

Service Manual

iPF6000 series

Canon

Application

This manual has been issued by Canon Inc. for qualified persons to learn technical theory, installation, maintenance, and repair of products. This manual covers all localities where the products are sold. For this reason, there may be information in this manual that does not apply to your locality.

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Caution

Use of this manual should be strictly supervised to avoid disclosure of confidential information.



Symbols Used

This documentation uses the following symbols to indicate special information:

Symbol	Description
	Indicates an item of a non-specific nature, possibly classified as Note, Caution, or Warning.
	Indicates an item requiring care to avoid electric shocks.
	Indicates an item requiring care to avoid combustion (fire).
	Indicates an item prohibiting disassembly to avoid electric shocks or problems.
	Indicates an item requiring disconnection of the power plug from the electric outlet.
 Memo	Indicates an item intended to provide notes assisting the understanding of the topic in question.
 REF.	Indicates an item of reference assisting the understanding of the topic in question.
	Provides a description of a service mode.
	Provides a description of the nature of an error indication.

The following rules apply throughout this Service Manual:

1. Each chapter contains sections explaining the purpose of specific functions and the relationship between electrical and mechanical systems with reference to the timing of operation.

In the diagrams,  represents the path of mechanical drive; where a signal name accompanies the symbol, the arrow  indicates the direction of the electric signal.

The expression "turn on the power" means flipping on the power switch, closing the front door, and closing the delivery unit door, which results in supplying the machine with power.

2. In the digital circuits, '1' is used to indicate that the voltage level of a given signal is "High", while '0' is used to indicate "Low". (The voltage value, however, differs from circuit to circuit.) In addition, the asterisk (*) as in "DRMD*" indicates that the DRMD signal goes on when '0'.

In practically all cases, the internal mechanisms of a microprocessor cannot be checked in the field. Therefore, the operations of the microprocessors used in the machines are not discussed: they are explained in terms of from sensors to the input of the DC controller PCB and from the output of the DC controller PCB to the loads.

The descriptions in this Service Manual are subject to change without notice for product improvement or other purposes, and major changes will be communicated in the form of Service Information bulletins.

All service persons are expected to have a good understanding of the contents of this Service Manual and all relevant Service Information bulletins and be able to identify and isolate faults in the machine."

1.5.11 Carriage	1- 44
1.5.12 Inside.....	1- 45
1.5.13 Inside.....	1- 46
1.6 Basic Operation	1- 47
1.6.1 Operation Panel	1- 47
1.6.2 Operation Panel	1- 49
1.6.3 Main Menu	1- 50
1.6.4 Display	1- 70
1.6.5 Main Menu	1- 71
1.6.6 Main Menu	1- 91
1.6.7 Menu.....	1- 111
1.6.8 Menu.....	1- 127
1.7 Safety and Precautions	1- 144
1.7.1 Safety Precautions.....	1- 144
1.7.1.1 Moving Parts	1- 144
1.7.1.2 Adhesion of Ink	1- 144
1.7.1.3 Electric Parts	1- 146
1.7.1.4 Electric Parts	1- 146
1.7.2 Other Precautions.....	1- 147
1.7.2.1 Printhead.....	1- 147
1.7.2.2 Printhead.....	1- 148
1.7.2.3 Ink Tank	1- 149
1.7.2.4 Handling the Printer	1- 149
1.7.2.5 Handling the Printer	1- 152
1.7.3 Precautions When Servicing Printer	1- 154
1.7.3.1 Notes on the Data Stored in the Printer	1- 154
1.7.3.2 Confirming the Firmware Version	1- 154
1.7.3.3 Precautions against Static Electricity	1- 154
1.7.3.4 Precautions for Disassembly/Reassembly.....	1- 154
1.7.3.5 Self-diagnostic Feature	1- 154
1.7.3.6 Disposing of the Lithium Battery	1- 154

Chapter 2 TECHNICAL REFERENCE

2.1 Basic Operation Outline	2- 1
2.1.1 Printer Diagram.....	2- 1
2.1.2 Printer Diagram.....	2- 2
2.1.3 Printer Diagram.....	2- 3
2.1.4 Printer Diagram.....	2- 4
2.1.5 Printer Diagram.....	2- 5
2.1.6 Printer Diagram.....	2- 6
2.1.7 Print Signal Sequence	2- 7
2.1.8 Print Signal Sequence	2- 8
2.1.9 Print Signal Sequence	2- 9
2.1.10 Print Driving.....	2- 10
2.1.11 Print Driving.....	2- 12
2.1.12 Print Driving.....	2- 14
2.2 Firmware	2- 16
2.2.1 Operation Sequence at Power-on.....	2- 16
2.2.2 Operation Sequence at Power-off.....	2- 17
2.2.3 Print Control	2- 18
2.2.4 Print Position Adjustment Function	2- 24
2.2.5 Head Management	2- 24
2.2.6 Printhead Overheating Protection Control	2- 24
2.2.7 Pause between Pages	2- 24
2.2.8 White Raster Skip	2- 24
2.2.9 Sleep Mode.....	2- 24

2.2.10 Hard Disk Drive.....	2- 24
2.3 Printer Mechanical System	2- 26
2.3.1 Outline	2- 26
2.3.1.1 Outline.....	2- 26
2.3.2 Ink Passage.....	2- 27
2.3.2.1 Ink Passage	2- 27
2.3.2.2 Ink Tank Unit.....	2- 29
2.3.2.3 Carriage Unit.....	2- 33
2.3.2.4 Printhead.....	2- 37
2.3.2.5 Purge Unit	2- 38
2.3.2.6 Maintenance Cartridge.....	2- 42
2.3.2.7 Air Flow	2- 44
2.3.3 Paper Path.....	2- 45
2.3.3.1 Outline.....	2- 45
2.3.3.2 Paper Path	2- 46
2.3.3.3 Cutter Unit.....	2- 56
2.4 Printer Electrical System.....	2- 58
2.4.1 Outline	2- 58
2.4.1.1 Overview	2- 58
2.4.1.2 Overview	2- 60
2.4.1.3 Overview	2- 62
2.4.1.4 Overview	2- 64
2.4.1.5 Overview	2- 66
2.4.2 Main Controller	2- 68
2.4.2.1 Main controller PCB components	2- 68
2.4.2.2 Main controller PCB components	2- 69
2.4.2.3 Main controller PCB components	2- 71
2.4.2.4 Main controller PCB components	2- 72
2.4.2.5 Main controller PCB components	2- 74
2.4.2.6 Main controller PCB components	2- 75
2.4.2.7 HDD expansion PCB components.....	2- 77
2.4.3 Carriage Relay PCB	2- 77
2.4.3.1 Carriage PCB components	2- 77
2.4.4 Motor Driver.....	2- 78
2.4.4.1 Roll feed unit PCB components.....	2- 78
2.4.5 Maintenance Cartridge Relay PCB.....	2- 78
2.4.5.1 Maintenance cartridge relay PCB components.....	2- 78
2.4.6 Power Supply	2- 79
2.4.6.1 Power supply block diagram	2- 79
2.5 Detection Functions with Sensors	2- 80
2.5.1 Sensors for covers.....	2- 80
2.5.2 Ink passage system.....	2- 81
2.5.3 Ink passage system.....	2- 83
2.5.4 Ink passage system.....	2- 85
2.5.5 Ink passage system.....	2- 87
2.5.6 Carriage system	2- 89
2.5.7 Paper path system.....	2- 91
2.5.8 Paper path system.....	2- 93
2.5.9 Others.....	2- 95

Chapter 3 INSTALLATION

3.1 Installation	3- 1
3.1.1 Making Pre-Checks	3- 1
3.1.1.1 Making Pre-Checks.....	3- 1
3.1.2 Unpacking and Installation	3- 1
3.1.2.1 Unpacking and Installation.....	3- 1
3.1.2.2 Installing the Stand	3- 10
3.1.3 Checking the Images/Operations	3- 19

3.1.3.1 Checking the Image and Operation	3- 19
3.2 Transporting the Printer	3- 20
3.2.1 Transporting the Printer	3- 20
3.2.1.1 Transporting the Printer	3- 20
3.2.1.2 Transporting the Printer	3- 22
3.2.2 Reinstalling the Printer	3- 24
3.2.2.1 Reinstalling the Printer	3- 24

Chapter 4 DISASSEMBLY/REASSEMBLY

4.1 Service Parts	4- 1
4.1.1 Service Parts	4- 1
4.2 Disassembly/Reassembly	4- 2
4.2.1 Disassembly/Reassembly	4- 2
4.3 Points to Note on Disassembly and Reassembly	4- 2
4.3.1 Note: Items that should never be disassembled	4- 2
4.3.2 Moving the carriage manually	4- 2
4.3.3 Units requiring draining of ink	4- 2
4.3.4 External Covers	4- 4
4.3.5 Driving Unit	4- 17
4.3.6 Cutter	4- 18
4.3.7 Cutter	4- 21
4.3.8 Carriage Unit	4- 24
4.3.9 Carriage Unit	4- 32
4.3.10 Feeder Unit	4- 40
4.3.11 Feeder Unit	4- 43
4.3.12 Roll Feed Unit	4- 46
4.3.13 Purge Unit	4- 49
4.3.14 Waste Ink Collection Unit	4- 52
4.3.15 Ink Tank Unit	4- 56
4.3.16 Ink Tank Unit	4- 59
4.3.17 Head Management Sensor	4- 62
4.3.18 Multi Sensor	4- 62
4.3.19 Multi Sensor	4- 63
4.3.20 PCBs	4- 64
4.3.21 PCBs	4- 67
4.3.22 PCBs	4- 72
4.3.23 Opening the Cap/Moving the Wiper Unit	4- 77
4.3.24 Opening the Cap/Moving the Wiper Unit	4- 79
4.3.25 Opening/Closing the Ink Supply Valve	4- 81
4.3.26 Draining the Ink	4- 82
4.4 Applying the Grease	4- 83
4.4.1 Applying the Grease	4- 83
4.5 Adjustment and Setup Items	4- 87
4.5.1 Adjustment Item List	4- 87
4.5.2 Adjustment Item List	4- 87
4.5.3 Procedure after Replacing the Carriage Unit or Multi Sensor	4- 87
4.5.4 Procedure after Replacing the Carriage Unit or Multi Sensor	4- 90
4.5.5 Procedure after Replacing the Head Management Sensor	4- 93

Chapter 5 MAINTENANCE

5.1 Periodic Replacement Parts	5- 1
5.1.1 Periodic Replacement Parts	5- 1
5.2 Consumable Parts	5- 1
5.2.1 Consumable Parts	5- 1

5.2.2 Consumable Parts	5- 2
5.2.3 Consumable Parts	5- 3
5.2.4 Consumable Parts	5- 4
5.3 Periodic Maintenance	5- 5
5.3.1 Periodic Maintenance	5- 5
5.3.2 Periodic Maintenance	5- 8
5.3.3 Periodic Maintenance	5- 11

Chapter 6 TROUBLESHOOTING

6.1 Troubleshooting	6- 1
6.1.1 Outline	6- 1
6.1.1.1 Outline of Troubleshooting	6- 1
6.1.2 Troubleshooting When Warnings Occur	6- 1
6.1.2.1 Ink Lvl: Chk XX (1000,1001,1002,1003,1004,1005,1006,1008,1009,100A,100B,100C)	6- 1
6.1.2.2 MTCart Full Soon (1100)	6- 1
6.1.2.3 Mist Full Soon (1101)	6- 1
6.1.2.4 GARO W12xx: xx stands for digits (1221,1222,1223,1225,1231,1232,1233,1234,1235)	6- 1
6.1.2.5 Feed Limit... (100F)	6- 2
6.1.2.6 Check printed document.(1010)	6- 2
6.1.3 Troubleshooting When Errors Occur	6- 2
6.1.3.1 01800500-1012/01800500-1013 Defective printhead nozzle	6- 2
6.1.3.2 03010000-200C/03010000-2017/03010000-2018/03016000-2010 Multi sensor error	6- 2
6.1.3.3 03010000-200D Cut sheet end cannot be detected	6- 2
6.1.3.4 03010000-2820/03010000-2821/03010000-2822/03010000-2823/03130031-2F32/03010000-2F33 Adjustment error	6- 3
6.1.3.5 03010000-2E1F/03060000-2E14/03061000-2E15/03060000-2E16/03060200-2E03/03060200-2E0B/03060A00-2E00/ 03060A00-2E01/03860002-2E0A Path mismatch error	6- 3
6.1.3.6 03010000-2E25/03010000-2E27 Paper feed/delivery jam error	6- 3
6.1.3.7 03030000-2E21 IEEE1394 error	6- 4
6.1.3.8 03060A00-2E0E Roll media unit uninstallation	6- 4
6.1.3.9 03060A00-2E1B Roll media end error	6- 4
6.1.3.10 03130031-291B Lift home position error	6- 4
6.1.3.11 03130031-291D Supr cam sensor error	6- 5
6.1.3.12 03130031-2E23 Cutter unit breakdown	6- 5
6.1.3.13 03130031-2F13 A/D Converter external trigger output stopped	6- 5
6.1.3.14 03130031-2F14 ASIC Register cannot be written	6- 5
6.1.3.15 03130031-2F16 Mist fan error	6- 5
6.1.3.16 03130031-2F17 Suction fan error	6- 6
6.1.3.17 03130031-2F20/03130031-2F28/03130031-2F22/03130031-2F23 Defective sensor in purge unit	6- 6
6.1.3.18 03130031-2F24 Cutter drive time-out error	6- 6
6.1.3.19 03130031-2F25 Carriage home position error	6- 6
6.1.3.20 03130031-2F26/03130031-2F27 Carriage motor error	6- 7
6.1.3.21 03130031-2F2A Feed roller home position error	6- 7
6.1.3.22 03130031-2F2D The cassette cannot work	6- 7
6.1.3.23 03130031-2F2E Roll drive time-out error	6- 7
6.1.3.24 03130031-2F3A Valve open/close error	6- 8
6.1.3.25 03180003-2E22 MIT error	6- 8
6.1.3.26 03180101-2E17 Cassette uninstallation	6- 8
6.1.3.27 03800200-2802/03800400-2803/03800300-2801/03800201-280A/03800401-280B/03800301-2809/03800200-2804/ 03800202-2807 Printhead error	6- 8
6.1.3.28 03810101-2501/03810102-2502/03810103-2503/03810104-2500/03810105-2508/03810106-2506/03810107-250A/ 03810108-250C/03810109-250B/03810112-2504/03810113-2505/03810115-2509 No ink error	6- 9
6.1.3.29 03830101-2521/03830104-2520/03830102-2522/03830103-2523/03830112-2524/03830113-2525/03830106-2526/ 03830105-2528/03830115-2529/03830107-252A/03830109-252B/03830108-252C Ink tank is not installed.(This error occurs when the ink tank is replaced.)	6- 9
6.1.3.30 03830201-2541/03800204-2540/03830202-2542/03830203-2543/03830212-2544/03830213-2545/03830206-2546/ 03830205-2548/03830215-2549/03830207-254A/03830209-254B/03830208-254C Invalid ink tank ID	6- 9
6.1.3.31 03830301-2561/03830304-2560/03830302-2562/03830303-2563/03830312-2564/03830313-2565/03830306-2566/ 03830305-2568/03830305-2568/03830315-2569/03830307-256A/03830309-256B/03830308-256C Ink tank EEPROM error ...	6- 9
6.1.3.32 03841001-2819/03841201-2816/03841201-2817/03841101-2818/01841001-281B Maintenance cartridge error	6- 9
6.1.3.33 03861001-2405/03861001-2406 Borderless printing error	6- 10

6.1.3.34 03862000-2E09 Insufficient roll media error	6- 10
6.1.3.35 03870001-2015 Cut error	6- 10
6.1.4 Troubleshooting When Service Call Errors Occur	6- 10
6.1.4.1 Outline.....	6- 10
6.1.4.2 E141-4046 Recovery system rotation count reached 50,000.....	6- 11
6.1.4.3 E144-4047 Supply system's count error	6- 11
6.1.4.4 E146-4001 Borderless/idle ejection/mist collection count full	6- 11
6.1.4.5 E194-404A Non-discharge detection count error.....	6- 11
6.1.4.6 E196-4040/E196-4041/E196-4042/E196-4045/E196-4049 main controller PCB error	6- 11
6.1.4.7 E198-401C/E198-401D/E198-401E RTC error.....	6- 11
6.2 Location of Connectors and Pin Arrangement	6- 12
6.2.1 Main controller PCB.....	6- 12
6.2.2 Main controller PCB.....	6- 24
6.2.3 Main controller PCB.....	6- 35
6.2.4 Main controller PCB.....	6- 46
6.2.5 Main controller PCB.....	6- 57
6.2.6 Carriage PCB.....	6- 68
6.2.7 Power supply	6- 77
6.2.8 Power supply	6- 78
6.2.9 Roll feed unit PCB.....	6- 79
6.3 Version Up.....	6- 80
6.3.1 Firmware Update Tool	6- 80
6.3.2 Firmware Update Tool	6- 81
6.4 Service Tools.....	6- 82
6.4.1 Tool List	6- 82

Chapter 7 SERVICE MODE

7.1 Service Mode	7- 1
7.1.1 Service Mode Operation	7- 1
7.1.2 Service Mode Operation	7- 2
7.1.3 Map of the Service Mode	7- 3
7.1.4 Map of the Service Mode	7- 8
7.1.5 Map of the Service Mode	7- 13
7.1.6 Map of the Service Mode	7- 18
7.1.7 Map of the Service Mode	7- 25
7.1.8 Details of Service Mode	7- 32
7.1.9 Details of Service Mode	7- 40
7.1.10 Details of Service Mode	7- 48
7.1.11 Details of Service Mode	7- 56
7.1.12 Details of Service Mode	7- 71
7.1.13 Sample Printout.....	7- 86
7.1.14 e-Maintenance/imageWARE Remote	7- 90
7.1.15 Viewing PRINT INF	7- 100
7.1.16 Viewing PRINT INF	7- 114
7.2 Special Mode.....	7- 128
7.2.1 Special Modes for Servicing	7- 128
7.2.2 Special Modes for Servicing	7- 128

Chapter 8 ERROR CODE

8.1 Outline	8- 1
8.1.1 Outline.....	8- 1
8.1.2 Outline.....	8- 2
8.2 Warning Table	8- 3
8.2.1 Warnings.....	8- 3
8.2.2 Warnings.....	8- 4

8.2.3 Warnings	8- 5
8.3 Error Table.....	8- 8
8.3.1 Error Code List	8- 8
8.3.2 Error Code List	8- 18
8.3.3 Errors.....	8- 29
8.4 Service Call Table.....	8- 40
8.4.1 Service Call Errors.....	8- 40
8.4.2 Service Call Errors.....	8- 40
8.4.3 Service Call Errors.....	8- 41

Chapter 1 PRODUCT DESCRIPTION

Contents

1.1 Product Overview	1-1
1.1.1 Product Overview	1-1
1.1.2 Product Overview	1-2
1.1.3 Product Overview	1-3
1.1.4 Product Overview	1-4
1.1.5 Product Overview	1-5
1.2 Features	1-6
1.2.1 Features	1-6
1.2.2 Features	1-6
1.2.3 Features	1-6
1.2.4 Features	1-7
1.2.5 Features	1-7
1.2.6 Features	1-7
1.2.7 Printhead	1-8
1.2.8 Ink Tank	1-8
1.2.9 Ink Tank	1-9
1.2.10 Cutter	1-10
1.2.11 Roll Feed Unit	1-10
1.2.12 Stand	1-11
1.2.13 Hard Disk Drive	1-11
1.2.14 Hard Disk Drive	1-11
1.2.15 IEEE1394 (FireWire) Board	1-12
1.2.16 Consumables	1-13
1.2.17 Consumables	1-14
1.2.18 Consumables	1-15
1.2.19 Consumables	1-16
1.3 Product Specifications	1-17
1.3.1 Product Specifications	1-17
1.3.2 Product Specifications	1-18
1.3.3 Product Specifications	1-20
1.3.4 Product Specifications	1-22
1.3.5 Product Specifications	1-24
1.3.6 Product Specifications	1-26
1.4 Detailed Specifications	1-28
1.4.1 Print Speed and Direction	1-28
1.4.2 Interface Specifications	1-34
1.4.3 Interface Specifications	1-35
1.4.4 Interface Specifications	1-36
1.5 Names and Functions of Components	1-37
1.5.1 Front	1-37
1.5.2 Front	1-38
1.5.3 Rear	1-39
1.5.4 Rear	1-39
1.5.5 Top Cover (Inside)	1-40
1.5.6 Top Cover (Inside)	1-40
1.5.7 Manual Loading Area	1-41
1.5.8 Manual Loading Area	1-42
1.5.9 Roll Feed Unit Cover (Inside)	1-43
1.5.10 Roll Feed Unit Cover (Inside)	1-43
1.5.11 Carriage	1-44

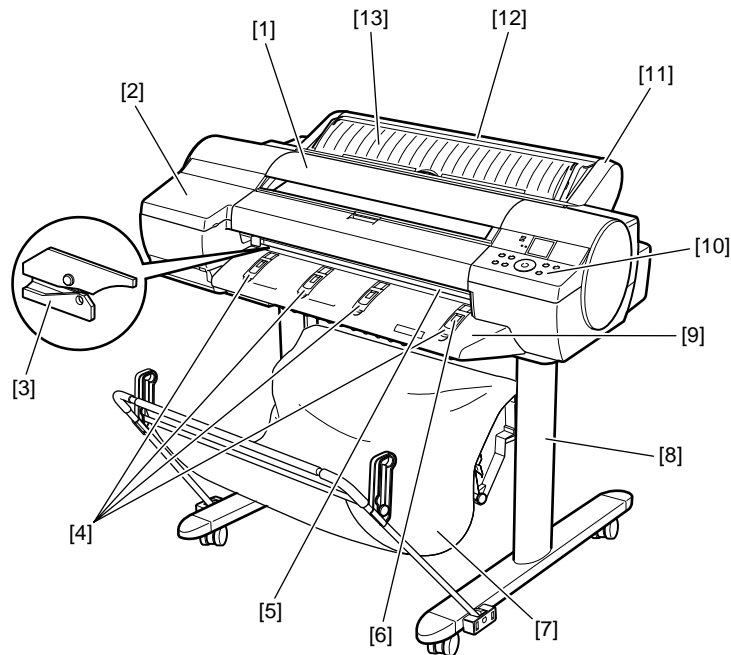
1.5.12 Inside.....	1-45
1.5.13 Inside.....	1-46
1.6 Basic Operation	1-47
1.6.1 Operation Panel.....	1-47
1.6.2 Operation Panel.....	1-49
1.6.3 Main Menu.....	1-50
1.6.4 Display	1-70
1.6.5 Main Menu.....	1-71
1.6.6 Main Menu.....	1-91
1.6.7 Menu	1-111
1.6.8 Menu	1-127
1.7 Safety and Precautions	1-144
1.7.1 Safety Precautions.....	1-144
1.7.1.1 Moving Parts.....	1-144
1.7.1.2 Adhesion of Ink	1-144
1.7.1.3 Electric Parts	1-146
1.7.1.4 Electric Parts	1-146
1.7.2 Other Precautions.....	1-147
1.7.2.1 Printhead	1-147
1.7.2.2 Printhead	1-148
1.7.2.3 Ink Tank.....	1-149
1.7.2.4 Handling the Printer.....	1-149
1.7.2.5 Handling the Printer.....	1-152
1.7.3 Precautions When Servicing Printer	1-154
1.7.3.1 Notes on the Data Stored in the Printer	1-154
1.7.3.2 Confirming the Firmware Version.....	1-154
1.7.3.3 Precautions against Static Electricity	1-154
1.7.3.4 Precautions for Disassembly/Reassembly	1-154
1.7.3.5 Self-diagnostic Feature	1-154
1.7.3.6 Disposing of the Lithium Battery	1-154

1.1 Product Overview

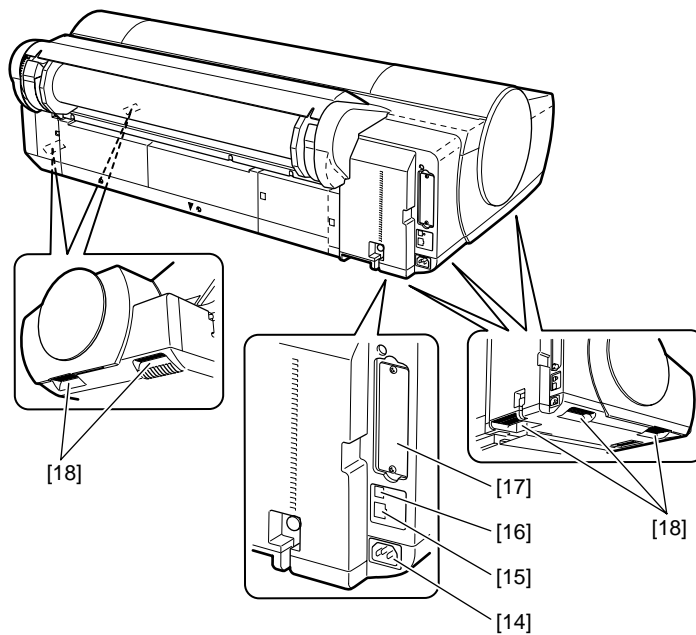
1.1.1 Product Overview

iPF6100

This printer is capable of printing on A4- to A1-size cut sheets and its maximum print width is 24 inches. This printer is a desktop large-format printer twelve-colors (pigment-based colors) printer that can be used to print office documents as well as handy POP and posters. An auto roll feed unit is equipped for printing on roll media.



F-1-1



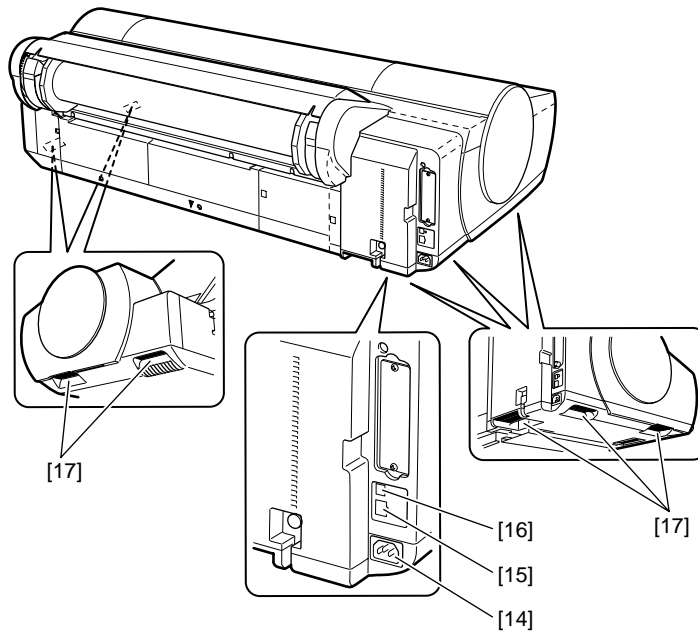
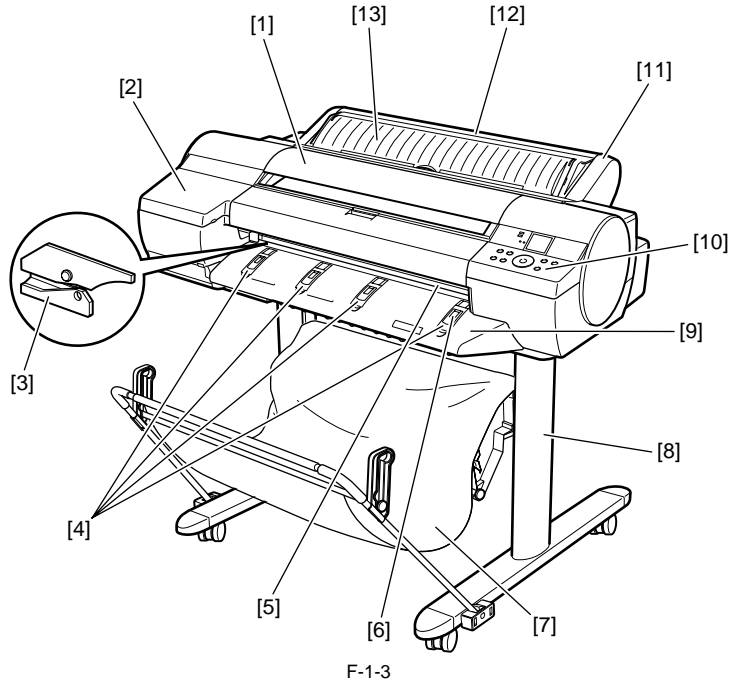
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T-1-1

- | | |
|-----------------------------|---------------------------|
| [1] Top Cover | [10] Operation Panel |
| [2] Ink Tank Cover | [11] Roll Feed Unit |
| [3] Cutter | [12] Roll Feed Unit Cover |
| [4] Front Manual Feed Guide | [13] Manual Feed Cover |
| [5] Paper Eject Slot | [14] Power Connector |
| [6] Paper Alignment Line | [15] Ethernet Connector |
| [7] Basket | [16] USB Port |
| [8] Stand | [17] Expansion Board Slot |
| [9] Output Guide | [18] Carrying Handle |

1.1.2 Product Overview

iPF6200

This printer is capable of printing on A4- to A1-size cut sheets and its maximum print width is 24 inches. This printer is a desktop large-format printer twelve-colors (pigment-based colors) printer that can be used to print office documents as well as handy POP and posters. An auto roll feed unit is equipped for printing on roll media.



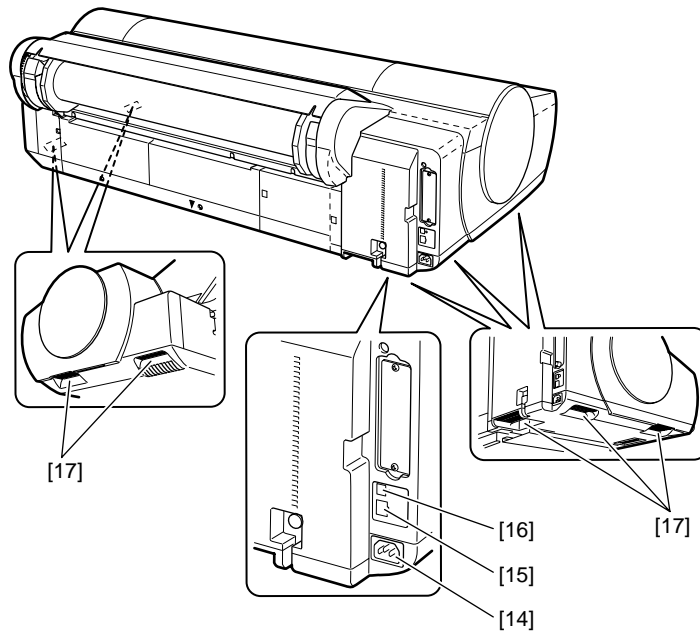
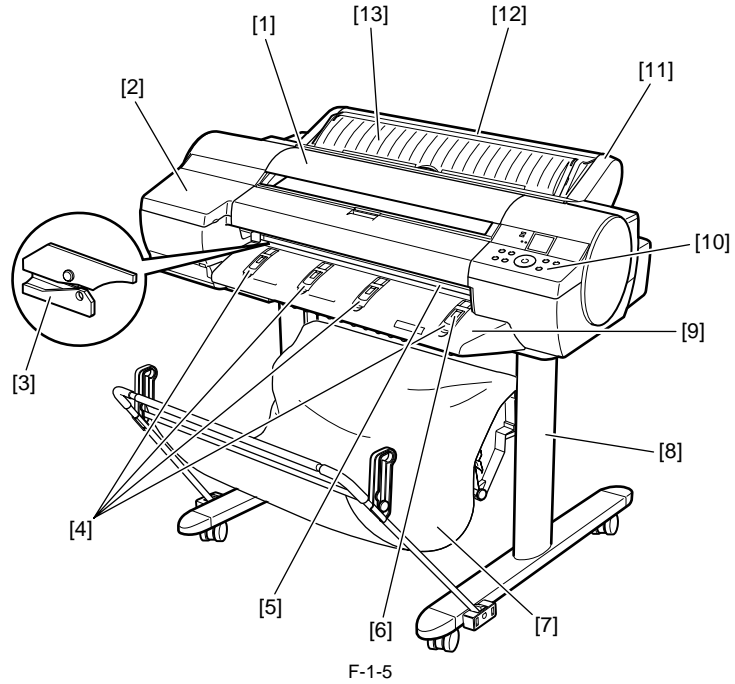
T-1-2

- | | |
|-----------------------------|---------------------------|
| [1] Top Cover | [10] Operation Panel |
| [2] Ink Tank Cover | [11] Roll Feed Unit |
| [3] Cutter | [12] Roll Feed Unit Cover |
| [4] Front Manual Feed Guide | [13] Manual Feed Cover |
| [5] Paper Eject Slot | [14] Power Connector |
| [6] Paper Alignment Line | [15] Ethernet Connector |
| [7] Basket | [16] USB Port |
| [8] Stand | [17] Carrying Handle |
| [9] Output Guide | |

1.1.3 Product Overview

iPF6000S

This printer is capable of printing on A4- to A1-size cut sheets and its maximum print width is 24 inches. This printer is a desktop large-format printer eight-colors (pigment-based colors) printer that can be used to print office documents as well as handy POP and posters. An auto roll feed unit is equipped for printing on roll media.



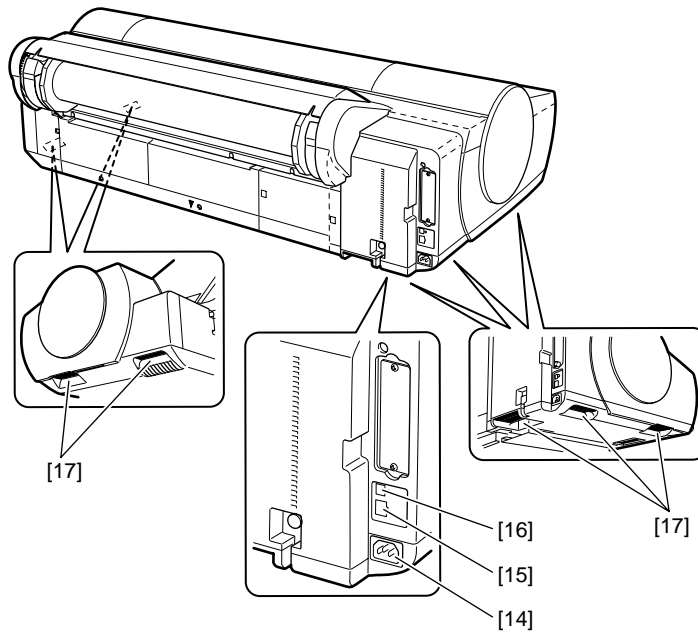
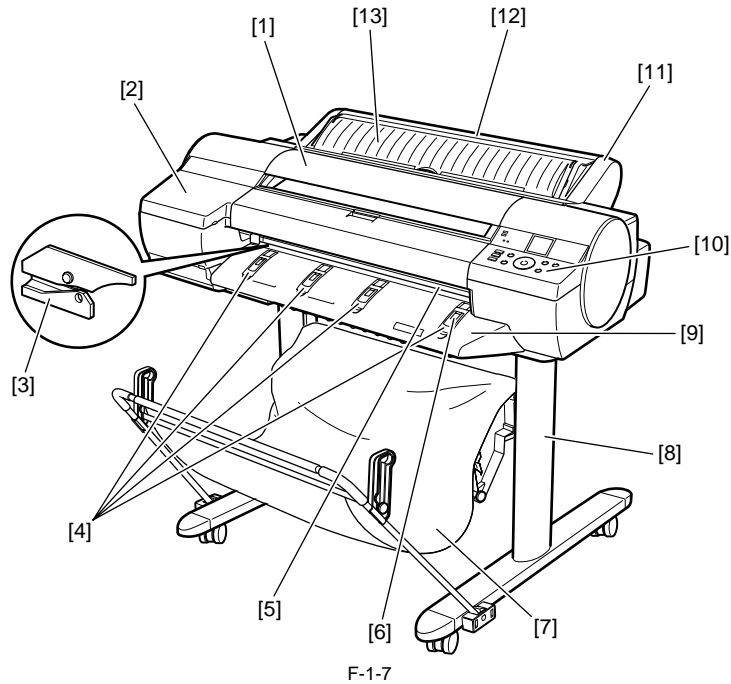
T-1-3

- | | |
|-----------------------------|---------------------------|
| [1] Top Cover | [10] Operation Panel |
| [2] Ink Tank Cover | [11] Roll Feed Unit |
| [3] Cutter | [12] Roll Feed Unit Cover |
| [4] Front Manual Feed Guide | [13] Manual Feed Cover |
| [5] Paper Eject Slot | [14] Power Connector |
| [6] Paper Alignment Line | [15] Ethernet Connector |
| [7] Basket | [16] USB Port |
| [8] Stand | [17] Carrying Handle |
| [9] Output Guide | |

1.1.4 Product Overview

iPF6300 / iPF6350

This printer is capable of printing on A4- to A1-size cut sheets and its maximum print width is 24 inches. This printer is a desktop large-format printer twelve-colors (pigment-based colors) printer that can be used to print office documents as well as handy POP and posters. An auto roll feed unit is equipped for printing on roll media.

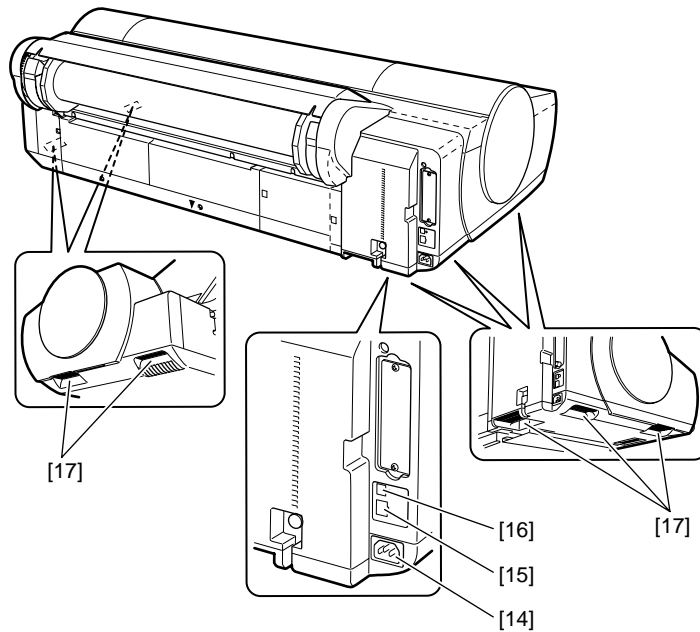
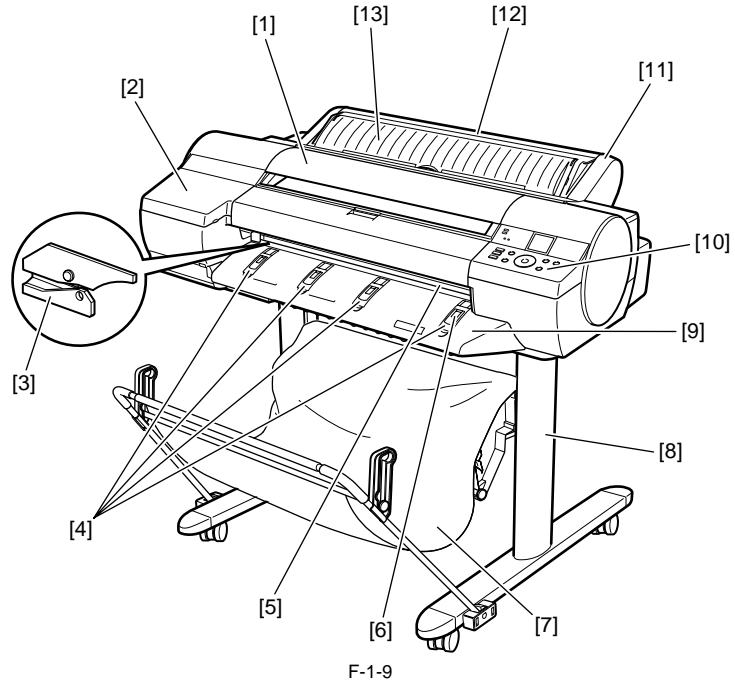


- | | |
|-----------------------------|---------------------------|
| [1] Top Cover | [10] Operation Panel |
| [2] Ink Tank Cover | [11] Roll Feed Unit |
| [3] Cutter | [12] Roll Feed Unit Cover |
| [4] Front Manual Feed Guide | [13] Manual Feed Cover |
| [5] Paper Eject Slot | [14] Power Connector |
| [6] Paper Alignment Line | [15] Ethernet Connector |
| [7] Basket | [16] USB Port |
| [8] Stand | [17] Carrying Handle |
| [9] Output Guide | |

1.1.5 Product Overview

iPF6300S

This printer is capable of printing on A4- to A1-size cut sheets and its maximum print width is 24 inches. This printer is a desktop large-format printer eight-colors (pigment-based colors) printer that can be used to print office documents as well as handy POP and posters. An auto roll feed unit is equipped for printing on roll media.



F-1-10
T-1-5

- | | |
|-----------------------------|---------------------------|
| [1] Top Cover | [10] Operation Panel |
| [2] Ink Tank Cover | [11] Roll Feed Unit |
| [3] Cutter | [12] Roll Feed Unit Cover |
| [4] Front Manual Feed Guide | [13] Manual Feed Cover |
| [5] Paper Eject Slot | [14] Power Connector |
| [6] Paper Alignment Line | [15] Ethernet Connector |
| [7] Basket | [16] USB Port |
| [8] Stand | [17] Carrying Handle |
| [9] Output Guide | |

1.2 Features

1.2.1 Features

iPF6100

- A new 12-color pigmented ink formulation featuring additional three types of special-color inks (red, green, blue) and two types of gray ink varying in grayscale, "Lucia" prints on a variety of grades of paper, from glossy paper to art, mat and sign, with a high degree of coloring.
- Two types of black ink, vividly glossy "black ink" and "mat black ink" produce a higher quality, are loaded concurrently and are selected automatically to suit paper types. There is no need to manually change inks.
- BK (black)/GY (gray)/PGY (photo gray) ink are mainly used to offer a drastically enhanced power of halftoning, achieving an equivalent of the high picture quality of monochrome silver-salt films.
- One-inch wide printhead having 2,560 nozzles per color, which are twice as many as the those of the existing models. High-density printhead technology "FINE" that can satisfy both of beautiful and fast printing requirements of a high order is employed for accurate ejection of ultrasmall 4-pl drops of ink to the target positions. Prints with 2400 x 1200 dpi resolution can be made at a high speed.
- Imaging processor "L-COA" incorporated for high-speed image data processing. High-speed processing of 12-color, 2-bit large-size images and printer control for high-accuracy operation of high-density double head can be performed with a single chip.
- Support for roll media, manual feed from front, and manual feed from top (3-way paper supply). A maximum of 1.5 mm thick of paper (POP Board) can be manually fed from the front.
- Borderless printing on and auto cutting of roll media.
- Standard support for 10Base-T/100Base-TX. Standard support for USB 2.0 Hi-Speed. Optional support for IEEE1394.
- Data scanned using CanoScan can be easily printed on large-size paper just like a dedicated copier. Just pressing the Start button allows you to blow up an original of up to A3 size in collaboration with Canon Image RUNNER.
- Support for remote notification utility which is used to send an E-mail when an alarm or error occurs.

Functional enhancements new to this model include:

- Higher image quality
- Use of abrasion-resistant inks (MBK, BK, PGY, GY) offers enhanced image durability.
- The color calibration feature adds to the faithfulness of color reproduction.
- Enhanced ease of operation

A 160-by-128-dot-large LCD, coupled with the new [Paper Load/Eject] button, offers drastically enhanced ease of operation.

The cassette feature has been removed in the interest of users who do not require a cassette capability, resulting in a downsized printer geometry and better roll media accessibility.

1.2.2 Features

iPF6200

- A new 12-color pigmented ink formulation featuring additional three types of special-color inks (red, green, blue) and two types of gray ink varying in grayscale, "Lucia" prints on a variety of grades of paper, from glossy paper to art, mat and sign, with a high degree of coloring.
- Two types of black ink, vividly glossy "black ink" and "mat black ink" produce a higher quality, are loaded concurrently and are selected automatically to suit paper types. There is no need to manually change inks.
- BK (black)/GY (gray)/PGY (photo gray) ink are mainly used to offer a drastically enhanced power of halftoning, achieving an equivalent of the high picture quality of monochrome silver-salt films.
- Use of abrasion-resistant inks (MBK, BK, PGY, GY) offers enhanced image durability.
- The color calibration feature adds to the faithfulness of color reproduction.
- A 160-by-128-dot-large LCD is equipped.
- One-inch wide printhead having 2,560 nozzles per color, which are twice as many as the those of the existing models. High-density printhead technology "FINE" that can satisfy both of beautiful and fast printing requirements of a high order is employed for accurate ejection of ultrasmall 4-pl drops of ink to the target positions. Prints with 2400 x 1200 dpi resolution can be made at a high speed.
- Imaging processor "L-COA" incorporated for high-speed image data processing. High-speed processing of 12-color, 2-bit large-size images and printer control for high-accuracy operation of high-density double head can be performed with a single chip.
- Support for roll media, manual feed from front, and manual feed from top (3-way paper supply). A maximum of 1.5 mm thick of paper (POP Board) can be manually fed from the front.
- Borderless printing on and auto cutting of roll media.
- Standard support for 10Base-T/100Base-TX. Standard support for USB 2.0 Hi-Speed.
- Data scanned using CanoScan can be easily printed on large-size paper just like a dedicated copier. Just pressing the Start button allows you to blow up an original of up to A3 size in collaboration with Canon Image RUNNER.
- Support for remote notification utility which is used to send an E-mail when an alarm or error occurs.

Functional enhancements new to this model include:

- Hard disk drive mounted for greater ease of job management.

1.2.3 Features

iPF6000S

- Two types of black ink, vividly glossy "black ink" and "mat black ink" produce a higher quality, are loaded concurrently and are selected automatically to suit paper types. There is no need to manually change inks.
- The color calibration feature adds to the faithfulness of color reproduction.
- A 160-by-128-dot-large LCD is equipped.
- One-inch wide printhead having 2,560 nozzles per color, which are twice as many as the those of the existing models. High-density printhead technology "FINE" that can satisfy both of beautiful and fast printing requirements of a high order is employed for accurate ejection of ultrasmall 4-pl drops of ink to the target positions. Prints with 2400 x 1200 dpi resolution can be made at a high speed.
- Imaging processor "L-COA" incorporated for high-speed image data processing. High-speed processing of 8-color, 2-bit large-size images and printer control for high-accuracy operation of high-density double head can be performed with a single chip.
- Support for roll media, manual feed from front, and manual feed from top (3-way paper supply). A maximum of 1.5 mm thick of paper (POP Board) can be manually fed from the front.
- Borderless printing on and auto cutting of roll media.
- Standard support for 10Base-T/100Base-TX. Standard support for USB 2.0 Hi-Speed.
- Data scanned using CanoScan can be easily printed on large-size paper just like a dedicated copier. Just pressing the Start button allows you to blow up an original of up to A3 size in collaboration with Canon Image RUNNER.
- Support for remote notification utility which is used to send an E-mail when an alarm or error occurs.
- Hard disk drive mounted for greater ease of job management and for driving on night time.

Functional enhancements new to this model include:

- High printing productivity
- The eight-color pigment ink system offers enhanced printing productivity.

1.2.4 Features

iPF6300

- Two types of black ink, vividly glossy "black ink" and "mat black ink" produce a higher quality, are loaded concurrently and are selected automatically to suit paper types. There is no need to manually change inks.
- BK (black)/GY (gray)/PGY (photo gray) ink are mainly used to offer a drastically enhanced power of halftoning, achieving an equivalent of the high picture quality of monochrome silver-salt films.
- The color calibration feature adds to the faithfulness of color reproduction.
- A 160-by-128-dot-large LCD is equipped.
- One-inch wide printhead having 2,560 nozzles per color. High-density printhead technology "FINE" that can satisfy both of beautiful and fast printing requirements of a high order is employed for accurate ejection of ultrasmall 4-pl drops of ink to the target positions. Prints with 2400 x 1200 dpi resolution can be made at a high speed.
- Imaging processor "L-COA" incorporated for high-speed image data processing. High-speed processing of 12-color, 2-bit large-size images and printer control for high-accuracy operation of high-density double head can be performed with a single chip.
- Support for roll media, manual feed from front, and manual feed from top (3-way paper supply). A maximum of 1.5 mm thick of paper (POP Board) can be manually fed from the front.
- Borderless printing on and auto cutting of roll media.
- Standard support for USB 2.0 Hi-Speed.
- Data scanned using CanoScan can be easily printed on large-size paper just like a dedicated copier. Just pressing the Start button allows you to blow up an original of up to A3 size in collaboration with Canon Image RUNNER.
- Hard disk drive mounted for greater ease of job management.

Functional enhancements new to this model include:

- A newly developed 12-color pigment ink system "LUCIA EX" is used to improve rubfastness, chromogenic effect, and bronzing resistance, ensuring higher-grade printing.
- A new mode has been added to improve control of the optimum ink droplet landing order (when in the mode for the highest image quality) and the ink droplet landing accuracy, ensuring higher-grade printing.
- The network interface (10Base-T/100Base-TX/1000Base-T) compatible with 1000Base-T (Gigabit Ethernet) comes standard with the printer to cope with the high-speed LAN environment.
- A printhead having nozzles (I-shaped nozzle) with a new shape reduces ink mist, ensuring superfine printing.
- Compatibility with e-maintenance/imageWARE Remote allows centralized management of customer's printer information.
- The newly designed operation panel allows you to operate the printer intuitively.

1.2.5 Features

iPF6350

- Two types of black ink, vividly glossy "black ink" and "mat black ink" produce a higher quality, are loaded concurrently and are selected automatically to suit paper types. There is no need to manually change inks.
- BK (black)/GY (gray)/PGY (photo gray) ink are mainly used to offer a drastically enhanced power of halftoning, achieving an equivalent of the high picture quality of monochrome silver-salt films.
- The color calibration feature adds to the faithfulness of color reproduction.
- A 160-by-128-dot-large LCD is equipped.
- One-inch wide printhead having 2,560 nozzles per color. High-density printhead technology "FINE" that can satisfy both of beautiful and fast printing requirements of a high order is employed for accurate ejection of ultrasmall 4-pl drops of ink to the target positions. Prints with 2400 x 1200 dpi resolution can be made at a high speed.
- Imaging processor "L-COA" incorporated for high-speed image data processing. High-speed processing of 12-color, 2-bit large-size images and printer control for high-accuracy operation of high-density double head can be performed with a single chip.
- Support for roll media, manual feed from front, and manual feed from top (3-way paper supply). A maximum of 1.5 mm thick of paper (POP Board) can be manually fed from the front.
- Borderless printing on and auto cutting of roll media.
- Standard support for USB 2.0 Hi-Speed.
- Data scanned using CanoScan can be easily printed on large-size paper just like a dedicated copier. Just pressing the Start button allows you to blow up an original of up to A3 size in collaboration with Canon Image RUNNER.
- Hard disk drive mounted for greater ease of job management.

Functional enhancements new to this model include:

- A newly developed 12-color pigment ink system "LUCIA EX" is used to improve rubfastness, chromogenic effect, and bronzing resistance, ensuring higher-grade printing.
- A new mode has been added to improve control of the optimum ink droplet landing order (when in the mode for the highest image quality) and the ink droplet landing accuracy, ensuring higher-grade printing.
- The network interface (10Base-T/100Base-TX/1000Base-T) compatible with 1000Base-T (Gigabit Ethernet) comes standard with the printer to cope with the high-speed LAN environment.
- A printhead having nozzles (I-shaped nozzle) with a new shape reduces ink mist, ensuring superfine printing.
- Compatibility with e-maintenance/imageWARE Remote allows centralized management of customer's printer information.
- The newly designed operation panel allows you to operate the printer intuitively.

1.2.6 Features

iPF6300S

- Two types of black ink, vividly glossy "black ink" and "mat black ink" produce a higher quality, are loaded concurrently and are selected automatically to suit paper types. There is no need to manually change inks.
- The color calibration feature adds to the faithfulness of color reproduction.
- A 160-by-128-dot-large LCD is equipped.
- One-inch wide printhead having 2,560 nozzles per color. High-density printhead technology "FINE" that can satisfy both of beautiful and fast printing requirements of a high order is employed for accurate ejection of ultrasmall 4-pl drops of ink to the target positions. Prints with 2400 x 1200 dpi resolution can be made at a high speed.
- Imaging processor "L-COA" incorporated for high-speed image data processing. High-speed processing of 8-color, 2-bit large-size images and printer control for high-accuracy operation of high-density double head can be performed with a single chip.
- Support for roll media, manual feed from front, and manual feed from top (3-way paper supply). A maximum of 1.5 mm thick of paper (POP Board) can be manually fed from the front.
- Borderless printing on and auto cutting of roll media.
- Standard support for USB 2.0 Hi-Speed.
- Data scanned using CanoScan can be easily printed on large-size paper just like a dedicated copier. Just pressing the Start button allows you to blow up an original

of up to A3 size in collaboration with Canon Image RUNNER.
- Hard disk drive mounted for greater ease of job management.

Functional enhancements new to this model include:

- A newly developed 8-color pigment ink system "LUCIA EX" is used to improve robustness, chromogenic effect and bronzing resistance, ensuring higher-grade printing while keeping the high quality and high productivity.
- A new mode has been added to improve control of the optimum ink droplet landing order (when in the mode for the highest image quality) and the ink droplet landing accuracy, ensuring higher-grade printing.
- The network interface (10Base-T/100Base-TX/1000Base-T) compatible with 1000Base-T (Gigabit Ethernet) comes standard with the printer to cope with the high-speed LAN environment.
- A printhead having nozzles (I-shaped nozzle) with a new shape reduces ink mist, ensuring superfine printing.
- Compatibility with e-maintenance/imageWARE Remote allows centralized management of customer's printer information.
- The newly designed operation panel allows you to operate the printer intuitively.
- The symmetrical order of the printhead's ink nozzle color reduces uneven print.

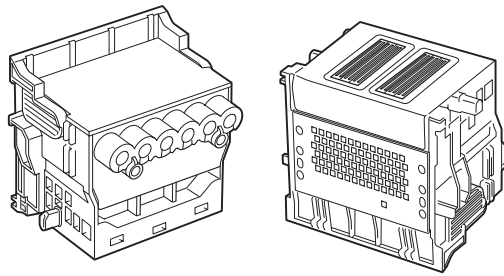
1.2.7 Printhead

iPF6100 / iPF6200 / iPF6000S / iPF6300 / iPF6350 / iPF6300S

Printhead set on the carriage is a 6-color integral disposable type.

On the printhead, two rows of 1,280 nozzles (total 2,560 nozzles) are arranged in a staggered pattern. .

If print quality does not improve despite carrying out the specified cleaning, the printhead must be replaced with a new one.



F-1-11

1.2.8 Ink Tank

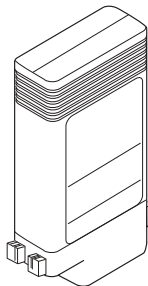
iPF6100 / iPF6200 / iPF6300 / iPF6350

The ink tank is disposable.

There are twelve pigment-based ink colors (matte black,black,photo cyan,cyan,photo magenta,magenta,yellow,red,blue,green,gray,and photo gray).

This printer features a mechanism by which only the correct color ink tank will fit in the given slot.

When the message No Ink is displayed, replace the ink tank with a new one. Also, each ink tank should generally be replaced six months after you have opened the package.



F-1-12

1.2.9 Ink Tank

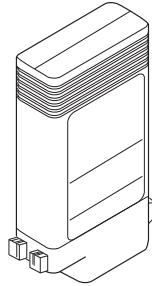
iPF6000S / iPF6300S

The ink tank is disposable.

There are eight pigment-based ink colors (matte black,black,photo cyan,cyan,photo magenta,magenta,yellow and gray).

This printer features a mechanism by which only the correct color ink tank will fit in the given slot.

When the message No Ink is displayed, replace the ink tank with a new one. Also, each ink tank should generally be replaced six months after you have opened the package.

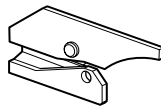


F-1-13

1.2.10 Cutter

iPF6100 / iPF6200 / iPF6000S / iPF6300 / iPF6350 / iPF6300S

A round-blade cutter comes with the cutter unit.



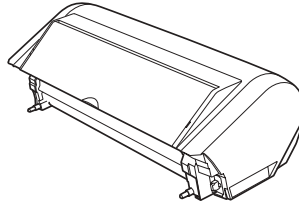
F-1-14

1.2.11 Roll Feed Unit

iPF6100 / iPF6200 / iPF6000S / iPF6300 / iPF6350 / iPF6300S

Roll Feed Unit

The roll feed unit is optionally available to use roll media with this printer.

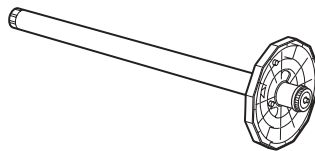


F-1-15

Roll Holder Set

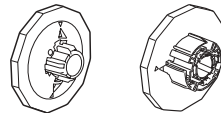
This set consists of roll holder, holder stopper, 3-inch paper tube attachment, and borderless printing spacer (commonly used for 2-inch paper tube and 3-inch paper tube).

[Roll holder]



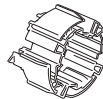
F-1-16

[Holder stopper](for 2-inch paper tube and 3-inch paper tube)



F-1-17

[3-inch paper tube attachment]



F-1-18

[Borderless printing spacer]



F-1-19

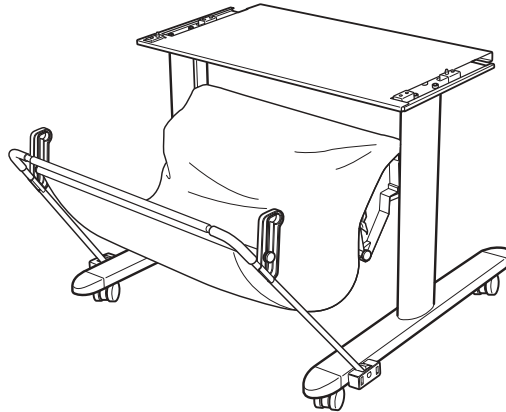
MEMO:
A borderless printing spacer is used to perform borderless printing on A1-size (594 mm) and A2-size (420 mm) roll media. This printer is furnished with a number of borderless printing ink receiving channels on the platen to address multi-sized borderless printing needs. Borderless printing on A1 or A2-size roll media is made possible by using a spacer, without needing to produce a new borderless printing ink receiving channel.

1.2.12 Stand

iPF6100 / iPF6200 / iPF6000S / iPF6300 / iPF6350 / iPF6300S

Stand (Option)

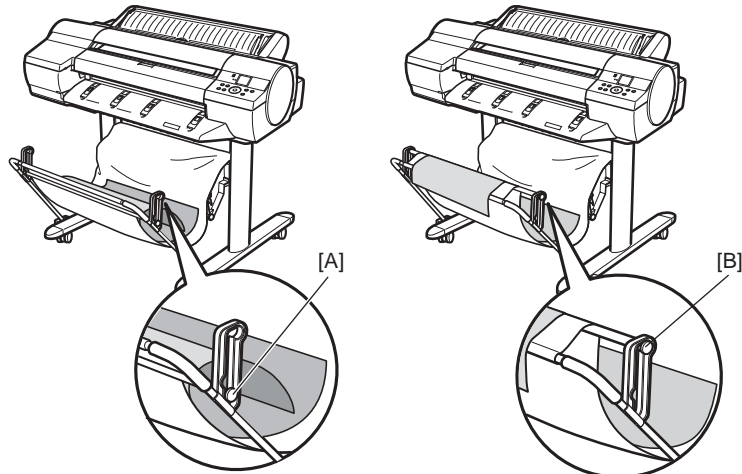
The stand is equipped with casters so that the printer can be easily moved. The output stacker included with stand can use by the two ways of the regular position or extended position.



F-1-20

MEMO:

- Use the output stacker in the regular position [A]. However, for the specified media, it can also be used in the extended position [B]. The media can be removed more easily when the output stacker is in the extended position.
- The output stacker can accommodate one sheet. Remove each sheet before printing if you are printing a series of documents.



F-1-21

1.2.13 Hard Disk Drive

iPF6200 / iPF6000S / iPF6300 / iPF6350

Each print job received from the host computer is saved to the 80GB hard disk drive(serial ATA connection) attached to the printer, so the printer can print the job repeatedly as needed, without having to wait for its retransmission from the host computer.

Saving print jobs will offer the following benefits:

- Eased computer workload

A print job may be automatically preserved to the hard disk when printing or may be preserved to the hard disk without printing. A print job preserved can be printed in as many copies as needed without having to use the host computer.

- Reprinting after error occurrence

If the printer encounters errors, such as paper out, while printing a print job, it can resume the print operation as soon as the errors are cleared, without needing its retransmission from the host computer.

- Higher print work efficiency

Print jobs can be printed selectively or in a specified number of copies without using a host computer. Multiple print jobs can be printed batched. Unattended print operations in the nighttime are also possible.

1.2.14 Hard Disk Drive

iPF6300S

Each print job received from the host computer is saved to the 160GB hard disk drive(serial ATA connection) attached to the printer, so the printer can print the job repeatedly as needed, without having to wait for its retransmission from the host computer.

Saving print jobs will offer the following benefits:

- Reduced computer workload

A print job may be automatically stored to the hard disk when printing or may be stored to the hard disk without printing. A print job stored to the hard disk may be printed multiple times without having to use the host computer.

- Reprinting after error occurrence

If the printer encounters errors, such as paper out, while printing a print job, it can resume the print operation as soon as the errors are cleared, without retransmission from the host computer.

- Higher print work efficiency

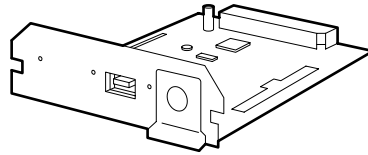
Print jobs can be printed selectively or in a specified number of copies without using a host computer. Multiple print jobs can be printed batched. Unattended print operations in the nighttime are also possible.

1.2.15 IEEE1394 (FireWire) Board

iPF6100

IEEE1394 (FireWire) expansion board (option)

An interface board that provides an additional IEEE1394 (FireWire) port.



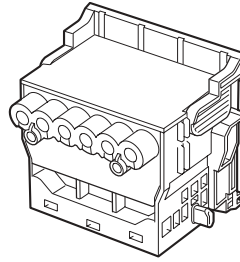
F-1-22

1.2.16 Consumables

iPF6100 / iPF6200

Printhead

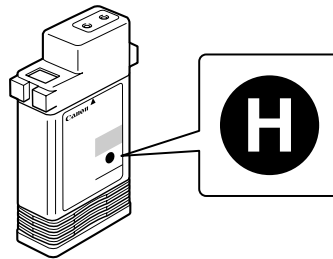
The consumable print head is the same as that supplied with the printer.



F-1-23

Ink Tanks

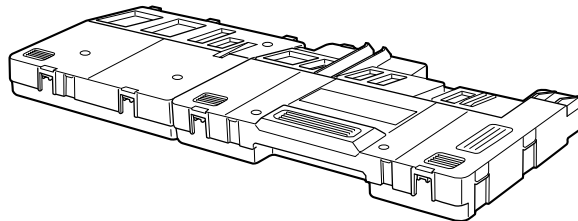
The consumable ink tanks are available in twelve colors (matte black, black, photo cyan, cyan, photo magenta, magenta, yellow, red, blue, green, photo gray, and gray). They are the same as those supplied with the printer. Each ink tank must be replaced with a new one six months after you have opened the package. The ink tank that can be used with this printer is labeled "H".



F-1-24

Maintenance cartridge

The consumable maintenance cartridge is the same as that supplied with the printer.



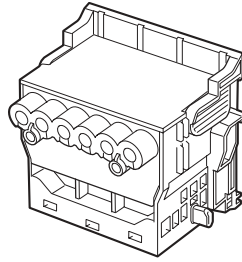
F-1-25

1.2.17 Consumables

iPF6000S

Printhead

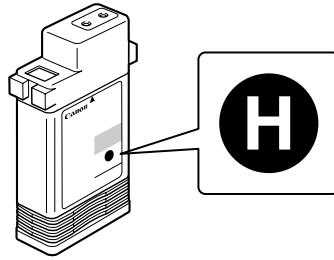
The consumable print head is the same as that supplied with the printer.



F-1-26

Ink Tanks

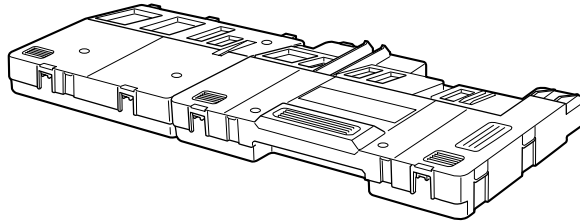
The consumable ink tanks are available in eight colors (matte black, black, photo cyan, cyan, photo magenta, magenta, yellow and gray). They are the same as those supplied with the printer. Each ink tank must be replaced with a new one six months after you have opened the package. The ink tank that can be used with this printer is labeled "H".



F-1-27

Maintenance cartridge

The consumable maintenance cartridge is the same as that supplied with the printer.



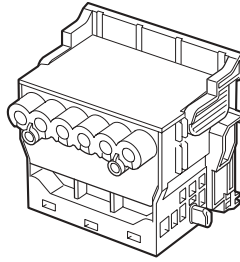
F-1-28

1.2.18 Consumables

iPF6300 / iPF6350

Printhead

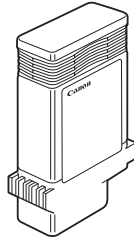
The consumable print head is the same as that supplied with the printer.



F-1-29

Ink Tanks

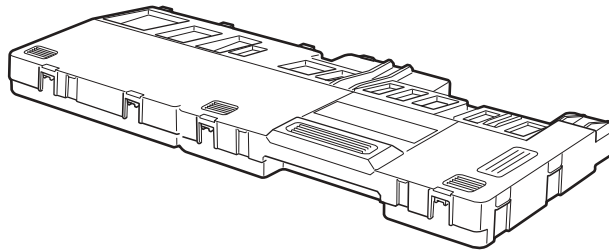
The consumable ink tanks are available in twelve colors (matte black, black, photo cyan, cyan, photo magenta, magenta, yellow, red, blue, green, photo gray, and gray). They are the same as those supplied with the printer. Each ink tank must be replaced with a new one six months after you have opened the package.



F-1-30

Maintenance cartridge

The consumable maintenance cartridge is the same as that supplied with the printer.



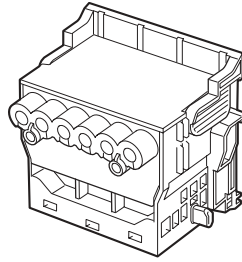
F-1-31

1.2.19 Consumables

iPF6300S

Printhead

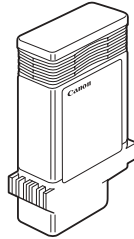
The consumable print head is the same as that supplied with the printer.



F-1-32

Ink Tanks

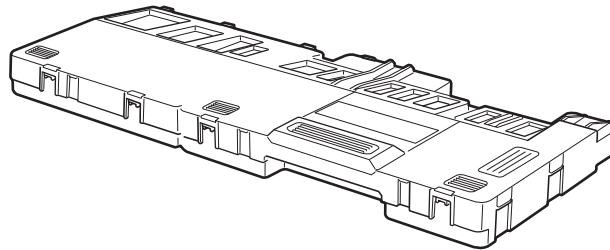
The consumable ink tanks are available in eight colors (matte black, black, photo cyan, cyan, photo magenta, magenta, yellow and gray). They are the same as those supplied with the printer. Each ink tank must be replaced with a new one six month after you have opened the package.



F-1-33

Maintenance cartridge

The consumable maintenance cartridge is the same as that supplied with the printer.



F-1-34

1.3 Product Specifications

1.3.1 Product Specifications

iPF6100

Type	Bubble jet large-sized paper printer
Feeding system	Automatic feeding of one roll media/One cut sheet (manual feed from front)/One cut sheet (manual feed from top)
Feeding capacity	- Roll media One roll at the back/Outer diameter of roll: 150 mm or less/Inner diameter of paper tube: 2 or 3 inches - Cut sheet 1 sheet
Delivery method	Delivers the media with its printed side up in the forward direction.
Sheet delivery capability	Using the stand (option) basket: - Roll media 1 sheet - Cut sheet 1 sheet
Cutter	Automatically cuts paper laterally. Cartridge-type (with round blade)
Type of media	- Roll media Plain Paper, Economy Bond Paper, Universal Bond Paper, Plain Paper (High Quality), Plain Paper (High Grade), Recycled Coated Paper, Matte Coated Paper 90gsm, Coated Paper, Premium Coated Paper, Heavyweight Coated Paper, Extra Heavyweight Coated Paper, Premium Matte Paper, Glossy Photographic Paper 190gsm, Satin Photographic Paper 190gsm, Glossy Photographic Paper 240gsm, Satin Photographic Paper 240gsm, HW Glossy Photo Paper, HW Satin Photo Paper, Premium RC Photo Luster, Glossy Photo Paper, Semi-Glossy Photo Paper, Heavyweight Glossy Photo Paper 2, Heavywght SemiGlos Photo Paper 2, Poster Semi-Glossy Photo Paper, Fine Art Photo, Fine Art Heavyweight Photo, Fine Art Textured, Fine Art Watercolor, Fine Art Block Print, Graphic Canvas, Canvas Matte 2, Japanese Paper Washi, Commercial Proofing Paper, Commercial RC Proofing 210gsm, Commercial RC Proofing 270gsm, Proofing Paper, Newsprint for Proofing1, Newsprint for Proofing2, Newsprint for Proofing3, Durable Banner, Synthetic Paper, Adhesive Synthetic Paper, Flame-Resistant Cloth, Thin Fabric Banner 2, Backlit Film, Durable Backlit Film, Backprint Film, Colored Coated Paper, CAD Tracing Paper, CAD Translucent Matte Film - Cut sheet (manual feed from top) Plain Paper, Economy Bond Paper, Universal Bond Paper, Plain Paper (High Quality), Plain Paper (High Grade), Recycled Coated Paper, Matte Coated Paper 90gsm, High Resolution Paper, Coated Paper, Premium Coated Paper, Heavyweight Coated Paper, Extra Heavyweight Coated Paper, Premium Matte Paper, Matte Photo Paper, Glossy Photographic Paper 190gsm, Satin Photographic Paper 190gsm, Glossy Photographic Paper 240gsm, Satin Photographic Paper 240gsm, HW Glossy Photo Paper, HW Satin Photo Paper, Premium RC Photo Luster, Glossy Photo Paper, Semi-Glossy Photo Paper, Heavyweight Glossy Photo Paper 2, Heavywght SemiGlos Photo Paper 2, Poster Semi-Glossy Photo Paper, Photo Paper Plus, Photo Paper Plus Semi-Gloss, Fine Art Photo, Fine Art Heavyweight Photo, Fine Art Textured, Fine Art Watercolor, Fine Art Block Print, Graphic Canvas, Canvas Matte 2, Japanese Paper Washi, Commercial Proofing Paper, Commercial RC Proofing 210gsm, Commercial RC Proofing 270gsm, Proofing Paper, Newsprint for Proofing1, Newsprint for Proofing2, Newsprint for Proofing3, Durable Banner, Synthetic Paper, Adhesive Synthetic Paper, Flame-Resistant Cloth, Thin Fabric Banner 2, Backlit Film, Durable Backlit Film, Backprint Film, Colored Coated Paper, CAD Tracing Paper, CAD Translucent Matte Film - Cut sheet (manual feed from front) POP Board
Supported thickness	Roll media: 0.08 to 0.8 mm Manual feed from top: 0.08 to 0.8 mm Manual feed from front: 0.8 to 1.5 mm
Media size (Roll media)	Width:203mm X 610mm(24inch) Lengh:203mm X 18m Maximum outside diameter:150 mm
Media size (Cut sheet)	- Manual feed from top Width:203mm(8inch) X 610mm(24inch) Lengh:279mm X 1600mm - Manual feed from front Width:250mm(8inch) X 610mm(24inch) Lengh:350mm X 914mm

Printable area (Roll media)	Area excluding 3mm from the leading edge, 3 mm from the trailing edge, and 3 mm from the left and right edges. Borderless printing: 0 mm from the leading edge, trailing edge, and left and right edges. Width of media allowing borderless printing: 10"(254mm), B4(257mm), A3+(329mm), 14"(356mm), 16"(407mm), A2(420mm), A2+/17"(432mm), B2(515mm), A1(594mm), 24"(610mm) Media type allowing borderless printing: Premium Coated Paper, Heavyweight Coated Paper, Extra Heavyweight Coated Paper, Premium Matte Paper, Glossy Photographic Paper 190gsm, Satin Photographic Paper 190gsm, Glossy Photographic Paper 240gsm, Satin Photographic Paper 240gsm, HW Glossy Photo Paper, HW Satin Photo Paper, Premium RC Photo Luster, Glossy Photo Paper, Semi-Glossy Photo Paper, Heavyweight Glossy Photo Paper 2, Heavywght SemiGlos Photo Paper 2, Poster Semi-Glossy Photo Paper, Fine Art Photo, Fine Art Heavyweight Photo, Fine Art Textured, Fine Art Watercolor, Fine Art Block Print
Printable area (Cut sheet)	Area excluding 3 mm from the leading edge, 3 mm from the trailing edge (23 mm when supplied from manual feed from top or selected the fine art), and 3 mm from the left and right edges.
Printing recommendation area (Roll media)	Area excluding 20 mm from leading edge, 5 mm from the trailing edge and 5 mm from the left and right edges (standard size).
Printing recommendation area (Cut sheet)	Area excluding 20 mm from the leading edge, 27 mm from the trailing edge, and 5 mm from the left and right edges (standard size).
Memory	384MB Increase of memory: none
Firmware	Flash ROM (update from USB or Ethernet, IEEE1394) - Printer description language GARO (Graphic Arts language with Raster Operation)
Interface	USB2.0, Ethernet, IEEE1394 (option)
Operation panel	LCD (160 X 128 dots), 12 keys, 5 LEDs - Panel language English - Message language English, German, French, Italian, Spanish, Chinese, Korean, Russian and Japanese
Printhead/Ink Tank type	Printhead and separate ink tanks
Printhead	[PF-03] Number nozzles: 2560 nozzles per color
Ink tank	[PFI-103]MBK,BK,GY,PGY [PFI-101]R,G,B,C,M,Y,PC,PM Capacity: 130 ml per color (Ink tanks supplied with the printer contain 90 ml of each color.)
Detection functions (Cover system)	Detects opening/closing of the top cover and ink tank cover.
Detection functions (Ink passage system)	Detects presence/absence of ink tank, ink level (dot count and electrode), presence/absence of the maintenance cartridge, waste ink full level, presence/absence of the printhead, and opening/closing of the supply valve.
Detection functions (Carriage system)	Detects the ambient temperature, head temperature, presence/absence of the head, and no ink ejection.
Detection functions (Paper path system)	Detects presence/absence of paper, cutter position, leading/trailing edge of paper, paper width, and skew.
Operating noise	During printing: Approx. 49 dB (A) or less During standby: Approx. 35 dB (A) or less
Operating environment	Temperature: 15 to 30 degrees centigrade Humidity: 10% to 80% without dew condensation
Print quality guaranteed environment	Temperature: 15 to 30 degrees centigrade Humidity: 10% to 80%RH
Power supply	100-120 VAC (50/60 Hz), 220-240 VAC (50/60 Hz)
Power consumption (Maximum)	During printing: Max. 100 W
Power consumption	In power save (sleep) mode: 5W or less(220-240 VAC: 6W or less) (When IEEE1394 board installed, 8W or less[220-240 VAC: 9W or less]) During standby: 1 W or less
Printer unit dimensions (WxDxH)	1177 x 670 x 344 mm With stand (option): 1177 x 870 x 991 mm
Weight	Approx. 51 kg

1.3.2 Product Specifications

iPF6200

Type	Bubble jet large-sized paper printer
Feeding system	Automatic feeding of one roll media/One cut sheet (manual feed from front)/One cut sheet (manual feed from top)

Feeding capacity	- Roll media One roll at the back/Outer diameter of roll: 150 mm or less/Inner diameter of paper tube: 2 or 3 inches - Cut sheet 1 sheet
Delivery method	Delivers the media with its printed side up in the forward direction.
Sheet delivery capability	Using the stand (option) basket: - Roll media 1 sheet - Cut sheet 1 sheet
Cutter	Automatically cuts paper laterally. Cartridge-type (with round blade)
Type of media	- Roll media Plain Paper, Economy Bond Paper, Universal Bond Paper, Plain Paper (High Quality), Plain Paper (High Grade), Recycled Coated Paper, Matte Coated Paper 90gsm, Coated Paper, Premium Coated Paper, Heavyweight Coated Paper, Extra Heavyweight Coated Paper, Premium Matte Paper, Glossy Photographic Paper 190gsm, Satin Photographic Paper 190gsm, Glossy Photographic Paper 240gsm, Satin Photographic Paper 240gsm, HW Glossy Photo Paper, HW Satin Photo Paper, Premium RC Photo Luster, Glossy Photo Paper, Semi-Glossy Photo Paper, Heavyweight Glossy Photo Paper 2, Heavywght SemiGlos Photo Paper 2, Poster Semi-Glossy Photo Paper, Fine Art Photo, Fine Art Heavyweight Photo, Fine Art Textured, Fine Art Watercolor, Fine Art Block Print, Graphic Canvas, Canvas Matte 2, Japanese Paper Washi, Commercial Proofing Paper, Commercial RC Proofing 210gsm, Commercial RC Proofing 270gsm, Proofing Paper, Newsprint for Proofing1, Newsprint for Proofing2, Newsprint for Proofing3, Durable Banner, Synthetic Paper, Adhesive Synthetic Paper, Flame-Resistant Cloth, Thin Fabric Banner 2, Backlit Film, Durable Backlit Film, Backprint Film, Colored Coated Paper, CAD Tracing Paper, CAD Translucent Matte Film - Cut sheet (manual feed from top) Plain Paper, Economy Bond Paper, Universal Bond Paper, Plain Paper (High Quality), Plain Paper (High Grade), Recycled Coated Paper, Matte Coated Paper 90gsm, High Resolution Paper, Coated Paper, Premium Coated Paper, Heavyweight Coated Paper, Extra Heavyweight Coated Paper, Premium Matte Paper, Matte Photo Paper, Glossy Photographic Paper 190gsm, Satin Photographic Paper 190gsm, Glossy Photographic Paper 240gsm, Satin Photographic Paper 240gsm, HW Glossy Photo Paper, HW Satin Photo Paper, Premium RC Photo Luster, Glossy Photo Paper, Semi-Glossy Photo Paper, Heavyweight Glossy Photo Paper 2, Heavywght SemiGlos Photo Paper 2, Poster Semi-Glossy Photo Paper, Photo Paper Plus, Photo Paper Plus Semi-Gloss, Fine Art Photo, Fine Art Heavyweight Photo, Fine Art Textured, Fine Art Watercolor, Fine Art Block Print, Graphic Canvas, Canvas Matte 2, Japanese Paper Washi, Commercial Proofing Paper, Commercial RC Proofing 210gsm, Commercial RC Proofing 270gsm, Proofing Paper, Newsprint for Proofing1, Newsprint for Proofing2, Newsprint for Proofing3, Durable Banner, Synthetic Paper, Adhesive Synthetic Paper, Flame-Resistant Cloth, Thin Fabric Banner 2, Backlit Film, Durable Backlit Film, Backprint Film, Colored Coated Paper, CAD Tracing Paper, CAD Translucent Matte Film - Cut sheet (manual feed from front) POP Board
Supported thickness	Roll media: 0.08 to 0.8 mm Manual feed from top: 0.08 to 0.8 mm Manual feed from front: 0.8 to 1.5 mm
Media size (Roll media)	Width:203mm X 610mm(24inch) Length:203mm X 18m Maximum outside diameter:150 mm
Media size (Cut sheet)	- Manual feed from top Width:203mm(8inch) X 610mm(24inch) Length:279mm X 1600mm - Manual feed from front Width:250mm(8inch) X 610mm(24inch) Length:350mm X 914mm
Printable area (Roll media)	Area excluding 3mm from the leading edge, 3 mm from the trailing edge, and 3 mm from the left and right edges. Borderless printing: 0 mm from the leading edge, trailing edge, and left and right edges. Width of media allowing borderless printing: 10"(254mm), B4(257mm), A3+(329mm), 14"(356mm), 16"(407mm), A2(420mm), A2+/17"(432mm), B2(515mm), A1(594mm), 24"(610mm) Media type allowing borderless printing: Premium Coated Paper, Heavyweight Coated Paper, Extra Heavyweight Coated Paper, Premium Matte Paper, Glossy Photographic Paper 190gsm, Satin Photographic Paper 190gsm, Glossy Photographic Paper 240gsm, Satin Photographic Paper 240gsm, HW Glossy Photo Paper, HW Satin Photo Paper, Premium RC Photo Luster, Glossy Photo Paper, Semi-Glossy Photo Paper, Heavyweight Glossy Photo Paper 2, Heavywght SemiGlos Photo Paper 2, Poster Semi-Glossy Photo Paper, Fine Art Photo, Fine Art Heavyweight Photo, Fine Art Textured, Fine Art Watercolor, Fine Art Block Print

Printable area (Cut sheet)	Area excluding 3 mm from the leading edge, 3 mm from the trailing edge (23 mm when supplied from manual feed from top or selected the fine art), and 3 mm from the left and right edges.
Printing recommendation area (Roll media)	Area excluding 20 mm from leading edge, 5 mm from the trailing edge and 5 mm from the left and right edges (standard size).
Printing recommendation area (Cut sheet)	Area excluding 20 mm from the leading edge, 27 mm from the trailing edge, and 5 mm from the left and right edges (standard size).
Memory	384MB Increase of memory: none
Hard disk drive	80GB
Firmware	Flash ROM (update from USB or Ethernet) - Printer description language GARO (Graphic Arts language with Raster Operation)
Interface	USB2.0, Ethernet
Operation panel	LCD (160 X 128 dots), 12 keys, 5 LEDs - Panel language English - Message language English, German, French, Italian, Spanish, Chinese, Korean, Russian and Japanese
Printhead/Ink Tank type	Printhead and separate ink tanks
Printhead	[PF-03] Number nozzles: 2560 nozzles per color
Ink tank	[PFI-103]MBK,BK,GY,PGY [PFI-101]R,G,B,C,M,Y,PC,PM Capacity: 130 ml per color (Ink tanks supplied with the printer contain 90 ml of each color.)
Detection functions (Cover system)	Detects opening/closing of the top cover and ink tank cover.
Detection functions (Ink passage system)	Detects presence/absence of ink tank, ink level (dot count and electrode), presence/absence of the maintenance cartridge, waste ink full level, presence/absence of the printhead, and opening/closing of the supply valve.
Detection functions (Carriage system)	Detects the ambient temperature, head temperature, presence/absence of the head, and no ink ejection.
Detection functions (Paper path system)	Detects presence/absence of paper, cutter position, leading/trailing edge of paper, paper width, and skew.
Operating noise	During printing: Approx. 49 dB (A) or less During standby: Approx. 35 dB (A) or less
Operating environment	Temperature: 15 to 30 degrees centigrade Humidity: 10% to 80% without dew condensation
Print quality guaranteed environment	Temperature: 15 to 30 degrees centigrade Humidity: 10% to 80%RH
Power supply	100-120 VAC (50/60 Hz), 220-240 VAC (50/60 Hz)
Power consumption (Maximum)	During printing: Max. 100 W
Power consumption	In power save (sleep) mode: 5W or less(220-240 VAC: 6W or less) During standby: 1 W or less
Printer unit dimensions (WxDxH)	1177 x 670 x 344 mm With stand (option): 1177 x 870 x 991 mm
Weight	Approx. 51 kg

1.3.3 Product Specifications

iPF6000S

Type	Bubble jet large-sized paper printer
Feeding system	Automatic feeding of one roll media/One cut sheet (manual feed from front)/One cut sheet (manual feed from top)
Feeding capacity	- Roll media One roll at the back/Outer diameter of roll: 150 mm or less/Inner diameter of paper tube: 2 or 3 inches - Cut sheet 1 sheet
Delivery method	Delivers the media with its printed side up in the forward direction.
Sheet delivery capability	Using the stand (option) basket: - Roll media 1 sheet - Cut sheet 1 sheet
Cutter	Automatically cuts paper laterally. Cartridge-type (with round blade)

Type of media	<p>- Roll media Plain Paper, Economy Bond Paper, Universal Bond Paper, Plain Paper (High Quality), Plain Paper (High Grade), Recycled Coated Paper, Matte Coated Paper 90gsm, Coated Paper, Premium Coated Paper, Heavyweight Coated Paper, Extra Heavyweight Coated Paper, Premium Matte Paper, Glossy Photographic Paper 190gsm, Satin Photographic Paper 190gsm, Glossy Photographic Paper 240gsm, Satin Photographic Paper 240gsm, HW Glossy Photo Paper, HW Satin Photo Paper, Premium RC Photo Luster, Glossy Photo Paper, Semi-Glossy Photo Paper, Heavyweight Glossy Photo Paper 2, Heavywght SemiGlos Photo Paper 2, Poster Semi-Glossy Photo Paper, Fine Art Photo, Fine Art Heavyweight Photo, Fine Art Textured, Fine Art Watercolor, Fine Art Block Print, Graphic Canvas, Canvas Matte 2, Japanese Paper Washi, Commercial Proofing Paper, Commercial RC Proofing 210gsm, Commercial RC Proofing 270gsm, Proofing Paper, Newsprint for Proofing1, Newsprint for Proofing2, Newsprint for Proofing3, Durable Banner, Synthetic Paper, Adhesive Synthetic Paper, Flame-Resistant Cloth, Thin Fabric Banner 2, Backlit Film, Durable Backlit Film, Backprint Film, Colored Coated Paper, CAD Tracing Paper, CAD Translucent Matte Film</p> <p>- Cut sheet (manual feed from top) Plain Paper, Economy Bond Paper, Universal Bond Paper, Plain Paper (High Quality), Plain Paper (High Grade), Recycled Coated Paper, Matte Coated Paper 90gsm, High Resolution Paper, Coated Paper, Premium Coated Paper, Heavyweight Coated Paper, Extra Heavyweight Coated Paper, Premium Matte Paper, Matte Photo Paper, Glossy Photographic Paper 190gsm, Satin Photographic Paper 190gsm, Glossy Photographic Paper 240gsm, Satin Photographic Paper 240gsm, HW Glossy Photo Paper, HW Satin Photo Paper, Premium RC Photo Luster, Glossy Photo Paper, Semi-Glossy Photo Paper, Heavyweight Glossy Photo Paper 2, Heavywght SemiGlos Photo Paper 2, Poster Semi-Glossy Photo Paper, Photo Paper Plus, Photo Paper Plus Semi-Gloss, Fine Art Photo, Fine Art Heavyweight Photo, Fine Art Textured, Fine Art Watercolor, Fine Art Block Print, Graphic Canvas, Canvas Matte 2, Japanese Paper Washi, Commercial Proofing Paper, Commercial RC Proofing 210gsm, Commercial RC Proofing 270gsm, Proofing Paper, Newsprint for Proofing1, Newsprint for Proofing2, Newsprint for Proofing3, Durable Banner, Synthetic Paper, Adhesive Synthetic Paper, Flame-Resistant Cloth, Thin Fabric Banner 2, Backlit Film, Durable Backlit Film, Backprint Film, Colored Coated Paper, CAD Tracing Paper, CAD Translucent Matte Film</p> <p>- Cut sheet (manual feed from front) POP Board</p>
Supported thickness	<p>Roll media: 0.07 to 0.8 mm Manual feed from top: 0.07 to 0.8 mm Manual feed from front: 0.5 to 1.5 mm</p>
Media size (Roll media)	<p>Width:203mm X 610mm(24inch) Length:203mm X 18m Maximum outside diameter:150 mm</p>
Media size (Cut sheet)	<p>- Manual feed from top Width:203mm(8inch) X 610mm(24inch) Length:279mm X 1600mm - Manual feed from front Width:250mm(8inch) X 610mm(24inch) Length:350mm X 914mm</p>
Printable area (Roll media)	<p>Area excluding 3mm from the leading edge, 3 mm from the trailing edge, and 3 mm from the left and right edges. Borderless printing: 0 mm from the leading edge, trailing edge, and left and right edges.</p> <p>Width of media allowing borderless printing: 10"(254mm), B4(257mm), A3+(329mm), 14"(356mm), 16"(407mm), A2(420mm), A2+/17"(432mm), B2(515mm), A1(594mm), 24"(610mm)</p> <p>Media type allowing borderless printing: Premium Coated Paper, Heavyweight Coated Paper, Extra Heavyweight Coated Paper, Premium Matte Paper, Glossy Photographic Paper 190gsm, Satin Photographic Paper 190gsm, Glossy Photographic Paper 240gsm, Satin Photographic Paper 240gsm, HW Glossy Photo Paper, HW Satin Photo Paper, Premium RC Photo Luster, Glossy Photo Paper, Semi-Glossy Photo Paper, Heavyweight Glossy Photo Paper 2, Heavywght SemiGlos Photo Paper 2, Poster Semi-Glossy Photo Paper, Fine Art Photo, Fine Art Heavyweight Photo, Fine Art Textured, Fine Art Watercolor, Fine Art Block Print</p>
Printable area (Cut sheet)	<p>Area excluding 3 mm from the leading edge, 3 mm from the trailing edge (23 mm when supplied from manual feed from top or selected the fine art), and 3 mm from the left and right edges.</p>
Printing recommendation area (Roll media)	<p>Area excluding 20 mm from leading edge, 5 mm from the trailing edge and 5 mm from the left and right edges (standard size).</p>
Printing recommendation area (Cut sheet)	<p>Area excluding 20 mm from the leading edge, 27 mm from the trailing edge, and 5 mm from the left and right edges (standard size).</p>
Memory	<p>256MB Increase of memory: none</p>
Hard disk drive	<p>80GB</p>

Firmware	Flash ROM (update from USB or Ethernet) - Printer description language GARO (Graphic Arts language with Raster Operation)
Interface	USB2.0, Ethernet
Operation panel	LCD (160 X 128 dots), 12 keys, 5 LEDs - Panel language English - Message language English, German, French, Italian, Spanish, Chinese, Korean, Russian and Japanese
Printhead/Ink Tank type	Printhead and separate ink tanks
Printhead	[PF-03] - Number nozzles C, PC, PM, GY: 2560 nozzles per color X2 - Number nozzles BK, MBK, M, Y: 2560 nozzles per color
Ink tank	[PFI-101]MBK,BK,PC,C,PM,M,Y,GY Capacity: 130 ml per color (Ink tanks supplied with the printer contain 90 ml of each color.)
Detection functions (Cover system)	Detects opening/closing of the top cover and ink tank cover.
Detection functions (Ink passage system)	Detects presence/absence of ink tank, ink level (dot count and electrode), presence/absence of the maintenance cartridge, waste ink full level, presence/absence of the printhead, and opening/closing of the supply valve.
Detection functions (Carriage system)	Detects the ambient temperature, head temperature, presence/absence of the head, and no ink ejection.
Detection functions (Paper path system)	Detects presence/absence of paper, cutter position, leading/trailing edge of paper, paper width, and skew.
Operating noise	During printing: Approx. 49 dB (A) or less During standby: Approx. 35 dB (A) or less
Operating environment	Temperature: 15 to 30 degrees centigrade Humidity: 10% to 80% without dew condensation
Print quality guaranteed environment	Temperature: 15 to 30 degrees centigrade Humidity: 10% to 80%RH
Power supply	100-120 VAC (50/60 Hz), 220-240 VAC (50/60 Hz)
Power consumption (Maximum)	During printing: Max. 100 W
Power consumption	In power save (sleep) mode: 5W or less(220-240 VAC: 6W or less) During standby: 1 W or less
Printer unit dimensions (WxDxH)	1177 x 670 x 344 mm With stand (option): 1177 x 870 x 991 mm
Weight	Approx. 51 kg

1.3.4 Product Specifications

iPF6300

Type	Bubble jet large-sized paper printer
Feeding system	Automatic feeding of one roll media/One cut sheet (manual feed from front)/One cut sheet (manual feed from top)
Feeding capacity	- Roll media One roll at the back/Outer diameter of roll: 150 mm or less/Inner diameter of paper tube: 2 or 3 inches - Cut sheet 1 sheet
Delivery method	Delivers the media with its printed side up in the forward direction.
Sheet delivery capability	Using the stand (option) basket: - Roll media 1 sheet - Cut sheet 1 sheet
Cutter	Automatically cuts paper laterally. Cartridge-type (with round blade)

Type of media	<p>- Roll media Plain Paper, Economy Bond Paper, Universal Bond Paper, Plain Paper (High Quality), Plain Paper (High Grade), Recycled Coated Paper, Matte Coated Paper 90gsm, Coated Paper, Premium Coated Paper, Heavyweight Coated Paper, Extra Heavyweight Coated Paper, Premium Matte Paper, Glossy Photographic Paper 190gsm, Satin Photographic Paper 190gsm, Glossy Photographic Paper 240gsm, Satin Photographic Paper 240gsm, HW Glossy Photo Paper, HW Satin Photo Paper, Premium RC Photo Luster, Glossy Photo Paper, Semi-Glossy Photo Paper, Heavyweight Glossy Photo Paper 2, Heavywght SemiGlos Photo Paper 2, Poster Semi-Glossy Photo Paper, Fine Art Photo, Fine Art Heavyweight Photo, Fine Art Textured, Fine Art Watercolor, Fine Art Block Print, Graphic Canvas, Canvas Matte 2, Japanese Paper Washi, Commercial Proofing Paper, Commercial RC Proofing 210gsm, Commercial RC Proofing 270gsm, Proofing Paper, Newsprint for Proofing1, Newsprint for Proofing2, Newsprint for Proofing3, Durable Banner, Synthetic Paper, Adhesive Synthetic Paper, Flame-Resistant Cloth, Thin Fabric Banner 2, Backlit Film, Durable Backlit Film, Backprint Film, Colored Coated Paper, CAD Tracing Paper, CAD Translucent Matte Film</p> <p>- Cut sheet (manual feed from top) Plain Paper, Economy Bond Paper, Universal Bond Paper, Plain Paper (High Quality), Plain Paper (High Grade), Recycled Coated Paper, Matte Coated Paper 90gsm, High Resolution Paper, Coated Paper, Premium Coated Paper, Heavyweight Coated Paper, Extra Heavyweight Coated Paper, Premium Matte Paper, Matte Photo Paper, Glossy Photographic Paper 190gsm, Satin Photographic Paper 190gsm, Glossy Photographic Paper 240gsm, Satin Photographic Paper 240gsm, HW Glossy Photo Paper, HW Satin Photo Paper, Premium RC Photo Luster, Glossy Photo Paper, Semi-Glossy Photo Paper, Heavyweight Glossy Photo Paper 2, Heavywght SemiGlos Photo Paper 2, Poster Semi-Glossy Photo Paper, Photo Paper Plus, Photo Paper Plus Semi-Gloss, Fine Art Photo, Fine Art Heavyweight Photo, Fine Art Textured, Fine Art Watercolor, Fine Art Block Print, Graphic Canvas, Canvas Matte 2, Japanese Paper Washi, Commercial Proofing Paper, Commercial RC Proofing 210gsm, Commercial RC Proofing 270gsm, Proofing Paper, Newsprint for Proofing1, Newsprint for Proofing2, Newsprint for Proofing3, Durable Banner, Synthetic Paper, Adhesive Synthetic Paper, Flame-Resistant Cloth, Thin Fabric Banner 2, Backlit Film, Durable Backlit Film, Backprint Film, Colored Coated Paper, CAD Tracing Paper, CAD Translucent Matte Film</p> <p>- Cut sheet (manual feed from front) POP Board</p>
Supported thickness	<p>Roll media: 0.07 to 0.8 mm Manual feed from top: 0.07 to 0.8 mm Manual feed from front: 0.5 to 1.5 mm</p>
Media size (Roll media)	<p>Width:203mm X 610mm(24inch) Lengh:203mm X 18m Maximum outside diameter:150 mm</p>
Media size (Cut sheet)	<p>- Manual feed from top Width:203mm(8inch) X 610mm(24inch) Lengh:279mm X 1600mm - Manual feed from front Width:250mm(8inch) X 610mm(24inch) Lengh:350mm X 914mm</p>
Printable area (Roll media)	<p>Area excluding 3mm from the leading edge, 3 mm from the trailing edge, and 3 mm from the left and right edges. Borderless printing: 0 mm from the leading edge, trailing edge, and left and right edges.</p> <p>Width of media allowing borderless printing: 10"(254mm), B4(257mm), 14"(355.6mm), 16"(406.4mm), A2(420mm), A2+/17"(431.8mm), B2(515mm), A1(594mm), 24"(609.6mm)</p> <p>Media type allowing borderless printing: Premium Coated Paper, Heavyweight Coated Paper, Extra Heavyweight Coated Paper, Premium Matte Paper, Glossy Photographic Paper 190gsm, Satin Photographic Paper 190gsm, Glossy Photographic Paper 240gsm, Satin Photographic Paper 240gsm, HW Glossy Photo Paper, HW Satin Photo Paper, Premium RC Photo Luster, Glossy Photo Paper, Semi-Glossy Photo Paper, Heavyweight Glossy Photo Paper 2, Heavywght SemiGlos Photo Paper 2, Poster Semi-Glossy Photo Paper, Fine Art Photo, Fine Art Heavyweight Photo, Fine Art Textured, Fine Art Watercolor, Fine Art Block Print</p>
Printable area (Cut sheet)	<p>Area excluding 3 mm from the leading edge, 3 mm from the trailing edge (23 mm when supplied from manual feed from top or selected the fine art), and 3 mm from the left and right edges.</p>
Printing recommendation area (Roll media)	<p>Area excluding 20 mm from leading edge, 5 mm from the trailing edge and 5 mm from the left and right edges (standard size).</p>
Printing recommendation area (Cut sheet)	<p>Area excluding 20 mm from the leading edge, 27 mm from the trailing edge, and 5 mm from the left and right edges (standard size).</p>
Memory	<p>384MB Increase of memory: none</p>
Firmware	<p>Flash ROM (update from USB or Ethernet) - Printer description language GARO (Graphic Arts language with Raster Operation)</p>

Interface	USB2.0, Ethernet
Operation panel	LCD (160 X 128 dots), 13 keys, 5 LEDs - Panel language English - Message language English, German, French, Italian, Spanish, Chinese, Korean, Russian and Japanese
Printhead/Ink Tank type	Printhead and separate ink tanks
Printhead	[PF-05] Number nozzles: 2560 nozzles per color
Ink tank	[PFI-105]MBK, BK, C, M, Y, PC, PM, GY, PGY, R, G,B Capacity: 130 ml per color (Ink tanks supplied with the printer contain 90 ml of each color.)
Detection functions (Cover system)	Detects opening/closing of the top cover and ink tank cover.
Detection functions (Ink passage system)	Detects presence/absence of ink tank, ink level (dot count and electrode), presence/absence of the maintenance cartridge, waste ink full level, and opening/closing of the supply valve.
Detection functions (Carriage system)	Detects the carriage position, presence/absence of the printhead, height of the printhead, the ambient temperature, head temperature, and no ink ejection.
Detection functions (Paper path system)	Detects presence/absence of paper, leading/trailing edge of paper, paper width, skew, cutter position, height of the cutter, height of the spur, rotation of the feed roller.
Operating noise	During printing: Approx. 47 dB (A) or less During standby: Approx. 35 dB (A) or less
Operating environment	Temperature: 15 to 30 degrees centigrade Humidity: 10% to 80% without dew condensation
Print quality guaranteed environment	Temperature: 15 to 30 degrees centigrade Humidity: 10% to 80%RH
Power supply	100-120 VAC (50/60 Hz), 220-240 VAC (50/60 Hz)
Power consumption (Maximum)	During printing: Max. 100 W
Power consumption	In power save (sleep) mode: 6W or less(220-240 VAC: 7W or less) During standby: 1 W or less
Printer unit dimensions (WxDxH)	1177 x 670 x 344 mm With stand (option): 1177 x 870 x 991 mm
Weight	Approx. 51 kg

1.3.5 Product Specifications

iPF6350

Type	Bubble jet large-sized paper printer
Feeding system	Automatic feeding of one roll media/One cut sheet (manual feed from front)/One cut sheet (manual feed from top)
Feeding capacity	- Roll media One roll at the back/Outer diameter of roll: 150 mm or less/Inner diameter of paper tube: 2 or 3 inches - Cut sheet 1 sheet
Delivery method	Delivers the media with its printed side up in the forward direction.
Sheet delivery capability	Using the stand (option) basket: - Roll media 1 sheet - Cut sheet 1 sheet
Cutter	Automatically cuts paper laterally. Cartridge-type (with round blade)

Type of media	<p>- Roll media Plain Paper, Economy Bond Paper, Universal Bond Paper, Plain Paper (High Quality), Plain Paper (High Grade), Recycled Coated Paper, Matte Coated Paper 90gsm, Coated Paper, Premium Coated Paper, Heavyweight Coated Paper, Extra Heavyweight Coated Paper, Premium Matte Paper, Glossy Photographic Paper 190gsm, Satin Photographic Paper 190gsm, Glossy Photographic Paper 240gsm, Satin Photographic Paper 240gsm, HW Glossy Photo Paper, HW Satin Photo Paper, Premium RC Photo Luster, Glossy Photo Paper, Semi-Glossy Photo Paper, Heavyweight Glossy Photo Paper 2, Heavywght SemiGlos Photo Paper 2, Poster Semi-Glossy Photo Paper, Fine Art Photo, Fine Art Heavyweight Photo, Fine Art Textured, Fine Art Watercolor, Fine Art Block Print, Graphic Canvas, Canvas Matte 2, Japanese Paper Washi, Commercial Proofing Paper, Commercial RC Proofing 210gsm, Commercial RC Proofing 270gsm, Proofing Paper, Newsprint for Proofing1, Newsprint for Proofing2, Newsprint for Proofing3, Durable Banner, Synthetic Paper, Adhesive Synthetic Paper, Flame-Resistant Cloth, Thin Fabric Banner 2, Backlit Film, Durable Backlit Film, Backprint Film, Colored Coated Paper, CAD Tracing Paper, CAD Translucent Matte Film</p> <p>- Cut sheet (manual feed from top) Plain Paper, Economy Bond Paper, Universal Bond Paper, Plain Paper (High Quality), Plain Paper (High Grade), Recycled Coated Paper, Matte Coated Paper 90gsm, High Resolution Paper, Coated Paper, Premium Coated Paper, Heavyweight Coated Paper, Extra Heavyweight Coated Paper, Premium Matte Paper, Matte Photo Paper, Glossy Photographic Paper 190gsm, Satin Photographic Paper 190gsm, Glossy Photographic Paper 240gsm, Satin Photographic Paper 240gsm, HW Glossy Photo Paper, HW Satin Photo Paper, Premium RC Photo Luster, Glossy Photo Paper, Semi-Glossy Photo Paper, Heavyweight Glossy Photo Paper 2, Heavywght SemiGlos Photo Paper 2, Poster Semi-Glossy Photo Paper, Photo Paper Plus, Photo Paper Plus Semi-Gloss, Fine Art Photo, Fine Art Heavyweight Photo, Fine Art Textured, Fine Art Watercolor, Fine Art Block Print, Graphic Canvas, Canvas Matte 2, Japanese Paper Washi, Commercial Proofing Paper, Commercial RC Proofing 210gsm, Commercial RC Proofing 270gsm, Proofing Paper, Newsprint for Proofing1, Newsprint for Proofing2, Newsprint for Proofing3, Durable Banner, Synthetic Paper, Adhesive Synthetic Paper, Flame-Resistant Cloth, Thin Fabric Banner 2, Backlit Film, Durable Backlit Film, Backprint Film, Colored Coated Paper, CAD Tracing Paper, CAD Translucent Matte Film</p> <p>- Cut sheet (manual feed from front) POP Board</p>
Supported thickness	<p>Roll media: 0.07 to 0.8 mm Manual feed from top: 0.07 to 0.8 mm Manual feed from front: 0.5 to 1.5 mm</p>
Media size (Roll media)	<p>Width:203mm X 610mm(24inch) Length:203mm X 18m Maximum outside diameter:150 mm</p>
Media size (Cut sheet)	<p>- Manual feed from top Width:203mm(8inch) X 610mm(24inch) Length:279mm X 1600mm - Manual feed from front Width:250mm(8inch) X 610mm(24inch) Length:350mm X 914mm</p>
Printable area (Roll media)	<p>Area excluding 3mm from the leading edge, 3 mm from the trailing edge, and 3 mm from the left and right edges. Borderless printing: 0 mm from the leading edge, trailing edge, and left and right edges.</p> <p>Width of media allowing borderless printing: 10"(254mm), B4(257mm), 14"(355.6mm), 16"(406.4mm), A2(420mm), A2+/17"(431.8mm), B2(515mm), A1(594mm), 24"(609.6mm)</p> <p>Media type allowing borderless printing: Premium Coated Paper, Heavyweight Coated Paper, Extra Heavyweight Coated Paper, Premium Matte Paper, Glossy Photographic Paper 190gsm, Satin Photographic Paper 190gsm, Glossy Photographic Paper 240gsm, Satin Photographic Paper 240gsm, HW Glossy Photo Paper, HW Satin Photo Paper, Premium RC Photo Luster, Glossy Photo Paper, Semi-Glossy Photo Paper, Heavyweight Glossy Photo Paper 2, Heavywght SemiGlos Photo Paper 2, Poster Semi-Glossy Photo Paper, Fine Art Photo, Fine Art Heavyweight Photo, Fine Art Textured, Fine Art Watercolor, Fine Art Block Print</p>
Printable area (Cut sheet)	<p>Area excluding 3 mm from the leading edge, 3 mm from the trailing edge (23 mm when supplied from manual feed from top or selected the fine art), and 3 mm from the left and right edges.</p>
Printing recommendation area (Roll media)	<p>Area excluding 20 mm from leading edge, 5 mm from the trailing edge and 5 mm from the left and right edges (standard size).</p>
Printing recommendation area (Cut sheet)	<p>Area excluding 20 mm from the leading edge, 27 mm from the trailing edge, and 5 mm from the left and right edges (standard size).</p>
Memory	<p>384MB Increase of memory: none</p>
Hard disk drive	<p>80GB (2.5inch, 5400rpm, S-ATA I/F)</p>

Firmware	Flash ROM (update from USB or Ethernet) - Printer description language GARO (Graphic Arts language with Raster Operation)
Interface	USB2.0, Ethernet
Operation panel	LCD (160 X 128 dots), 13 keys, 5 LEDs - Panel language English - Message language English, German, French, Italian, Spanish, Chinese, Korean, Russian and Japanese
Printhead/Ink Tank type	Printhead and separate ink tanks
Printhead	[PF-05] Number nozzles: 2560 nozzles per color
Ink tank	[PFI-105]MBK, BK, C, M, Y, PC, PM, GY, PGY, R, G,B Capacity: 130 ml per color (Ink tanks supplied with the printer contain 90 ml of each color.)
Detection functions (Cover system)	Detects opening/closing of the top cover and ink tank cover.
Detection functions (Ink passage system)	Detects presence/absence of ink tank, ink level (dot count and electrode), presence/absence of the maintenance cartridge, waste ink full level, and opening/closing of the supply valve.
Detection functions (Carriage system)	Detects the carriage position, presence/absence of the printhead, height of the printhead, the ambient temperature, head temperature, and no ink ejection.
Detection functions (Paper path system)	Detects presence/absence of paper, leading/trailing edge of paper, paper width, skew, cutter position, height of the cutter, height of the spur, rotation of the feed roller.
Operating noise	During printing: Approx. 47 dB (A) or less During standby: Approx. 35 dB (A) or less
Operating environment	Temperature: 15 to 30 degrees centigrade Humidity: 10% to 80% without dew condensation
Print quality guaranteed environment	Temperature: 15 to 30 degrees centigrade Humidity: 10% to 80% RH
Power supply	100-120 VAC (50/60 Hz), 220-240 VAC (50/60 Hz)
Power consumption (Maximum)	During printing: Max. 100 W
Power consumption	In power save (sleep) mode: 6W or less(220-240 VAC: 7W or less) During standby: 1 W or less
Printer unit dimensions (WxDxH)	1177 x 670 x 344 mm With stand (option): 1177 x 870 x 991 mm
Weight	Approx. 51 kg

1.3.6 Product Specifications

iPF6300S

Type	Bubble jet large-sized paper printer
Feeding system	Automatic feeding of one roll media/One cut sheet (manual feed from front)/One cut sheet (manual feed from top)
Feeding capacity	- Roll media One roll at the back/Outer diameter of roll: 150 mm or less/Inner diameter of paper tube: 2 or 3 inches - Cut sheet 1 sheet
Delivery method	Delivers the media with its printed side up in the forward direction.
Sheet delivery capability	Using the stand (option) basket: - Roll media 1 sheet - Cut sheet 1 sheet
Cutter	Automatically cuts paper laterally. Cartridge-type (with round blade)

Type of media	<p>- Roll media Plain Paper, Economy Bond Paper, Universal Bond Paper, Plain Paper (High Quality), Plain Paper (High Grade), Recycled Coated Paper, Matte Coated Paper 90gsm, Coated Paper, Premium Coated Paper, Heavyweight Coated Paper, Extra Heavyweight Coated Paper, Premium Matte Paper, Glossy Photographic Paper 190gsm, Satin Photographic Paper 190gsm, Glossy Photographic Paper 240gsm, Satin Photographic Paper 240gsm, HW Glossy Photo Paper, HW Satin Photo Paper, Premium RC Photo Luster, Glossy Photo Paper, Semi-Glossy Photo Paper, Heavyweight Glossy Photo Paper 2, Heavywght SemiGlos Photo Paper 2, Poster Semi-Glossy Photo Paper, Fine Art Photo, Fine Art Heavyweight Photo, Fine Art Textured, Fine Art Watercolor, Fine Art Block Print, Graphic Canvas, Canvas Matte 2, Japanese Paper Washi, Commercial Proofing Paper, Commercial RC Proofing 210gsm, Commercial RC Proofing 270gsm, Proofing Paper, Newsprint for Proofing1, Newsprint for Proofing2, Newsprint for Proofing3, Durable Banner, Synthetic Paper, Adhesive Synthetic Paper, Flame-Resistant Cloth, Thin Fabric Banner 2, Backlit Film, Durable Backlit Film, Backprint Film, Colored Coated Paper, CAD Tracing Paper, CAD Translucent Matte Film</p> <p>- Cut sheet (manual feed from top) Plain Paper, Economy Bond Paper, Universal Bond Paper, Plain Paper (High Quality), Plain Paper (High Grade), Recycled Coated Paper, Matte Coated Paper 90gsm, High Resolution Paper, Coated Paper, Premium Coated Paper, Heavyweight Coated Paper, Extra Heavyweight Coated Paper, Premium Matte Paper, Matte Photo Paper, Glossy Photographic Paper 190gsm, Satin Photographic Paper 190gsm, Glossy Photographic Paper 240gsm, Satin Photographic Paper 240gsm, HW Glossy Photo Paper, HW Satin Photo Paper, Premium RC Photo Luster, Glossy Photo Paper, Semi-Glossy Photo Paper, Heavyweight Glossy Photo Paper 2, Heavywght SemiGlos Photo Paper 2, Poster Semi-Glossy Photo Paper, Photo Paper Plus, Photo Paper Plus Semi-Gloss, Fine Art Photo, Fine Art Heavyweight Photo, Fine Art Textured, Fine Art Watercolor, Fine Art Block Print, Graphic Canvas, Canvas Matte 2, Japanese Paper Washi, Commercial Proofing Paper, Commercial RC Proofing 210gsm, Commercial RC Proofing 270gsm, Proofing Paper, Newsprint for Proofing1, Newsprint for Proofing2, Newsprint for Proofing3, Durable Banner, Synthetic Paper, Adhesive Synthetic Paper, Flame-Resistant Cloth, Thin Fabric Banner 2, Backlit Film, Durable Backlit Film, Backprint Film, Colored Coated Paper, CAD Tracing Paper, CAD Translucent Matte Film</p> <p>- Cut sheet (manual feed from front) POP Board</p>
Supported thickness	<p>Roll media: 0.07 to 0.8 mm Manual feed from top: 0.07 to 0.8 mm Manual feed from front: 0.5 to 1.5 mm</p>
Media size (Roll media)	<p>Width:203mm X 610mm(24inch) Lengh:203mm X 18m Maximum outside diameter:150 mm</p>
Media size (Cut sheet)	<p>- Manual feed from top Width:203mm(8inch) X 610mm(24inch) Lengh:279mm X 1600mm - Manual feed from front Width:250mm(8inch) X 610mm(24inch) Lengh:350mm X 914mm</p>
Printable area (Roll media)	<p>Area excluding 3mm from the leading edge, 3 mm from the trailing edge, and 3 mm from the left and right edges. Borderless printing: 0 mm from the leading edge, trailing edge, and left and right edges.</p> <p>Width of media allowing borderless printing: 10"(254mm), B4(257mm), 14"(355.6mm), 16"(406.4mm), A2(420mm), A2+/17"(431.8mm), B2(515mm), A1(594mm), 24"(609.6mm)</p> <p>Media type allowing borderless printing: Premium Coated Paper, Heavyweight Coated Paper, Extra Heavyweight Coated Paper, Premium Matte Paper, Glossy Photographic Paper 190gsm, Satin Photographic Paper 190gsm, Glossy Photographic Paper 240gsm, Satin Photographic Paper 240gsm, HW Glossy Photo Paper, HW Satin Photo Paper, Premium RC Photo Luster, Glossy Photo Paper, Semi-Glossy Photo Paper, Heavyweight Glossy Photo Paper 2, Heavywght SemiGlos Photo Paper 2, Poster Semi-Glossy Photo Paper, Fine Art Photo, Fine Art Heavyweight Photo, Fine Art Textured, Fine Art Watercolor, Fine Art Block Print</p>
Printable area (Cut sheet)	<p>Area excluding 3 mm from the leading edge, 3 mm from the trailing edge (23 mm when supplied from manual feed from top or selected the fine art), and 3 mm from the left and right edges.</p>
Printing recommendation area (Roll media)	<p>Area excluding 20 mm from leading edge, 5 mm from the trailing edge and 5 mm from the left and right edges (standard size).</p>
Printing recommendation area (Cut sheet)	<p>Area excluding 20 mm from the leading edge, 27 mm from the trailing edge, and 5 mm from the left and right edges (standard size).</p>
Memory	<p>384MB Increase of memory: none</p>
Hard disk drive	<p>160GB (2.5inch, 5400rpm, S-ATA I/F)</p>

Firmware	Flash ROM (update from USB or Ethernet) - Printer description language GARO (Graphic Arts language with Raster Operation)
Interface	USB2.0, Ethernet
Operation panel	LCD (160 X 128 dots), 13 keys, 5 LEDs - Panel language English - Message language English, German, French, Italian, Spanish, Chinese, Korean, Russian and Japanese
Printhead/Ink Tank type	Printhead and separate ink tanks
Printhead	[PF-05] - Number nozzles C, PC, PM, GY: 2560 nozzles per color X2 - Number nozzles BK, MBK, M, Y: 2560 nozzles per color
Ink tank	[PFI-105]MBK, BK, C, M, Y, PC, PM, GY Capacity: 130 ml per color (Ink tanks supplied with the printer contain 90 ml of each color.)
Detection functions (Cover system)	Detects opening/closing of the top cover and ink tank cover.
Detection functions (Ink passage system)	Detects presence/absence of ink tank, ink level (dot count and electrode), presence/absence of the maintenance cartridge, waste ink full level, and opening/closing of the supply valve.
Detection functions (Carriage system)	Detects the carriage position, presence/absence of the printhead, height of the printhead, the ambient temperature, head temperature, and no ink ejection.
Detection functions (Paper path system)	Detects presence/absence of paper, leading/trailing edge of paper, paper width, skew, cutter position, height of the cutter, height of the spur, rotation of the feed roller.
Operating noise	During printing: Approx. 47 dB (A) or less During standby: Approx. 35 dB (A) or less
Operating environment	Temperature: 15 to 30 degrees centigrade Humidity: 10% to 80% without dew condensation
Print quality guaranteed environment	Temperature: 15 to 30 degrees centigrade Humidity: 10% to 80%RH
Power supply	100-120 VAC (50/60 Hz), 220-240 VAC (50/60 Hz)
Power consumption (Maximum)	During printing: Max. 100 W
Power consumption	In power save (sleep) mode: 6W or less(220-240 VAC: 7W or less) During standby: 1 W or less
Printer unit dimensions (WxDxH)	1177 x 670 x 344 mm With stand (option): 1177 x 870 x 991 mm
Weight	Approx. 51 kg

1.4 Detailed Specifications

1.4.1 Print Speed and Direction

iPF6100 / iPF6200 / iPF6000S

T-1-6

Media Type		Print Priority	Print Quality	Print-Pass	Printing direction	Print Resolution (dpi)	Used BK ink
Plain Paper/ Recycled Paper	Plain Paper	Office Document	Standard	4	Bi-directional	1200x1200	MBK
		Line Document/ Text	Draft	2	Bi-directional	1200x1200	MBK
			Standard	4	Bi-directional	1200x1200	MBK
		Image	Draft	2	Bi-directional	1200x1200	MBK
			Standard	4	Bi-directional	1200x1200	MBK
	High		8	Bi-directional	2400x1200	MBK	
	Plain Paper (High Quality)	Office Document	Standard	4	Bi-directional	1200x1200	MBK
		Line Document/ Text	Draft	2	Bi-directional	1200x1200	MBK
			Standard	4	Bi-directional	1200x1200	MBK
		Image	Draft	2	Bi-directional	1200x1200	MBK
			Standard	4	Bi-directional	1200x1200	MBK
	High		8	Bi-directional	2400x1200	MBK	
	Plain Paper (High Grade)	Office Document	Standard	4	Bi-directional	1200x1200	MBK
		Line Document/ Text	Draft	2	Bi-directional	1200x1200	MBK
			Standard	4	Bi-directional	1200x1200	MBK
		Image	Draft	2	Bi-directional	1200x1200	MBK
			Standard	4	Bi-directional	1200x1200	MBK
	High		8	Bi-directional	2400x1200	MBK	
	Economy Bond Paper	Office Document	Standard	4	Bi-directional	1200x1200	MBK
		Line Document/ Text	Draft	2	Bi-directional	1200x1200	MBK
			Standard	4	Bi-directional	1200x1200	MBK
		Image	Draft	2	Bi-directional	1200x1200	MBK
			Standard	4	Bi-directional	1200x1200	MBK
	High		8	Bi-directional	2400x1200	MBK	
	Universal Bond Paper	Office Document	Standard	4	Bi-directional	1200x1200	MBK
		Line Document/ Text	Draft	2	Bi-directional	1200x1200	MBK
			Standard	4	Bi-directional	1200x1200	MBK
Image		Draft	2	Bi-directional	1200x1200	MBK	
		Standard	4	Bi-directional	1200x1200	MBK	
	High	8	Bi-directional	2400x1200	MBK		
Standard Paper 1569B 80g	Office Document	Standard	4	Bi-directional	1200x1200	MBK	
	Line Document/ Text	Draft	2	Bi-directional	1200x1200	MBK	
		Standard	4	Bi-directional	1200x1200	MBK	
	Image	Draft	2	Bi-directional	1200x1200	MBK	
		Standard	4	Bi-directional	1200x1200	MBK	
High		8	Bi-directional	2400x1200	MBK		
Standard Paper 1570B 90g	Office Document	Standard	4	Bi-directional	1200x1200	MBK	
	Line Document/ Text	Draft	2	Bi-directional	1200x1200	MBK	
		Standard	4	Bi-directional	1200x1200	MBK	
	Image	Draft	2	Bi-directional	1200x1200	MBK	
		Standard	4	Bi-directional	1200x1200	MBK	
High		8	Bi-directional	2400x1200	MBK		

Media Type		Print Priority	Print Quality	Print-Pass	Printing direction	Print Resolution (dpi)	Used BK ink
Coated Paper	Coated Paper	Image	Standard	4	Bi-directional	1200x1200	MBK
			High	8	Bi-directional	2400x1200	MBK
			Highest	12	Bi-directional	2400x1200	MBK
	Heavyweight Coated Paper	Image	Standard	4	Bi-directional	1200x1200	MBK
			High	8	Bi-directional	2400x1200	MBK
			Highest	12	Bi-directional	2400x1200	MBK
	High Resolution Paper	Image	Standard	4	Bi-directional	1200x1200	MBK
			High	8	Bi-directional	2400x1200	MBK
			Highest	12	Bi-directional	2400x1200	MBK
	Premium Matte Paper	Image	Standard	8	Bi-directional	1200x1200	MBK
			High	12	Bi-directional	2400x1200	MBK
			Highest	16	Bi-directional	2400x1200	MBK
	Matte Photo Paper	Image	Standard	8	Bi-directional	1200x1200	MBK
			High	12	Bi-directional	2400x1200	MBK
			Highest	16	Bi-directional	2400x1200	MBK
	Extra Heavyweight Coated Paper	Image	Standard	4	Bi-directional	1200x1200	MBK
			High	8	Bi-directional	2400x1200	MBK
			Highest	12	Bi-directional	2400x1200	MBK
	Recycled Coated Paper	Image	Standard	4	Bi-directional	1200x1200	MBK
			High	8	Bi-directional	2400x1200	MBK
			Highest	12	Bi-directional	2400x1200	MBK
	Premium Coated Paper	Image	Standard	4	Bi-directional	1200x1200	MBK
			High	8	Bi-directional	2400x1200	MBK
			Highest	12	Bi-directional	2400x1200	MBK
	LightWeight Coated paper	Image	Standard	4	Bi-directional	1200x1200	MBK
			High	8	Bi-directional	2400x1200	MBK
			Highest	12	Bi-directional	2400x1200	MBK
	High Resolution Barrier Paper	Image	Standard	4	Bi-directional	1200x1200	MBK
			High	8	Bi-directional	2400x1200	MBK
			Highest	12	Bi-directional	2400x1200	MBK
	Matt Coated Paper	Image	Standard	4	Bi-directional	1200x1200	MBK
			High	8	Bi-directional	2400x1200	MBK
			Highest	12	Bi-directional	2400x1200	MBK
	Extra Matt Coated Paper	Image	Standard	4	Bi-directional	1200x1200	MBK
			High	8	Bi-directional	2400x1200	MBK
			Highest	12	Bi-directional	2400x1200	MBK
Opaque paper	Image	Standard	4	Bi-directional	1200x1200	MBK	
		High	8	Bi-directional	2400x1200	MBK	
		Highest	12	Bi-directional	2400x1200	MBK	
Matt Coated Paper	Image	Standard	4	Bi-directional	1200x1200	MBK	
		High	8	Bi-directional	2400x1200	MBK	
		Highest	12	Bi-directional	2400x1200	MBK	
Photo Realistic Paper	Image	Standard	4	Bi-directional	1200x1200	MBK	
		High	8	Bi-directional	2400x1200	MBK	
		Highest	12	Bi-directional	2400x1200	MBK	

Media Type		Print Priority	Print Quality	Print-Pass	Printing direction	Print Resolution (dpi)	Used BK ink
Photo Paper	Glossy Photo Paper	Image	Standard	8	Bi-directional	1200x1200	PBK
			High	12	Bi-directional	2400x1200	PBK
			Highest	16	Bi-directional	2400x1200	PBK
	Semi-Glossy Photo Paper	Image	Standard	8	Bi-directional	1200x1200	PBK
			High	12	Bi-directional	2400x1200	PBK
			Highest	16	Bi-directional	2400x1200	PBK
	Photo Paper Plus	Image	Standard	8	Bi-directional	1200x1200	PBK
			High	12	Bi-directional	2400x1200	PBK
			Highest	16	Bi-directional	2400x1200	PBK
	Photo Paper Plus Semi-Gloss	Image	Standard	8	Bi-directional	1200x1200	PBK
			High	12	Bi-directional	2400x1200	PBK
			Highest	16	Bi-directional	2400x1200	PBK
	Heavyweight Glossy Photo Paper 2	Image	Standard	8	Bi-directional	1200x1200	PBK
			High	12	Bi-directional	2400x1200	PBK
			Highest	16	Bi-directional	2400x1200	PBK
	Heavywght SemiGlos Photo Paper 2	Image	Standard	8	Bi-directional	1200x1200	PBK
			High	12	Bi-directional	2400x1200	PBK
			Highest	16	Bi-directional	2400x1200	PBK
	Poster Semi-Glossy Photo Paper	Image	Standard	8	Bi-directional	1200x1200	PBK
			High	12	Bi-directional	2400x1200	PBK
			Highest	16	Bi-directional	2400x1200	PBK
	Premium RC Photo Luster	Image	Standard	8	Bi-directional	1200x1200	PBK
			High	12	Bi-directional	2400x1200	PBK
			Highest	16	Bi-directional	2400x1200	PBK
	Instant Dry Papers Glossy 200g	Image	Standard	8	Bi-directional	1200x1200	PBK
			High	12	Bi-directional	2400x1200	PBK
			Highest	16	Bi-directional	2400x1200	PBK
	Instant Dry Papers Satin 200g	Image	Standard	8	Bi-directional	1200x1200	PBK
			High	12	Bi-directional	2400x1200	PBK
			Highest	16	Bi-directional	2400x1200	PBK
Photo paper High Glossy 250g	Image	Standard	8	Bi-directional	1200x1200	PBK	
		High	12	Bi-directional	2400x1200	PBK	
		Highest	16	Bi-directional	2400x1200	PBK	
Photo paper Semi Matt 250g	Image	Standard	8	Bi-directional	1200x1200	PBK	
		High	12	Bi-directional	2400x1200	PBK	
		Highest	16	Bi-directional	2400x1200	PBK	
Photo paper Satin 240g	Image	Standard	8	Bi-directional	1200x1200	PBK	
		High	12	Bi-directional	2400x1200	PBK	
		Highest	16	Bi-directional	2400x1200	PBK	
Photo paper Pearl 260g	Image	Standard	8	Bi-directional	1200x1200	PBK	
		High	12	Bi-directional	2400x1200	PBK	
		Highest	16	Bi-directional	2400x1200	PBK	

Media Type		Print Priority	Print Quality	Print-Pass	Printing direction	Print Resolution (dpi)	Used BK ink
Art Paper	Fine Art Photo	Image	Standard	8	Bi-directional	1200x1200	MBK
			High	12	Bi-directional	2400x1200	MBK
			Highest	16	Bi-directional	2400x1200	MBK
	Fine Art Heavyweight Photo	Image	Standard	8	Bi-directional	1200x1200	MBK
			High	12	Bi-directional	2400x1200	MBK
			Highest	16	Bi-directional	2400x1200	MBK
	Fine Art Textured	Image	Standard	8	Bi-directional	1200x1200	MBK
			High	12	Bi-directional	2400x1200	MBK
			Highest	16	Bi-directional	2400x1200	MBK
	Fine Art Block Print	Image	Standard	8	Bi-directional	1200x1200	MBK
			High	12	Bi-directional	2400x1200	MBK
			Highest	16	Bi-directional	2400x1200	MBK
	Fine Art Watercolor	Image	Standard	8	Bi-directional	1200x1200	MBK
			High	12	Bi-directional	2400x1200	MBK
			Highest	16	Bi-directional	2400x1200	MBK
	Canvas Matte 2	Image	Standard	8	Bi-directional	1200x1200	MBK
			High	12	Bi-directional	2400x1200	MBK
			Highest	16	Bi-directional	2400x1200	MBK
	Japanese Paper Washi	Image	Standard	8	Bi-directional	1200x1200	MBK
			High	12	Bi-directional	2400x1200	MBK
			Highest	16	Bi-directional	2400x1200	MBK
	Graphic Matte Canvas	Image	Standard	8	Bi-directional	1200x1200	MBK
			High	12	Bi-directional	2400x1200	MBK
			Highest	16	Bi-directional	2400x1200	MBK
	Art paper smooth 225g	Image	Standard	8	Bi-directional	1200x1200	MBK
			High	12	Bi-directional	2400x1200	MBK
			Highest	16	Bi-directional	2400x1200	MBK
Art paper embossed 225g	Image	Standard	8	Bi-directional	1200x1200	MBK	
		High	12	Bi-directional	2400x1200	MBK	
		Highest	16	Bi-directional	2400x1200	MBK	
Art Paper Extra Smooth 250g	Image	Standard	8	Bi-directional	1200x1200	MBK	
		High	12	Bi-directional	2400x1200	MBK	
		Highest	16	Bi-directional	2400x1200	MBK	
Water resistant paper Art Canvas	Image	Standard	8	Bi-directional	1200x1200	MBK	
		High	12	Bi-directional	2400x1200	MBK	
		Highest	16	Bi-directional	2400x1200	MBK	
Proofing Paper	Proofing Paper	Image	Standard	8	Bi-directional	1200x1200	PBK
			High	12	Bi-directional	2400x1200	PBK
			Highest	16	Bi-directional	2400x1200	PBK
	Professional Proof and Photo Glossy 195g	Image	Standard	8	Bi-directional	1200x1200	PBK
			High	12	Bi-directional	2400x1200	PBK
			Highest	16	Bi-directional	2400x1200	PBK
	Professional Proof and Photo Semiglossy 195g	Image	Standard	8	Bi-directional	1200x1200	PBK
			High	12	Bi-directional	2400x1200	PBK
			Highest	16	Bi-directional	2400x1200	PBK
	Professional Proof and Photo Semigloss 255g	Image	Standard	8	Bi-directional	1200x1200	PBK
			High	12	Bi-directional	2400x1200	PBK
			Highest	16	Bi-directional	2400x1200	PBK
Film Paper	Backprint Film	Image	Standard	8	Bi-directional	1200x1200	PBK
			High	12	Bi-directional	2400x1200	PBK
			Highest	16	Bi-directional	2400x1200	PBK
	Backlit Film	Image	Standard	8	Bi-directional	1200x1200	MBK
			High	12	Bi-directional	2400x1200	MBK
			Highest	16	Bi-directional	2400x1200	MBK
	Pop-up Gloss Film	Image	Standard	8	Bi-directional	2400x1200	PBK
			High	16	Bi-directional	2400x1200	PBK
	Universal Opaque White Film	Image	Standard	8	Bi-directional	2400x1200	PBK
			High	16	Bi-directional	2400x1200	PBK
	Outdoor Backlit	Image	Standard	8	Bi-directional	1200x1200	MBK
			High	12	Bi-directional	2400x1200	MBK
Highest			16	Bi-directional	2400x1200	MBK	

Media Type		Print Priority	Print Quality	Print-Pass	Printing direction	Print Resolution (dpi)	Used BK ink
Mat Film Paper	Scrim Banner 370g	Image	Standard	6	Bi-directional	1200x1200	MBK
			High	8	Bi-directional	2400x1200	MBK
			Highest	16	Bi-directional	2400x1200	MBK
	Adhesive Matt Stretch Vinyl	Image	Standard	6	Bi-directional	1200x1200	MBK
			High	8	Bi-directional	2400x1200	MBK
			Highest	16	Bi-directional	2400x1200	MBK
Thin Fabric Banner	Thin Fabric Banner 2	Image	Standard	6	Bi-directional	1200x1200	MBK
			High	8	Bi-directional	2400x1200	MBK
			Highest	16	Bi-directional	2400x1200	MBK
	Flame-Resistant Cloth	Image	Standard	6	Bi-directional	1200x1200	MBK
			High	8	Bi-directional	2400x1200	MBK
			Highest	16	Bi-directional	2400x1200	MBK
Synthetic Paper	Synthetic Paper	Image	Standard	6	Bi-directional	1200x1200	MBK
			High	8	Bi-directional	2400x1200	MBK
			Highest	16	Bi-directional	2400x1200	MBK
	Adhesive Synthetic Paper	Image	Standard	6	Bi-directional	1200x1200	MBK
			High	8	Bi-directional	2400x1200	MBK
			Highest	16	Bi-directional	2400x1200	MBK
	Outdoor Polypropylene (Durable Banner)	Image	Standard	6	Bi-directional	1200x1200	MBK
			High	8	Bi-directional	2400x1200	MBK
			Highest	16	Bi-directional	2400x1200	MBK
Adhesive Matt Paper	High Resolution Graphic paper Self ADH	Image	Standard	6	Bi-directional	1200x1200	MBK
			High	8	Bi-directional	2400x1200	MBK
			Highest	16	Bi-directional	2400x1200	MBK
Board	POP Board	Image	Standard	6	Bi-directional	1200x1200	MBK
			High	8	Bi-directional	2400x1200	MBK
			Highest	16	Bi-directional	2400x1200	MBK
CAD	CAD Tracing Paper	Line Document/ Text	Draft	2	Bi-directional	1200x1200	MBK
			Standard	4	Bi-directional	1200x1200	MBK
			High	8	Bi-directional	2400x1200	MBK
	CAD Translucent Matte Film	Line Document/ Text	Draft	2	Bi-directional	1200x1200	MBK
			Standard	4	Bi-directional	1200x1200	MBK
			High	8	Bi-directional	2400x1200	MBK
Special	Special 1	Image	Standard	8	Bi-directional	1200x1200	PBK
			High	12	Bi-directional	2400x1200	PBK
			Highest	16	Bi-directional	2400x1200	PBK
	Special 2	Image	Standard	8	Bi-directional	1200x1200	PBK
			High	12	Bi-directional	2400x1200	PBK
			Highest	16	Bi-directional	2400x1200	PBK
	Special 3	Image	Standard	8	Bi-directional	1200x1200	PBK
			High	12	Bi-directional	2400x1200	PBK
			Highest	16	Bi-directional	2400x1200	PBK
	Special 4	Image	Standard	8	Bi-directional	1200x1200	PBK
			High	12	Bi-directional	2400x1200	PBK
			Highest	16	Bi-directional	2400x1200	PBK
	Special 5	Image	Standard	8	Bi-directional	1200x1200	PBK
			High	12	Bi-directional	2400x1200	PBK
			Highest	16	Bi-directional	2400x1200	PBK
	Special 6	Image	Standard	8	Bi-directional	1200x1200	MBK
			High	12	Bi-directional	2400x1200	MBK
			Highest	16	Bi-directional	2400x1200	MBK
	Special 7	Image	Standard	8	Bi-directional	1200x1200	MBK
			High	12	Bi-directional	2400x1200	MBK
			Highest	16	Bi-directional	2400x1200	MBK
	Special 8	Image	Standard	8	Bi-directional	1200x1200	MBK
			High	12	Bi-directional	2400x1200	MBK
			Highest	16	Bi-directional	2400x1200	MBK
	Special 9	Image	Standard	8	Bi-directional	1200x1200	MBK
			High	12	Bi-directional	2400x1200	MBK
			Highest	16	Bi-directional	2400x1200	MBK
	Special 10	Image	Standard	8	Bi-directional	1200x1200	MBK
			High	12	Bi-directional	2400x1200	MBK
			Highest	16	Bi-directional	2400x1200	MBK

1.4.2 Interface Specifications

iPF6200 / iPF6000S

a. USB (standard)

- (1) Interface type
USB 2.0 Hi-Speed (Full speed (12 Mbits/sec), High speed (480 Mbits/sec))
- (2) Data transfer system
Control transfer
Bulk transfer
- (3) Signal level
Compliant with the USB standard.
- (4) Interface cable
Twisted-pair shielded cable, 5.0 m max.
Compliant with the USB standard.
Wire materials: AWG No.28, data wire pair (AWF: American Wire Gauge)
AWG No.20 to No.28, power distribution wire pair
- (5) Interface connector
Printer side: Series B receptacle compliant with USB standard
Cable side: Series B plug compliant with USB standard

b. Network (standard)

- (1) Interface type
Interface compliant with IEEE802.3
- (2) Data transfer system
10Base-T/100Base-TX
- (3) Signal level
Input: Threshold
10Base-T: Max. +585 mV, Min. +300 mV
100Base-TX: Turn-on +1000 mV diff pk-pk, Turn-off +200 mV diff pk-pk
Output:
10Base-T: +2.2 V to +2.8 V
100Base-TX: +0.95 to +1.05 V
- (4) Interface cable
Category 5 (UTP or FTP) cable, 100 m or shorter
Compliant with ANSI/EIA/TIA-568A or ANSI/EIA/TIA-568B
- (5) Interface connector
Printer side: Compliant with IEEE802.3, ANSI X3.263, ISO/IEC60603-7

1.4.3 Interface Specifications

iPF6300 / iPF6350 / iPF6300S

a. USB (standard)

- (1) Interface type
USB 2.0 Hi-Speed (Full speed (12 Mbits/sec), High speed (480 Mbits/sec))
- (2) Data transfer system
Control transfer
Bulk transfer
- (3) Signal level
Compliant with the USB standard.
- (4) Interface cable
Twisted-pair shielded cable, 5.0 m max.
Compliant with the USB standard.
Wire materials: AWG No.28, data wire pair (AWF: American Wire Gauge)
AWG No.20 to No.28, power distribution wire pair
- (5) Interface connector
Printer side: Series B receptacle compliant with USB standard
Cable side: Series B plug compliant with USB standard

b. Network (standard)

- (1) Interface type
Interface compliant with IEEE802.3
- (2) Data transfer system
IEEE802.0 10Base-T, IEEE802.3u 100Base-TX/Auto-Negotiation, IEEE802.3ab 1000Base-T/Auto-Negotiation, IEEE802.3x Full Duplex
- (3) Interface cable
Category 5 (UTP or FTP) cable, 100 m or shorter
Compliant with ANSI/EIA/TIA-568A or ANSI/EIA/TIA-568B
- (4) Interface connector
Printer side: Compliant with IEEE802.3, ANSI X3.263, ISO/IEC60603-7
- (5) Protocol
IPX/SPX (Netware4.2(J), 5.1(J), 6.0(J)), SNMP, TCP/IP, AppleTalk, HTTP

1.4.4 Interface Specifications

iPF6100

a. USB (standard)

- (1) Interface type
USB 2.0 Hi-Speed (Full speed (12 Mbits/sec), High speed (480 Mbits/sec))
- (2) Data transfer system
Control transfer
Bulk transfer
- (3) Signal level
Compliant with the USB standard.
- (4) Interface cable
Twisted-pair shielded cable, 5.0 m max.
Compliant with the USB standard.
Wire materials: AWG No.28, data wire pair (AWF: American Wire Gauge)
AWG No.20 to No.28, power distribution wire pair
- (5) Interface connector
Printer side: Series B receptacle compliant with USB standard
Cable side: Series B plug compliant with USB standard

b. Network (standard)

- (1) Interface type
Interface compliant with IEEE802.3
- (2) Data transfer system
10Base-T/100Base-TX
- (3) Signal level
Input: Threshold
10Base-T: Max. +585 mV, Min. +300 mV
100Base-TX: Turn-on +1000 mV diff pk-pk, Turn-off +200 mV diff pk-pk
Output:
10Base-T: +2.2 V to +2.8 V
100Base-TX: +0.95 to +1.05 V
- (4) Interface cable
Category 5 (UTP or FTP) cable, 100 m or shorter
Compliant with ANSI/EIA/TIA-568A or ANSI/EIA/TIA-568B
- (5) Interface connector
Printer side: Compliant with IEEE802.3, ANSI X3.263, ISO/IEC60603-7

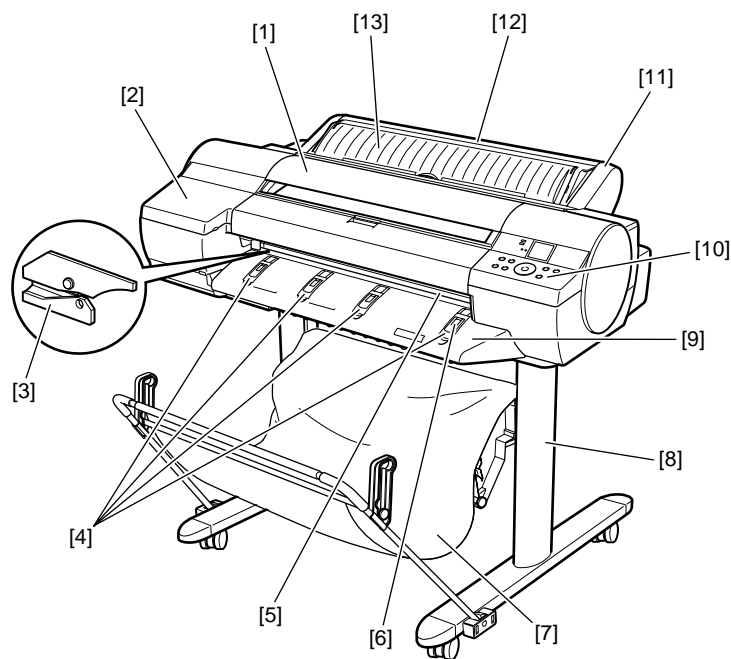
c. IEEE1394 (option)

- (1) Interface type
Interface compliant with IEEE1394-1995, P1394a (Version 2.0)
- (2) Data transfer system
Asynchronous transfer
- (3) Signal level
Input:
Differential input voltage:
During S100 settlement: +173 mV to +260 mV
During data reception: +142 mV to +260 mV
During S200 settlement: +171 mV to +262 mV
During data reception: +132 mV to +260 mV
During S400 settlement: +168 mV to +265 mV
During data reception: +118 mV to +260 mV
Output:
Differential output voltage: +172 mV to +265 mV
- (4) Interface cable
Twisted-pair shielded cable, 4.5 m max.
Compliant with IEEE1394-1995 standard or P1394a (Version 2.0) standard
- (5) Interface connector
Printer side: 6-pin connector (socket) compliant with IEEE1394 standard
Cable side: 6-pin connector (plug) compliant with IEEE1394 standard
Cable side: RJ-45 type compliant with ANSI/EIA/TIA-568A or ANSI/EIA/TIA-568B

1.5 Names and Functions of Components

1.5.1 Front

iPF6100 / iPF6200 / iPF6000S

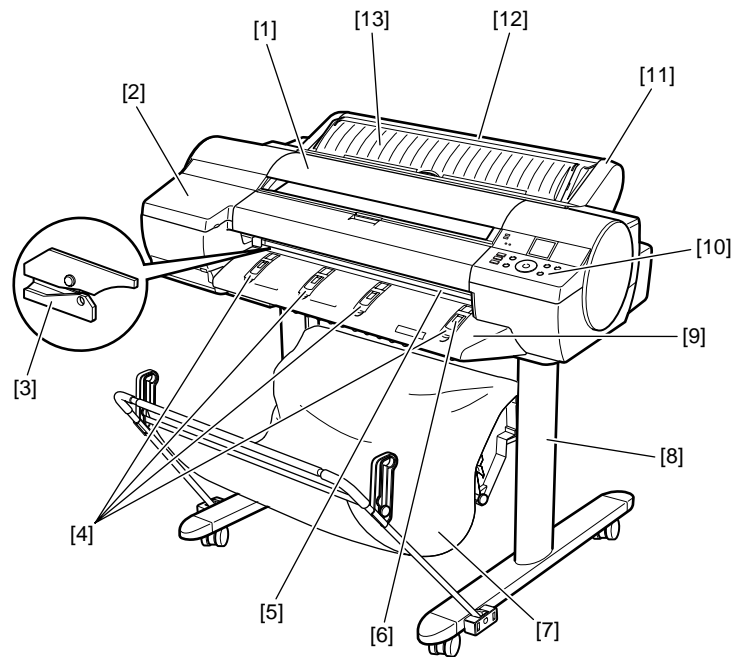


F-1-35

- [1] Top cover
Open this cover when installing the printhead or remove the media jammed inside the printer.
- [2] Ink tank cover
Open this cover when replacing ink tanks.
- [3] Cutter
A round-blade cutter cuts roll media automatically.
- [4] Front manual feed guides
Erect all these guides to print on thick paper. Place thick paper along the guides and insert it up to the alignment lines while pressing the paper to the right side.
- [5] Paper eject slot (paper tray front loading port)
All printed matter is ejected from this port. In loading thick paper, insert it into this port.
- [6] Paper alignment line
Load thick paper in a paper tray to stay parallel with this line.
- [7] Basket
Receives printed matter as it is ejected. Only one sheet can be housed in the basket.
- [8] Stand
The base on which the printer is mounted. The stand equipped with casters is easy to move.
- [9] Output guide
Holds ejected paper from lifting.
- [10] Operation panel
Contains the power button, online button display and so on.
- [11] Roll feed unit
Load roll media on this unit.
- [12] Roll feed unit cover
Load roll media with this cover open.
- [13] Paper tray cover
Load cut sheet at the paper tray top loading port with this cover open. This cover is opened, and the cut sheet is set at top manual feed slot.

1.5.2 Front

iPF6300 / iPF6350 / iPF6300S

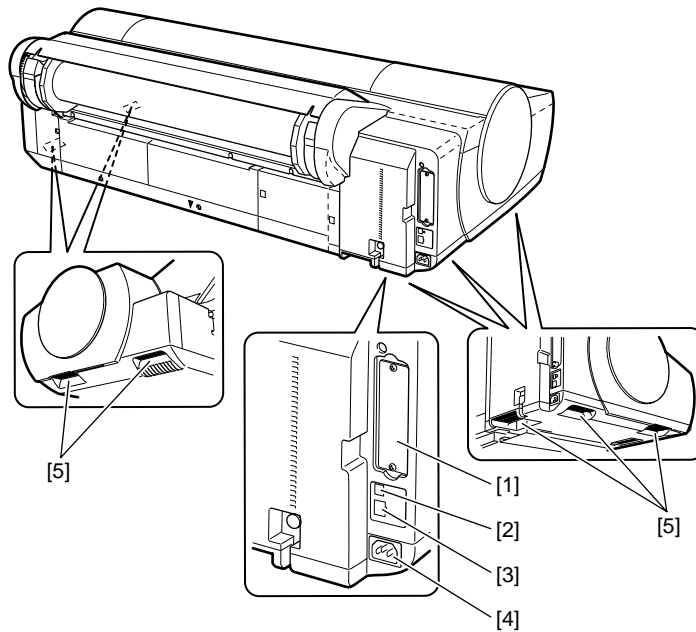


F-1-36

- [1] Top cover
Open this cover when installing the printhead or remove the media jammed inside the printer.
- [2] Ink tank cover
Open this cover when replacing ink tanks.
- [3] Cutter
A round-blade cutter cuts roll media automatically.
- [4] Front manual feed guides
Erect all these guides to print on thick paper. Place thick paper along the guides and insert it up to the alignment lines while pressing the paper to the right side.
- [5] Paper eject slot (paper tray front loading port)
All printed matter is ejected from this port. In loading thick paper, insert it into this port.
- [6] Paper alignment line
Load thick paper in a paper tray to stay parallel with this line.
- [7] Basket
Receives printed matter as it is ejected. Only one sheet can be housed in the basket.
- [8] Stand
The base on which the printer is mounted. The stand equipped with casters is easy to move.
- [9] Output guide
Holds ejected paper from lifting.
- [10] Operation panel
Contains the power button, online button display and so on.
- [11] Roll feed unit
Load roll media on this unit.
- [12] Roll feed unit cover
Load roll media with this cover open.
- [13] Paper tray cover
Load cut sheet at the paper tray top loading port with this cover open. This cover is opened, and the cut sheet is set at top manual feed slot.

1.5.3 Rear

iPF6100

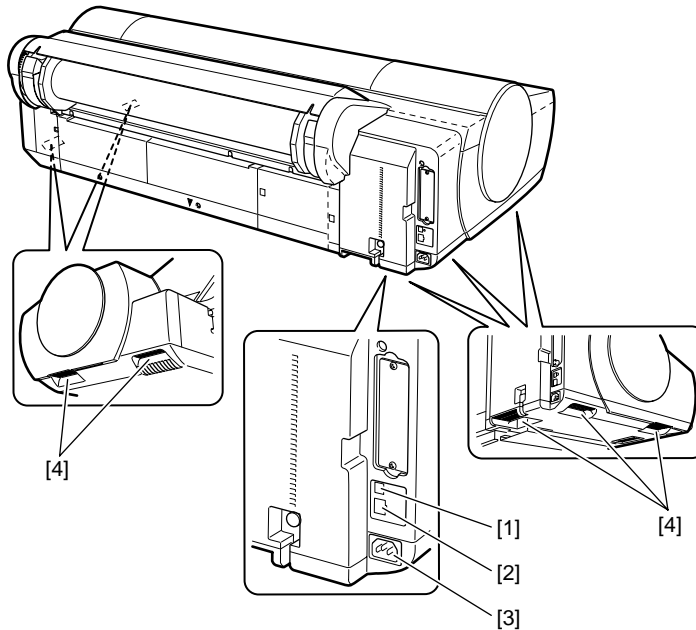


F-1-37

- [1] Expansion board slot
Insert the IEEE1394 (FireWire) expansion board (option) in this slot.
- [2] USB port
Connect the USB cable to this port.
- [3] Ethernet connector
Connect the Ethernet cable to this connector.
- [4] Power connector
Connect the power cord to this connector.
- [5] Carrying handle (5)
The printer is carried with this handles of a right and left bottom.

1.5.4 Rear

iPF6200 / iPF6000S / iPF6300 / iPF6350 / iPF6300S

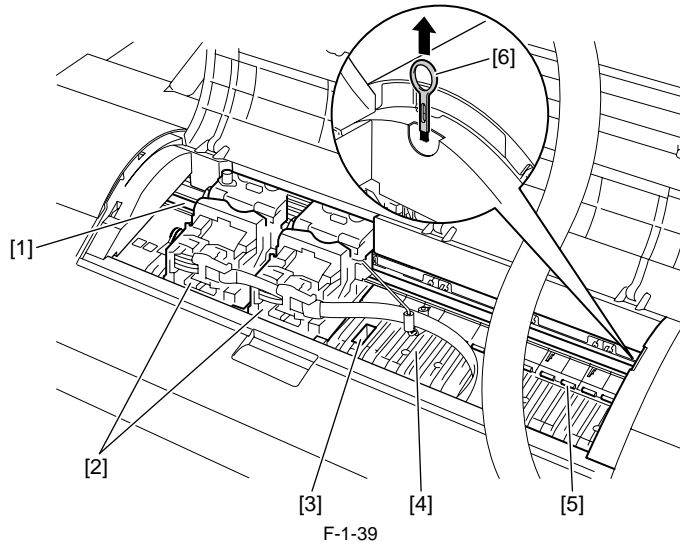


F-1-38

- [1] USB port
Connect the USB cable to this port.
- [2] Ethernet connector
Connect the Ethernet cable to this connector.
- [3] Power connector
Connect the power cord to this connector.
- [4] Carrying handle (5)
The printer is carried with this handles of a right and left bottom.

1.5.5 Top Cover (Inside)

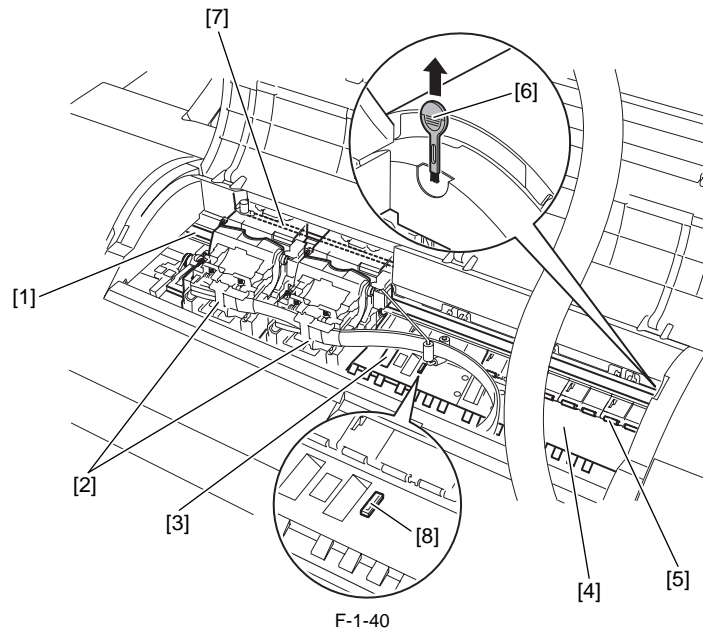
iPF6100 / iPF6200 / iPF6000S



- F-1-39
- [1] Carriage shaft
The carriage travels in this area.
 - [2] Carriage
Moves the printheads.
 - [3] Borderless printing ink receiving channel
Receives inks overflowing the edges of the paper during borderless printing.
 - [4] Platen
Paper and the printheads travel over the platen to execute printing. Suction holes on the surface prevent the paper from lifting.
 - [5] Pinch roller
A vital part needed to feed paper.
 - [6] Cleaner brush
Use this brush to wipe off chad over the plant when cleaning the inside of the top cover.

1.5.6 Top Cover (Inside)

iPF6300 / iPF6350 / iPF6300S

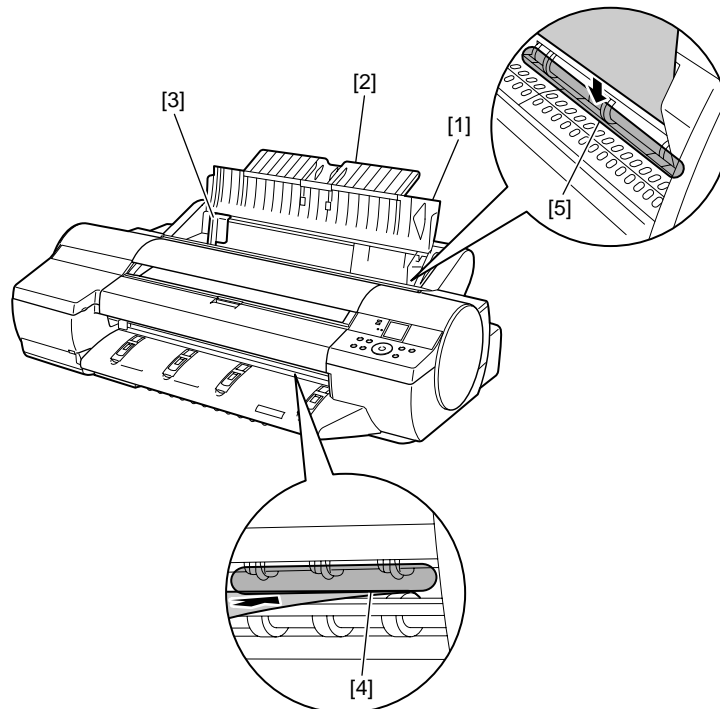


F-1-40

- [1] Carriage shaft
The carriage travels in this area.
- [2] Carriage
Moves the printheads.
- [3] Borderless printing ink receiving channel
Receives inks overflowing the edges of the paper during borderless printing.
- [4] Platen
Paper and the printheads travel over the platen to execute printing. Suction holes on the surface prevent the paper from lifting.
- [5] Pinch roller
A vital part needed to feed paper.
- [6] Cleaner brush
Use this brush to wipe off chad over the plant when cleaning the inside of the top cover.
- [7] Linear scale
This is an important component used to detect the carriage position. Never touch it when cleaning the parts or removing jammed media inside the upper cover.
- [8] Switch
Set the switch to the side opposite of the circle mark if the edges of printed images are blurred. Set the switch to the circle mark side before borderless printing.

1.5.7 Manual Loading Area

iPF6100 / iPF6200 / iPF6000S



F-1-41

- [1] Paper tray cover
In loading paper in a paper tray, open this cover.
- [2] Paper support
In loading paper in a paper tray, open the paper tray cover and then this tray.
- [3] Width guides

In loading cut sheet, move the guide to adjust to the paper size.

[4] Paper tray front loading port (Paper eject slot)

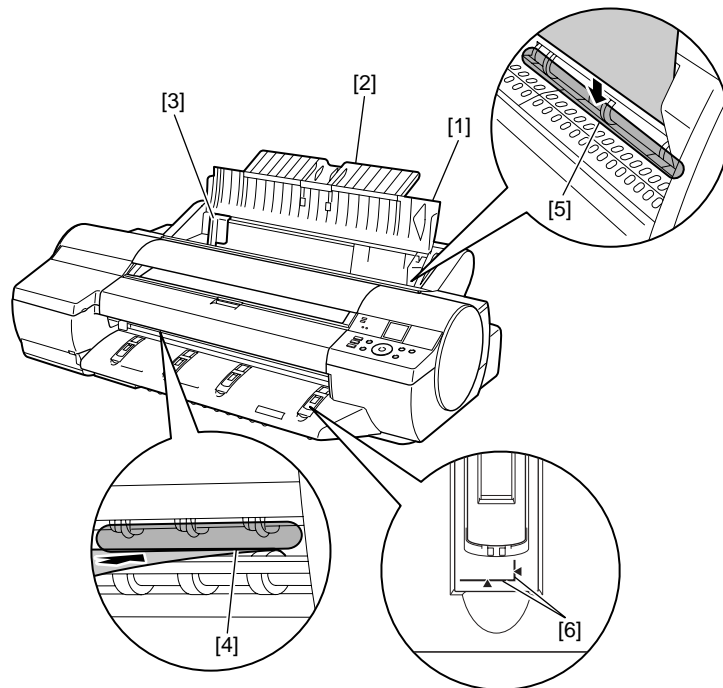
In loading thick paper, insert it into this port. All printed matter is ejected from this port.

[5] Paper tray top loading port

In loading cut sheet, insert them into this port.

1.5.8 Manual Loading Area

iPF6300 / iPF6350 / iPF6300S

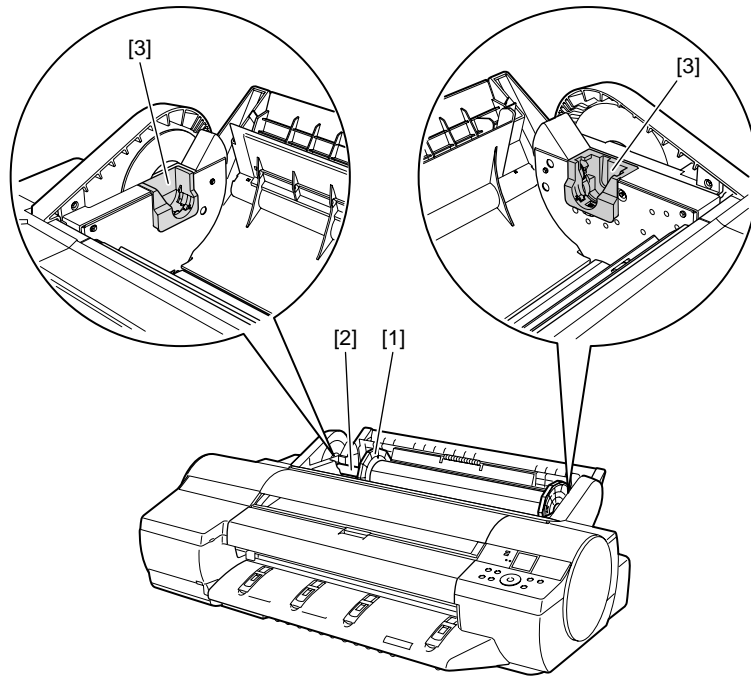


F-1-42

- [1] Paper tray cover
In loading paper in a paper tray, open this cover.
- [2] Paper support
In loading paper in a paper tray, open the paper tray cover and then this tray.
- [3] Width guides
In loading cut sheet, move the guide to adjust to the paper size.
- [4] Paper tray front loading port (Paper eject slot)
In loading thick paper, insert it into this port. All printed matter is ejected from this port.
- [5] Paper tray top loading port
In loading cut sheet, insert them into this port.
- [6] Paper alignment line
Load heavyweight sheets parallel to this line.

1.5.9 Roll Feed Unit Cover (Inside)

iPF6100 / iPF6200 / iPF6000S

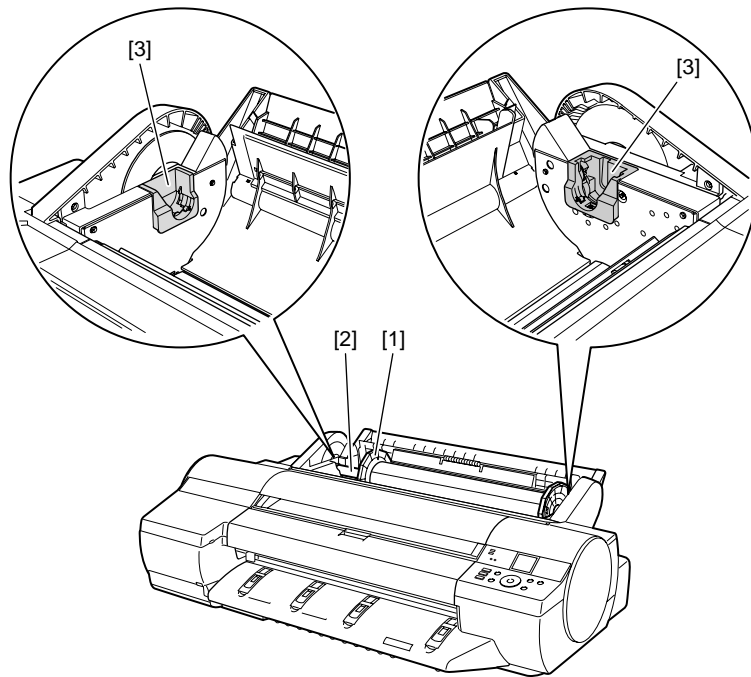


F-1-43

- [1] Roller holder
Set roll media on this holder.
- [2] Holder stopper
Use to secure roll media to the roller holder.
- [3] Roller holder slot
Set the roller holder in this guide groove.

1.5.10 Roll Feed Unit Cover (Inside)

iPF6300 / iPF6350 / iPF6300S

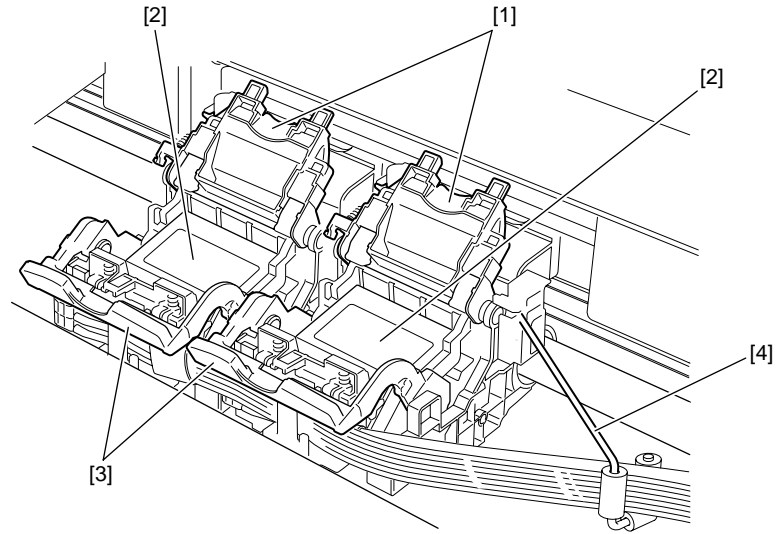


F-1-44

- [1] Roller holder
Set roll media on this holder.
- [2] Holder stopper
Use to secure roll media to the roller holder.
- [3] Roller holder slot
Set the roller holder in this guide groove.

1.5.11 Carriage

iPF6100 / iPF6200 / iPF6000S / iPF6300 / iPF6350 / iPF6300S

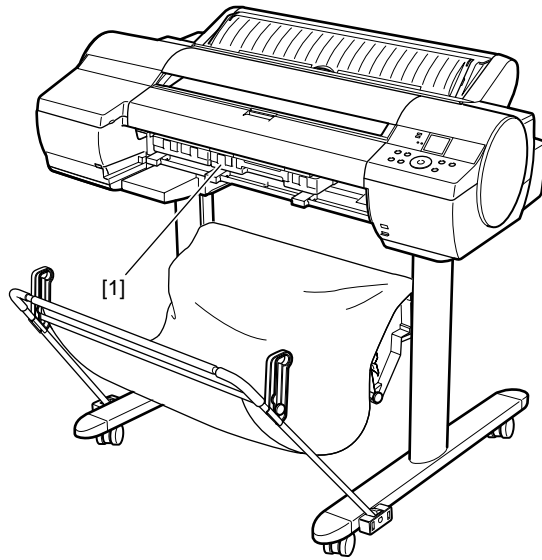


F-1-45

- [1] Printhead lock cover
This cover is used to lock the printhead. Open this cover when installing the printhead.
- [2] Printhead
The printhead incorporated nozzles. It is an important part for printing.
- [3] Printhead lock lever
This lever is used to lock the printhead. Open this lever when installing the printhead.
- [4] Wire guide
This stay is used as an ink tube guide.

1.5.12 Inside

iPF6100 / iPF6200 / iPF6000S

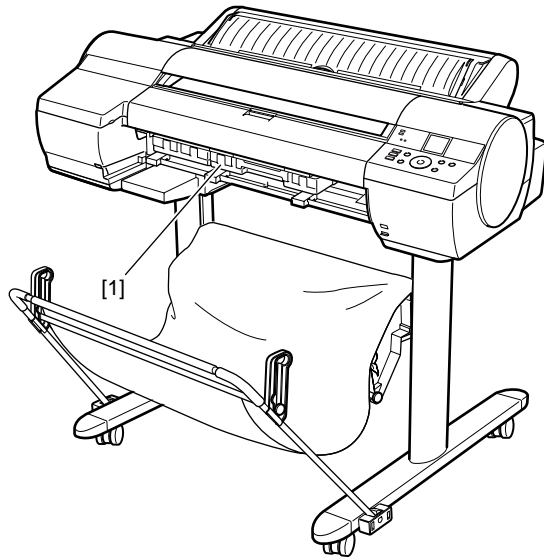


F-1-46

[1] Maintenance cartridge
Absorbs excess ink

1.5.13 Inside

iPF6300 / iPF6350 / iPF6300S



F-1-47

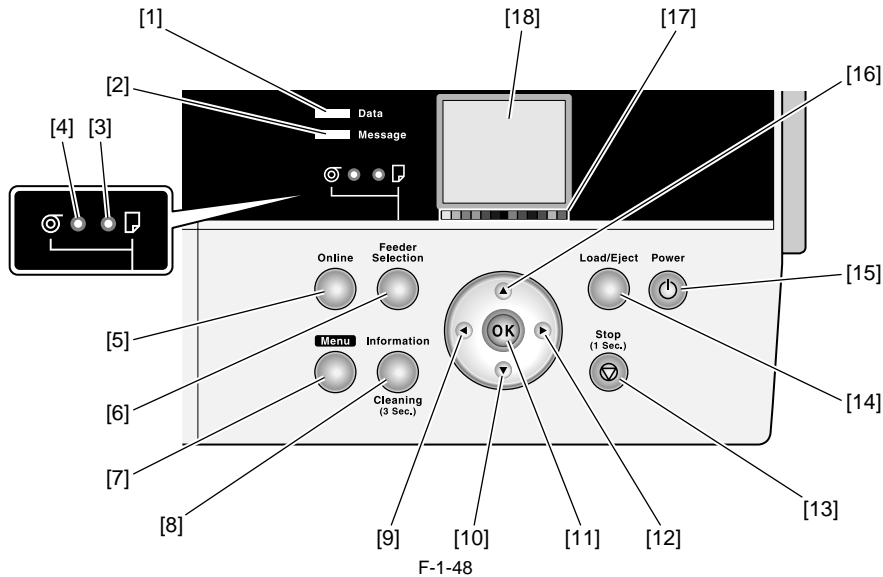
[1] Maintenance cartridge
Absorbs excess ink

1.6 Basic Operation

1.6.1 Operation Panel

iPF6100 / iPF6200 / iPF6000S

This section explains the functions of the buttons and the meanings of the LEDs on the operation panel.



F-1-48

[1] Data lamp

Blinking: Indicates that a print job is being received or processed if the printer is printing, or that a print job has paused or firmware data is being if the printer is not printing.

Off: No print job is available.

[2] Message lamp

On: Indicates that a warning message is on display.

Blinking: Indicates that an error message is on display.

Off: The printer is normal or is turned off.

[3] Cut sheet lamp (green)

On: Either the paper tray or paper tray front loading port is selected as a paper source.

Off: Roll media are selected as a paper source.

[4] Roll media lamp (green)

On: Roll media are selected as a paper source.

Off: Either the paper tray or paper tray front loading port is selected as a paper source.

[5] Online button

Toggles the printer mode between online and offline.

On: Online mode.

Blinking: Emerging from sleep mode.

Off: Offline mode.

[6] Paper source button

Selects a paper source. Each time this button is pressed, the paper source toggles between roll media (roll media source) and cut sheet (paper tray or paper tray front loading port), with the paper source selector lamp illuminating.

[7] Menu button

Displays the printer main menu.

[8] Information button

Displays the printer submenu. Each time this button is pressed, information about the inks and paper is displayed.

Hold this button depressed for 3 seconds to execute printhead cleaning ([Head Cleaning A]).

[9] ◀ button

Press this button when the printer is in menu mode to view the menu at the upper level.

The button is also used from one position to the next when entering a numeric value.

If [← STOP] is on display, the guidance screen can be paused.

If [← BACK] on display, the guidance screen can be moved backward.

[10] ▼ button

Press this button when the printer is in offline mode to manually feed roll media.

Press this button when the printer is in menu mode to view the next item or setting.

[11] OK button

Press to set or set or execute a menu choice when the printer is in menu mode.

Press this button in any other situation to transition to the next screen as directed by a message appearing in the display.

[12] ▶ button

Press this button when the printer is in menu mode to view the menu at the lower level.

If [NEXT →] on display, the guidance screen can be moved forward.

[13] Stop button

Press for longer than 1 second to cancel the job or ink drying process in progress.

If cut sheet loading guidance or the like is on display, hold this button for longer than 1 second to stop the guidance.

[14] Load/Eject button

Guidance offers a visual clue to loading (replacing)/removing paper. Press this button when no paper is loaded to view instructions on how to load (replace) paper in the display; press the button when paper is loaded to view instructions on how to remove the paper.

[15] Power button

Turns the printer on and off.

[16] ▲ button

Press this button when the printer is in offline mode to manually feed roll media in the direction opposite to that of ejection.

Press this button when the printer is in menu mode to view the last item or setting.

[17] Color labels

Represent ink tank colors in association with the remaining ink levels shown in the display.

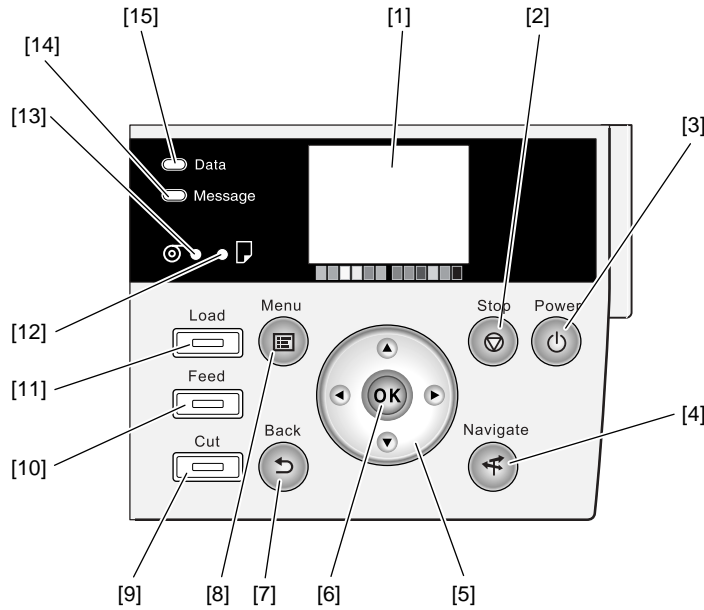
[18] Display

Displays the printer menu, status or messages.

1.6.2 Operation Panel

iPF6300 / iPF6350 / iPF6300S

This section explains the functions of the buttons and the meanings of the LEDs on the operation panel.



F-1-49

[1] Display

Printer menus, statuses, and messages are shown on this display.

[2] [Power] button

Use this button to turn on or off the printer.

When the printer is powered or in the sleep mode, the [Power] button lamp stays lit.

[3] [Stop] button

Use this button to stop execution of a job or drying ink.

[4] [Navi] button

Use this key to confirm the procedures for loading/unloading media, replacing an ink tank, and replacing the printhead.

[5] Direction buttons

- ◀ button: Pressing this button on the [tab selection screen] moves the tab. When a menu requiring you to enter a value is selected, pressing this button allows you to move to the left-hand digit.

- ▲ button: Pressing this button in a menu displays the upper item or setting value.

- ▶ button: Pressing this button on the [tab selection screen] moves the tab. When a menu requiring you to enter a value is selected, pressing this button allows you to move to the right-hand digit.

- ▼ button: Pressing this button in a menu displays the lower item or setting value.

[6] [OK] button

Pressing this button on the [tab selection screen] displays the menu for the displayed tab.

In the menu for a tab, pressing this button at the item preceded by [+] allows you to move to the bottom layer of menu items, where you can execute a menu item or set values. Also press this button when a message asking you to press the [OK] button is shown on the display.

[7] [Back] button

Pressing this button displays the preceding screen.

[8] [Menu] button

Pressing this button displays the [tab selection screen] screen.

[9] [Media Cut] button

When roll media is loaded, pressing this button cuts the media.

[10] [Media Feed] button

When roll media is loaded, pressing this button allows you to change the media position.

[11] [Media Change] button

Press this button when loading/replacing media.

[12] [Cut Sheet] lamp (green)

This lamp stays lit when cut sheet is selected as a media type.

[13] [Roll Media] lamp (green)

This lamp stays lit when roll media is selected as a media type.

[14] Message lamp (orange)

- Stays lit: A warning message is being displayed.

- Blinking: An error message is being displayed.

- Not lit: The printer is normal or not powered.

[15] Data reception lamp (green)

- Blinking: When the printer is making prints, this lamp indicates that a print job is being received or processed. When the printer is not making prints, this lamp indicates that the print job is suspended or the firmware data is being received.

- Not lit: This lamp indicates that there is no print job.

MEMO:

When the printer is in the sleep mode, pressing any button other than the [Power] button wakes up the printer.

1.6.3 Main Menu

iPF6000S

The printer has a Main menu which includes a menu related to maintenance such as adjustment of ink ejection position of each nozzle and head cleaning, a menu related to printing settings such as auto cutting and ink drying time, and a menu related to parameters such as a message language.

1. Main menu operations

a) How to enter the Main menu

To enter the Main menu, press the [Menu] button on the operation panel.

b) How to exit the Main menu

To exit the Main menu, press the [Online] button.

c) Buttons used with the Main menu

- Selecting menus and parameters: [◀] or [▶] button
- Going to the next lower-level menu: [▼] button
- Going to the next higher-level menu: [▲] button
- Determining a selected menu or parameter: [OK] button

2. Main Menu

The structure of the main menu is as follows.

T-1-7

First Level	Second Level	Third Level	Fourth Level	Fifth Level	
[Paper Cut] (*1)	[No]				
	[Yes]				
[Rep.Ink Tank]	[No]				
	[Yes]				
[Head Cleaning]	[Head Cleaning A]				
	[Head Cleaning B]				
[Media Menu]	[Manual Paper Type]				[Plain Paper] (*5)
					[Plain Paper HQ] (*5)
					[Plain Paper HG] (*5)
					[Recycled Coated] (*5)
					[High Resolution] (*5)
					[Coated Paper] (*5)
		[HW Coated] (*5)			
		[Ex HW Coated] (*5)			
		[Premium MatteP] (*5)			
		[Matte Photo] (*5)			
		[Glossy Photo] (*5)			
		[Semi-GI Photo] (*5)			
		[HW Glossy Photo2] (*5)			
		[HW SemiGI Photo2] (*5)			
		[Poster Semi-GI] (*5)			
		[SatinPhoto 190] (*5)			
		[Photo PaperPlus] (*5)			
		[PhotoPlusSemiGI] (*5)			
		[Syn. Paper] (*5)			
		[Adh. Syn. Paper] (*5)			
		[Backlit Film] (*5)			
		[Backprint Film] (*5)			
		[Flame-Res.Cloth] (*5)			
		[ThinFab.Banner2] (*5)			
		[Proofing Paper] (*5)			
		[News Proof 1] (*5)			
		[News Proof 2] (*5)			
		[FineArt Photo] (*5)			
		[FneArt HW Photo] (*5)			

T-1-8

First Level	Second Level	Third Level	Fourth Level	Fifth Level
[Media Menu]	[Manual Paper Type]	[FineArt Txtr] (*5)		
		[FineArt Wtrclr] (*5)		
		[FineArtBlockP] (*5)		
		[Canvas Matte2] (*5)		
		[JPN Paper Washi] (*5)		
		[Colored Coated] (*5)		
		[CAD Trace Paper] (*5)		
		[CAD Matte Film] (*5)		
		[POP Board] (*5)		
		Special # Here, the number is 1 to 10(*5)		
		[Manual Paper Size]	[ISO A1]	
	[ISO A2+]			
	[ISO A2]			
	[ISO A3+]			
	[ISO A3]			
	[ISO A4]			
	[ISO B2]			
	[ISO B3]			
	[ISO B4]			
	[JIS B2]			
	[JIS B3]			
	[JIS B4]			
	[22"X34" (ANSI D)]			
	[17"X22" (ANSI C)]			
	[11"X17" (Ledger)]			
	[13"X19" (Super B)]			
	[Letter (8.5"X11")]			
	[Legal (8.5"X14")]			
	[24"X36"(ARCH D)]			
	[18"X24"(ARCH C)]			
	[12"X18"(ARCH B)]			
	[9"X12"(ARCH A)]			
	[DIN C2]			
[DIN C3]				
[DIN C4]				

First Level	Second Level	Third Level	Fourth Level	Fifth Level	
[Media Menu]	[Manual Paper Size]	[20"x24"]			
		[18"x22"]			
		[14"x17"]			
		[12"x16"]			
		[10"x12"]			
		[10"x15"]			
		[8"x10"]			
		[16"x20"]			
		[20"X30"]			
		[13"X22"]			
		[300x900 mm]			
		[Free size setting]			
			[Roll Media Type]	[Plain Paper] (*5)	
		[Plain Paper HQ] (*5)			
		[Plain Paper HG] (*5)			
		[Recycled Coated] (*5)			
		[High Resolution] (*5)			
		[Coated Paper] (*5)			
		[HW Coated] (*5)			
		[Ex HW Coated] (*5)			
		[Premium MatteP] (*5)			
		[Matte Photo] (*5)			
		[Glossy Photo] (*5)			
		[Semi-GI Photo] (*5)			
		[HW Glossy Photo2] (*5)			
		[HW SemiGI Photo2] (*5)			
		[Poster Semi-GI] (*5)			
		[SatinPhoto 190] (*5)			
		[Photo PaperPlus] (*5)			
		[PhotoPlusSemiGI] (*5)			
		[Syn. Paper] (*5)			
		[Adh. Syn. Paper] (*5)			
		[Backlit Film] (*5)			
	[Backprint Film] (*5)				
	[Flame-Res.Cloth] (*5)				
	[ThinFab.Banner2] (*5)				
	[Proofing Paper] (*5)				
	[News Proof 1] (*5)				
	[News Proof 2] (*5)				
	[FineArt Photo] (*5)				
	[FineArt HW Photo] (*5)				

T-1-10

First Level	Second Level	Third Level	Fourth Level	Fifth Level
[Media Menu]	[Roll Media Type]	[FineArt Txtr] (*5)		
		[FineArt Wtrclr] (*5)		
		[FineArtBlockP] (*5)		
		[Canvas Matte2] (*5)		
		[JPN Paper Washi] (*5)		
		[Colored Coated] (*5)		
		[CAD Trace Paper] (*5)		
		[CAD Matte Film] (*5)		
		[POP Board] (*5)		
		[Special #]# Here, the number is 1 to 10 (*5)		
		[Chk Remain.Roll]	[Off]*	
		[On]		
	[Roll Length Set] (*1, *2)	[### m] (*16)		
		[### feet] (*16)		
[Paper Details]	(The paper type is displayed here.)	[Roll DryingTime]	[Off]	
			[30 sec.]	
			[1 min.]	
			[3 min.]	
			[5 min.]	
			[10 min.]	
			[30 min.]	
			[60 min.]	
		[Scan Wait Time]	[Off]	
			[1 sec.]	
			[3 sec.]	
			[5 sec.]	
			[7 sec.]	
			[9 sec.]	

First Level	Second Level	Third Level	Fourth Level	Fifth Level
[Paper Details]	(The paper type is displayed here.)	[Feed Priority]	[Automatic]	
			[Band Joint]	
			[Print Length]	
		[Adjust Length A]	-0.70 to 0.70	
		[Adjust Length B]	-0.70 to 0.70	
		[Head Height]	[Automatic]	
			[Highest]	
			[High]	
			[Standard]	
			[Low]	
		[Skew Check Lv.]	[Lowest]	
			[High Accuracy]	
			[Standard]	
			[Loose]	
		[Vacuum Strngth]	[Off]	
			[Automatic]	
			[Strongest]	
			[Strong]	
			[Standard]	
		[NearEnd RollMrgn]	[Weak]	
			[Weakest]	
		[Cut Speed]	[3mm]	
			[20mm]	
		[Trim Edge First]	[Fast]	
			[Standard]	
			[Slow]	
		[Cutting Mode]	[Automatic]	
			[Off]	
			[On]	
		[Bordless Margin]	[Automatic]	
			[Eject]	
		[CutDustReduct.]	[Manual]	
			[Automatic]	
[NearEnd Sht Mrgn]	[Fixed]			
	[Off]			
[Manual Feed]	[On]			
	[3 mm]			
[Return Defaults]	[20 mm]			
	[Front]			
[Job Management]	[Job Queue Ope.]	[Job List]	[Top]	[Delete]
			[No]	
[Job Management]	[Com. BOX Ope.]	[Job List]	[Yes]	[Priority]
			[Choose a print job]	
[Job Management]	[Com. BOX Ope.]	[Print Job List]	[Choose a print job]	[Print]
			[No]	
[Job Management]	[Psnl. BOX Ope.]	[Folder List] (Enter a password if one has been set.)	[Delete]	[Delete]
			[Yes]	
[Job Management]	[Psnl. BOX Ope.]	[Folder List] (Enter a password if one has been set.)	[Job List] (Choose a print job)	[Print]
			[Print Job List]	
[Job Management]	[Psnl. BOX Ope.]	[Folder List] (Enter a password if one has been set.)	[Delete]	[Delete]
			[No]	
[Job Management]	[Psnl. BOX Ope.]	[Folder List] (Enter a password if one has been set.)	[Print Job List]	[No]
			[Yes]	
[Job Management]	[Psnl. BOX Ope.]	[Folder List] (Enter a password if one has been set.)	[Print Job List]	[Yes]
			[Yes]	

T-1-12

First Level	Second Level	Third Level	Fourth Level	Fifth Level
[Adjust Printer]	[Auto Head Adj.]	[Standard Adj.]	[No]	
			[Yes]	
		[Advanced Adj.]	[No]	
			[Yes]	
		[Auto Print]	[Off]	
			[On]*	
	[Manual Head Adj] (*12)	[No]		
		[Yes]		
	[Auto Band Adj.]	[Standard Adj.]	[No]	
			[Yes]	
		[Advanced Adj.]	[No]	
		[Yes]		
	[Manual Band Adj]	[No]		
		[Yes]		
	[Adj Far Ed Feed]	[No]		
		[Yes]		
	[Adjust Length] (*3)	[Standard]	[No]	
			[Yes]	
		[Other]	[No]	
			[Yes]	
[Calibration]	[Auto Adjust]	[No]		
		[Yes]		
	[Execution Log]	[Date]		
		[Media]		
	[Use Adj. Value]	[No]		
		[Yes]*		
[Restore Defaults]	[No]			
	[Yes]			
[Interface Setup]	[EOP Timer]	[10 sec.]		
		[30 sec.]		
		[1 min.]		
		[2 min.]		
		[5 min.]		
		[10 min.]*		
		[30 min.]		
		[60 min.]		
	[TCP/IP]	[IP Mode]	[Automatic]	
			[Manual]*	
	[Protocol] (*4)	[DHCP]		
			[On]	
			[Off]*	

First Level	Second Level	Third Level	Fourth Level	Fifth Level	
[Interface Setup]	[TCP/IP]	[Protocol] (*4)	[BOOTP]	[On]	
				[Off]*	
			[RARP]	[On]	
				[Off]*	
		[IP Setting] (*14)	[IP Address]	0.0.0.0* to 255.255.255.255	
			[Subnet Mask]	0.0.0.0* to 255.255.255.255	
			[Default G/W]	0.0.0.0* to 255.255.255.255	
		[NetWare]	[NetWare]		[On]
					[Off]*
	[Frame Type] (*6)		[Auto Detect]		
			[Ethernet 2]		
			[Ethernet 802.2]*		
			[Ethernet 802.3]		
			[Ethernet SNAP]		
	[Print Service] (*6)		[BinderyPServer]		
			[RPrinter]		
			[NDSPServer]*		
			[NPrinter]		
	[AppleTalk]		[On]		
			[Off]*		
	[Ethernet Driver]	[Auto Detect]		[On]	
				[Off]*	
[Comm.Mode] (*7)			[Half Duplex]*		
			[Full Duplex]		
[Ethernet] (*7)			[10 Base-T]*		
			[100 Base-TX]		
[Spanning Tree]		[Not Use]*			
	[Use]				
	[MAC Address]				
[Init. Settings]		[No]*			
		[Yes]			
[Maintenance]	[Repl. maint. cart.]		[No]		
			[Yes]		

T-1-14

First Level	Second Level	Third Level	Fourth Level	Fifth Level	
[Maintenance]	[Replace P.head]	[Printhead L]	[No]		
			[Yes]		
		[Printhead R]	[No]		
			[Yes]		
		[Move Printer]	[No]		
		[Yes]			
		[Clean Platen]	[No]		
		[Yes]			
[System Setup]	[Warning]	[Buzzer]	[Off]		
			[On]*		
			[Detect Mismatch]		[Pause]
					[Warning]*
			[None]		
		[Keep Media Size]	[Off]*		
			[On]		
		[Paper Size Basis]	[Sht Selection]		[ISO A3+]*
					[13"x19" (Super B)]
			[Roll Selection 1]		[ISO A3 (297 mm)]
					[300 mm Roll]
			[Roll Selection 2]		[10 in. (254 mm)]
					[JIS B4 (257 mm)]
		[TrimEdge Reload]	[Off]		
			[On]		
			[Automatic]		
		[Noz. Check Freq.]	[Off]		
			[1 page]		
			[10 pages]		
			[Automatic]*		
		[Sleep Timer]	[5 min.]*		
			[10 min.]		
			[15 min.]		
			[20 min.]		
			[30 min.]		
			[40 min.]		
			[50 min.]		
			[60 min.]		
	[240 min.]				

First Level	Second Level	Third Level	Fourth Level	Fifth Level
[System Setup]	[Length Unit]	[meter]*		
		[feet/inch]		
	[Time Zone]	[0: London (GMT)]		
		[+1: Paris, Rome]		
		[+2: Athens, Cairo]		
		[+3: Moscow]		
		[+4: Ecrenan, Baku]		
		[+5: Islamabad]		
		[+6: Dacca]		
		[+7: Bangkok]		
		[+8: Hong Kong]		
		[+9: Tokyo, Seoul]		
		[+10: Canberra]		
		[+11: NewCaledonia]		
		[+12: Wellington]		
		[-12: Eniwetok]		
		[-11: Midway is]		
		[-10: Hawaii (AHST)]		
		[-9: Alaska (AKST)]		
		[-8: Oregon (PST)]		
		[-7: Arizona (MST)]		
		[-6: Texas (CST)]		
	[-5: NewYork (EST)]			
	[-4: Santiago]			
	[-3: Buenos Aires]			
	[-2:]			
	[-1: Cape Verde]			
[Date Format]	[yyyy/mm/dd]*			
	[dd/mm/yyyy]			
	[mm/dd/yyyy]			
[Date & Time]	[Date]	[yyyy/mm/dd] (*8)		
	[Time]	[hh: mm]		

T-1-16

First Level	Second Level	Third Level	Fourth Level	Fifth Level	
[System Setup]	[Language]	[Japanese]			
		[English]			
		[Francais]			
		[Italiano]			
		[Deutsch]			
		[Espanol]			
		[Pycccknn]			
		[Chinese]			
	[Korea]				
	[Contrast Adj.]	-4, -3, -2, -1, 0*, +1, +2, +3, +4			
	[Reset PaprSetngs]	[No]			
		[Yes]			
[Erase HDD Data]	[High Speed]	[No]			
		[Yes]			
	[Secure High Spd.]	[No]			
		[Yes]			
	[Secure]	[No]			
		[Yes]			
[Output Method]	[Print]*				
	[Print(auto delete)]				
	[Save in mail box]				
[Save beforePrint]	[Off]*				
	[On]				
[Save in Comm.Box]	[Off]				
	[On]*				
[Test Print]	[Status Print]	[No]			
		[Yes]			
	[Media Details]	[No]			
		[Yes]			
	[Print Job Log]	[No]			
		[Yes]			
	[Menu Map]	[No]			
		[Yes]			
	[Nozzle Check]	[No]			
		[Yes]			
[Information]	[System Info]				
	[Error Log]	[##### -####]			
	[Job Log]	(Choose from information about the latest three print jobs.)	[Document Name]		
			[User Name]		
			[Page Count]		
			[Job Status]		
			[Print Start Time]		
			[Print End Time]		
			[Print Time]		
			[Print Size]		
[Media Type]					
[Interface]					
	[Ink Consumed]				
	[HDD Information]	[HDD Space]	[xx.xGB]		

*1: Displayed if a roll is loaded.

*2: Displayed if Chk Remain.Roll is On.

*3: Displayed if IP Mode is Automatic.

*4: Only these menus are displayed during printing.

*5: For information on the types of paper the printer supports, refer to the Media Guide. The media type setting in the printer driver and related software (as well as on the Control Panel is updated when you install Media Configuration Tool from the User Software CD-ROM or if you change paper information by using Media Configuration Tool.

*6: Available only if Auto Detect is Off.

*7: Available only if NetWare is On.

*8: Follows the setting in Date Format.

*12: Displayed if paper is loaded in the tray.

*14: This menu is only displayed during printing.

*16: Not displayed if a roll or a sheet has been fed.

3. Main menu during printing

The structure of the main menu during printing is as follows.

T-1-17

First Level	Second Level	Third Level	Fourth Level	Fifth Level
[Menu Durng Prtng]	[Head Cleaning]	[Head Cleaning A]		
		[Head Cleaning B]		
	[Fine Band Adj.]	-5 to 5		
	[Information]	[System Info]		
		[Error Log]	#####	
		[Job Log]	(Choose from information about the latest three print jobs.)	[Document Name]
				[User Name]
				[Page Count]
		[Job Status]		
		[Print Start Time]		
		[Print End Time]		
	[Print Time]			
	[Print Size]			
	[Media Type]			
	[Interface]			
	[Ink Consumed]			
	[HDD Information]	[HDD Space]	[xx.xGB]	

4. Main Menu Settings

Main menu items are described in the following tables.

T-1-18

Setting Item	Description/Instructions
[Paper Cut]	Displayed if a roll is loaded. Choose Yes to cut the roll at the current position. The paper will be fed, if necessary, so that the sheet is at least 10 cm (39.4 in.) long after the cut. The paper will not be cut if there is not enough paper left to feed the paper this much.
[Rep. Ink Tank]	When exchanging the ink tank, choose Yes and follow the instructions on the screen.
[Head Cleaning]	Specify Printhead cleaning options. Choose Head Cleaning A if printing is faint, oddly colored, or contains foreign substances. Choose Head Cleaning B if no ink is printed at all, or if printing is not improved by Head Cleaning A .
[Media Menu]	Specify the type and size of paper.
[Paper Details]	Specify detailed paper-related settings, including the ink drying time and borderless printing options.
[Job Management]	Manage print jobs on the printer's hard disk.
[Adjust Printer]	Adjust the Printhead alignment or amount of feed by printing a test pattern.
[Interface Setup]	Configure the network settings.
[Maintenance]	Replace the Printhead , prepare to transfer the printer, and clean the Pick Up Roller .
[System Setup]	Specify the printer system settings, including the date format and display language.
[Test Print]	Choose Status Print to print information about the printer. Choose Media Details to print the paper settings as specified in Med.Detail Set . Choose Print Job Log to print a record of print jobs, including the paper type and size, amount of ink used, and so on. Choose Menu Map to print a list of the main menu options. Choose Nozzle Check to print a test pattern for checking the nozzles. If you have selected a leading edge margin of 20 mm in Nr End Sht Mrgn in the printer menu, the test print sheet may not be printed completely.
[Information]	Displays the information about the printer and history of print jobs.

[Paper Settings]

T-1-19

Setting Item	Description/Instructions
[Roll Media Type]	Choose the type of roll.
[Chk Remain.Roll]	Choose On to print a barcode at the end of a roll before you remove it. The printed barcode can be used in managing the amount of roll paper left. Choose Off if you prefer not to print the barcode.
[Roll Length Set]	Displayed if Chk Remain.Roll is On . If a barcode is not printed on rolls, specify the roll length. The roll length is displayed in meters (1.0 - 91.0 m) or feet (1 - 300 ft.), depending on the setting in Length Unit .
[Manual Paper Type]	Choose the type of manual feed paper.
[Manual Paper Size]	Choose the size of manual feed paper.

[Paper Details]

Setting Item	Description/Instructions
(The paper type is displayed here.)	
[Roll DryingTime]	Specify the time to wait for the ink to dry for each sheet.
[Scan Wait Time]	Specify the time to wait for the ink to dry between each scan in bidirectional printing, in consideration of how quickly the paper absorbs ink. Note that printing will take longer if you specify a wait time.
[Feed Priority]	Specify exact paper feeding, if desired. Normally, select Automatic . Choose Print Length if you prefer to feed the paper an exact amount. However, note that choosing Print Length may result in slight banding in the direction of Carriage scanning.
[Adjust Length A]/[Adjust Length B]	Displayed if Feed Priority is Print Length . Adjustment relative to the amount of stretching or shrinkage of the current paper. For paper that tends to stretch, increase the feed amount by setting the adjustment value toward +. For paper that tends to shrink, decrease the feed amount by setting the adjustment value toward -. The setting for the amount of paper stretching or shrinkage is relative. If you access it again later, it will be displayed as 0.00 %.
[Head Height]	Adjust the Printhead height.
[Skew Check Lv.]	If you print on Japanese Paper Washi or other handmade paper that has an irregular width, choose Loose for a higher skew detection threshold, or choose Off to disable skew detection. However, if paper is loaded askew when detection is Off , note that paper jams or Platen soiling may occur. If strict skew detection is required, choose High Accuracy.
[VacuumStrngth]	Specify the level of suction that holds paper against the Platen .
[NearEnd RollMrgn]	Specify a margin at the leading edge of roll paper to ensure better printing quality at the leading edge. Note that if you choose 3 mm , it may lower the printing quality at the leading edge and affect feeding accuracy. The printed surface may be scratched, and ink may adhere to the the leading edge.
[Cut Speed]	Choose the cutting speed. For media such as film that are more likely to generate debris when cut, choose Fast to reduce the amount of debris.
[Trim Edge First]	If a roll is loaded, the end of the paper will be cut. Choose Forced to have 40 mm (1.6 in) cut off the leading edge of the roll, ensuring a straight edge, after you load the roll. Scraps are then removed. When Automatic is selected, if the left and right side of the leading edge of the roll are uneven (by 3 mm [0.12 in] or more), the edge is cut an amount relative to the slant to ensure a straight edge after you load the roll. Scraps are then removed. If the unevenness is less than 3 mm or if No Cutting is selected, the edge is not cut and scraps are not removed.
[Cutting Mode]	Specify if the Cutter Unit is used for cutting. Choose Automatic to have roll paper cut automatically after printing. If you choose Eject , the paper will not be cut after printing. Instead, a line will be printed at the cut position.
[Bordless Margin]	Adjust the margin during borderless printing.
[CutDustReduct.]	Choose On to reduce the amount of debris generated when cutting film and similar media by printing a line at the cut position. This option reduces the amount of debris given off after cutting.
[Manual Feed]	Choose how the paper is supplied, Top for printing from the Tray or Front for printing from the Front Paper Feed Slot .
[NearEnd Sht Mrgn]	Specify a margin at the leading edge of sheets to ensure better printing quality at the leading edge. Note that if you choose 3 mm , it may lower the printing quality at the leading edge and affect feeding accuracy. The printed surface may be scratched, and ink may adhere to the the leading edge. If you have selected 20 mm , the test print sheet may not be printed completely.
[Return Defaults]	Choose Yes to restore Med.Detail Set. to the factory default values.

[Job Management]

T-1-21

Setting Item			Description/Instructions	
[Job Queue Ope.]	[Job List]	(Choose a print job)	[Delete]	Delete the current job or queued jobs.
			[Priority]	Print the job first after the current print job is finished printing.
[Com. BOX Ope.]	[Job List]	(Choose a print job)	[Print]	Print jobs in the Common Box.
			[Delete]	Delete jobs in the Common Box.
	[Print Job List]			Print a list of jobs in the Common Box.
[Psnl. BOX Ope.]	[Folder List]	(Enter a password if one has been set.)	[Job List]-[Print]	Print jobs in Personal Boxes.
			[Job List]-[Delete]	Delete jobs in Personal Boxes.
			[Print Job List]	Print a list of jobs in Personal Boxes.

[Adjust Printer]

T-1-22

Setting Item		Description/Instructions
[Auto Head Adj.]	[Standard Adj.]	Choose Yes to have the printer print and read a test pattern for the automatic adjustment of Printhead alignment relative to the printing direction.
	[Advanced Adj.]	Choose Yes to have the printer print and read a test pattern for the automatic adjustment of Printhead alignment relative to the nozzle, ink tank, and printing direction. Three sheets are required when printing on sheets.
	[Auto Print]	Choose On to have the printer automatically execute the Advanced Adj. operations after you replace the Printhead .
[Manual Head Adj]		Choose Yes to print a test pattern for adjustment of Printhead alignment relative to the printing direction. Enter the adjustment value manually based on the resulting pattern.
[Auto Band Adj.]	[Standard Adj.]	Choose Yes to have the printer print and read a test pattern for band adjustment, based on which the printer automatically adjusts the feed amount.
	[Advanced Adj.]	Choose this option when using paper other than genuine Canon paper, or paper for purposes other than checking output. Choose Yes to have the printer print and read a test pattern for band adjustment, based on which the printer automatically adjusts the feed amount. Note that this function takes more time and requires more ink than Standard Adj. Two sheets are required when printing on sheets.
[Manual Band Adj]		Choose Yes to print a test pattern for adjusting the feed amount based on the paper type. Two sheets are required when printing on sheets.
[Adj Far Ed Feed]		Choose Yes to print a test pattern for adjusting the feed amount of the trailing edge of paper based on the paper type.
[Adjust Length]	[Standard]	Choose Yes to print a test pattern for adjustment relative to paper stretching or shrinkage, after which you can enter the amount of adjustment.
	[Other]	
[Calibration]	[Auto Adjust]	Select [Yes] to print a color calibration adjustment pattern and adjust the correction value automatically. This color calibration adjustment value is extended to all print tasks.
	[Execution Log]	The date of color calibration and the paper type are displayed for visual verification.
	[Use Effect Value]	Select [Disable] and press the [OK] button not to apply the color calibration correction value to printing. The printer driver setting governs. Select [Enable] and press the [OK] button to apply the color calibration correction value to printing. It is overridden by the printer driver setting, though.
	[Return Defaults]	The color calibration correction value and the execution history are cleared.

[Interface Setup]

T-1-23

Setting Item		Description/Instructions	
[EOP Timer]		Specify the timeout period for print jobs.	
[TCP/IP]	[IP Mode]	Choose whether the printer IP address is configured automatically or a static IP address is entered manually.	
	[Protocol]	[DHCP]	Specify the protocol used to configure the IP address automatically.
		[BOOTP]	
		[RARP]	
[IP Setting]	[IP Address]	Specify the printer network information when using a static IP address.	
	[Subnet Mask]	Enter the IP address assigned to the printer, as well as the network subnet mask and default gateway.	
	[Default G/W]		
[NetWare]	[NetWare]	Specify the NetWare protocol. To apply your changes, choose Store Setting .	
	[Frame Type]	Specify the frame type to use.	
	[Print Service]	Choose the print service.	
[AppleTalk]		Specify whether to use the AppleTalk protocol. To apply your changes, choose Store Setting .	
[Ethernet Driver]	[Auto Detect]	Specify the communication method. To apply your changes, choose Store Setting . Choose On for automatic configuration of the LAN communication protocol. Choose Off to use settings values of Comm.Mode and Ethernet Type .	
	[Comm.Mode]	Choose the LAN communication method.	
	[Ethernet Type]	Choose the LAN transfer rate.	
	[Spanning Tree]	Choose whether spanning-tree packets are supported over the LAN.	
[MAC Address]		Displays the MAC address.	
[Init. Settings]		A confirmation message is displayed if you press the ▼ button. Choose [OK] to restore the network settings to the default values.	

[Maintenance]

T-1-24

Setting Item	Description/Instructions
[Maint. cart.]	When exchanging the maintenance cartridge, choose Yes and follow the instructions on the screen.
[Replace P.head]	Not displayed during a warning message that the remaining Maintenance Cartridge capacity is low. When replacing the Printhead , choose Yes and follow the instructions on the screen.
[Move Printer]	Not displayed during a warning message that the remaining Maintenance Cartridge capacity is low. When transferring the printer to another location, choose Yes and follow the instructions on the screen.
[Clean Platen]	Use this function to clean inside the Top Cover . After you select Yes , the Carriage is moved in preparation for Platen cleaning.

[System Setup]

T-1-25

Setting Item		Description/Instructions
[Warning]	[Buzzer]	Set the buzzer. Choose On for the buzzer to sound in case of errors.
	[Detect Mismatch]	Choose Warning for notification (display of a warning message) during printing if the paper type specified in the printer menu does not match the paper type in the printer driver. Choose None to continue print without notification. Choose Pause to have printing paused under these circumstances. In this case, you can continue printing by pressing the Online button.
[Keep Media Size]		Choose On to use the paper size setting as the basis for printing instead of other settings. The margin setting of the printer menu will be used instead of the margin setting of the printer driver if the latter is smaller, which may prevent text or images in the margin from being printed. Choose Off to use the printer driver settings instead. Even if the margin setting of the printer driver is smaller than that of the printer driver, text or images will not be cut off. However, this requires longer paper because the actual margin will be equal to the margin setting of the printer driver plus the margin setting of the printer menu.
[Paper Size Basis]	[Sht Selection]	If sheet size detection is activated, choose whether ISO A3+ or ANSI B Super is applied when an inbetween size is detected.
	[Sht Selection 1]	If roll size detection is activated, choose whether ISO A3 (297 mm) and 300 mm Roll is applied when an inbetween size is detected.
	[Sht Selection 2]	If roll size detection is activated, choose whether 10in. (254 mm) or JIS B4 (257 mm) is applied when an inbetween size is detected.
[TrimEdge Reload]		Keeping a roll in the printer for a long time without printing on it may leave a depression on the leading edge. When printing quality is most important, we recommend setting this option to On so that the paper edge is automatically cut before printing.
[Noz. Check Freq.]		Specify the timing for automatic checks of nozzle clogging. Choose Off to disable checking. Choose 1 page to check after each page is printed. Choose 10 pages to check once after every ten pages are printed.
[Sleep Timer]		Specify the period before the printer enters sleep mode.
[Length Unit]		Choose the unit of measurement when roll length is displayed. You can switch the unit displayed for Roll Length Set and the remaining paper amount displayed in the submenu.
[Time Zone]		Specify the time zone. Time zone options indicate a main city in this time zone and the difference from Greenwich Mean Time.
[Date Format]		Specify the date format.
[Date & Time]	[Date]	Set the current date.
	[Time]	Set the current time.
[Language]		Specify the language used on the Display Screen.
[Contrast Adj.]		Adjust the contrast of the Display Screen.
[Reset PaprSetngs]		Restores settings that you have changed with Media Configuration Tool to the factory default values.
[Erase HDD Data]	[High Speed]	The file management information of the data recorded in the hard disk drive is deleted. The time required is several seconds.
	[Secure High Spd.]	The random data in the entire hard disk drive is overwritten. The time required is about 40 minutes.
	[Secure]	The 00 or FF or the random data in the entire hard disk drive is overwritten each once. The verify check whether the data recorded in the hard disk drive is correct is executed. The time required is 20 hours.
[Output Method]	[Print]	Choose how to print.
	[Print(auto delete)]	Select [Print] to perform normal printing. Select [Print (Auto delete)], print data and remove it from the hard disk. Select [Save in mail box] to only save data to the box, without printing it.
	[Save in mail box]	
[Save beforePrint]		Select [On] to start printing data when its save is complete.
[Save in Comm.Box]		Select [Off] to print data without saving it to the common box.

[Information]

Setting Item		Description/Instructions	
[System Info]	[Firmware]		Displays the version of the printer and firmware.
	[Boot: ##.##]		Displays the Boot ROM version of the printer.
	[MIT]		Displays the DB format version of the MIT.
	[IP:]		Displays the printer IP address.
	[s/n:]		Displays the printer serial number.
[Error Log]	[#####.#####]		Displays the most recent error messages (up to two).
[Job Log]	(Choose from information about the latest three print jobs.)	[Document Name]	Displays the document name in the last print job.
		[User Name]	Displays the name of the user who sent the print job.
		[Page Count]	Displays the number of pages in the print job.
		[Job Status]	Displays the results of the print job processed.
		[Print Start Time]	Displays the time when the print job was started.
		[Print End Time]	Displays the time when the print job was finished.
		[Print Time]	Displays the time required to print the job.
		[Print Size]	Displays the paper size in the print job.
		[Media Type]	Displays the paper type in the print job.
		[Interface]	Displays the interface used for the print job.
	[Ink Consumed]		Displays the ink density of each color in the print job.
[HDD Information]	[HDD Space]		Displays the space available on the printer's hard disk.

5. Main Menu Settings (During Printing)

Main menu items during printing are described in the following tables.

T-1-27

Setting Item	Description/Instructions
[Head Cleaning]	Specify Printhead cleaning options. Choose Head Cleaning A if printing is faint, oddly colored, or contains foreign substances. Choose Head Cleaning B if no ink is printed at all, or if printing is not improved by Head Cleaning A .
[Fine Band Adj.]	Displayed during print jobs. Fine-tune the feed amount manually.
[Information]	Displays the information about the printer and history of print jobs.

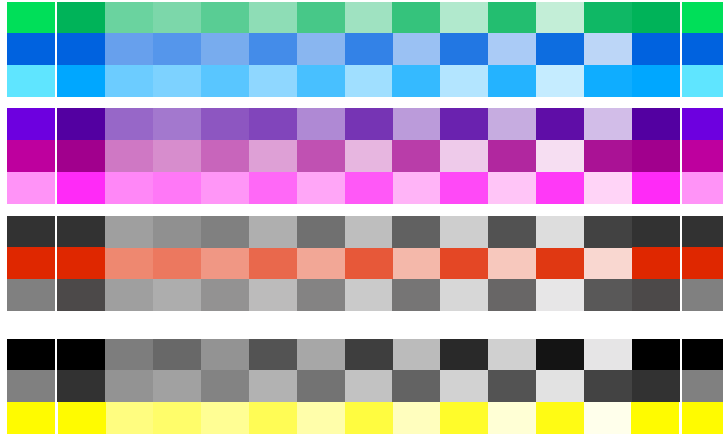
[Information]

T-1-28

Setting Item	Description/Instructions		
[System Info]	[Firmware]	Displays the version of the printer and firmware.	
	[Boot: ##.##]	Displays the Boot ROM version of the printer.	
	[MIT]	Displays the DB format version of the MIT.	
	[IP:]	Displays the printer IP address.	
	[s/n:]	Displays the printer serial number.	
[Error Log]	[#####.#####]	Displays the most recent error messages (up to two).	
[Job Log]	(Choose from information about the latest three print jobs.)	[Document Name]	Displays the document name in the last print job.
		[User Name]	Displays the name of the user who sent the print job.
		[Page Count]	Displays the number of pages in the print job.
		[Job Status]	Displays the results of the print job processed.
		[Print Start Time]	Displays the time when the print job was started.
		[Print End Time]	Displays the time when the print job was finished.
		[Print Time]	Displays the time required to print the job.
		[Print Size]	Displays the paper size in the print job.
		[Media Type]	Displays the paper type in the print job.
		[Interface]	Displays the interface used for the print job.
		[Ink Consumed]	Displays the ink density of each color in the print job.
[HDD Information]	[HDD Space]		Display the space available on the printer's hard disk.

6. Color calibration print chart

The following chart (sample) is printed when executing "Calibration".



F-1-50

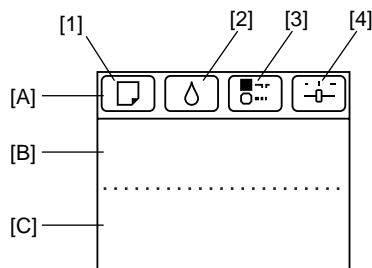
1.6.4 Display

iPF6300 / iPF6350 / iPF6300S

When the printer starts, the [tab selection screen] appears on the display.

There are four types of tabs on which the relevant printer status, menu, and error information are displayed.

The tab appears as the icon to the top field of display. The tab moves by ◀ key or ▶ key.



F-1-51

[1] Media tab

This tab shows the printer status and menu related to media. When this tab is shown in reverse video, pressing the [OK] button displays the [Media] menu.

-[A] Top field of display: Shows the media icon in reverse video.

-[B] Middle field of display: Shows the printer status and a menu name.

-[C] Bottom field of display: Shows the media type in the first row and the media size in the second row.

[2] Ink tab

This tab shows the printer status and menu related to ink. When this tab is shown in reverse video, pressing the [OK] button displays the [Ink] menu.

-[A] Top field of display: Shows the ink icon in reverse video.

-[B] Middle field of display: Shows the printer status and a menu name.

-[C] Bottom field of display: Shows the remaining ink levels of the ink tanks loaded in the printer.

[3] Job tab

This tab shows the printer status and menu related to the print job. When this tab is shown in reverse video, pressing the [OK] button displays the [Job] menu.

-[A] Top field of display: Shows the job icon in reverse video.

-[B] Middle field of display: Shows the printer status and a menu name.

[4] Setup/Adjustment tab

This tab shows the printer status and menu related to setup/adjustment. When this tab is shown in reverse video, pressing the [OK] button displays the [Setup/Adjustment] menu.

-[A] Top field of display: Shows the setup/adjustment icon in reverse video.

-[B] Middle field of display: Shows the printer status and a menu name.

-[C] Bottom field of display: Shows the remaining ink level of the maintenance cartridge.

1.6.5 Main Menu

iPF6100

The printer has a Main menu which includes a menu related to maintenance such as adjustment of ink ejection position of each nozzle and head cleaning, a menu related to printing settings such as auto cutting and ink drying time, and a menu related to parameters such as a message language.

1. Main menu operations

a) How to enter the Main menu

To enter the Main menu, press the [Menu] button on the operation panel.

b) How to exit the Main menu

To exit the Main menu, press the [Online] button.

c) Buttons used with the Main menu

- Selecting menus and parameters: [◀] or [▶] button
- Going to the next lower-level menu: [▼] button
- Going to the next higher-level menu: [▲] button
- Determining a selected menu or parameter: [OK] button

2. Main Menu

The structure of the main menu is as follows.

T-1-29

First Level	Second Level	Third Level	Fourth Level	Fifth Level	
[Paper Cut] (*1)	[No]				
	[Yes]				
[Rep.Ink Tank]	[No]				
	[Yes]				
[Head Cleaning]	[Head Cleaning A]				
	[Head Cleaning B]				
[Media Menu]	[Manual Paper Type]				[Plain Paper] (*5)
					[Plain Paper HQ] (*5)
					[Plain Paper HG] (*5)
					[Recycled Coated] (*5)
					[High Resolution] (*5)
					[Coated Paper] (*5)
		[HW Coated] (*5)			
		[Ex HW Coated] (*5)			
		[Premium MatteP] (*5)			
		[Matte Photo] (*5)			
		[Glossy Photo] (*5)			
		[Semi-Gl Photo] (*5)			
		[HW Glossy Photo2] (*5)			
		[HW SemiGl Photo2] (*5)			
		[Poster Semi-Gl] (*5)			
		[SatinPhoto 190] (*5)			
		[Photo PaperPlus] (*5)			
		[PhotoPlusSemiGl] (*5)			
		[Syn. Paper] (*5)			
		[Adh. Syn. Paper] (*5)			
		[Backlit Film] (*5)			
		[Backprint Film] (*5)			
		[Flame-Res.Cloth] (*5)			
		[ThinFab.Banner2] (*5)			
		[Proofing Paper] (*5)			
		[News Proof 1] (*5)			
		[News Proof 2] (*5)			
		[FineArt Photo] (*5)			
		[FneArt HW Photo] (*5)			

First Level	Second Level	Third Level	Fourth Level	Fifth Level
[Media Menu]	[Manual Paper Type]	[FineArt Txtr] (*5)		
		[FineArt Wtrclr] (*5)		
		[FineArtBlockP] (*5)		
		[Canvas Matte2] (*5)		
		[JPN Paper Washi] (*5)		
		[Colored Coated] (*5)		
		[CAD Trace Paper] (*5)		
		[CAD Matte Film] (*5)		
		[POP Board] (*5)		
		Special # Here, the number is 1 to 10(*5)		
		[Manual Paper Size]	[ISO A1]	
	[ISO A2+]			
	[ISO A2]			
	[ISO A3+]			
	[ISO A3]			
	[ISO A4]			
	[ISO B2]			
	[ISO B3]			
	[ISO B4]			
	[JIS B2]			
	[JIS B3]			
	[JIS B4]			
	[22"X34" (ANSI D)]			
	[17"X22" (ANSI C)]			
	[11"X17" (Ledger)]			
	[13"X19" (Super B)]			
	[Letter (8.5"X11")]			
	[Legal (8.5"X14")]			
	[24"X36"(ARCH D)]			
	[18"X24"(ARCH C)]			
	[12"X18"(ARCH B)]			
	[9"X12"(ARCH A)]			
	[DIN C2]			
[DIN C3]				
[DIN C4]				

T-1-31

First Level	Second Level	Third Level	Fourth Level	Fifth Level	
[Media Menu]	[Manual Paper Size]	[20"x24"]			
		[18"x22"]			
		[14"x17"]			
		[12"x16"]			
		[10"x12"]			
		[10"x15"]			
		[8"x10"]			
		[16"x20"]			
		[20"X30"]			
		[13"X22"]			
		[300x900 mm]			
		[Free size setting]			
			[Roll Media Type]	[Plain Paper] (*5)	
		[Plain Paper HQ] (*5)			
		[Plain Paper HG] (*5)			
		[Recycled Coated] (*5)			
		[High Resolution] (*5)			
		[Coated Paper] (*5)			
		[HW Coated] (*5)			
		[Ex HW Coated] (*5)			
		[Premium MatteP] (*5)			
		[Matte Photo] (*5)			
		[Glossy Photo] (*5)			
		[Semi-GI Photo] (*5)			
		[HW Glossy Photo2] (*5)			
		[HW SemiGI Photo2] (*5)			
		[Poster Semi-GI] (*5)			
		[SatinPhoto 190] (*5)			
		[Photo PaperPlus] (*5)			
		[PhotoPlusSemiGI] (*5)			
		[Syn. Paper] (*5)			
		[Adh. Syn. Paper] (*5)			
		[Backlit Film] (*5)			
	[Backprint Film] (*5)				
	[Flame-Res.Cloth] (*5)				
	[ThinFab.Banner2] (*5)				
	[Proofing Paper] (*5)				
	[News Proof 1] (*5)				
	[News Proof 2] (*5)				
	[FineArt Photo] (*5)				
	[FineArt HW Photo] (*5)				

First Level	Second Level	Third Level	Fourth Level	Fifth Level
[Media Menu]	[Roll Media Type]	[FineArt Txtr] (*5)		
		[FineArt Wtrclr] (*5)		
		[FineArtBlockP] (*5)		
		[Canvas Matte2] (*5)		
		[JPN Paper Washi] (*5)		
		[Colored Coated] (*5)		
		[CAD Trace Paper] (*5)		
		[CAD Matte Film] (*5)		
		[POP Board] (*5)		
		[Special #]# Here, the number is 1 to 10 (*5)		
	[Chk Remain.Roll]	[Off]*		
	[On]			
[Roll Length Set] (*1, *2)	[### m] (*16)			
	[### feet] (*16)			
[Paper Details]	(The paper type is displayed here.)	[Roll DryingTime]	[Off]	
			[30 sec.]	
			[1 min.]	
			[3 min.]	
			[5 min.]	
			[10 min.]	
			[30 min.]	
			[60 min.]	
		[Scan Wait Time]	[Off]	
			[1 sec.]	
			[3 sec.]	
			[5 sec.]	
			[7 sec.]	
			[9 sec.]	

T-1-33

First Level	Second Level	Third Level	Fourth Level	Fifth Level
[Paper Details]	(The paper type is displayed here.)	[Feed Priority]	[Automatic]	
			[Band Joint]	
			[Print Length]	
		[Adjust Length]	-0.70 to 0.70	
		[Head Height]	[Automatic]	
			[Highest]	
			[High]	
			[Standard]	
			[Low]	
		[Skew Check Lv.]	[Lowest]	
			[High Accuracy]	
			[Standard]	
			[Loose]	
		[VacuumStrngth]	[Off]	
			[Automatic]	
			[Strongest]	
			[Strong]	
			[Standard]	
		[NearEnd RollMrgn]	[Weak]	
			[Weakest]	
			[3mm]	
		[Cut Speed]	[20mm]	
			[Fast]	
		[Trim Edge First]	[Standard]	
			[Slow]	
			[Automatic]	
		[Cutting Mode]	[Off]	
			[On]	
			[Automatic]	
		[Bordless Margin]	[Eject]	
			[Manual]	
		[CutDustReduct.]	[Automatic]	
			[Fixed]	
[NearEnd Sht Mrgn]	[Off]			
	[On]			
[Manual Feed]	[3 mm]			
	[20 mm]			
[Return Defaults]	[Front]			
	[Top]			
	[No]			
	[Yes]			

First Level	Second Level	Third Level	Fourth Level	Fifth Level	
[Adjust Printer]	[Auto Head Adj.]	[Standard Adj.]	[No]		
			[Yes]		
			[Advanced Adj.]		[No]
					[Yes]
			[Auto Print]		[Off]
					[On]*
		[Manual Head Adj] (*12)	[No]		
			[Yes]		
		[Auto Band Adj.]	[Standard Adj.]		[No]
					[Yes]
			[Advanced Adj.]		[No]
					[Yes]
		[Manual Band Adj]	[No]		
			[Yes]		
		[Adj Far Ed Feed]	[No]		
			[Yes]		
		[Adjust Length] (*3)	[No]		
			[Yes]		
		[Calibration]	[Auto Adjust]		[No]
					[Yes]
			[Execution Log]		[Date]
			[Media]		
		[Use Adj. Value]	[No]		
			[Yes]*		
		[Restore Defaults]	[No]		
			[Yes]		
[Interface Setup]	[EOP Timer]	[10 sec.]			
		[30 sec.]			
		[1 min.]			
		[2 min.]			
		[5 min.]			
		[10 min.]*			
		[30 min.]			
		[60 min.]			
		[IP Mode]	[Automatic]		
			[Manual]*		
		[Protocol] (*4)	[DHCP]	[On]	
				[Off]*	

T-1-35

First Level	Second Level	Third Level	Fourth Level	Fifth Level	
[Interface Setup]	[TCP/IP]	[Protocol] (*4)	[BOOTP]	[On]	
				[Off]*	
				[RARP]	[On]
					[Off]*
			[IP Setting] (*14)	[IP Address]	0.0.0.0* to 255.255.255.255
				[Subnet Mask]	0.0.0.0* to 255.255.255.255
		[Default G/W]		0.0.0.0* to 255.255.255.255	
		[NetWare]	[NetWare]	[On]	
				[Off]*	
			[Frame Type] (*6)	[Auto Detect]	
					[Ethernet 2]
					[Ethernet 802.2]*
					[Ethernet 802.3]
				[Ethernet SNAP]	
			[Print Service] (*6)	[BinderyPServer]	
					[RPrinter]
					[NDSPServer]*
				[NPrinter]	
		[AppleTalk]	[On]		
			[Off]*		
		[Ethernet Driver]	[Auto Detect]	[On]	
				[Off]*	
			[Comm.Mode] (*7)	[Half Duplex]*	
					[Full Duplex]
			[Ethernet] (*7)	[10 Base-T]*	
					[100 Base-TX]
			[Spanning Tree]	[Not Use]*	
		[Use]			
		[MAC Address]			
	[Ext.Interface]	[No]*			
		[IEEE1394]			
	[Init. Settings]	[No]*			
			[Yes]		
[Maintenance]	[Repl. maint. cart.]	[No]			
		[Yes]			

First Level	Second Level	Third Level	Fourth Level	Fifth Level	
[Maintenance]	[Replace P.head]	[Printhead L]	[No]		
			[Yes]		
		[Printhead R]	[No]		
			[Yes]		
		[Move Printer]	[No]		
			[Yes]		
		[Clean Platen]	[No]		
			[Yes]		
		[Spur Cleaning]	[No]		
			[Yes]		
[System Setup]	[Warning]	[Buzzer]	[Off]		
			[On]*		
		[Detect Mismatch]	[Pause]		
			[Warning]*		
			[None]		
		[Keep Media Size]	[Off]*		
			[On]		
	[Paper Size Basis]	[Sht Selection]	[ISO A3+]*		
			[13"x19" (Super B)]		
		[Roll Selection 1]	[ISO A3 (297 mm)]		
			[300 mm Roll]		
		[Roll Selection 2]	[10 in. (254 mm)]		
			[JIS B4 (257 mm)]		
	[TrimEdge Reload]		[Off]		
			[On]		
			[Automatic]		
	[Noz. Check Freq.]		[Off]		
			[1 page]		
			[10 pages]		
			[Automatic]*		
[Sleep Timer]		[5 min.]*			
		[10 min.]			
		[15 min.]			
		[20 min.]			
		[30 min.]			
		[40 min.]			
		[50 min.]			
		[60 min.]			
		[240 min.]			

T-1-37

First Level	Second Level	Third Level	Fourth Level	Fifth Level	
[System Setup]	[Length Unit]	[meter]*			
		[feet/inch]			
	[Time Zone]	[0: London (GMT)]			
		[+1: Paris, Rome]			
		[+2: Athens, Cairo]			
		[+3: Moscow]			
		[+4: Erenan, Baku]			
		[+5: Islamabad]			
		[+6: Dacca]			
		[+7: Bangkok]			
		[+8: Hong Kong]			
		[+9: Tokyo, Seoul]			
		[+10: Canberra]			
		[+11: NewCaledonia]			
		[+12: Wellington]			
		[-12: Eniwetok]			
		[-11: Midway is]			
		[-10: Hawaii (AHST)]			
		[-9: Alaska (AKST)]			
		[-8: Oregon (PST)]			
		[-7: Arizona (MST)]			
		[-6: Texas (CST)]			
	[-5: NewYork (EST)]				
	[-4: Santiago]				
	[-3: Buenos Aires]				
	[-2:]				
	[-1: Cape Verde]				
[Date Format]	[yyyy/mm/dd]*				
	[dd/mm/yyyy]				
	[mm/dd/yyyy]				
[Date & Time]	[Date]		[yyyy/mm/dd] (*8)		
	[Time]		[hh: mm]		

First Level	Second Level	Third Level	Fourth Level	Fifth Level	
[System Setup]	[Language]	[Japanese]			
		[English]			
		[Francais]			
		[Italiano]			
		[Deutsch]			
		[Espanol]			
		[Pyccknn]			
		[Chinese]			
	[Contrast Adj.]	-4, -3, -2, -1, 0*, +1, +2, +3, +4			
	[Reset PaprSetngs]	[No]			
		[Yes]			
[Test Print]	[Status Print]	[No]			
		[Yes]			
	[Media Details]	[No]			
		[Yes]			
	[Print Job Log]	[No]			
		[Yes]			
	[Menu Map]	[No]			
		[Yes]			
[Nozzle Check]	[No]				
	[Yes]				
[Information]	[System Info]				
	[Error Log]	[##### #####]			
	[Job Log]	(Choose from information about the latest three print jobs.)	[Document Name]		
			[User Name]		
			[Page Count]		
			[Job Status]		
			[Print Start Time]		
			[Print End Time]		
			[Print Time]		
			[Print Size]		
[Media Type]					
[Interface]					
		[Ink Consumed]			

*1: Displayed if a roll is loaded.

*2: Displayed if Chk Remain.Roll is On.

*3: Displayed if IP Mode is Automatic.

*4: Only these menus are displayed during printing.

*5: For information on the types of paper the printer supports, refer to the Media Guide. The media type setting in the printer driver and related software (as well as on the Control Panel is updated when you install Media Configuration Tool from the User Software CD-ROM or if you change paper information by using Media Configuration Tool.

*6: Available only if Auto Detect is Off.

*7: Available only if NetWare is On.

*8: Follows the setting in Date Format.

*12: Displayed if paper is loaded in the tray.

*14: This menu is only displayed during printing.

*16: Not displayed if a roll or a sheet has been fed.

3. Main menu during printing

The structure of the main menu during printing is as follows.

T-1-39

First Level	Second Level	Third Level	Fourth Level	Fifth Level
[Menu Durng Prtng]	[Head Cleaning]	[Head Cleaning A]		
		[Head Cleaning B]		
	[Fine Band Adj.]	-5 to 5		
	[Information]	[System Info]		
		[Error Log]		
		[Job Log]	(Choose from information about the latest three print jobs.)	[Document Name]
				[User Name]
		[Page Count]		
		[Job Status]		
		[Print Start Time]		
	[Print End Time]			
	[Print Time]	[Print Size]		
		[Media Type]		
		[Interface]		
		[Ink Consumed]		

4. Main Menu Settings

Main menu items are described in the following tables.

T-1-40

Setting Item	Description, Instructions
[Paper Cut]	Displayed if a roll is loaded. Choose Yes to cut the roll at the current position. The paper will be fed, if necessary, so that the sheet is at least 10 cm (39.4 in.) long after the cut. The paper will not be cut if there is not enough paper left to feed the paper this much.
[Rep. Ink Tank]	When exchanging the ink tank, choose Yes and follow the instructions on the screen.
[Head Cleaning]	Specify Printhead cleaning options. Choose Head Cleaning A if printing is faint, oddly colored, or contains foreign substances. Choose Head Cleaning B if no ink is printed at all, or if printing is not improved by Head Cleaning A .
[Media Menu]	Specify the type and size of paper.
[Paper Details]	Specify detailed paper-related settings, including the ink drying time and borderless printing options.
[Adjust Printer]	Adjust the Printhead alignment or amount of feed by printing a test pattern.
[Interface Setup]	Configure the network settings.
[Maintenance]	Replace the Printhead , prepare to transfer the printer, and clean the Pick Up Roller .
[System Setup]	Specify the printer system settings, including the date format and display language.
[Test Print]	Choose Status Print to print information about the printer. Choose Media Details to print the paper settings as specified in Med.Detail Set. . Choose Print Job Log to print a record of print jobs, including the paper type and size, amount of ink used, and so on. Choose Menu Map to print a list of the main menu options. Choose Nozzle Check to print a test pattern for checking the nozzles. If you have selected a leading edge margin of 20 mm in Nr End Sht Mrgn in the printer menu, the test print sheet may not be printed completely.
[Information]	Displays the information about the printer and history of print jobs.

[Paper Settings]

T-1-41

Setting Item	Description, Instructions
[Roll Media Type]	Choose the type of roll.
[Chk Remain.Roll]	Choose On to print a barcode at the end of a roll before you remove it. The printed barcode can be used in managing the amount of roll paper left. Choose Off if you prefer not to print the barcode.
[Roll Length Set]	Displayed if Chk Remain.Roll is On . If a barcode is not printed on rolls, specify the roll length. The roll length is displayed in meters (1.0 - 91.0 m) or feet (1 - 300 ft.), depending on the setting in Length Unit .
[Manual Paper Type]	Choose the type of manual feed paper.
[Manual Paper Size]	Choose the size of manual feed paper.

[Paper Details]

T-1-42

Setting Item	Description, Instructions	
(The paper type is displayed here.)	[Roll DryingTime]	Specify the time to wait for the ink to dry for each sheet.
	[Scan Wait Time]	Specify the time to wait for the ink to dry between each scan in bidirectional printing, in consideration of how quickly the paper absorbs ink. Note that printing will take longer if you specify a wait time.
	[Feed Priority]	Specify exact paper feeding, if desired. Normally, select Automatic . Choose Print Length if you prefer to feed the paper an exact amount. However, note that choosing Print Length may result in slight banding in the direction of Carriage scanning.
	[Adjust Length]	Displayed if Feed Priority is Print Length . Adjustment relative to the amount of stretching or shrinkage of the current paper. For paper that tends to stretch, increase the feed amount by setting the adjustment value toward +. For paper that tends to shrink, decrease the feed amount by setting the adjustment value toward -. The setting for the amount of paper stretching or shrinkage is relative. If you access it again later, it will be displayed as 0.00 %.
	[Head Height]	Adjust the Printhead height.
	[Skew Check Lv.]	If you print on Japanese Paper Washi or other handmade paper that has an irregular width, choose Loose for a higher skew detection threshold, or choose Off to disable skew detection. However, if paper is loaded askew when detection is Off , note that paper jams or Platen soiling may occur. If strict skew detection is required, choose High Accuracy.
	[VacuumStrngth]	Specify the level of suction that holds paper against the Platen .
	[NearEnd RollMrgn]	Specify a margin at the leading edge of roll paper to ensure better printing quality at the leading edge. Note that if you choose 3 mm , it may lower the printing quality at the leading edge and affect feeding accuracy. The printed surface may be scratched, and ink may adhere to the the leading edge.
	[Cut Speed]	Choose the cutting speed. For media such as film that are more likely to generate debris when cut, choose Fast to reduce the amount of debris.
	[Trim Edge First]	If a roll is loaded, the end of the paper will be cut. Choose Forced to have 40 mm (1.6 in) cut off the leading edge of the roll, ensuring a straight edge, after you load the roll. Scraps are then removed. When Automatic is selected, if the left and right side of the leading edge of the roll are uneven (by 3 mm [0.12 in] or more), the edge is cut an amount relative to the slant to ensure a straight edge after you load the roll. Scraps are then removed. If the unevenness is less than 3 mm or if No Cutting is selected, the edge is not cut and scraps are not removed.
	[Cutting Mode]	Specify if the Cutter Unit is used for cutting. Choose Automatic to have roll paper cut automatically after printing. If you choose Eject , the paper will not be cut after printing. Instead, a line will be printed at the cut position.
	[Bordless Margin]	Adjust the margin during borderless printing.
	[CutDustReduct.]	Choose On to reduce the amount of debris generated when cutting film and similar media by printing a line at the cut position. This option reduces the amount of debris given off after cutting.
	[Manual Feed]	Choose how the paper is supplied, Top for printing from the Tray or Front for printing from the Front Paper Feed Slot .
	[NearEnd Sht Mrgn]	Specify a margin at the leading edge of sheets to ensure better printing quality at the leading edge. Note that if you choose 3 mm , it may lower the printing quality at the leading edge and affect feeding accuracy. The printed surface may be scratched, and ink may adhere to the the leading edge. If you have selected 20 mm , the test print sheet may not be printed completely.
[Return Defaults]	Choose Yes to restore Med.Detail Set. to the factory default values.	

[Adjust Printer]

Setting Item		Description, Instructions
[Auto Head Adj.]	[Standard Adj.]	Choose Yes to have the printer print and read a test pattern for the automatic adjustment of Printhead alignment relative to the printing direction.
	[Advanced Adj.]	Choose Yes to have the printer print and read a test pattern for the automatic adjustment of Printhead alignment relative to the nozzle, ink tank, and printing direction. Three sheets are required when printing on sheets.
	[Auto Print]	Choose On to have the printer automatically execute the Advanced Adj. operations after you replace the Printhead .
[Manual Head Adj]		Choose Yes to print a test pattern for adjustment of Printhead alignment relative to the printing direction. Enter the adjustment value manually based on the resulting pattern.
[Auto Band Adj.]	[Standard Adj.]	Choose Yes to have the printer print and read a test pattern for band adjustment, based on which the printer automatically adjusts the feed amount.
	[Advanced Adj.]	Choose this option when using paper other than genuine Canon paper, or paper for purposes other than checking output. Choose Yes to have the printer print and read a test pattern for band adjustment, based on which the printer automatically adjusts the feed amount. Note that this function takes more time and requires more ink than Standard Adj. Two sheets are required when printing on sheets.
[Manual Band Adj]		Choose Yes to print a test pattern for adjusting the feed amount based on the paper type. Two sheets are required when printing on sheets.
[Adj Far Ed Feed]		[Choose Yes to print a test pattern for adjusting the feed amount of the trailing edge of paper based on the paper type.
[Adjust Length]		Choose Yes to print a test pattern for adjustment relative to paper stretching or shrinkage, after which you can enter the amount of adjustment.
[Calibration]	[Auto Adjust]	Select [Yes] to print a color calibration adjustment pattern and adjust the correction value automatically. This color calibration adjustment value is extended to all print tasks.
	[Execution Log]	The date of color calibration and the paper type are displayed for visual verification.
	[Use Effect Value]	Select [Disable] and press the [OK] button not to apply the color calibration correction value to printing. The printer driver setting governs. Select [Enable] and press the [OK] button to apply the color calibration correction value to printing. It is overridden by the printer driver setting, though.
	[Return Defaults]	The color calibration correction value and the execution history are cleared.

[Interface Setup]

T-1-44

Setting Item		Description, Instructions	
[EOP Timer]		Specify the timeout period for print jobs.	
[TCP/IP]	[IP Mode]	Choose whether the printer IP address is configured automatically or a static IP address is entered manually.	
	[Protocol]	[DHCP]	Specify the protocol used to configure the IP address automatically.
		[BOOTP]	
		[RARP]	
[IP Setting]	[IP Address]	Specify the printer network information when using a static IP address.	
	[Subnet Mask]	Enter the IP address assigned to the printer, as well as the network subnet mask and default gateway.	
	[Default G/W]		
[NetWare]	[NetWare]	Specify the NetWare protocol. To apply your changes, choose Store Setting .	
	[Frame Type]	Specify the frame type to use.	
	[Print Service]	Choose the print service.	
[AppleTalk]		Specify whether to use the AppleTalk protocol. To apply your changes, choose Store Setting .	
[Ethernet Driver]	[Auto Detect]	Specify the communication method. To apply your changes, choose Store Setting . Choose On for automatic configuration of the LAN communication protocol. Choose Off to use settings values of Comm.Mode and Ethernet Type .	
	[Comm.Mode]	Choose the LAN communication method.	
	[Ethernet Type]	Choose the LAN transfer rate.	
	[Spanning Tree]	Choose whether spanning-tree packets are supported over the LAN.	
[MAC Address]		Displays the MAC address.	
[Ext.Interface]		When installing the expansion interface board, choose whether the expansion interface board is used.	
[Init. Settings]		A confirmation message is displayed if you press the ▼ button. Choose [OK] to restore the network settings to the default values.	

[Maintenance]

T-1-45

Setting Item	Description, Instructions
[Maint. cart.]	When exchanging the maintenance cartridge, choose Yes and follow the instructions on the screen.
[Replace P.head]	Not displayed during a warning message that the remaining Maintenance Cartridge capacity is low. When replacing the Printhead , choose Yes and follow the instructions on the screen.
[Move Printer]	Not displayed during a warning message that the remaining Maintenance Cartridge capacity is low. When transferring the printer to another location, choose Yes and follow the instructions on the screen.
[Clean Platen]	Use this function to clean inside the Top Cover . After you select Yes , the Carriage is moved in preparation for Platen cleaning.
[Spur Cleaning]	Choose Yes to clean the spur. Use the cleaning sheet come with the printer.

Setting Item		Description, Instructions
[Warning]	[Buzzer]	Set the buzzer. Choose On for the buzzer to sound in case of errors.
	[Detect Mismatch]	Choose Warning for notification (display of a warning message) during printing if the paper type specified in the printer menu does not match the paper type in the printer driver. Choose None to continue print without notification. Choose Pause to have printing paused under these circumstances. In this case, you can continue printing by pressing the Online button.
[Keep Media Size]		Choose On to use the paper size setting as the basis for printing instead of other settings. The margin setting of the printer menu will be used instead of the margin setting of the printer driver if the latter is smaller, which may prevent text or images in the margin from being printed. Choose Off to use the printer driver settings instead. Even if the margin setting of the printer driver is smaller than that of the printer driver, text or images will not be cut off. However, this requires longer paper because the actual margin will be equal to the margin setting of the printer driver plus the margin setting of the printer menu.
[Paper Size Basis]	[Sht Selection]	If sheet size detection is activated, choose whether ISO A3+ or ANSI B Super is applied when an inbetween size is detected.
	[Sht Selection 1]	If roll size detection is activated, choose whether ISO A3 (297 mm) and 300 mm Roll is applied when an inbetween size is detected.
	[Sht Selection 2]	If roll size detection is activated, choose whether 10in. (254 mm) or JIS B4 (257 mm) is applied when an inbetween size is detected.
[TrimEdge Reload]		Keeping a roll in the printer for a long time without printing on it may leave a depression on the leading edge. When printing quality is most important, we recommend setting this option to On so that the paper edge is automatically cut before printing.
[Noz. Check Freq.]		Specify the timing for automatic checks of nozzle clogging. Choose Off to disable checking. Choose 1 page to check after each page is printed. Choose 10 pages to check once after every ten pages are printed.
[Sleep Timer]		Specify the period before the printer enters sleep mode.
[Length Unit]		Choose the unit of measurement when roll length is displayed. You can switch the unit displayed for Roll Length Set and the remaining paper amount displayed in the submenu.
[Time Zone]		Specify the time zone. Time zone options indicate a main city in this time zone and the difference from Greenwich Mean Time.
[Date Format]		Specify the date format.
[Date & Time]	[Date]	Set the current date.
	[Time]	Set the current time.
[Language]		Specify the language used on the Display Screen.
[Contrast Adj.]		Adjust the contrast of the Display Screen.
[Reset PaprSetngs]		Restores settings that you have changed with Media Configuration Tool to the factory default values.

[Information]

T-1-47

Setting Item		Description, Instructions	
[System Info]	[Firmware]	Displays the version of the printer and firmware.	
	[Boot: ##.##]	Displays the Boot ROM version of the printer.	
	[MIT]	Displays the DB format version of the MIT.	
	[IP:]	Displays the printer IP address.	
	[Ext.Interface:]	Displays the interface used the expansion slot.	
	[s/n:]	Displays the printer serial number.	
[Error Log]	[#####.#####]	Displays the most recent error messages (up to two).	
[Job Log]	(Choose from information about the latest three print jobs.)	[Document Name]	Displays the document name in the last print job.
		[User Name]	Displays the name of the user who sent the print job.
		[Page Count]	Displays the number of pages in the print job.
		[Job Status]	Displays the results of the print job processed.
		[Print Start Time]	Displays the time when the print job was started.
		[Print End Time]	Displays the time when the print job was finished.
		[Print Time]	Displays the time required to print the job.
		[Print Size]	Displays the paper size in the print job.
		[Media Type]	Displays the paper type in the print job.
		[Interface]	Displays the interface used for the print job.
		[Ink Consumed]	Displays the ink density of each color in the print job.

5. Main Menu Settings (During Printing)

Main menu items during printing are described in the following tables.

T-1-48

Setting Item	Description, Instructions
[Head Cleaning]	Specify Printhead cleaning options. Choose Head Cleaning A if printing is faint, oddly colored, or contains foreign substances. Choose Head Cleaning B if no ink is printed at all, or if printing is not improved by Head Cleaning A.
[Fine Band Adj.]	Displayed during print jobs. Fine-tune the feed amount manually.
[Information]	Displays the information about the printer and history of print jobs.

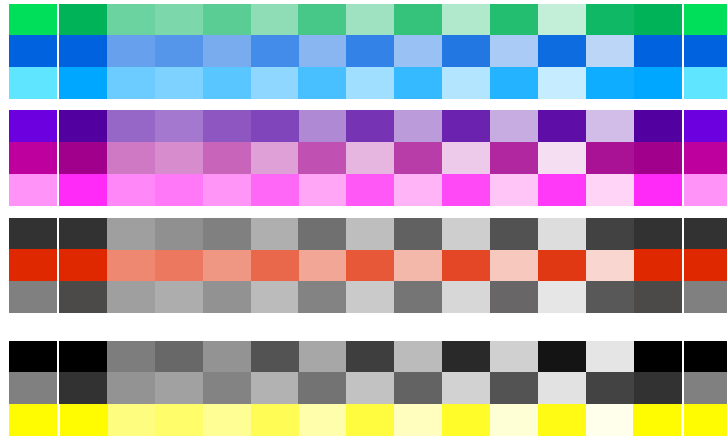
[Information]

T-1-49

Setting Item	Description, Instructions		
[System Info]	[Firmware]	Displays the version of the printer and firmware.	
	[Boot: ##.##]	Displays the Boot ROM version of the printer.	
	[MIT]	Displays the DB format version of the MIT.	
	[IP:]	Displays the printer IP address.	
	[Ext.Interface:]	Displays the interface used the expansion slot.	
	[s/n:]	Displays the printer serial number.	
[Error Log]	[#####.#####]	Displays the most recent error messages (up to two).	
[Job Log]	(Choose from information about the latest three print jobs.)	[Document Name]	Displays the document name in the last print job.
		[User Name]	Displays the name of the user who sent the print job.
		[Page Count]	Displays the number of pages in the print job.
		[Job Status]	Displays the results of the print job processed.
		[Print Start Time]	Displays the time when the print job was started.
		[Print End Time]	Displays the time when the print job was finished.
		[Print Time]	Displays the time required to print the job.
		[Print Size]	Displays the paper size in the print job.
		[Media Type]	Displays the paper type in the print job.
		[Interface]	Displays the interface used for the print job.
		[Ink Consumed]	Displays the ink density of each color in the print job.

6. Color calibration print chart

The following chart (sample) is printed when executing "Calibration".



F-1-52

1.6.6 Main Menu

iPF6200

The printer has a Main menu which includes a menu related to maintenance such as adjustment of ink ejection position of each nozzle and head cleaning, a menu related to printing settings such as auto cutting and ink drying time, and a menu related to parameters such as a message language.

1. Main menu operations

a) How to enter the Main menu

To enter the Main menu, press the [Menu] button on the operation panel.

b) How to exit the Main menu

To exit the Main menu, press the [Online] button.

c) Buttons used with the Main menu

- Selecting menus and parameters: [◀] or [▶] button
- Going to the next lower-level menu: [▼] button
- Going to the next higher-level menu: [▲] button
- Determining a selected menu or parameter: [OK] button

2. Main Menu

The structure of the main menu is as follows.

T-1-50

First Level	Second Level	Third Level	Fourth Level	Fifth Level
[Paper Cut] (*1)	[No]			
	[Yes]			
[Rep.Ink Tank]	[No]			
	[Yes]			
[Head Cleaning]	[Head Cleaning A]			
	[Head Cleaning B]			
[Media Menu]	[Manual Paper Type]	[Plain Paper] (*5)		
		[Plain Paper HQ] (*5)		
		[Plain Paper HG] (*5)		
		[Recycled Coated] (*5)		
		[High Resolution] (*5)		
		[Coated Paper] (*5)		
		[HW Coated] (*5)		
		[Ex HW Coated] (*5)		
		[Premium MatteP] (*5)		
		[Matte Photo] (*5)		
		[Glossy Photo] (*5)		
		[Semi-Gl Photo] (*5)		
		[HW Glossy Photo2] (*5)		
		[HW SemiGl Photo2] (*5)		
		[Poster Semi-Gl] (*5)		
		[SatinPhoto 190] (*5)		
		[Photo PaperPlus] (*5)		
		[PhotoPlusSemiGl] (*5)		
		[Syn. Paper] (*5)		
		[Adh. Syn. Paper] (*5)		
		[Backlit Film] (*5)		
		[Backprint Film] (*5)		
		[Flame-Res.Cloth] (*5)		
		[ThinFab.Banner2] (*5)		
		[Proofing Paper] (*5)		
		[News Proof 1] (*5)		
		[News Proof 2] (*5)		
[FineArt Photo] (*5)				
[FneArt HW Photo] (*5)				

First Level	Second Level	Third Level	Fourth Level	Fifth Level
[Media Menu]	[Manual Paper Type]	[FineArt Txtr] (*5)		
		[FineArt Wtrclr] (*5)		
		[FineArtBlockP] (*5)		
		[Canvas Matte2] (*5)		
		[JPN Paper Washi] (*5)		
		[Colored Coated] (*5)		
		[CAD Trace Paper] (*5)		
		[CAD Matte Film] (*5)		
		[POP Board] (*5)		
		Special # Here, the number is 1 to 10(*5)		
		[Manual Paper Size]	[ISO A1]	
	[ISO A2+]			
	[ISO A2]			
	[ISO A3+]			
	[ISO A3]			
	[ISO A4]			
	[ISO B2]			
	[ISO B3]			
	[ISO B4]			
	[JIS B2]			
	[JIS B3]			
	[JIS B4]			
	[22"X34" (ANSI D)]			
	[17"X22" (ANSI C)]			
	[11"X17" (Ledger)]			
	[13"X19" (Super B)]			
	[Letter (8.5"X11")]			
	[Legal (8.5"X14")]			
	[24"X36"(ARCH D)]			
	[18"X24"(ARCH C)]			
	[12"X18"(ARCH B)]			
	[9"X12"(ARCH A)]			
	[DIN C2]			
[DIN C3]				
[DIN C4]				

T-1-52

First Level	Second Level	Third Level	Fourth Level	Fifth Level	
[Media Menu]	[Manual Paper Size]	[20"x24"]			
		[18"x22"]			
		[14"x17"]			
		[12"x16"]			
		[10"x12"]			
		[10"x15"]			
		[8"x10"]			
		[16"x20"]			
		[20"X30"]			
		[13"X22"]			
		[300x900 mm]			
		[Free size setting]			
		[Roll Media Type]	[Plain Paper] (*5)		
			[Plain Paper HQ] (*5)		
	[Plain Paper HG] (*5)				
	[Recycled Coated] (*5)				
	[High Resolution] (*5)				
	[Coated Paper] (*5)				
	[HW Coated] (*5)				
	[Ex HW Coated] (*5)				
	[Premium MatteP] (*5)				
	[Matte Photo] (*5)				
	[Glossy Photo] (*5)				
	[Semi-GI Photo] (*5)				
	[HW Glossy Photo2] (*5)				
	[HW SemiGI Photo2] (*5)				
	[Poster Semi-GI] (*5)				
	[SatinPhoto 190] (*5)				
	[Photo PaperPlus] (*5)				
	[PhotoPlusSemiGI] (*5)				
	[Syn. Paper] (*5)				
	[Adh. Syn. Paper] (*5)				
	[Backlit Film] (*5)				
	[Backprint Film] (*5)				
[Flame-Res.Cloth] (*5)					
[ThinFab.Banner2] (*5)					
[Proofing Paper] (*5)					
[News Proof 1] (*5)					
[News Proof 2] (*5)					
[FineArt Photo] (*5)					
[FineArt HW Photo] (*5)					

First Level	Second Level	Third Level	Fourth Level	Fifth Level
[Media Menu]	[Roll Media Type]	[FineArt Txtr] (*5)		
		[FineArt Wtrclr] (*5)		
		[FineArtBlockP] (*5)		
		[Canvas Matte2] (*5)		
		[JPN Paper Washi] (*5)		
		[Colored Coated] (*5)		
		[CAD Trace Paper] (*5)		
		[CAD Matte Film] (*5)		
		[POP Board] (*5)		
		[Special #]# Here, the number is 1 to 10 (*5)		
	[Chk Remain.Roll]	[Off]*		
	[On]			
[Roll Length Set] (*1, *2)		[### m] (*16)		
		[### feet] (*16)		
[Paper Details]	(The paper type is displayed here.)	[Roll DryingTime]	[Off]	
			[30 sec.]	
			[1 min.]	
			[3 min.]	
			[5 min.]	
			[10 min.]	
			[30 min.]	
			[60 min.]	
		[Scan Wait Time]	[Off]	
			[1 sec.]	
			[3 sec.]	
			[5 sec.]	
			[7 sec.]	
			[9 sec.]	

T-1-54

First Level	Second Level	Third Level	Fourth Level	Fifth Level
[Paper Details]	(The paper type is displayed here.)	[Feed Priority]	[Automatic]	
			[Band Joint]	
			[Print Length]	
		[Adjust Length]	-0.70 to 0.70	
		[Head Height]	[Automatic]	
			[Highest]	
			[High]	
			[Standard]	
			[Low]	
		[Skew Check Lv.]	[Lowest]	
			[High Accuracy]	
			[Standard]	
			[Loose]	
		[VacuumStrngth]	[Off]	
			[Automatic]	
			[Strongest]	
			[Strong]	
			[Standard]	
		[NearEnd RollMrgn]	[Weak]	
			[Weakest]	
			[3mm]	
		[Cut Speed]	[20mm]	
			[Fast]	
			[Standard]	
		[Trim Edge First]	[Slow]	
			[Automatic]	
			[Off]	
		[Cutting Mode]	[On]	
			[Automatic]	
			[Eject]	
		[Bordless Margin]	[Manual]	
			[Automatic]	
		[CutDustReduct.]	[Fixed]	
[Off]				
[NearEnd Sht Mrgn]	[On]			
	[3 mm]			
[Manual Feed]	[20 mm]			
	[Front]			
	[Top]			
[Return Defaults]	[No]			
	[Yes]			
[Job Management]	[Job Queue Ope.]	[Job List]	(Choose a print job)	[Delete]
				[Priority]
	[Com. BOX Ope.]	[Job List]	(Choose a print job)	[Print]
				[Delete]
	[Psnl. BOX Ope.]	[Folder List] (Enter a password if one has been set.)	[Print Job List]	[No]
				[Yes]
			[Job List] (Choose a print job)	[Print]
				[Delete]
			[Print Job List]	[No]
				[Yes]

First Level	Second Level	Third Level	Fourth Level	Fifth Level	
[Adjust Printer]	[Auto Head Adj.]	[Standard Adj.]	[No]		
			[Yes]		
			[Advanced Adj.]		[No]
					[Yes]
			[Auto Print]		[Off]
					[On]*
		[Manual Head Adj] (*12)	[No]		
			[Yes]		
		[Auto Band Adj.]	[Standard Adj.]		[No]
					[Yes]
			[Advanced Adj.]		[No]
					[Yes]
		[Manual Band Adj]	[No]		
			[Yes]		
		[Adj Far Ed Feed]	[No]		
			[Yes]		
		[Adjust Length] (*3)	[No]		
			[Yes]		
		[Calibration]	[Auto Adjust]		[No]
					[Yes]
			[Execution Log]		[Date]
			[Media]		
		[Use Adj. Value]	[No]		
			[Yes]*		
		[Restore Defaults]	[No]		
			[Yes]		
[Interface Setup]	[EOP Timer]	[10 sec.]			
		[30 sec.]			
		[1 min.]			
		[2 min.]			
		[5 min.]			
		[10 min.]*			
		[30 min.]			
		[60 min.]			
		[TCP/IP]	[IP Mode]	[Automatic]	
				[Manual]*	
			[Protocol] (*4)	[DHCP]	
				[On]	
				[Off]*	

T-1-56

First Level	Second Level	Third Level	Fourth Level	Fifth Level	
[Interface Setup]	[TCP/IP]	[Protocol] (*4)	[BOOTP]	[On]	
				[Off]*	
			[RARP]	[On]	
			[Off]*		
		[IP Setting] (*14)	[IP Address]	0.0.0.0* to 255.255.255.255	
			[Subnet Mask]	0.0.0.0* to 255.255.255.255	
			[Default G/W]	0.0.0.0* to 255.255.255.255	
		[NetWare]	[NetWare]	[On]	
				[Off]*	
	[Frame Type] (*6)			[Auto Detect]	
			[Ethernet 2]		
			[Ethernet 802.2]*		
			[Ethernet 802.3]		
			[Ethernet SNAP]		
	[Print Service] (*6)		[BinderyPServer]		
			[RPrinter]		
			[NDSPServer]*		
			[NPrinter]		
	[AppleTalk]		[On]		
		[Off]*			
	[Ethernet Driver]	[Auto Detect]	[On]		
			[Off]*		
		[Comm.Mode] (*7)	[Half Duplex]*		
			[Full Duplex]		
[Ethernet] (*7)		[10 Base-T]*			
		[100 Base-TX]			
[Spanning Tree]		[Not Use]*			
		[Use]			
	[MAC Address]				
[Init. Settings]	[No]*				
	[Yes]				
[Maintenance]	[Repl. maint. cart.]	[No]			
		[Yes]			

First Level	Second Level	Third Level	Fourth Level	Fifth Level	
[Maintenance]	[Replace P.head]	[Printhead L]	[No]		
			[Yes]		
		[Printhead R]	[No]		
			[Yes]		
		[Move Printer]	[No]		
			[Yes]		
		[Clean Platen]	[No]		
			[Yes]		
		[Spur Cleaning]	[No]		
			[Yes]		
[System Setup]	[Warning]	[Buzzer]	[Off]		
			[On]*		
			[Detect Mismatch]		[Pause]
					[Warning]*
			[None]		
		[Keep Media Size]	[Off]*		
			[On]		
	[Paper Size Basis]	[Sht Selection]	[ISO A3+]*		
			[13"x19" (Super B)]		
		[Roll Selection 1]	[ISO A3 (297 mm)]		
			[300 mm Roll]		
		[Roll Selection 2]	[10 in. (254 mm)]		
			[JIS B4 (257 mm)]		
	[TrimEdge Reload]		[Off]		
			[On]		
			[Automatic]		
	[Noz. Check Freq.]		[Off]		
			[1 page]		
			[10 pages]		
			[Automatic]*		
[Sleep Timer]		[5 min.]*			
		[10 min.]			
		[15 min.]			
		[20 min.]			
		[30 min.]			
		[40 min.]			
		[50 min.]			
		[60 min.]			
		[240 min.]			

T-1-58

First Level	Second Level	Third Level	Fourth Level	Fifth Level	
[System Setup]	[Length Unit]	[meter]*			
		[feet/inch]			
	[Time Zone]	[0: London (GMT)]			
		[+1: Paris, Rome]			
		[+2: Athens, Cairo]			
		[+3: Moscow]			
		[+4: Erenan, Baku]			
		[+5: Islamabad]			
		[+6: Dacca]			
		[+7: Bangkok]			
		[+8: Hong Kong]			
		[+9: Tokyo, Seoul]			
		[+10: Canberra]			
		[+11: NewCaledonia]			
		[+12: Wellington]			
		[-12: Eniwetok]			
		[-11: Midway is]			
		[-10: Hawaii (AHST)]			
		[-9: Alaska (AKST)]			
		[-8: Oregon (PST)]			
		[-7: Arizona (MST)]			
		[-6: Texas (CST)]			
	[-5: NewYork (EST)]				
	[-4: Santiago]				
	[-3: Buenos Aires]				
	[-2:]				
	[-1: Cape Verde]				
[Date Format]	[yyyy/mm/dd]*				
	[dd/mm/yyyy]				
	[mm/dd/yyyy]				
[Date & Time]	[Date]		[yyyy/mm/dd] (*8)		
	[Time]		[hh: mm]		

First Level	Second Level	Third Level	Fourth Level	Fifth Level	
[System Setup]	[Language]	[Japanese]			
		[English]			
		[Francais]			
		[Italiano]			
		[Deutsch]			
		[Espanol]			
		[Pyccknn]			
		[Chinese]			
	[Korea]				
	[Contrast Adj.]	-4, -3, -2, -1, 0*, +1, +2, +3, +4			
	[Reset PaprSetngs]	[No]			
		[Yes]			
[Erase HDD Data]	[High Speed]	[No]			
		[Yes]			
	[Secure High Spd.]	[No]			
		[Yes]			
[Secure]	[No]				
	[Yes]				
[Output Method]	[Print]*				
	[Print(auto delete)]				
	[Save in mail box]				
[Save beforePrint]	[Off]*				
	[On]				
[Save in Comm.Box]	[Off]				
	[On]				
[Test Print]	[Status Print]	[No]			
		[Yes]			
	[Media Details]	[No]			
		[Yes]			
	[Print Job Log]	[No]			
		[Yes]			
	[Menu Map]	[No]			
		[Yes]			
[Nozzle Check]	[No]				
	[Yes]				
[Information]	[System Info]				
	[Error Log]	[#####-####]			
	[Job Log]	(Choose from information about the latest three print jobs.)	[Document Name]		
			[User Name]		
			[Page Count]		
			[Job Status]		
			[Print Start Time]		
			[Print End Time]		
			[Print Time]		
			[Print Size]		
[Media Type]					
[Interface]					
	[Ink Consumed]				
[HDD Information]	[HDD Space]		[xx.xGB]		

*1: Displayed if a roll is loaded.

*2: Displayed if Chk Remain.Roll is On.

*3: Displayed if IP Mode is Automatic.

*4: Only these menus are displayed during printing.

*5: For information on the types of paper the printer supports, refer to the Media Guide. The media type setting in the printer driver and related software (as well as on the Control Panel is updated when you install Media Configuration Tool from the User Software CD-ROM or if you change paper information by using Media Configuration Tool.

*6: Available only if Auto Detect is Off.

*7: Available only if NetWare is On.

*8: Follows the setting in Date Format.

*12: Displayed if paper is loaded in the tray.

*14: This menu is only displayed during printing.

*16: Not displayed if a roll or a sheet has been fed.

3. Main menu during printing

The structure of the main menu during printing is as follows.

T-1-60

First Level	Second Level	Third Level	Fourth Level	Fifth Level
[Menu Durng Prtng]	[Head Cleaning]	[Head Cleaning A]		
		[Head Cleaning B]		
	[Fine Band Adj.]	-5 to 5		
	[Information]	[System Info]		
		[Error Log]		
		[Job Log]	(Choose from information about the latest three print jobs.)	[Document Name]
				[User Name]
				[Page Count]
				[Job Status]
				[Print Start Time]
			[Print End Time]	
			[Print Time]	
			[Print Size]	
			[Media Type]	
			[Interface]	
			[Ink Consumed]	
		[HDD Information]	[HDD Space]	[xx.xGB]

4. Main Menu Settings

Main menu items are described in the following tables.

T-1-61

Setting Item	Description/Instructions
[Paper Cut]	Displayed if a roll is loaded. Choose Yes to cut the roll at the current position. The paper will be fed, if necessary, so that the sheet is at least 10 cm (39.4 in.) long after the cut. The paper will not be cut if there is not enough paper left to feed the paper this much.
[Rep. Ink Tank]	When exchanging the ink tank, choose Yes and follow the instructions on the screen.
[Head Cleaning]	Specify Printhead cleaning options. Choose Head Cleaning A if printing is faint, oddly colored, or contains foreign substances. Choose Head Cleaning B if no ink is printed at all, or if printing is not improved by Head Cleaning A .
[Media Menu]	Specify the type and size of paper.
[Paper Details]	Specify detailed paper-related settings, including the ink drying time and borderless printing options.
[Job Management]	Manage print jobs on the printer's hard disk.
[Adjust Printer]	Adjust the Printhead alignment or amount of feed by printing a test pattern.
[Interface Setup]	Configure the network settings.
[Maintenance]	Replace the Printhead , prepare to transfer the printer, and clean the Pick Up Roller .
[System Setup]	Specify the printer system settings, including the date format and display language.
[Test Print]	Choose Status Print to print information about the printer. Choose Media Details to print the paper settings as specified in Med.Detail Set. . Choose Print Job Log to print a record of print jobs, including the paper type and size, amount of ink used, and so on. Choose Menu Map to print a list of the main menu options. Choose Nozzle Check to print a test pattern for checking the nozzles. If you have selected a leading edge margin of 20 mm in Nr End Sht Mrgn in the printer menu, the test print sheet may not be printed completely.
[Information]	Displays the information about the printer and history of print jobs.

[Paper Settings]

T-1-62

Setting Item	Description/Instructions
[Roll Media Type]	Choose the type of roll.
[Chk Remain.Roll]	Choose On to print a barcode at the end of a roll before you remove it. The printed barcode can be used in managing the amount of roll paper left. Choose Off if you prefer not to print the barcode.
[Roll Length Set]	Displayed if Chk Remain.Roll is On . If a barcode is not printed on rolls, specify the roll length. The roll length is displayed in meters (1.0 - 91.0 m) or feet (1 - 300 ft.), depending on the setting in Length Unit .
[Manual Paper Type]	Choose the type of manual feed paper.
[Manual Paper Size]	Choose the size of manual feed paper.

[Paper Details]

T-1-63

Setting Item	Description/Instructions	
(The paper type is displayed here.)	[Roll DryingTime]	Specify the time to wait for the ink to dry for each sheet.
	[Scan Wait Time]	Specify the time to wait for the ink to dry between each scan in bidirectional printing, in consideration of how quickly the paper absorbs ink. Note that printing will take longer if you specify a wait time.
	[Feed Priority]	Specify exact paper feeding, if desired. Normally, select Automatic . Choose Print Length if you prefer to feed the paper an exact amount. However, note that choosing Print Length may result in slight banding in the direction of Carriage scanning.
	[Adjust Length]	Displayed if Feed Priority is Print Length . Adjustment relative to the amount of stretching or shrinkage of the current paper. For paper that tends to stretch, increase the feed amount by setting the adjustment value toward +. For paper that tends to shrink, decrease the feed amount by setting the adjustment value toward -. The setting for the amount of paper stretching or shrinkage is relative. If you access it again later, it will be displayed as 0.00 %.
	[Head Height]	Adjust the Printhead height.
	[Skew Check Lv.]	If you print on Japanese Paper Washi or other handmade paper that has an irregular width, choose Loose for a higher skew detection threshold, or choose Off to disable skew detection. However, if paper is loaded askew when detection is Off , note that paper jams or Platen soiling may occur. If strict skew detection is required, choose High Accuracy.
	[VacuumStrngth]	Specify the level of suction that holds paper against the Platen .
	[NearEnd RollMrgn]	Specify a margin at the leading edge of roll paper to ensure better printing quality at the leading edge. Note that if you choose 3 mm , it may lower the printing quality at the leading edge and affect feeding accuracy. The printed surface may be scratched, and ink may adhere to the the leading edge.
	[Cut Speed]	Choose the cutting speed. For media such as film that are more likely to generate debris when cut, choose Fast to reduce the amount of debris.
	[Trim Edge First]	If a roll is loaded, the end of the paper will be cut. Choose Forced to have 40 mm (1.6 in) cut off the leading edge of the roll, ensuring a straight edge, after you load the roll. Scraps are then removed. When Automatic is selected, if the left and right side of the leading edge of the roll are uneven (by 3 mm [0.12 in] or more), the edge is cut an amount relative to the slant to ensure a straight edge after you load the roll. Scraps are then removed. If the unevenness is less than 3 mm or if No Cutting is selected, the edge is not cut and scraps are not removed.
	[Cutting Mode]	Specify if the Cutter Unit is used for cutting. Choose Automatic to have roll paper cut automatically after printing. If you choose Eject , the paper will not be cut after printing. Instead, a line will be printed at the cut position.
	[Bordless Margin]	Adjust the margin during borderless printing.
	[CutDustReduct.]	Choose On to reduce the amount of debris generated when cutting film and similar media by printing a line at the cut position. This option reduces the amount of debris given off after cutting.
	[Manual Feed]	Choose how the paper is supplied, Top for printing from the Tray or Front for printing from the Front Paper Feed Slot .
	[NearEnd Sht Mrgn]	Specify a margin at the leading edge of sheets to ensure better printing quality at the leading edge. Note that if you choose 3 mm , it may lower the printing quality at the leading edge and affect feeding accuracy. The printed surface may be scratched, and ink may adhere to the the leading edge. If you have selected 20 mm , the test print sheet may not be printed completely.
[Return Defaults]	Choose Yes to restore Med.Detail Set. to the factory default values.	

[Job Management]

T-1-64

Setting Item			Description/Instructions	
[Job Queue Ope.]	[Job List]	(Choose a print job)	[Delete]	Delete the current job or queued jobs.
			[Priority]	Print the job first after the current print job is finished printing.
[Com. BOX Ope.]	[Job List]	(Choose a print job)	[Print]	Print jobs in the Common Box.
			[Delete]	Delete jobs in the Common Box.
	[Print Job List]		Print a list of jobs in the Common Box.	
[Psnl. BOX Ope.]	[Folder List]	(Enter a password if one has been set.)	[Job List]-[Print]	Print jobs in Personal Boxes.
			[Job List]-[Delete]	Delete jobs in Personal Boxes.
			[Print Job List]	Print a list of jobs in Personal Boxes.

[Adjust Printer]

T-1-65

Setting Item		Description/Instructions
[Auto Head Adj.]	[Standard Adj.]	Choose Yes to have the printer print and read a test pattern for the automatic adjustment of Printhead alignment relative to the printing direction.
	[Advanced Adj.]	Choose Yes to have the printer print and read a test pattern for the automatic adjustment of Printhead alignment relative to the nozzle, ink tank, and printing direction. Three sheets are required when printing on sheets.
	[Auto Print]	Choose On to have the printer automatically execute the Advanced Adj. operations after you replace the Printhead .
[Manual Head Adj]		Choose Yes to print a test pattern for adjustment of Printhead alignment relative to the printing direction. Enter the adjustment value manually based on the resulting pattern.
[Auto Band Adj.]	[Standard Adj.]	Choose Yes to have the printer print and read a test pattern for band adjustment, based on which the printer automatically adjusts the feed amount.
	[Advanced Adj.]	Choose this option when using paper other than genuine Canon paper, or paper for purposes other than checking output. Choose Yes to have the printer print and read a test pattern for band adjustment, based on which the printer automatically adjusts the feed amount. Note that this function takes more time and requires more ink than Standard Adj. Two sheets are required when printing on sheets.
[Manual Band Adj]		Choose Yes to print a test pattern for adjusting the feed amount based on the paper type. Two sheets are required when printing on sheets.
[Adj Far Ed Feed]		[Choose Yes to print a test pattern for adjusting the feed amount of the trailing edge of paper based on the paper type.
[Adjust Length]		Choose Yes to print a test pattern for adjustment relative to paper stretching or shrinkage, after which you can enter the amount of adjustment.
[Calibration]	[Auto Adjust]	Select [Yes] to print a color calibration adjustment pattern and adjust the correction value automatically. This color calibration adjustment value is extended to all print tasks.
	[Execution Log]	The date of color calibration and the paper type are displayed for visual verification.
	[Use Effect Value]	Select [Disable] and press the [OK] button not to apply the color calibration correction value to printing. The printer driver setting governs. Select [Enable] and press the [OK] button to apply the color calibration correction value to printing. It is overridden by the printer driver setting, though.
	[Return Defaults]	The color calibration correction value and the execution history are cleared.

[Interface Setup]

T-1-66

Setting Item		Description/Instructions	
[EOP Timer]		Specify the timeout period for print jobs.	
[TCP/IP]	[IP Mode]	Choose whether the printer IP address is configured automatically or a static IP address is entered manually.	
	[Protocol]	[DHCP]	Specify the protocol used to configure the IP address automatically.
		[BOOTP]	
		[RARP]	
[IP Setting]	[IP Address]	Specify the printer network information when using a static IP address.	
	[Subnet Mask]	Enter the IP address assigned to the printer, as well as the network subnet mask and default gateway.	
	[Default G/W]		
[NetWare]	[NetWare]	Specify the NetWare protocol. To apply your changes, choose Store Setting .	
	[Frame Type]	Specify the frame type to use.	
	[Print Service]	Choose the print service.	
[AppleTalk]		Specify whether to use the AppleTalk protocol. To apply your changes, choose Store Setting .	
[Ethernet Driver]	[Auto Detect]	Specify the communication method. To apply your changes, choose Store Setting . Choose On for automatic configuration of the LAN communication protocol. Choose Off to use settings values of Comm.Mode and Ethernet Type .	
	[Comm.Mode]	Choose the LAN communication method.	
	[Ethernet Type]	Choose the LAN transfer rate.	
	[Spanning Tree]	Choose whether spanning-tree packets are supported over the LAN.	
[MAC Address]		Displays the MAC address.	
[Init. Settings]		A confirmation message is displayed if you press the ▼ button. Choose [OK] to restore the network settings to the default values.	

[Maintenance]

T-1-67

Setting Item	Description/Instructions
[Maint. cart.]	When exchanging the maintenance cartridge, choose Yes and follow the instructions on the screen.
[Replace P.head]	Not displayed during a warning message that the remaining Maintenance Cartridge capacity is low. When replacing the Printhead , choose Yes and follow the instructions on the screen.
[Move Printer]	Not displayed during a warning message that the remaining Maintenance Cartridge capacity is low. When transferring the printer to another location, choose Yes and follow the instructions on the screen.
[Clean Platen]	Use this function to clean inside the Top Cover . After you select Yes , the Carriage is moved in preparation for Platen cleaning.
[Spur Cleaning]	Choose Yes to clean the spur. Use the cleaning sheet come with the printer.

Setting Item		Description/Instructions
[Warning]	[Buzzer]	Set the buzzer. Choose On for the buzzer to sound in case of errors.
	[Detect Mismatch]	Choose Warning for notification (display of a warning message) during printing if the paper type specified in the printer menu does not match the paper type in the printer driver. Choose None to continue print without notification. Choose Pause to have printing paused under these circumstances. In this case, you can continue printing by pressing the Online button.
[Keep Media Size]		Choose On to use the paper size setting as the basis for printing instead of other settings. The margin setting of the printer menu will be used instead of the margin setting of the printer driver if the latter is smaller, which may prevent text or images in the margin from being printed. Choose Off to use the printer driver settings instead. Even if the margin setting of the printer driver is smaller than that of the printer driver, text or images will not be cut off. However, this requires longer paper because the actual margin will be equal to the margin setting of the printer driver plus the margin setting of the printer menu.
[Paper Size Basis]	[Sht Selection]	If sheet size detection is activated, choose whether ISO A3+ or ANSI B Super is applied when an inbetween size is detected.
	[Sht Selection 1]	If roll size detection is activated, choose whether ISO A3 (297 mm) and 300 mm Roll is applied when an inbetween size is detected.
	[Sht Selection 2]	If roll size detection is activated, choose whether 10in. (254 mm) or JIS B4 (257 mm) is applied when an inbetween size is detected.
[TrimEdge Reload]		Keeping a roll in the printer for a long time without printing on it may leave a depression on the leading edge. When printing quality is most important, we recommend setting this option to On so that the paper edge is automatically cut before printing.
[Noz. Check Freq.]		Specify the timing for automatic checks of nozzle clogging. Choose Off to disable checking. Choose 1 page to check after each page is printed. Choose 10 pages to check once after every ten pages are printed.
[Sleep Timer]		Specify the period before the printer enters sleep mode.
[Length Unit]		Choose the unit of measurement when roll length is displayed. You can switch the unit displayed for Roll Length Set and the remaining paper amount displayed in the submenu.
[Time Zone]		Specify the time zone. Time zone options indicate a main city in this time zone and the difference from Greenwich Mean Time.
[Date Format]		Specify the date format.
[Date & Time]	[Date]	Set the current date.
	[Time]	Set the current time.
[Language]		Specify the language used on the Display Screen.
[Contrast Adj.]		Adjust the contrast of the Display Screen.
[Reset PaprSetngs]		Restores settings that you have changed with Media Configuration Tool to the factory default values.
[Erase HDD Data]	[High Speed]	The file management information of the data recorded in the hard disk drive is deleted. The time required is several seconds.
	[Secure High Spd.]	The random data in the entire hard disk drive is overwritten. The time required is about 40 minutes.
	[Secure]	The 00 or FF or the random data in the entire hard disk drive is overwritten each once. The verify check whether the data recorded in the hard disk drive is correct is executed. The time required is 20 hours.
[Output Method]	[Print]	Choose how to print.
	[Print(auto delete)]	Select [Print] to perform normal printing. Select [Print (Auto delete)], print data and remove it from the hard disk. Select [Save in mail box] to only save data to the box, without printing it.
	[Save in mail box]	
[Save beforePrint]		Select [On] to start printing data when its save is complete.
[Save in Comm.Box]		Select [Off] to print data without saving it to the common box.

[Information]

T-1-69

Setting Item		Description/Instructions	
[System Info]	[Firmware]		Displays the version of the printer and firmware.
	[Boot: ##.##]		Displays the Boot ROM version of the printer.
	[MIT]		Displays the DB format version of the MIT.
	[IP:]		Displays the printer IP address.
	[s/n:]		Displays the printer serial number.
[Error Log]	[#####.#####]		Displays the most recent error messages (up to two).
[Job Log]	(Choose from information about the latest three print jobs.)	[Document Name]	Displays the document name in the last print job.
		[User Name]	Displays the name of the user who sent the print job.
		[Page Count]	Displays the number of pages in the print job.
		[Job Status]	Displays the results of the print job processed.
		[Print Start Time]	Displays the time when the print job was started.
		[Print End Time]	Displays the time when the print job was finished.
		[Print Time]	Displays the time required to print the job.
		[Print Size]	Displays the paper size in the print job.
		[Media Type]	Displays the paper type in the print job.
		[Interface]	Displays the interface used for the print job.
[Ink Consumed]	Displays the ink density of each color in the print job.		
[HDD Information]	[HDD Space]		Displays the space available on the printer's hard disk.

5. Main Menu Settings (During Printing)

Main menu items during printing are described in the following tables.

T-1-70

Setting Item	Description/Instructions
[Head Cleaning]	Specify Printhead cleaning options. Choose Head Cleaning A if printing is faint, oddly colored, or contains foreign substances. Choose Head Cleaning B if no ink is printed at all, or if printing is not improved by Head Cleaning A.
[Fine Band Adj.]	Displayed during print jobs. Fine-tune the feed amount manually.
[Information]	Displays the information about the printer and history of print jobs.

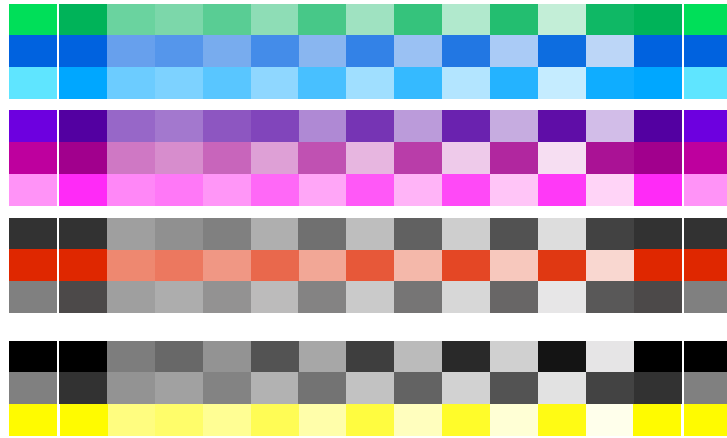
[Information]

T-1-71

Setting Item	Description/Instructions
[System Info]	[Firmware] Displays the version of the printer and firmware.
	[Boot: ##.##] Displays the Boot ROM version of the printer.
	[MIT] Displays the DB format version of the MIT.
	[IP:] Displays the printer IP address.
	[s/n:] Displays the printer serial number.
[Error Log]	[#####.#####] Displays the most recent error messages (up to two).
[Job Log]	(Choose from information about the latest three print jobs.)
	[Document Name] Displays the document name in the last print job.
	[User Name] Displays the name of the user who sent the print job.
	[Page Count] Displays the number of pages in the print job.
	[Job Status] Displays the results of the print job processed.
	[Print Start Time] Displays the time when the print job was started.
	[Print End Time] Displays the time when the print job was finished.
	[Print Time] Displays the time required to print the job.
	[Print Size] Displays the paper size in the print job.
	[Media Type] Displays the paper type in the print job.
	[Interface] Displays the interface used for the print job.
	[Ink Consumed] Displays the ink density of each color in the print job.
[HDD Information]	[HDD Space] Display the space available on the printer's hard disk.

6. Color calibration print chart

The following chart (sample) is printed when executing "Calibration".



F-1-53

1.6.7 Menu

iPF6300 / iPF6350

The printer has a Main menu which includes a menu related to maintenance such as adjustment of ink ejection position of each nozzle and head cleaning, a menu related to printing settings such as auto cutting and ink drying time, and a menu related to parameters such as a message language.

1. Menu Operation

a) Displaying menu on each tab

Press the ◀ key or ▶ key on the [Tab Selection] screen to select a tab, and press the [OK] key.
A menu associated with each tab is displayed.

Press the ▲ key or ▼ key to select a menu and press the [OK] key.
The menu is selected and menu items are displayed.

Select a menu with [+] on the left side and press the [OK] key to navigate to lower level menus.

b) Setting menu items

Press the ▲ key or ▼ key to select an item to set and press the [OK] key.
The item is checked on the left side check box to confirm that it is set.
After 2 seconds, the menu that is one level above is displayed.

c) Setting numeric value for a menu item

Proceed as follows to set a numeric value for an item such as network settings.

1. Press the ◀ key or ▶ key to move the underscore to the field you want to enter a numeric value.
2. Press the ▲ key or ▼ key to enter a numeric value.
3. Repeat steps 1 and 2 and press the [OK] key when finished.

2. Main Menu

The structure and settings of the main menu is as follows. The asterisk mark "*" is default setting.

[Paper Menu]

T-1-72

First Level	Second Level	Third Level	Fourth Level	Fifth Level
[Load Paper]	[Roll Paper]			
	[Manual Paper]			
[Eject Paper]				
[Chg. Paper Type]	[Roll Paper]	(The paper type is displayed here.)		
	[Manual Paper]	(The paper type is displayed here.)		
[Chg. Paper Size]	[Manual PaperSize]	(The paper type is displayed here.)		
	[Roll Length]*1			
[ManageRemainRoll]	[Off]*			
	[On]			
[Paper Details]	(The paper type is displayed here.)	[Head Height]	[Automatic]*	
			[Highest]	
			[High]	
			[Standard]	
			[Low]	
			[Lowest]	
			[Super Low]	
		[Skew Check Lv.]	[High Accuracy]	
			[Standard]*	
			[Loose]	
			[Off]	
		[Cutting Mode]	[Automatic]	
			[Eject]	
			[Manual]	
		[Cut Speed]	[Fast]	
			[Standard]	
			[Slow]	
		[Trim Edge First]	[Automatic]	
			[Off]	
			[On]	
		[CutDustReduct.]	[Off]	
			[On]	
		[VacuumStrngth]	[Automatic]*	
			[Strongest]	
			[Strong]	
			[Standard]	
			[Weak]	
			[Weakest]	

First Level	Second Level	Third Level	Fourth Level	Fifth Level
[Paper Details]	(The paper type is displayed here.)	[Scan Wait Time]	[Off]	
			[1 sec.]	
			[3 sec.]	
			[5 sec.]	
			[7 sec.]	
			[9 sec.]	
		[Roll DryingTime]	[Off]	
			[30 sec.]	
			[1 min.]	
			[3 min.]	
			[5 min.]	
			[10 min.]	
			[30 min.]	
		[NearEnd RollMrgn]	[3mm]	
			[20mm]	
		[NearEnd Sht Mrgn]	[3mm]	
			[20mm]	
		[Bordless Margin]	[Automatic]	
			[Fixed]	
		[Manual Feed]	[Front]	
[Top]				
		[Return Defaults]		
[Print Paper Details]				
[Keep Paper Type]	[Off]*			
	[On]			

[Ink Menu]

T-1-74

First Level	Second Level	Third Level	Fourth Level	Fifth Level
[Rep. Ink Tank]				
[Head Cleaning A]				

[Job Menu]

T-1-75

First Level	Second Level	Third Level	Fourth Level	Fifth Level
[Print Job]*2	[Job List]	(Select Print Job.)	[Delete] [Preempt Jobs]*11	
[Stored Job]*2	[Mailbox List]	(Enter a password if one has been set.)	[Job List] [Print Job List]	[Print] [Delete]
[Job Log]	(Choose from information about the latest three print jobs.)	[Document Name] [User Name] [Page Count] [Job Status] [Print Start Time] [Print End Time] [Print Time] [Print Size] [Media Type] [Interface] [Ink Consumed]	[OK] [CANCELED] [yyyy/mm/dd hh:mm:ss] [yyyy/mm/dd hh:mm:ss] [xxxsec.] [xxxxxxxxsq.mm] [USB] [Network] [HDD]*2	[xxx.xxx ml]
[Print Job Log]				
[Pause Print]	[Off]* [On]			
[HDD Information]*2	[Total capacity Box free space]			

First Level	Second Level	Third Level	Fourth Level	Fifth Level	
[Test Print]	[Nozzle Check]				
	[Status Print]				
	[Interface Print]				
	[Paper Details]				
	[Print Job Log]				
	[Menu Map]				
[Adjust Printer]	[Head Posi. Adj.]	[Auto(Standard)]			
		[Auto(Advanced)]			
		[Auto(Expansion)]*3			
		[Manual]*3			
	[Feed Priority]	[Adj. Priority]*6		[Automatic]*	
				[Print Quality]	
				[Print Length]	
		[Adj. Quality]*4*6		[Auto(GenuinePpr)]	
				[Auto(OtherPaper)]	
				[Manual]	
	[Adjust Length]*5*6		[AdjustmentPrint]	[A:High]	
				[B:Standard/Draft]	
			[Change Settings]	[A:High]	
				[B:Standard/Draft]	
	[Adj. Fine Feed]*4				
[Calibration]	[Auto Adjust]	[Auto Adjust]			
		[Calibration Log]	[Date]		
			[Paper Type]		
		[Use Adj. Value]	[Disable]		
		[Return Defaults]	[Enable]*		
[Maintenance]	[Head Cleaning]	[Head Cleaning A]			
		[Head Cleaning B]			
	[Nozzle Check]				
	[Replace P.head]	[Printhead L]			
		[Printhead R]			
	[Repl. maint cart]				
	[Head Info]	[Printhead L]			
		[Printhead R]			
[Clead Platen]					
[Interface Setup]	[EOP Timer]*12	[10 sec.]			
		[30 sec.]			
		[1 min.]			
		[2 min.]			
		[5 min.]			
		[10 min.]*			
		[30 min.]			
		[60 min.]			

T-1-77

First Level	Second Level	Third Level	Fourth Level	Fifth Level	Sixth Level	Seventh Level	
[Interface Setup]	[TCP/IP]*12	[IPv4]	[IPv4 Mode]	[Automatic]			
				[Manual]*			
			[Protocol]*7	[DHCP]	[On]		
					[Off]*		
				[BOOTP]	[On]		
					[Off]*		
			[RARP]	[On]			
				[Off]*			
			[IPv4 Settings]*13	[IP Address]	xxx.xxx.xxx.xxx		
				[Subnet Mask]	xxx.xxx.xxx.xxx		
				[Default G/W]	xxx.xxx.xxx.xxx		
			[DNS Settings]	[DNS Dync update]	[On]		
				[Off]*			
		[Pri. DNS SrvAddr]					
		[Sec. DNS Host Name]					
			[DNS Domain Name]				
	[IPv6]	[IPv6 Support]	[IPv6 Support]	[On]			
				[Off]*			
			[IPv6 StlessAdrrs]	[On]*			
				[Off]			
			[DHCPv6]	[On]			
				[Off]*			
			[DNS Settings]	[DNS Dync update]	[Statefull Addr]	[On]	
						[Off]*	
				[Stateless Addr]	[On]		
					[Off]*		
		[Pri. DNS SrvAddr]					
		[Sec. DNS SrvAddr]					
		[DNS Host Name]					
		[DNS Domain Name]					
		[NetWare]*12	[NetWare]	[NetWare]	[On]		
					[Off]*		
[Frame Type]*8	[Auto Detect]						
	[Ethernet 2]						
	[Ethernet 802.2]*						
	[Ethernet 802.3]						
	[Ethernet SNAP]						
[Print Service]*8	[BinderyPServer]						
	[RPrinter]						
	[NDSPServer]						
	[NPrinter]						

First Level	Second Level	Third Level	Fourth Level	Fifth Level	
[Interface Setup]	[AppleTalk]*12	[On]			
		[Off]*			
	[Ethernet Driver]*12	[Auto Detect]		[On]*	
				[Off]	
		[Comm.Mode]*10		[Half Duplex]*	
				[Full Duplex]	
		[Ethernet Type]*10		[10Base-T]*	
				[100Base-TX]	
			[1000Base-T]		
	[Spanning Tree]		[Not Use]*		
		[Use]			
	[MAC Address]		xxxxxxxxxxxx		
	[Interface Print]*12				
	[Return Defaults]*12				
[System Setup]	[Sleep Timer]	[5 min.]*			
		[10 min.]			
		[15 min.]			
		[20 min.]			
		[30 min.]			
		[40 min.]			
		[50 min.]			
		[60 min.]			
		[240 min.]			
	[Buzzer]	[Off]			
		[On]*			
	[Contrast Adj.]		-4,-3,-2,-1,0*,+1,+2,+3,+4		
	[Date & Time]*12	[Date]		[yyyy/mm/dd]*14	
				[Time]	[hh:mm]
	[Date Format]*12	[yyyy/mm/dd]*	[dd/mm/yyyy]		
			[mm/dd/yyyy]		
[Language]	[English]	[Japanese]			
		[Francais]			
		[Italiano]			
		[Deutsch]			
		[Espanol]			
		[Russian]			
		[Chinese] (simplified)			
		[Korean]			

T-1-79

First Level	Second Level	Third Level	Fourth Level	Fifth Level	
[System Setup]	[Time Zone]*12	[0:London(GMT)]			
		[+1:Paris,Rome]			
		[+2:Athens,Cairo]			
		[+3:Moscow]			
		[+4:Erevan,Baku]			
		[+5:Islamabad]			
		[+6:Dacca]			
		[+7:Bangkok]			
		[+8:Hong Kong]			
		[+9:Tokyo,Seoul]			
		[+10:Canberra]			
		[+11>NewCaledonia]			
		[+12:Wellington]			
		[-12:Eniwetok]			
		[-11:Midway is.]			
		[-10:Hawaii(AHST)]			
		[-9:Alaska(AKST)]			
		[-8:Oregon (PST)]			
		[-7:Arizona(MST)]			
		[-6:Texas(CST)]			
		[-5:NewYork(EST)]			
	[-4:Santiago]				
	[-3:Buenos Aires]				
	[-2:]				
	[-1:Cape Verde]				
	[Length Unit]	[meter]*	[feet/inch]		
	[Detect Mismatch]		[Pause]		
			[Warning]		
			[None]*		
			[Hold Job]*2		
	[Paper Size Basis]	[Roll Selection 1]		[ISO A3 (297mm)]*	
				[300mm Roll]	
		[Roll Selection 2]		[10inch (254mm)]*	
				[JIS B4 (257mm)]	
	[Keep Paper Size]	[Off]*	[On]		
	[TrimEdge Reload]	[Automatic]	[Off]*		
			[On]		
	[Rep.P.head Print]	[Off]	[On]*		

First Level	Second Level	Third Level	Fourth Level	Fifth Level
[System Setup]	[Nozzle Check]	[Frequency]	[Standard]*	
			[1 page]	
		[Warning]	[Off]*	
			[On]	
		[Use RemoteUI]*12	[On]*	
			[Off]	
		[Reset PaprSetngs]*12		
		[Erase HDD Data]*2*12	[High Speed]	
			[Secure High Spd.]	
			[Secure]	
		[Output Method]*2	[Print]*	
			[Print (Auto Del)]	
			[Save: Box XX]	
		[Print After Recv]*2	[Off]*	
		[On]		
	[Save: Shared Box]*2*12	[Off]		
		[On]*		
[Prep.MovePrinter]				
[Admin. Menu]*12	[Change Password]*13			
	[Init.Admin.Pswd]*13			
[Printer Info]	[Paper Info]			
	[Ink Info]			
	[Head Info]			
	[System Info]			
	[Error Log]			
	[Other Counter]			

- *1: Available only if ManageRemainRoll is On.
- *2: Displays only on models not equipped with HDD.
- *3: Available after Auto(Advanced) in Head Posi. Adj. has been used once.
- *4: Available when you have specified Feed Priority > Adj. Priority > Automatic or Print Quality.
- *5: Available when you have specified Feed Priority > Adj. Priority > Automatic or Print Length.
- *6: Displayed if a sheet is loaded in the printer.
- *7: Not shown if you have set IPv4 Mode to Manual.
- *8: Not shown if you have set NetWare to Off.
- *9: Not displayed if IPv6 Support is Off.
- *10: Not shown if you have set Auto Detect to On.
- *11: Print Anyway is displayed when a job being held is selected.
- *12: Viewing and configuration is possible for administrators, and only viewing for other users.
- *13: Viewing and configuration is possible for administrators only.
- *14: Follows the setting in Date Format.

3. Main menu during printing

The structure of the main menu during printing is as follows.

T-1-81

First Level	Second Level	Third Level	Fourth Level	Fifth Level
[Adj. Fine Feed]				
[Printer Info]	[Paper Info]			
	[Ink Info]			
	[Head Info]			
	[System Info]			
	[Error Log]			
	[Other Counter]			

4. Main Menu Settings

Main menu items are described in the following tables.

[Paper Menu]

T-1-82

Setting Item	Description/Instructions	
[Load Paper]	Select either manually loaded sheets or rolls and load the paper.	
[Eject Paper]	Choose this item before removing loaded paper.	
[Chg. Paper Type]	Change currently set paper type.	
[Chg. Paper Size]	Change currently set paper size.	
[ManageRemainRoll]	Choose On to print a barcode at the end of a roll before you remove it. The printed barcode can be used in managing the amount of roll paper left. Choose Off if you prefer not to print the barcode.	
[Paper Details] (The paper type is displayed here.)	[Head Height]	Adjust the Printhead height.
	[Skew Check Lv.]	If you print on the paper that has an irregular width, choose Loose for a higher skew detection threshold, or choose Off to disable skew detection. However, if paper is loaded askew when detection is Off, note that paper jams or Platen soiling may occur.
	[Cutting Mode]	Select whether to use standard round blade cutter or not. Select [Automatic] to cut paper after printing. Select [Manual] to print a line at the cut position after printing without cutting. Select [Eject] to prevent the printout from dropping until the ink dries after printing.
	[Cut Speed]	Choose the cutting speed. If you use adhesive paper, choosing Slow helps prevent adhesive from sticking to the cutter and keeps the cutter sharp.
	[Trim Edge First]	If a roll is loaded, the end of the paper will be cut.
	[CutDustReduct.]	Choose On to reduce the amount of debris generated when cutting film and similar media by printing a line at the cut position. This option reduces the amount of debris given off after cutting. It also helps prevent adhesive from sticking to the cutter and keeps the cutter sharp if you use adhesive paper.
	[VacuumStrngth]	Specify the level of suction that holds paper against the Platen.
	[Scan Wait Time]	Specify the time to wait for the ink to dry between each scan in bidirectional printing, in consideration of how quickly the ink dries. Note that printing will take longer if you specify a wait time.
	[Roll DryingTime]	Specify the time to wait for the ink to dry for each sheet.
	[NearEnd RollMrgn]	Specify the minimum margin at the leading edge of roll paper to ensure better printing quality at the leading edge. Note that if you choose 3mm, it may lower the printing quality at the leading edge and affect feeding accuracy. The printed surface may be scratched, and ink may adhere to the leading edge. It may also cause the Platen to become soiled.
	[NearEnd Sht Mrgn]	Specify a margin at the leading edge of sheets to ensure better printing quality at the leading edge. Note that if you choose 3mm, it may lower the printing quality at the leading edge and affect feeding accuracy. The printed surface may be scratched, and ink may adhere to the leading edge.
	[Bordless Margin]	Adjust the margin during borderless printing. Choose Automatic to have the printer automatically detect the paper width and configure the margin settings for borderless printing. If margins are mistakenly created when Automatic is selected, choose Fixed. In this case, the paper width is not detected automatically, and the document is printed without borders, using the margin settings required by the printer.
	[Manual Feed]	Select the Paper Feed Slot to use when printing on sheets. Normally, select Top. When printing on heavyweight paper such as POP Board, select Front.
[Return Defaults]	Choose OK to restore Paper Details to the factory default values.	
[Print Paper Detail]	Print the paper settings set with [Paper Details].	
[Keep Paper Type]	Select [On] to continue using the same type of paper.	

[Ink Menu]

T-1-83

Setting Item	Description/Instructions
[Rep. Ink Tank]	When replacing the Ink Tank, choose Yes and follow the instructions on the screen.
[Head Cleaning A]	Specify Printhead cleaning options. Execute Head Cleaning A if printing is faint, oddly colored, or contains foreign substances.

[Job Menu]

T-1-84

Setting Item			Description/Instructions
[Print Job]	[Job List]	(Select Print Job.)	[Delete] Delete the current job or queued jobs.
			[Preempt Jobs] Print the job first after the current print job is finished printing.
[Stored Job]	[Mailbox List]	(Enter a password if one has been set.)	[Job List]-[Print] Prints a saved job.
			[Job List]-[Delete] Deletes a saved job.
			[Print Job List] Prints a list of saved jobs.
[Job Log]	(Choose from information about the latest three print jobs.)	[Document Name]	Indicates the document name of the selected print job.
		[User Name]	Indicates the name of the user who sent the print job.
		[Page Count]	Indicates the number of pages in the job.
		[Job Status]	Indicates the printing results.
		[Print Start Time]	Indicates when the print job was started.
		[Print End Time]	Indicates when the print job was finished.
		[Print Time]	Indicates the time required to print the job.
		[Print Size]	Indicates the paper size in the print job.
		[Media Type]	Indicates the type of paper in the print job.
		[Interface]	Indicates the interface used for the print job.
		[Ink Consumed]	Indicates a rough estimate of how much ink was consumed per job.
[Print Job Log]			Print the print job information such as paper type, size, and ink consumption. Ink consumption is the approximate amount of ink used to print one sheet.
[Pause Print]			Select [On] to stop printing.
[HDD Information]			Indicates the total hard disk capacity and the mail box free space.

[Set./Adj. Menu]

Setting Item		Description/Instructions		
[Test Print]	[Nozzle Check]	Print a nozzle check pattern.		
	[Status Print]	Print the printer information.		
	[Interface Print]	Print the interface settings.		
	[Paper Details]	Prints the paper settings set with [Paper Details].		
	[Print Job Log]	Print print job information such as paper type, size, and ink consumption. Ink consumption is the approximate amount of ink used to print one sheet.		
	[Menu Map]	Print the menu list.		
[Adjust Printer]	[Head Posi. Adj.]	[Auto(Standard)]	The printer prints and reads a test pattern for automatic adjustment of Printhead alignment relative to the printing direction.	
		[Auto(Advanced)]	The printer prints and reads a test pattern for automatic adjustment of Printhead alignment relative to the printing direction and spacing between nozzles and colors. Adjustment is performed at a higher level of precision than Auto(Advanced). Try adjustment in this mode if "Auto(Standard)" does not improve printing.	
		[Auto(Expansion)]	The printer prints and reads a test pattern for automatic adjustment of Printhead alignment relative to the printing direction and spacing between nozzles and colors. Adjustment is performed at a higher level of precision than Auto(Advanced). Try adjustment in this mode if vertical lines are warped or colors are out of alignment when the printer driver option "High-Precision Printing" or "Priority on dot placement accuracy" is selected.	
		[Manual]	Print a test pattern for adjustment of Printhead alignment relative to the printing direction. Enter the adjustment value manually based on the resulting pattern.	
	[Feed Priority]	[Adj. Priority]	[Automatic]	Set the priority feed precision. Normally select [Automatic]. Select [Print Quality] to print at high quality. Select [Print Quality] to reduce horizontal streaks. Select [Print Length] to accurately control the feed amount. However, selecting [Print Length] may cause colors to become slightly uneven in the carriage scan direction.
			[Print Quality]	
			[Print Length]	
	[Adj. Quality]	[Auto(GenuinePpr)]	Set when using paper described in the paper reference guide. A pattern to adjust the paper feed amount is printed, and the feed amount is automatically adjusted from the printed result.	
		[Auto(OtherPaper)]	Set when using paper not described in the paper reference guide. A pattern to adjust the paper feed amount is printed, and the feed amount is automatically adjusted from the printed result. This takes longer than [Auto (GenuinePpr)] to print and consumes more ink.	
		[Manual]	Select for paper that cannot be adjusted by [Auto(GenuinePpr)] or [Auto(OtherPaper)], such as highly transparent paper. Print a pattern to adjust the paper feed amount according to the type of paper.	
	[Adjust Length]	[AdjustmentPrint]-[A:High]/[B:Standard/Draft]	Print a test pattern for adjustment relative to paper stretching or shrinkage, after which you can enter the amount of adjustment.	
		[Change Settings]-[A:High]/[B:Standard/Draft]	Displayed when [Print Length] is selected as [Adj. Priority] for [Feed Priority]. Adjust the expansion rate of the currently loaded paper. Enter the result adjusted with [AdjustmentPrint] or the difference with your own measurement in %. Increase the adjustment value to increase the feed amount for paper that tends to expand, and reduce it for paper that tends to shrink.	
	[Adj. Fine Feed]		Displayed when you have selected Feed Priority >Adj. Priority >Automatic or Print Quality. Fine-tune the feed amount manually during printing.	
	[Adj Far Ed Feed]		Choose Yes to adjust the feed amount for the trailing edge.	
	[Calibration]	[Auto Adjust]	Choose Yes for automatic adjustment of the adjustment value after a test pattern for color calibration is printed. The new color calibration adjustment value is applied in all print jobs.	
[Calibration Log]		Check the date when color calibration was executed, as well as the type of paper used, as shown on the Display Screen.		
[Use Adj. Value]		Choose Disabled >OK if you prefer not to apply the color calibration adjustment value in print jobs. The printer driver settings will be used instead. Choose Enabled >OK to apply the color calibration adjustment value in print jobs. However, printer driver settings are given priority.		
[Return Defaults]		Clear the color calibration adjustment value and the execution log.		
[Maintenance]	[Head Cleaning]	Specify Printhead cleaning options. Choose Head Cleaning A if printing is faint, oddly colored, or contains foreign substances. Choose Head Cleaning B if no ink is printed at all, or if printing is not improved by Head Cleaning A.		
	[Nozzle Check]	Print a nozzle check pattern.		
	[Replace P.head]	Not displayed during a warning message that the remaining Maintenance Cartridge capacity is low. When replacing the Printhead, choose Yes and follow the instructions on the screen.		
	[Repl. maint cart]	When exchanging the maintenance cartridge, choose Yes and follow the instructions on the screen.		
	[Head Info]	Indicates information about the printhead.		
	[Clean Platen]	Move the Carriage in preparation for cleaning the Platen.		

Setting Item			Description/Instructions		
[Interface Setup]	[EOP Timer]		Specify the timeout period before cancellation of print jobs that cannot be received by the printer.		
	[TCP/IP]	[IPv4]	[IPv4 Mode]	Choose whether the printer IP address is configured automatically or a static IP address is entered manually.	
			[Protocol]	[DHCP]/ [BOOTP]/ [RARP]	Specify the protocol used to configure the IP address automatically.
			[IPv4 Settings]	[IP Address]/ [Subnet Mask]/ [Default G/W]	Specify the printer network information when using a static IP address. Enter the IP address assigned to the printer, as well as the network subnet mask and default gateway.
			[DNS Settings]	[DNS Dync update]	Specify whether DNS server registration is updated automatically.
				[Pri. DNS SrvAddr]/[Sec. DNS SrvAddr]	Specify the DNS server address.
				[DNS Host Name]	Specify the DNS host name.
				[DNS Domain Name]	Specify the DNS domain name.
		[IPv6]	[IPv6 Support]	Set whether to support IPv6 connection.	
			[IPv6 StatelessAddrs]	Set whether to use IPv6 stateless address.	
			[DHCPv6]	Set whether to use DHCPv6 setting.	
	[DNS Settings]		[DNS Dync update]- [Statefull Addr]/ [Stateless Addr]	Specify whether DNS server registration is updated automatically.	
			[Pri. DNS SrvAddr]/[Sec. DNS SrvAddr]	Specify the DNS server address.	
			[DNS Host Name]	Specify the DNS host name.	
			[DNS Domain Name]	Specify the DNS domain name.	
	[NetWare]	[NetWare]		Specify the NetWare protocol. To apply your changes, choose Register Setting.	
		[Frame Type]		Specify the frame type to use.	
		[Print Service]		Choose the print service.	
	[AppleTalk]			Specify whether to use the AppleTalk protocol. To apply your changes, choose Register Setting.	
	[Ethernet Driver]*12	[Auto Detect]		Specify the communication method. To apply your changes, choose Register Setting. Choose On for automatic configuration of the LAN communication protocol. Choose Off to use settings values of Comm.Mode and Ethernet Type.	
		[Comm.Mode]		Choose the LAN communication method.	
		[Ethernet Type]		Choose the LAN transfer rate.	
		[Spanning Tree]		Choose whether spanning-tree packets are supported over the LAN.	
[MAC Address]		Displays the MAC address.			
[Interface Print]			Print the interface settings.		
[Return Defaults]			Select [OK] to return the [Interface Setup] settings to factory default.		

Setting Item		Description/Instructions	
[System Setup]	[Sleep Timer]	Specify the period before the printer enters Sleep mode.	
	[Buzzer]	Set the buzzer. Choose On for the buzzer to sound once for warnings and three times for errors.	
	[Contrast Adj.]	Adjust the Display Screen contrast level.	
	[Date & Time]	[Date]	Set the current date.
		[Time]	Set the current time. This can be set only when [Date] is set.
	[Date Format]	Specify the date format.	
	[Language]	Specify the language used on the Display Screen.	
	[Time Zone]	Specify the time zone. Time zone options indicate a main city in this time zone and the difference from Greenwich Mean Time.	
	[Length Unit]	Choose the unit of measurement when roll length is displayed. You can switch the unit displayed for the remaining paper amount.	
	[Detect Mismatch]	Set the printing behavior when the paper type and size set with the printer menu does not match the paper type and size set with the printer driver. Select [Pause] to pause printing. Select [Warning] to print a warning and continue printing. Select [None] to continue printing without displaying a warning. Select [Hold Job] to queue the job with different paper type and size in a job queue on the hard disk.	
	[Paper Size Basis]	[Roll Selection 1]	When the size of roll paper is detected, select which roll width to use if the roll width is between [ISO A3 (297mm)] and [300mm Roll].
		[Roll Selection 2]	When the size of roll paper is detected, select which roll width to use if the roll width is between [10inch (254mm)] and [JIS B4 (257mm)].
	[Keep Paper Size]	Select [On] to give priority to paper size. If the margin set with the printer driver is less than the margin set with the printer menu, the margin set with the printer menu has priority and text and images extending beyond the margins are truncated. Select [Off] to give priority to margin settings. If the margins set with the printer driver and the margins set with the printer menu are different, the larger settings are used for printing.	
	[TrimEdge Reload]	Select whether cut the leading edge of the paper when the paper at the standby position has loaded. Cut it when the roller trace at the standby position attract attention. Choose On to cut it everytime when the paper at the standby position has loaded. Choose Automatic to cut it when the paper at the standby position during two days or more has loaded.	
	[Rep.P.head Print]	Select [On] to automatically perform [Adjust Detail] after replacing the Printhead.	
[Nozzle Check]	Set with [Frequency] the timing to check for nozzle clogging after printing. Select [Standard] to adjust the checking timing according to the nozzle usage. Select [1 page] to check after each page. Select [On] for [Warning] to display a warning when the print head nozzle is clogged while printing.		
[Use RemoteUI]	Select [Off] to disable access from RemoteUI and enable setting only from the operation panel.		
[Reset PaprSetngs]	Restores settings that you have changed with Media Configuration Tool to the factory default values.		

Setting Item		Description/Instructions	
[System Setup]	[Erase HDD Data]	[High Speed]	Delete the file management information of the saved data in the HDD.
		[Secure High Spd.]	Overwrite the random data in the whole of the hard disk drive.
		[Secure]	Overwrite 00 and FF and random data in the whole of the hard disk drive once at a time. Execute the verify check whether the data has written correctly to the hard disk drive.
	[Output Method]	[Print]	Select the output method of jobs sent from software other than the printer driver. This can be set from the printer if you are using a printer driver.
		[Print (Auto Del)]	Select [Print] to print normally. Select [Print (AutoDel)] to print and delete the data in hard disk.
		[Save: Box XX]	Select [Save: Box XX] to save to box without printing.
[Print After Recv]	Setting of jobs sent from software other than the printer driver. This can be set from the printer if you are using a printer driver. Select [On] to print after saving.		
[Save: Shared Box]	Select [Off] to print without saving to a common box.		
[Prep.MovePrinter]		Select when moving the printer. Follow the instruction on the screen and perform the necessary process. This is not displayed when displaying a warning message about the amount remaining maintenance cartridge.	
[Admin. Menu]	[Change Password]	Set a password to restrict displaying/setting of menus as follows. Allowed value is from 0 to 9999999. - Allow only administrator to display/set [IPv4] [Change Password] [Init.Admin.Pswd] - Allow administrator to display/set and non-administrator to display only [Interface Setup](exclude [IPv4]) [Date & Time] [Date Format] [Time Zone] [Use RemoteUI] [Reset PaprSetngs] [Save: Shared Box]	
	[Init.Admin.Pswd]	Press [OK] to return the [Administrator Menu] password to factory default.	
[Printer Info]	[Paper Info]	Indicates the current paper size, type, and related printer settings.	
	[Ink Info]	Indicates ink levels and maintenance cartridge capacity.	
	[Head Info]	Indicates information about the printhead.	
	[System Info]	Indicates the firmware version, serial number, and interface information.	
	[Error Log]	Indicates the most recent error messages (up to five).	
	[Other Counter]	Indicates the total printing volume of the printer.	

1.6.8 Menu

iPF6300S

The printer has a Main menu which includes a menu related to maintenance such as adjustment of ink ejection position of each nozzle and head cleaning, a menu related to printing settings such as auto cutting and ink drying time, and a menu related to parameters such as a message language.

1. Menu Operation

a) Displaying menu on each tab

Press the ◀ key or ▶ key on the [Tab Selection] screen to select a tab, and press the [OK] key.
A menu associated with each tab is displayed.

Press the ▲ key or ▼ key to select a menu and press the [OK] key.
The menu is selected and menu items are displayed.

Select a menu with [+] on the left side and press the [OK] key to navigate to lower level menus.

b) Setting menu items

Press the ▲ key or ▼ key to select an item to set and press the [OK] key.
The item is checked on the left side check box to confirm that it is set.
After 2 seconds, the menu that is one level above is displayed.

c) Setting numeric value for a menu item

Proceed as follows to set a numeric value for an item such as network settings.

1. Press the ◀ key or ▶ key to move the underscore to the field you want to enter a numeric value.
2. Press the ▲ key or ▼ key to enter a numeric value.
3. Repeat steps 1 and 2 and press the [OK] key when finished.

2. Main Menu

The structure and settings of the main menu is as follows. The asterisk mark "*" is default setting.

[Paper Menu]

T-1-89

First Level	Second Level	Third Level	Fourth Level	Fifth Level
[Load Paper]	[Roll Paper]			
	[Manual Paper]			
[Eject Paper]				
[Chg. Paper Type]	[Roll Paper]	(The paper type is displayed here.)		
	[Manual Paper]	(The paper type is displayed here.)		
[Chg. Paper Size]	[Manual PaperSize]	(The paper type is displayed here.)		
		[CustomPaperSize]	(Set the paper length and width.)	
	[Roll Length]*1	(Set the paper length.)		
[ManageRemainRoll]	[Off]*			
	[On]			
[Paper Details]	(The paper type is displayed here.)	[Head Height]	[Automatic]*	
			[Highest]	
			[High]	
			[Standard]	
			[Low]	
			[Lowest]	
			[Super Low]	
		[Skew Check Lv.]	[High Accuracy]	
			[Standard]*	
			[Loose]	
			[Off]	
		[Cutting Mode]	[Automatic]	
			[Eject]	
			[Manual]	
		[Cut Speed]	[Fast]	
			[Standard]	
			[Slow]	
		[Trim Edge First]	[Automatic]	
			[Off]	
			[On]	
		[CutDustReduct.]	[Off]	
			[On]	
		[VacuumStrngth]	[Automatic]*	
			[Strongest]	
			[Strong]	
			[Standard]	
			[Weak]	
			[Weakest]	

First Level	Second Level	Third Level	Fourth Level	Fifth Level
[Paper Details]	(The paper type is displayed here.)	[Scan Wait Time]	[Dry time]	[Off]*
				[1 sec.]
				[3 sec.]
				[5 sec.]
				[7 sec.]
				[9 sec.]
			[Area]*15	[Entire area]*
				[Leading edge]
			[Roll DryingTime]	[Off]
		[30 sec.]		
		[1 min.]		
		[3 min.]		
		[5 min.]		
		[10 min.]		
		[30 min.]		
		[60 min.]		
		[NearEnd RollMrgn]	[3mm]	
			[20mm]	
		[NearEnd Sht Mrgn]	[3mm]	
[20mm]				
[Bordless Margin]	[Automatic]			
	[Fixed]			
[Manual Feed]	[Front]			
	[Top]			
[Return Defaults]				
[Print Paper Details]				
[Keep Paper Type]	[Off]*			
	[On]			

[Ink Menu]

T-1-91

First Level	Second Level	Third Level	Fourth Level	Fifth Level
[Rep. Ink Tank]				
[Head Cleaning A]				

[Job Menu]

T-1-92

First Level	Second Level	Third Level	Fourth Level	Fifth Level
[Print Job]*2	[Job List]	(Select Print Job.)	[Delete] [Preempt Jobs]*11	
[Stored Job]*2	[Mailbox List]	(Enter a password if one has been set.)	[Job List] [Print Job List]	[Print] [Delete]
[Job Log]	(Choose from information about the latest three print jobs.)	[Document Name] [User Name] [Page Count] [Job Status] [Print Start Time] [Print End Time] [Print Time] [Output Img. Size] [Media Type] [Paper Consumed] [Paper Length] [Paper Width] [Interface] [Ink Consumed] [Print Settings] [Head Height] [Temp./Humidity] [Adjustment reg.]	[OK] [CANCELED] [yyyy/mm/dd hh:mm:ss] [yyyy/mm/dd hh:mm:ss] [xxxsec.] [xxxxxxxxsq.mm] [USB] [Network] [HDD]*2	[xxx.xxx ml]
[Print Job Log]				
[Pause Print]	[Off]* [On]			
[HDD Information]*2	[Total capacity Box free space]			

First Level	Second Level	Third Level	Fourth Level	Fifth Level	
[Test Print]	[Nozzle Check]				
	[Status Print]				
	[Interface Print]				
	[Paper Details]				
	[Print Job Log]				
	[Menu Map]				
[Adjust Printer]	[Head Posi. Adj.]	[Auto(Standard)]			
		[Auto(Advanced)]			
		[Auto(Expansion)]*3			
		[Manual]*3			
	[Feed Priority]	[Adj. Priority]*6		[Automatic]*	
				[Print Quality]	
				[Print Length]	
		[Adj. Quality]*4*6		[Auto(GenuinePpr)]	
				[Auto(OtherPaper)]	
				[Manual]	
	[Adjust Length]*5*6		[AdjustmentPrint]	[A:High]	
				[B:Standard/Draft]	
			[Change Settings]	[A:High]	
				[B:Standard/Draft]	
	[Adj Far Ed Feed]				
	[Calibration]	[Auto Adjust]	[Calibration Log]	[Date]	
				[Paper Type]	
			[Adjustment Type]		
			[Disable]		
[Use Adj. Value]		[Enable]*			
[Set Exec. Guide]		[Off]			
		[On]			
	[Return Defaults]				
[Maintenance]	[Head Cleaning]	[Head Cleaning A]			
		[Head Cleaning B]			
	[Nozzle Check]				
	[Replace P.head]	[Printhead L]			
		[Printhead R]			
	[Repl. maint cart]				
	[Head Info]	[Printhead L]			
[Printhead R]					
[Clead Platen]					
[Interface Setup]	[EOP Timer]*12	[10 sec.]			
		[30 sec.]			
		[1 min.]			
		[2 min.]			
		[5 min.]			
		[10 min.]*			
		[30 min.]			
		[60 min.]			

T-1-94

First Level	Second Level	Third Level	Fourth Level	Fifth Level	Sixth Level	Seventh Level	
[Interface Setup]	[TCP/IP]*12	[IPv4]	[IPv4 Mode]	[Automatic]			
				[Manual]*			
			[Protocol]*7	[DHCP]	[On]		
					[Off]*		
				[BOOTP]	[On]		
					[Off]*		
			[RARP]	[On]			
				[Off]*			
			[IPv4 Settings]*13	[IP Address]	xxx.xxx.xxx.xxx		
				[Subnet Mask]	xxx.xxx.xxx.xxx		
				[Default G/W]	xxx.xxx.xxx.xxx		
			[DNS Settings]	[DNS Dync update]	[On]		
				[Off]*			
		[Pri. DNS SrvAddr]					
		[Sec. DNS Host Name]					
			[DNS Domain Name]				
		[IPv6]	[IPv6 Support]	[IPv6 Support]	[On]		
					[Off]*		
	[IPv6 StlessAdrrs]			[On]*			
				[Off]			
	[DHCPv6]			[On]			
				[Off]*			
	[DNS Settings]		[DNS Dync update]	[Statefull Addr]	[On]		
					[Off]*		
				[Stateless Addr]	[On]		
					[Off]*		
				[Pri. DNS SrvAddr]			
				[Sec. DNS SrvAddr]			
		[DNS Host Name]					
		[DNS Domain Name]					
	[NetWare]*12	[NetWare]	[NetWare]	[On]			
				[Off]*			
			[Frame Type]*8	[Auto Detect]			
[Ethernet 2]							
[Ethernet 802.2]*							
[Ethernet 802.3]							
[Ethernet SNAP]							
[Print Service]*8		[BinderyPServer]					
		[RPrinter]					
		[NDSPServer]					
		[NPrinter]					

First Level	Second Level	Third Level	Fourth Level	Fifth Level	
[Interface Setup]	[AppleTalk]*12	[On]			
		[Off]*			
	[Ethernet Driver]*12	[Auto Detect]		[On]*	
				[Off]	
		[Comm.Mode]*10		[Half Duplex]*	
				[Full Duplex]	
		[Ethernet Type]*10		[10Base-T]*	
				[100Base-TX]	
			[1000Base-T]		
	[Spanning Tree]		[Not Use]*		
		[Use]			
	[MAC Address]		xxxxxxxxxxxx		
	[Interface Print]*12				
	[Return Defaults]*12				
[System Setup]	[Sleep Timer]*16	[5 min.]*			
		[10 min.]			
		[15 min.]			
		[20 min.]			
		[30 min.]			
		[40 min.]			
		[50 min.]			
		[60 min.]			
		[240 min.]			
	[Buzzer]	[Off]			
		[On]*			
	[Contrast Adj.]		-4,-3,-2,-1,0*,+1,+2,+3,+4		
	[Date & Time]*12	[Date]		[yyyy/mm/dd]*14	
				[Time]	[hh:mm]
	[Date Format]*12		[yyyy/mm/dd]*		
			[dd/mm/yyyy]		
			[mm/dd/yyyy]		
[Language]		[English]			
		[Japanese]			
		[Francais]			
		[Italiano]			
		[Deutsch]			
		[Espanol]			
		[Russian]			
		[Chinese] (simplified)			
[Korean]					

T-1-96

First Level	Second Level	Third Level	Fourth Level	Fifth Level
[System Setup]	[Time Zone]*12	[0:London(GMT)]		
		[+1:Paris,Rome]		
		[+2:Athens,Cairo]		
		[+3:Moscow]		
		[+4:Eerevan,Baku]		
		[+5:Islamabad]		
		[+6:Dacca]		
		[+7:Bangkok]		
		[+8:Hong Kong]		
		[+9:Tokyo,Seoul]		
		[+10:Canberra]		
		[+11NewCaledonia]		
		[+12:Wellington]		
		[-12:Eniwetok]		
		[-11:Midway is.]		
		[-10Hawaii(AHST)]		
		[-9:Alaska(AKST)]		
		[-8:Oregon (PST)]		
		[-7:Arizona(MST)]		
		[-6:Texas(CST)]		
		[-5:NewYork(EST)]		
	[-4:Santiago]			
	[-3:Buenos Aires]			
	[-2:]			
	[-1:Cape Verde]			
	[Length Unit]	[meter]*		
		[feet/inch]		
	[Detect Mismatch]	[Pause]		
		[Warning]		
		[None]*		
		[Hold Job]*2		
	[Paper Size Basis]	[Roll Selection 1]		[ISO A3 (297mm)]*
				[300mm Roll]
		[Roll Selection 2]		[10inch (254mm)]*
				[JIS B4 (257mm)]
	[Keep Paper Size]	[Off]*		
		[On]		
	[TrimEdge Reload]	[Automatic]		
		[Off]*		
		[On]		
	[Rep.P.head Print]	[Off]		
		[On]*		

First Level	Second Level	Third Level	Fourth Level	Fifth Level
[System Setup]	[Nozzle Check]	[Frequency]	[Standard]*	
			[1 page]	
		[Warning]	[Off]*	
			[On]	
		[Use RemoteUI]*12	[On]*	
			[Off]	
		[Reset PaprSetngs]*12		
		[Erase HDD Data]*2*12	[High Speed]	
			[Secure High Spd.]	
			[Secure]	
		[Output Method]*2	[Print]*	
			[Print (Auto Del)]	
			[Save: Box XX]	
		[Print After Recv]*2	[Off]*	
			[On]	
		[Common Box Set.]*2*12	[Print]	
	[Print (AutoDel)]			
	[Show Job Log]	[Off]		
		[On]		
[Prep.MovePrinter]				
[Admin. Menu]*12	[Change Password]*13			
	[Init.Admin.Pswd]*13			
[Printer Info]	[Paper Info]			
	[Ink Info]			
	[Head Info]			
	[System Info]			
	[Error Log]			
	[Other Counter]			

- *1: Available only if ManageRemainRoll is On.
- *2: Displays only on models not equipped with HDD.
- *3: Available after Auto(Advanced) in Head Posi. Adj. has been used once.
- *4: Available when you have specified Feed Priority > Adj. Priority > Automatic or Print Quality.
- *5: Available when you have specified Feed Priority > Adj. Priority > Automatic or Print Length.
- *6: Displayed if a sheet is loaded in the printer.
- *7: Not shown if you have set IPv4 Mode to Manual.
- *8: Not shown if you have set NetWare to Off.
- *9: Not displayed if IPv6 Support is Off.
- *10: Not shown if you have set Auto Detect to On.
- *11: Print Anyway is displayed when a job being held is selected.
- *12: Viewing and configuration is possible for administrators, and only viewing for other users.
- *13: Viewing and configuration is possible for administrators only.
- *14: Follows the setting in Date Format.
- *15: Leading edge is not available as a setting option in the Paper Detailed Settings dialog box of the printer driver.
- *16: Default setting for the time to enter the power save mode/sleep mode is recommended.

3. Main menu during printing

The structure of the main menu during printing is as follows.

T-1-98

First Level	Second Level	Third Level	Fourth Level	Fifth Level
[Adj. Fine Feed]				
[Printer Info]	[Paper Info]			
	[Ink Info]			
	[Head Info]			
	[System Info]			
	[Error Log]			
	[Other Counter]			

4. Main Menu Settings

Main menu items are described in the following tables.

[Paper Menu]

T-1-99

Setting Item	Description/Instructions	
[Load Paper]	Select either manually loaded sheets or rolls and load the paper.	
[Eject Paper]	Choose this item before removing loaded paper.	
[Chg. Paper Type]	Change currently set paper type.	
[Chg. Paper Size]	Change currently set paper size.	
[ManageRemainRoll]	Choose On to print a barcode at the end of a roll before you remove it. The printed barcode can be used in managing the amount of roll paper left. ChooseOff if you prefer not to print the barcode.	
[Paper Details] (The paper type is displayed here.)	[Head Height]	Adjust the Printhead height.
	[Skew Check Lv.]	If you print on the paper that has an irregular width, choose Loose for a higher skew detection threshold, or choose Off to disable skew detection. However, if paper is loaded askew when detection is Off, note that paper jams or Platen soiling may occur.
	[Cutting Mode]	Select whether to use standard round blade cutter or not. Select [Automatic] to cut paper after printing. Select [Manual] to print a line at the cut position after printing without cutting. Select [Eject] to prevent the printout from dropping until the ink dries after printing.
	[Cut Speed]	Choose the cutting speed. If you use adhesive paper, choosing Slow helps prevent adhesive from sticking to the cutter and keeps the cutter sharp.
	[Trim Edge First]	If a roll is loaded, the end of the paper will be cut.
	[CutDustReduct.]	Choose On to reduce the amount of debris generated when cutting film and similar media by printing a line at the cut position. This option reduces the amount of debris given off after cutting. It also helps prevent adhesive from sticking to the cutter and keeps the cutter sharp if you use adhesive paper.
	[VacuumStrngth]	Specify the level of suction that holds paper against the Platen.
	[Scan Wait Time]	Specify the time to wait for the ink to dry between each scan in bidirectional printing, in consideration of how quickly the ink dries. Note that printing will take longer if you specify a wait time.
	[Roll DryingTime]	Specify the time to wait for the ink to dry for each sheet.
	[NearEnd RollMrgn]	Specify the minimum margin at the leading edge of roll paper to ensure better printing quality at the leading edge. Note that if you choose 3mm, it may lower the printing quality at the leading edge and affect feeding accuracy. The printed surface may be scratched, and ink may adhere to the leading edge. It may also cause the Platen to become soiled.
	[NearEnd Sht Mrgn]	Specify a margin at the leading edge of sheets to ensure better printing quality at the leading edge. Note that if you choose 3mm, it may lower the printing quality at the leading edge and affect feeding accuracy. The printed surface may be scratched, and ink may adhere to the leading edge.
	[Bordless Margin]	Adjust the margin during borderless printing. Choose Automatic to have the printer automatically detect the paper width and configure the margin settings for borderless printing. If margins are mistakenly created when Automatic is selected, choose Fixed. In this case, the paper width is not detected automatically, and the document is printed without borders, using the margin settings required by the printer.
	[Manual Feed]	Select the Paper Feed Slot to use when printing on sheets. Normally, select Top. When printing on heavyweight paper such as POP Board, select Front.
[Return Defaults]	Choose OK to restore Paper Details to the factory default values.	
[Print Paper Detail]	Print the paper settings set with [Paper Details].	
[Keep Paper Type]	Select [On] to continue using the same type of paper.	

[Ink Menu]

T-1-100

Setting Item	Description/Instructions
[Rep. Ink Tank]	When replacing the Ink Tank, choose Yes and follow the instructions on the screen.
[Head Cleaning A]	Specify Printhead cleaning options. Execute Head Cleaning A if printing is faint, oddly colored, or contains foreign substances.

[Job Menu]

T-1-101

Setting Item			Description/Instructions	
[Print Job]	[Job List]	(Select Print Job.)	[Delete]	Delete the current job or queued jobs.
			[Preempt Jobs]	Print the job first after the current print job is finished printing.
[Stored Job]	[Mailbox List]	(Enter a password if one has been set.)	[Job List]- [Print]	Prints a saved job.
			[Job List]- [Delete]	Deletes a saved job.
			[Print Job List]	Prints a list of saved jobs.
[Job Log]	(Choose from information about the latest three print jobs.)	[Document Name]		Indicates the document name of the selected print job.
		[User Name]		Indicates the name of the user who sent the print job.
		[Page Count]		Indicates the number of pages in the job.
		[Job Status]		Indicates the printing results.
		[Print Start Time]		Indicates when the print job was started.
		[Print End Time]		Indicates when the print job was finished.
		[Print Time]		Indicates the time required to print the job.
		[Output Img. Size]		Indicates the image size in the print job.
		[Media Type]		Indicates the type of paper in the print job.
		[Paper Consumed]		Indicates the consumption of paper.
		[Paper Length]		Indicates the length of paper.
		[Paper Width]		Indicates the width of paper.
		[Interface]		Indicates the interface used for the print job.
		[Ink Consumed]		Indicates a rough estimate of how much ink was consumed per job.
		[Print Settings]		A counter for maintenance purposes. Indicates job print settings.
		[Head Height]		A counter for maintenance purposes. Indicates the head height when jobs were printed.
		[Temp./Humidity]		A counter for maintenance purposes. Indicates the temperature and humidity when jobs were printed.
		[Adjustment Reg.]		A counter for maintenance purposes. Indicates adjustment conditions applied to jobs.
[Print Job Log]				Print the print job information such as paper type, size, and ink consumption. Ink consumption is the approximate amount of ink used to print one sheet.
[Pause Print]				Select [On] to stop printing.
[HDD Information]				Indicates the total hard disk capacity and the mail box free space.

[Set./Adj. Menu]

Setting Item		Description/Instructions		
[Test Print]	[Nozzle Check]	Print a nozzle check pattern.		
	[Status Print]	Print the printer information.		
	[Interface Print]	Print the interface settings.		
	[Paper Details]	Prints the paper settings set with [Paper Details].		
	[Print Job Log]	Print print job information such as paper type, size, and ink consumption. Ink consumption is the approximate amount of ink used to print one sheet.		
	[Menu Map]	Print the menu list.		
[Adjust Printer]	[Head Posi. Adj.]	[Auto(Standard)]	The printer prints and reads a test pattern for automatic adjustment of Printhead alignment relative to the printing direction.	
		[Auto(Advanced)]	The printer prints and reads a test pattern for automatic adjustment of Printhead alignment relative to the printing direction and spacing between nozzles and colors. Adjustment is performed at a higher level of precision than Auto(Advanced). Try adjustment in this mode if "Auto(Standard)" does not improve printing.	
		[Auto(Expansion)]	The printer prints and reads a test pattern for automatic adjustment of Printhead alignment relative to the printing direction and spacing between nozzles and colors. Adjustment is performed at a higher level of precision than Auto(Advanced). Try adjustment in this mode if vertical lines are warped or colors are out of alignment when the printer driver option "High-Precision Printing" or "Priority on dot placement accuracy" is selected.	
		[Manual]	Print a test pattern for adjustment of Printhead alignment relative to the printing direction. Enter the adjustment value manually based on the resulting pattern.	
	[Feed Priority]	[Adj. Priority]	[Automatic]	Set the priority feed precision. Normally select [Automatic]. Select [Print Quality] to print at high quality. Select [Print Quality] to reduce horizontal streaks. Select [Print Length] to accurately control the feed amount. However, selecting [Print Length] may cause colors to become slightly uneven in the carriage scan direction.
			[Print Quality]	
			[Print Length]	
		[Adj. Quality]	[Auto(GenuinePpr)]	Set when using paper described in the paper reference guide. A pattern to adjust the paper feed amount is printed, and the feed amount is automatically adjusted from the printed result.
			[Auto(OtherPaper)]	Set when using paper not described in the paper reference guide. A pattern to adjust the paper feed amount is printed, and the feed amount is automatically adjusted from the printed result. This takes longer than [Auto (GenuinePpr)] to print and consumes more ink.
			[Manual]	Select for paper that cannot be adjusted by [Auto(GenuinePpr)] or [Auto(OtherPaper)], such as highly transparent paper. Print a pattern to adjust the paper feed amount according to the type of paper.
	[Adjust Length]	[AdjustmentPrint]-[A:High]/[B:Standard/Draft]	Print a test pattern for adjustment relative to paper stretching or shrinkage, after which you can enter the amount of adjustment.	
		[Change Settings]-[A:High]/[B:Standard/Draft]	Displayed when [Print Length] is selected as [Adj. Priority] for [Feed Priority]. Adjust the expansion rate of the currently loaded paper. Enter the result adjusted with [AdjustmentPrint] or the difference with your own measurement in %. Increase the adjustment value to increase the feed amount for paper that tends to expand, and reduce it for paper that tends to shrink.	
	[Adj. Fine Feed]		Displayed when you have selected Feed Priority >Adj. Priority >Automatic or Print Quality. Fine-tune the feed amount manually during printing.	
	[Adj Far Ed Feed]		Choose Yes to adjust the feed amount for the trailing edge.	
	[Calibration]	[Auto Adjust]	Choose Yes for automatic adjustment of the adjustment value after a test pattern for color calibration is printed. The new color calibration adjustment value is applied in all print jobs.	
		[Calibration Log]	Check the date when color calibration was executed, as well as the type of paper used and the adjustment type, as shown on the Display Screen.	
		[Use Adj. Value]	Choose Disabled >OK if you prefer not to apply the color calibration adjustment value in print jobs. The printer driver settings will be used instead. Choose Enabled >OK to apply the color calibration adjustment value in print jobs. However, printer driver settings are given priority.	
		[Set Exec. Guide]	Choose On if you want to be displayed the message at the recommended timing of the calibration.	
		[Return Defaults]	Clear the color calibration adjustment value and the execution log.	

T-1-103

Setting Item		Description/Instructions
[Maintenance]	[Head Cleaning]	Specify Printhead cleaning options. Choose Head Cleaning A if printing is faint, oddly colored, or contains foreign substances. Choose Head Cleaning B if no ink is printed at all, or if printing is not improved by Head Cleaning A.
	[Nozzle Check]	Print a nozzle check pattern.
	[Replace P.head]	Not displayed during a warning message that the remaining Maintenance Cartridge capacity is low. When replacing the Printhead, choose Yes and follow the instructions on the screen.
	[Repl. maint cart]	When exchanging the maintenance cartridge, choose Yes and follow the instructions on the screen.
	[Head Info]	Indicates information about the printhead.
	[Clean Platen]	Move the Carriage in preparation for cleaning the Platen.

Setting Item			Description/Instructions		
[Interface Setup]	[EOP Timer]		Specify the timeout period before cancellation of print jobs that cannot be received by the printer.		
	[TCP/IP]	[IPv4]	[IPv4 Mode]	Choose whether the printer IP address is configured automatically or a static IP address is entered manually.	
			[Protocol]	[DHCP]/ [BOOTP]/ [RARP]	Specify the protocol used to configure the IP address automatically.
			[IPv4 Settings]	[IP Address]/ [Subnet Mask]/ [Default G/W]	Specify the printer network information when using a static IP address. Enter the IP address assigned to the printer, as well as the network subnet mask and default gateway.
			[DNS Settings]	[DNS Dync update]	Specify whether DNS server registration is updated automatically.
				[Pri. DNS SrvAddr]/[Sec. DNS SrvAddr]	Specify the DNS server address.
				[DNS Host Name]	Specify the DNS host name.
				[DNS Domain Name]	Specify the DNS domain name.
		[IPv6]	[IPv6 Support]		Set whether to support IPv6 connection.
			[IPv6 StatelessAddrs]		Set whether to use IPv6 stateless address.
			[DHCPv6]		Set whether to use DHCPv6 setting.
			[DNS Settings]	[DNS Dync update]- [Statefull Addr]/ [Stateless Addr]	Specify whether DNS server registration is updated automatically.
				[Pri. DNS SrvAddr]/[Sec. DNS SrvAddr]	Specify the DNS server address.
				[DNS Host Name]	Specify the DNS host name.
				[DNS Domain Name]	Specify the DNS domain name.
	[NetWare]	[NetWare]			Specify the NetWare protocol. To apply your changes, choose Register Setting.
		[Frame Type]			Specify the frame type to use.
		[Print Service]			Choose the print service.
	[AppleTalk]				Specify whether to use the AppleTalk protocol. To apply your changes, choose Register Setting.
	[Ethernet Driver]*12	[Auto Detect]			Specify the communication method. To apply your changes, choose Register Setting. Choose On for automatic configuration of the LAN communication protocol. Choose Off to use settings values of Comm.Mode and Ethernet Type.
		[Comm.Mode]			Choose the LAN communication method.
		[Ethernet Type]			Choose the LAN transfer rate.
		[Spanning Tree]			Choose whether spanning-tree packets are supported over the LAN.
		[MAC Address]			Displays the MAC address.
	[Interface Print]				Print the interface settings.
	[Return Defaults]				Select [OK] to return the [Interface Setup] settings to factory default.

Setting Item		Description/Instructions	
[System Setup]	[Sleep Timer]	Specify the period before the printer enters Sleep mode.	
	[Buzzer]	Set the buzzer. Choose On for the buzzer to sound once for warnings and three times for errors.	
	[Contrast Adj.]	Adjust the Display Screen contrast level.	
	[Date & Time]	[Date]	Set the current date.
		[Time]	Set the current time. This can be set only when [Date] is set.
	[Date Format]	Specify the date format.	
	[Language]	Specify the language used on the Display Screen.	
	[Time Zone]	Specify the time zone. Time zone options indicate a main city in this time zone and the difference from Greenwich Mean Time.	
	[Length Unit]	Choose the unit of measurement when roll length is displayed. You can switch the unit displayed for the remaining paper amount.	
	[Detect Mismatch]	Set the printing behavior when the paper type and size set with the printer menu does not match the paper type and size set with the printer driver. Select [Pause] to pause printing. Select [Warning] to print a warning and continue printing. Select [None] to continue printing without displaying a warning. Select [Hold Job] to queue the job with different paper type and size in a job queue on the hard disk.	
	[Paper Size Basis]	[Roll Selection 1]	When the size of roll paper is detected, select which roll width to use if the roll width is between [ISO A3 (297mm)] and [300mm Roll].
		[Roll Selection 2]	When the size of roll paper is detected, select which roll width to use if the roll width is between [10inch (254mm)] and [JIS B4 (257mm)].
	[Keep Paper Size]	Select [On] to give priority to paper size. If the margin set with the printer driver is less than the margin set with the printer menu, the margin set with the printer menu has priority and text and images extending beyond the margins are truncated. Select [Off] to give priority to margin settings. If the margins set with the printer driver and the margins set with the printer menu are different, the larger settings are used for printing.	
	[TrimEdge Reload]	Select whether cut the leading edge of the paper when the paper at the standby position has loaded. Cut it when the roller trace at the standby position attract attention. Choose On to cut it everytime when the paper at the standby position has loaded. Choose Automatic to cut it when the paper at the standby position during two days or more has loaded.	
	[Rep.P.head Print]	Select [On] to automatically perform [Adjust Detail] after replacing the Printhead.	
[Nozzle Check]	Set with [Frequency] the timing to check for nozzle clogging after printing. Select [Standard] to adjust the checking timing according to the nozzle usage. Select [1 page] to check after each page. Select [On] for [Warning] to display a warning when the print head nozzle is clogged while printing.		
[Use RemoteUI]	Select [Off] to disable access from RemoteUI and enable setting only from the operation panel.		
[Reset PaprSetngs]	Restores settings that you have changed with Media Configuration Tool to the factory default values.		

Setting Item		Description/Instructions	
[System Setup]	[Erase HDD Data]	[High Speed]	Delete the file management information of the saved data in the HDD.
		[Secure High Spd.]	Overwrite the random data in the whole of the hard disk drive.
		[Secure]	Overwrite 00 and FF and random data in the whole of the hard disk drive once at a time. Execute the verify check whether the data has written correctly to the hard disk drive.
	[Output Method]	[Print]	Select the output method of jobs sent from software other than the printer driver. This can be set from the printer if you are using a printer driver.
		[Print (Auto Del)]	Select [Print] to print normally. Select [Print (AutoDel)] to print and delete the data in hard disk.
		[Save: Box XX]	Select [Save: Box XX] to save to box without printing.
	[Print After Recv]	Setting of jobs sent from software other than the printer driver. This can be set from the printer if you are using a printer driver. Select [On] to print after saving.	
[Common Box set.]	Select [Print (AutoDel)] to print without saving to a common box.		
[Show Job Log]	Selecting off prevents display of the log in Job Menu>Job Log. Additionally, the log is not printed if you choose Job Menu>Print Job Log. Note that because job logs are not collected, the Status Monitor accounting functions will not work correctly.		
[Prep.MovePrinter]	Select when moving the printer. Follow the instruction on the screen and perform the necessary process. This is not displayed when displaying a warning message about the amount remaining maintenance cartridge.		
[Admin. Menu]	[Change Password]	Set a password to restrict displaying/setting of menus as follows. Allowed value is from 0 to 9999999. - Allow only administrator to display/set [IPv4] [Change Password] [Init.Admin.Pswd] - Allow administrator to display/set and non-administrator to display only [Interface Setup](exclude [IPv4]) [Date & Time] [Date Format] [Time Zone] [Use RemoteUI] [Reset PaprSetngs] [Save: Shared Box]	
	[Init.Admin.Pswd]	Press [OK] to return the [Administrator Menu] password to factory default.	
[Printer Info]	[Paper Info]	Indicates the current paper size, type, and related printer settings.	
	[Ink Info]	Indicates ink levels and maintenance cartridge capacity.	
	[Head Info]	Indicates information about the printhead.	
	[System Info]	Indicates the firmware version, serial number, and interface information.	
	[Error Log]	Indicates the most recent error messages (up to five).	
[Other Counter]	Indicates the total printing volume of the printer.		

1.7 Safety and Precautions

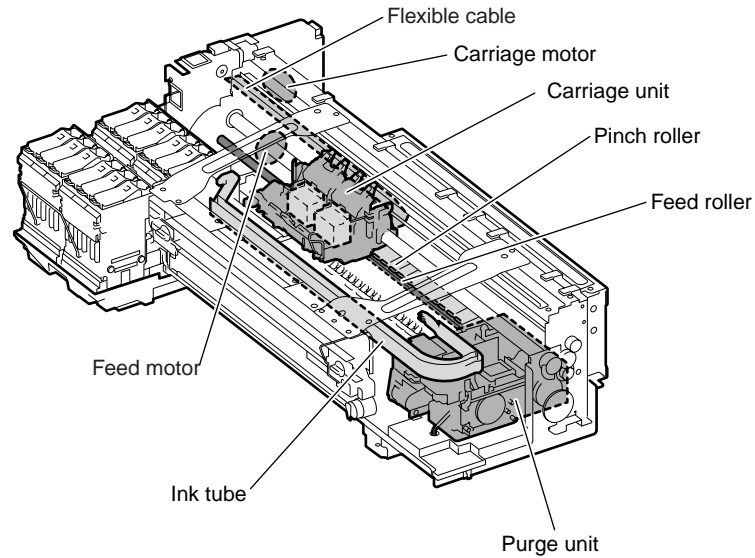
1.7.1 Safety Precautions

1.7.1.1 Moving Parts

iPF6100 / iPF6200 / iPF6000S / iPF6300 / iPF6350 / iPF6300S

Moving parts of the printer include the carriage unit driven by the carriage motor, the carriage belt, the ink tube, the flexible cable, the feed roller driven by the feed motor, the pinch roller, and the purge unit driven by the purge motor.

To prevent accidents, if the top cover is opened in the online/offline mode, the carriage motor, feed motor, and other driving power supplies are turned off.



F-1-54

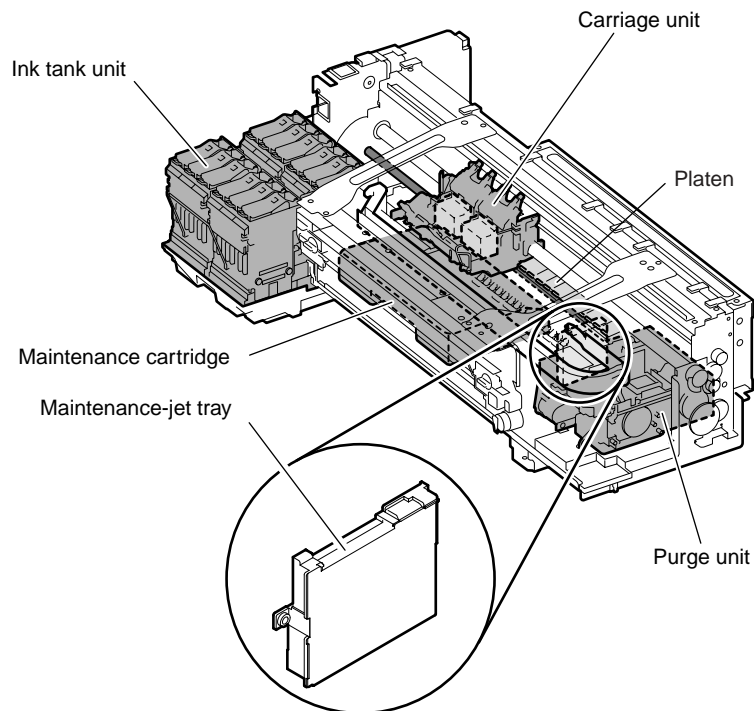
1.7.1.2 Adhesion of Ink

iPF6100 / iPF6200 / iPF6000S / iPF6300 / iPF6350 / iPF6300S

(1) Ink passages

Be careful not to touch the ink passages of the printer to prevent the printer, workbench, and clothes from being stained with ink.

The ink flows through the ink tank unit, carriage unit, purge unit, maintenance jet tray, maintenance cartridge, and the ink tubes that relay ink to individual units.



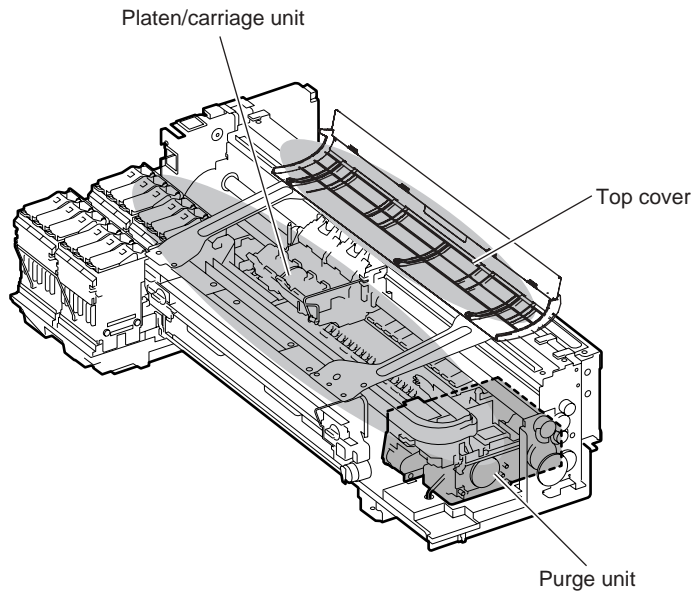
F-1-55



- Although the ink is not harmful to the human body, it contains organic solvents. Ink may contaminate the surrounding parts. Carry out the work with due caution. If your hands are stained with ink, wash them with a plenty of water. Be careful not to allow the ink to get into your mouth or eyes.
 - If the ink gets into your eyes, flush them with water well and see a doctor.
 - In case of accidental ingestion of a large quantity of ink, see a doctor immediately.
 - It is also effective to use gloves to prevent ink from adhering when working.
 - Since this ink contains pigment, stains will not come out of clothing.
-

(2) Ink Mist

Since the printhead prints by squirting ink onto the media, a minute amount of ink mist is generated in the printing unit during printing. The generated ink mist is collected in the printer by the airflow. However, uncollected ink mist may stain the platen, carriage unit, exterior, and purge unit. These stains may soil the print media or hands and clothes when servicing the printer. Wipe them off carefully with a soft, well-wrung cloth.



F-1-56

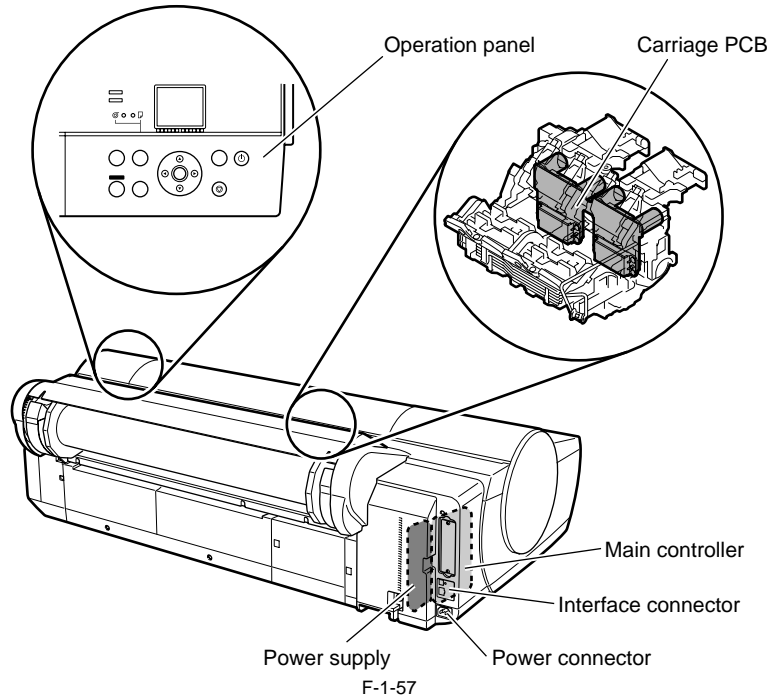
1.7.1.3 Electric Parts

iPF6100 / iPF6200 / iPF6000S

The electric parts of the printer are activated when the printer is connected to the AC power supply.

At the left rear of the printer are the main controller, power supply, and interface connector. The carriage PCB is incorporated in the carriage unit, and the operation panel is on the upper right top cover.

When serving the printer with the cover removed, be extremely careful to avoid electric shock and shorting electrical devices.



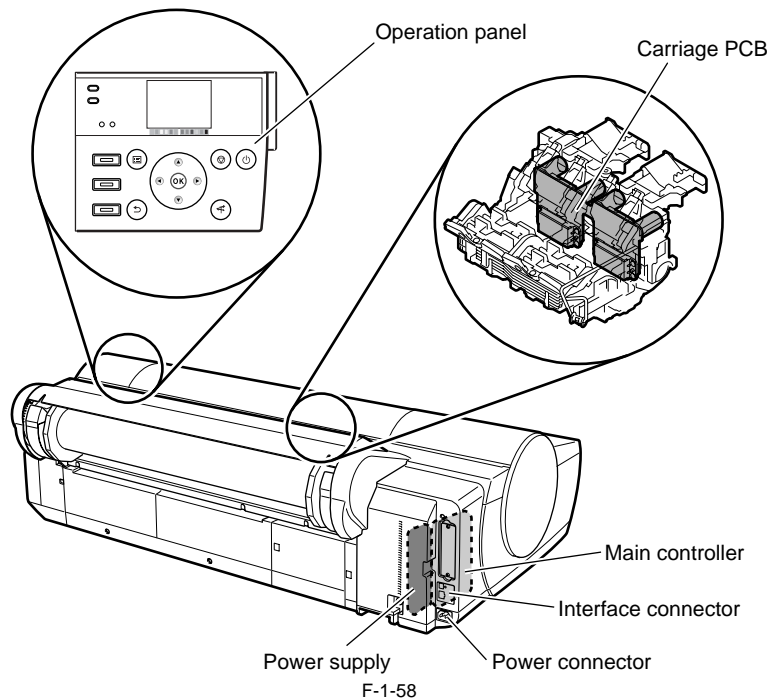
1.7.1.4 Electric Parts

iPF6300 / iPF6350 / iPF6300S

The electric parts of the printer are activated when the printer is connected to the AC power supply.

At the left rear of the printer are the main controller, power supply, and interface connector. The carriage PCB is incorporated in the carriage unit, and the operation panel is on the upper right top cover.

When serving the printer with the cover removed, be extremely careful to avoid electric shock and shorting electrical devices.



1.7.2 Other Precautions

1.7.2.1 Printhead

iPF6100

1. How to Handle the Printhead

Do not open the printhead package until you are ready to install the head.

When installing the printhead in the printer, hold the knob[1] and then remove the protective cap 1[2] and protective cap 2[3] in that order.

Do not reattach the protective cap 2[3] to the printhead because the cap may damage the nozzles[4].

To prevent the nozzles from getting clogged with foreign matter or dried ink, install the printhead immediately after you remove the protective caps.

Also make sure to press down the locking lever of the printhead until you feel a click.

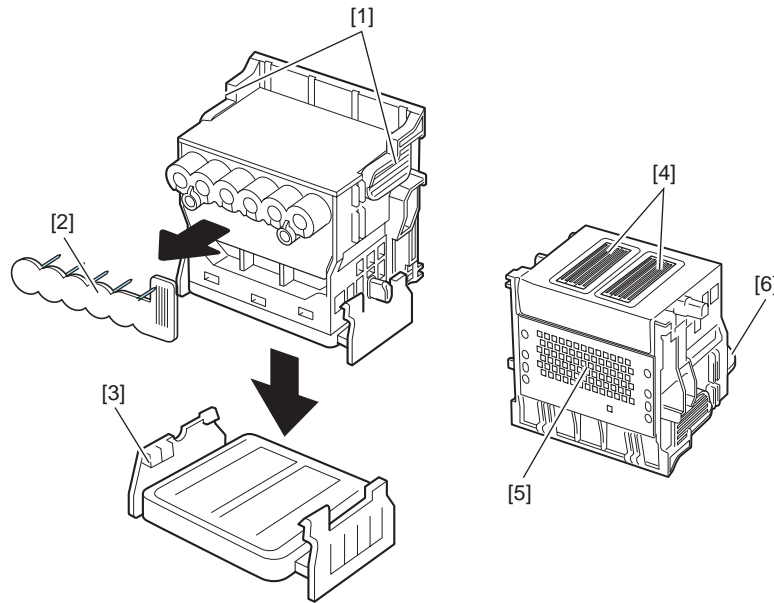
In addition, to prevent clogging of the nozzles with foreign matter and improper supply of ink, never touch the nozzles[4] or ink port[6], or wipe it with tissue paper or anything else.

Do not touch Electrical contact[5].

Also, never attempt to disassemble/reassemble the printhead or wash it with water.

MEMO:

If the nozzles are clogged or an ink suction problem occurs, white lines can appear on the printout a constant frequency or color dulling can occur. If this problem is not resolved by cleaning operations, replace the printhead with a new one.



F-1-59

T-1-107

- | | |
|----------------------|------------------------|
| [1] knob | [4] nozzles |
| [2] protective cap 1 | [5] Electrical contact |
| [3] protective cap 2 | [6] ink port |

2. Capping

The printer will perform the capping operation when printing has ended or during standby due to an error, in order to protect the printhead and avoid ink leakage. If the power cord is accidentally unplugged, turn off the Power button, reconnect the power cord, and then turn on the Power button. Confirm that the printer starts up properly and enters to the "Online" or "Offline" status, and then power off the printer using the Power button.



Improper "capping operation" may cause clogged nozzles due to dried ink or ink leakage from the printhead.

3. When the printer is not used for a long time

Keep the printhead installed in the printer even when it is not used for an extended period of time.



If the printhead is left uninstalled, a printing failure may arise from closed nozzles due to depositing of foreign matter or dried ink when it is reinstalled. Even if the head remains installed, the nozzle may dry out and cause a printing failure if the ink is drained for transport.

4. Conductivity of Ink

The ink used in this printer is electrically conductive. If ink leaks into the mechanical unit, wipe clean with a soft, well-wrung damp cloth. If ink leaks onto electrical units, wipe them completely using tissue paper. If you cannot remove ink completely, replace the electrical units with new ones.



If electrical units are powered with ink leaked onto them, the units may damage.
Never connect the power cord when ink has leaked onto the electrical units.

1.7.2.2 Printhead

iPF6200 / iPF6000S / iPF6300 / iPF6350 / iPF6300S

1. How to Handle the Printhead

Do not open the printhead package until you are ready to install the head.

When installing the printhead in the printer, hold the knob[1] and then remove the protective cap 1[2] and protective cap 2[3] in that order.

Do not reattach the protective cap 2[3] to the printhead because the cap may damage the nozzles[4].

To prevent the nozzles from getting clogged with foreign matter or dried ink, install the printhead immediately after you remove the protective caps.

Also make sure to press down the locking lever of the printhead until you feel a click.

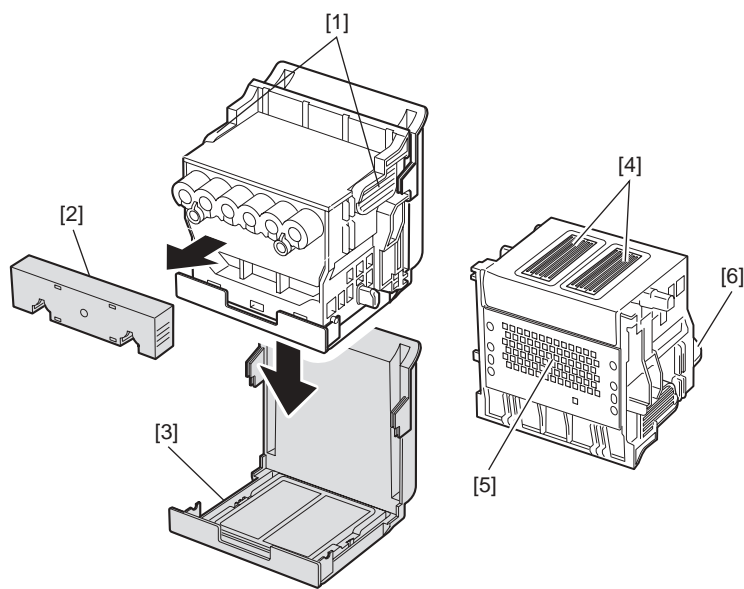
In addition, to prevent clogging of the nozzles with foreign matter and improper supply of ink, never touch the nozzles[4] or ink port[6], or wipe it with tissue paper or anything else.

Do not touch Electrical contact[5].

Also, never attempt to disassemble/reassemble the printhead or wash it with water.

MEMO:

If the nozzles are clogged or an ink suction problem occurs, white lines can appear on the printout at a constant frequency or color dulling can occur. If this problem is not resolved by cleaning operations, replace the printhead with a new one.



F-1-60

T-1-108

- | | |
|----------------------|------------------------|
| [1] knob | [4] nozzles |
| [2] protective cap 1 | [5] Electrical contact |
| [3] protective cap 2 | [6] ink port |

2. Capping

The printer will perform the capping operation when printing has ended or during standby due to an error, in order to protect the printhead and avoid ink leakage. If the power cord is accidentally unplugged, turn off the Power button, reconnect the power cord, and then turn on the Power button. Confirm that the printer starts up properly and enters to the "Online" or "Offline" status, and then power off the printer using the Power button.



Improper "capping operation" may cause clogged nozzles due to dried ink or ink leakage from the printhead.

3. When the printer is not used for a long time

Keep the printhead installed in the printer even when it is not used for an extended period of time.



If the printhead is left uninstalled, a printing failure may arise from closed nozzles due to depositing of foreign matter or dried ink when it is reinstalled. Even if the head remains installed, the nozzle may dry out and cause a printing failure if the ink is drained for transport.

4. Conductivity of Ink

The ink used in this printer is electrically conductive. If ink leaks into the mechanical unit, wipe clean with a soft, well-wrung damp cloth. If ink leaks onto electrical units, wipe them completely using tissue paper. If you cannot remove ink completely, replace the electrical units with new ones.



If electrical units are powered with ink leaked onto them, the units may damage. Never connect the power cord when ink has leaked onto the electrical units.

1.7.2.3 Ink Tank

iPF6100 / iPF6200 / iPF6000S / iPF6300 / iPF6350 / iPF6300S

1. Unpacking the Ink Tank

Do not unpack the ink tank until you are ready to install it.

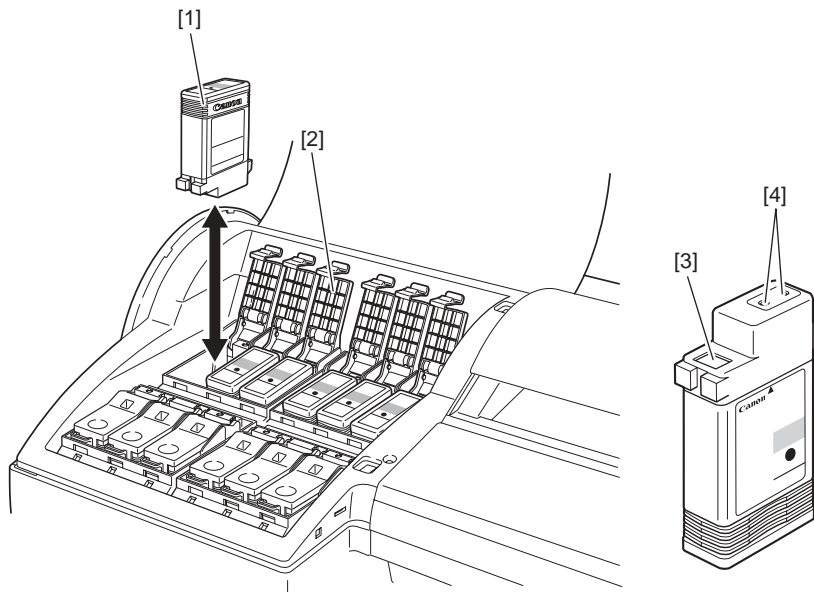
When installing the ink tank, be sure to shake it slowly 7 to 8 times before unpacking it. Otherwise, the ink ingredients may precipitate and degrade the print quality. To prevent foreign matter from entering the ink port, install the unpacked ink tank in the printer immediately.

2. Handling the Ink Tank

To prevent foreign matter from entering the ink flow path and causing ink suction and printing problems, never touch the ink port and contacts of the ink tank.

When you press down the ink tank lock lever, the needle enters the ink port, allowing ink to flow between the printer and ink tank.

Do not raise or lower the ink tank lock lever except when replacing the ink tank.



F-1-61

- [1] Ink tank
- [2] Ink tank lock lever
- [3] Contacts
- [4] Ink port

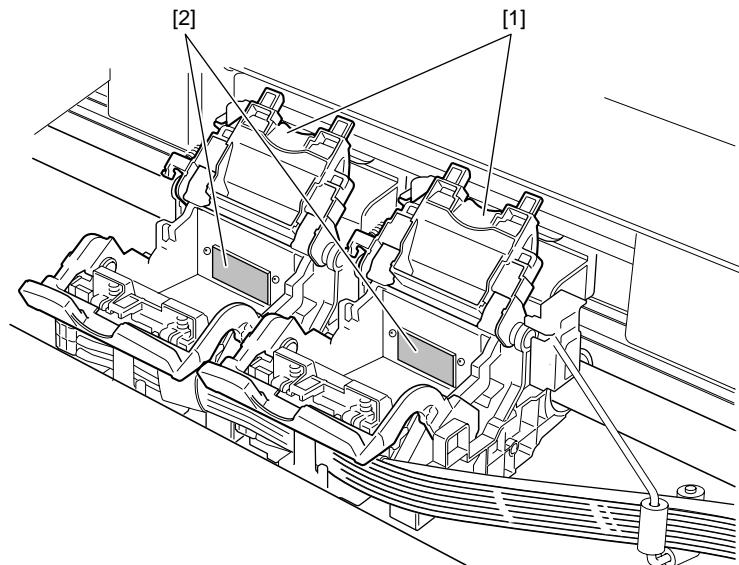
1.7.2.4 Handling the Printer

iPF6100 / iPF6200 / iPF6000S

1. Precautions against Static Electricity

Certain clothing may generate static electricity, causing an electrical charge to build up on your body. Such a charge can damage electrical devices or change their electrical characteristics.

In particular, never touch the printhead contacts.



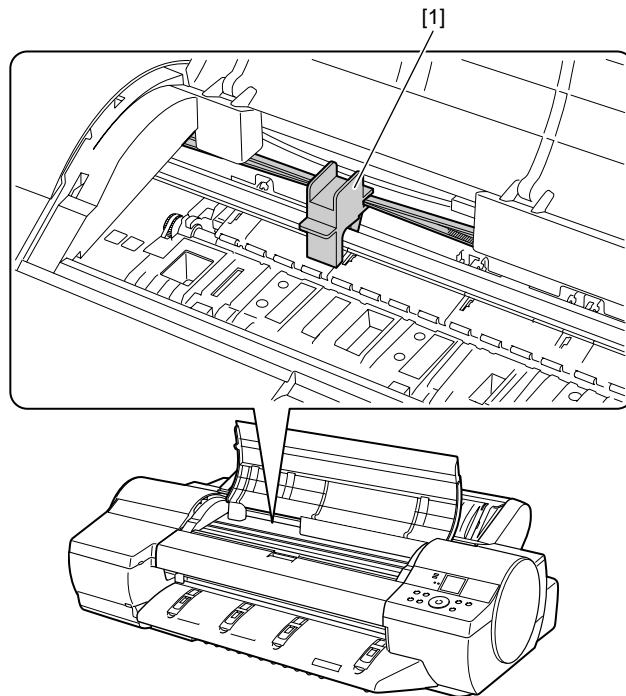
F-1-62

- [1] Carriage unit
- [2] Printhead contacts

2. Fixing the Carriage

After completion of printing, the carriage is mechanically locked by the lock arm in the purge unit at the same moment the printhead is capped.

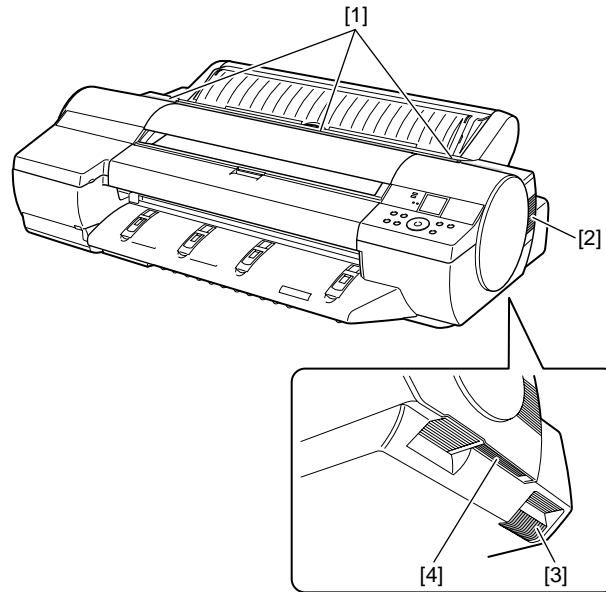
Before transporting the printer, secure the carriage at its home position using belt stoppers[1] so that the carriage does not become separated from the lock arm and damage or ink does not leak.



F-1-63

3. Vent holes

This printer has four vent holes, [1] to [4]. Do not block the vent holes when the printer is in service.

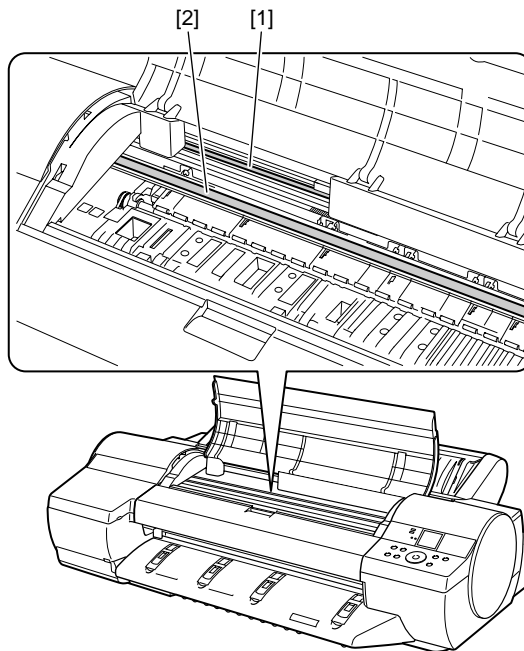


F-1-64

4. Contact of Linear Scale/Carriage Shaft

Do not touch the linear scale and carriage shaft when the upper cover is opened, for maintenance.

Touching the linear scale and carriage shaft might cause abnormal movement of the carriage and produce defective prints.



F-1-65

- [1] Linear Scale
- [2] Carriage Shaft

5. Handling the Maintenance Cartridge

When removing the maintenance cartridge from the printer, use caution so that waste ink does not spatter.

6. Refilling the Printer with Ink

After draining the ink from inside the printer using the automatic or manual ink draining procedure for disassemble/reassemble or transport the printer, refill the printer with ink as soon as possible upon completion of the work.

Dried remaining ink on the surface of some components, may cause damage or abnormal operations.

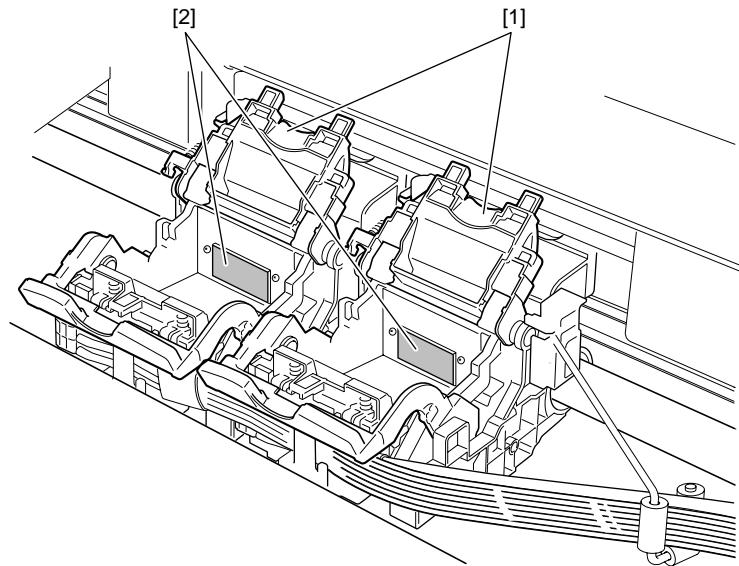
1.7.2.5 Handling the Printer

iPF6300 / iPF6350 / iPF6300S

1. Precautions against Static Electricity

Certain clothing may generate static electricity, causing an electrical charge to build up on your body. Such a charge can damage electrical devices or change their electrical characteristics.

In particular, never touch the printhead contacts.



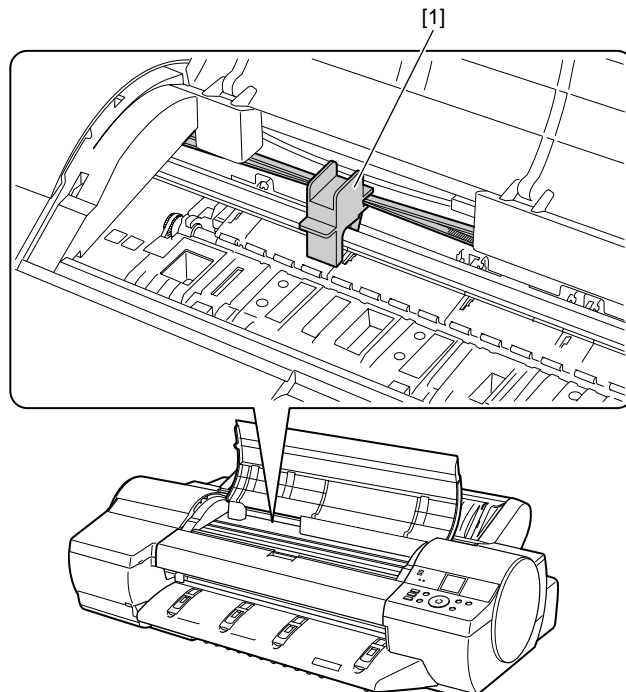
F-1-66

- [1] Carriage unit
- [2] Printhead contacts

2. Fixing the Carriage

After completion of printing, the carriage is mechanically locked by the lock arm in the purge unit at the same moment the printhead is capped.

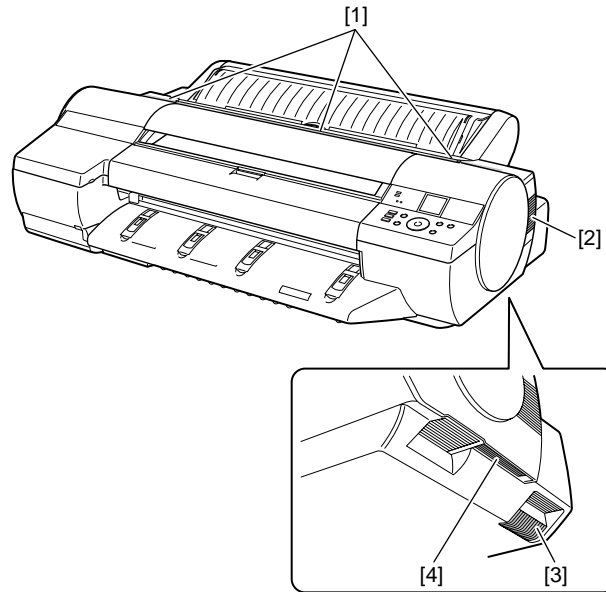
Before transporting the printer, secure the carriage at its home position using belt stoppers[1] so that the carriage does not become separated from the lock arm and damage or ink does not leak.



F-1-67

3. Vent holes

This printer has four vent holes, [1] to [4]. Do not block the vent holes when the printer is in service.

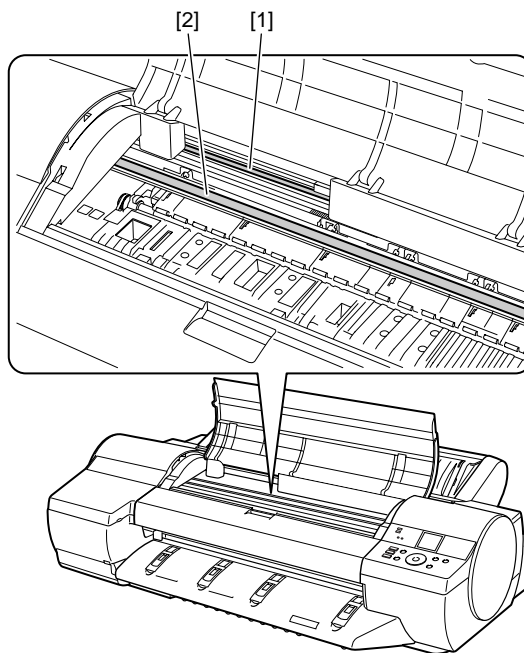


F-1-68

4. Contact of Linear Scale/Carriage Shaft

Do not touch the linear scale and carriage shaft when the upper cover is opened, for maintenance.

Touching the linear scale and carriage shaft might cause abnormal movement of the carriage and produce defective prints.



F-1-69

- [1] Linear Scale
- [2] Carriage Shaft

5. Handling the Maintenance Cartridge

When removing the maintenance cartridge from the printer, use caution so that waste ink does not spatter.

6. Refilling the Printer with Ink

After draining the ink from inside the printer using the automatic or manual ink draining procedure for disassemble/reassemble or transport the printer, refill the printer with ink as soon as possible upon completion of the work.

Dried remaining ink on the surface of some components, may cause damage or abnormal operations.

1.7.3 Precautions When Servicing Printer

1.7.3.1 Notes on the Data Stored in the Printer

iPF6100 / iPF6200 / iPF6000S / iPF6300 / iPF6350 / iPF6300S

This printer counts the print length, number of ink tank replacements, number of cleaning operations, number of cutter operations, and so on and stores them in the main controller's EEPROM as a service mode counter.

This counter provides important information about the printer usage status.

You can check this information by printing it in the service mode or displaying it on the display.

Follow the precautions below when servicing the printer.

(1) Repairing/replacing the PCB

When replacing the main controller, follow the specified replacement procedure.

For the main controller replacement procedure, see "Disassembly/Reassembly" > "Points to Note on Disassembly and Reassembly" > "Boards".

(2) After replacing the purge unit

The information about the number of cleanings resides in the purge unit. After replacing the purge unit, select [INITIALIZE] > [PURGE] in the service mode to initialize (clear) the information about the number of cleanings.

(3) On replacement of supplies

After supplies have been replaced, execute [INITIALIZE] > [PARTS COUNTER] > [PARTS xx] in service mode to initialize (clear) the parts counter information.

For the consumable parts, see "Maintenance" > "Consumable Parts".



You cannot check the counter information once it is initialized (cleared). Be careful not to initialize the counter information before checking it. You cannot modify the counter information from the operation panel.

1.7.3.2 Confirming the Firmware Version

iPF6100 / iPF6200 / iPF6000S / iPF6300 / iPF6350 / iPF6300S

Firmware has been downloaded to the main controller.

When you have replaced the main controller, check that the firmware is the latest version. If not, update it to the latest version.

Reference:

For instruction on how to update the main controller, refer to "TROUBLESHOOTING" > "Update".

1.7.3.3 Precautions against Static Electricity

iPF6100 / iPF6200 / iPF6000S / iPF6300 / iPF6350 / iPF6300S

Certain clothing may generate static electricity, causing an electrical charge to build up on your body. Such a charge can damage electrical devices or change their electrical characteristics.

Before disassembling the printer for servicing, discharge any static buildup by touching a grounded metal fitting or the like.

1.7.3.4 Precautions for Disassembly/Reassembly

iPF6100 / iPF6200 / iPF6000S / iPF6300 / iPF6350 / iPF6300S

The precautions for disassembly/reassembly are described in "Disassembly/Reassembly".

1.7.3.5 Self-diagnostic Feature

iPF6100 / iPF6200 / iPF6000S / iPF6300 / iPF6350 / iPF6300S

The printer has a self-diagnostic feature to analyze hardware problems.

The self-diagnosis result is shown on the display and indicated by lamps.

For detailed information, see "Error Codes".

1.7.3.6 Disposing of the Lithium Battery

iPF6100 / iPF6200 / iPF6000S / iPF6300 / iPF6350 / iPF6300S

The main controller PCB of this printer is equipped with a lithium battery to back up various data.



Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.

"For CA, USA Only

Included battery contains Perchlorate Material-special handling may apply. See

<http://www.dtsc.ca.gov/hazardouswaste/perchlorate/> for detail."

Achtung:

Die Lithiumbatterie darf nur durch das Originalersatzteil (Parts Katalog) ersetzt werden;
ansonsten besteht Brand-/Explosionsgefahr.

Lithiumbatterien niemals aufladen, demontieren oder durch Verbrennen entsorgen;
bei der Entsorgung die örtlichen Entsorgungsvorschriften beachten (Schadstoffe; Sondermüll).

Chapter 2 TECHNICAL REFERENCE

Contents

2.1 Basic Operation Outline.....	2-1
2.1.1 Printer Diagram.....	2-1
2.1.2 Printer Diagram.....	2-2
2.1.3 Printer Diagram.....	2-3
2.1.4 Printer Diagram.....	2-4
2.1.5 Printer Diagram.....	2-5
2.1.6 Printer Diagram.....	2-6
2.1.7 Print Signal Sequence	2-7
2.1.8 Print Signal Sequence	2-8
2.1.9 Print Signal Sequence	2-9
2.1.10 Print Driving	2-10
2.1.11 Print Driving	2-12
2.1.12 Print Driving	2-14
2.2 Firmware	2-16
2.2.1 Operation Sequence at Power-on.....	2-16
2.2.2 Operation Sequence at Power-off	2-17
2.2.3 Print Control.....	2-18
2.2.4 Print Position Adjustment Function.....	2-24
2.2.5 Head Management	2-24
2.2.6 Printhead Overheating Protection Control.....	2-24
2.2.7 Pause between Pages.....	2-24
2.2.8 White Raster Skip	2-24
2.2.9 Sleep Mode	2-24
2.2.10 Hard Disk Drive.....	2-24
2.3 Printer Mechanical System	2-26
2.3.1 Outline.....	2-26
2.3.1.1 Outline.....	2-26
2.3.2 Ink Passage.....	2-27
2.3.2.1 Ink Passage.....	2-27
2.3.2.1.1 Overview of Ink Passage.....	2-27
2.3.2.2 Ink Tank Unit	2-29
2.3.2.2.1 Structure of Ink Tank Unit	2-29
2.3.2.2.2 Structure of Ink Tank Unit	2-31
2.3.2.3 Carriage Unit	2-33
2.3.2.3.1 Functions of Carriage Unit.....	2-33
2.3.2.3.2 Functions of Carriage Unit.....	2-34
2.3.2.3.3 Structure of Carriage Unit.....	2-35
2.3.2.4 Printhead	2-37
2.3.2.4.1 Structure of Printhead.....	2-37
2.3.2.5 Purge Unit	2-38
2.3.2.5.1 Functions of Purge Unit	2-38
2.3.2.5.2 Structure of Purge Unit	2-40
2.3.2.6 Maintenance Cartridge	2-42
2.3.2.6.1 Maintenance Cartridge	2-42
2.3.2.6.2 Maintenance Cartridge	2-43
2.3.2.7 Air Flow	2-44
2.3.2.7.1 Air flow	2-44
2.3.3 Paper Path	2-45
2.3.3.1 Outline.....	2-45
2.3.3.1.1 Overview of Paper Path.....	2-45
2.3.3.2 Paper Path.....	2-46
2.3.3.2.1 Structure of Roll Media Pick-up Unit	2-46

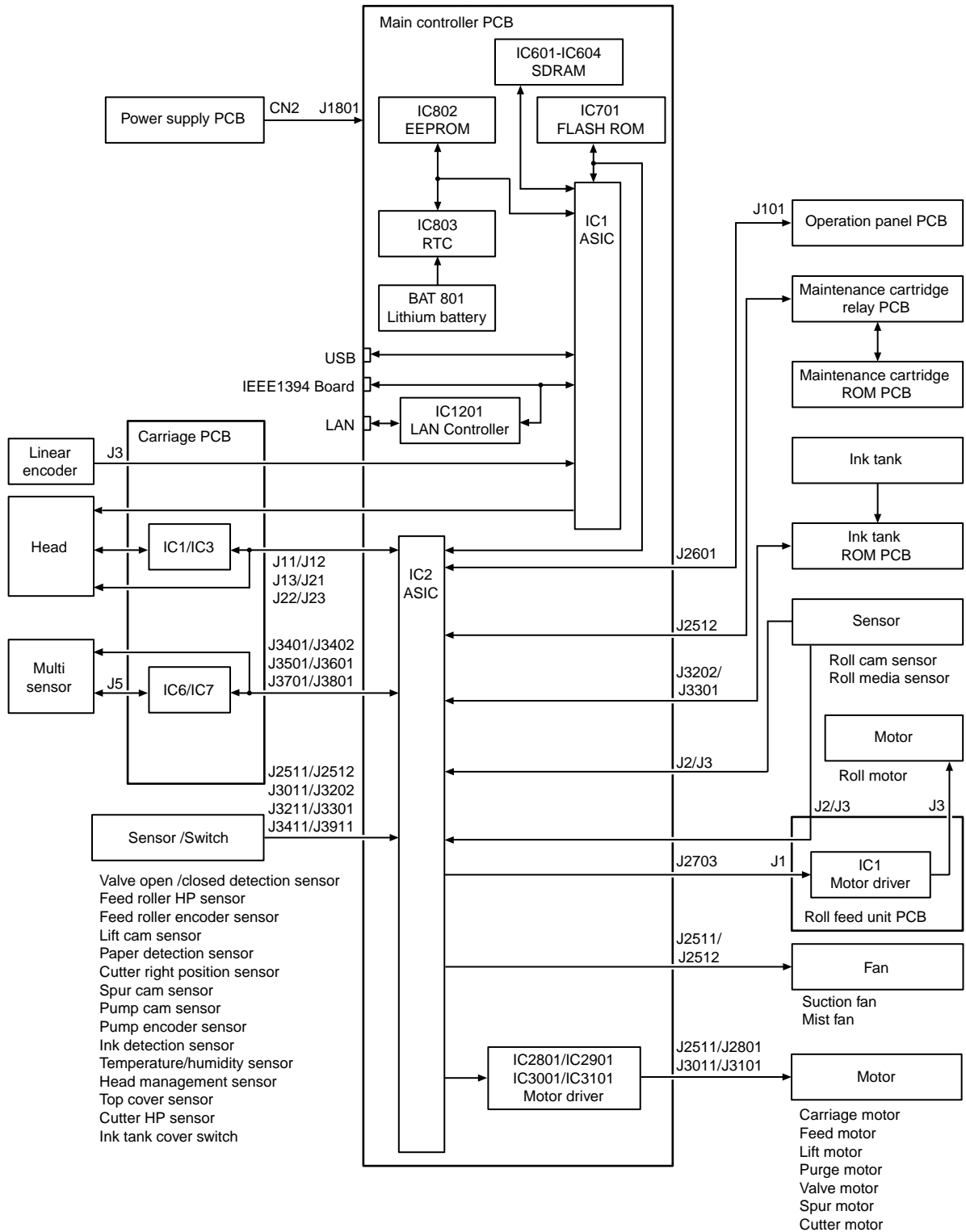
2.3.3.2.2 Roll Media Pick-up Sequence.....	2-48
2.3.3.2.3 Structure of Manual Feed Unit.....	2-49
2.3.3.2.4 Manual Feed (from Front) Sequence.....	2-51
2.3.3.2.5 Manual Feed (from Rear) Sequence.....	2-51
2.3.3.2.6 Structure of Feed Roller Unit.....	2-53
2.3.3.2.7 Feed Roller Eccentricity Detection Function.....	2-54
2.3.3.2.8 Structure of Ejection Spur.....	2-55
2.3.3.3 Cutter Unit.....	2-56
2.3.3.3.1 Structure of Cutter unit.....	2-56
2.3.3.3.2 Structure of Cutter Unit.....	2-57
2.4 Printer Electrical System.....	2-58
2.4.1 Outline.....	2-58
2.4.1.1 Overview.....	2-58
2.4.1.2 Overview.....	2-60
2.4.1.3 Overview.....	2-62
2.4.1.4 Overview.....	2-64
2.4.1.5 Overview.....	2-66
2.4.2 Main Controller.....	2-68
2.4.2.1 Main controller PCB components.....	2-68
2.4.2.2 Main controller PCB components.....	2-69
2.4.2.3 Main controller PCB components.....	2-71
2.4.2.4 Main controller PCB components.....	2-72
2.4.2.5 Main controller PCB components.....	2-74
2.4.2.6 Main controller PCB components.....	2-75
2.4.2.7 HDD expansion PCB components.....	2-77
2.4.3 Carriage Relay PCB.....	2-77
2.4.3.1 Carriage PCB components.....	2-77
2.4.4 Motor Driver.....	2-78
2.4.4.1 Roll feed unit PCB components.....	2-78
2.4.5 Maintenance Cartridge Relay PCB.....	2-78
2.4.5.1 Maintenance cartridge relay PCB components.....	2-78
2.4.6 Power Supply.....	2-79
2.4.6.1 Power supply block diagram.....	2-79
2.5 Detection Functions with Sensors.....	2-80
2.5.1 Sensors for covers.....	2-80
2.5.2 Ink passage system.....	2-81
2.5.3 Ink passage system.....	2-83
2.5.4 Ink passage system.....	2-85
2.5.5 Ink passage system.....	2-87
2.5.6 Carriage system.....	2-89
2.5.7 Paper path system.....	2-91
2.5.8 Paper path system.....	2-93
2.5.9 Others.....	2-95

2.1 Basic Operation Outline

2.1.1 Printer Diagram

iPF6100

Shown below is a printer diagram.

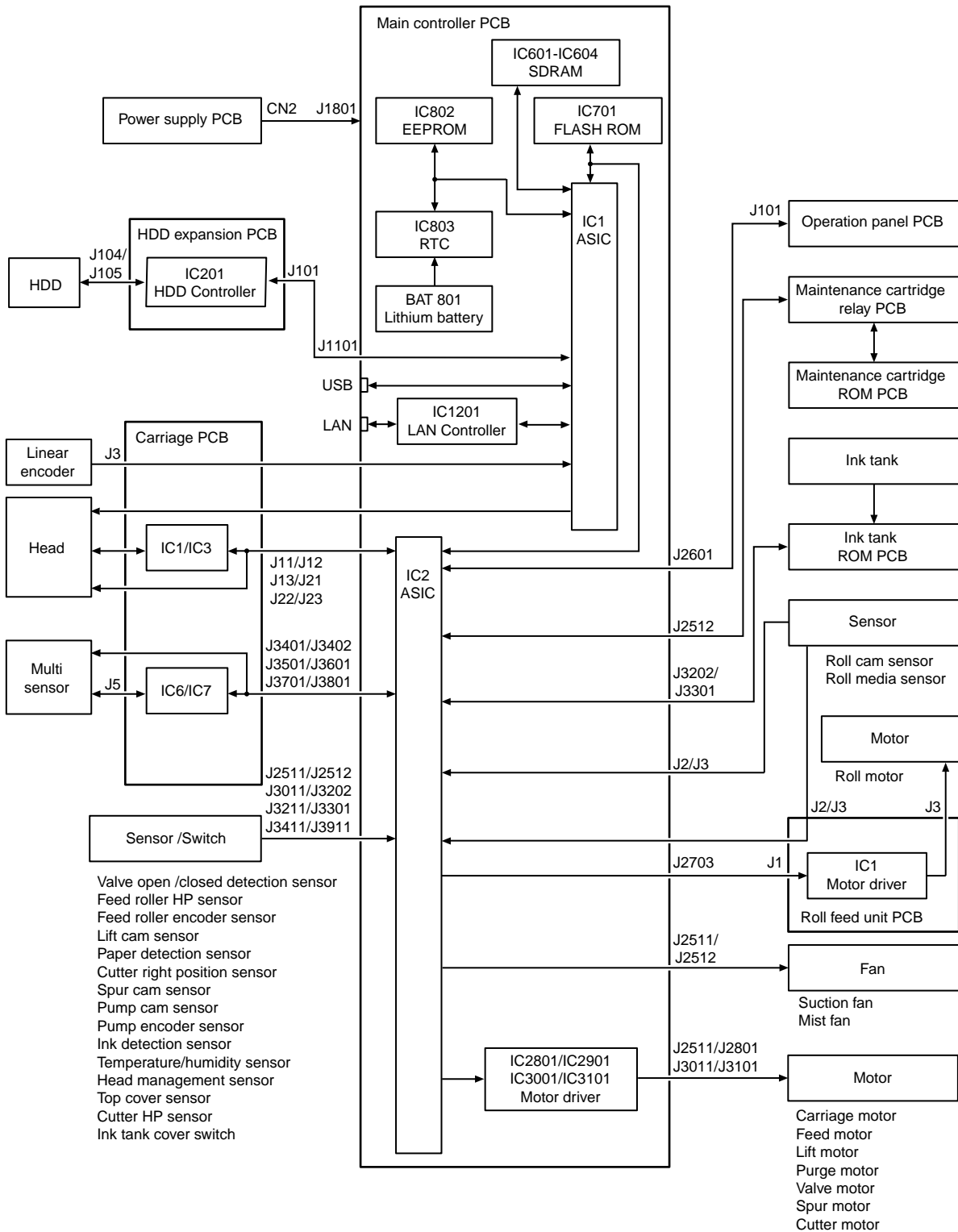


F-2-1

2.1.2 Printer Diagram

iPF6200

Shown below is a printer diagram.

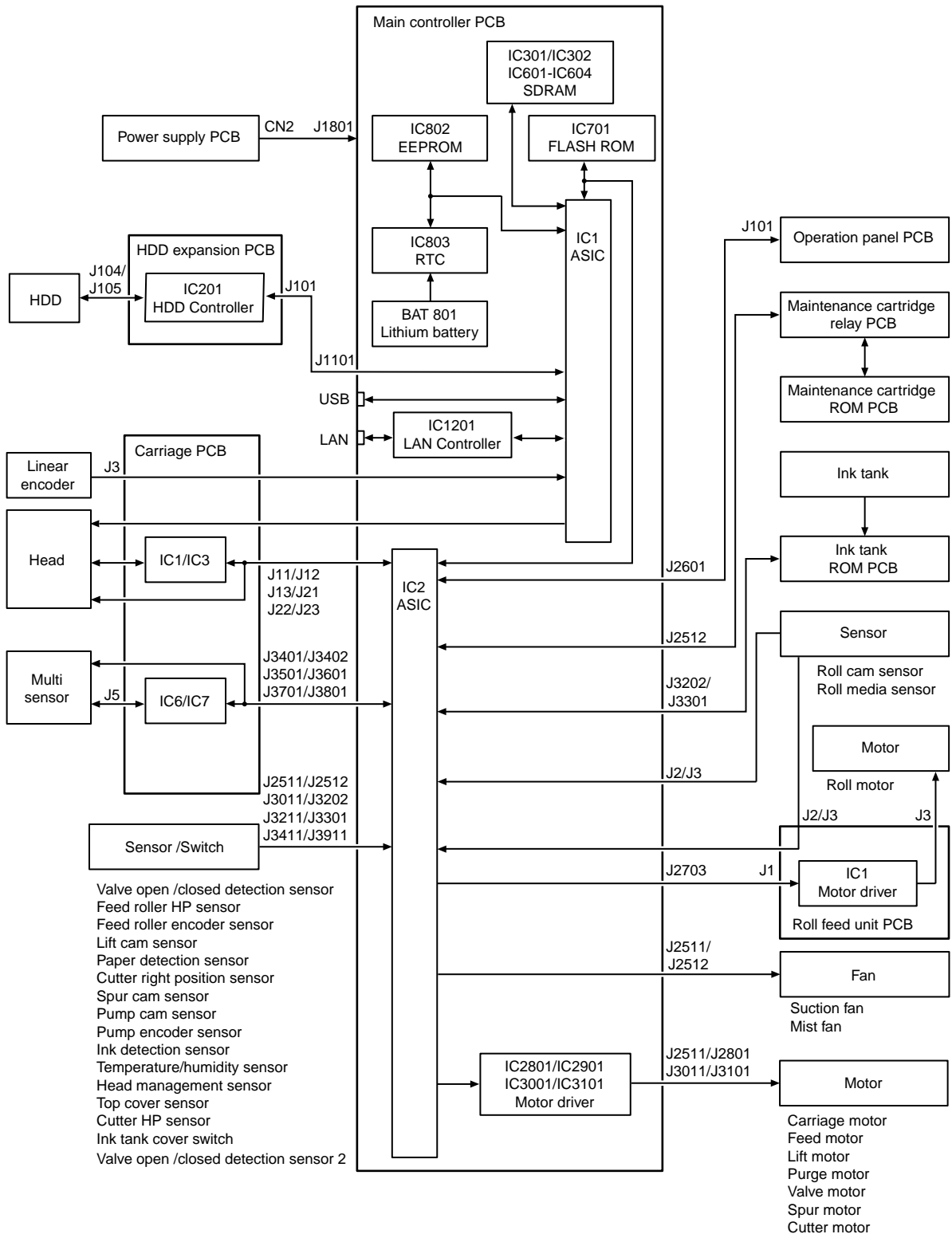


F-2-2

2.1.3 Printer Diagram

iPF6000S

Shown below is a printer diagram.

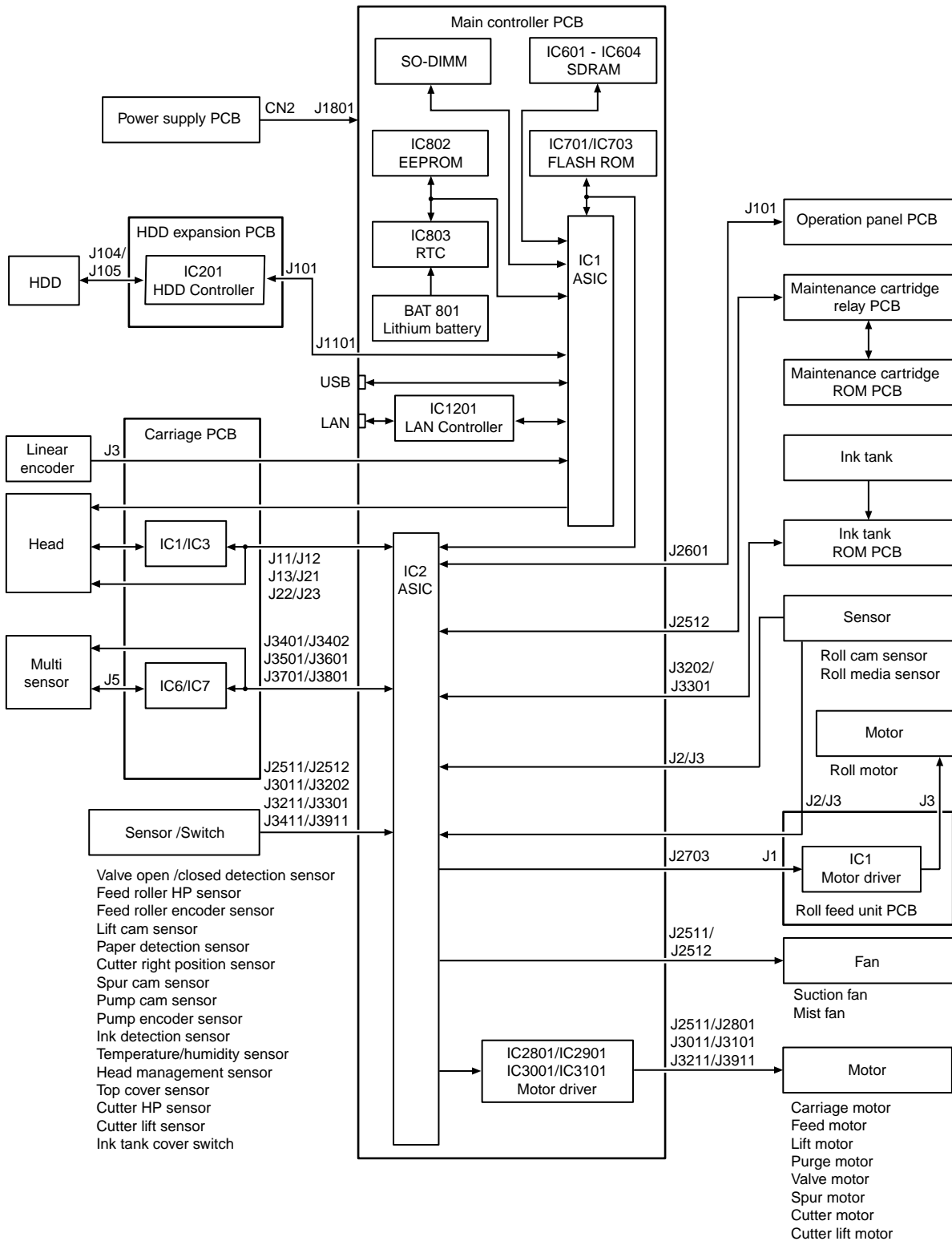


F-2-3

2.1.4 Printer Diagram

iPF6350

Shown below is a printer diagram.

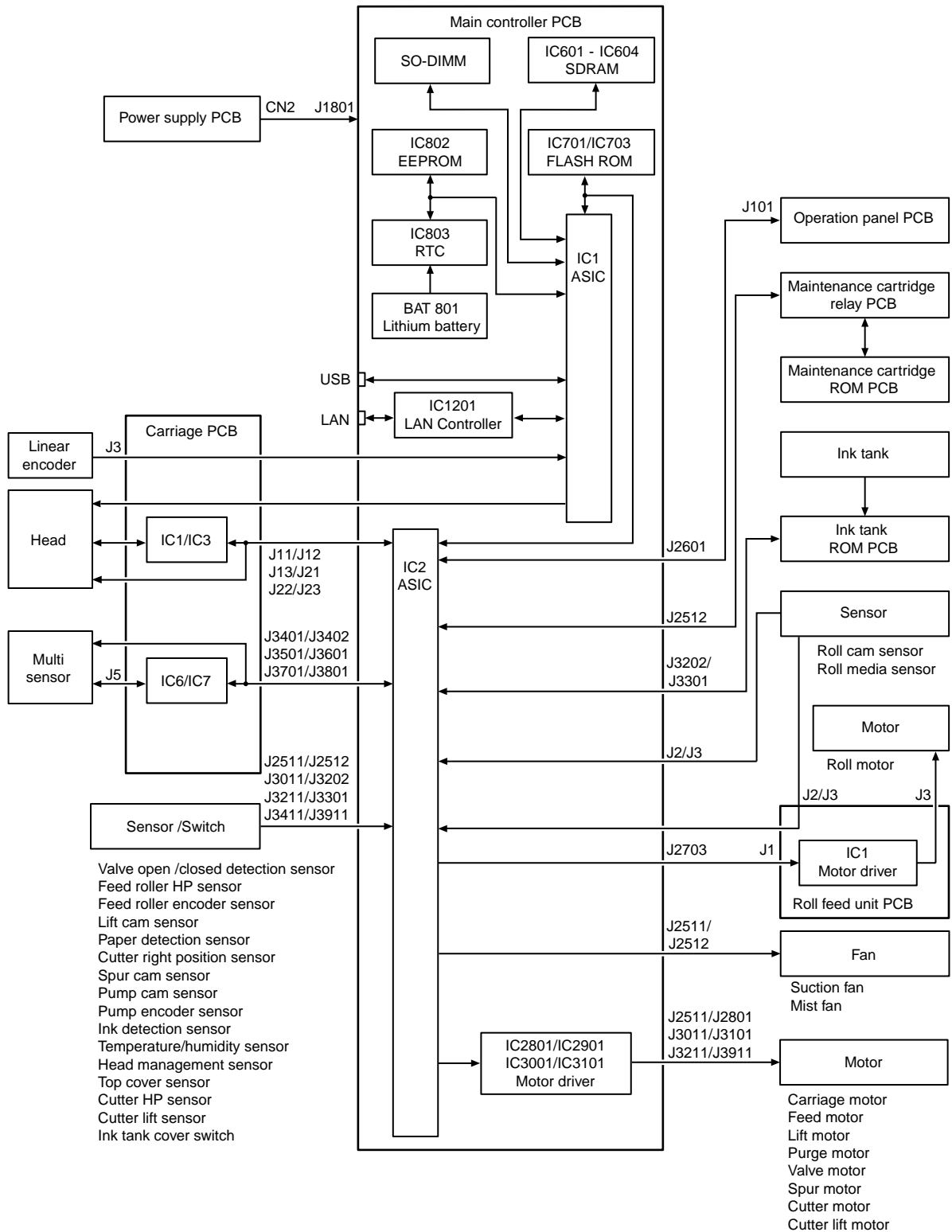


F-2-4

2.1.5 Printer Diagram

iPF6300

Shown below is a printer diagram.

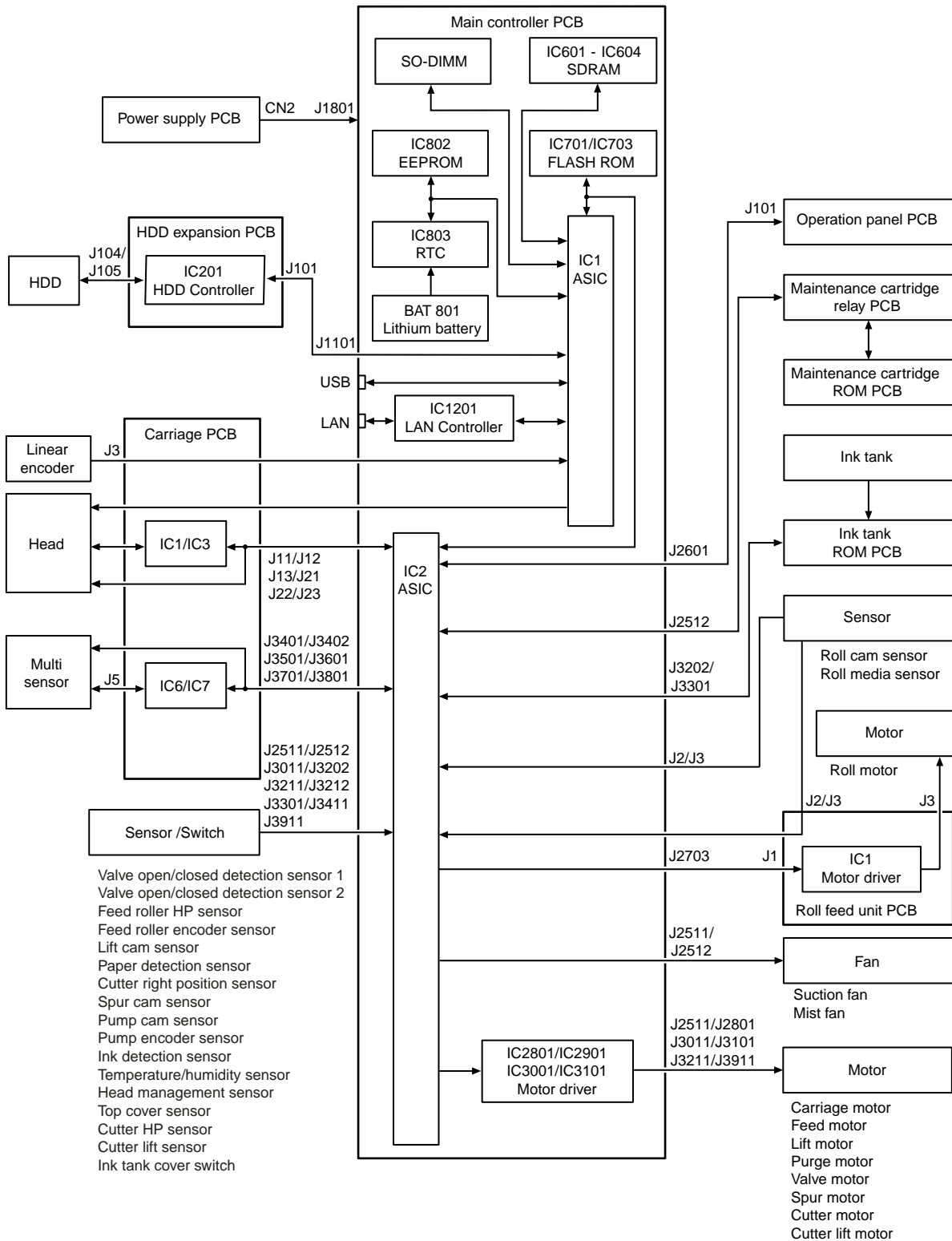


F-2-5

2.1.6 Printer Diagram

iPF6300S

Shown below is a printer diagram.

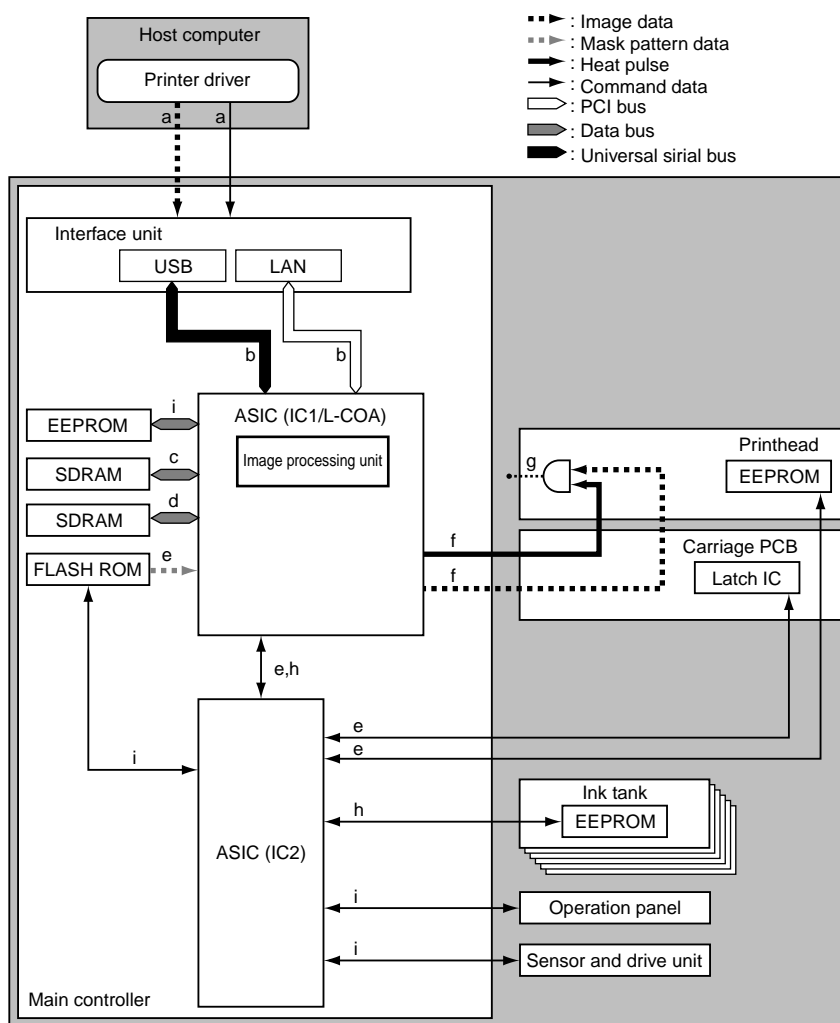


F-2-6

2.1.7 Print Signal Sequence

iPF6100 / iPF6200 / iPF6300 / iPF6350

The signal sequence from when the printer receives the print signals until printing starts is shown in Figure.



F-2-7

a) The printer driver on the host computer transmits print data, including command data, to the printer after compressing the image data, without resolution, color and 12-color binarization conversion.

To achieve high-quality image output, the image processing table data used for image data color conversion and binarization conversion are generated as command data to meet the Media Type and other specifications of the printer driver.

b) This printer receives print data from the individual interfaces on the main controller, transmitting the received print data to ASIC (IC1).
c) The main controller decompresses the print data transmitted to the ASIC and gets it through resolution, color and 12-color binarization conversion while loading the data into SDRAM from time to time.

It also converts the print data to 12-color binary equivalents of image and command data.

d) The ASIC (IC1) generates image data synthesized with mask data within the ASIC in sync with the discharge time while loading the data into SDRAM from time to time.

e) The ASIC (IC2) collects printhead information from EEPROM mounted on the printheads and the printer temperature from the latch IC on the carriage board and transmit them to the ASIC (IC1).

The ASIC (IC1) also receives mask pattern data from the firmware installed in flash ROM.

f) The ASIC (IC1) converts the image data synthesized with the mask pattern to data associated with the printhead information and the printer temperature, transmitting the data to the printheads as a print signal. It transmits heat pulses to the printheads at the same time to optimize head driving.

g) The printheads convert the received print signal from a serial signal to a parallel signal for each row of nozzles and ANDs it with the heat pulses for perform printing.

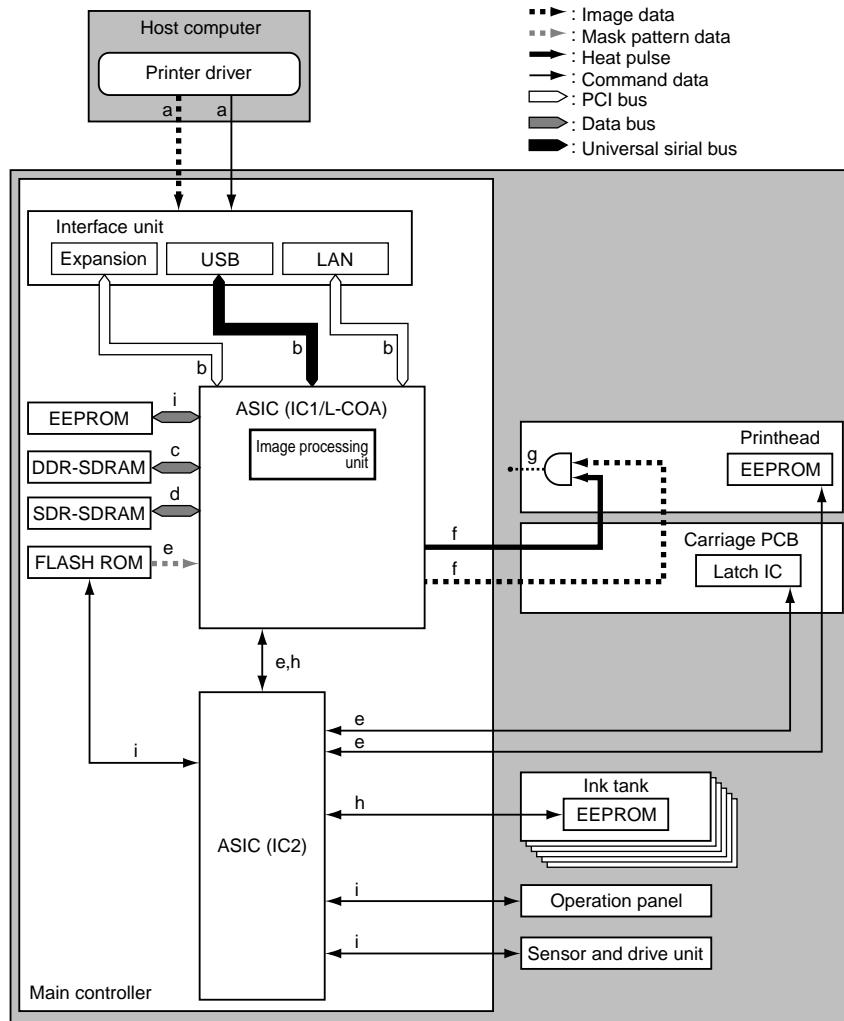
h) The ASIC (IC1) controls the general aspects of image processing and print drive control by detecting the status of the individual printer components with reference to the adjustment values stored in EEPROM. SDRAM is used as work memory.

i) The ASIC (IC2) controls the general aspects of drive control by controlling button actuations and message displays on the basis of the firmware installed in flash ROM.

2.1.8 Print Signal Sequence

iPF6000S

The signal sequence from when the printer receives the print signals until printing starts is shown in Figure.



F-2-8

a) The printer driver on the host computer transmits print data, including command data, to the printer after compressing the image data, without resolution, color and 8-color binarization conversion.

To achieve high-quality image output, the image processing table data used for image data color conversion and binarization conversion are generated as command data to meet the Media Type and other specifications of the printer driver.

b) This printer receives print data from the individual interfaces on the main controller, transmitting the received print data to ASIC (IC1).

c) The main controller decompresses the print data transmitted to the ASIC and gets it through resolution, color and 8-color binarization conversion while loading the data into DDR-SDRAM from time to time.

It also converts the print data to 8-color binary equivalents of image and command data.

d) The ASIC (IC1) generates image data synthesized with mask data within the ASIC in sync with the discharge time while loading the data into DDR-SDRAM from time to time.

e) The ASIC (IC2) collects printhead information from EEPROM mounted on the printheads and the printer temperature from the latch IC on the carriage board and transmit them to the ASIC (IC1).

The ASIC (IC1) also receives mask pattern data from the firmware installed in flash ROM.

f) The ASIC (IC1) converts the image data synthesized with the mask pattern to data associated with the printhead information and the printer temperature, transmitting the data to the printheads as a print signal. It transmits heat pulses to the printheads at the same time to optimize head driving.

g) The printheads convert the received print signal from a serial signal to a parallel signal for each row of nozzles and ANDs it with the heat pulses for perform printing.

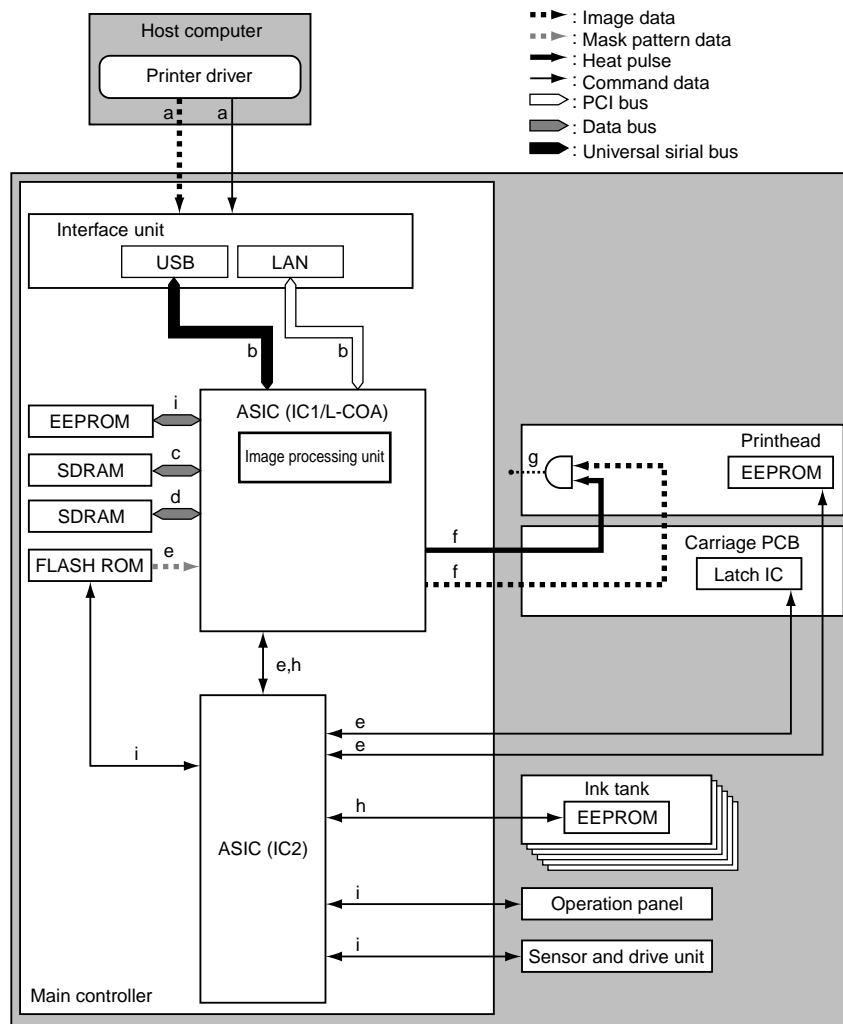
h) The ASIC (IC1) controls the general aspects of image processing and print drive control by detecting the status of the individual printer components with reference to the adjustment values stored in EEPROM. SDR-SDRAM is used as work memory.

i) The ASIC (IC2) controls the general aspects of drive control by controlling button actuations and message displays on the basis of the firmware installed in flash ROM.

2.1.9 Print Signal Sequence

iPF6300S

The signal sequence from when the printer receives the print signals until printing starts is shown in Figure.



F-2-9

a) The printer driver on the host computer transmits print data, including command data, to the printer after compressing the image data, without resolution, color and 8-color binarization conversion.

To achieve high-quality image output, the image processing table data used for image data color conversion and binarization conversion are generated as command data to meet the Media Type and other specifications of the printer driver.

b) This printer receives print data from the individual interfaces on the main controller, transmitting the received print data to ASIC (IC1).

c) The main controller decompresses the print data transmitted to the ASIC and gets it through resolution, color and 8-color binarization conversion while loading the data into SDRAM from time to time.

It also converts the print data to 12-color binary equivalents of image and command data.

d) The ASIC (IC1) generates image data synthesized with mask data within the ASIC in sync with the discharge time while loading the data into SDRAM from time to time.

e) The ASIC (IC2) collects printhead information from EEPROM mounted on the printheads and the printer temperature from the latch IC on the carriage board and transmit them to the ASIC (IC1).

The ASIC (IC1) also receives mask pattern data from the firmware installed in flash ROM.

f) The ASIC (IC1) converts the image data synthesized with the mask pattern to data associated with the printhead information and the printer temperature, transmitting the data to the printheads as a print signal. It transmits heat pulses to the printheads at the same time to optimize head driving.

g) The printheads convert the received print signal from a serial signal to a parallel signal for each row of nozzles and ANDs it with the heat pulses for perform printing.

h) The ASIC (IC1) controls the general aspects of image processing and print drive control by detecting the status of the individual printer components with reference to the adjustment values stored in EEPROM. SDRAM is used as work memory.

i) The ASIC (IC2) controls the general aspects of drive control by controlling button actuations and message displays on the basis of the firmware installed in flash ROM.

2.1.10 Print Driving

iPF6100 / iPF6200 / iPF6300 / iPF6350

Print and control signals are transferred via the carriage board to the printheads to discharge inks from the nozzle assembly at printing.

Each printhead has 12 trains of nozzles arranged in a zigzag pattern.

This printer uses two printheads arranged side by side.

(In installed state, from left to right, Y, PC, C, PGY, GY, BK, PM, M, MBK, R, G, B)

Print signals directed at each nozzle train are even-numbered nozzle data (Hx-x-DATA-x-EV) and odd-numbered nozzle data (Hx-x-DATA-x-OD). These are transferred in timing with a data transfer clock (Hx-CLK) and data latch pulses (Hx-LT).

The Heat Enable (Hx-x-HE-x) drive control signal enables inks to be discharged from the nozzles.

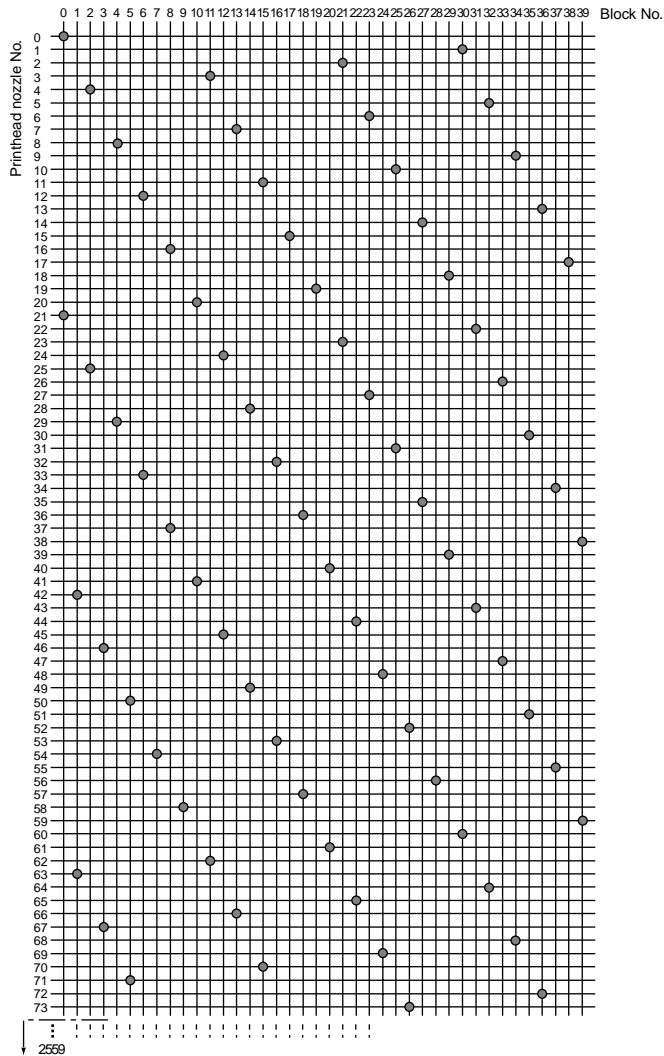
1. Pint drive control

Each train of nozzles in a printhead has 2,560 nozzles.

Ink discharge nozzles are selected split in 40-, 20- or 10-nozzle blocks according to the Block Enable information in the even-numbered nozzle data and odd-numbered nozzle data.

Each selected block of nozzles is impressed with a Heat Enable signal generated with variable pulse widths according to the head rank, head temperature and printer temperature for optimized ink discharges. The nozzles are driven by heater boards in the nozzles to discharge inks. Optimal nozzle blocks are selected according to the print path.

The diagram below illustrates the relationship between a 40-block nozzle and nozzles driven.



F-2-10

2. Print drive timing

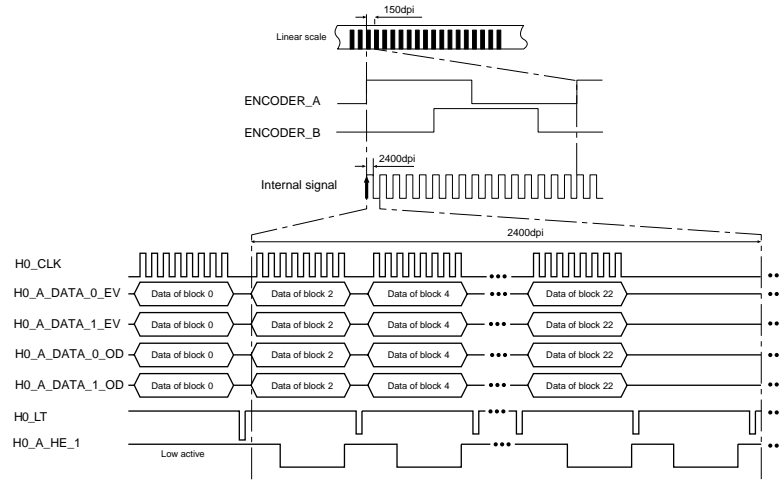
Each printhead houses 12 trains of nozzles, which share the same data transfer clock (Hx-CLK) and data latch pulses (Hx-LT). Even-numbered nozzle data (Hx-x-DATA-x-EV), odd-numbered nozzle data (Hx-x-DATA-x-OD) and the Heat Enable (Hx-x-HE-x) signal are generated for each nozzle train and controlled individually.

Printing is carried out in two ways through reciprocating motion of the carriage.

An encoder sensor mounted on the carriage generates a 150-dpi-pitched linear scale detection signal (ENCODER_A) and a signal (ENCODER_B) shifted 120 degrees in phase. The direction of carriage motion is detected from the status of the ENCODER_B signal relative to the leading edge of the ENCODER_A signal. The printhead is driven using a 2400-dpi timing signal (internal signal), which is generated by dividing the ENCODER_A signal detected at the 150 dpi timing into 16 equal sections.

Printing in the forward direction is triggered at the leading edge of the detection signal (ENCODER_A).

Printing in the backward direction is carried out the same way as printing in the forward direction but at the trailing edge of the detection signal (ENCODER_A), when the order of heated nozzles is reversed depending on the sequence of transfer of even-numbered nozzle data and odd-numbered nozzle data.



F-2-11

2.1.11 Print Driving

iPF6000S

Print and control signals are transferred via the carriage board to the printheads to discharge inks from the nozzle assembly at printing.

Each printhead has 12 trains of nozzles arranged in a zigzag pattern.

This printer uses two printheads arranged side by side.

(In installed state, from left to right, PC, C, PM, GY, MBK, M, Y, BK, GY, PM, C, PC)

Print signals directed at each nozzle train are even-numbered nozzle data (Hx-x-DATA-x-EV) and odd-numbered nozzle data (Hx-x-DATA-x-OD). These are transferred in timing with a data transfer clock (Hx-CLK) and data latch pulses (Hx-LT).

The Heat Enable (Hx-x-HE-x) drive control signal enables inks to be discharged from the nozzles.

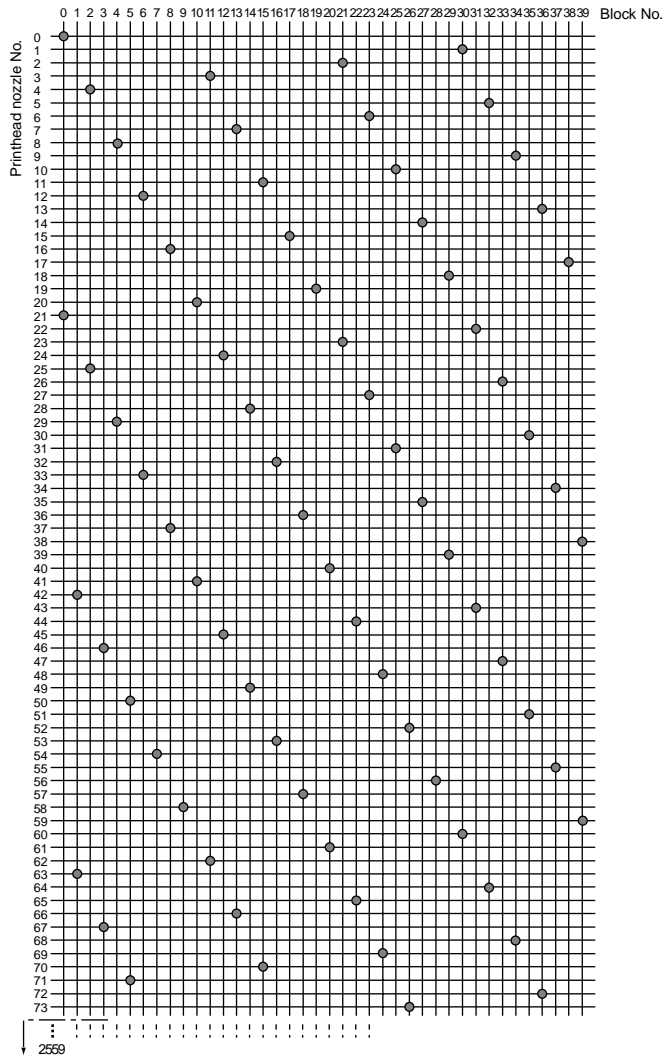
1. Pint drive control

Each train of nozzles in a printhead has 2,560 nozzles.

Ink discharge nozzles are selected split in 40-, 20- or 10-nozzle blocks according to the Block Enable information in the even-numbered nozzle data and odd-numbered nozzle data.

Each selected block of nozzles is impressed with a Heat Enable signal generated with variable pulse widths according to the head rank, head temperature and printer temperature for optimized ink discharges. The nozzles are driven by heater boards in the nozzles to discharge inks. Optimal nozzle blocks are selected according to the print path.

The diagram below illustrates the relationship between a 40-block nozzle and nozzles driven.



F-2-12

2. Print drive timing

Each printhead houses 12 trains of nozzles, which share the same data transfer clock (Hx-CLK) and data latch pulses (Hx-LT).

Even-numbered nozzle data (Hx-x-DATA-x-EV), odd-numbered nozzle data (Hx-x-DATA-x-OD) and the Heat Enable (Hx-x-HE-x) signal are generated for each nozzle train and controlled individually.

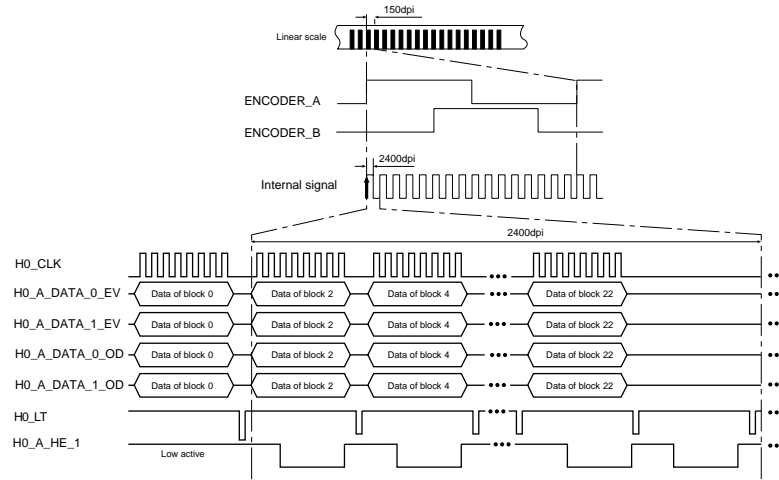
Printing is carried out in two ways through reciprocating motion of the carriage.

An encoder sensor mounted on the carriage generates a 150-dpi-pitched linear scale detection signal (ENCODER_A) and a signal (ENCODER_B) shifted 120 degrees in phase. The direction of carriage motion is detected from the status of the ENCODER_B signal relative to the leading edge of the ENCODER_A signal.

The printhead is driven using a 2400-dpi timing signal (internal signal), which is generated by dividing the ENCODER_A signal detected at the 150 dpi timing into 16 equal sections.

Printing in the forward direction is triggered at the leading edge of the detection signal (ENCODER_A).

Printing in the backward direction is carried out the same way as printing in the forward direction but at the trailing edge of the detection signal (ENCODER_A), when the order of heated nozzles is reversed depending on the sequence of transfer of even-numbered nozzle data and odd-numbered nozzle data.



F-2-13

2.1.12 Print Driving

iPF6300S

Print and control signals are transferred via the carriage board to the printheads to discharge inks from the nozzle assembly at printing.

Each printhead has 12 trains of nozzles arranged in a zigzag pattern.

This printer uses two printheads arranged side by side.

(In installed state, from left to right, PC, C, PM, GY, MBK, M, Y, BK, GY, PM, C, PC)

Print signals directed at each nozzle train are even-numbered nozzle data (Hx-x-DATA-x-EV) and odd-numbered nozzle data (Hx-x-DATA-x-OD). These are transferred in timing with a data transfer clock (Hx-CLK) and data latch pulses (Hx-LT).

The Heat Enable (Hx-x-HE-x) drive control signal enables inks to be discharged from the nozzles.

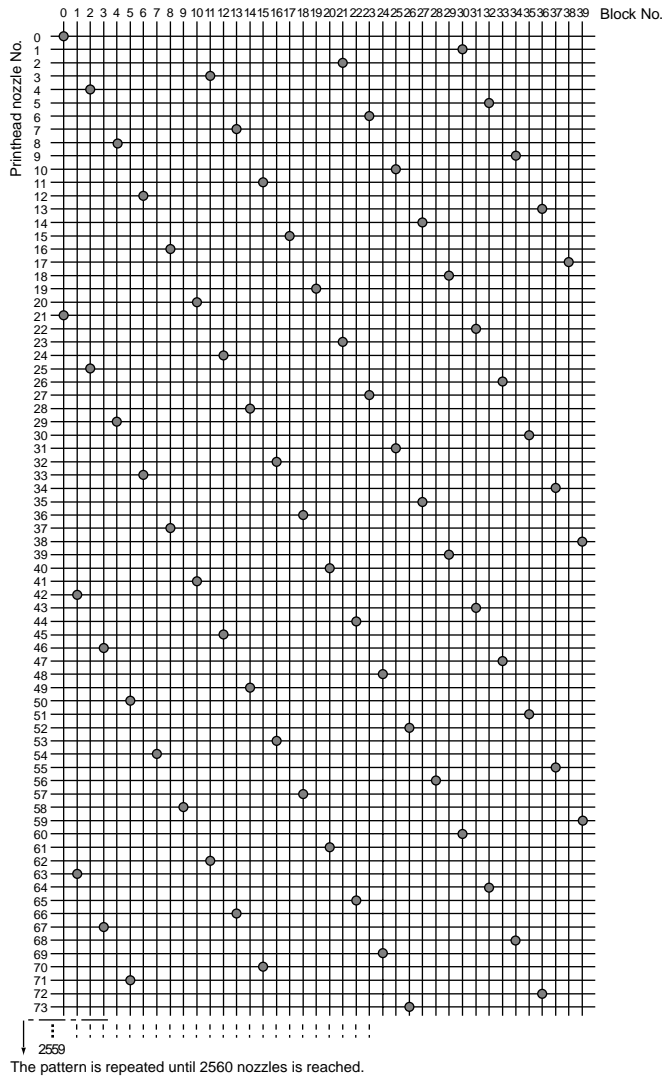
1. Pint drive control

Each train of nozzles in a printhead has 2,560 nozzles.

Ink discharge nozzles are selected split in 40-, 20- or 10-nozzle blocks according to the Block Enable information in the even-numbered nozzle data and odd-numbered nozzle data.

Each selected block of nozzles is impressed with a Heat Enable signal generated with variable pulse widths according to the head rank, head temperature and printer temperature for optimized ink discharges. The nozzles are driven by heater boards in the nozzles to discharge inks. Optimal nozzle blocks are selected according to the print path.

The diagram below illustrates the relationship between a 40-block nozzle and nozzles driven.



F-2-14

2. Print drive timing

Each printhead houses 12 trains of nozzles, which share the same data transfer clock (Hx-CLK) and data latch pulses (Hx-LT).

Even-numbered nozzle data (Hx-x-DATA-x-EV), odd-numbered nozzle data (Hx-x-DATA-x-OD) and the Heat Enable (Hx-x-HE-x) signal are generated for each nozzle train and controlled individually.

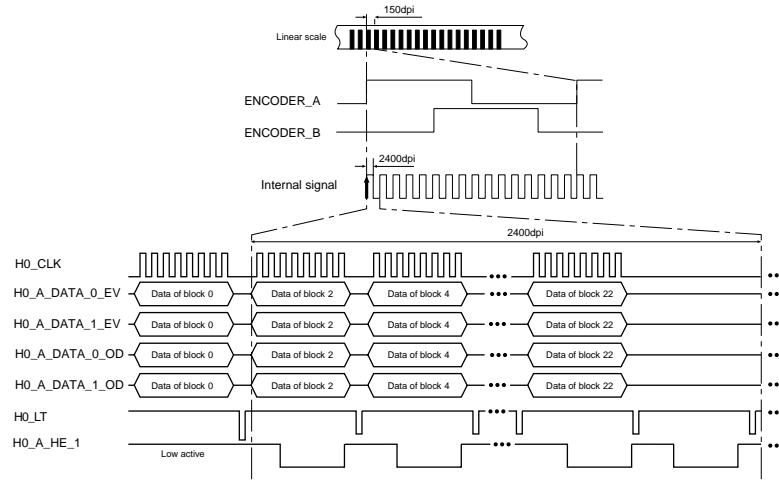
Printing is carried out in two ways through reciprocating motion of the carriage.

An encoder sensor mounted on the carriage generates a 150-dpi-pitched linear scale detection signal (ENCODER_A) and a signal (ENCODER_B) shifted 120 degrees in phase. The direction of carriage motion is detected from the status of the ENCODER_B signal relative to the leading edge of the ENCODER_A signal.

The printhead is driven using a 2400-dpi timing signal (internal signal), which is generated by dividing the ENCODER_A signal detected at the 150 dpi timing into 16 equal sections.

Printing in the forward direction is triggered at the leading edge of the detection signal (ENCODER_A).

Printing in the backward direction is carried out the same way as printing in the forward direction but at the trailing edge of the detection signal (ENCODER_A), when the order of heated nozzles is reversed depending on the sequence of transfer of even-numbered nozzle data and odd-numbered nozzle data.



F-2-15

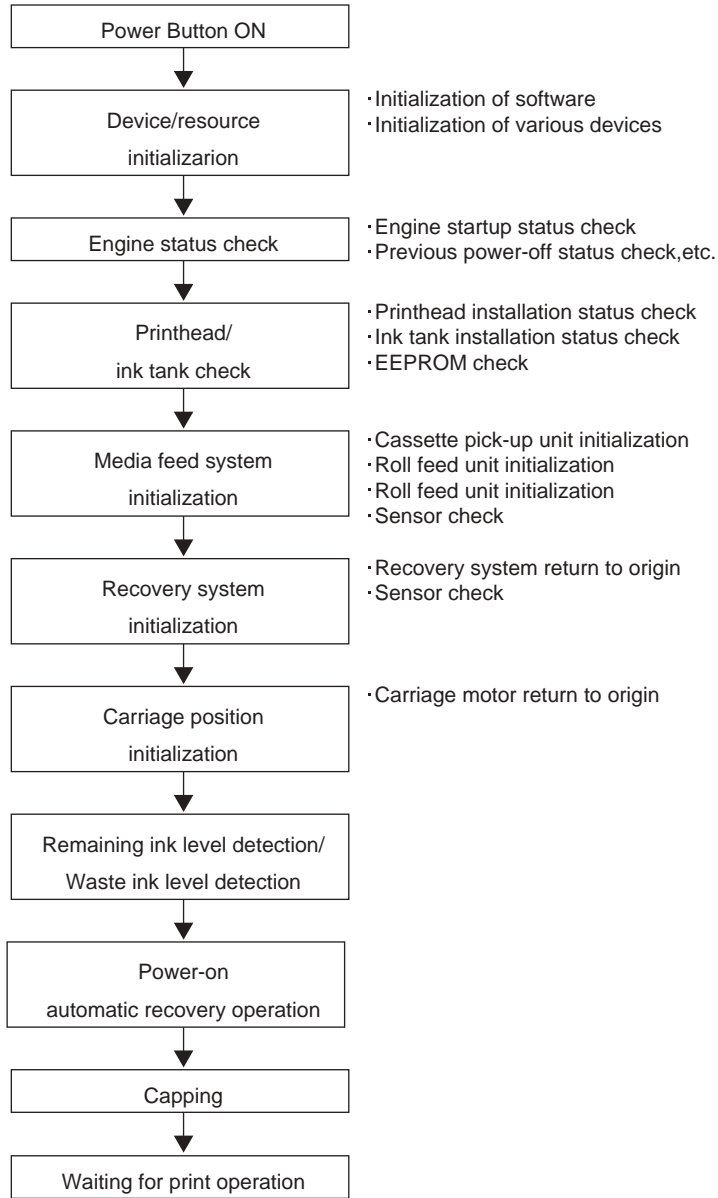
2.2 Firmware

2.2.1 Operation Sequence at Power-on

iPF6100 / iPF6200 / iPF6000S

Shown below is the flowchart of the initialization sequence from the moment the power is turned on to the moment the printer enters the online state. The time required for initialization is less than 1 minute*.

* This time does not include the time required for supplying ink and cleaning which takes place after the printer has been left unused for an extended period of time.



F-2-16

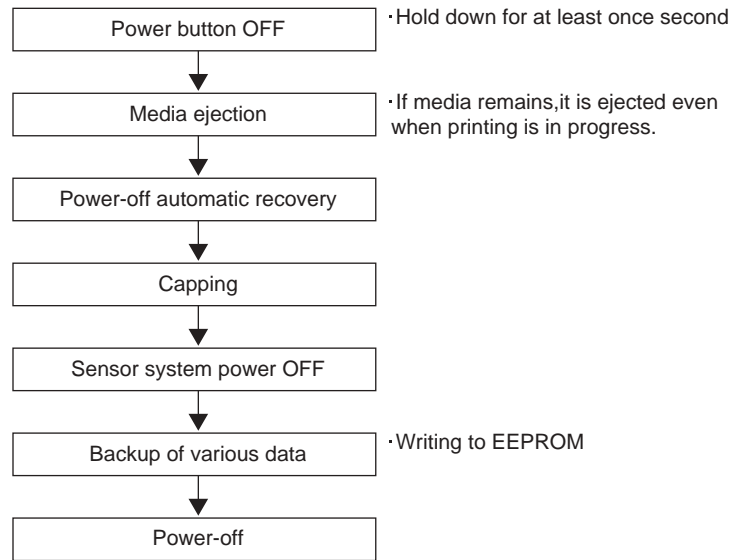
2.2.2 Operation Sequence at Power-off

iPF6100 / iPF6200 / iPF6000S

Turning off the power cuts off the voltage to all drive systems. At this time, the firmware starts the power-off sequence as shown below.



This printer immediately suspends all operations in progress and stops whenever the power cord is unplugged or a cover such as the top cover is opened. In this case, the printer may stop without capping the print head. If the power was turned on by unplugging the power cord, plug the power cord into the outlet, turn on the power again so that the printer enters the online or offline state, and then press the Power button to turn off the power.



F-2-17

2.2.3 Print Control

iPF6100 / iPF6200 / iPF6000S

1. Print mode

This printer is capable of fast, high-quality printing without blur and non-uniform density by changing the carriage operation, media feeding, other printing methods according to the selected media type, print quality, print data and so on.

Printing is performed for each color using a maximum of 16 paths in each print mode according to the selected print quality.

This reduces density irregularities caused by the variation in the amounts of ink discharged from individual nozzles. In addition, it shifts the printing timing so that the current ink layer is nearly fixed before the next ink layer is applied, thus minimizing bleeding.

Even in the same mode, the printer operates in a different way depending on the media setting made using the printer driver.

a) Draft mode

In the draft mode, image data is thinned out and a single band (equivalent to the width of a nozzle array) is printed using one or two paths.

To use this mode, select "Draft" under "Print Quality" in the printer driver.

b) Standard mode

In the standard mode, a single band (equivalent to the width of a nozzle array) is printed using 4-8 (4, 6, or 8) paths.

To use this mode, select "Standard" under "Print Quality" in the printer driver.

c) High quality mode

In the high quality mode, a single band is printed using 8 or 12 paths.

To use this mode, select "High" under "Print Quality" in the printer driver.

d) Highest quality mode

In the highest quality mode, a single band is printed using 12 or 16 paths.

To use this mode, select "Highest" under "Print Quality" in the printer driver.

T-2-1

Printing Modes

T-2-2

Media Type		Print Priority	Print Quality	Print-Pass	Printing direction	Print Resolution (dpi)	Used BK ink
Plain Paper/ Recycled Paper	Plain Paper	Office Document	Standard	4	Bi-directional	1200x1200	MBK
		Line Document/ Text	Draft	2	Bi-directional	1200x1200	MBK
			Standard	4	Bi-directional	1200x1200	MBK
		Image	Draft	2	Bi-directional	1200x1200	MBK
			Standard	4	Bi-directional	1200x1200	MBK
	High		8	Bi-directional	2400x1200	MBK	
	Plain Paper (High Quality)	Office Document	Standard	4	Bi-directional	1200x1200	MBK
		Line Document/ Text	Draft	2	Bi-directional	1200x1200	MBK
			Standard	4	Bi-directional	1200x1200	MBK
		Image	Draft	2	Bi-directional	1200x1200	MBK
			Standard	4	Bi-directional	1200x1200	MBK
	High		8	Bi-directional	2400x1200	MBK	
	Plain Paper (High Grade)	Office Document	Standard	4	Bi-directional	1200x1200	MBK
		Line Document/ Text	Draft	2	Bi-directional	1200x1200	MBK
			Standard	4	Bi-directional	1200x1200	MBK
		Image	Draft	2	Bi-directional	1200x1200	MBK
			Standard	4	Bi-directional	1200x1200	MBK
	High		8	Bi-directional	2400x1200	MBK	
	Economy Bond Paper	Office Document	Standard	4	Bi-directional	1200x1200	MBK
		Line Document/ Text	Draft	2	Bi-directional	1200x1200	MBK
			Standard	4	Bi-directional	1200x1200	MBK
		Image	Draft	2	Bi-directional	1200x1200	MBK
			Standard	4	Bi-directional	1200x1200	MBK
	High		8	Bi-directional	2400x1200	MBK	
	Universal Bond Paper	Office Document	Standard	4	Bi-directional	1200x1200	MBK
		Line Document/ Text	Draft	2	Bi-directional	1200x1200	MBK
			Standard	4	Bi-directional	1200x1200	MBK
Image		Draft	2	Bi-directional	1200x1200	MBK	
		Standard	4	Bi-directional	1200x1200	MBK	
	High	8	Bi-directional	2400x1200	MBK		
Standard Paper 1569B 80g	Office Document	Standard	4	Bi-directional	1200x1200	MBK	
	Line Document/ Text	Draft	2	Bi-directional	1200x1200	MBK	
		Standard	4	Bi-directional	1200x1200	MBK	
	Image	Draft	2	Bi-directional	1200x1200	MBK	
		Standard	4	Bi-directional	1200x1200	MBK	
High		8	Bi-directional	2400x1200	MBK		
Standard Paper 1570B 90g	Office Document	Standard	4	Bi-directional	1200x1200	MBK	
	Line Document/ Text	Draft	2	Bi-directional	1200x1200	MBK	
		Standard	4	Bi-directional	1200x1200	MBK	
	Image	Draft	2	Bi-directional	1200x1200	MBK	
		Standard	4	Bi-directional	1200x1200	MBK	
High		8	Bi-directional	2400x1200	MBK		

Media Type		Print Priority	Print Quality	Print-Pass	Printing direction	Print Resolution (dpi)	Used BK ink
Coated Paper	Coated Paper	Image	Standard	4	Bi-directional	1200x1200	MBK
			High	8	Bi-directional	2400x1200	MBK
			Highest	12	Bi-directional	2400x1200	MBK
	Heavyweight Coated Paper	Image	Standard	4	Bi-directional	1200x1200	MBK
			High	8	Bi-directional	2400x1200	MBK
			Highest	12	Bi-directional	2400x1200	MBK
	High Resolution Paper	Image	Standard	4	Bi-directional	1200x1200	MBK
			High	8	Bi-directional	2400x1200	MBK
			Highest	12	Bi-directional	2400x1200	MBK
	Premium Matte Paper	Image	Standard	8	Bi-directional	1200x1200	MBK
			High	12	Bi-directional	2400x1200	MBK
			Highest	16	Bi-directional	2400x1200	MBK
	Matte Photo Paper	Image	Standard	8	Bi-directional	1200x1200	MBK
			High	12	Bi-directional	2400x1200	MBK
			Highest	16	Bi-directional	2400x1200	MBK
	Extra Heavyweight Coated Paper	Image	Standard	4	Bi-directional	1200x1200	MBK
			High	8	Bi-directional	2400x1200	MBK
			Highest	12	Bi-directional	2400x1200	MBK
	Recycled Coated Paper	Image	Standard	4	Bi-directional	1200x1200	MBK
			High	8	Bi-directional	2400x1200	MBK
			Highest	12	Bi-directional	2400x1200	MBK
	Premium Coated Paper	Image	Standard	4	Bi-directional	1200x1200	MBK
			High	8	Bi-directional	2400x1200	MBK
			Highest	12	Bi-directional	2400x1200	MBK
	LightWeight Coated paper	Image	Standard	4	Bi-directional	1200x1200	MBK
			High	8	Bi-directional	2400x1200	MBK
			Highest	12	Bi-directional	2400x1200	MBK
	High Resolution Barrier Paper	Image	Standard	4	Bi-directional	1200x1200	MBK
			High	8	Bi-directional	2400x1200	MBK
			Highest	12	Bi-directional	2400x1200	MBK
	Matt Coated Paper	Image	Standard	4	Bi-directional	1200x1200	MBK
			High	8	Bi-directional	2400x1200	MBK
			Highest	12	Bi-directional	2400x1200	MBK
	Extra Matt Coated Paper	Image	Standard	4	Bi-directional	1200x1200	MBK
			High	8	Bi-directional	2400x1200	MBK
			Highest	12	Bi-directional	2400x1200	MBK
Opaque paper	Image	Standard	4	Bi-directional	1200x1200	MBK	
		High	8	Bi-directional	2400x1200	MBK	
		Highest	12	Bi-directional	2400x1200	MBK	
Matt Coated Paper	Image	Standard	4	Bi-directional	1200x1200	MBK	
		High	8	Bi-directional	2400x1200	MBK	
		Highest	12	Bi-directional	2400x1200	MBK	
Photo Realistic Paper	Image	Standard	4	Bi-directional	1200x1200	MBK	
		High	8	Bi-directional	2400x1200	MBK	
		Highest	12	Bi-directional	2400x1200	MBK	

Media Type		Print Priority	Print Quality	Print-Pass	Printing direction	Print Resolution (dpi)	Used BK ink
Photo Paper	Glossy Photo Paper	Image	Standard	8	Bi-directional	1200x1200	PBK
			High	12	Bi-directional	2400x1200	PBK
			Highest	16	Bi-directional	2400x1200	PBK
	Semi-Glossy Photo Paper	Image	Standard	8	Bi-directional	1200x1200	PBK
			High	12	Bi-directional	2400x1200	PBK
			Highest	16	Bi-directional	2400x1200	PBK
	Photo Paper Plus	Image	Standard	8	Bi-directional	1200x1200	PBK
			High	12	Bi-directional	2400x1200	PBK
			Highest	16	Bi-directional	2400x1200	PBK
	Photo Paper Plus Semi-Gloss	Image	Standard	8	Bi-directional	1200x1200	PBK
			High	12	Bi-directional	2400x1200	PBK
			Highest	16	Bi-directional	2400x1200	PBK
	Heavyweight Glossy Photo Paper 2	Image	Standard	8	Bi-directional	1200x1200	PBK
			High	12	Bi-directional	2400x1200	PBK
			Highest	16	Bi-directional	2400x1200	PBK
	Heavywght SemiGlos Photo Paper 2	Image	Standard	8	Bi-directional	1200x1200	PBK
			High	12	Bi-directional	2400x1200	PBK
			Highest	16	Bi-directional	2400x1200	PBK
	Poster Semi-Glossy Photo Paper	Image	Standard	8	Bi-directional	1200x1200	PBK
			High	12	Bi-directional	2400x1200	PBK
			Highest	16	Bi-directional	2400x1200	PBK
	Premium RC Photo Luster	Image	Standard	8	Bi-directional	1200x1200	PBK
			High	12	Bi-directional	2400x1200	PBK
			Highest	16	Bi-directional	2400x1200	PBK
	Instant Dry Papers Glossy 200g	Image	Standard	8	Bi-directional	1200x1200	PBK
			High	12	Bi-directional	2400x1200	PBK
			Highest	16	Bi-directional	2400x1200	PBK
	Instant Dry Papers Satin 200g	Image	Standard	8	Bi-directional	1200x1200	PBK
			High	12	Bi-directional	2400x1200	PBK
			Highest	16	Bi-directional	2400x1200	PBK
	Photo paper High Glossy 250g	Image	Standard	8	Bi-directional	1200x1200	PBK
			High	12	Bi-directional	2400x1200	PBK
			Highest	16	Bi-directional	2400x1200	PBK
	Photo paper Semi Matt 250g	Image	Standard	8	Bi-directional	1200x1200	PBK
			High	12	Bi-directional	2400x1200	PBK
			Highest	16	Bi-directional	2400x1200	PBK
Photo paper Satin 240g	Image	Standard	8	Bi-directional	1200x1200	PBK	
		High	12	Bi-directional	2400x1200	PBK	
		Highest	16	Bi-directional	2400x1200	PBK	
Photo paper Pearl 260g	Image	Standard	8	Bi-directional	1200x1200	PBK	
		High	12	Bi-directional	2400x1200	PBK	
		Highest	16	Bi-directional	2400x1200	PBK	

Media Type		Print Priority	Print Quality	Print-Pass	Printing direction	Print Resolution (dpi)	Used BK ink
Art Paper	Fine Art Photo	Image	Standard	8	Bi-directional	1200x1200	MBK
			High	12	Bi-directional	2400x1200	MBK
			Highest	16	Bi-directional	2400x1200	MBK
	Fine Art Heavyweight Photo	Image	Standard	8	Bi-directional	1200x1200	MBK
			High	12	Bi-directional	2400x1200	MBK
			Highest	16	Bi-directional	2400x1200	MBK
	Fine Art Textured	Image	Standard	8	Bi-directional	1200x1200	MBK
			High	12	Bi-directional	2400x1200	MBK
			Highest	16	Bi-directional	2400x1200	MBK
	Fine Art Block Print	Image	Standard	8	Bi-directional	1200x1200	MBK
			High	12	Bi-directional	2400x1200	MBK
			Highest	16	Bi-directional	2400x1200	MBK
	Fine Art Watercolor	Image	Standard	8	Bi-directional	1200x1200	MBK
			High	12	Bi-directional	2400x1200	MBK
			Highest	16	Bi-directional	2400x1200	MBK
	Canvas Matte 2	Image	Standard	8	Bi-directional	1200x1200	MBK
			High	12	Bi-directional	2400x1200	MBK
			Highest	16	Bi-directional	2400x1200	MBK
	Japanese Paper Washi	Image	Standard	8	Bi-directional	1200x1200	MBK
			High	12	Bi-directional	2400x1200	MBK
			Highest	16	Bi-directional	2400x1200	MBK
	Graphic Matte Canvas	Image	Standard	8	Bi-directional	1200x1200	MBK
			High	12	Bi-directional	2400x1200	MBK
			Highest	16	Bi-directional	2400x1200	MBK
	Art paper smooth 225g	Image	Standard	8	Bi-directional	1200x1200	MBK
			High	12	Bi-directional	2400x1200	MBK
			Highest	16	Bi-directional	2400x1200	MBK
	Art paper embossed 225g	Image	Standard	8	Bi-directional	1200x1200	MBK
			High	12	Bi-directional	2400x1200	MBK
			Highest	16	Bi-directional	2400x1200	MBK
Art Paper Extra Smooth 250g	Image	Standard	8	Bi-directional	1200x1200	MBK	
		High	12	Bi-directional	2400x1200	MBK	
		Highest	16	Bi-directional	2400x1200	MBK	
Water resistant paper Art Canvas	Image	Standard	8	Bi-directional	1200x1200	MBK	
		High	12	Bi-directional	2400x1200	MBK	
		Highest	16	Bi-directional	2400x1200	MBK	
Proofing Paper	Proofing Paper	Image	Standard	8	Bi-directional	1200x1200	PBK
			High	12	Bi-directional	2400x1200	PBK
			Highest	16	Bi-directional	2400x1200	PBK
	Professional Proof and Photo Glossy 195g	Image	Standard	8	Bi-directional	1200x1200	PBK
			High	12	Bi-directional	2400x1200	PBK
			Highest	16	Bi-directional	2400x1200	PBK
	Professional Proof and Photo Semiglossy 195g	Image	Standard	8	Bi-directional	1200x1200	PBK
			High	12	Bi-directional	2400x1200	PBK
			Highest	16	Bi-directional	2400x1200	PBK
	Professional Proof and Photo Semigloss 255g	Image	Standard	8	Bi-directional	1200x1200	PBK
			High	12	Bi-directional	2400x1200	PBK
			Highest	16	Bi-directional	2400x1200	PBK
Film Paper	Backprint Film	Image	Standard	8	Bi-directional	1200x1200	PBK
			High	12	Bi-directional	2400x1200	PBK
			Highest	16	Bi-directional	2400x1200	PBK
	Backlit Film	Image	Standard	8	Bi-directional	1200x1200	MBK
			High	12	Bi-directional	2400x1200	MBK
			Highest	16	Bi-directional	2400x1200	MBK
	Pop-up Gloss Film	Image	Standard	8	Bi-directional	2400x1200	PBK
			High	16	Bi-directional	2400x1200	PBK
	Universal Opaque White Film	Image	Standard	8	Bi-directional	2400x1200	PBK
			High	16	Bi-directional	2400x1200	PBK
	Outdoor Backlit	Image	Standard	8	Bi-directional	1200x1200	MBK
			High	12	Bi-directional	2400x1200	MBK
			Highest	16	Bi-directional	2400x1200	MBK

Media Type		Print Priority	Print Quality	Print-Pass	Printing direction	Print Resolution (dpi)	Used BK ink
Mat Film Paper	Scrim Banner 370g	Image	Standard	6	Bi-directional	1200x1200	MBK
			High	8	Bi-directional	2400x1200	MBK
			Highest	16	Bi-directional	2400x1200	MBK
	Adhesive Matt Stretch Vinyl	Image	Standard	6	Bi-directional	1200x1200	MBK
			High	8	Bi-directional	2400x1200	MBK
			Highest	16	Bi-directional	2400x1200	MBK
Thin Fabric Banner	Thin Fabric Banner 2	Image	Standard	6	Bi-directional	1200x1200	MBK
			High	8	Bi-directional	2400x1200	MBK
			Highest	16	Bi-directional	2400x1200	MBK
	Flame-Resistant Cloth	Image	Standard	6	Bi-directional	1200x1200	MBK
			High	8	Bi-directional	2400x1200	MBK
			Highest	16	Bi-directional	2400x1200	MBK
Synthetic Paper	Synthetic Paper	Image	Standard	6	Bi-directional	1200x1200	MBK
			High	8	Bi-directional	2400x1200	MBK
			Highest	16	Bi-directional	2400x1200	MBK
	Adhesive Synthetic Paper	Image	Standard	6	Bi-directional	1200x1200	MBK
			High	8	Bi-directional	2400x1200	MBK
			Highest	16	Bi-directional	2400x1200	MBK
	Outdoor Polypropylene (Durable Banner)	Image	Standard	6	Bi-directional	1200x1200	MBK
			High	8	Bi-directional	2400x1200	MBK
			Highest	16	Bi-directional	2400x1200	MBK
Adhesive Matt Paper	High Resolution Graphic paper Self ADH	Image	Standard	6	Bi-directional	1200x1200	MBK
			High	8	Bi-directional	2400x1200	MBK
			Highest	16	Bi-directional	2400x1200	MBK
Board	POP Board	Image	Standard	6	Bi-directional	1200x1200	MBK
			High	8	Bi-directional	2400x1200	MBK
			Highest	16	Bi-directional	2400x1200	MBK
CAD	CAD Tracing Paper	Line Document/ Text	Draft	2	Bi-directional	1200x1200	MBK
			Standard	4	Bi-directional	1200x1200	MBK
			High	8	Bi-directional	2400x1200	MBK
	CAD Translucent Matte Film	Line Document/ Text	Draft	2	Bi-directional	1200x1200	MBK
			Standard	4	Bi-directional	1200x1200	MBK
			High	8	Bi-directional	2400x1200	MBK
Special	Special 1	Image	Standard	8	Bi-directional	1200x1200	PBK
			High	12	Bi-directional	2400x1200	PBK
			Highest	16	Bi-directional	2400x1200	PBK
	Special 2	Image	Standard	8	Bi-directional	1200x1200	PBK
			High	12	Bi-directional	2400x1200	PBK
			Highest	16	Bi-directional	2400x1200	PBK
	Special 3	Image	Standard	8	Bi-directional	1200x1200	PBK
			High	12	Bi-directional	2400x1200	PBK
			Highest	16	Bi-directional	2400x1200	PBK
	Special 4	Image	Standard	8	Bi-directional	1200x1200	PBK
			High	12	Bi-directional	2400x1200	PBK
			Highest	16	Bi-directional	2400x1200	PBK
	Special 5	Image	Standard	8	Bi-directional	1200x1200	PBK
			High	12	Bi-directional	2400x1200	PBK
			Highest	16	Bi-directional	2400x1200	PBK
	Special 6	Image	Standard	8	Bi-directional	1200x1200	MBK
			High	12	Bi-directional	2400x1200	MBK
			Highest	16	Bi-directional	2400x1200	MBK
	Special 7	Image	Standard	8	Bi-directional	1200x1200	MBK
			High	12	Bi-directional	2400x1200	MBK
			Highest	16	Bi-directional	2400x1200	MBK
	Special 8	Image	Standard	8	Bi-directional	1200x1200	MBK
			High	12	Bi-directional	2400x1200	MBK
			Highest	16	Bi-directional	2400x1200	MBK
	Special 9	Image	Standard	8	Bi-directional	1200x1200	MBK
			High	12	Bi-directional	2400x1200	MBK
			Highest	16	Bi-directional	2400x1200	MBK
	Special 10	Image	Standard	8	Bi-directional	1200x1200	MBK
			High	12	Bi-directional	2400x1200	MBK
			Highest	16	Bi-directional	2400x1200	MBK

2.2.4 Print Position Adjustment Function

iPF6100 / iPF6200 / iPF6000S / iPF6300 / iPF6350 / iPF6300S

This printer has a printing position adjusting function to adjust the lateral and longitudinal printing positions, the bidirectional printing position of the printhead mounted on the carriage, and the media feed amount.

The printing position can be adjusted in two ways: "automatic adjustment" by which the multi sensor installed at the lower left of the carriage reads the printing position adjusting pattern and "manual adjustment" by which a print position adjusting pattern is printed with the printing conditions changed little by little to allow the user to enter the visually checked adjustment value from the operation panel.

Printing position adjustment requires A4-size or larger roll media or cut sheet.

2.2.5 Head Management

iPF6100 / iPF6200 / iPF6000S / iPF6300 / iPF6350 / iPF6300S

This printer has a nozzle check function to detect any non-discharging nozzle. When a non-discharging nozzle is detected, the printer performs the print head cleaning operation. If the problem persists after completion of the print head cleaning operation, the non-discharged nozzles are automatically backed up by other nozzles.

2.2.6 Printhead Overheating Protection Control

iPF6100 / iPF6200 / iPF6000S / iPF6300 / iPF6350 / iPF6300S

This printer performs printhead overheating protection control when an abnormally high temperature is detected in the printhead.

The printhead can overheat, for instance, when the print operation continues for some time with no ink supplied to the nozzles.

The overheating protection control function prevents a printhead nozzle from becoming clogged or damaged due to excessive heat.

Overheating protection control is performed based on the temperatures detected by the head temperature sensors in the nozzle arrays. If overheating is detected in a single nozzle array, overheating protection control is performed at either of the following levels according to the temperature.

Protection level 1:

If the printhead temperature sensor detects a temperature above the limit, the carriage stops at the scan end position printer in the direction of travel according to the carriage's scan status.

Then, wait control is performed to allow the printhead to cool naturally. When the printhead temperature drops below the prescribed value or 30 seconds have lapsed since detection of the abnormal temperature, printing resumes.

Protection level 2:

When the head temperature sensor detects an abnormally high temperature, printing stops immediately, the carriage is moved to the home position, and the printhead is capped. In this case, an error code is shown on the display.

2.2.7 Pause between Pages

iPF6100 / iPF6200 / iPF6000S / iPF6300 / iPF6350 / iPF6300S

To prevent ink blots from forming, this printer has a "pause between pages" function to hang down the printed paper from the platen to dry it and delivers it after lapse of the specified wait time.

The user can set the wait time using the printer drive. This function is particularly useful for printing on film-type sheets that requires extra long time to dry.

For borderless printing, 30 seconds of drying time is automatically set.

2.2.8 White Raster Skip

iPF6100 / iPF6200 / iPF6000S / iPF6300 / iPF6350 / iPF6300S

To improve the printing throughput, this printer has a white raster skip function to skip the carriage scan operation for continuous blank segments in print data.

2.2.9 Sleep Mode

iPF6100 / iPF6200 / iPF6000S / iPF6300 / iPF6350 / iPF6300S

This printer has a Sleep mode to reduce the standby power.

The printer automatically enters the Sleep mode (Power Save mode) when neither user operation nor data reception occurs for a preset period of time in the online or offline mode.

The printer wakes from the Sleep mode when the user presses any button on the operation panel or data is received from the host computer.

The time until the printer enters the Sleep mode can be changed from the operation panel. (Default: 5 minutes)

2.2.10 Hard Disk Drive

iPF6200 / iPF6000S / iPF6350 / iPF6300S

This printer features a hard disk drive, which provides the following functions.

- Early release of the host computer
- Error recovery
- Job preservation
- Preserved job print
- Job queue handling

1) Early release of the host computer

Each print job received from the host computer is preserved to the hard disk drive attached to the printer, so the printer can proceed with independent printing, releasing the host computer before the print job completes.

2) Error recovery

If a print job aborts as a result of any print problem, such as a paper jam or insufficient paper, the printer reloads the print job stored on the hard disk so it can resume

the print job without having to retransmit the job from the host computer to it.

3) Job preservation

Print jobs are in the common box, a place of temporary data storage, and in the personal box, a place of permanent data storage.

Normal print jobs are stored in the common box as they are received. Due to the limited hard disk space available, jobs stored in the common box are deleted from the oldest one in sequence.

Print jobs can be simply stored in the personal box without printing. Print jobs stored in the common box can be moved to the personal box.

4) Preserved job handling

Print jobs stored in the personal box or common box can be printed from the operation panel.

5) Job queue handling

Multiple jobs queued for print can be handled, including the raising priority order of selected jobs in the queue or canceling selected print jobs.

2.3 Printer Mechanical System

2.3.1 Outline

2.3.1.1 Outline

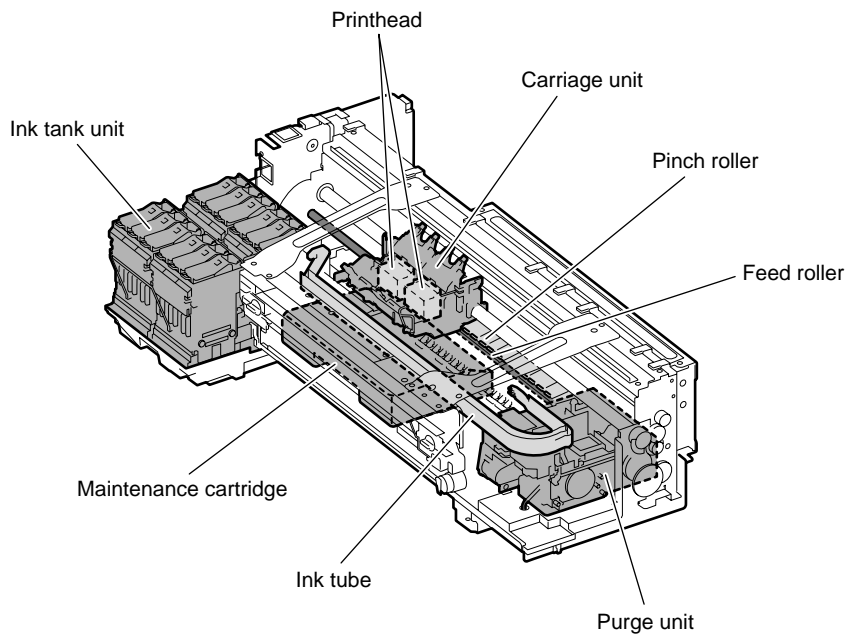
iPF6100 / iPF6200 / iPF6000S / iPF6300 / iPF6350 / iPF6300S

The printer mechanism can be broadly divided into two major components: the ink passage and paper path.

The ink passage consists of the ink tank, the carriage unit having the printhead, the purge unit, and the maintenance cartridge unit which are used to supply, circulate, and suck ink.

The paper path consists of the roll feed unit, paper feed unit to support three types of media feeding, transport, and ejection.

This section provides an overview of these mechanical components.



F-2-18

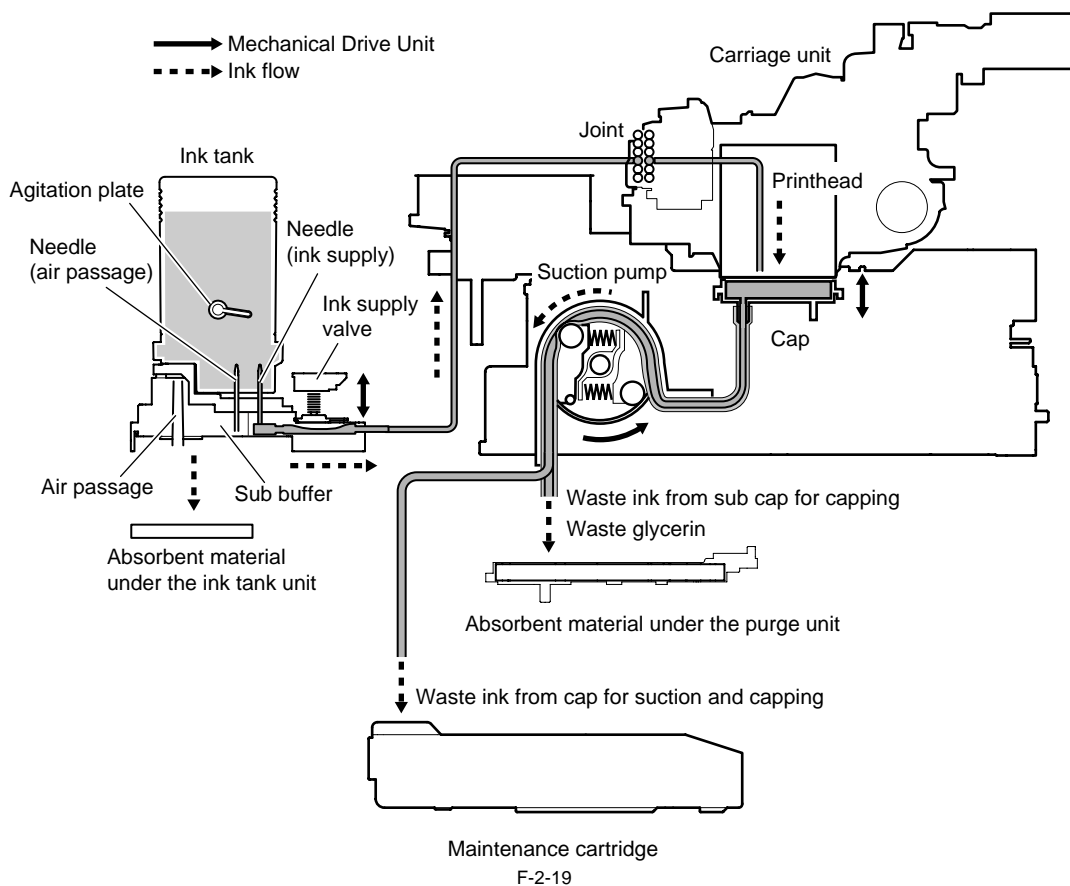
2.3.2 Ink Passage

2.3.2.1 Ink Passage

2.3.2.1.1 Overview of Ink Passage

iPF6100 / iPF6200 / iPF6000S / iPF6300 / iPF6350 / iPF6300S

The ink passage consists of ink tanks, printhead, cap, waste ink collection unit, ink tubes for connecting the mechanical components, and an ink suction pump which is operated to suck ink. These components are used to supply, circulate, and suck ink. A schematic diagram of the ink passage (for one color) and the ink flow are shown below.



a) Ink supply from ink tank to ink supply valve

The ink tank contains ink to be supplied to the printhead. Ink flow from the ink tank to the ink tank supply valve due to the fluid level difference.

b) Ink flow from ink tank to sub-buffer

Ink flows from the ink tank to the sub-buffer due to the fluid level difference, and air enters the ink tank through the air passage of the sub-buffer, maintaining the pressure inside the ink tank constant. If the ink in the sub-buffer exceeds the predetermined level, the excessive ink flows to the absorbent material under the ink tank.

c) Ink supply from ink supply valve to printhead

Ink is supplied from the ink tank to the printhead by opening the ink supply valve, capping the head, and operating the suction pump. The ink sucked from the caps flows to the maintenance cartridge.

d) Ink supply during printing

During printing, the ink supply valve is held open to allow ink to flow from the ink tank to the printhead constantly due to the negative pressure generated by discharging of ink. The waste ink used for printhead cleaning and borderless printing flows to the waste ink absorbent materials under the maintenance cartridge in addition to the waste ink box.



If all of ink passages are opened (no ink tank is installed, the ink supply valve is opened, and the printhead fixer lever is opened) when the ink tube is filled with ink, the ink in the ink tube may reverse-flow due to the fluid level difference and ink may leak from the hollow needle of the ink tank. Do not open all of the ink passages at the same time when the ink tube is filled with ink.

e) Agitation of ink in the ink tank

Ink in the ink tank is agitated to prevent precipitation of pigment-based ink in the ink tank. This function is implemented by reverse-flowing ink to the ink tank by opening and closing the supply valve in succession. Inside the ink tank is provided with an agitation plate to assist agitation of ink. (The agitation plate is also provided in the

- Operation timing: When a new ink tank is installed or when 168 hours have lapsed since the previous agitation (the agitation is performed irrespective of the whether the printer is printing or cleaning its head)
- Ink supply valve opening/closing count: 30 times (every 30 seconds)

If 336 or more hours have lapsed, the ink valve opening/closing count and the time until the next agitation are changed according to the length of the time lapsed.

2.3.2.2 Ink Tank Unit

2.3.2.2.1 Structure of Ink Tank Unit

iPF6100 / iPF6200 / iPF6300 / iPF6350

a) Ink tank

Each ink tank contains 130 ml of ink (the starter ink tank supplied with the printer contains 90 ml of ink) for each color. The amount of ink is memorized in the EEPROM mounted to the ink tank.

The amount of the ink remaining in the ink tank is detected as a dot count according to the data memorized in the EEPROM.

When the electrodes mounted to the hollow needle detect a con-conductive state, a message appears on the display to indicate that the ink is nearly empty. If the dot count reaches the prescribed value, the ink tank is considered to be empty.

b) Ink port

When the ink tank lock lever is pressed down, the hollow needle enters the ink port (covered with a rubber plug), establishing an ink passage between the printer and ink tank.

c) Air passage

When the ink tank lever of the printer is pressed down, the hollow needle enters the air passage (covered with a rubber plug) and thus the internal pressure of the ink tank is released, maintaining the internal pressure constant.

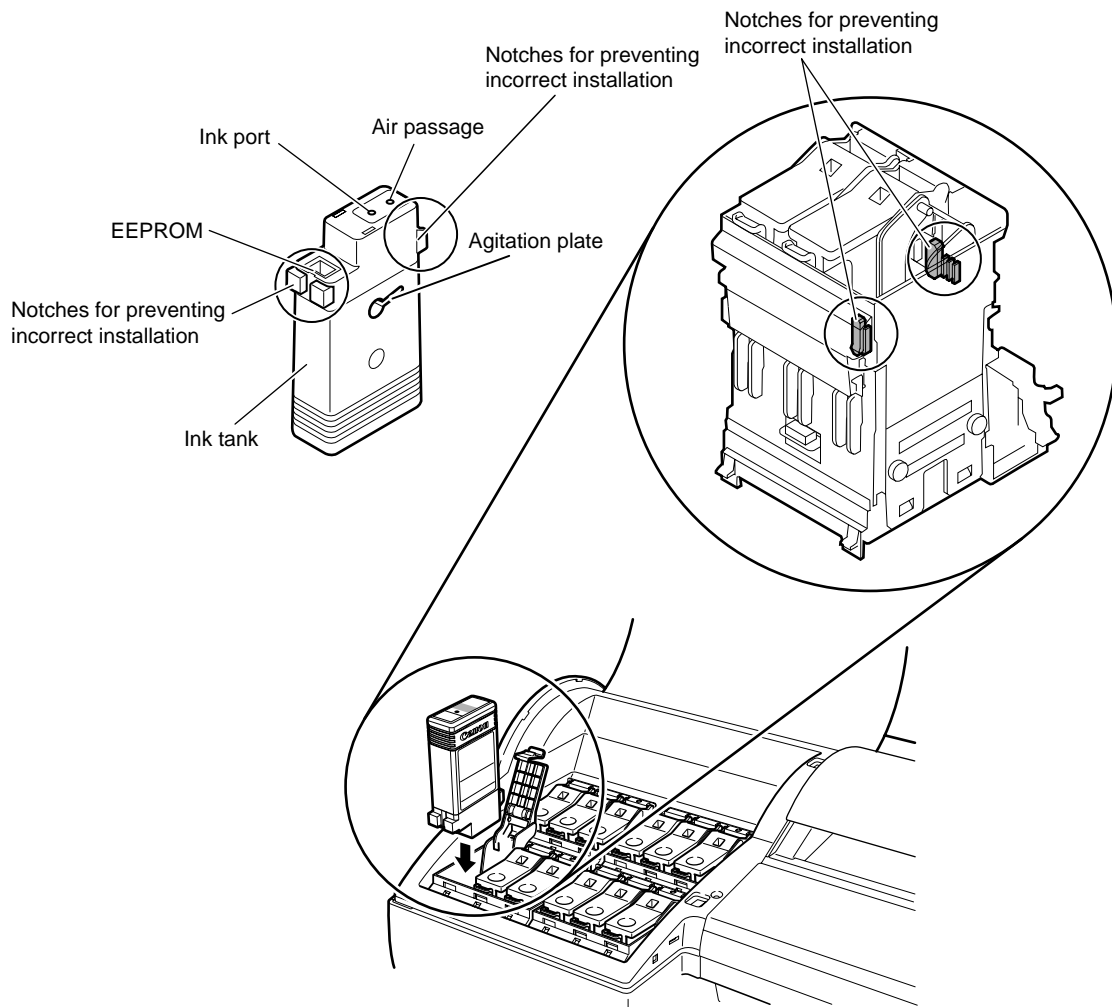
d) Notches for preventing incorrect insertion

The ink tanks have notches for preventing incorrect location. Wrong ink tanks cannot be installed in place due to these notches.

The ink tank lock lever can lowered to start ink supply only when the ink tank has been installed in place.

e) Agitation plate

The agitation plate assists the ink agitation which is performed to prevent precipitation of ink.



F-2-20

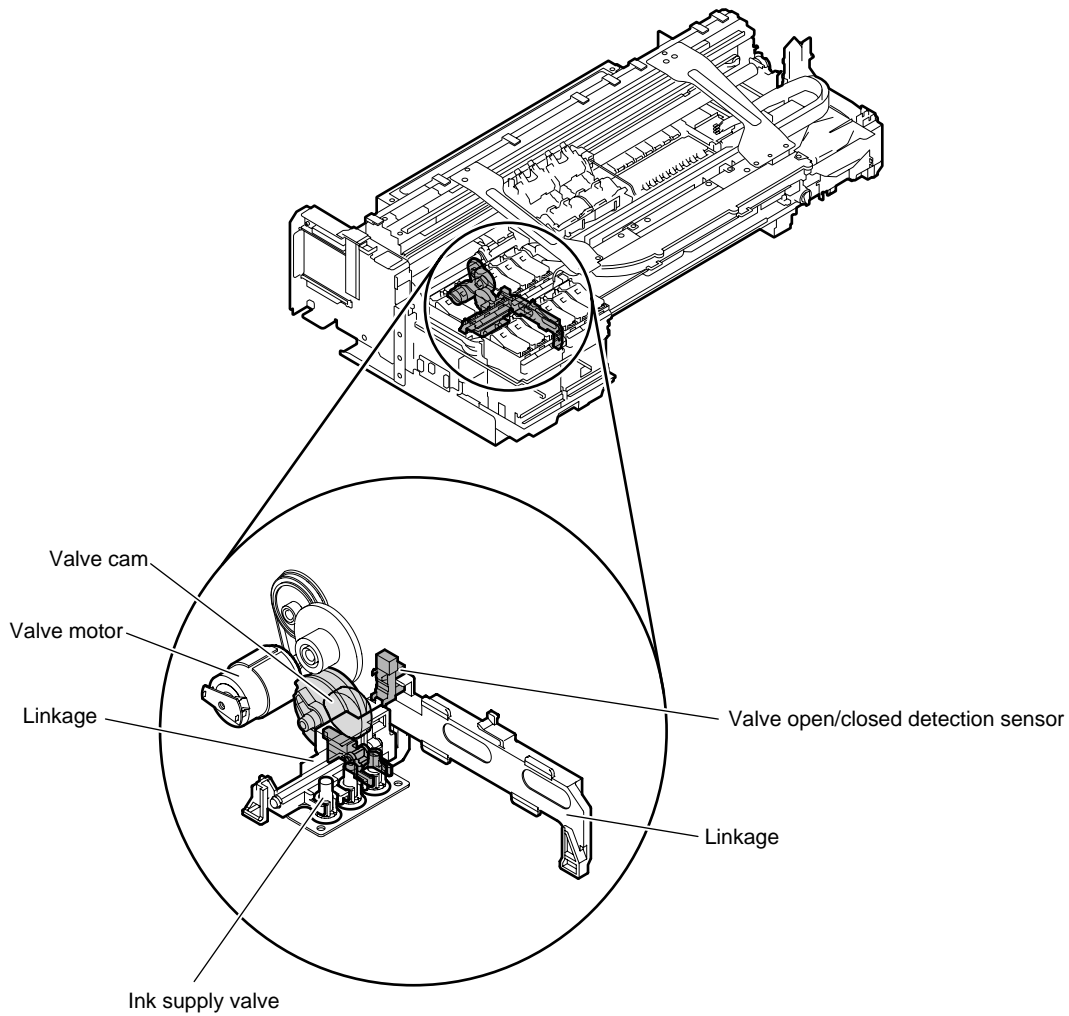
f) Ink supply valve

The ink supply valve is located between the ink tank and ink tube to prevent ink leakage from occurring when the ink tube on the ink tank side is opened during replacement of the ink tank.

The ink supply valve is opened and closed by the valve open/close mechanism which is driven by the valve motor.

The ink tank unit consists of two tank bases each of which contains ink tanks for three colors and the ink tubes for six colors.

The ink supply valve for each color is driven by the valve cam though a link. Ink supply valves for all colors are opened and closed at the same time.



F-2-21

2.3.2.2.2 Structure of Ink Tank Unit

iPF6000S / iPF6300S

a) Ink tank

Each ink tank contains 130 ml of ink (the starter ink tank supplied with the printer contains 90 ml of ink) for each color. The amount of ink is memorized in the EEPROM mounted to the ink tank.

The amount of the ink remaining in the ink tank is detected as a dot count according to the data memorized in the EEPROM.

When the electrodes mounted to the hollow needle detect a con-conductive state, a message appears on the display to indicate that the ink is nearly empty. If the dot count reaches the prescribed value, the ink tank is considered to be empty.

b) Ink port

When the ink tank lock lever is pressed down, the hollow needle enters the ink port (covered with a rubber plug), establishing an ink passage between the printer and ink tank.

c) Air passage

When the ink tank lever of the printer is pressed down, the hollow needle enters the air passage (covered with a rubber plug) and thus the internal pressure of the ink tank is released, maintaining the internal pressure constant.

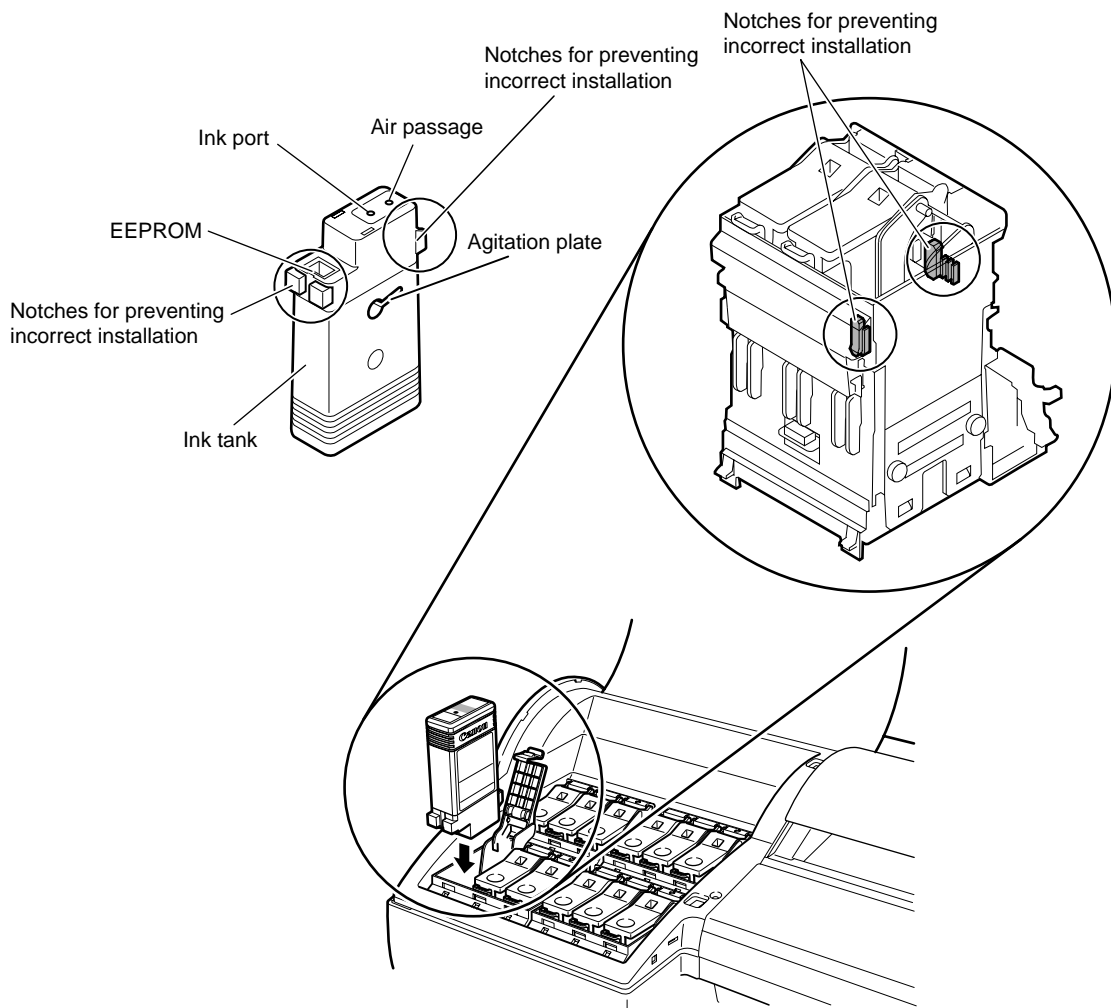
d) Notches for preventing incorrect insertion

The ink tanks have notches for preventing incorrect location. Wrong ink tanks cannot be installed in place due to these notches.

The ink tank lock lever can lowered to start ink supply only when the ink tank has been installed in place.

e) Agitation plate

The agitation plate assists the ink agitation which is performed to prevent precipitation of ink.



F-2-22

f) Ink supply valve

The ink supply valve is located between the ink tank and ink tube to prevent ink leakage from occurring when the ink tube on the ink tank side is opened during replacement of the ink tank.

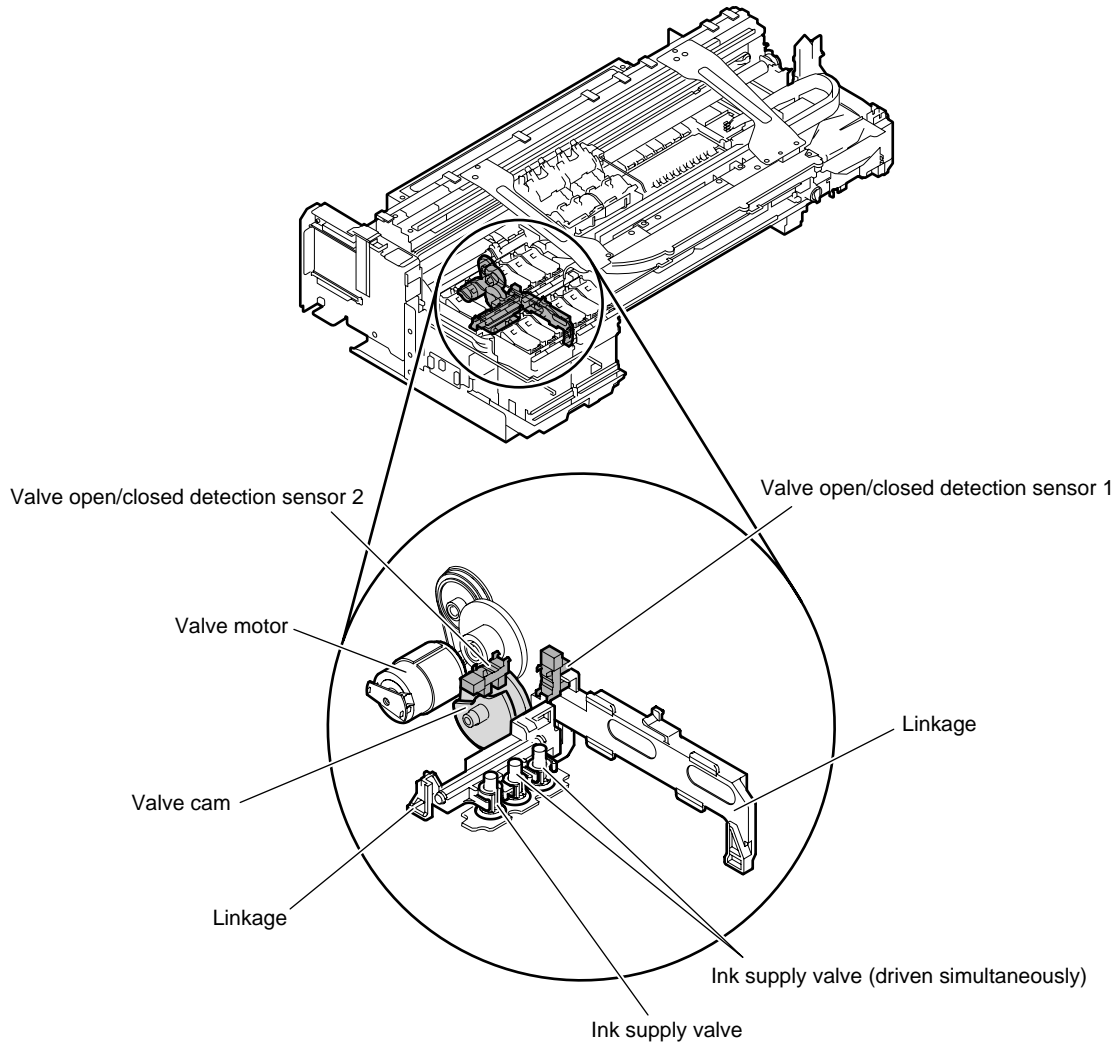
The ink supply valve is opened and closed by the valve open/close mechanism which is driven by the valve motor.

The ink tank unit consists of two tank bases each of which contains ink tanks for three colors and the ink tubes for six colors.

The ink tubes coming from the C, PC, PM and GY ink tanks feed both printheads L and R. Two valve open/closed detection sensors and valve motor control the opening and closing of the ink supply valves to prevent the ink tubes to whichever printhead that is not engaged in any operation, such as ink filling and suction, from being released.

T-2-3

Valve open/closed detection sensor 1	Valve open/closed detection sensor 2	Printhead L	Printhead R
OFF	ON	Open/Close	Open/Close
OFF	OFF	Close	Close
ON	ON	Open	Open



F-2-23

2.3.2.3 Carriage Unit

2.3.2.3.1 Functions of Carriage Unit

iPF6100 / iPF6200 / iPF6000S

a) Printhead mounting function

The carriage mechanically locks the printhead and is connected to the printhead via the terminals on the carriage PCB.

b) Control function

The carriage incorporates a carriage PCB that relays the signal from the main controller, a linear encoder that generates a print timing signal based on the detected carriage position, and a multi sensor that detects the media width and skewing to adjust the registration and height.

The carriage PCB and main controller PCB are connected with a flexible cable.

c) Carriage drive function

The carriage motor moves the carriage back and forth on the platen via the carriage belt.

d) Printhead maintenance function

The printer performs the printhead cleaning operation such as printhead wiping and suction at the home position of the carriage.

The cleaning operation accompanied by ink suction is performed only at the left cap.

e) Nozzle check function

The printer detects a non-discharging nozzle using the head management sensor attached to the maintenance jet tray by discharging ink with the carriage stopped at the maintenance jet tray.

f) Media thickness adjustment function

If the gap between the printhead face and the media increases due to the difference in media thickness, cockling, curling, and so on, more ink mist is generated. In reverse, if the gap decreases, the head can touch the media surface more frequently.

To maintain the proper gap, the remote lifter is driven to adjust the head height automatically according to the selected media type, media supply method, printing conditions (borderless/priority print type), environmental conditions (temperature/humidity), and the result of measurement by the multi sensor.

The relationship between media types and head heights (from the platen) is summarized in the table below. Note that the head height is adjusted with priority given to the media gap measured by the multi sensor.

T-2-4

Head height (mm)	Media type (Value in parentheses:mm)
1.4	Glossy paper(0.2),plain paper(line drawing)(0.1)
1.8	Plain paper(0.1)
2	Coated paper(0.5)
2.2	Semi-glossy canvas(0.5)
3.2	Board paper(1.5)

g) Paper leading edge detection function/paper width detection function/skewing detection function

The leading edge, width, and skewing of the paper fed to the platen is detected by the multi sensor mounted at the lower left of the carriage.

h) Auto printing position adjustment function

The adjustment pattern printed on paper is read by the multi sensor mounted at the lower left of the carriage, thus adjusting the printing timings of each printhead automatically.

i) Color calibration function

A multi sensor installed in the lower left part of the carriage reads the adjustment pattern printed on paper and corrects the coloring of the printed matter automatically.

The main menu choice "Calibration" can be executed to correct the coloring of printed matter in the wake of initial installation of the printer, the replacement of its printheads or otherwise changes in the coloring of printed matter.

j) Remaining roll media detection function

The amount of the remaining roll paper can be detected using the multi sensor mounted at the lower left of the carriage by printing a barcode at delivery of the roll media.

k) Internal temperature detection function

The internal temperature around the printhead is detected using the thermistor mounted on the carriage PCB.

2.3.2.3.2 Functions of Carriage Unit

iPF6300 / iPF6350 / iPF6300S

a) Printhead mounting function

The carriage mechanically locks the printhead and is connected to the printhead via the terminals on the carriage PCB.

b) Control function

The carriage incorporates a carriage PCB that relays the signal from the main controller, a linear encoder that generates a print timing signal based on the detected carriage position, and a multi sensor that detects the media width and skewing to adjust the registration and height. The carriage PCB and main controller PCB are connected with a flexible cable.

c) Carriage drive function

The carriage motor moves the carriage back and forth on the platen via the carriage belt.

d) Printhead maintenance function

The printer performs the printhead cleaning operation such as printhead wiping and suction at the home position of the carriage. The cleaning operation accompanied by ink suction is performed only at the left cap.

e) Nozzle check function

The printer detects a non-discharging nozzle using the head management sensor attached to the maintenance jet tray by discharging ink with the carriage stopped at the maintenance jet tray.

f) Media thickness adjustment function

If the gap between the printhead face and the media increases due to the difference in media thickness, cockling, curling, and so on, more ink mist is generated. In reverse, if the gap decreases, the head can touch the media surface more frequently.

To maintain the proper gap, the remote lifter is driven to adjust the head height automatically according to the selected media type, media supply method, printing conditions (borderless/priority print type), environmental conditions (temperature/humidity), and the result of measurement by the multi sensor.

The relationship between media types and head heights (from the platen) is summarized in the table below. Note that the head height is adjusted with priority given to the media gap measured by the multi sensor.

T-2-5

Head height (mm)	Media type (Value in parentheses:mm)
1.0	Glossy paper(0.2),plain paper(line drawing)(0.1)
1.4	Initial position
1.8	Plain paper(0.1)
2	Coated paper(0.5)
2.2	Semi-glossy canvas(0.5)
3.2	Board paper(1.5)

g) Paper leading edge detection function/paper width detection function/skewing detection function

The leading edge, width, and skewing of the paper fed to the platen is detected by the multi sensor mounted at the lower left of the carriage.

h) Auto printing position adjustment function

The adjustment pattern printed on paper is read by the multi sensor mounted at the lower left of the carriage, thus adjusting the printing timings of each printhead automatically.

i) Color calibration function

A multi sensor installed in the lower left part of the carriage reads the adjustment pattern printed on paper and corrects the coloring of the printed matter automatically.

The main menu choice "Calibration" can be executed to correct the coloring of printed matter in the wake of initial installation of the printer, the replacement of its printheads or otherwise changes in the coloring of printed matter.

j) Remaining roll media detection function

The amount of the remaining roll paper can be detected using the multi sensor mounted at the lower left of the carriage by printing a barcode at delivery of the roll media.

k) Internal temperature detection function

The internal temperature around the printhead is detected using the thermistor mounted on the carriage PCB.

2.3.2.3.3 Structure of Carriage Unit

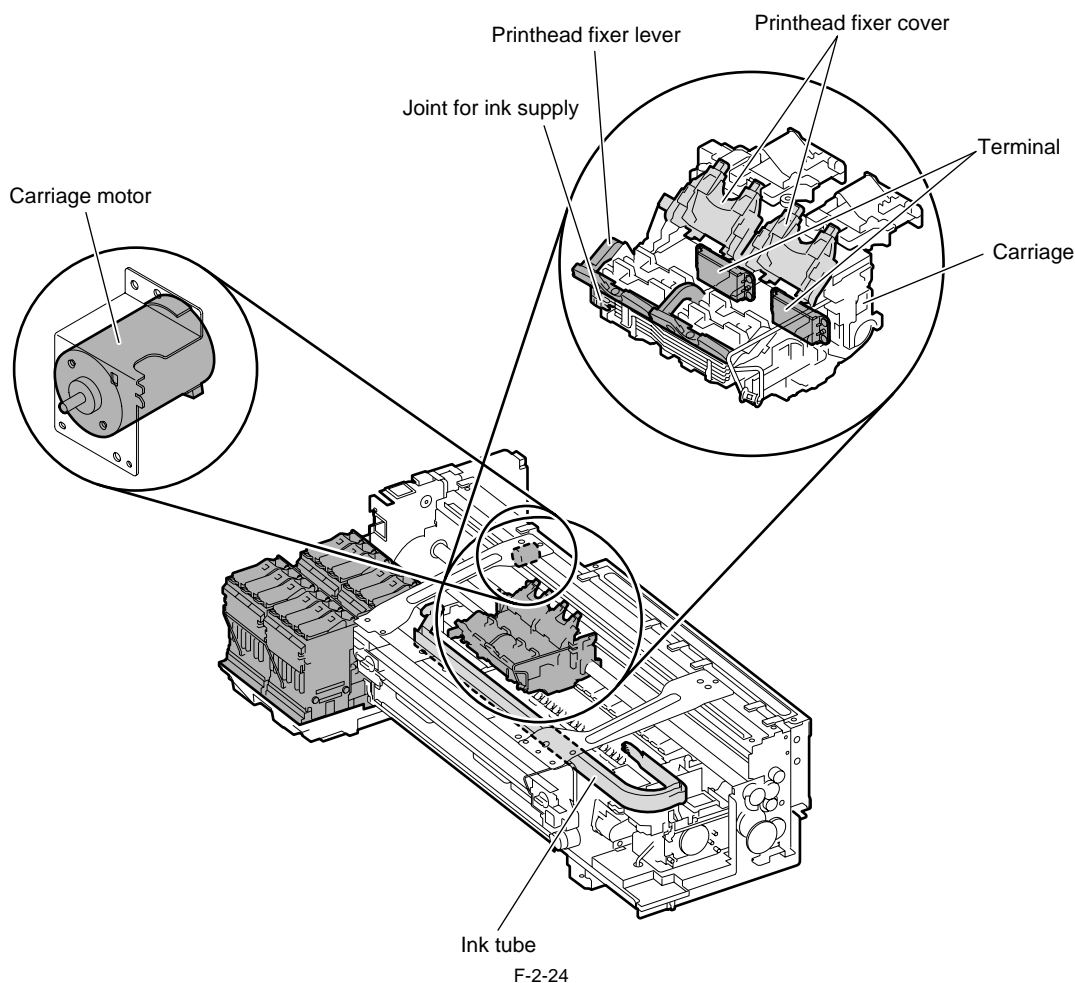
iPF6100 / iPF6200 / iPF6000S / iPF6300 / iPF6350 / iPF6300S

a) Printhead mounting unit

The printhead is secured to the carriage by the printhead fixer lever.

When the printhead is secured to the carriage, the signal contact of the carriage PCB touches the signal contact point of the printhead, allowing print signals to be transmitted.

The ink passage from the ink tank is connected to the printhead through the ink tube and joint.



b) Ink port

Ink is supplied to the printhead through the ink tubes.

Ink tube run through the ink tube guide mounted on the carriage and move in conjunction with the carriage.

c) Control unit

The carriage PCB is connected to the main controller PCB with a flexible cable. The flexible cable moves in conjunction with the carriage.

A photo-coupler-type encoder is mounted at the top of the rear of the carriage to detect the slit on the linear scale during carriage movement, thus controlling the print timing.

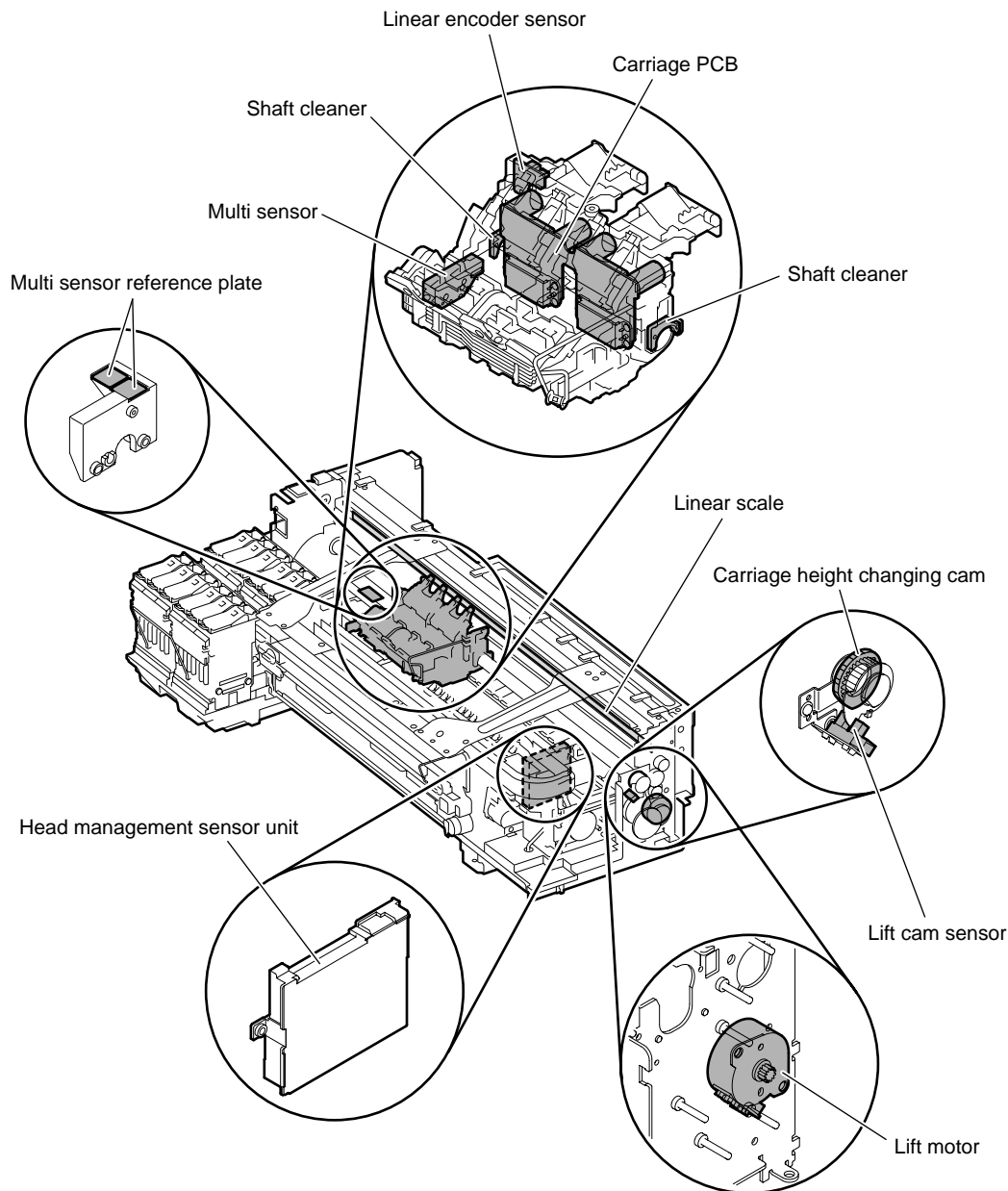
d) Carriage drive unit

Mechanical misalignment of the printhead in the vertical and horizontal direction and in bidirectional printing can be corrected by changing the print timing using the "Adjust Printer" option in the Main menu.

The carriage motor (DC motor) moves the carriage back and forth on the platen via the carriage belt.

The carriage home position is the capping position to which the carriage is slowly moved when the power is turned on.

When the position read on the linear scale is set as the home position for position control, the carriage motor moves based on control signal output from the main controller.



F-2-25

e) Printhead maintenance unit

The printer performs the printhead cleaning operation at the home position of the carriage.

The purge motor is used for wiping. When the carriage is stationary at the home position, the printhead installed in the carriage is wiped with the wiper blade. The wiper blade is pressed against the absorbent material soaked with glycerin so that the wiper blade is moistened with glycerin, thus improving the wiping performance.

Idle ejection of ink is performed on the cap, the borderless ink tray of the platen, and paper.

The suction operation is performed by rotating the pump motor after completion of capping. (Note that the cleaning operation accompanied by suction is performed only at the left cap.)

f) Carriage height adjustment

When the lift motor is driven to rotate the carriage height changing cams installed at both ends of the shaft, the height of the carriage shaft is varied to change the spacing between the face of the printheads and the paper.

The printhead height is detected by the multisensor installed in the lower left part of the carriage.

g) Multi sensor unit

The multi sensor mounted at the lower left of the carriage is composed of four LEDs (red, blue, green, infrared) and two light-sensitive elements which are used to detect the leading edge, width, and skewing of paper and adjust the color calibration and head height.

The multi sensor reference plate is provided with a white plate. By measuring the quantity of the reflected light from the white plate, the reference value for gap measurement is computed.

(Service mode: SERVICE MODE> ADJUST> GAP CALIB.)

h) Shaft cleaner units

The shaft cleaners mounted at the left and right of the carriage are used to clean the carriage and apply oil to the shaft.

i) Internal temperature detection

A thermistor for measuring the internal temperature is mounted on the carriage PCB on the rear of the head holder.

2.3.2.4 Printhead

2.3.2.4.1 Structure of Printhead

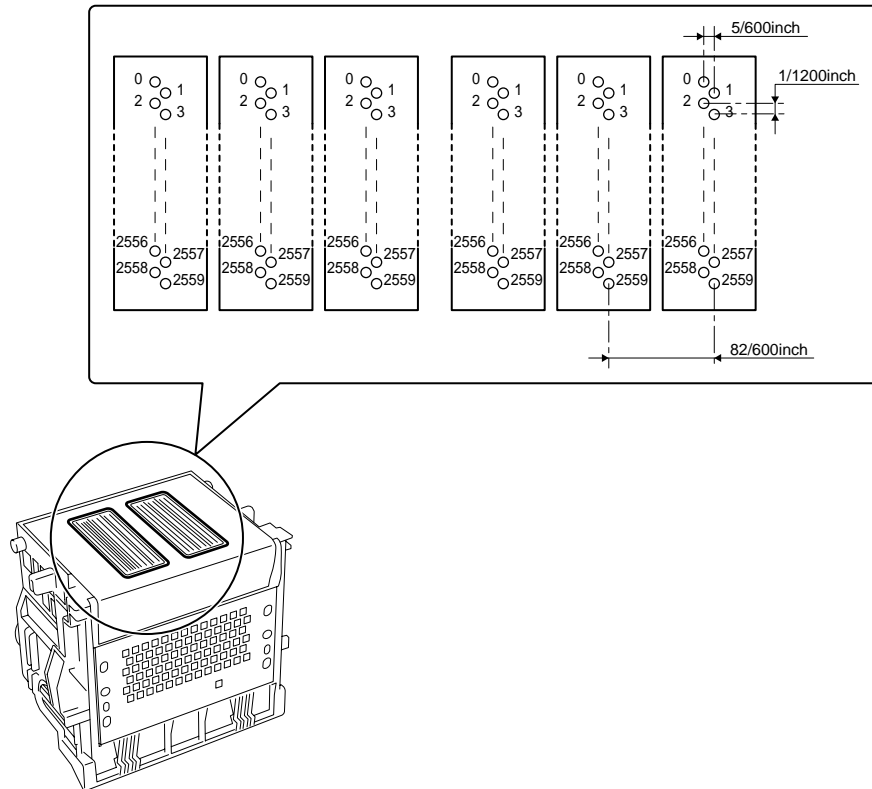
iPF6100 / iPF6200 / iPF6000S / iPF6300 / iPF6350 / iPF6300S

A printhead incorporates six nozzle arrays. Each nozzle can be controlled individually so that a six-color discharge action can be performed by a single printhead.

a) Nozzle arrays

A total of 2560 nozzles are arranged in a two-column staggered pattern.

In each column, 1280 nozzles are arranged in a staggered pattern at intervals of 600 dpi, forming a 2560-nozzle arranged at intervals of 1200 dpi.

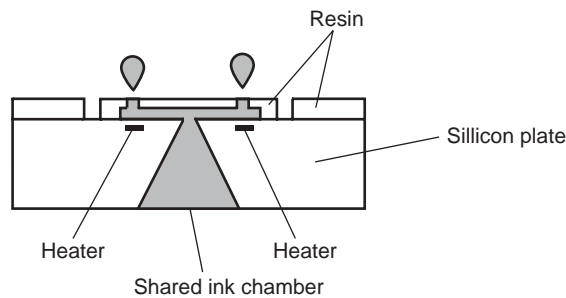


F-2-26

b) Nozzle structure

Ink supplied from the ink tank is filtered by a mesh ink filter, and the supplied to the nozzles.

Ink is supplied from the shared ink chamber to the nozzles. When the head driving current is applied to the nozzle heater, ink boils and form bubbles so that ink droplets are discharged from the nozzles.



F-2-27

2.3.2.5 Purge Unit

2.3.2.5.1 Functions of Purge Unit

iPF6100 / iPF6200 / iPF6000S / iPF6300 / iPF6350 / iPF6300S

To maintain high print quality, the purge unit performs maintenance of the nozzles of the printhead. The purge unit supports a capping function, cleaning function, and ink supply function.

a) Capping function

The capping function presses the cap of the purge unit against the face plate on the nozzle section of the printhead to prevent nozzle drying and dust adhesion. Capping is performed when printing is complete, at the start of the suction operation, and when switching to the standby state due to an error. The capping function also establishes the ink passage between the printhead and purge unit.

b) Cleaning function

The cleaning function restores the printhead to the state where ink can be easily discharged from nozzles. This function includes the following three types of operations.

- Wiping operation

This operation is performed to remove paper fibers and dried ink from the face plate.

- Pumping operation

This operation is performed to remove ink from the nozzles and fill the nozzles with fresh ink.

- Maintenance jet operation

This operation is performed to spray ink from the nozzles to the cap, the borderless ink jet tray, and on paper to remove bubbles in the nozzles and dust and other foreign particles.

c) Ink supply function

The suction pump of the purge unit operates together with the ink supply valve to supply ink to the printhead during the initial filling and ink level adjustment.

Details of the cleaning function are shown in the table below.

Cleaning mode	Name of Service mode or PRINT INF (Name of Main Menu)	Operation	Description of cleaning
Cleaning 1	CLN-A-1/CLN-M-1 (Head Cleaning A)	Normal cleaning	Removes dried ink from nozzles, thick ink accumulated on the face, and paper particles.
Cleaning 2	CLN-A-2	Ink level adjustment and cleaning	Adjust the ink level in the head by suction, and then performs normal cleaning.
Cleaning 3	CLN-A-3	Initial filling ink	Fills the empty tube (during initial installation) with ink, and then performs normal cleaning.
Cleaning 4	CLN-M-4 (Replace P.head)	Ink drainage for head replacement	Drains ink to replace the head (drains only the ink in the head).
Cleaning 5	CLN-M-5 (Move Printer)	Ink drainage for secondary transport	Drains ink from the head and tube for secondary transport.
Cleaning 6	CLN-A-6/CLN-M-6 (Head Cleaning B)	Normal (strong) cleaning	Performs suction stronger than when adjusting the ink filling amount in the head or normal cleaning to unclog nozzles.
Cleaning 7	CLN-A-7	Aging	Performs idle ejection after replacement of the head.
Cleaning 10	CLN-A-10 (Move Printer)	Ink filling after secondary transport	Fills the empty tube (during installation after secondary transport) with ink, and performs normal cleaning.
Cleaning 11	CLN-A-11	Ink filling after head replacement	Performs normal cleaning after head replacement and ink filling.
Cleaning 15	CLN-A-15	Dot count suction	Performs suction to remove ink adhered to dried nozzles and thick ink accumulated on the face when the dot count reaches the prescribed value.
Cleaning 16	CLN-A-16	Precipitated ink agitation	Performs the agitation (ink supply valve open/close) operation to prevent the ink ingredient from precipitating.
Cleaning 17	CLN-A-17	Cleaning (weak)	Performs cleaning weaker than normal cleaning to unclog nozzles.

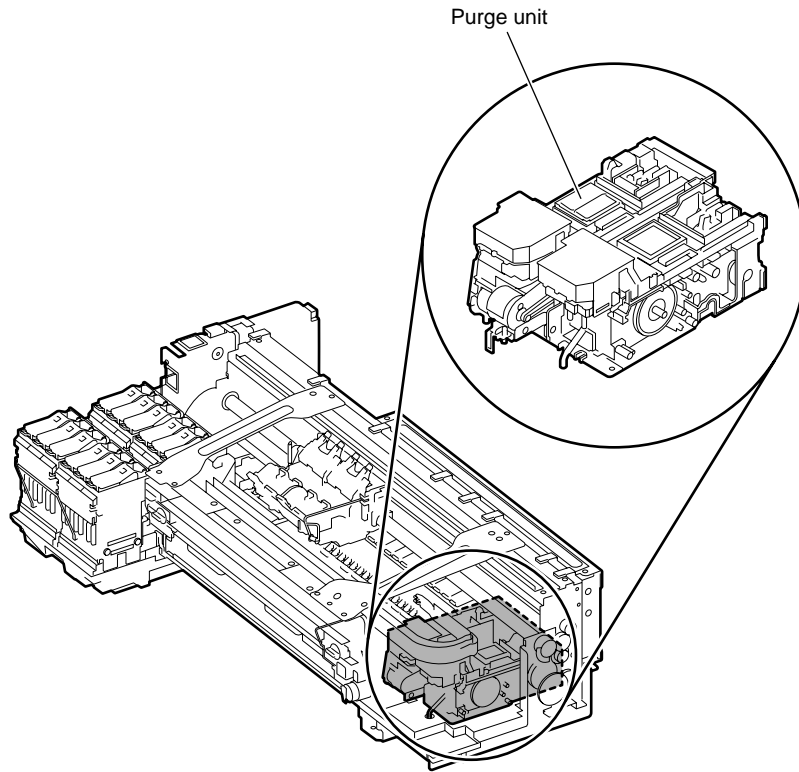
Cleaning operation timings are as follows.

Printer status		Cleaning operation	Consumption (typ.)*1		
Standby	168 hours elapsed capped		Cleaning 1 (Normal Cleaning)	1g	
	At least 720 hours elapsed since the last session of Cleaning 2, 3, 6 or 10 (360 hours after initial installation)		Cleaning 6 (Normal (strong) Cleaning)	5g	
	At initial installation and 96 hours elapsed since the last session of Cleaning 16		Cleaning 16 (Precipitated ink agitation)	-	
	1 hour elapsed capped with a specified number of dots discharged per chip completed after last wiping		Wiping + Idle ejection	0.013g	
Power-on	At initial installation		Cleaning 3 (initial filling ink)	15g	
	Both heads and inks available	The print operation has completed.	168 to 720 hours elapsed capped	Cleaning 1 (Normal Cleaning)	1g
			At least 720 hours elapsed since the last session of Cleaning 2, 3, 6 or 10 (360 hours after initial installation)	Cleaning 6 (Normal (strong) Cleaning)	5g
			At least 96 hours elapsed since the last session of Cleaning 16	Cleaning 16 (Precipitated ink agitation)	-
			At least 1 hour elapsed capped with a specified number of dots discharged per chip completed after last wiping	Wiping + Idle ejection	0.013g
	Print operation aborted (uncapped) and CR error occurring	Up to 72 hours elapsed after an abort	Cleaning 1 (Normal Cleaning)	1g	
		Over 72 hours elapsed after an abort	Cleaning 6 (Normal (strong) Cleaning)	5g	
	Print operation aborted (uncapped) and no CR error occurring		Cleaning 11 (ink filling after head replacement)	10g	
No heads are available		Cleaning 10 (ink filling on secondary transport)	15g		
Power off	Specified number of dots discharged per chip completed since the last session of wiping		Wiping + Idle ejection	0.013g	
Before the start of printing	Less than 168 hours elapsed capped		Idle ejection	0.013g	
	At least 168 hours elapsed capped		Cleaning 1 (Normal Cleaning)	1g	
	Before printing in the wake of an error occurrence		Cleaning 1 (Normal Cleaning)	1g	
Printing	Before scanning while printing		Idle ejection (+Wiping)	-(0.013g)	
After the end of printing	A specified number of dots (color) discharged per chip since the last session of Cleaning 2, 3, 6 or 10		Cleaning 6 (Normal (strong) Cleaning)	5g	
	A specified number of dots discharged per chip after the last session of wiping		Wiping + Idle ejection	0.013g	
	3 minutes elapsed since the last session of capping		Wiping + Idle ejection	0.013g	
	Total 2 hours elapsed uncapped since the last session of Cleaning 1, 2, 3, 6 or 10		Cleaning 1 (Normal Cleaning)	1g	
When the Head Cleaning menu choice is executed	Manual Cleaning (Head Cleaning A)		Cleaning 1 (Normal Cleaning)	1g	
	Manual cleaning (Head cleaning B)		Cleaning 6 (Normal (strong) Cleaning)	5g	
When the Replace Print Head menu choice is executed	After head replacement		Cleaning 2 (ink level adjustment and cleaning) + Cleaning 4 (ink drainage for head replacement)	10g	
When the Move Printer menu choice is executed	After the Move Printer menu choice is executed		Cleaning 5 (ink drainage for secondary transport)	10g	
	After power-on at secondary installation		After power-on at secondary installation	15g	

*1: Quantities of ink consumption by nozzle train

2.3.2.5.2 Structure of Purge Unit

iPF6100 / iPF6200 / iPF6000S / iPF6300 / iPF6350 / iPF6300S



F-2-28

a) Cap unit

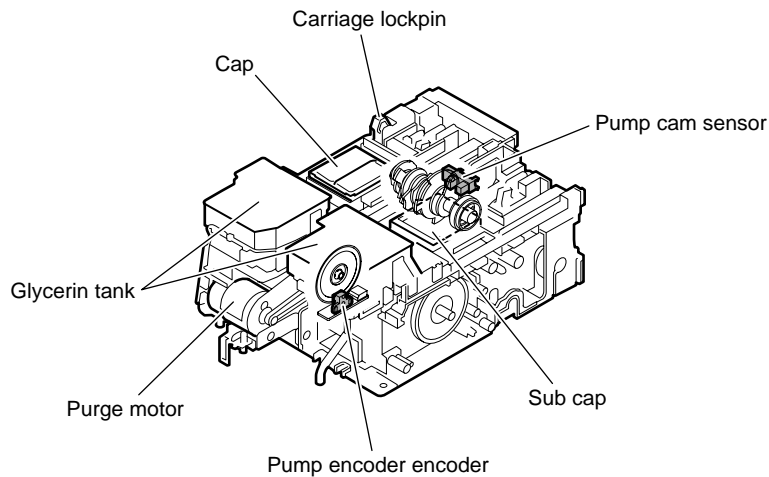
The cap unit is used to cap the print head nozzles during capping and cleaning. The portion that touches the face plate is made from rubber. Two left caps are arranged for the printhead (six arrays of nozzles) installed in the carriage.

During cleaning, the caps used for both suction and capping are used to suck ink from the printhead using the suction pump.

Each of the right caps is used to cap the six arrays of nozzles.

This cap is used only for capping.

During capping, the caps are raised by the cap cams operated by the purge motor to cover the arrays when the carriage has moved to the home position, thus protecting the nozzles.



F-2-29

b) Wiper unit

The wiper unit operated by the purge motor wipes the print head face.

The printer is provided with a pair of wiper blades for better wiping performance.

The wiping operation is performed by a "slide wipe" method by which the purge motor rotates (in the normal direction) to slide the wiper blade via the wiper cam.

It is performed by a constant-speed movement toward the front of the printer as viewed from the printer front.

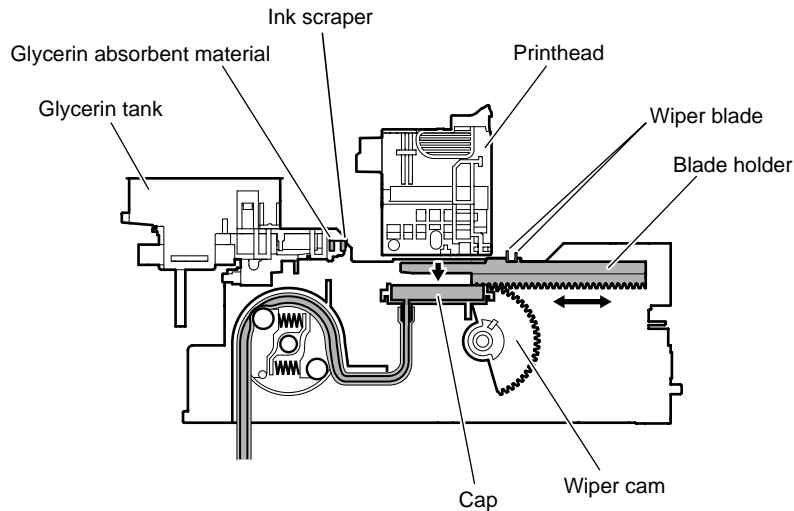
The wiper blade, which is positioned at right angles to the print head, wipes the entire printhead face, and then the narrow blade is used to wipe the nozzle arrays.

After wiping, the wiper blades are cleaned before they are set at the wiping position so that the maximum wiping performance is obtained.

During the wiper blade cleaning, the ink removed from the head is rubbed off by the ink scraper. Absorbent material soaked with glycerin is pressed against the wiper blades to enhance the wiping performance. The amount of glycerin used (tank capacity: 50 ml) is managed by counting the number of times the wiper blade is pressed against the absorbent material. When the count reaches the following value, an advance notice of replacement (printing can be continued) or a request for replacement (service call error) is displayed.

T-2-6

Advance notice of replacement	47,500times
Service call	50,000times



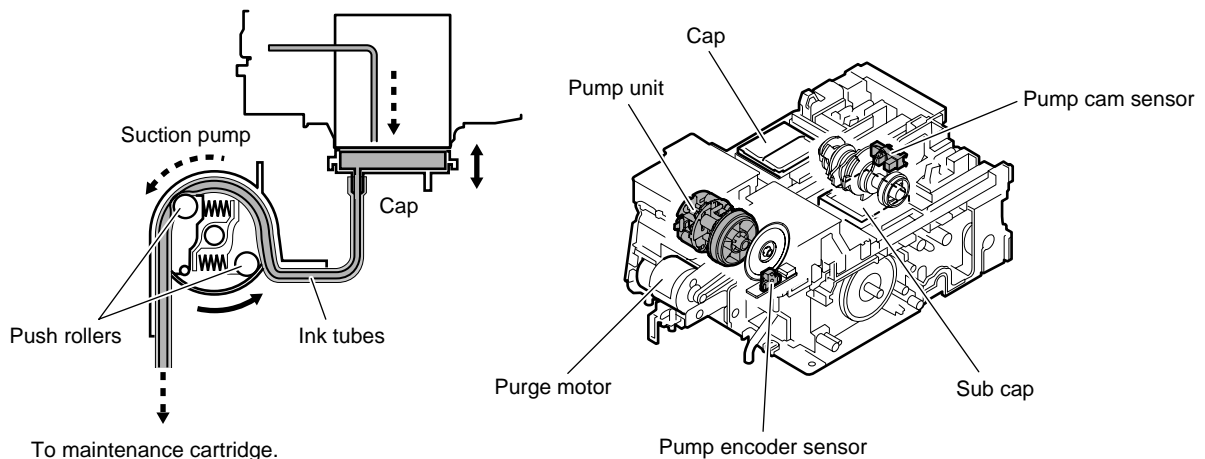
F-2-30

c) Pump unit

This printer uses tube pumps (suction pumps) that press on the ink tubes using rollers to produce negative pressure, thus sucking ink.

Two rollers are used to press on a single tube one after another to control the amount of ink sucked.

The roller rotation timing is detected by the pump cam sensor, and the amount of rotation is controlled by the driving of the purge motor.



To maintenance cartridge.
The ink from the sub cap flows to the absorbent material under the pump unit.

F-2-31

2.3.2.6 Maintenance Cartridge

2.3.2.6.1 Maintenance Cartridge

iPF6100 / iPF6200 / iPF6000S

a) Maintenance cartridge

The maintenance cartridge can contain up to approximately 957 ml (approx. 1021 g) of waste ink (including the moisture evaporation in the waste ink).

b) Detection of waste ink in maintenance cartridge

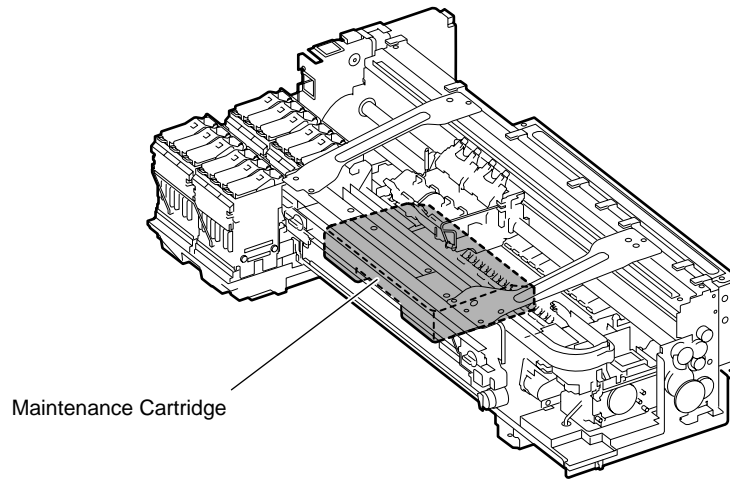
The quantity of waste ink in the maintenance cartridge is measured by counting dots.

When the quantity of waste ink collected in the maintenance cartridge reaches 80% of the cartridge capacity, a warning message "MTCart Full Soon" appears to indicate that the maintenance cartridge is nearly full.

If printing is continued, an error message "Maint Cartridge Replace Cart" appears to indicate that the maintenance cartridge is full.

When this error occurs, the printer judges the maintenance cartridge as being full of waste ink and stops printing immediately. The printer stops even if printing is in progress, and it will not operate until the maintenance cartridge is replaced with a new one.

The maintenance cartridge incorporates an EEPROM. The main controller reads and writes the contents of the EEPROM to control the maintenance cartridge status.



F-2-32

2.3.2.6.2 Maintenance Cartridge

iPF6300 / iPF6350 / iPF6300S

a) Maintenance cartridge

The maintenance cartridge holds as much about 893 ml (part of MBK (pigment) ink: 210 ml/part of dye ink: 683 ml) of used inks (including the moisture evaporation in the waste ink).

b) Detection of waste ink in maintenance cartridge

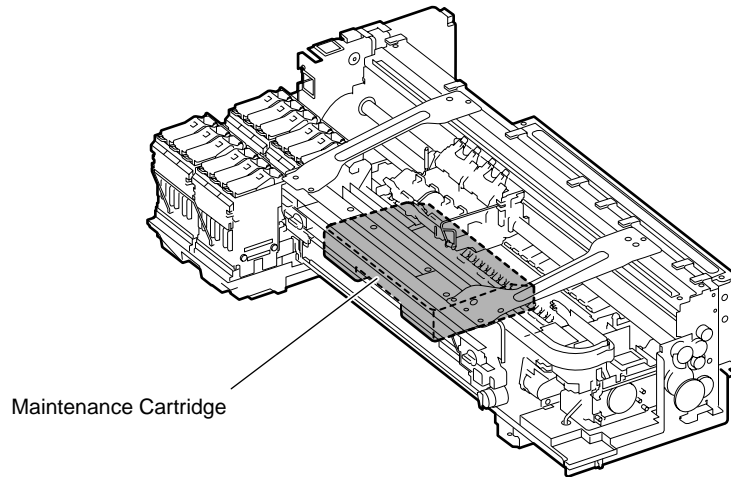
The quantity of waste ink in the maintenance cartridge is measured by counting dots.

When the quantity of waste ink collected in the maintenance cartridge reaches 80% of the cartridge capacity, a warning message "MTCart Full Soon" appears to indicate that the maintenance cartridge is nearly full.

If printing is continued, an error message "Maint Cartridge Replace Cart" appears to indicate that the maintenance cartridge is full.

When this error occurs, the printer judges the maintenance cartridge as being full of waste ink and stops printing immediately. The printer stops even if printing is in progress, and it will not operate until the maintenance cartridge is replaced with a new one.

The maintenance cartridge incorporates an EEPROM. The main controller reads and writes the contents of the EEPROM to control the maintenance cartridge status.



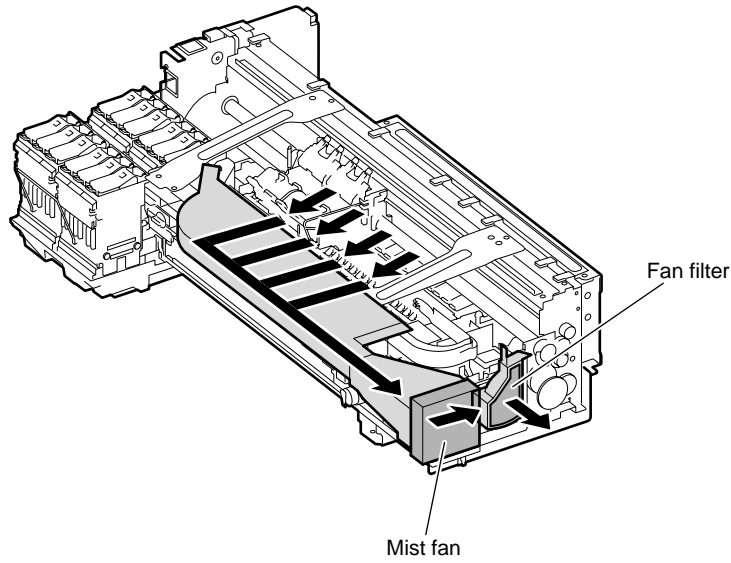
F-2-33

2.3.2.7 Air Flow

2.3.2.7.1 Air flow

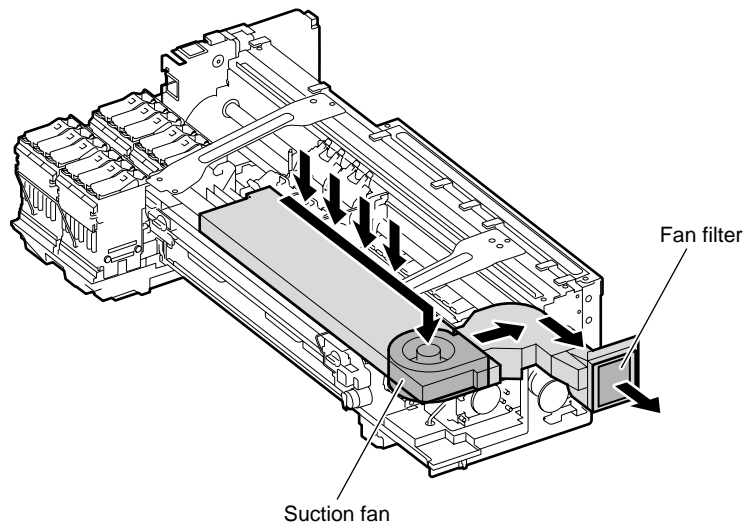
iPF6100 / iPF6200 / iPF6000S / iPF6300 / iPF6350 / iPF6300S

This printer has two fans, a mist fan used to collect mist and a suction fan used to suck media onto the platen. Ink mist that floats inside the printer and ink splashes from the media are collected in the filter through the front duct and the air flow path inside the printer by the driving of the mist fan, thus preventing mist from discharged outside the printer.



F-2-34

During operation of the suction fan, suspended substances are collected in the filter through the airflow path inside the printer, preventing them from being emitted to outside of the printer.



F-2-35

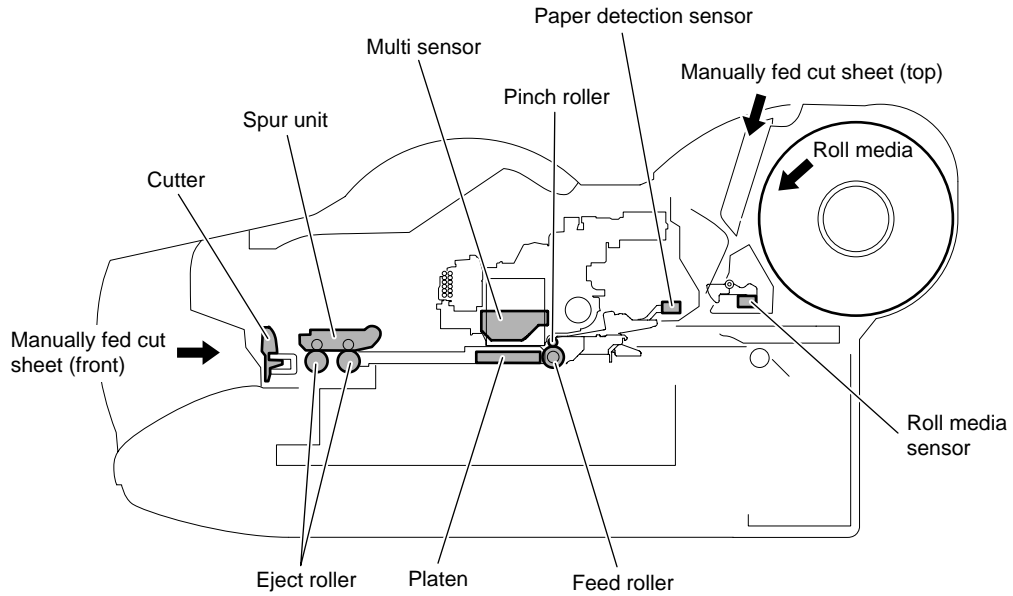
2.3.3 Paper Path

2.3.3.1 Outline

2.3.3.1.1 Overview of Paper Path

iPF6100 / iPF6200 / iPF6000S / iPF6300 / iPF6350 / iPF6300S

The paper path consist of roll feed unit, feed roller unit, pinch roller drive unit that applies/releases pressure to/from the pinch roller, spur drive unit that moves the spur up/down, and various sensors that detect the media feed status, allowing media to be fed in three ways, fed, and ejected.

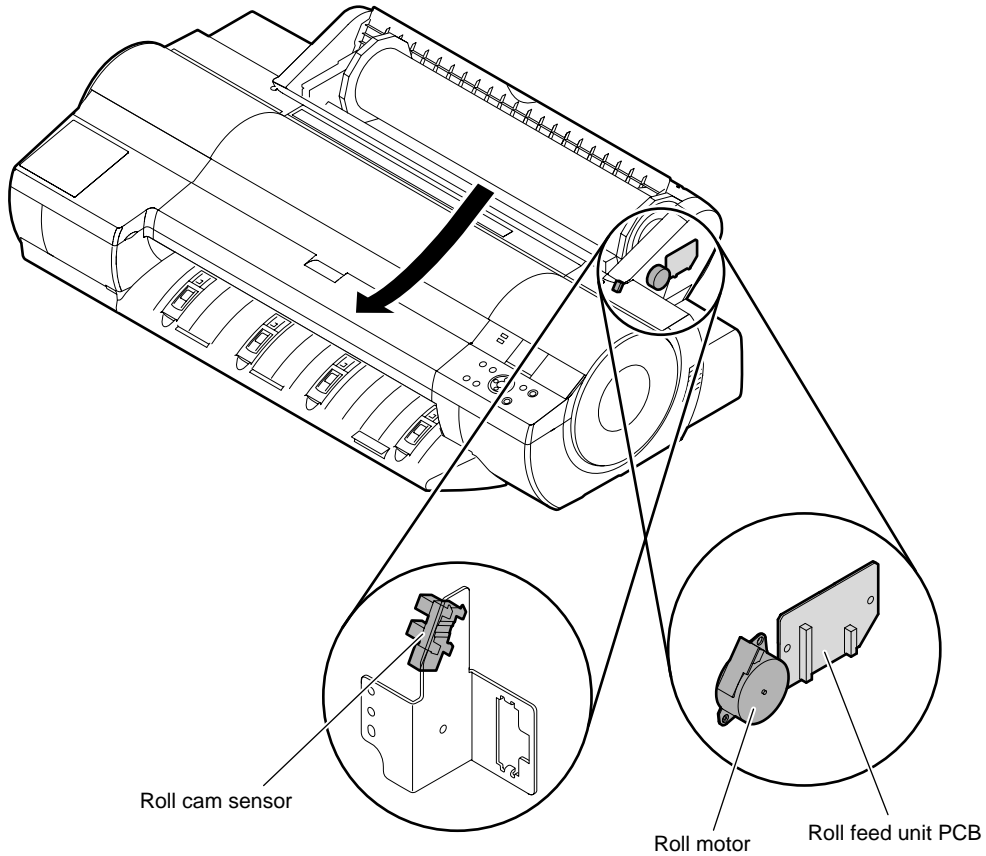


2.3.3.2 Paper Path

2.3.3.2.1 Structure of Roll Media Pick-up Unit

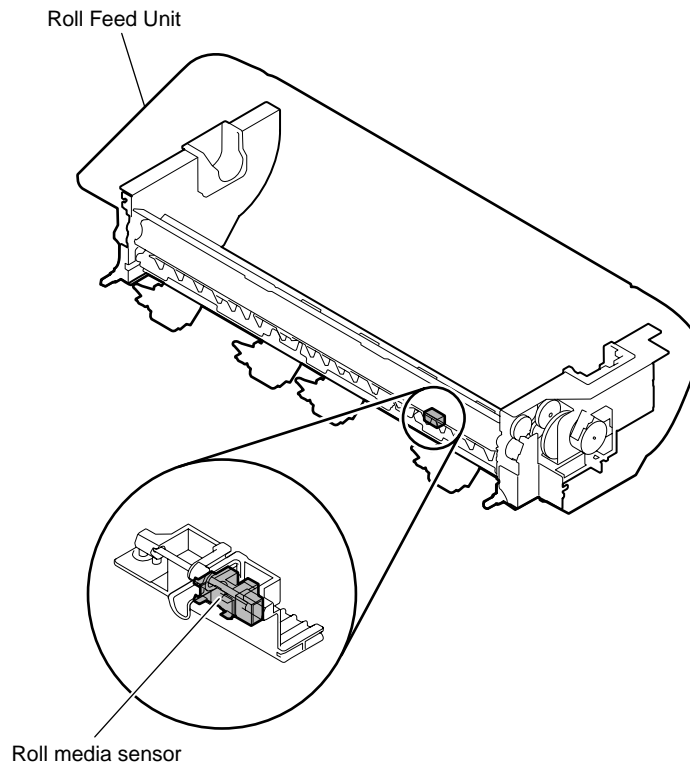
iPF6100 / iPF6200 / iPF6000S / iPF6300 / iPF6350 / iPF6300S

When the roll media sensor detects media loaded with the printer powered, the roll media pick-up roller touches the media to rotate the roll media feed roller, thus feeding the roll media onto the platen. Roll media feeding is controlled by the roll motor and roll feed unit PCB. The roll media pick-up roller is moved up and down by the cam, and the cam movement is detected by the roll media cam sensor. When the printer is turned on with roll media loaded, the roll media pick-up operation starts automatically.



F-2-37

If the roll media sensor detects that there is no roll during roll media pick-up operation, the roll media is ejected.



F-2-38

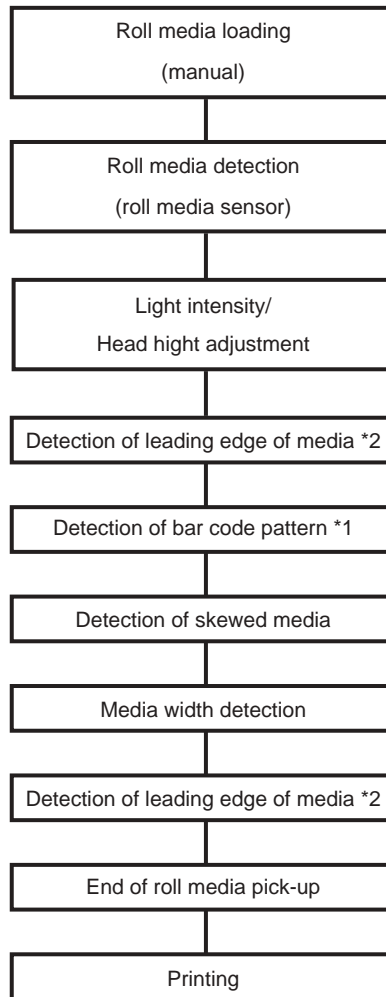
2.3.3.2.2 Roll Media Pick-up Sequence

iPF6100 / iPF6200 / iPF6000S / iPF6300 / iPF6350 / iPF6300S

When the roll media detects the loaded roll media, roll media pick-up operation starts.

When media is fed from the auto roll feed unit by the specified length, the multi sensor performs the adjustments and detection shown below, thus completing the roll media pick-up operation.

Roll media is fed by controlling the roll motor and feed motor of the auto roll feed unit.



*1

- This operation is performed only when "ON" is selected for "Detect Remaining Roll Media".

- If the roll media does not have a bar code pattern on it, enter the length of the roll media using the menu on the operation panel.

*2

- The purpose of the first leading edge detection is to detect presence of media.

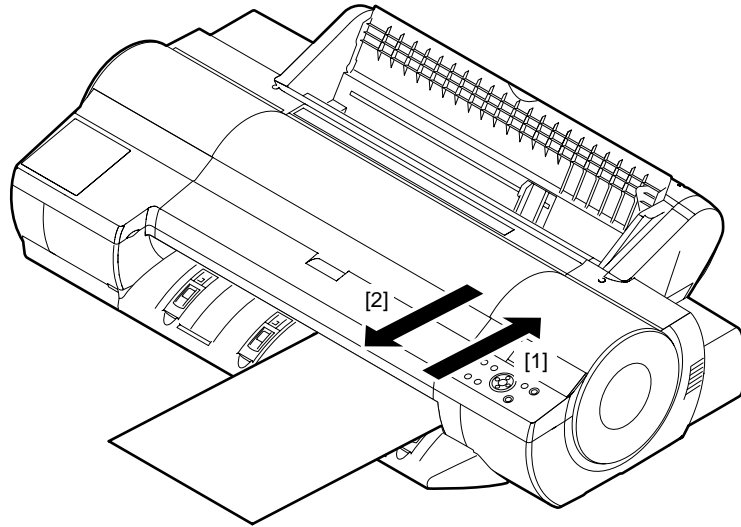
- The purpose of the second leading edge detection is to detect the printing start position.

2.3.3.2.3 Structure of Manual Feed Unit

iPF6100 / iPF6200 / iPF6000S / iPF6300 / iPF6350 / iPF6300S

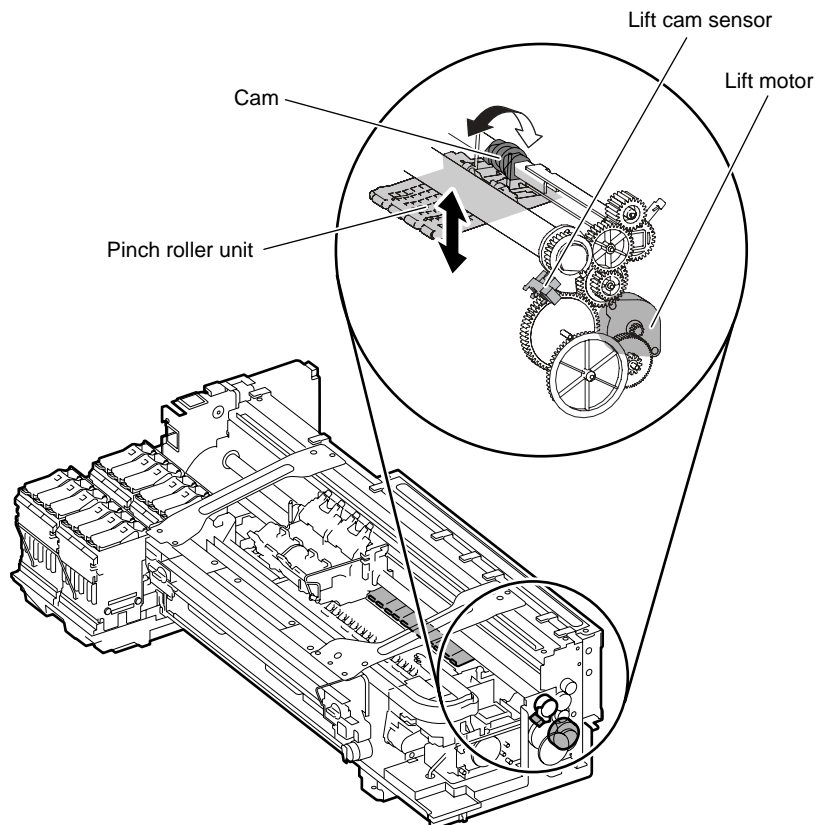
a) Manual feed (from front)

The cut sheet fed from the front (ejection unit) of the printer is fed to the rear of the printer [1], and then fed onto to platen [2] for printing.



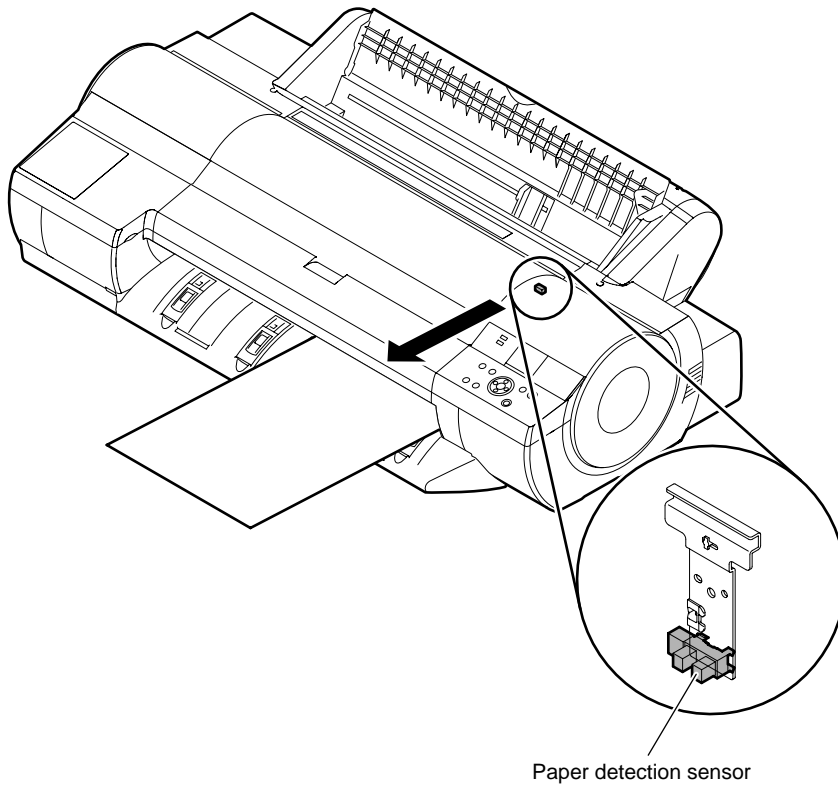
F-2-40

This method of feeding paper can be used only when an accept media type is selected from the Manual Feed menu in the use mode. If you select the Manual Feed menu, the pinch roller unit moves up to allow you to feed paper from the front of the printer according to the message shown on the operation panel. The pinch roller unit is moved up and down by the lift motor. The cam which is also operated by the lift motor via gears moves up and down the pinch roller.



F-2-41

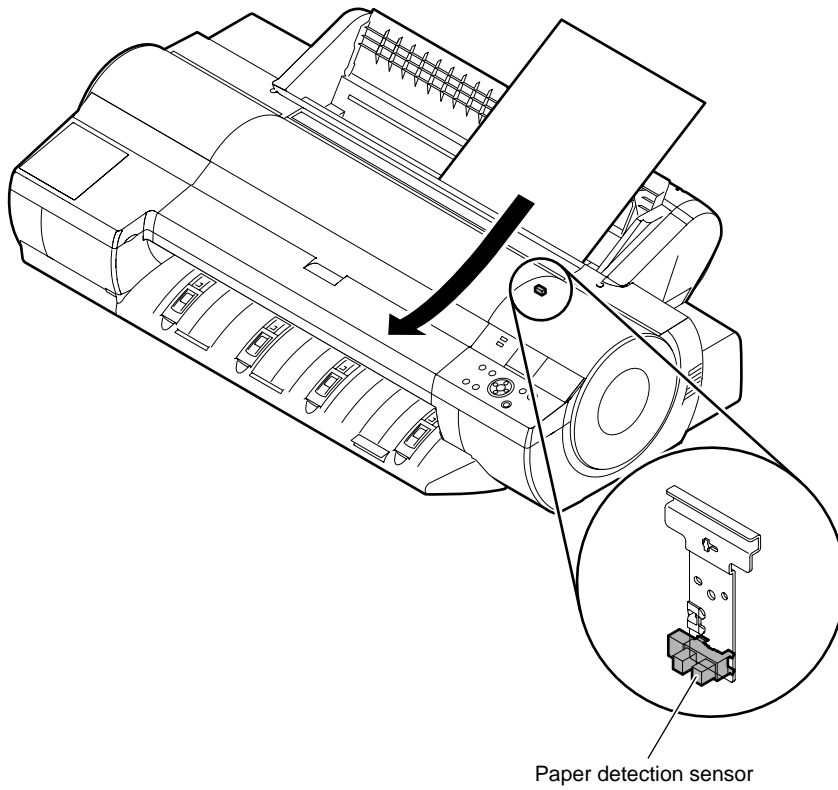
The pick-up timing of the paper fed to the rear of the printer is controlled by the paper detection sensor.



F-2-42

b) Manual feed (from rear)

The paper loaded in the paper tray provided at the rear of the printer is fed onto the platen for printing. This method of feeding paper can be used only when an acceptable media type is selected from the Manual Feed menu in the user mode. The pick-up timing of the paper loaded in the rear paper tray according to the message shown on the operation panel is controlled by the paper detection sensor.



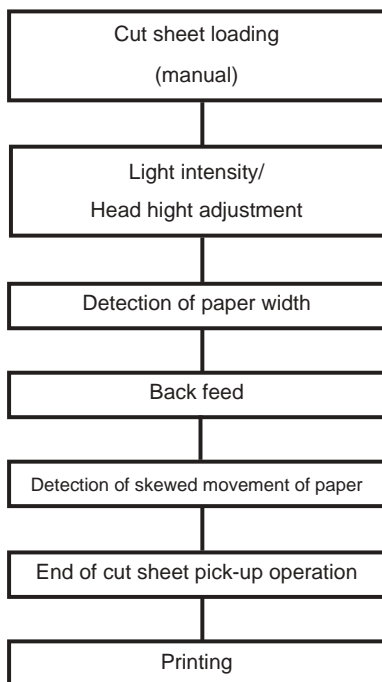
F-2-43

2.3.3.2.4 Manual Feed (from Front) Sequence

iPF6100 / iPF6200 / iPF6000S / iPF6300 / iPF6350 / iPF6300S

This sequence can be performed according to the messages shown on the operation panel only when a specific type of media is selected after selecting the manual feed mode from the menu shown on the operation panel. When a cut sheet is loaded according to the message shown on the operation panel, the printer performs various adjustments and detection using the multi sensor and then feeds the cut sheet to the rear of the printer. At this time, the multi sensor detects skewed feeding and leading edge of the cut sheet, thus completing the paper pick-up operation.

During printing, the cut sheet is fed by controlling the rotation of the feed roller according to the selected print mode.



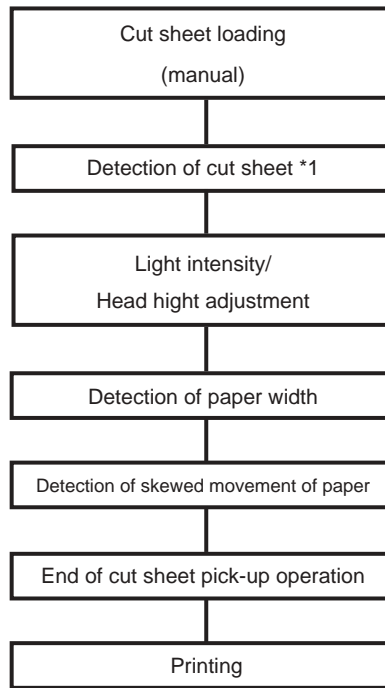
F-2-44

2.3.3.2.5 Manual Feed (from Rear) Sequence

iPF6100 / iPF6200 / iPF6000S / iPF6300 / iPF6350 / iPF6300S

This sequence can be performed according to the messages shown on the operation panel only when a specific type of media is selected after selecting the manual feed mode from the menu shown on the operation panel. When the cut sheet loaded at the back of the printer is detected by the sensor, the printer starts feeding the cut sheet. After this, the printer performs various adjustments and detection using the multi sensor, thus completing the paper pick-up operation.

During printing, the cut sheet is fed by controlling the rotation of the feed roller according to the selected print mode.



*1

The auto roll feed unit starts feeding the cut sheet when the roll media detection sensor detects the media. When the auto roll feed unit is not mounted, the printer starts feeding the media when the paper detection sensor detects the media.

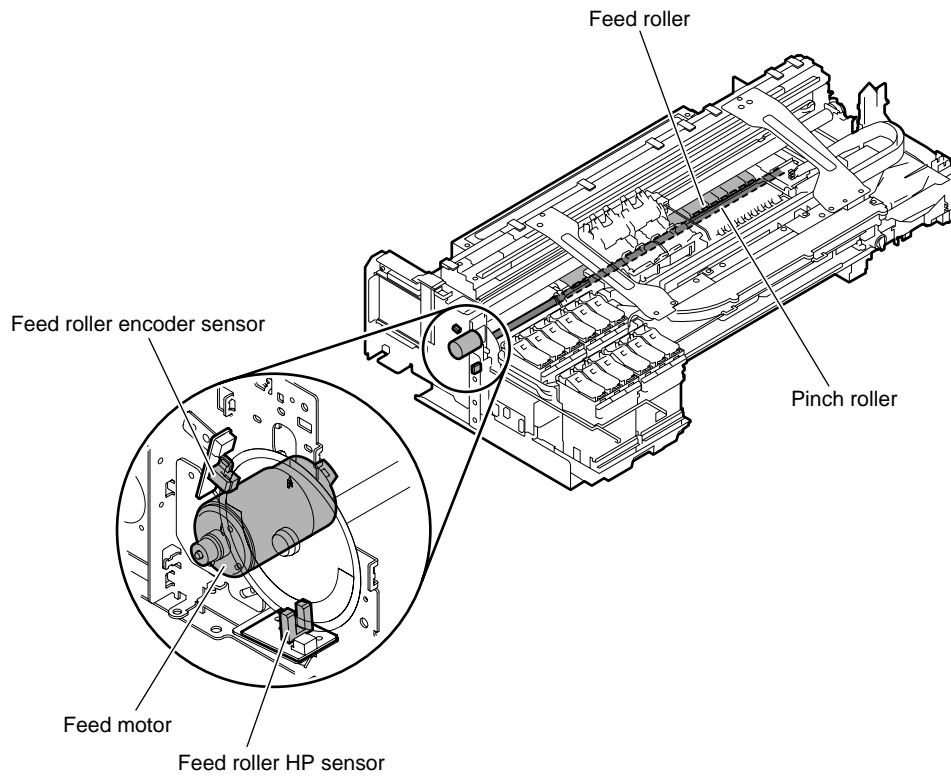
2.3.3.2.6 Structure of Feed Roller Unit

iPF6100 / iPF6200 / iPF6000S / iPF6300 / iPF6350 / iPF6300S

The feed roller unit consists of media feeding mechanisms such as feed rollers driven by the feed motor and the pinch roller unit operating in conjunction with the feed rollers.

While being held flat on the platen, media is fed horizontally under the printhead.

The feed roller unit has a sensor that detects the media feed status and a sensor that detects the status of the mechanisms that constitute the paper path.



F-2-46

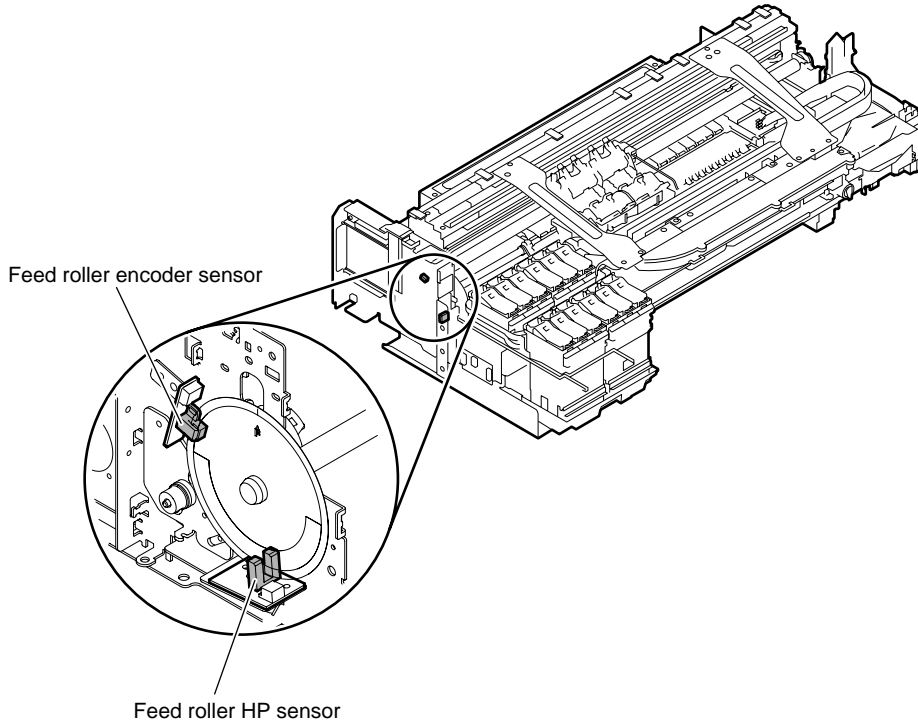
2.3.3.2.7 Feed Roller Eccentricity Detection Function

iPF6100 / iPF6200 / iPF6000S / iPF6300 / iPF6350 / iPF6300S

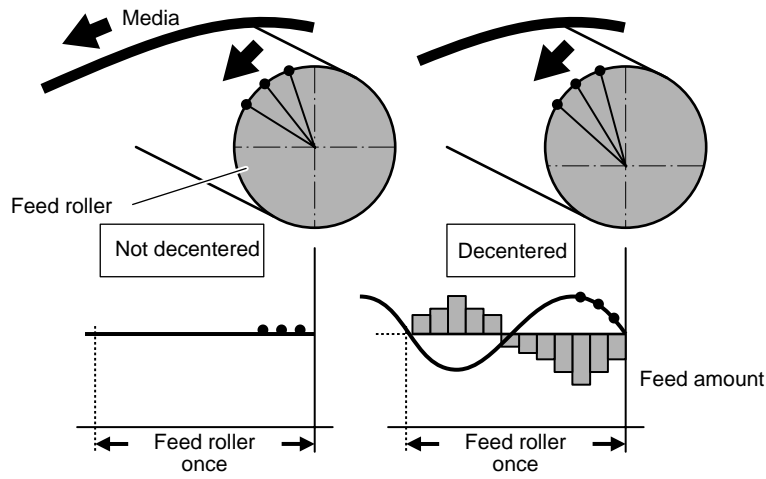
Media are fed by the feed roller at regular intervals.

Irregular feeding of media due to the feed roller eccentricity problem, irregular printing can occur in the media feeding direction periodically.

To prevent this, the feed roller encoder sensor and feed roller HP sensor detect the presence and amount of feed roller eccentricity every rotation of the feed roller. This function is called the feed roller eccentricity detection function. If eccentricity is detected, the media feed mount is compensated for according to the amount of eccentricity.



F-2-47



F-2-48

2.3.3.2.8 Structure of Ejection Spur

iPF6100 / iPF6200 / iPF6000S / iPF6300 / iPF6350 / iPF6300S

a) Outline

The ejection spur unit consists of a spur, a spur motor that moves the spur, a spur cam sensor, and an eject roller.

b) Spur lift mechanism

The spur must be moved up and down according to the selected media type and feed mode. The spur motor and spur cam sensor are used to control the spur stop position.

- In case of manual feed from front

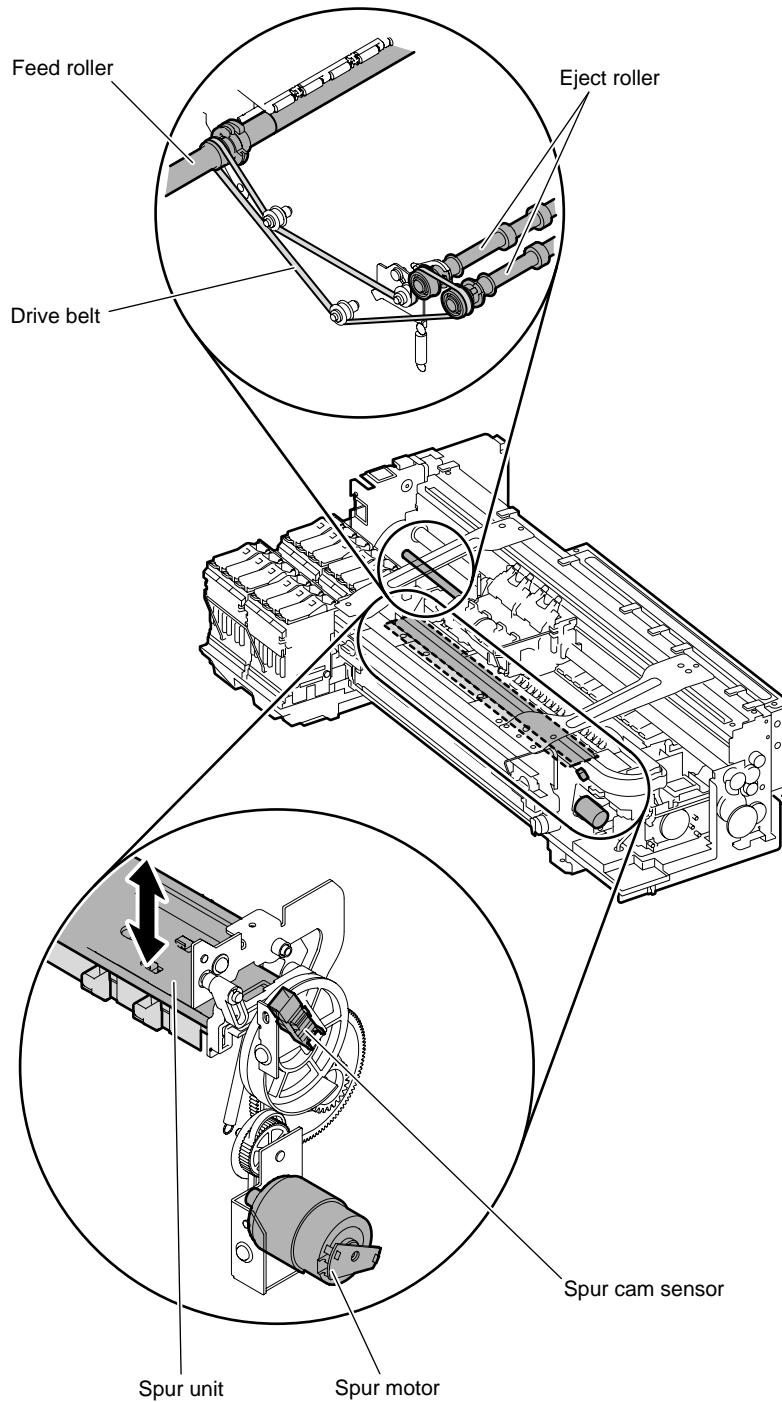
When the above mode is selected in the user mode, the spur moves to the upper limit position and then stops.

- Stop position depending on media type

To prevent the spur from damaging the media, the spur stops at a proper position according to the media type selected in the user mode.

c) Eject roller drive

The drive power of the eject roller is transmitted from the feed roller via the drive belt.



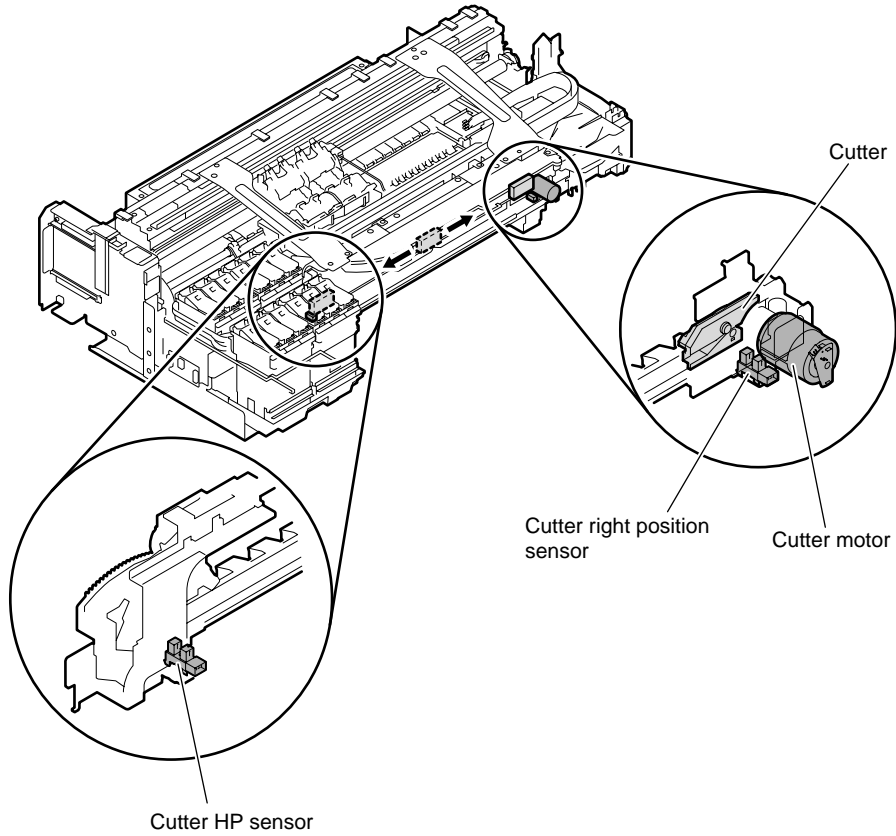
F-2-49

2.3.3.3 Cutter Unit

2.3.3.3.1 Structure of Cutter unit

iPF6100 / iPF6200 / iPF6000S

If roll media are used, the cutter unit attached on the front of the spur unit cuts the leading end of the media on loading and cuts the media on ejection. Whether to perform cutting or not is determined by the choice of the main menu and the specifications of the printer driver. The cutter in the cutter unit stands by at the cutter home position, except when it cuts roll media. Power from the cutter drive motor is imparted to the circular belt to move the cutter from left to right for cutting roll media.



F-2-50

2.3.3.3.2 Structure of Cutter Unit

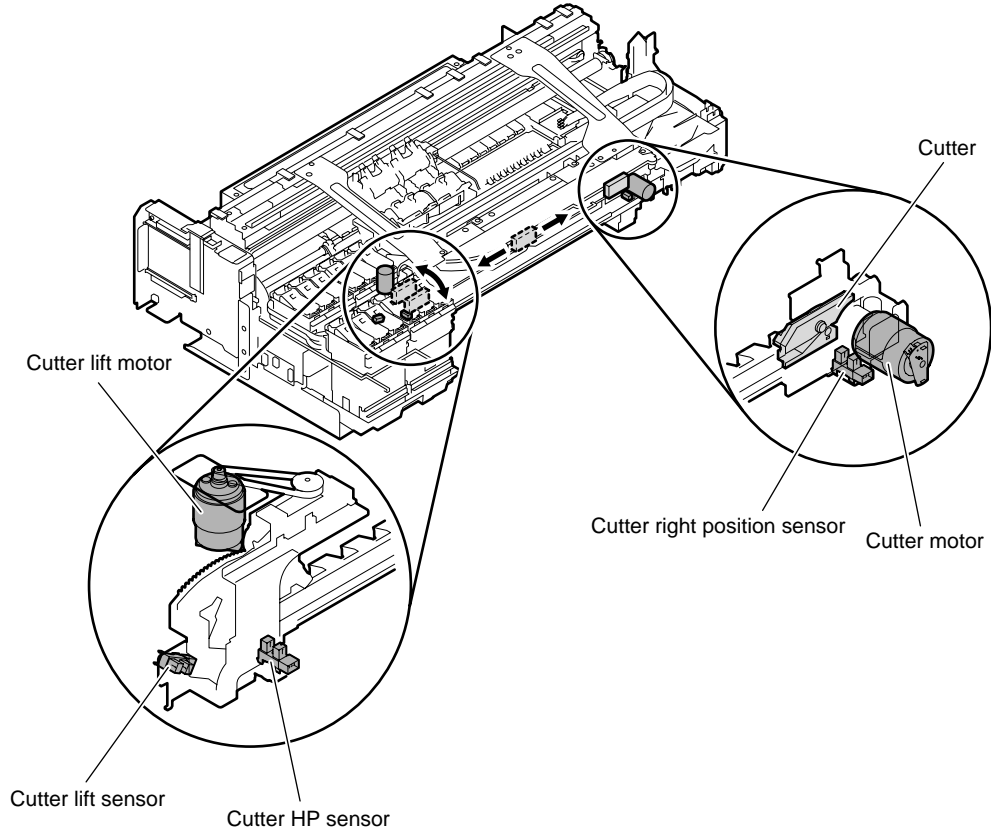
iPF6300 / iPF6350 / iPF6300S

If roll media are used, the cutter unit attached on the front of the spur unit cuts the leading end of the media on loading and cuts the media on ejection. Whether to perform cutting or not is determined by the choice of the main menu and the specifications of the printer driver.

The cutter unit is moved up and down by the cutter lift motor.

When cut sheets are used, the spur is raised at the trailing edge of the cut sheet due to its stiffness and therefore the force to feed paper becomes weak, resulting in printing of defective images. To prevent this, the cutter unit is evacuated (moved up) to the specified position.

The cutter in the cutter unit stands by at the cutter home position, except when it cuts roll media. Power from the cutter drive motor is imparted to the circular belt to move the cutter from left to right for cutting roll media.



F-2-51

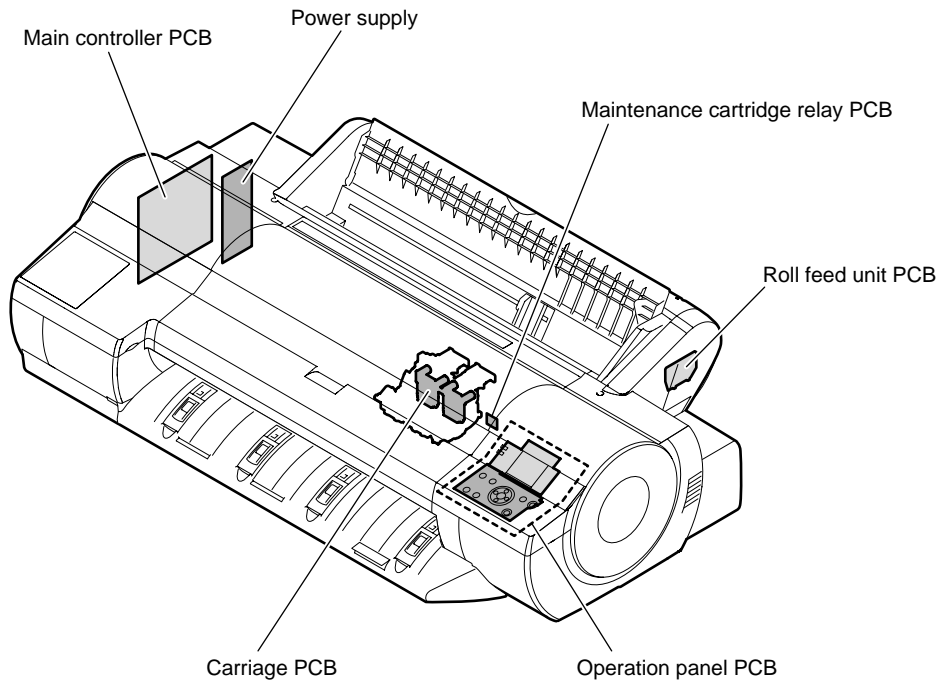
2.4 Printer Electrical System

2.4.1 Outline

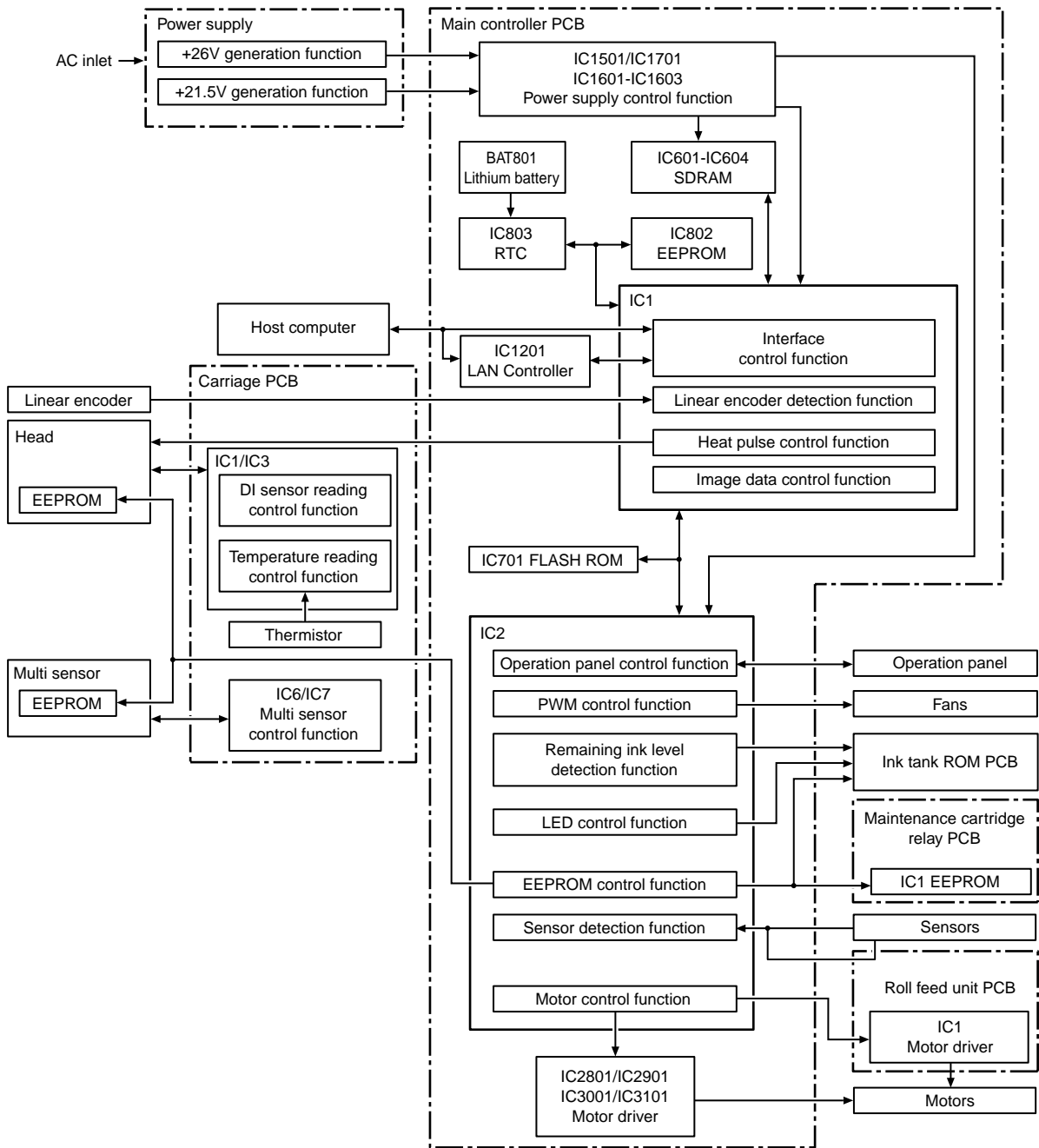
2.4.1.1 Overview

iPF6100

The printer electrical system consists of the main controller PCB and power supply PCB which are mounted on the left side of the printer, the carriage PCB and print head which are mounted in the carriage, and other electrical components such as the operation panel, sensors, and motors. The main controller PCB manages the image data processing and the entire electrical system, and controls relay PCBs and driver functions.



F-2-52

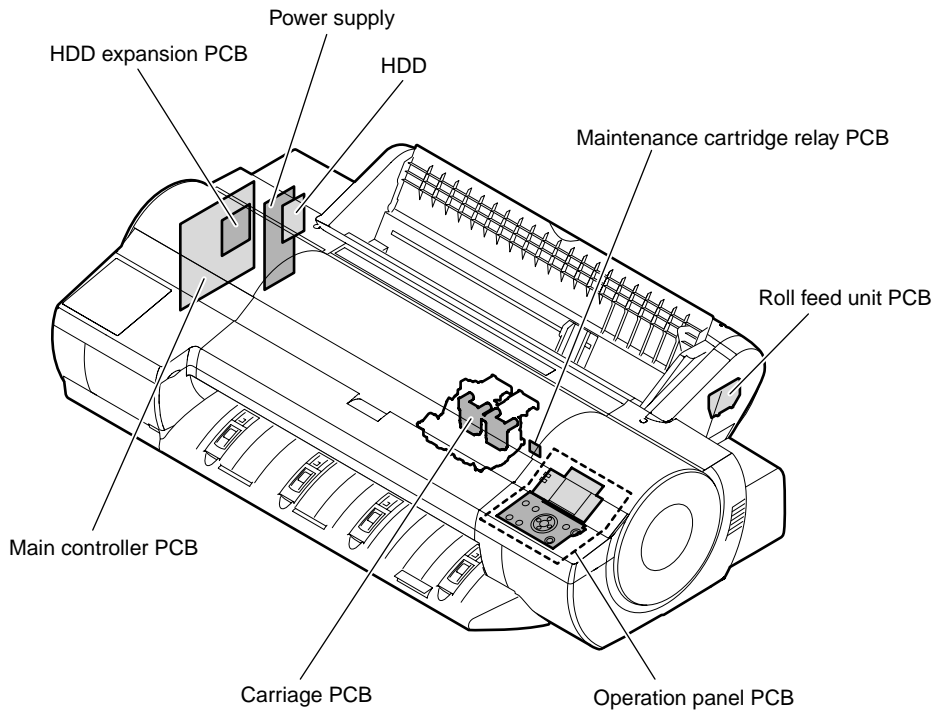


F-2-53

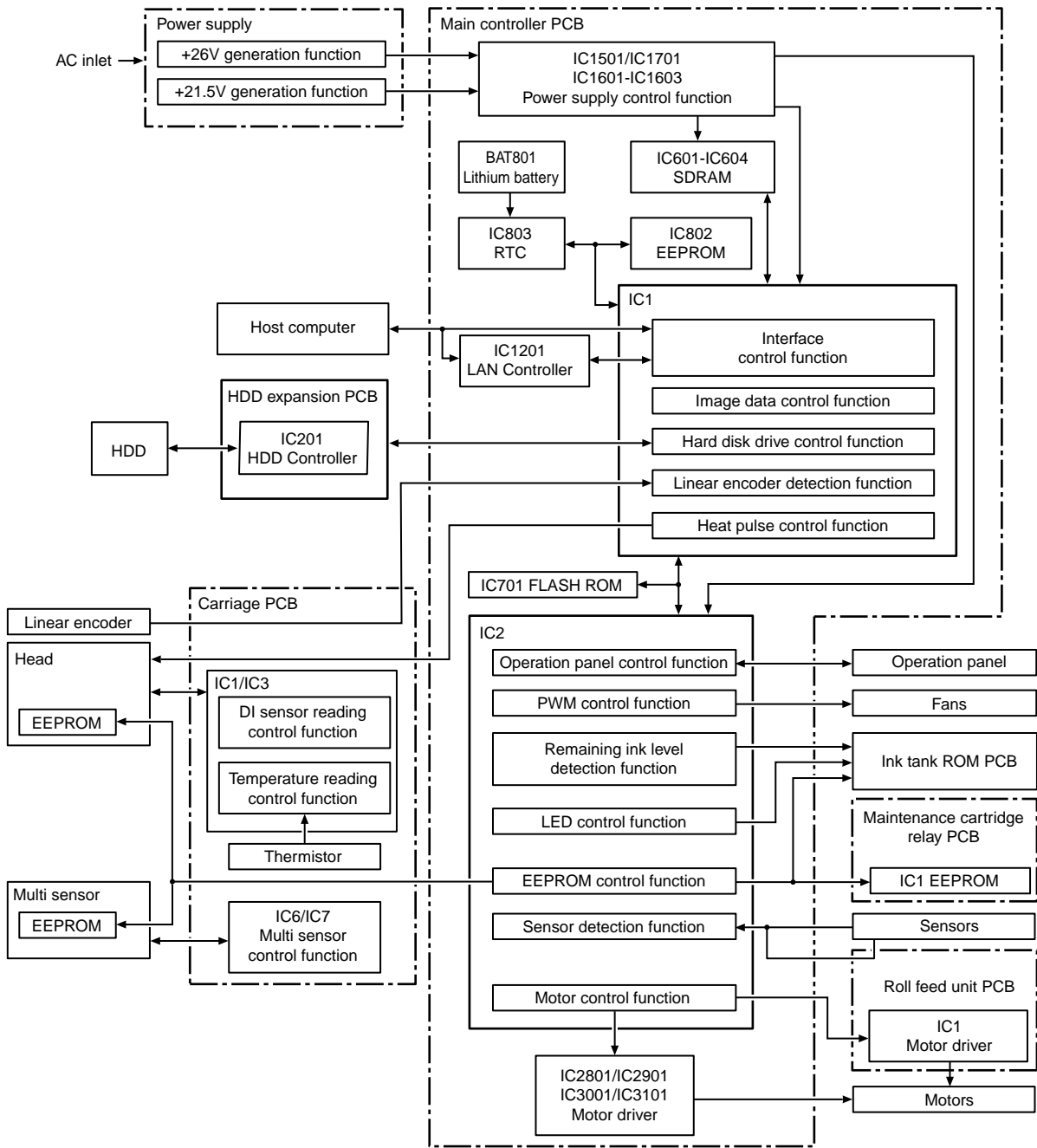
2.4.1.2 Overview

iPF6200

The printer electrical system consists of the main controller PCB and power supply PCB and hard disk drive which are mounted on the left side of the printer, the carriage PCB and print head which are mounted in the carriage, and other electrical components such as the operation panel, sensors, and motors. The main controller PCB manages the image data processing and the entire electrical system, and controls relay PCBs and driver functions.



F-2-54

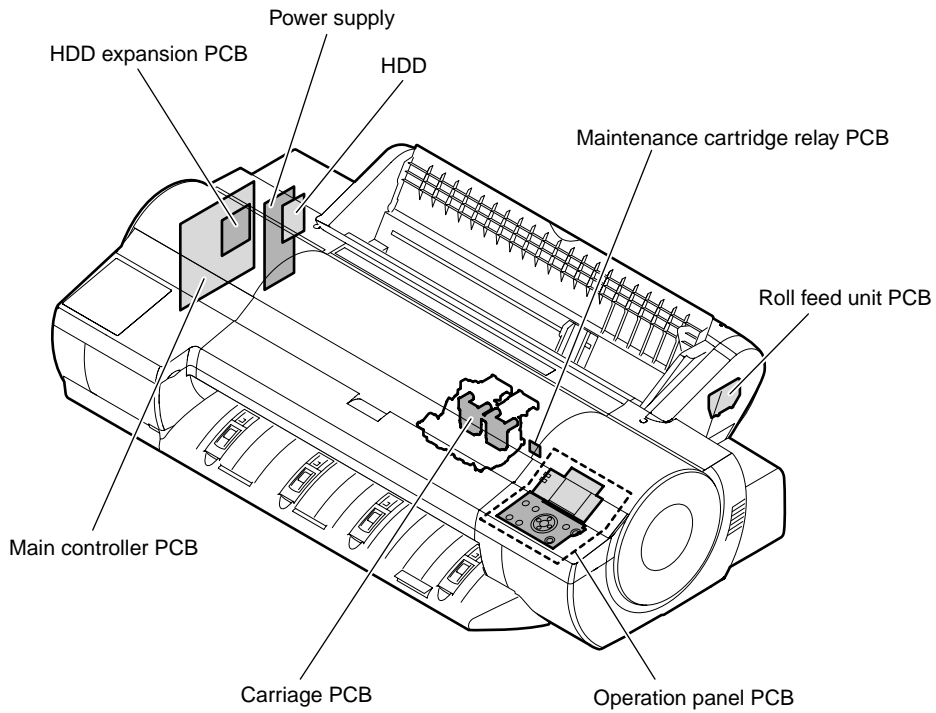


F-2-55

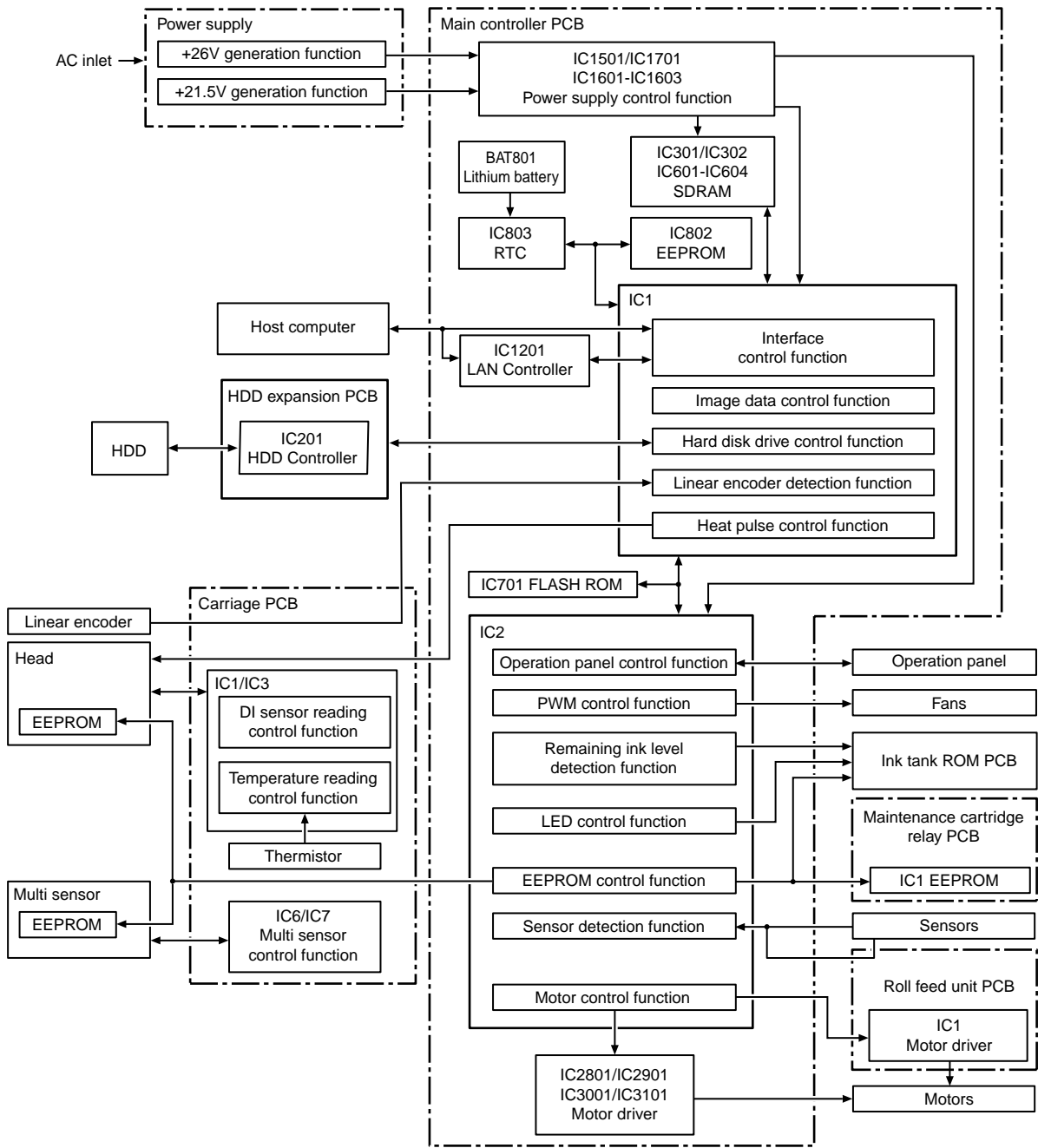
2.4.1.3 Overview

iPF6000S

The printer electrical system consists of the main controller PCB and power supply PCB and hard disk drive which are mounted on the left side of the printer, the carriage PCB and print head which are mounted in the carriage, and other electrical components such as the operation panel, sensors, and motors. The main controller PCB manages the image data processing and the entire electrical system, and controls relay PCBs and driver functions.



F-2-56

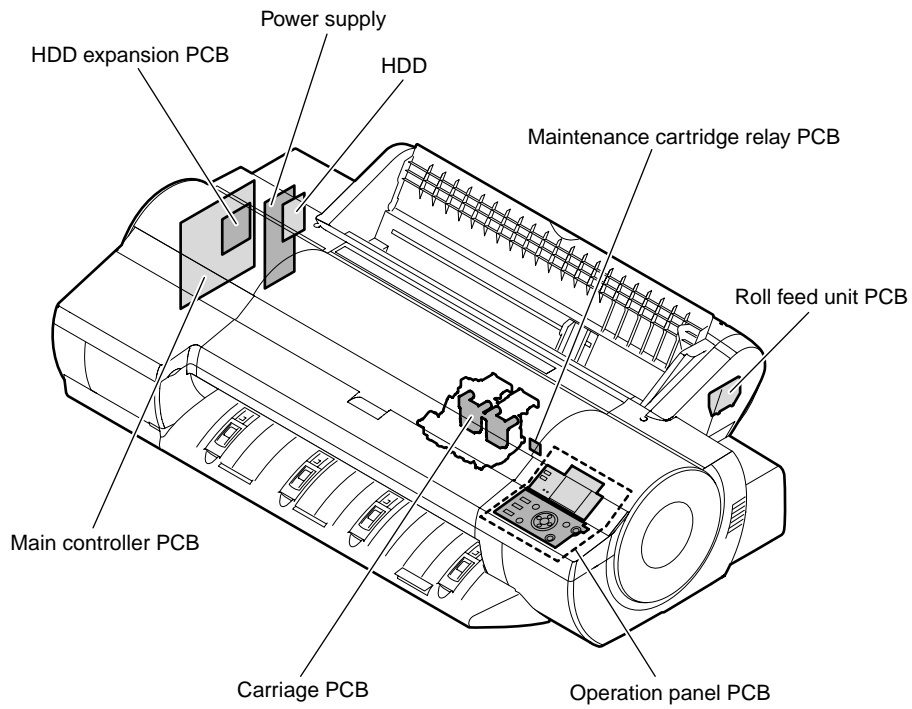


F-2-57

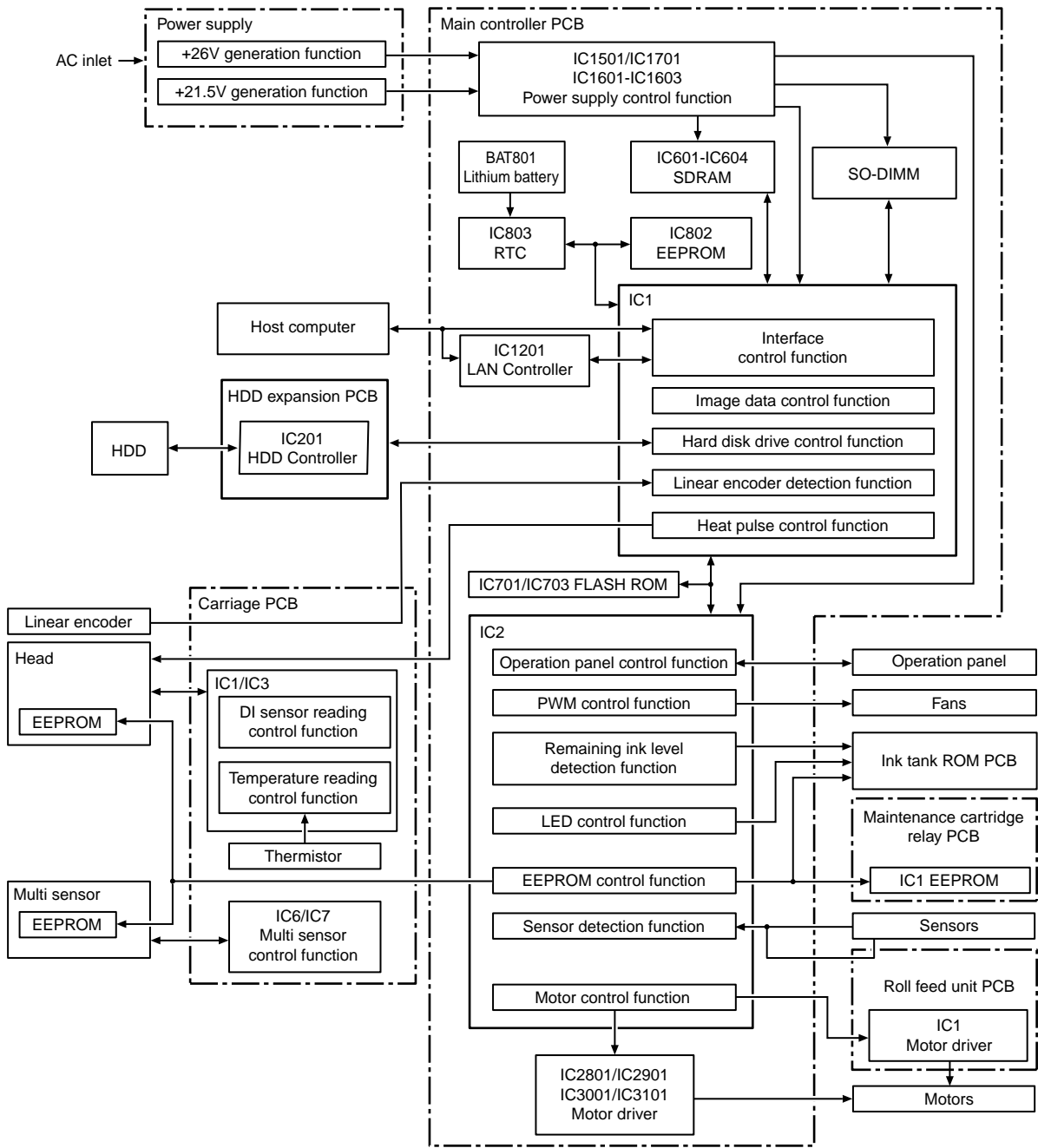
2.4.1.4 Overview

iPF6350 / iPF6300S

The printer electrical system consists of the main controller PCB and power supply PCB and hard disk drive which are mounted on the left side of the printer, the carriage PCB and print head which are mounted in the carriage, and other electrical components such as the operation panel, sensors, and motors. The main controller PCB manages the image data processing and the entire electrical system, and controls relay PCBs and driver functions.



F-2-58

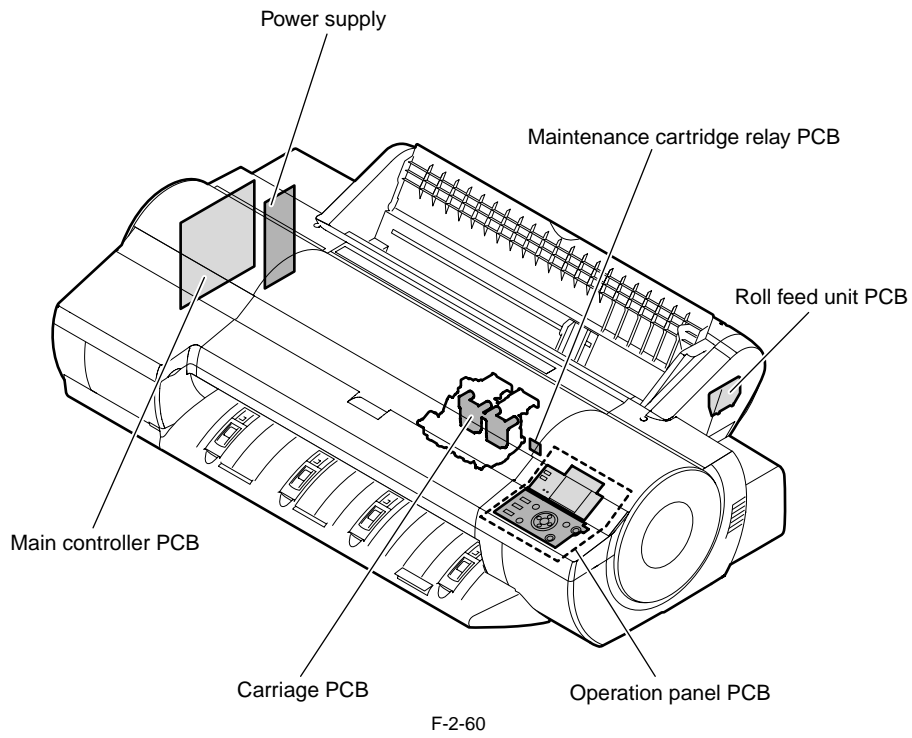


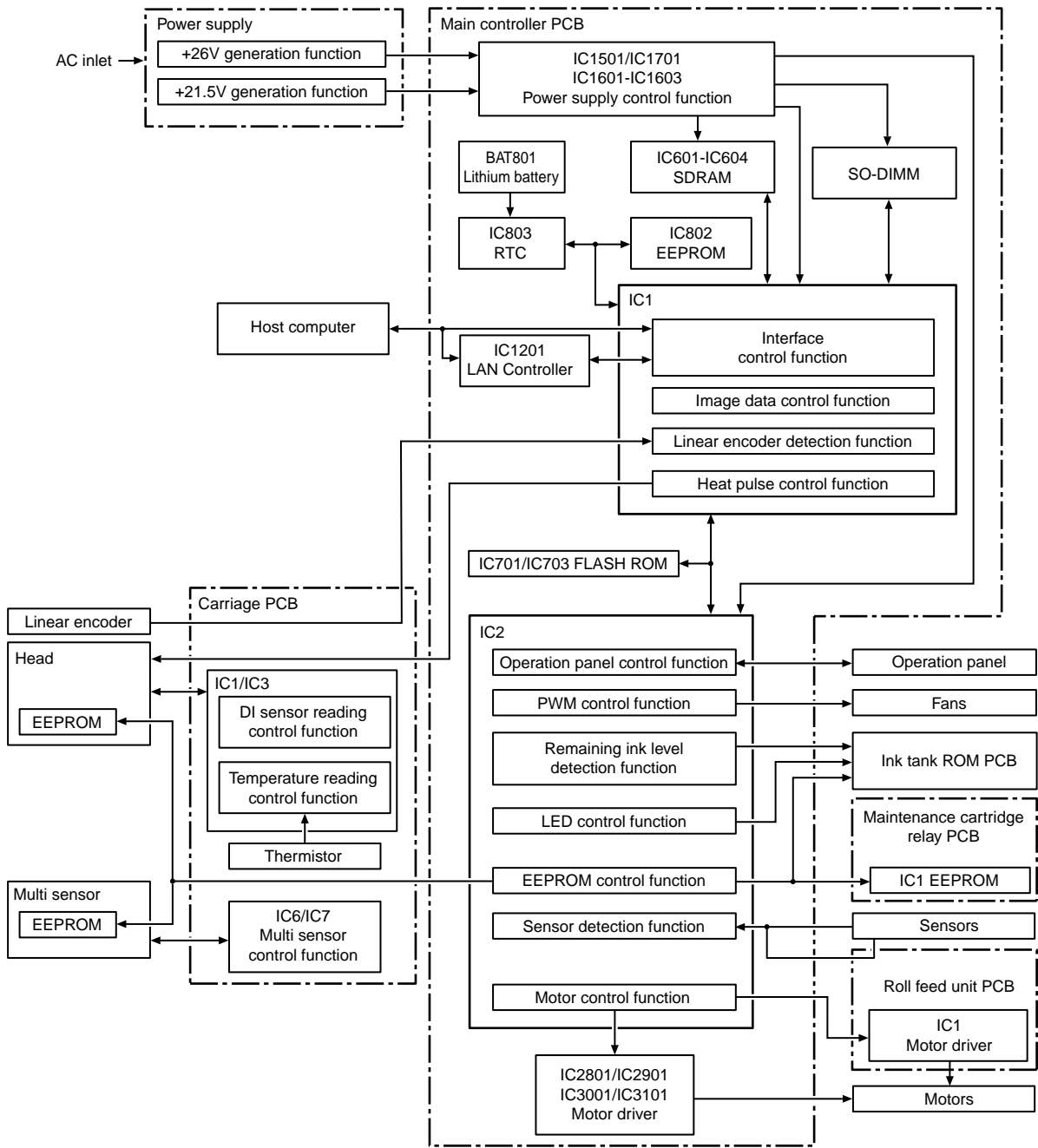
F-2-59

2.4.1.5 Overview

iPF6300

The printer electrical system consists of the main controller PCB and power supply PCB which are mounted on the left side of the printer, the carriage PCB and print head which are mounted in the carriage, and other electrical components such as the operation panel, sensors, and motors. The main controller PCB manages the image data processing and the entire electrical system, and controls relay PCBs and driver functions.



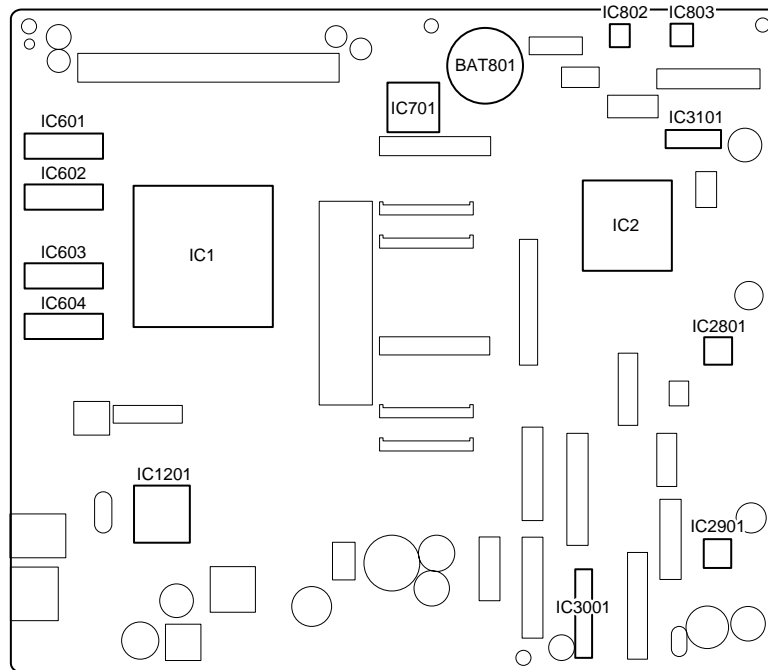


F-2-61

2.4.2 Main Controller

2.4.2.1 Main controller PCB components

iPF6100



F-2-62

a) ASIC (IC1/IC2)

The ASIC with a 16-bit internal bus is driven in sync with the 66 MHz external clock. It supports the following functions:

Image processing unit

This unit converts the RGB multi-value image data or CMYK multi-value data received from the host computer through the interface connector to the binary image data for the ink colors used.

DMA controller

This controller control DMA transfer of the data transferred through the input interfaces such as the USB and expansion card slot as well as DMA transfer of the data stored in the DIMM.

Image data generation/output function

This function generates image data for color printing from the received image data and the mask pattern (corresponding to print mode) stored in the FLASH ROM, and stored the generated image data in DIMM. It also outputs the generated image data to the carriage PCB.

Interrupt controller

This controller receives and processes internal interrupts and external interrupts from the USB, image processing unit, and expansion card slot.

Timer function

Even when the printer is turned off, the timer function is held on using the RTC(IC803) and lithium battery(BAT801) to assist the cleaning function. When the power cord is plugged to the outlet, power is supplied to the RTC and therefore the lithium battery power is not consumed.

Heat Enable signal control function

This function uses the pulse width to perform variable control of the time of application of the Heat Enable signal to the nozzle heater board for each printhead nozzle array.

Linear scale count function

This function reads the linear scale when the carriage moves, thus generating the ink discharge timing. It also counts the linear scale timing cycle using the reference clock to measure the carriage moving speed.

Dot count function

This function controls the discharge dots used as the information for Heat Enable signal control, maintenance jet control, cleaning control, and remaining ink level for each nozzle array.

Operation panel control function

This function controls serial communication with the operation panel.

PWM control function

This function controls driving of the suction fan and mist fan as well as the temperature of the printhead.

Remaining ink level detection function

This function detects the remaining level of each color of ink based on the signal received from the hollow needle mounted in the ink tank unit.

LED control function

This function controls the LEDs on the ink tank unit.

I/O port function

This function controls input signals from sensors.

Power ON/OFF control function

This function controls turning on/off of the drive power (26 V and 21.5 V) supplied from the power supply PCB.

Head DI sensor read control function

This function controls read operation by the head DI sensor.

Multi sensor control function

This function controls the LED, adjusts the gain, and controls obtainment of the reading for the multi sensor.

EEPROM control function

This function controls the EEPROMs of individual ink tanks, the maintenance cartridge EEPROM, the EEPROM on the maintenance cartridge relay PCB, and the head EEPROM in addition to the on-board EEPROM.

Motor control function

This function controls the carriage motor, feed motor, valve motor, spur motor, purge motor, lift motor, and cutter motor based on the input signals from sensors.

b) Driver IC (IC3101)

This IC generates a carriage motor control signal based on the control signal from the ASIC.

c) Driver IC (IC2801)

This IC generates feed motor and valve motor control signals based on the control signal from the ASIC.

d) Driver IC (IC2901)

This IC generates purge motor, cutter motor and spur motor control signals based on the control signal from the ASIC.

e) Driver IC (IC3001)

This IC generates a lift motor control signal based on the control signal from the ASIC.

f) DIMMs (IC601,IC602,IC603,IC604)

The DIMM comprising a 128-MB SDR-SDRAM is connected to the 32-bit data bus to be used as a work area.

During print data reception, it is also used as an image buffer.

It cannot be expanded.

g) FLASH ROM (IC701)

A 64-MB flash ROM is connected to the 8-bit data bus to store the printer control program.

h) EEPROM (IC802)

The 128-KB EEPROM stores various setting values, adjustment values, log data, counter values related to the user/servicing.

i) SO-DIMM

The 256-MB SO-DIMM (J401) is connected to the 32-bit data bus to be used as a work area.

During print data reception, it is also used as an image buffer.

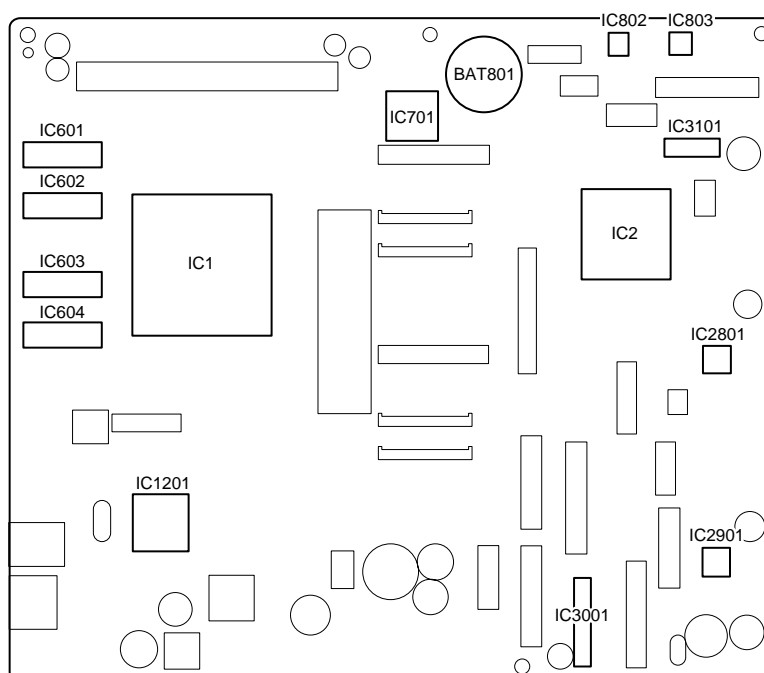
It cannot be expanded.

MEMO:

After replacement of the main controller PCB, the printer must be started up in the service mode to copy over the setting and adjustment values to the new PCB properly (the service mode will be switched to the PCB replacement mode automatically).

2.4.2.2 Main controller PCB components

iPF6200



F-2-63

a) ASIC (IC1/IC2)

The ASIC with a 16-bit internal bus is driven in sync with the 66 MHz external clock. It supports the following functions:

Image processing unit

This unit converts the RGB multi-value image data or CMYK multi-value data received from the host computer through the interface connector to the binary image

data for the ink colors used.

DMA controller

This controller control DMA transfer of the data transferred through the input interfaces such as the USB and expansion card slot as well as DMA transfer of the data stored in the DIMM.

Image data generation/output function

This function generates image data for color printing from the received image data and the mask pattern (corresponding to print mode) stored in the FLASH ROM, and stored the generated image data in DIMM. It also outputs the generated image data to the carriage PCB.

Interrupt controller

This controller receives and processes internal interrupts and external interrupts from the USB, image processing unit, and expansion card slot.

Timer function

Even when the printer is turned off, the timer function is held on using the RTC(IC803) and lithium battery(BAT801) to assist the cleaning function. When the power cord is plugged to the outlet, power is supplied to the RTC and therefore the lithium battery power is not consumed.

Heat Enable signal control function

This function uses the pulse width to perform variable control of the time of application of the Heat Enable signal to the nozzle heater board for each printhead nozzle array.

Linear scale count function

This function reads the linear scale when the carriage moves, thus generating the ink discharge timing. It also counts the linear scale timing cycle using the reference clock to measure the carriage moving speed.

Dot count function

This function controls the discharge dots used as the information for Heat Enable signal control, maintenance jet control, cleaning control, and remaining ink level for each nozzle array.

Operation panel control function

This function controls serial communication with the operation panel.

PWM control function

This function controls driving of the suction fan and mist fan as well as the temperature of the printhead.

Remaining ink level detection function

This function detects the remaining level of each color of ink based on the signal received from the hollow needle mounted in the ink tank unit.

LED control function

This function controls the LEDs on the ink tank unit.

I/O port function

This function controls input signals from sensors.

Power ON/OFF control function

This function controls turning on/off of the drive power (26 V and 21.5 V) supplied from the power supply PCB.

Head DI sensor read control function

This function controls read operation by the head DI sensor.

Multi sensor control function

This function controls the LED, adjusts the gain, and controls obtainment of the reading for the multi sensor.

EEPROM control function

This function controls the EEPROMs of individual ink tanks, the maintenance cartridge EEPROM, the EEPROM on the maintenance cartridge relay PCB, and the head EEPROM in addition to the on-board EEPROM.

Motor control function

This function controls the carriage motor, feed motor, valve motor, spur motor, purge motor, lift motor, and cutter motor based on the input signals from sensors.

HDD control function

This function controls the hard disk drive.

b) Driver IC (IC3101)

This IC generates a carriage motor control signal based on the control signal from the ASIC.

c) Driver IC (IC2801)

This IC generates feed motor and valve motor control signals based on the control signal from the ASIC.

d) Driver IC (IC2901)

This IC generates purge motor, cutter motor and spur motor control signals based on the control signal from the ASIC.

e) Driver IC (IC3001)

This IC generates a lift motor control signal based on the control signal from the ASIC.

f) DIMMs (IC601,IC602,IC603,IC604)

The DIMM comprising a 128-MB SDR-SDRAM is connected to the 32-bit data bus to be used as a work area. During print data reception, it is also used as an image buffer. It cannot be expanded.

g) FLASH ROM (IC701)

A 16-MB flash ROM is connected to the 8-bit data bus to store the printer control program.

h) EEPROM (IC802)

The 128-KB EEPROM stores various setting values, adjustment values, log data, counter values related to the user/servicing.

i) SO-DIMM

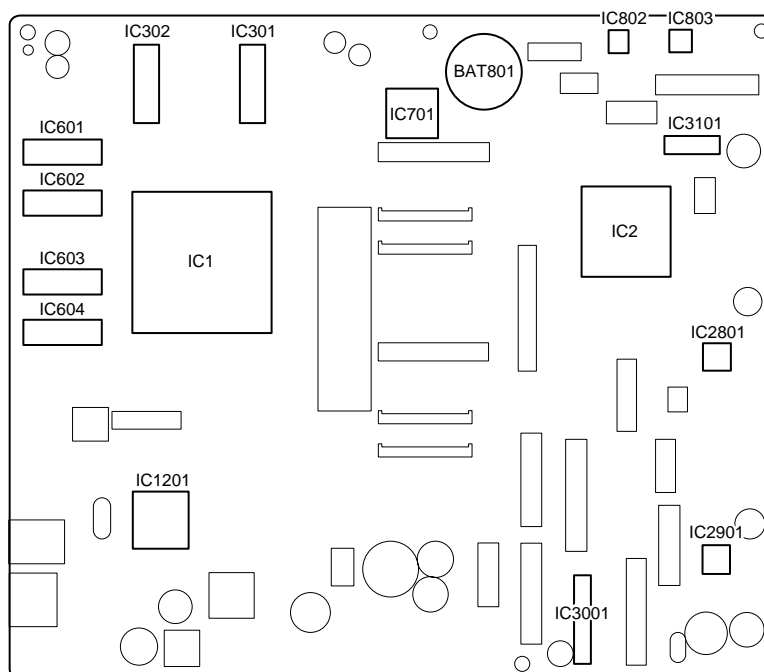
The 256-MB SO-DIMM (J401) is connected to the 32-bit data bus to be used as a work area. During print data reception, it is also used as an image buffer. It cannot be expanded.

MEMO:

After replacement of the main controller PCB, the printer must be started up in the service mode to copy over the setting and adjustment values to the new PCB properly (the service mode will be switched to the PCB replacement mode automatically).

2.4.2.3 Main controller PCB components

iPF6000S



F-2-64

a) ASIC (IC1/IC2)

The ASIC with a 16-bit internal bus is driven in sync with the 66 MHz external clock. It supports the following functions:

Image processing unit

This unit converts the RGB multi-value image data or CMYK multi-value data received from the host computer through the interface connector to the binary image data for the ink colors used.

DMA controller

This controller control DMA transfer of the data transferred through the input interfaces such as the USB and expansion card slot as well as DMA transfer of the data stored in the DIMM.

Image data generation/output function

This function generates image data for color printing from the received image data and the mask pattern (corresponding to print mode) stored in the FLASH ROM, and stored the generated image data in DIMM. It also outputs the generated image data to the carriage PCB.

Interrupt controller

This controller receives and processes internal interrupts and external interrupts from the USB, image processing unit, and expansion card slot.

Timer function

Even when the printer is turned off, the timer function is held on using the RTC(IC803) and lithium battery(BAT801) to assist the cleaning function. When the power cord is plugged to the outlet, power is supplied to the RTC and therefore the lithium battery power is not consumed.

Heat Enable signal control function

This function uses the pulse width to perform variable control of the time of application of the Heat Enable signal to the nozzle heater board for each printhead nozzle array.

Linear scale count function

This function reads the linear scale when the carriage moves, thus generating the ink discharge timing. It also counts the linear scale timing cycle using the reference clock to measure the carriage moving speed.

Dot count function

This function controls the discharge dots used as the information for Heat Enable signal control, maintenance jet control, cleaning control, and remaining ink level for each nozzle array.

Operation panel control function

This function controls serial communication with the operation panel.

PWM control function

This function controls driving of the suction fan and mist fan as well as the temperature of the printhead.

Remaining ink level detection function

This function detects the remaining level of each color of ink based on the signal received from the hollow needle mounted in the ink tank unit.

LED control function

This function controls the LEDs on the ink tank unit.

I/O port function

This function controls input signals from sensors.

Power ON/OFF control function

This function controls turning on/off of the drive power (26 V and 21.5 V) supplied from the power supply PCB.

Head DI sensor read control function

This function controls read operation by the head DI sensor.

Multi sensor control function

This function controls the LED, adjusts the gain, and controls obtainment of the reading for the multi sensor.

EEPROM control function

This function controls the EEPROMs of individual ink tanks, the maintenance cartridge EEPROM, the EEPROM on the maintenance cartridge relay PCB, and the head EEPROM in addition to the on-board EEPROM.

Motor control function

This function controls the carriage motor, feed motor, valve motor, spur motor, purge motor, lift motor, and cutter motor based on the input signals from sensors.

HDD control function

This function controls the hard disk drive.

b) Driver IC (IC3101)

This IC generates a carriage motor control signal based on the control signal from the ASIC.

c) Driver IC (IC2801)

This IC generates feed motor and valve motor control signals based on the control signal from the ASIC.

d) Driver IC (IC2901)

This IC generates purge motor, cutter motor and spur motor control signals based on the control signal from the ASIC.

e) Driver IC (IC3001)

This IC generates a lift motor control signal based on the control signal from the ASIC.

f) DIMMs (IC301,IC302,IC601,IC602,IC603,IC604)

The DIMM comprising a 256-MB SDRAM is connected to the 32-bit data bus to be used as a work area. During print data reception, it is also used as an image buffer. It cannot be expanded.

g) FLASH ROM (IC701)

A 32-MB flash ROM is connected to the 8-bit data bus to store the printer control program.

h) EEPROM (IC802)

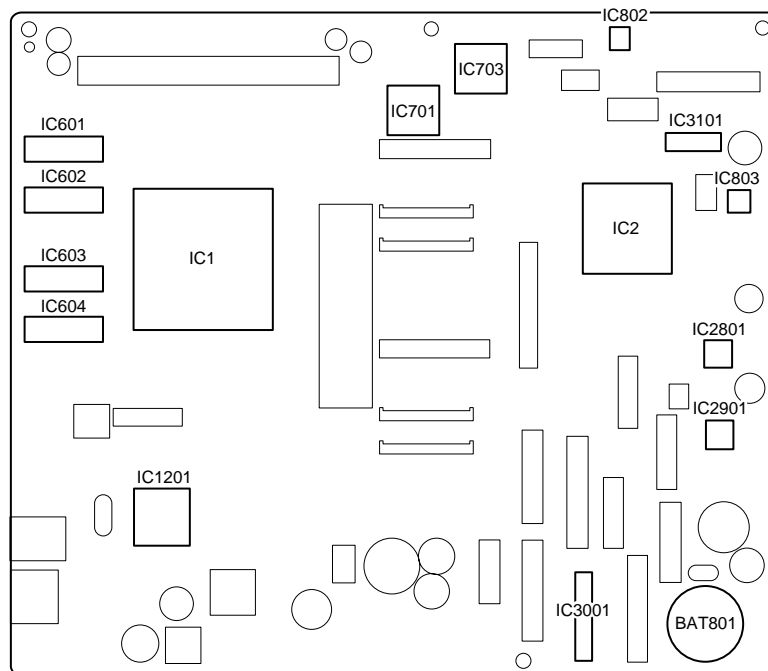
The 128-KB EEPROM stores various setting values, adjustment values, log data, counter values related to the user/servicing.

MEMO:

After replacement of the main controller PCB, the printer must be started up in the service mode to copy over the setting and adjustment values to the new PCB properly (the service mode will be switched to the PCB replacement mode automatically).

2.4.2.4 Main controller PCB components

iPF6350



F-2-65

a) ASIC (IC1/IC2)

The ASIC (IC1/IC2) with a 32/16-bit internal bus are driven in sync with the 330/66 MHz external clock. It supports the following functions:

Image processing unit

This unit converts the RGB multi-value image data or CMYK multi-value data received from the host computer through the interface connector to the binary image data for the ink colors used.

DMA controller

This controller control DMA transfer of the data transferred through the input interfaces such as the USB and expansion card slot as well as DMA transfer of the data stored in the DIMM.

Image data generation/output function

This function generates image data for color printing from the received image data and the mask pattern (corresponding to print mode) stored in the FLASH ROM, and stored the generated image data in DIMM. It also outputs the generated image data to the carriage PCB.

Interrupt controller

This controller receives and processes internal interrupts and external interrupts from the USB, image processing unit, and expansion card slot.

Timer function

Even when the printer is turned off, the timer function is held on using the RTC(IC803) and lithium battery(BAT801) to assist the cleaning function. When the power cord is plugged to the outlet, power is supplied to the RTC and therefore the lithium battery power is not consumed.

Heat Enable signal control function

This function uses the pulse width to perform variable control of the time of application of the Heat Enable signal to the nozzle heater board for each printhead nozzle array.

Linear scale count function

This function reads the linear scale when the carriage moves, thus generating the ink discharge timing. It also counts the linear scale timing cycle using the reference clock to measure the carriage moving speed.

Dot count function

This function controls the discharge dots used as the information for Heat Enable signal control, maintenance jet control, cleaning control, and remaining ink level for each nozzle array.

Operation panel control function

This function controls serial communication with the operation panel.

PWM control function

This function controls driving of the suction fan and mist fan as well as the temperature of the printhead.

Remaining ink level detection function

This function detects the remaining level of each color of ink based on the signal received from the hollow needle mounted in the ink tank unit.

LED control function

This function controls the LEDs on the ink tank unit.

I/O port function

This function controls input signals from sensors.

Power ON/OFF control function

This function controls turning on/off of the drive power (26 V and 21.5 V) supplied from the power supply PCB.

Head DI sensor read control function

This function controls read operation by the head DI sensor.

Multi sensor control function

This function controls the LED, adjusts the gain, and controls obtainment of the reading for the multi sensor.

EEPROM control function

This function controls the EEPROMs of individual ink tanks, the maintenance cartridge EEPROM, the EEPROM on the maintenance cartridge relay PCB, and the head EEPROM in addition to the on-board EEPROM.

Motor control function

This function controls the carriage motor, feed motor, valve motor, spur motor, purge motor, lift motor, cutter lift motor and cutter motor based on the input signals from sensors.

HDD control function

This function controls the hard disk drive.

b) Driver IC (IC3101)

This IC generates a carriage motor control signal based on the control signal from the ASIC.

c) Driver IC (IC2801)

This IC generates feed motor and valve motor and cutter lift motor control signals based on the control signal from the ASIC.

d) Driver IC (IC2901)

This IC generates purge motor, cutter motor and spur motor control signals based on the control signal from the ASIC.

e) Driver IC (IC3001)

This IC generates a lift motor control signal based on the control signal from the ASIC.

f) DIMM (IC601,IC602,IC603,IC604)

The DIMMs comprising a 256-MB SDR-SDRAM are connected to the 32-bit data bus to be used as a work area. During print data reception, it is also used as an image buffer. It cannot be expanded.

g) FLASH ROM (IC701/IC703)

The 128/64-MB flash ROMs (IC701/IC703) are connected to the 8-bit data bus to store the printer control program.

h) EEPROM (IC802)

The 256-KB EEPROM stores various setting values, adjustment values, log data, counter values related to the user/servicing.

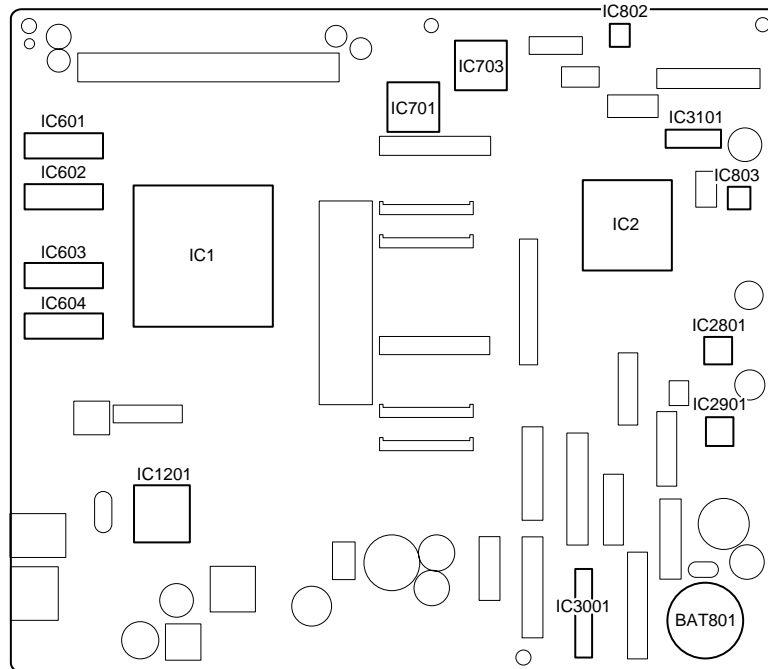
i) SO-DIMM

The 256-MB SO-DIMM (J401) is connected to the 32-bit data bus to be used as a work area. During print data reception, it is also used as an image buffer. It cannot be expanded.

MEMO:
After replacement of the main controller PCB, the printer must be started up in the service mode to copy over the setting and adjustment values to the new PCB properly (the service mode will be switched to the PCB replacement mode automatically).

2.4.2.5 Main controller PCB components

iPF6300



F-2-66

a) ASIC (IC1/IC2)

The ASIC (IC1/IC2) with a 32/16-bit internal bus are driven in sync with the 330/66 MHz external clock. It supports the following functions:

Image processing unit

This unit converts the RGB multi-value image data or CMYK multi-value data received from the host computer through the interface connector to the binary image data for the ink colors used.

DMA controller

This controller control DMA transfer of the data transferred through the input interfaces such as the USB and expansion card slot as well as DMA transfer of the data stored in the DIMM.

Image data generation/output function

This function generates image data for color printing from the received image data and the mask pattern (corresponding to print mode) stored in the FLASH ROM, and stored the generated image data in DIMM. It also outputs the generated image data to the carriage PCB.

Interrupt controller

This controller receives and processes internal interrupts and external interrupts from the USB, image processing unit, and expansion card slot.

Timer function

Even when the printer is turned off, the timer function is held on using the RTC(IC803) and lithium battery(BAT801) to assist the cleaning function. When the power cord is plugged to the outlet, power is supplied to the RTC and therefore the lithium battery power is not consumed.

Heat Enable signal control function

This function uses the pulse width to perform variable control of the time of application of the Heat Enable signal to the nozzle heater board for each printhead nozzle array.

Linear scale count function

This function reads the linear scale when the carriage moves, thus generating the ink discharge timing. It also counts the linear scale timing cycle using the reference clock to measure the carriage moving speed.

Dot count function

This function controls the discharge dots used as the information for Heat Enable signal control, maintenance jet control, cleaning control, and remaining ink level for each nozzle array.

Operation panel control function

This function controls serial communication with the operation panel.

PWM control function

This function controls driving of the suction fan and mist fan as well as the temperature of the printhead.

Remaining ink level detection function

This function detects the remaining level of each color of ink based on the signal received from the hollow needle mounted in the ink tank unit.

LED control function

This function controls the LEDs on the ink tank unit.

I/O port function

This function controls input signals from sensors.

Power ON/OFF control function

This function controls turning on/off of the drive power (26 V and 21.5 V) supplied from the power supply PCB.

Head DI sensor read control function

This function controls read operation by the head DI sensor.

Multi sensor control function

This function controls the LED, adjusts the gain, and controls obtainment of the reading for the multi sensor.

EEPROM control function

This function controls the EEPROMs of individual ink tanks, the maintenance cartridge EEPROM, the EEPROM on the maintenance cartridge relay PCB, and the head EEPROM in addition to the on-board EEPROM.

Motor control function

This function controls the carriage motor, feed motor, valve motor, spur motor, purge motor, lift motor, cutter lift motor and cutter motor based on the input signals from sensors.

b) Driver IC (IC3101)

This IC generates a carriage motor control signal based on the control signal from the ASIC.

c) Driver IC (IC2801)

This IC generates feed motor and valve motor and cutter lift motor control signals based on the control signal from the ASIC.

d) Driver IC (IC2901)

This IC generates purge motor, cutter motor and spur motor control signals based on the control signal from the ASIC.

e) Driver IC (IC3001)

This IC generates a lift motor control signal based on the control signal from the ASIC.

f) DIMM (IC601,IC602,IC603,IC604)

The DIMMs comprising a 256-MB SDR-SDRAM are connected to the 32-bit data bus to be used as a work area. During print data reception, it is also used as an image buffer. It cannot be expanded.

g) FLASH ROM (IC701/IC703)

The 128/64-MB flash ROMs (IC701/IC703) are connected to the 8-bit data bus to store the printer control program.

h) EEPROM (IC802)

The 256-KB EEPROM stores various setting values, adjustment values, log data, counter values related to the user/servicing.

i) SO-DIMM

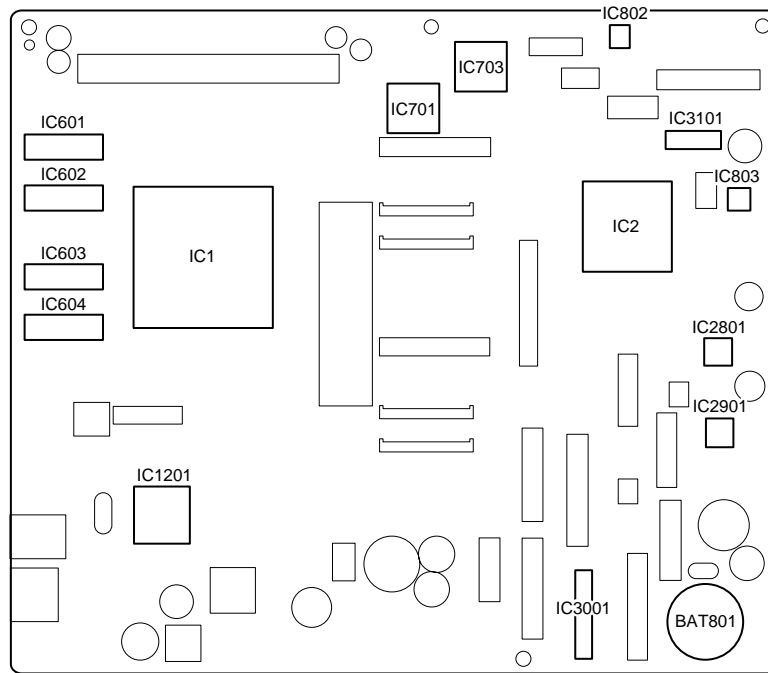
The 256-MB SO-DIMM (J401) is connected to the 32-bit data bus to be used as a work area. During print data reception, it is also used as an image buffer. It cannot be expanded.

MEMO:

After replacement of the main controller PCB, the printer must be started up in the service mode to copy over the setting and adjustment values to the new PCB properly (the service mode will be switched to the PCB replacement mode automatically).

2.4.2.6 Main controller PCB components

iPF6300S



F-2-67

a) ASIC (IC1/IC2)

The ASIC (IC1/IC2) with a 32/16-bit internal bus are driven in sync with the 330/66 MHz external clock. It supports the following functions:

Image processing unit

This unit converts the RGB multi-value image data or CMYK multi-value data received from the host computer through the interface connector to the binary image data for the ink colors used.

DMA controller

This controller control DMA transfer of the data transferred through the input interfaces such as the USB and expansion card slot as well as DMA transfer of the data stored in the DIMM.

Image data generation/output function

This function generates image data for color printing from the received image data and the mask pattern (corresponding to print mode) stored in the FLASH ROM, and stored the generated image data in DIMM. It also outputs the generated image data to the carriage PCB.

Interrupt controller

This controller receives and processes internal interrupts and external interrupts from the USB, image processing unit, and expansion card slot.

Timer function

Even when the printer is turned off, the timer function is held on using the RTC(IC803) and lithium battery(BAT801) to assist the cleaning function. When the power cord is plugged to the outlet, power is supplied to the RTC and therefore the lithium battery power is not consumed.

Heat Enable signal control function

This function uses the pulse width to perform variable control of the time of application of the Heat Enable signal to the nozzle heater board for each printhead nozzle array.

Linear scale count function

This function reads the linear scale when the carriage moves, thus generating the ink discharge timing. It also counts the linear scale timing cycle using the reference clock to measure the carriage moving speed.

Dot count function

This function controls the discharge dots used as the information for Heat Enable signal control, maintenance jet control, cleaning control, and remaining ink level for each nozzle array.

Operation panel control function

This function controls serial communication with the operation panel.

PWM control function

This function controls driving of the suction fan and mist fan as well as the temperature of the printhead.

Remaining ink level detection function

This function detects the remaining level of each color of ink based on the signal received from the hollow needle mounted in the ink tank unit.

LED control function

This function controls the LEDs on the ink tank unit.

I/O port function

This function controls input signals from sensors.

Power ON/OFF control function

This function controls turning on/off of the drive power (26 V and 21.5 V) supplied from the power supply PCB.

Head DI sensor read control function

This function controls read operation by the head DI sensor.

Multi sensor control function

This function controls the LED, adjusts the gain, and controls obtainment of the reading for the multi sensor.

EEPROM control function

This function controls the EEPROMs of individual ink tanks, the maintenance cartridge EEPROM, the EEPROM on the maintenance cartridge relay PCB, and the head EEPROM in addition to the on-board EEPROM.

Motor control function

This function controls the carriage motor, feed motor, valve motor, spur motor, purge motor, lift motor, cutter lift motor and cutter motor based on the input signals from sensors.

HDD control function

This function controls the hard disk drive.

b) Driver IC (IC3101)

This IC generates a carriage motor control signal based on the control signal from the ASIC.

c) Driver IC (IC2801)

This IC generates feed motor and valve motor and cutter lift motor control signals based on the control signal from the ASIC.

d) Driver IC (IC2901)

This IC generates purge motor, cutter motor and spur motor control signals based on the control signal from the ASIC.

e) Driver IC (IC3001)

This IC generates a lift motor control signal based on the control signal from the ASIC.

f) DIMM (IC601,IC602,IC603,IC604)

The DIMMs comprising a 256-MB SDR-SDRAM are connected to the 32-bit data bus to be used as a work area.

During print data reception, it is also used as an image buffer.

It cannot be expanded.

g) FLASH ROM (IC701/IC703)

The 128/64-MB flash ROMs (IC701/IC703) are connected to the 8-bit data bus to store the printer control program.

h) EEPROM (IC802)

The 256-KB EEPROM stores various setting values, adjustment values, log data, counter values related to the user/servicing.

i) SO-DIMM

The 256-MB SO-DIMM (J401) is connected to the 32-bit data bus to be used as a work area.

During print data reception, it is also used as an image buffer.

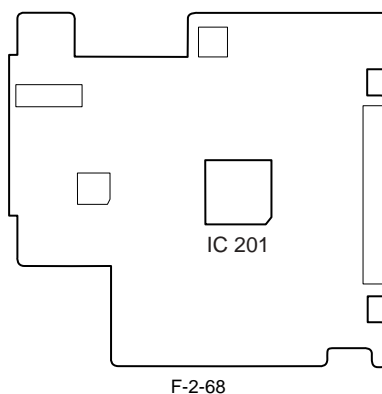
It cannot be expanded.

MEMO:

After replacement of the main controller PCB, the printer must be started up in the service mode to copy over the setting and adjustment values to the new PCB properly (the service mode will be switched to the PCB replacement mode automatically).

2.4.2.7 HDD expansion PCB components

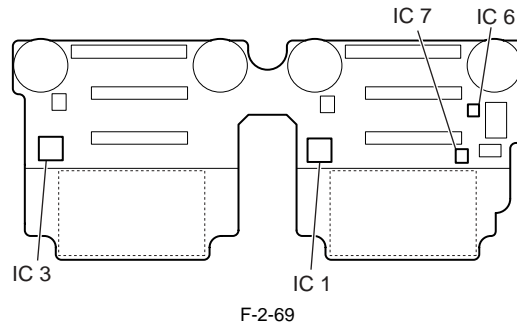
iPF6200 / iPF6000S / iPF6350 / iPF6300S

**a) HDD controller IC (IC201)**

This controller control the hard disk drive.

2.4.3 Carriage Relay PCB**2.4.3.1 Carriage PCB components**

iPF6100 / iPF6200 / iPF6000S / iPF6300 / iPF6350 / iPF6300S



a) Latch ICs (IC1 and IC3)

DI sensor reading control function

This function obtains the DI sensor value in the printhead and head rank for each color and sends it to the main controller PCB based on the control signals from the main controller.

Environmental temperature reading control

This function sends the environmental temperature detected by the thermistor on the board based t the main controller PCB based on the control signals from the main controller PCB.

Image data relay function

This function relays the image data from the main controller PCB to the printhead. The function for processing image data is not supported.

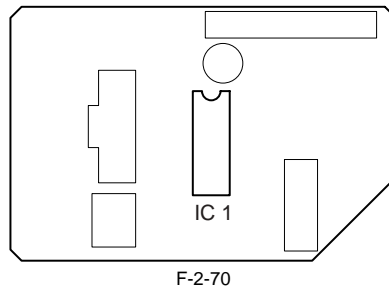
b) Multi sensor control ICs (IC6 and IC7)

These ICs are used to generate the multi sensor LED control signal and adjust the gain.

2.4.4 Motor Driver

2.4.4.1 Roll feed unit PCB components

iPF6100 / iPF6200 / iPF6000S / iPF6300 / iPF6350 / iPF6300S



a) Driver IC (IC1)

Roll motor drive function

This function controls the roll motor based on the control signals from the main controller.

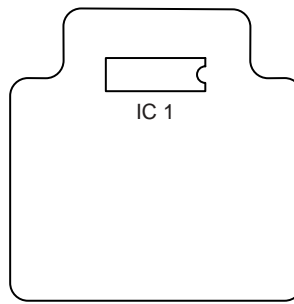
Sensor relay function

This function relays the input signals from the roll cam sensor and roll media sensor to the main controller PCB.

2.4.5 Maintenance Cartridge Relay PCB

2.4.5.1 Maintenance cartridge relay PCB components

iPF6100 / iPF6200 / iPF6000S / iPF6300 / iPF6350 / iPF6300S



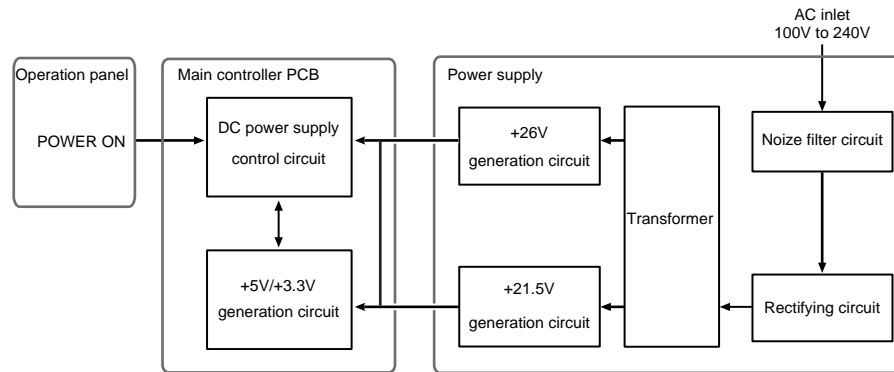
a) EEPROM (IC1)

The 2KB EEPROM stores all information written to the EEPROM on the main controller PCB.

2.4.6 Power Supply

2.4.6.1 Power supply block diagram

iPF6100 / iPF6200 / iPF6000S / iPF6300 / iPF6350 / iPF6300S



F-2-72

The power supply converts AC voltages ranging from 100 V to 240 V from the AC inlet to DC voltages for driving the ICs, motor, and others.

The voltage generator circuits include the +26 V generation circuit for driving motors, fans, and sensors and a +21.5 V generator circuit for driving sensors, heads, logic circuits, and others.

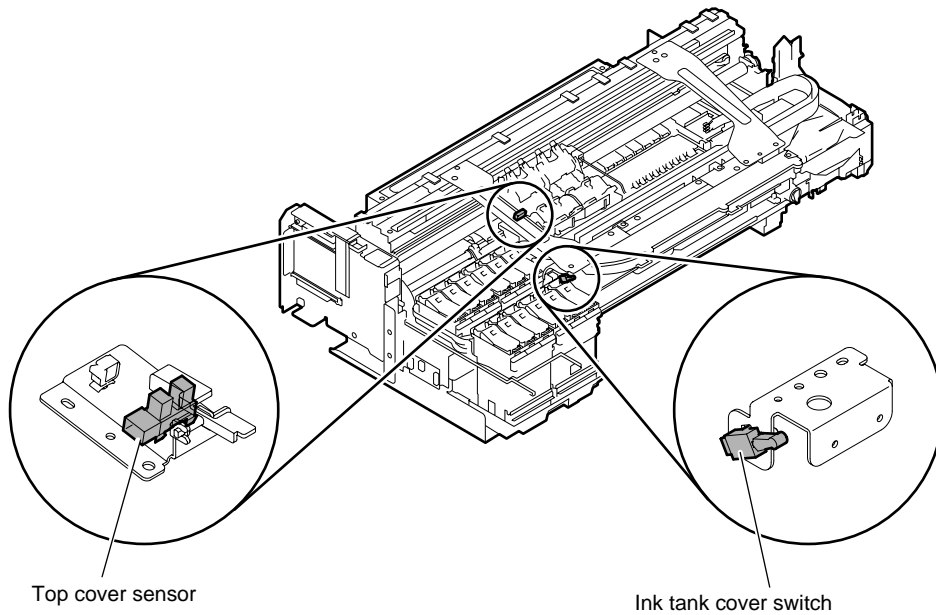
When the power is turned off, +26 V and +21.5 V are reduced to about 12 V and 9 V respectively (power save mode).

Power ON/OFF operation is controlled by the main controller PCB.

2.5 Detection Functions with Sensors

2.5.1 Sensors for covers

iPF6100 / iPF6200 / iPF6000S / iPF6300 / iPF6350 / iPF6300S



F-2-73

Top cover sensor

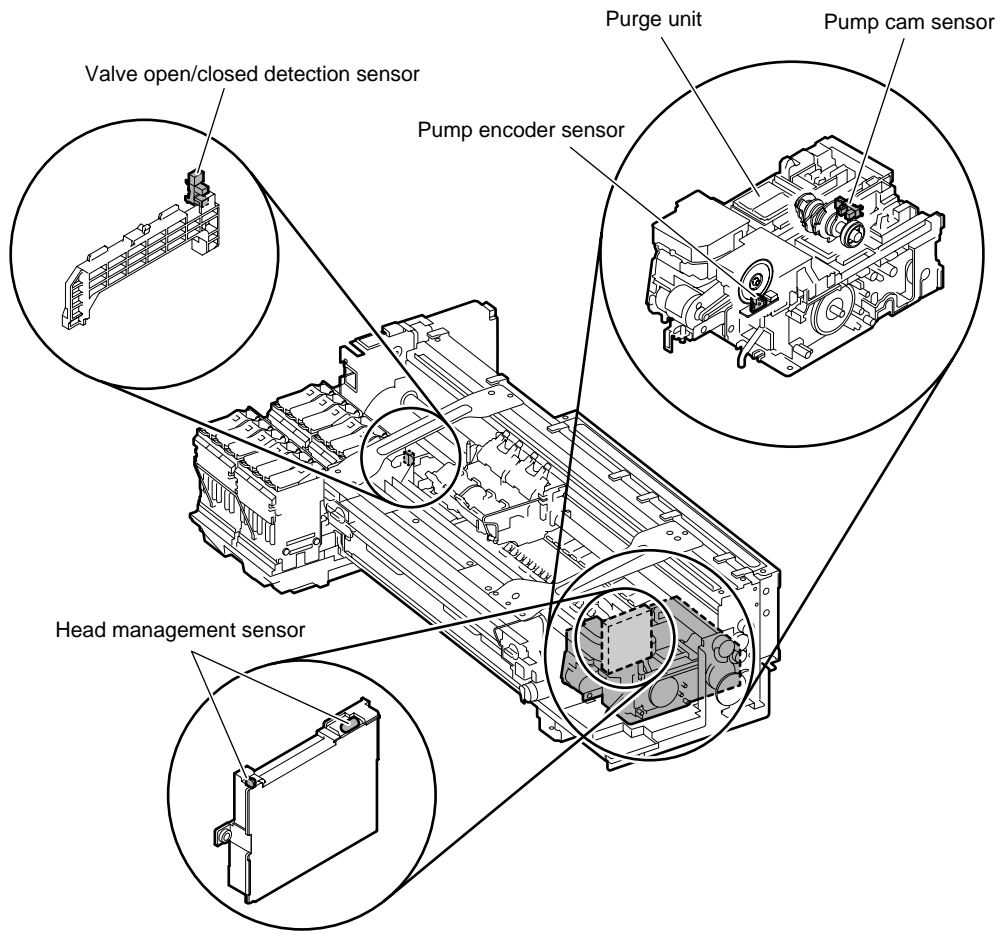
The photo-interrupter-type top cover sensors detect opening and closing of the top cover. When the top cover is closed, the sensor light is shielded by the sensor arm, thus notifying the sensor of closing the cover.

Ink tank cover switch

The micro-switch-type ink tank cover switch detects opening and closing of the ink tank cover. When the ink tank cover is closed, the protrusion on the ink tank cover presses the switch, thus detecting closing of the ink tank cover.

2.5.2 Ink passage system

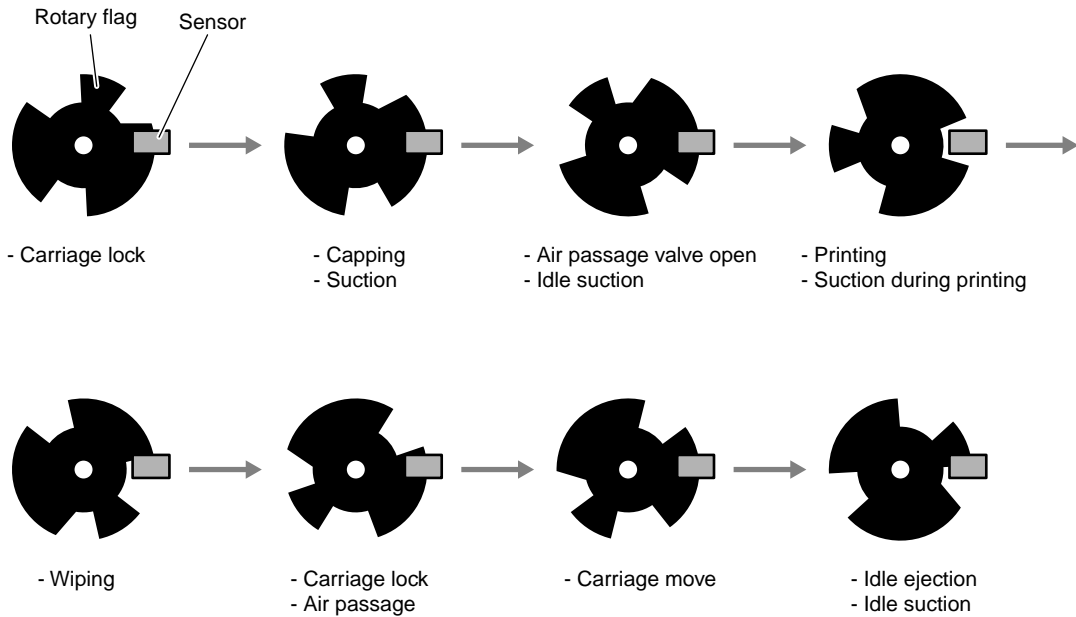
iPF6100 / iPF6200



F-2-74

Pump cam sensor

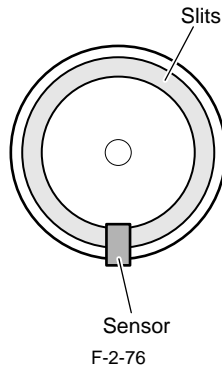
The photo-interrupter-type pump cam sensor detects that the sensor light is shielded or unshielded by the rotary cam. The sensor detects the purge unit capping and wiping states with the combination of the state detected by the pump cam and the state of pump motor rotation control performed by the pump encoder.



F-2-75

Pump encoder sensor

The pump encoder is a photo-interruptive type sensor. It reads the slits on the pump motor's encoder film to control the amount of pump motor rotation.

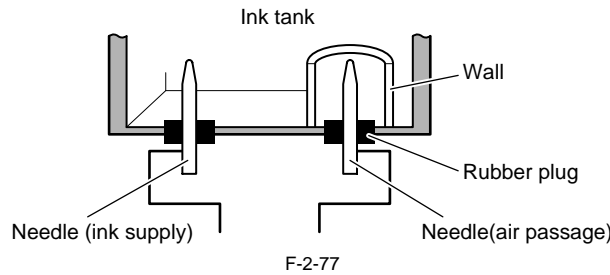


Valve open/closed detection sensor

The photo-interrupter-type valve open/closed detection sensor detects the valve cam state. When the link that operates in conjunction with the valve cam shields light, this sensor detects that the ink supply valve has been opened.

Ink detection sensor

Presence of absence of ink in the ink tank is detected according to whether the two hollow needles are electrically connected. When the ink level in the ink tank lowers below the wall around the hollow needle at the air passage, this hollow needle is electrically disconnected from the hollow needle located on the ink supply side, thus detecting that the printer has run out of ink.



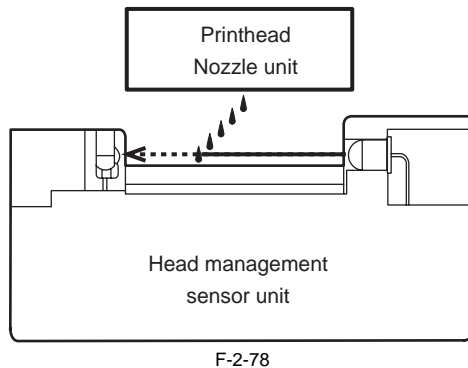
Head management sensor

The photo-transmission-type sensor detects that the printhead is discharging ink. The carriage moves to and stops at the detection positions for individual nozzle arrays. When the carriage is at a stop, nozzles discharge ink one after another. The sensor detects each nozzle due to the voltage change caused when ink discharged from the nozzle blocks the sensor light.

- Non-discharging nozzle detection is carried out at the following timings:
- After the execution of Cleaning 1, Cleaning 2, Cleaning 3, Cleaning 6 or Cleaning 10
 - After the number of copies that has been set by the user menu choice Nozzle Check Frequency have been printed

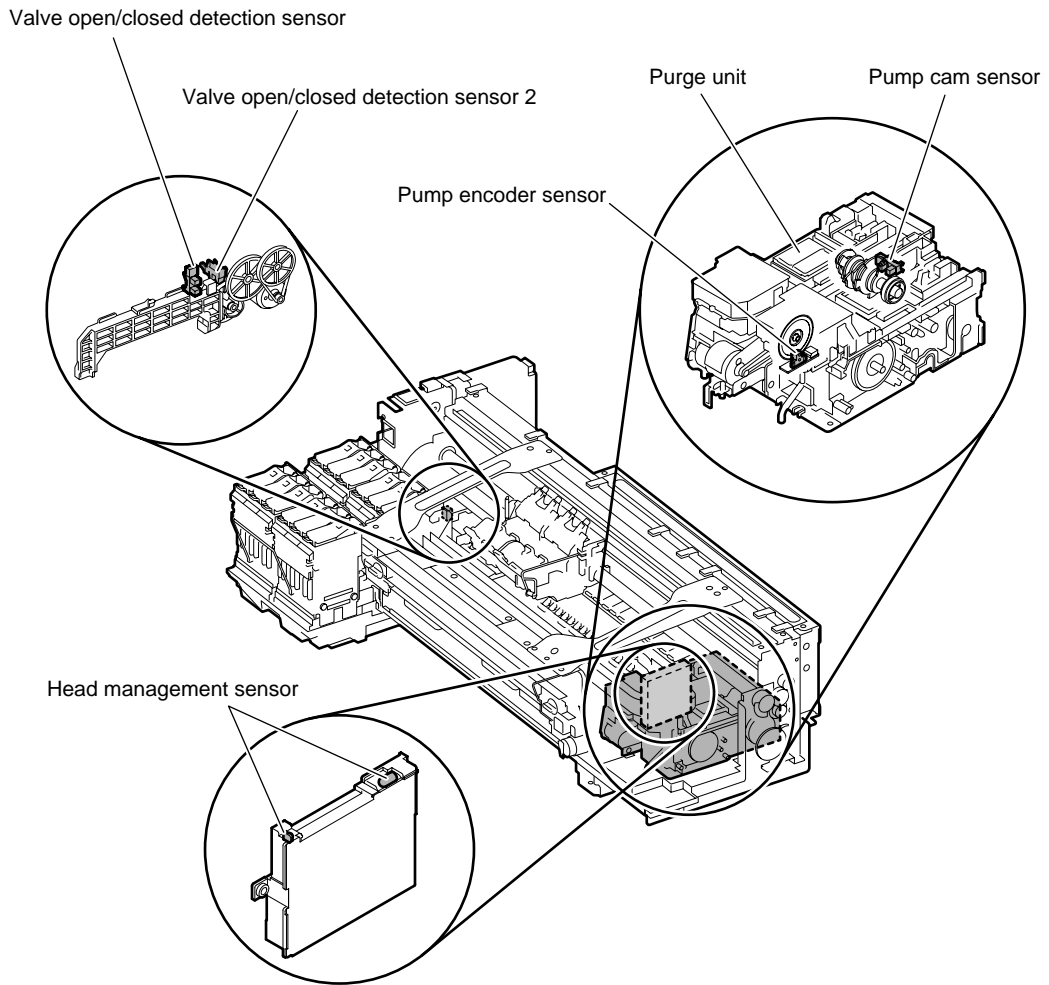
If more than a specified number of non-discharging nozzles have been located in one session of non-discharging nozzle detection, the normal cleaning sequence is launched before a second session of non-discharging nozzle detection is conducted. If more than a specified number of non-discharging nozzles are located in the second session of non-discharging nozzle detection, the normal (High) cleaning session is launched before a third session of non-discharging nozzle detection is conducted.

If 30 or more non-discharging nozzles and less than 100 non-discharging nozzles per train are located as a result of the third session of non-discharging nozzle detection, the print operation can resume after the message display as needed. If 100 or more non-discharging nozzles are located, a head replacement prompt message is displayed.



2.5.3 Ink passage system

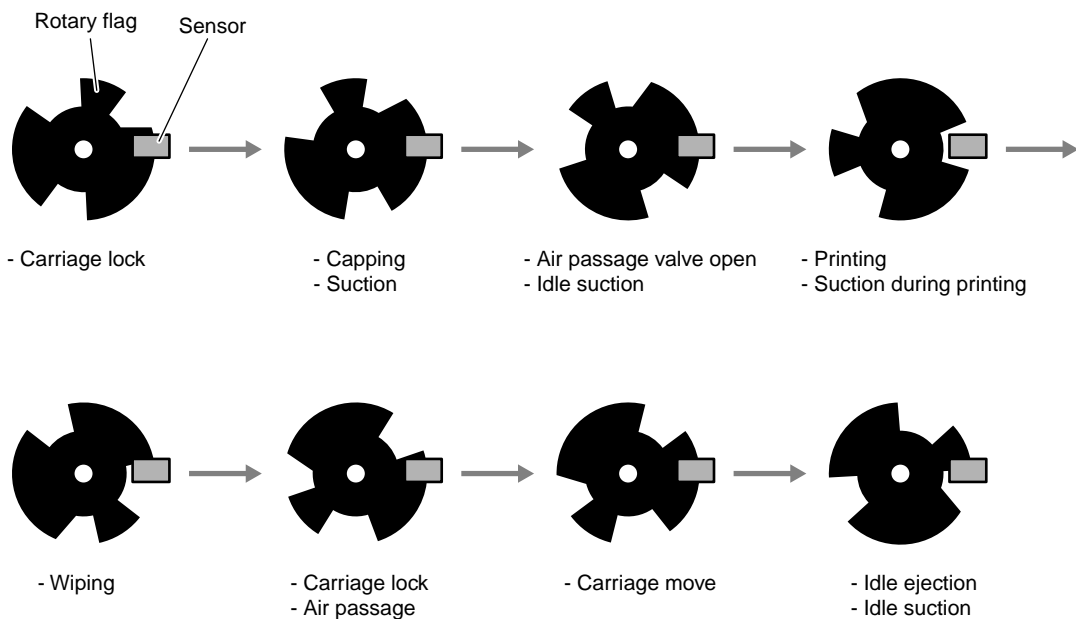
iPF6000S



F-2-79

Pump cam sensor

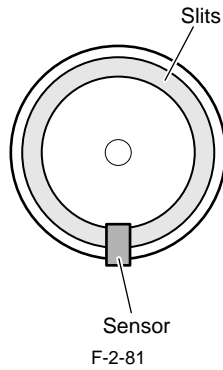
The photo-interrupter-type pump cam sensor detects that the sensor light is shielded or unshielded by the rotary cam. The sensor detects the purge unit capping and wiping states with the combination of the state detected by the pump cam and the state of pump motor rotation control performed by the pump encoder.



F-2-80

Pump encoder sensor

The pump encoder is a photo-interruptive type sensor. It reads the slits on the pump motor's encoder film to control the amount of pump motor rotation.

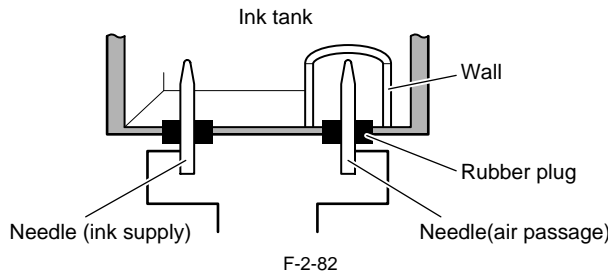


Valve open/closed detection sensor/Valve open/closed detection sensor 2

The photo-interrupter-type valve open/closed detection sensor/valve open closed detection sensor 2 detect the valve cam state. When the link that operates in conjunction with the valve cam shields light, this sensors detect that the ink supply valve has been opened.

Ink detection sensor

Presence of absence of ink in the ink tank is detected according to whether the two hollow needles are electrically connected. When the ink level in the ink tank lowers below the wall around the ink passage, this hollow needle is electrically disconnected from the hollow needle located on the ink supply side, thus detecting that the printer has run out of ink.



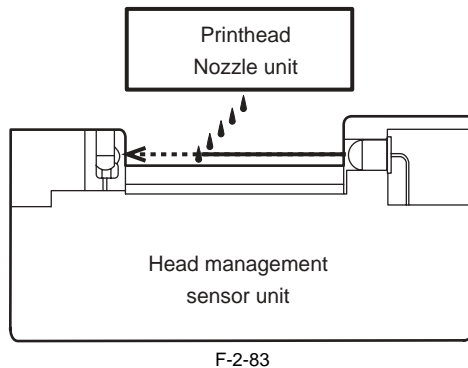
Head management sensor

The photo-transmission-type sensor detects that the printhead is discharging ink. The carriage moves to and stops at the detection positions for individual nozzle arrays. When the carriage is at a stop, nozzles discharge ink on after another. The sensor detects each nozzle due to the voltage change caused when ink discharged from the nozzle blocks the sensor light.

- Non-discharging nozzle detection is carried out at the following timings:
- After the execution of Cleaning 1, Cleaning 2, Cleaning 3, Cleaning 6 or Cleaning 10
 - After the number of copies that has been set by the user menu choice Nozzle Check Frequency have been printed

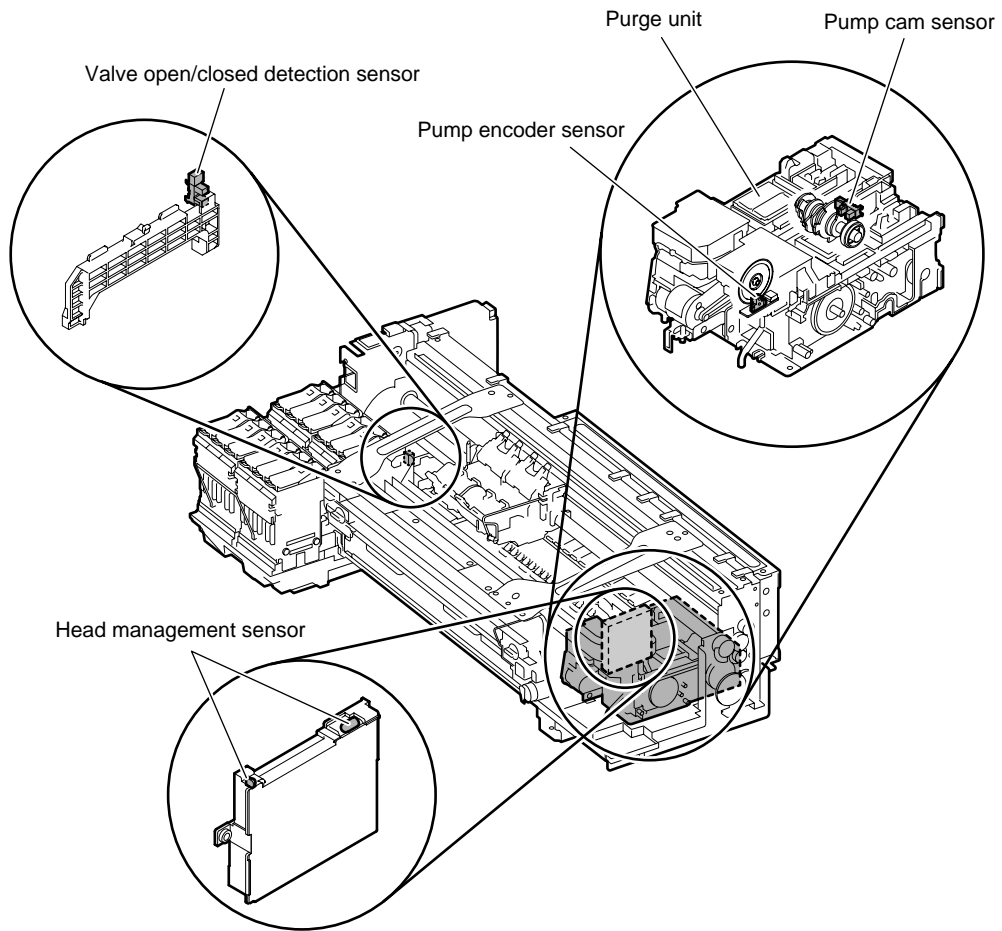
If more than a specified number of non-discharging nozzles have been located in one session of non-discharging nozzle detection, the normal cleaning sequence is launched before a second session of non-discharging nozzle detection is conducted. If more than a specified number of non-discharging nozzles are located in the second session of non-discharging nozzle detection, the normal (High) cleaning session is launched before a third session of non-discharging nozzle detection is conducted.

If 30 or more non-discharging nozzles and less than 100 non-discharging nozzles per train are located as a result of the third session of non-discharging nozzle detection, the print operation can resume after the message display as needed. If 100 or more non-discharging nozzles are located, a head replacement prompt message is displayed.



2.5.4 Ink passage system

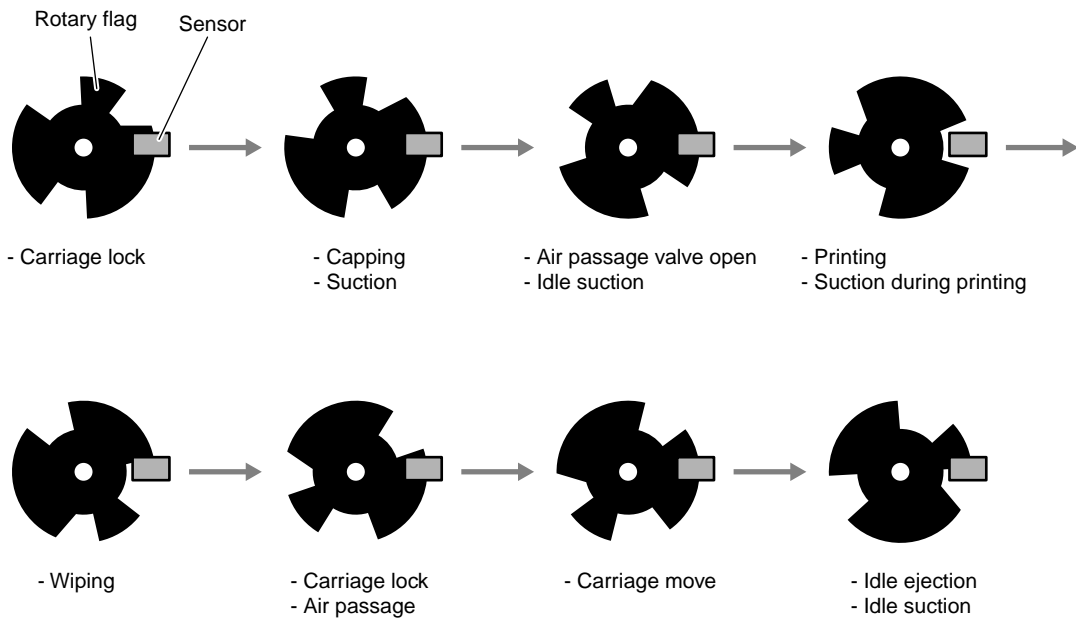
iPF6300 / iPF6350



F-2-84

Pump cam sensor

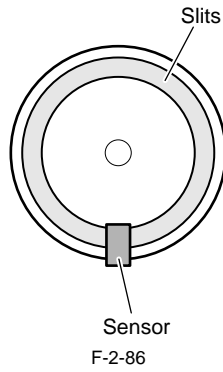
The photo-interrupter-type pump cam sensor detects that the sensor light is shielded or unshielded by the rotary cam. The sensor detects the purge unit capping and wiping states with the combination of the state detected by the pump cam and the state of pump motor rotation control performed by the pump encoder.



F-2-85

Pump encoder sensor

The pump encoder is a photo-interruptive type sensor. It reads the slits on the pump motor's encoder film to control the amount of pump motor rotation.

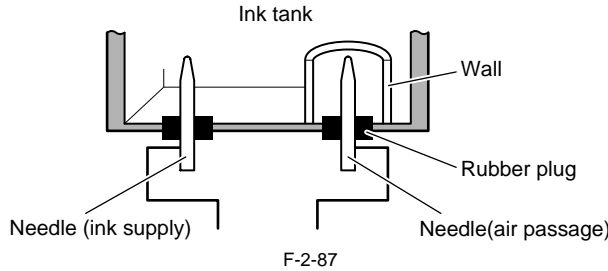


Valve open/closed detection sensor

The photo-interrupter-type valve open/closed detection sensor detects the valve cam state. When the link that operates in conjunction with the valve cam shields light, this sensor detects that the ink supply valve has been opened.

Ink detection sensor

Presence of absence of ink in the ink tank is detected according to whether the two hollow needles are electrically connected. When the ink level in the ink tank lowers below the wall around the hollow needle at the air passage, this hollow needle is electrically disconnected from the hollow needle located on the ink supply side, thus detecting that the printer has run out of ink.



Head management sensor

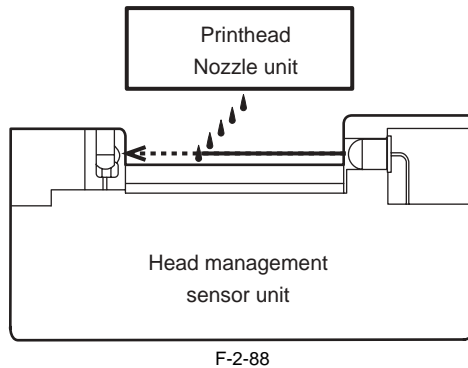
The photo-transmission-type sensor detects that the printhead is discharging ink. The carriage moves to and stops at the detection positions for individual nozzle arrays. When the carriage is at a stop, nozzles discharge ink one after another. The sensor detects each nozzle due to the voltage change caused when ink discharged from the nozzle blocks the sensor light.

- Non-discharging nozzle detection is carried out at the following timings:
- After the execution of Cleaning 1, Cleaning 2, Cleaning 3, Cleaning 6 or Cleaning 10
 - After the number of copies that has been set by the user menu choice Nozzle Check Frequency have been printed

If more than a specified number of non-discharging nozzles have been located in one session of non-discharging nozzle detection, the normal cleaning sequence is launched before a second session of non-discharging nozzle detection is conducted. If more than a specified number of non-discharging nozzles are located in the second session of non-discharging nozzle detection, the normal (High) cleaning session is launched before a third session of non-discharging nozzle detection is conducted.

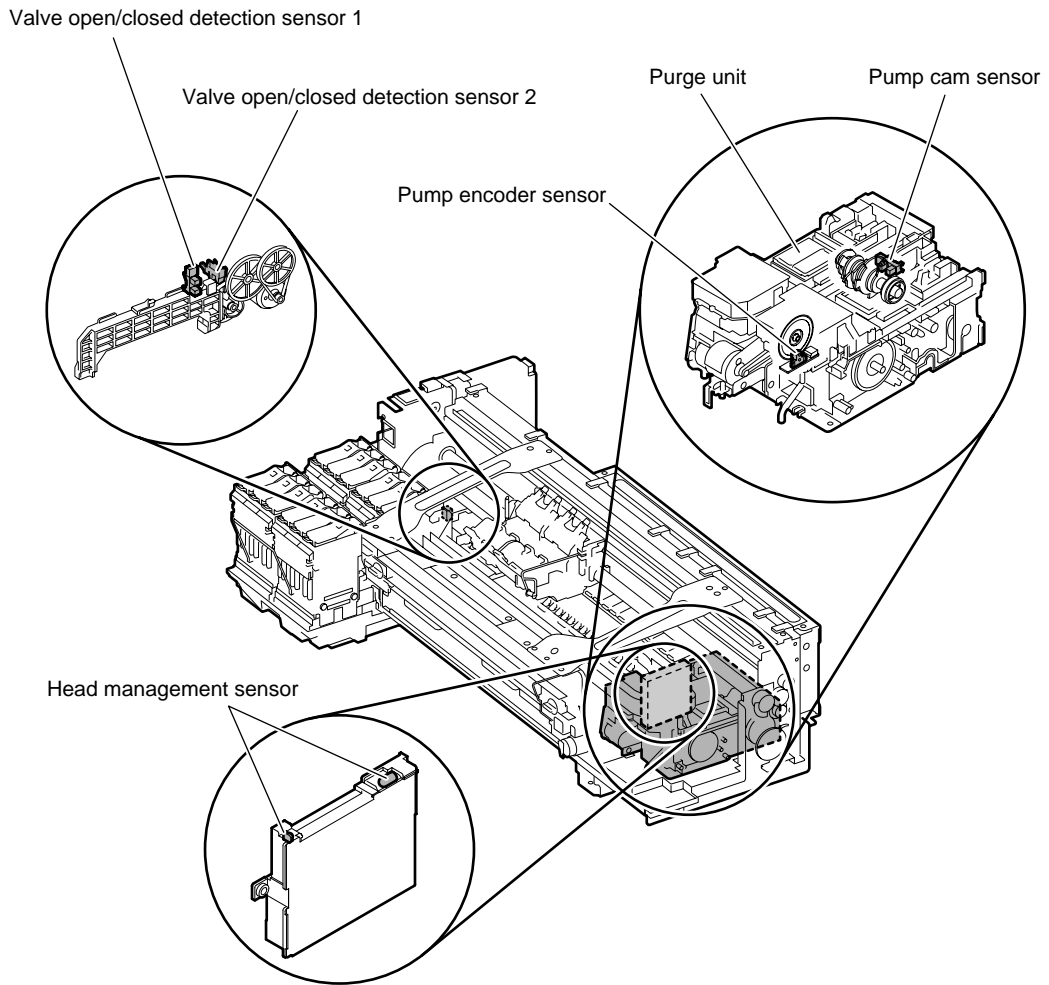
If there are at least 320 non-discharging nozzles out of 2560 nozzles as the result of non-discharging nozzle detection, printing is canceled after displaying a message to replace the head.

However, if service mode: [SERVICE MODE] > [SETTING] > [HEAD DOT INF] is [ON], the following message appears. If there are at least 30 nozzles unable to correct the non-discharging state and the number of non-discharging nozzles is less than 100 out of 2,560 nozzles as the result of non-discharging nozzle detection, printing can continue after displaying a message to check the printing. Also, if the number of non-discharging nozzles is at least 100 but less than 320 nozzles, printing can continue after displaying a message to check the head. And if there are at least 320 non-discharging nozzles, printing is canceled after displaying a message to replace the head.



2.5.5 Ink passage system

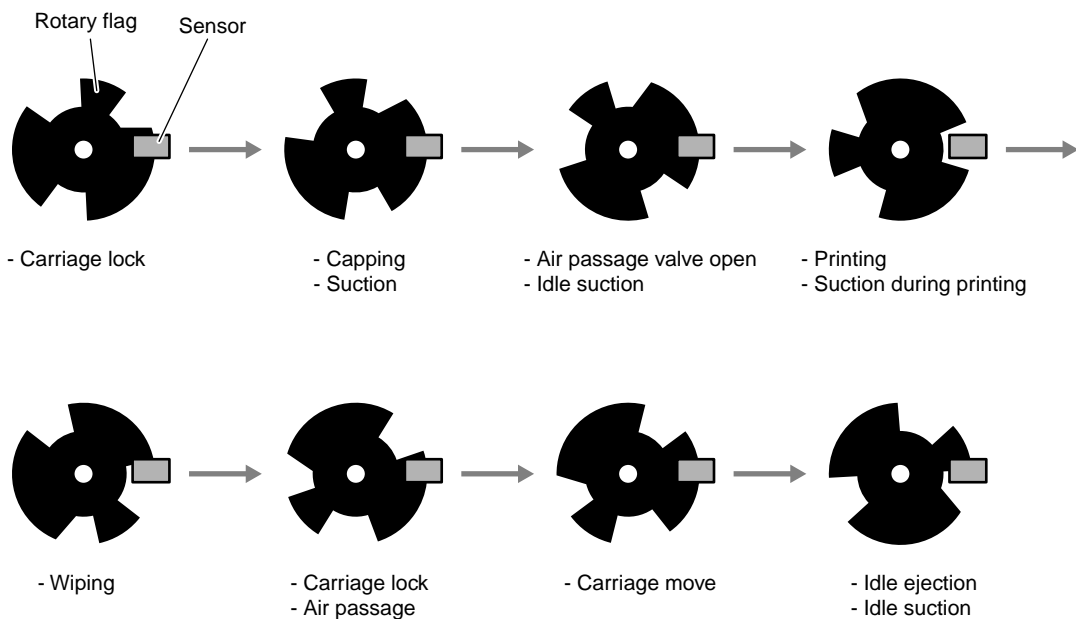
iPF6300S



F-2-89

Pump cam sensor

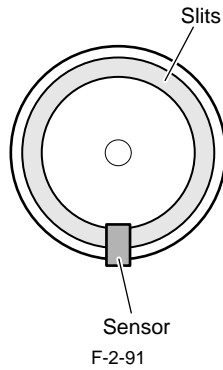
The photo-interrupter-type pump cam sensor detects that the sensor light is shielded or unshielded by the rotary cam. The sensor detects the purge unit capping and wiping states with the combination of the state detected by the pump cam and the state of pump motor rotation control performed by the pump encoder.



F-2-90

Pump encoder sensor

The pump encoder is a photo-interruptive type sensor. It reads the slits on the pump motor's encoder film to control the amount of pump motor rotation.

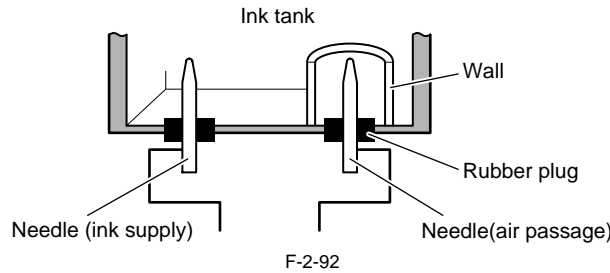


Valve open/closed detection sensor 1/Valve open/closed detection sensor 2

The photo-interrupter-type valve open/closed detection sensor 1/valve open closed detection sensor 2 detect the valve cam state. When the link that operates in conjunction with the valve cam shields light, this sensors detect that the ink supply valve has been opened.

Ink detection sensor

Presence of absence of ink in the ink tank is detected according to whether the two hollow needles are electrically connected. When the ink level in the ink tank lowers below the wall around the hollow needle at the air passage, this hollow needle is electrically disconnected from the hollow needle located on the ink supply side, thus detecting that the printer has run out of ink.



Head management sensor

The photo-transmission-type sensor detects that the printhead is discharging ink. The carriage moves to and stops at the detection positions for individual nozzle arrays. When the carriage is at a stop, nozzles discharge ink on after another. The sensor detects each nozzle due to the voltage change caused when ink discharged from the nozzle blocks the sensor light.

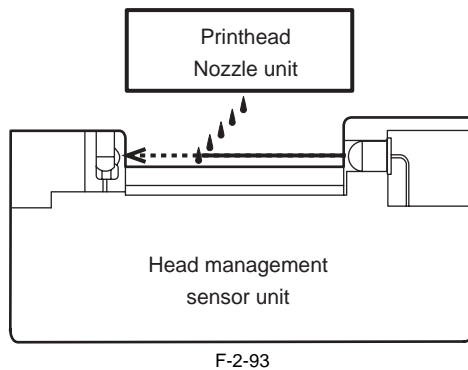
- Non-discharging nozzle detection is carried out at the following timings:
- After the execution of Cleaning 1, Cleaning 2, Cleaning 3, Cleaning 6 or Cleaning 10
 - After the number of copies that has been set by the user menu choice Nozzle Check Frequency have been printed

If more than a specified number of non-discharging nozzles have been located in one session of non-discharging nozzle detection, the normal cleaning sequence is launched before a second session of non-discharging nozzle detection is conducted. If more than a specified number of non-discharging nozzles are located in the second session of non-discharging nozzle detection, the normal (High) cleaning session is launched before a third session of non-discharging nozzle detection is conducted.

If there are at least 320 non-discharging nozzles out of 2560 nozzles as the result of non-discharging nozzle detection, printing is canceled after displaying a message to replace the head.

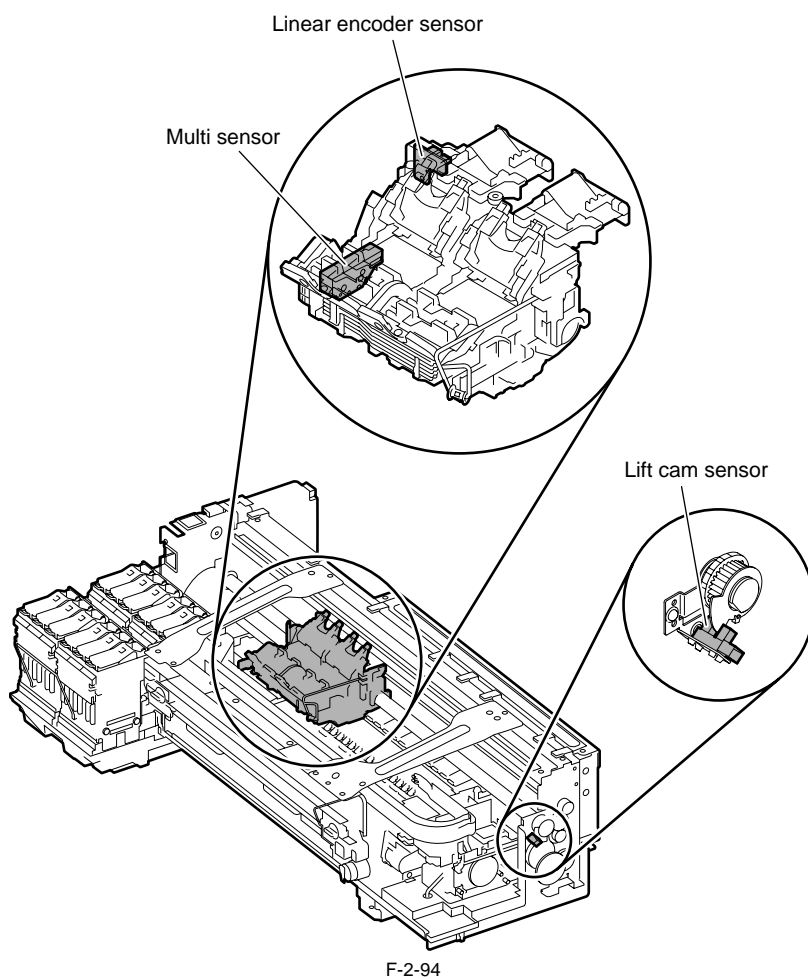
However, if service mode: [SERVICE MODE] > [SETTING] > [HEAD DOT INF] is [ON], the following message appears.

If there are at least 30 nozzles unable to correct the non-discharging state and the number of non-discharging nozzles is less than 100 out of 2,560 nozzles as the result of non-discharging nozzle detection, printing can continue after displaying a message to check the printing. Also, if the number of non-discharging nozzles is at least 100 but less than 320 nozzles, printing can continue after displaying a message to check the head. And if there are at least 320 non-discharging nozzles, printing is canceled after displaying a message to replace the head.



2.5.6 Carriage system

iPF6100 / iPF6200 / iPF6000S / iPF6300 / iPF6350 / iPF6300S



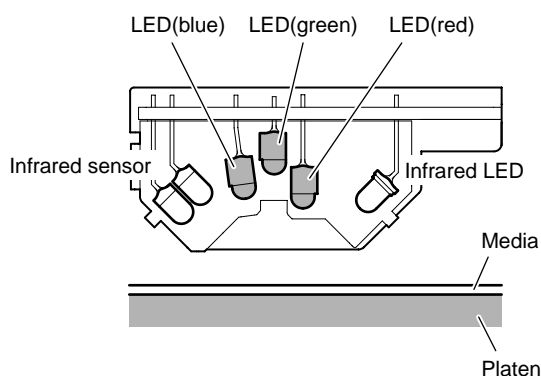
Multi sensor

The photo-reflection-type multi sensor is composed of four LEDs (red, blue, green and infrared) and two light-sensitive sensors. It detects the leading edge, skewing, and width of media and is used for adjustment of the registration, head height, and color calibration.

During head adjustment, the light reflected by the infrared LED and green LED is detected by two light-sensitive sensors to calculate the head height from the difference between the measurements.

When color calibration is executed, a color chart printed is read with three-color LED (red, blue, green), so color correction is implemented on the basis of the readings.

Ink mist adhering to the sensor could deliver incorrect measurement readings when color calibration is executed. If the ink dot count exceeds a tolerance, the service error (E194-4034) would occur. If it does, execute service mode: SERVICE MODE > ADJUST > GAP CALIB. after the multisensor has been replaced to clear the dot count.



- Service mode: After SERVICE MODE > ADJUST > GAP CALIB. has been carried out, pass paper to make sure that it is detected properly.
- In executing Calibration concurrently with the main menu choice Auto Head Adj. or Manual Head Adj., Auto Head Adj. or Manual Head Adj. first for the sake of higher color calibration accuracy.

Linear encoder sensor

When the carriage moves, the linear encoder sensor located at the rear of the carriage reads the slits on the linear encoder to detect the carriage position.

Lift cam sensor

This is a photo-interrupter-type sensor. The lift motor is driven by a predetermined number of pulses received after blocking of the sensor light by the flag, thus controlling the heights of the head and platen.

Environmental temperature sensor

The environmental temperature sensor installed on the carriage PCB detects the temperature around the carriage.

The resistance of the thermistor that changes with the temperature inside the printer is reported to the main controller via the carriage PCB.

The environmental temperature is used to calibrate the head sensor and to detect abnormal head temperatures.

Head temperature sensor

The diode-type head temperature sensors installed at the top and bottom of the printhead nozzle unit are used to detect the head temperature.

The diode voltage that changes with the nozzle unit temperature is reported to the main controller via the carriage PCB.

The detected head temperature is used to control the head operation and to detect abnormal head temperatures.

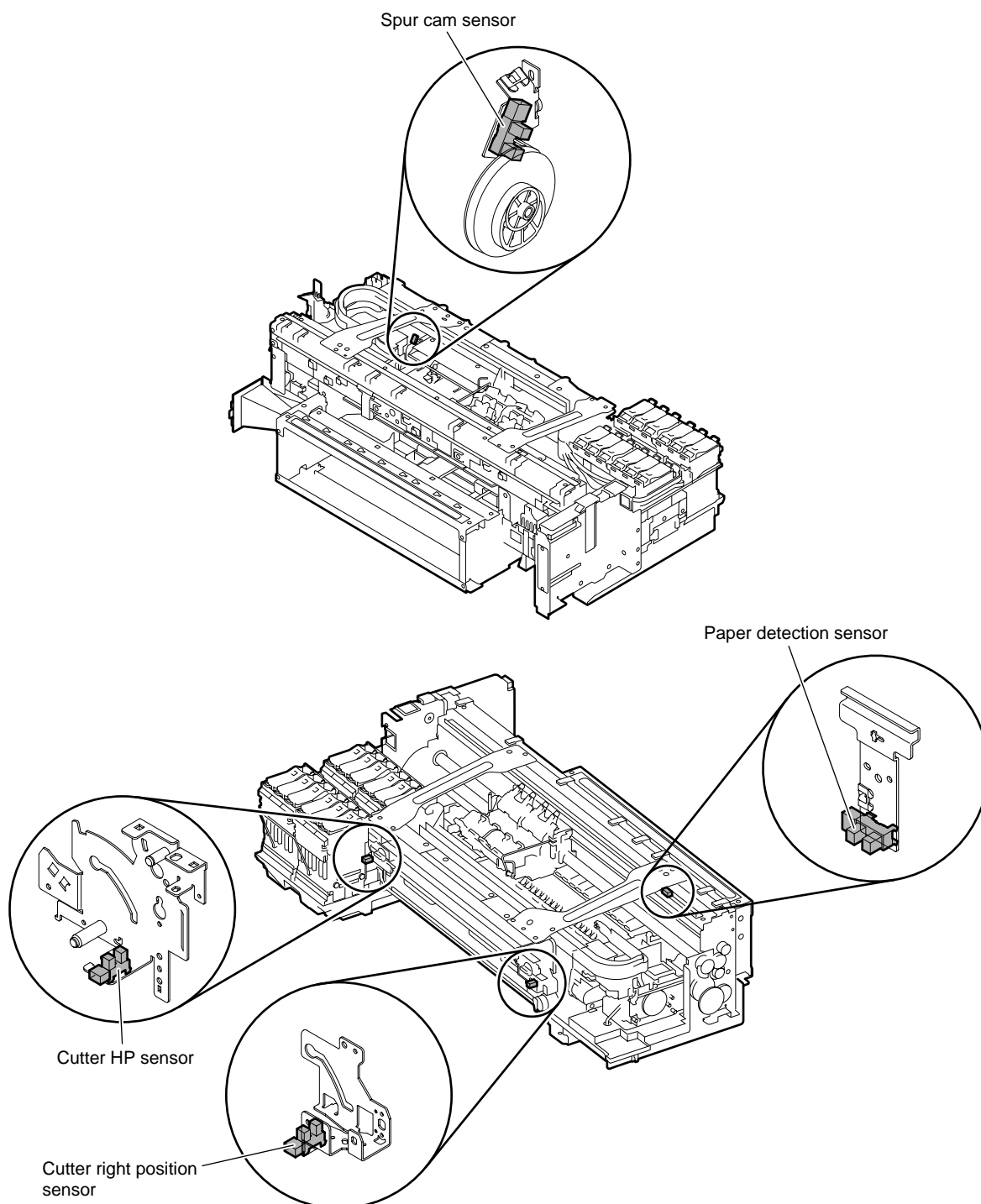
Printhead contact detection

The printhead contact status is detected by testing the electrical conductivity.

It is detected according to the voltage changes at the two terminals of the contact faces, power supply terminals, and GND terminal.

2.5.7 Paper path system

iPF6100 / iPF6200 / iPF6000S



F-2-96

Paper detection sensor

This is a photo-interrupter-type sensor. When paper is supplied from the paper tray, or roll feed unit, the sensor light is blocked by the sensor arm, thus detecting paper.

Spur cam sensor

This is a photo-interrupter-type sensor.

When the sensor light is shielded by the rotation of the spur motor, the printer detects that the spur unit is at the upper-limit position.

When the sensor light is unshielded by the rotation of the spur motor, the printer detects that the spur unit is at the bottom position.

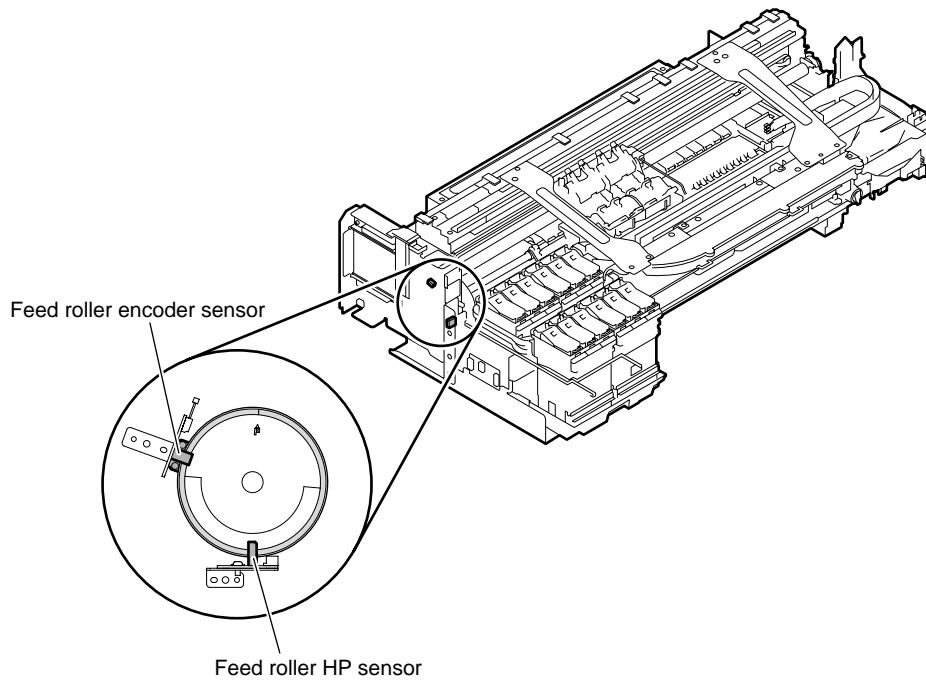
The spur height is controlled by driving the spur motor with a predetermined number of pulses.

Cutter HP sensor

This is a photo-interrupter-type sensor. This sensor detects that the cutter is at the home position (left end).

Cutter right position sensor

This is a photo-interrupter-type sensor. This sensor detects that the cutter is at the right end.



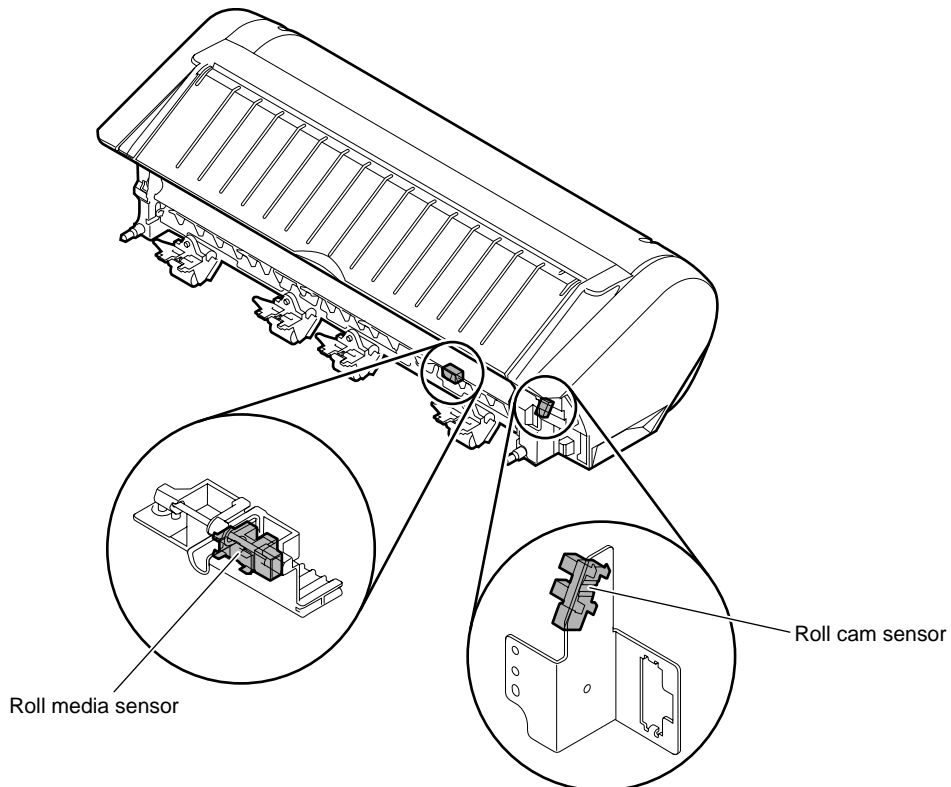
F-2-97

Feed roller HP sensor

The feed roller HP sensor detects the change from the white portion (unshielded sensor light) to black portion (shielded sensor light) of the encoder film on the feed roller, thus setting the home position for feed roller eccentricity compensation.

Feed roller encoder sensor

The feed roller encoder sensor detects the slits on the encoder film of the feed roller during feed motor rotation, thus detecting the amount of rotation of the feed roller (media feed amount).



F-2-98

Roll media sensor

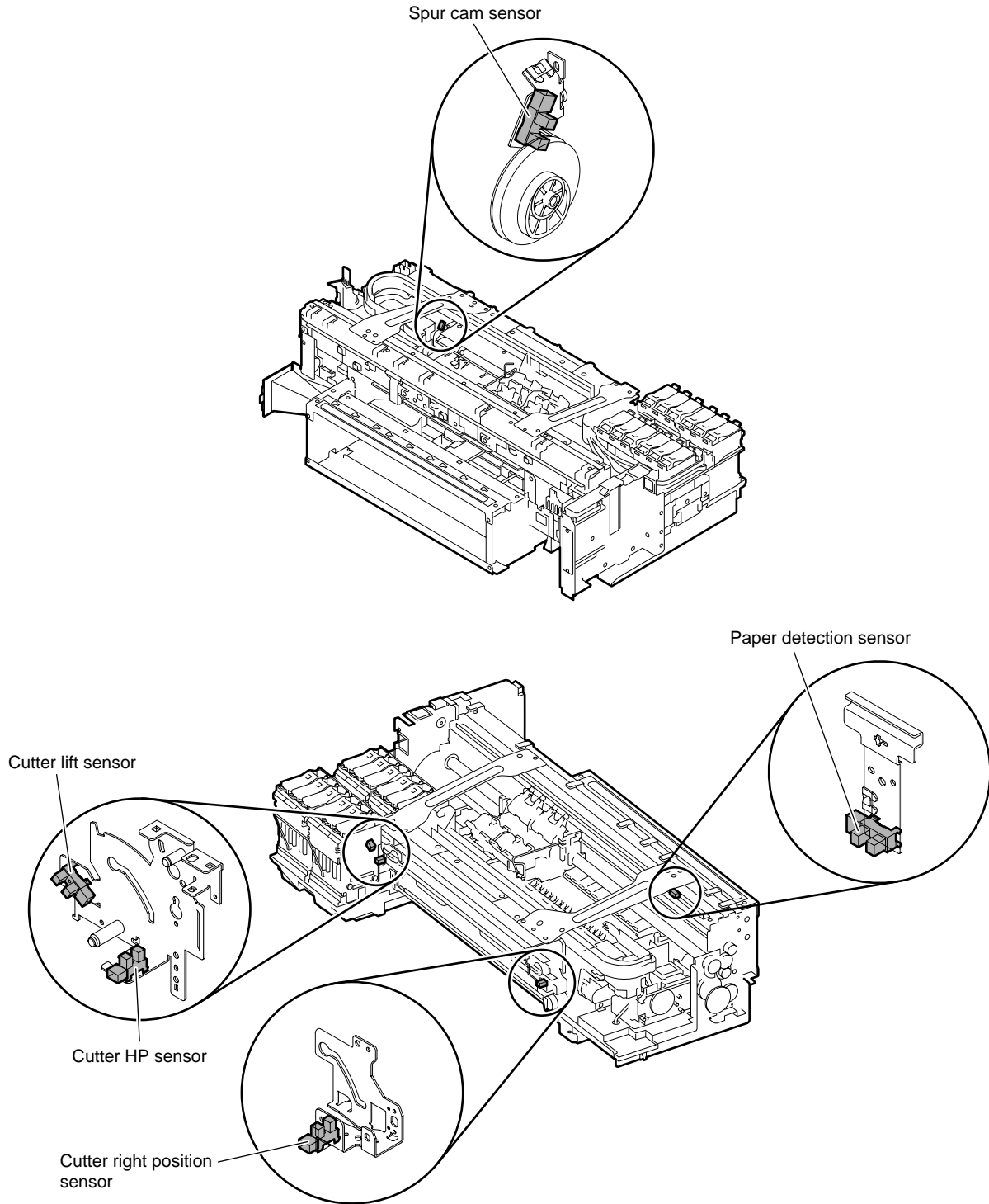
This is a photo-interrupter-type sensor. When media is loaded, the the sensor arm blocks the sensor light, thus detecting the media.

Roll cam sensor

This is a photo-interrupter-type sensor. When the roll cam blocks the sensor light, lowering of the transport roller (contact with the roller) is detected.

2.5.8 Paper path system

iPF6300 / iPF6350 / iPF6300S



F-2-99

Paper detection sensor

This is a photo-interrupter-type sensor. When paper is supplied from the paper tray, or roll feed unit, the sensor light is blocked by the sensor arm, thus detecting paper.

Spur cam sensor

This is a photo-interrupter-type sensor.

When the sensor light is shielded by the rotation of the spur motor, the printer detects that the spur unit is at the upper-limit position.

When the sensor light is unshielded by the rotation of the spur motor, the printer detects that the spur unit is at the bottom position.

The spur height is controlled by driving the spur motor with a predetermined number of pulses.

Cutter lift sensor

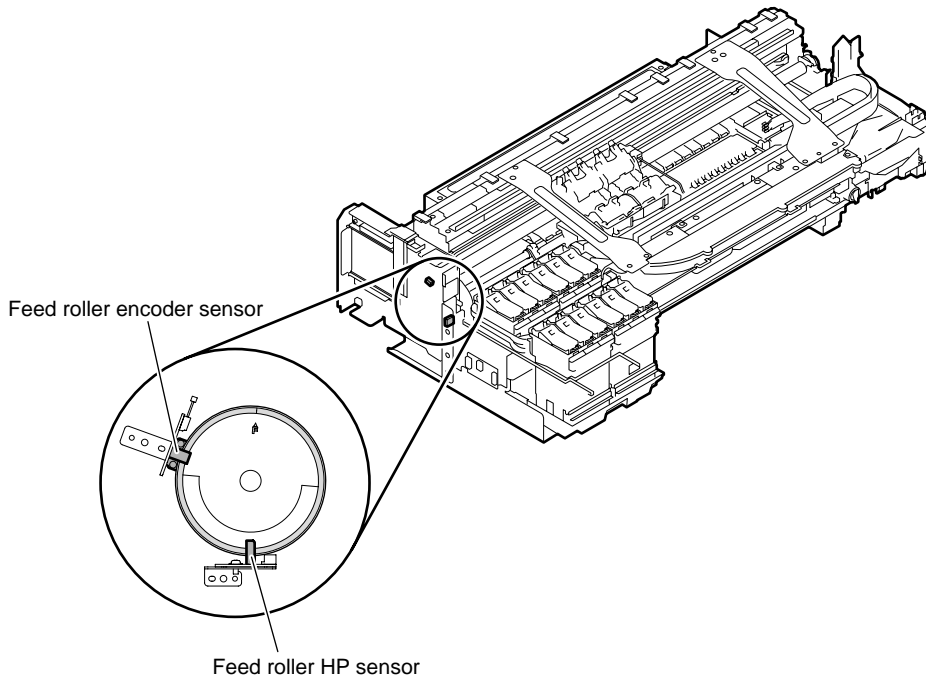
This is a photo-interrupter-type sensor. When the cutter unit ascends, the sensor unit blocks the sensor light, thus detecting that the cutter unit is at the upper-limit position (escaped).

Cutter HP sensor

This is a photo-interrupter-type sensor. This sensor detects that the cutter is at the home position (left end).

Cutter right position sensor

This is a photo-interrupter-type sensor. This sensor detects that the cutter is at the right end.



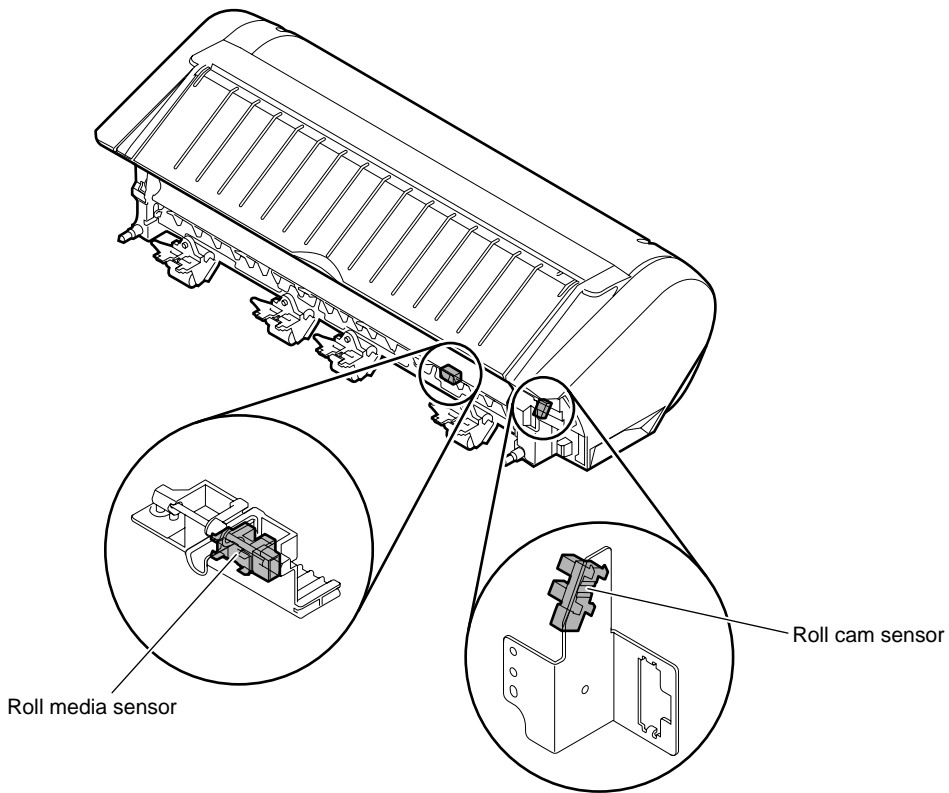
F-2-100

Feed roller HP sensor

The feed roller HP sensor detects the change from the white portion (unshielded sensor light) to black portion (shielded sensor light) of the encoder film on the feed roller, thus setting the home position for feed roller eccentricity compensation.

Feed roller encoder sensor

The feed roller encoder sensor detects the slits on the encoder film of the feed roller during feed motor rotation, thus detecting the amount of rotation of the feed roller (media feed amount).



F-2-101

Roll media sensor

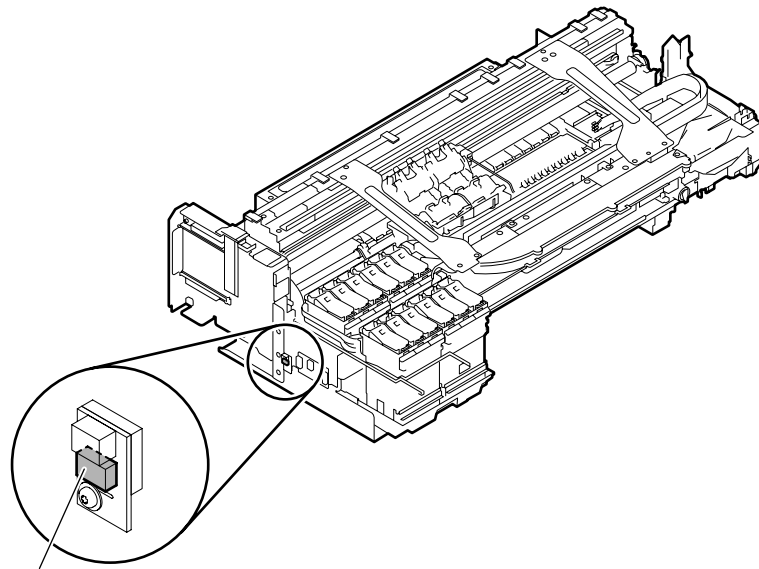
This is a photo-interrupter-type sensor. When media is loaded, the the sensor arm blocks the sensor light, thus detecting the media.

Roll cam sensor

This is a photo-interrupter-type sensor. When the roll cam blocks the sensor light, lowering of the transport roller (contact with the roller) is detected.

2.5.9 Others

iPF6100 / iPF6200 / iPF6000S / iPF6300 / iPF6350 / iPF6300S



Temperature/humidity sensor

F-2-102

Temperature/humidity sensor

This sensor detects the temperature and humidity around the printer so that the measured values are used for head height adjustment, idle discharge control, waste ink evaporation amount calculation, and suction fan control.

Chapter 3 INSTALLATION

Contents

3.1 Installation.....	3-1
3.1.1 Making Pre-Checks.....	3-1
3.1.1.1 Making Pre-Checks.....	3-1
3.1.2 Unpacking and Installation.....	3-1
3.1.2.1 Unpacking and Installation.....	3-1
3.1.2.2 Installing the Stand.....	3-10
3.1.3 Checking the Images/Operations.....	3-19
3.1.3.1 Checking the Image and Operation.....	3-19
3.2 Transporting the Printer.....	3-20
3.2.1 Transporting the Printer.....	3-20
3.2.1.1 Transporting the Printer.....	3-20
3.2.1.2 Transporting the Printer.....	3-22
3.2.2 Reinstalling the Printer.....	3-24
3.2.2.1 Reinstalling the Printer.....	3-24

3.1 Installation

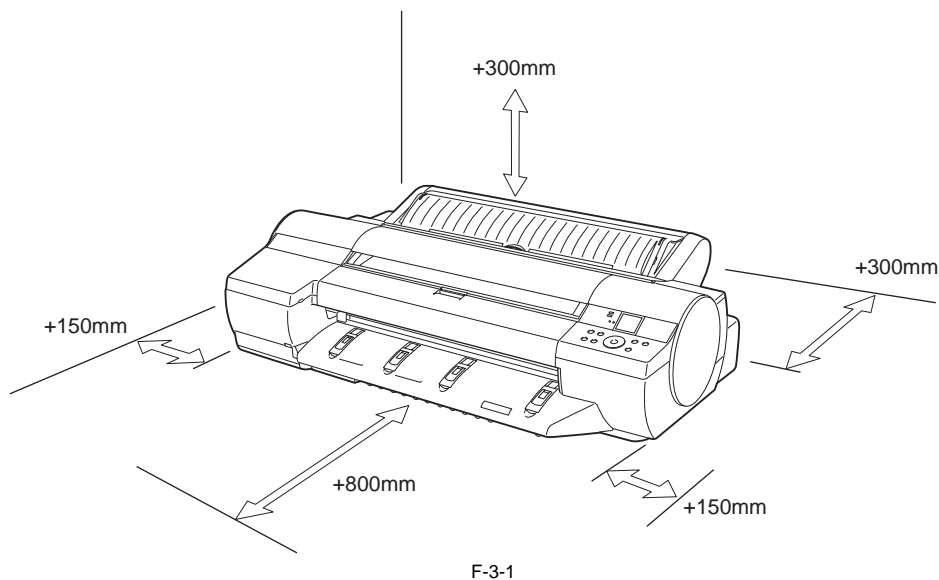
3.1.1 Making Pre-Checks

3.1.1.1 Making Pre-Checks

iPF6100 / iPF6200 / iPF6000S

Package dimensions and weight are as follows.

Main body (with a palette): 1320 (W) mm x 914 (D) mm x 645 (H) mm, Approx. 79 kg



Installation space

Main body only: 1477 (W) mm x 1770 (D) mm x 648 (H) mm

Main body with stand: 1477 (W) mm x 1961 (D) mm x 1293 (H) mm



When printing from the Front Paper Feed Slot, leave at least 1,300 mm (51.2 in) of unobstructed space in front of the printer and 700 mm (27.6 in) behind it.

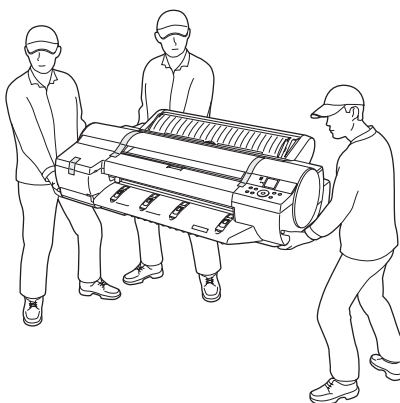
3.1.2 Unpacking and Installation

3.1.2.1 Unpacking and Installation

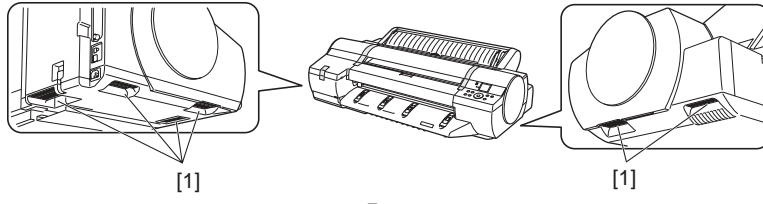
iPF6100 / iPF6200 / iPF6000S



The printer must be moved with it held by three or more persons on both sides. Be careful not to get your lower back and other regions hurt.



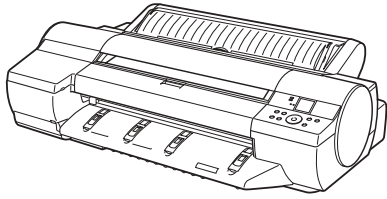
When moving the printer, grasp the carrying handles [1] on the left and right side of the bottom. Holding other portions can drop the printer and you may be injured.



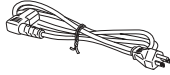
F-3-3

(1) Check to see that none of the accessories is missing.

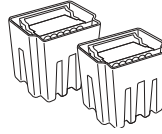
[1]



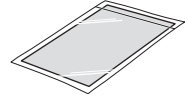
[2]



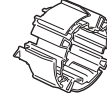
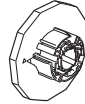
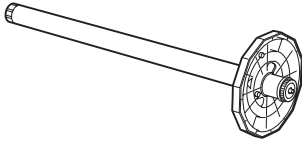
[3]



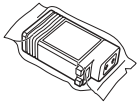
[4]



[5]



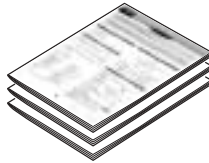
[6]



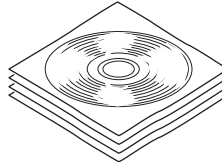
[7]



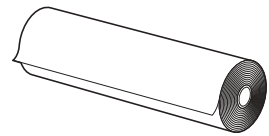
[8]



[9]



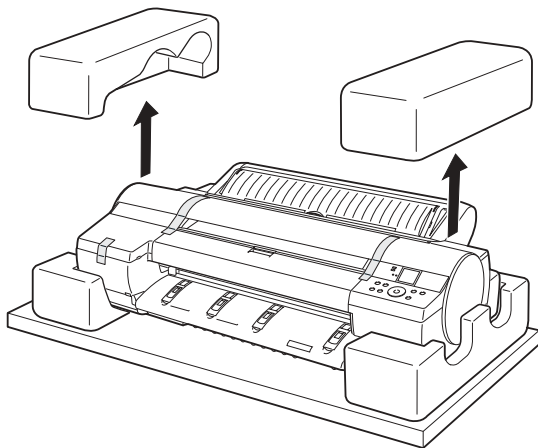
[10]



F-3-4

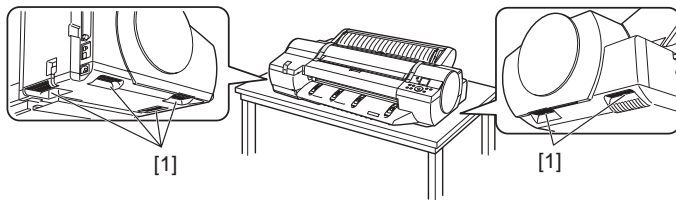
- [1] Printer
- [2] Power Cord
- [3] Printhead
- [4] Cleaning sheet
- [5] Roll Holder Set
- [6] Starter ink tanks
- [7] Cleaning brush
- [8] Reference Guides
- [9] CD-ROM
- [10] Sample paper

(2) Unpack the printer and remove the packaging material.



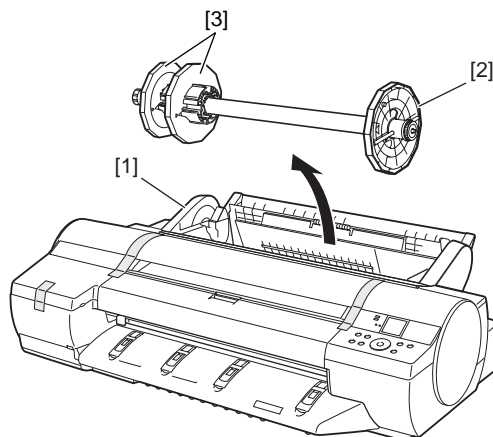
F-3-5

(3) Grasping the carrying handles [1] on the left and right side of the bottom, place the printer on a level place such as a table.



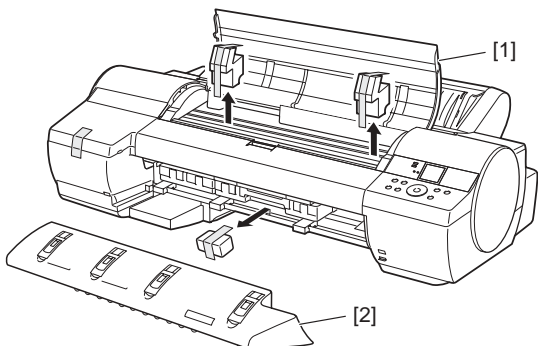
F-3-6

(4) The Roll Feed Unit [1] is preinstalled on the printer. Peel away the tape and remove the Roll Holder [2] and protective material from the Roll Feed Unit. Also remove the tape on the two Holder Stoppers attached to the Roll Holder, and then remove the Holder Stoppers [3] from the Roll Holder.



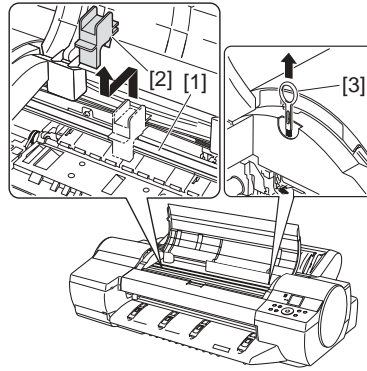
F-3-7

(5) Remove the tape and other packaging material used to secure the printer and accessories. Remove the tape and protective material on the Top Cover [1] and Ejection Guide [2]. After removing the tape and protective material on the Ejection Guide, reinstall it.



F-3-8

(6) Lift the Belt Stopper [2] of the Carriage Shaft [1] and pull it forward to remove it.

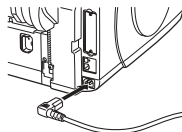


F-3-9

MEMO:

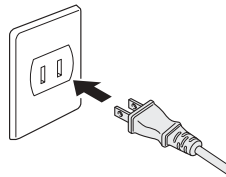
- You will need the Belt Stopper if you move the printer to another location. Do not discard the Belt Stopper you have removed.
- When you open the Top Cover, you will find a Cleaning Brush [3] on the right side. Use this brush to clean inside the Top Cover.

(7) Plug the power cord into the Power Socket on the back of the printer.



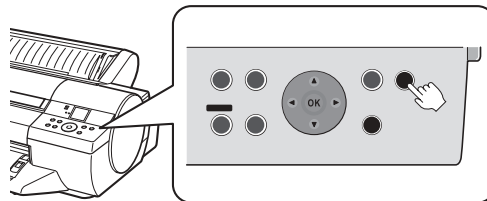
F-3-10

(8) Plug the power cord into the outlet.



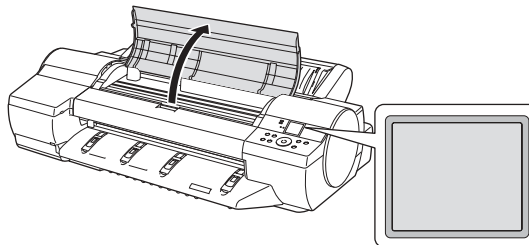
F-3-11

(9) Press the Power button to power on the printer.



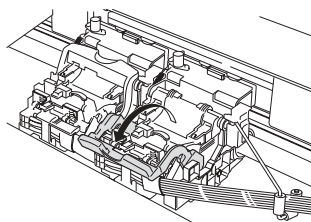
F-3-12

(10) When Open Top Cover is displayed on the Display Screen, open the Top Cover.



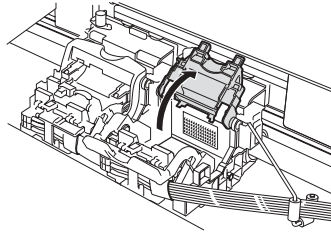
F-3-13

(11) Pull the Printhead Fixer Lever forward to open it completely.



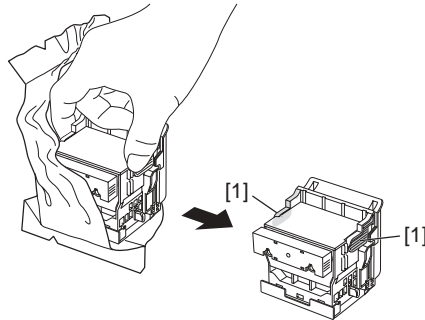
F-3-14

(12) Pull up the Printhead Fixer Cover to open it completely.



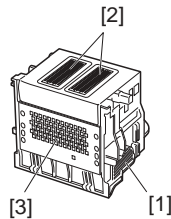
F-3-15

(13) Holding the Printhead by the grips [1], remove it from the case.



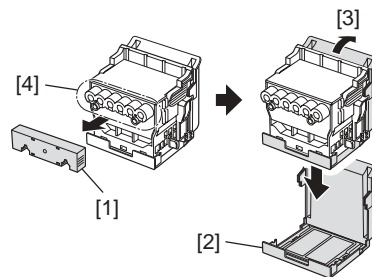
F-3-16

- ⚠**
- When handling the Printhead, always hold it by the grips [1].
 - Never touch the printhead nozzles [2] or the metal contacts [3]. The printhead can damage or a printing failure can occur. Do not reattach the removed protective caps.
 - Dispose of these parts following the local regulation.



F-3-17

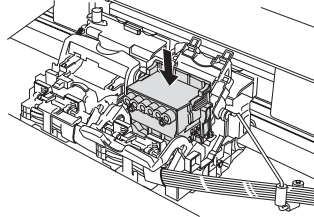
(14) Remove the orange Safety Cap 1 [1]. While squeezing the grips of Safety Cap 2 [2], pull the cap down to remove it.



F-3-18

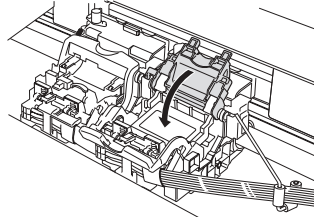
- ⚠**
- Never touch the ink supply section [4]. This may cause printing problems.
 - The Printhead is filled with ink. When removing Safety Cap 1 [1] and Safety Cap 2 [2], be careful not to spill it.
 - Do not reattach the protective material after removing it. Dispose of these materials according to local regulations.

(15) With the nozzles facing down and the metal contacts toward the back, insert the Printhead into the Carriage. Carefully push the Printhead firmly into the Carriage, ensuring that the nozzles and metal contacts do not touch the Carriage.



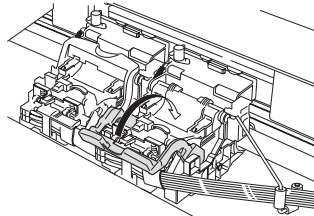
F-3-19

(16) Pull the Printhead Fixer Cover down toward the front to lock the Printhead in place.



F-3-20

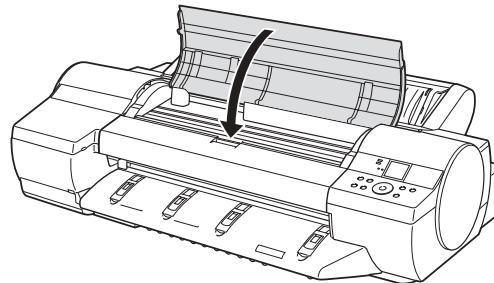
(17) Push the Printhead Fixer Lever toward the back of the printer until it clicks.



F-3-21

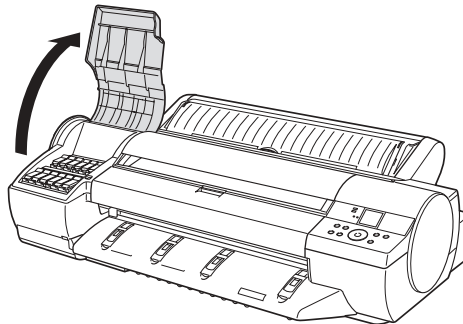
(18) Repeat steps 11-17 to install the second Printhead.

(19) Close the Top Cover.



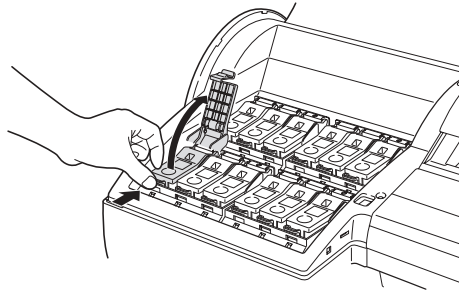
F-3-22

(20) Open the ink tank cover according to the message shown on the display.



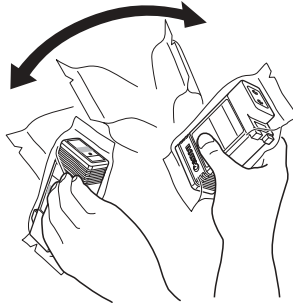
F-3-23

(21) Press the tip of the Ink Tank Lock Lever of the color for installation and open the Ink Tank Lock Lever.



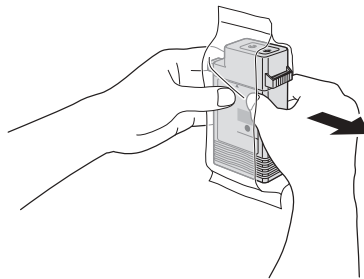
F-3-24

(22) Before removing the Ink Tank from the pouch, shake it gently seven or eight times. Agitate the ink in the Ink Tank by rotating your wrist to turn the Ink Tank upside-down and right side up repeatedly.



F-3-25

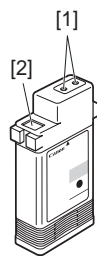
(23) Open the pouch and remove the Ink Tank.



F-3-26



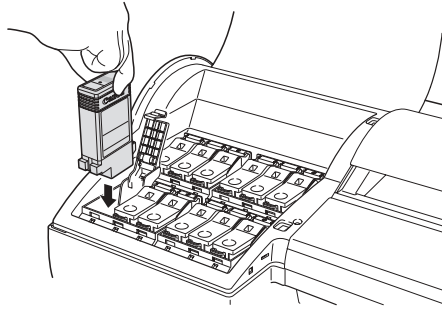
- Never touch the ink port [1] and contacts [2]. The peripheral parts may be stained, the ink tank may be broken, or a printing failure may occur.



F-3-27

- Be careful not to drop the ink tank once it is unpacked. The leaked ink may stain the peripheral area.
- Do not remove and shake the ink once it is installed. Ink may spatter.

(24) Insert the Ink Tank into the holder facing as shown, with the ink holes down.

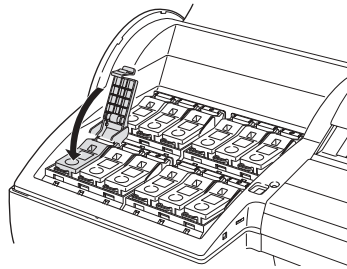


F-3-28

MEMO:

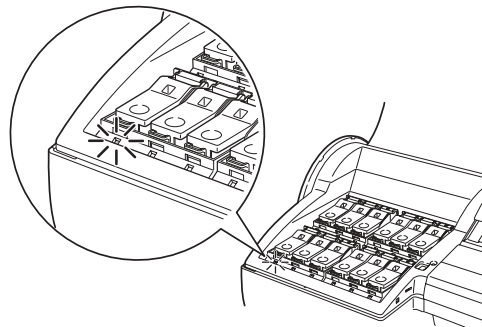
If you do not shake the ink tank, the ink may sediment, which may affect printing quality.

(25) Close the Ink Tank Lock Lever until it clicks.



F-3-29

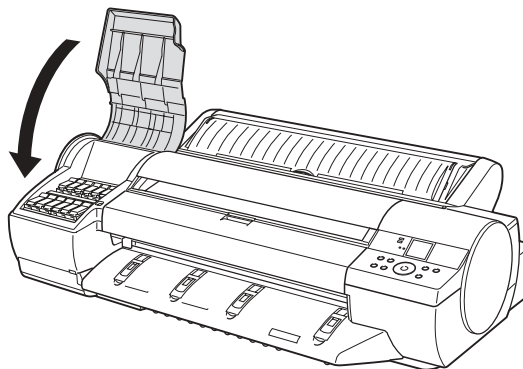
(26) Make sure the Ink Lamp is lit in red.



F-3-30

(27) Repeat steps 21-26 to install all Ink Tanks.

(28) Close the Ink Tank Cover.



F-3-31

(29) After all Printheads and Ink Tanks are installed, Keep Cover Closed is shown on the Display Screen. The system now automatically fills with ink. This process takes about 14 minutes.

MEMO:

Initial ink filling performed at printer installation consumes ink between the ink tanks and printhead. The ink level indicators may drop to 80% immediately, but this does not indicate a problem with the printer.

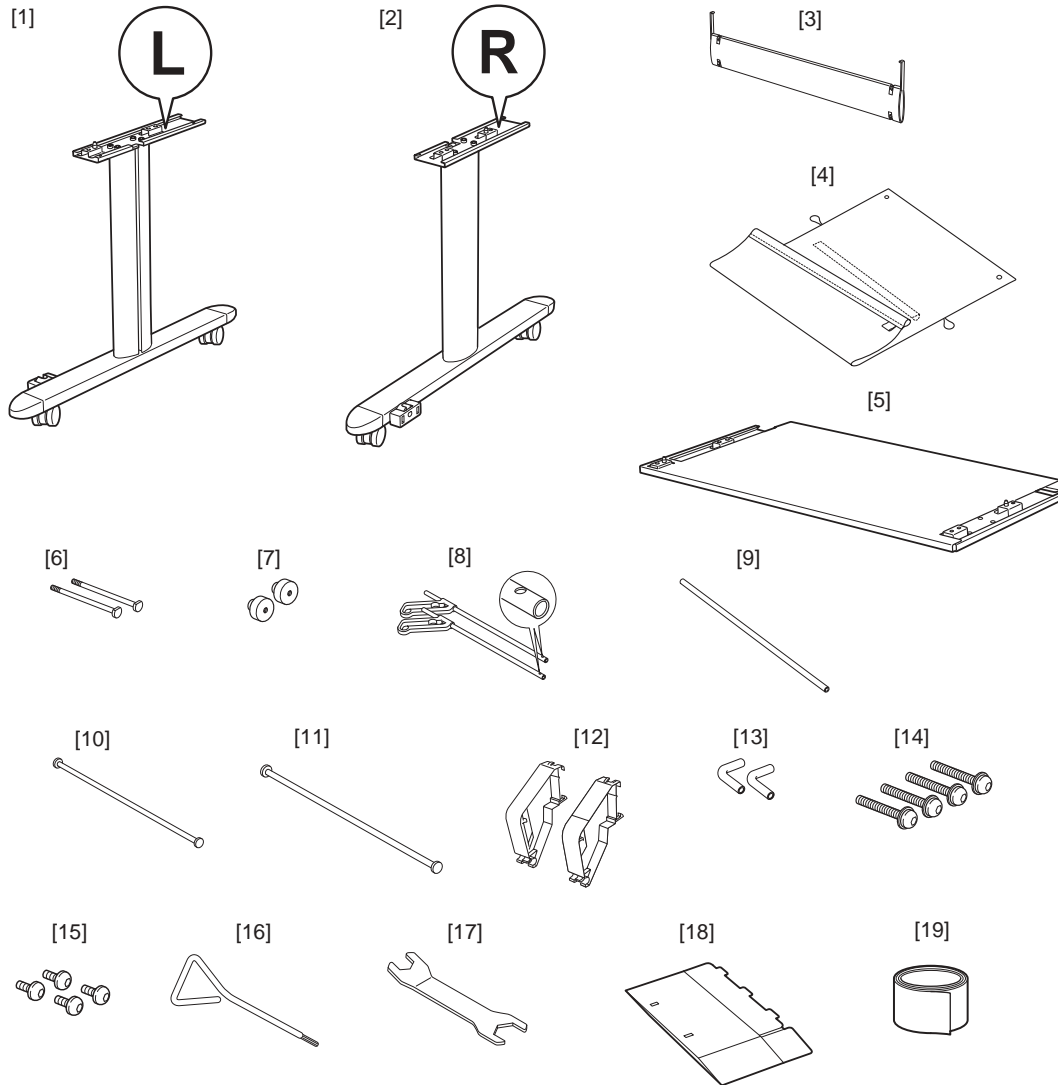
3.1.2.2 Installing the Stand

iPF6100 / iPF6200 / iPF6000S



Stand assembly requires two or more people.

a. Package Contents

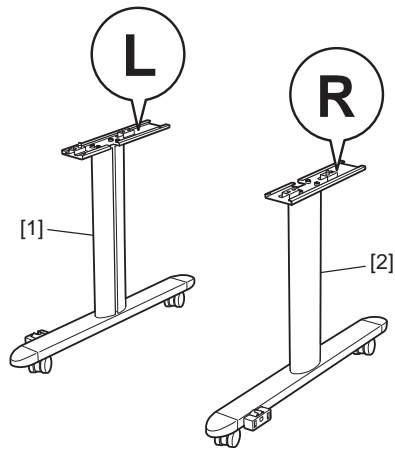


F-3-32

- [1] Stand L
- [2] Stand R
- [3] Stand Stay
- [4] Output Stacker
- [5] Stand Board
- [6] Basket Bolts (2pcs.)
- [7] Basket Decorative Nuts (2pcs.)
- [8] Basket Rod #1 (2pcs.)
- [9] Basket Rod #2
- [10] Basket Rod #3
- [11] Support Rod
- [12] Basket Arm (2pcs.)
- [13] Basket Rod Caps (2pcs.)
- [14] Main Unit Securing Bolts (long, 4pcs.)
- [15] Table Bolts (short, 4pcs.)
- [16] Allen Wrench
- [17] Wrench
- [18] Accessory Box
- [19] Velcro Tape

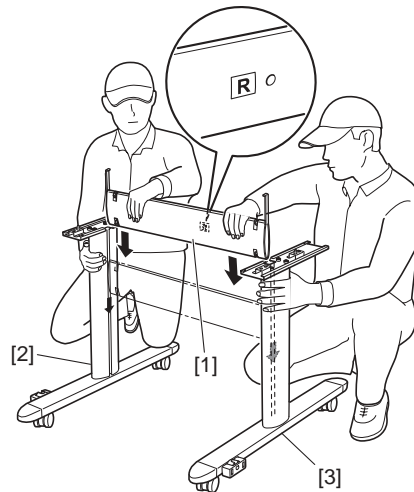
b. Assembling the Stand

(1) Position the Stand L [1] and Stand R [2] so that the Basket Fasteners are on the front, facing out.



F-3-33

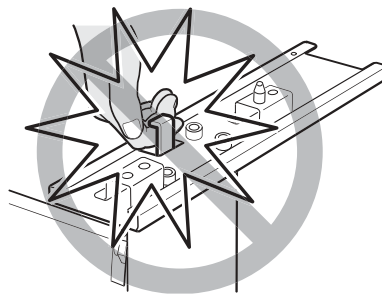
(2) Hold the Stand Stay [1] with the surface marked "R" facing back. Insert it fully into the grooves of the Stand L [2] and Stand R [3] until it stops.



F-3-34

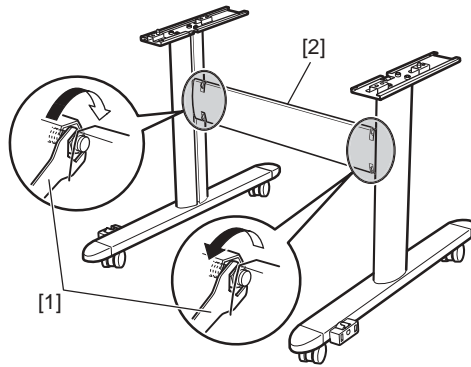


Be careful not to put your fingers between the Stand Stay fixtures and the groove of Stand.



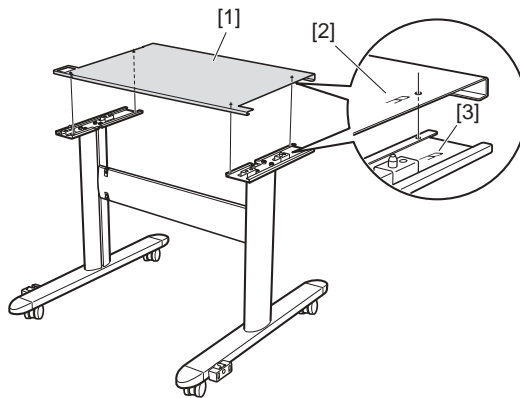
F-3-35

(3) To secure the Stand Stay [2], use the M10 side of the Wrench [1] to tighten hex nuts in four positions on the top and bottom of both sides.



F-3-36

(4) Put the Stand Board [1] on the Stand, aligning the right side of the Stand Board [2] with the right side of the Stand [3].

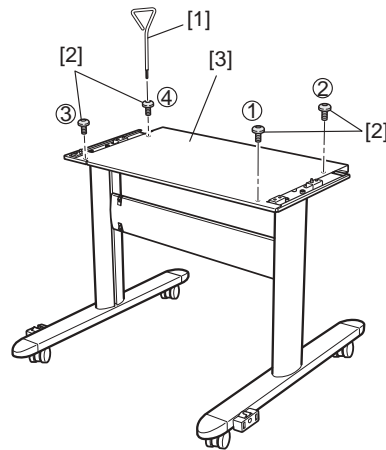


F-3-37



Be careful not to pinch your fingers between the Stand Board and Stand.

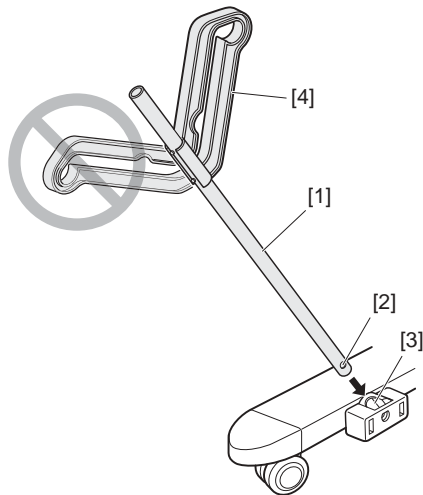
(5) To secure the Stand Board [3] to the Stand, use the Allen Wrench [1] to tighten the four short Table Bolts [2] in the order shown.



F-3-38

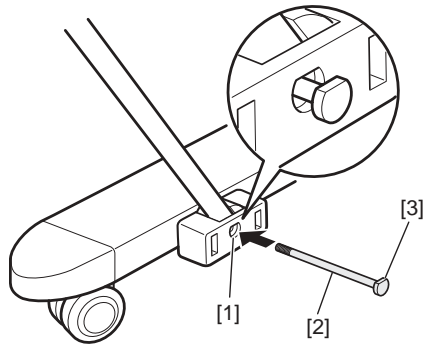
c. Assembling the Output Stacker

(1) Insert Basket Rod #1 [1] in the Basket Fastener so that the hole [2] of Basket Rod #1 and the hole [3] of the Basket Fastener on the right are aligned and the Support Rod Holder [4] faces up.



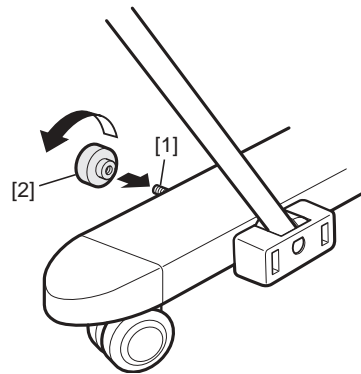
F-3-39

(2) Insert Basket Bolts [2] into the hole of Basket Fastener, fitting the head of Basket Bolts [3] in the hole of Basket Fastener [1].



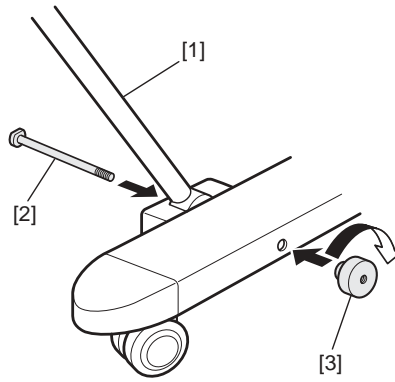
F-3-40

(3) Use Basket Decorative Nuts [2] to secure the Basket Bolts [1].



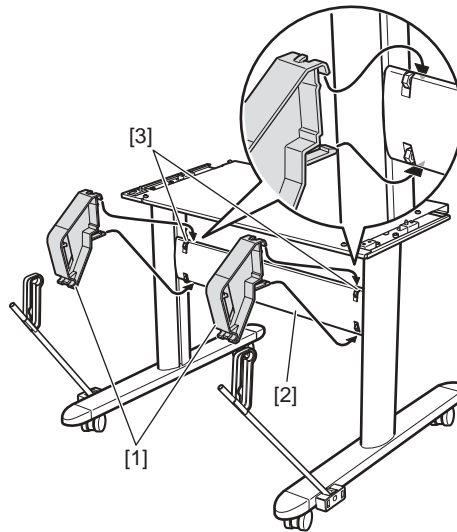
F-3-41

(4) As in steps 1 to 3, insert Basket Rod #1 [1] in the Basket Fastener on the left so that the Support Rod Holder faces up. Secure it with Basket Bolts [2] and Basket Decorative Nuts [3].



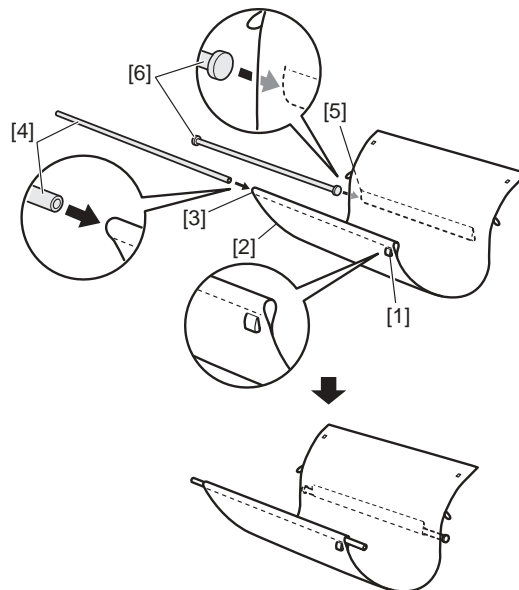
F-3-42

(5) Hang the hooks of the top of the Basket Arms [1] over the grooves [3] on the top of the Stand Stay [2], and hang the hooks of the bottom of the Basket Arms on the bottom of the Stand Stay.



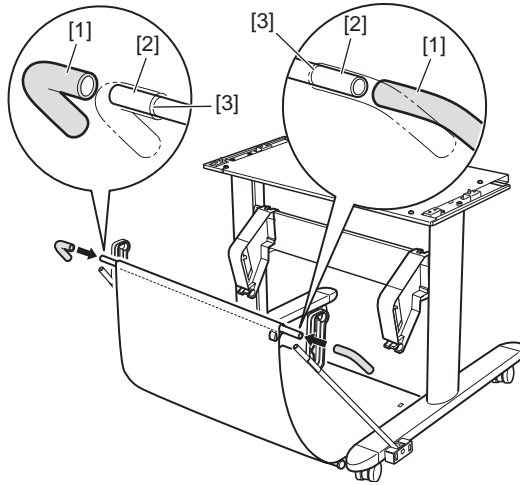
F-3-43

(6) Spread out the Output Stacker [2] so that the white tag [1] is face-down in the front right corner. Insert Basket Rod #2 [4] in the front hole [3] of the Output Stacker and Basket Rod #3 [6] in the hole [5] in the middle of the Output Stacker on the bottom surface.



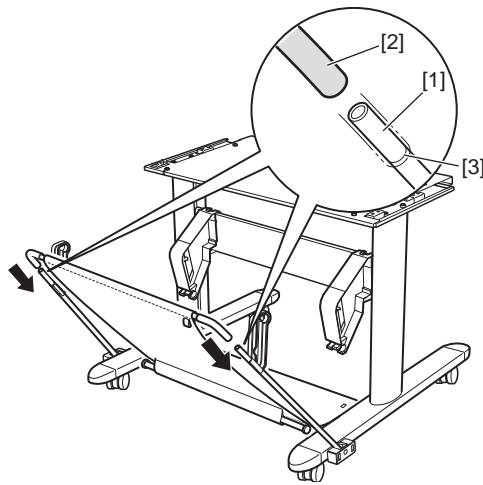
F-3-44

(7) Insert Basket Rod Caps [1] on both ends of Basket Rod #2 [2] until they cover the lines [3].



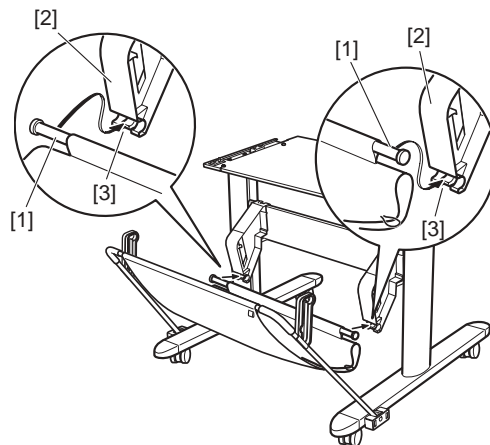
F-3-45

(8) Insert Basket Rod Caps [2] on both ends of Basket Rod #1 [1] until they cover the lines [3].



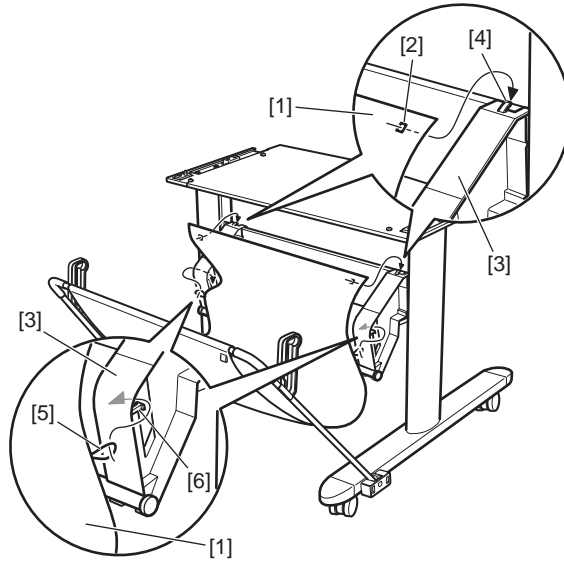
F-3-46

(9) Insert Basket Rod #3 [1] in the holder groove [3] on the bottom of the Basket Arm [2].



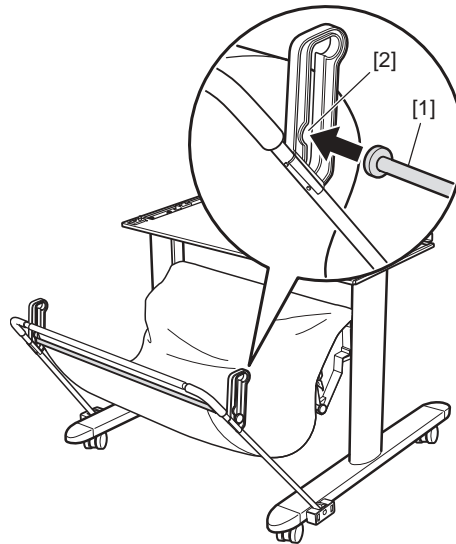
F-3-47

(10) Hang the holes [2] in the back of the Output Stacker [1] on both sides over the hooks [4] on the top of the Basket Arms [3], and then hang the loops [5] in the middle of the Output Stacker on both sides over the hooks [6] in the middle of the Basket Arms.



F-3-48

(11) Insert the Support Rod [1] in the insertion slot [2] of the Support Rod Holder. Passing it through the bottom of the Output Stacker, insert it in the Support Rod Holder on the opposite side. Normally, use the stacker in this position.

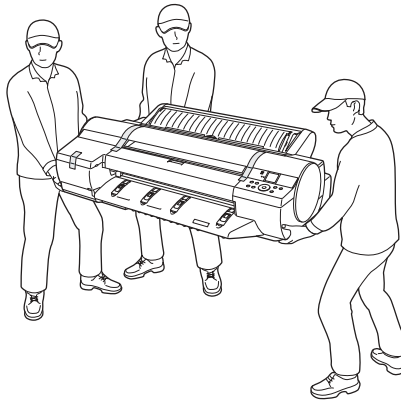


F-3-49

d. Installing the Printer

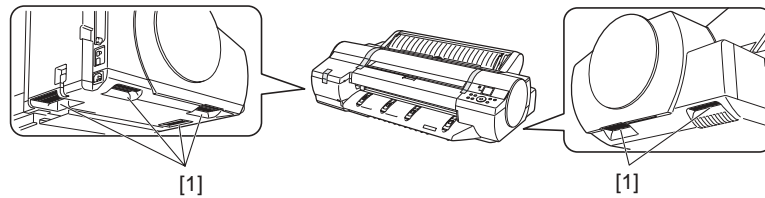


- Moving the printer requires at least three people. Be careful to avoid back strain and other injuries.



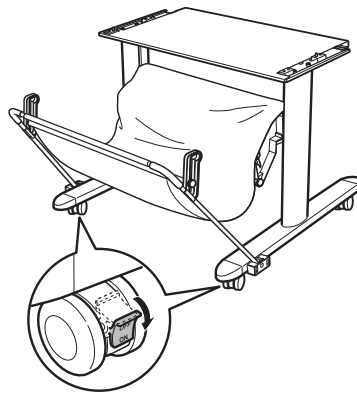
F-3-50

- When moving the printer, grasp the carrying handles [1] on the left and right side of the bottom. Holding other portions can drop the printer and you may be injured.



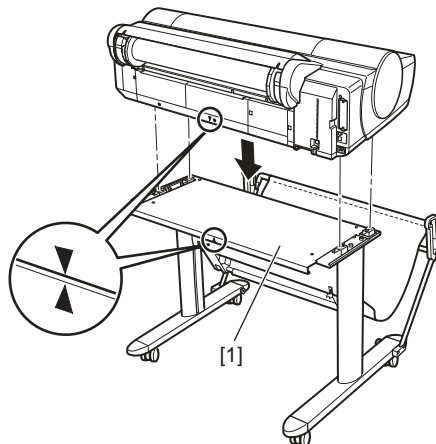
F-3-51

(1) Move the Stand into position and make sure the front casters are locked.



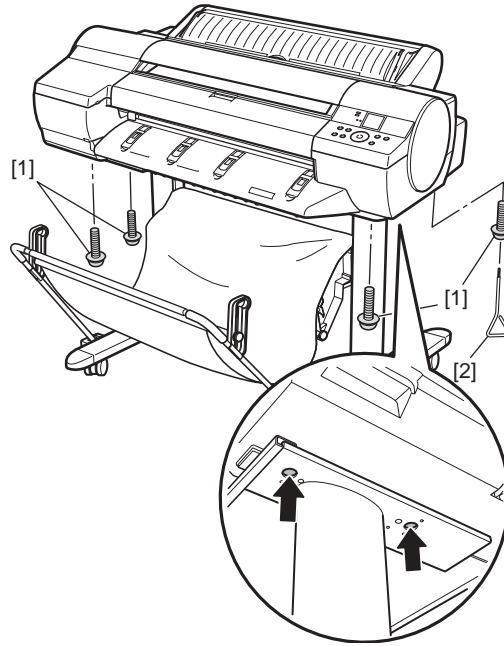
F-3-52

(2) With three people holding the printer carrying handles, align the ▼ symbol on the back of the printer with the ▲ symbol on the back of the Stand Board [1] as you set the printer down on the Stand.



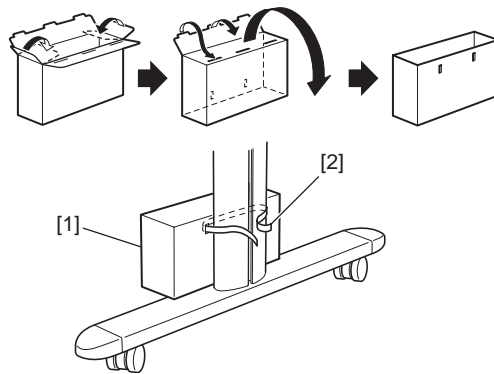
F-3-53

(3) To secure the printer to the stand, use the provided Allen Wrench [2] to tighten the two long Main Unit Securing Bolts [1] firmly on either side from under the printer.



F-3-54

(4) Assemble the Accessory Box [1] and use the Velcro Tape [2] to attach it to the Stand.



F-3-55

3.1.3 Checking the Images/Operations

3.1.3.1 Checking the Image and Operation

iPF6100 / iPF6200 / iPF6000S

Do the paper set and the driver installation, and do the test print.

3.2 Transporting the Printer

3.2.1 Transporting the Printer

3.2.1.1 Transporting the Printer

iPF6100 / iPF6200 / iPF6000S

This subsection describes how to transport the printer.

When moving the printer to another place on the same floor of the building, move it slowly so that it does not receive any shocks. Follow the steps shown in "1. Moving the printer on the same floor having no step".

When moving it elsewhere, follow the steps shown in "2. Moving the printer on the same floor having a step(s)".



When transporting the printer, the printhead must be capped and stay in the carriage.

In spite of this precaution, shocks incurred during transportation can damage the printhead.

Print the nozzle check pattern before making preparations for transporting the printer, print the nozzle check pattern again after installing the printer at the new location, and then compare the two printouts.

If any problem such as nozzle clogging cannot be resolved by printhead cleaning, replace the printhead with a new one.

1. Moving the printer on the same floor having no step

- (1) Turn off the Power button on the printer and check that the head is capped.
- (2) Open the top cover and mount the belt stopper.



When mounting the belt stopper, be careful not to move the carriage by applying too much pressure to the carriage. If the carriage moves with the head capped, the rubber part of the cap may touch the nozzles on the head and damage the printhead.

- (3) Close the upper cover.
- (4) Remove the roll holder from the roll holder slot.
- (5) Remove the interface cable, power cord from the printer.
- (6) Hold the carrying handles at the bottom, and then slowly move the printer.



- If the printer is subjected to strong vibrations when it is moved, it can cause ink leakage and damage to the printhead. Be sure to move the printer slowly and carefully.

- Do not incline the printer during transportation. The internal ink may leak and the surrounding area may be stained.

2. Moving the printer on the same floor having a step(s)

Follow the steps shown in "a. When the printer is operating properly". When the printer is not operating properly due to breakdown or a power-supply problem, follow the steps shown in "b. When the printer is not operating properly".

a. When the printer is operating properly



To prevent the waste ink from leaking, drain the ink, wait about 15 minute, and then remove the maintenance cartridge. Package the removed maintenance cartridge so that the waste ink does not leak.

- (1) Turn on the Power button on the printer.
- (2) Remove the media.
- (3) Remove the roll holder from the roll holder slot
- (4) Enter the Main menu, and then select "Maintenance" > "Move Printer". Remove all ink tanks following the displayed messages.
Put the removed ink tanks in the plastic bag with the ink port up and close the opening. It takes about 4 minutes to complete the "Move Printer" operation.



- "Move Printer" cannot be selected when "MT Cartridge Full Soon" is displayed. In this case, replace the maintenance cartridge first.

- If the consumable parts counter is checked and a message to replace consumable parts appear, check the consumable parts counter from service mode and replace the necessary consumable parts. After replacing the consumable parts and resetting the counter of service mode, perform the steps again. Refer to "SERVICE MODE" > "Details of Service Mode" > "PARTS CNT." and "MAINTENANCE" > "Consumable Parts" > "Consumable Parts".

- Never disconnect the power cord or open any cover while the "Move Printer" operation is in progress since this can cancel the operation. If the "Move Printer" operation is canceled while in progress, the printer will remain in the offline mode and will not return to the online mode. The "Ink Filling" operation is performed when the power is turned back on after canceling, so repeat the "Move Printer" operation from the beginning.

- The "Move Printer" operation will drain about 38 g of ink per color from the printer to the maintenance cartridge.

- (5) When the "Move Printer" operation is completed, turn off the Power button.
- (6) Open the top cover to check that the head is capped, and then secure the carriage with the belt stopper.
- (7) Close the top cover.
- (8) Disconnect the interface cable and power cord from the printer.

(9) Wait about 15 minutes after completion of the "Move Printer" operation, remove the maintenance cartridge, and then package it so that waste ink does not leak.



Check that waste ink is no longer leaking after removing the maintenance cartridge. If it is leaking, install the maintenance cartridge and wait until waste ink no longer leaks.

- (10) Attach the cushioning materials and tape.
- (11) If the printer is mounted on a stand, remove the printer from the stand.
- (12) Pack the printer in the packing box, and then put the roll media, ink tank, and optional devices in another packing box for moving.
Use the original packing materials for the printer and other optional devices. If they are not available, pack them with a sufficient amount of cushioning materials.

b. When the printer is not operating properly

- (1) Make sure that the printer is turned off.
 - (2) Disconnect the interface cable and power cord from the printer.
 - (3) Remove the roll holder from the roll holder slot.
 - (4) Drain ink from the printer. (Refer to "DISASSEMBLY/REASSEMBLY" > "Points to Note on Disassembly and Reassembly" > "Draining the Ink")
 - (5) Manually cap the printhead. (Refer to "3. Manual capping")
-



Manual capping is an emergency measure used when the printer does not operate properly, so it can damage the printhead.

- (6) Remove the maintenance cartridge, and then package it so that waste ink does not leak.
- (7) Attach all external covers.
- (8) Open the top cover, and then secure the carriage with the belt stopper.
- (9) Close the top cover.
- (10) Attach the cushioning materials and tape.
- (11) If the printer is mounted on a stand, remove the printer from the stand.
- (12) Pack the printer in the packing box, and then put the roll media, ink tank, and optional devices in another packing box for moving.
Use the original packing materials for the printer and other optional devices. If they are not available, pack them with a sufficient amount of cushioning materials.

3. Manual capping

When transporting the printer, cap the Printhead to protect the nozzles from drying out and to keep them clean. Follow the procedures described below:

- 1) While referring to "DISASSEMBLY/REASSEMBLY" > "Points to Note on Disassembly and Reassembly" > "Opening the caps and releasing the carriage lock pins", open all of the caps.
 - 2) Move the carriage to the home position.
 - 3) While referring to "DISASSEMBLY/REASSEMBLY" > "Points to Note on Disassembly and Reassembly" > "Opening the caps and releasing the carriage lock pins", perform the capping.
-



Manual capping is an emergency measure when the printer does not operate. Manual capping can damage the printhead.

3.2.1.2 Transporting the Printer

iPF6300 / iPF6350 / iPF6300S

This subsection describes how to transport the printer.

When moving the printer to another place on the same floor of the building, move it slowly so that it does not receive any shocks. Follow the steps shown in "1. Moving the printer on the same floor having no step".

When moving it elsewhere, follow the steps shown in "2. Moving the printer on the same floor having a step(s)".



When transporting the printer, the printhead must be capped and stay in the carriage.

In spite of this precaution, shocks incurred during transportation can damage the printhead.

Print the nozzle check pattern before making preparations for transporting the printer, print the nozzle check pattern again after installing the printer at the new location, and then compare the two printouts.

If any problem such as nozzle clogging cannot be resolved by printhead cleaning, replace the printhead with a new one.

1. Moving the printer on the same floor having no step

- (1) Turn off the Power button on the printer and check that the head is capped.
- (2) Open the top cover and mount the belt stopper.



When mounting the belt stopper, be careful not to move the carriage by applying too much pressure to the carriage. If the carriage moves with the head capped, the rubber part of the cap may touch the nozzles on the head and damage the printhead.

- (3) Close the upper cover.
- (4) Remove the roll holder from the roll holder slot.
- (5) Remove the interface cable, power cord from the printer.
- (6) Hold the carrying handles at the bottom, and then slowly move the printer.



- If the printer is subjected to strong vibrations when it is moved, it can cause ink leakage and damage to the printhead. Be sure to move the printer slowly and carefully.

- Do not incline the printer during transportation. The internal ink may leak and the surrounding area may be stained.

2. Moving the printer on the same floor having a step(s)

Follow the steps shown in "a. When the printer is operating properly". When the printer is not operating properly due to breakdown or a power-supply problem, follow the steps shown in "b. When the printer is not operating properly".

a. When the printer is operating properly



To prevent the waste ink from leaking, drain the ink, wait about 15 minute, and then remove the maintenance cartridge. Package the removed maintenance cartridge so that the waste ink does not leak.

- (1) Turn on the Power button on the printer.
- (2) Remove the media.
- (3) Remove the roll holder from the roll holder slot
- (4) Enter the Main menu, and then select "Set/Adj. Menu" > "Prep. MovePrinter". Remove all ink tanks following the displayed messages.
Put the removed ink tanks in the plastic bag with the ink port up and close the opening. It takes about 4 minutes to complete the "Prep. MovePrinter" operation.



- "Prep. MovePrinter" cannot be selected when "MT Cartridge Full Soon" is displayed. In this case, replace the maintenance cartridge first.

- If the consumable parts counter is checked and a message to replace consumable parts appear, check the consumable parts counter from service mode and replace the necessary consumable parts. After replacing the consumable parts and resetting the counter of service mode, perform the steps again. Refer to "SERVICE MODE" > "Details of Service Mode" > "PARTS CNT." and "MAINTENANCE" > "Consumable Parts" > "Consumable Parts".

- Never disconnect the power cord or open any cover while the "Prep. MovePrinter" operation is in progress since this can cancel the operation. If the "Prep. MovePrinter" operation is canceled while in progress, the printer will remain in the offline mode and will not return to the online mode. The "Ink Filling" operation is performed when the power is turned back on after canceling, so repeat the "Prep. MovePrinter" operation from the beginning.

- The "Prep. MovePrinter" operation will drain about 38 g of ink per color from the printer to the maintenance cartridge.

- (5) When the "Prep. MovePrinter" operation is completed, turn off the Power button.
- (6) Open the top cover to check that the head is capped, and then secure the carriage with the belt stopper.
- (7) Close the top cover.
- (8) Disconnect the interface cable and power cord from the printer.
- (9) Wait about 15 minutes after completion of the "Prep. MovePrinter" operation, remove the maintenance cartridge, and then package it so that waste ink does not leak.



Check that waste ink is no longer leaking after removing the maintenance cartridge. If it is leaking, install the maintenance cartridge and wait until waste ink no longer leaks.

- (10) Attach the cushioning materials and tape.
- (11) If the printer is mounted on a stand, remove the printer from the stand.
- (12) Pack the printer in the packing box, and then put the roll media, ink tank, and optional devices in another packing box for moving.
Use the original packing materials for the printer and other optional devices. If they are not available, pack them with a sufficient amount of cushioning materials.

b. When the printer is not operating properly

- (1) Make sure that the printer is turned off.
 - (2) Disconnect the interface cable and power cord from the printer.
 - (3) Remove the roll holder from the roll holder slot.
 - (4) Drain ink from the printer. (Refer to "DISASSEMBLY/REASSEMBLY" > "Points to Note on Disassembly and Reassembly" > "Draining the Ink")
 - (5) Manually cap the printhead. (Refer to "3. Manual capping")
-



Manual capping is an emergency measure used when the printer does not operate properly, so it can damage the printhead.

- (6) Remove the maintenance cartridge, and then package it so that waste ink does not leak.
- (7) Attach all external covers.
- (8) Open the top cover, and then secure the carriage with the belt stopper.
- (9) Close the top cover.
- (10) Attach the cushioning materials and tape.
- (11) If the printer is mounted on a stand, remove the printer from the stand.
- (12) Pack the printer in the packing box, and then put the roll media, ink tank, and optional devices in another packing box for moving.
Use the original packing materials for the printer and other optional devices. If they are not available, pack them with a sufficient amount of cushioning materials.

3. Manual capping

When transporting the printer, cap the Printhead to protect the nozzles from drying out and to keep them clean. Follow the procedures described below:

- 1) While referring to "DISASSEMBLY/REASSEMBLY" > "Points to Note on Disassembly and Reassembly" > "Opening the Cap/Releasing the Carriage Lock Pin manually", open all of the caps.
 - 2) Move the carriage to the home position.
 - 3) While referring to "DISASSEMBLY/REASSEMBLY" > "Points to Note on Disassembly and Reassembly" > "Opening the Cap/Releasing the Carriage Lock Pin manually", perform the capping.
-



Manual capping is an emergency measure when the printer does not operate. Manual capping can damage the printhead.

3.2.2 Reinstalling the Printer

3.2.2.1 Reinstalling the Printer

iPF6100 / iPF6200 / iPF6000S / iPF6300 / iPF6350 / iPF6300S

1. When installing the printer after moving it on the same floor having no step

If you have moved the printer to the installation site on the same floor having no step without draining ink, check the operation test pattern.

2. When installing the printer after moving it on the same floor having a step(s)

If you have moved the printer to the installation site on the same floor having a step(s) with ink drained, install it again in the same manner as that for initial installation after reception of the delivered printer.

- 1) Unpack the printer.
- 2) Remove the cushioning materials and tape from the printer.
- 3) Install the maintenance cartridge.
- 4) Remove the belt stopper.
- 5) Connect the power cord.
- 6) Turn on the Power button and install ink tanks according to the displayed messages.
Ink filling will start.
Load paper and check for normal operation.

Chapter 4 DISASSEMBLY/REASSEMBLY

Contents

4.1 Service Parts.....	4-1
4.1.1 Service Parts.....	4-1
4.2 Disassembly/Reassembly.....	4-2
4.2.1 Disassembly/Reassembly.....	4-2
4.3 Points to Note on Disassembly and Reassembly.....	4-2
4.3.1 Note: Items that should never be disassembled.....	4-2
4.3.2 Moving the carriage manually.....	4-2
4.3.3 Units requiring draining of ink.....	4-2
4.3.4 External Covers.....	4-4
4.3.5 Driving Unit.....	4-17
4.3.6 Cutter.....	4-18
4.3.7 Cutter.....	4-21
4.3.8 Carriage Unit.....	4-24
4.3.9 Carriage Unit.....	4-32
4.3.10 Feeder Unit.....	4-40
4.3.11 Feeder Unit.....	4-43
4.3.12 Roll Feed Unit.....	4-46
4.3.13 Purge Unit.....	4-49
4.3.14 Waste Ink Collection Unit.....	4-52
4.3.15 Ink Tank Unit.....	4-56
4.3.16 Ink Tank Unit.....	4-59
4.3.17 Head Management Sensor.....	4-62
4.3.18 Multi Sensor.....	4-62
4.3.19 Multi Sensor.....	4-63
4.3.20 PCBs.....	4-64
4.3.21 PCBs.....	4-67
4.3.22 PCBs.....	4-72
4.3.23 Opening the Cap/Moving the Wiper Unit.....	4-77
4.3.24 Opening the Cap/Moving the Wiper Unit.....	4-79
4.3.25 Opening/Closing the Ink Supply Valve.....	4-81
4.3.26 Draining the Ink.....	4-82
4.4 Applying the Grease.....	4-83
4.4.1 Applying the Grease.....	4-83
4.5 Adjustment and Setup Items.....	4-87
4.5.1 Adjustment Item List.....	4-87
4.5.2 Adjustment Item List.....	4-87
4.5.3 Procedure after Replacing the Carriage Unit or Multi Sensor.....	4-87
4.5.4 Procedure after Replacing the Carriage Unit or Multi Sensor.....	4-90
4.5.5 Procedure after Replacing the Head Management Sensor.....	4-93

4.1 Service Parts

4.1.1 Service Parts

iPF6100 / iPF6200 / iPF6000S / iPF6300 / iPF6350 / iPF6300S

The service parts indicated below require careful handling.

1. Keep all packages with the warning not to turn over.

Pay careful attention to all individually packaged service part (carriage unit, purge unit, ink tank unit, and other parts) boxes marked "This side up" and handle appropriately.



F-4-1

4.2 Disassembly/Reassembly

4.2.1 Disassembly/Reassembly

iPF6100 / iPF6200 / iPF6000S / iPF6300 / iPF6350 / iPF6300S

For the procedure for disassembly/reassembly of the components excluding the major components, refer to the parts catalog. Illustrations in the parts catalog are assigned illustration numbers according to the order in which parts are disassembled.

4.3 Points to Note on Disassembly and Reassembly

4.3.1 Note: Items that should never be disassembled

iPF6100 / iPF6200 / iPF6000S / iPF6300 / iPF6350 / iPF6300S



Assemblies that should never be removed after initial factory adjustments, are indicated by the presence of red screws. Under no circumstance should these red screws be loosened or removed. Removing these screws will render the printer out of alignment forever.



F-4-2

4.3.2 Moving the carriage manually

iPF6100 / iPF6200 / iPF6000S / iPF6300 / iPF6350 / iPF6300S



Move the carriage as required during disassembly/reassembly to prevent the carriage from contacting the parts to be removed. The carriage does not move when capped. When uncapping moving the carriage, refer to the procedures in [DISASSEMBLY/REASSEMBLY>Points to Note on Disassembly and Reassembly>Opening the Cap/Moving the Wiper Unit](#).

4.3.3 Units requiring draining of ink

iPF6100 / iPF6200 / iPF6000S / iPF6300 / iPF6350 / iPF6300S

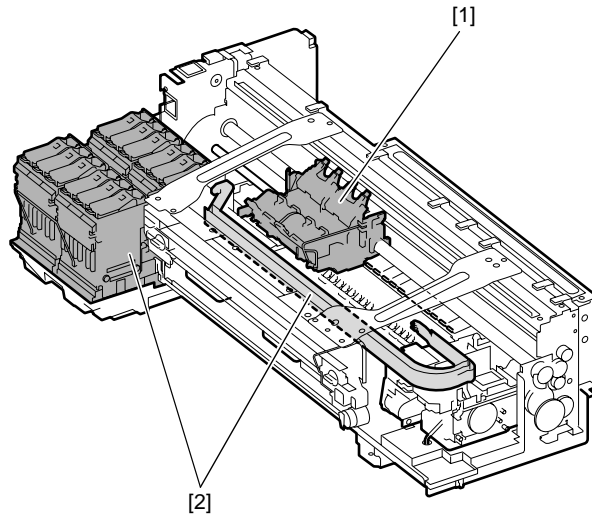
When disassembling the following units, drain the ink completely, to prevent ink leakage. For ink drain instructions, refer to DISASSEMBLY/REASSEMBLY > Points to Note on Disassembly and Reassembly > Draining the Ink.

[1] Carriage unit

Refer to DISASSEMBLY/REASSEMBLY > Points to Note on Disassembly and Reassembly > Carriage Unit.

[2] Ink tank unit

Refer to DISASSEMBLY/REASSEMBLY > Points to Note on Disassembly and Reassembly > Ink Tank Unit.



F-4-3

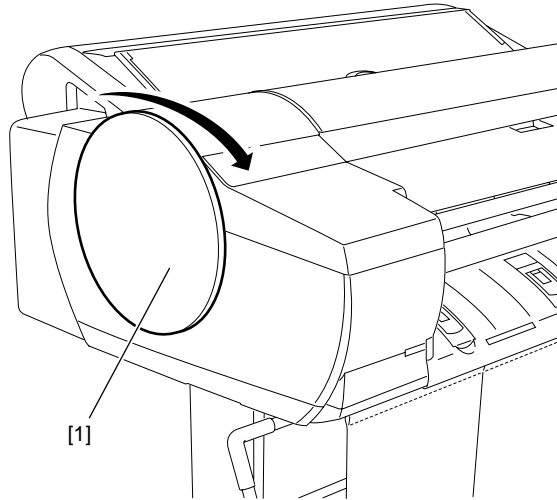
4.3.4 External Covers

iPF6100 / iPF6200 / iPF6000S / iPF6300 / iPF6350 / iPF6300S

a) Left/right circle cover

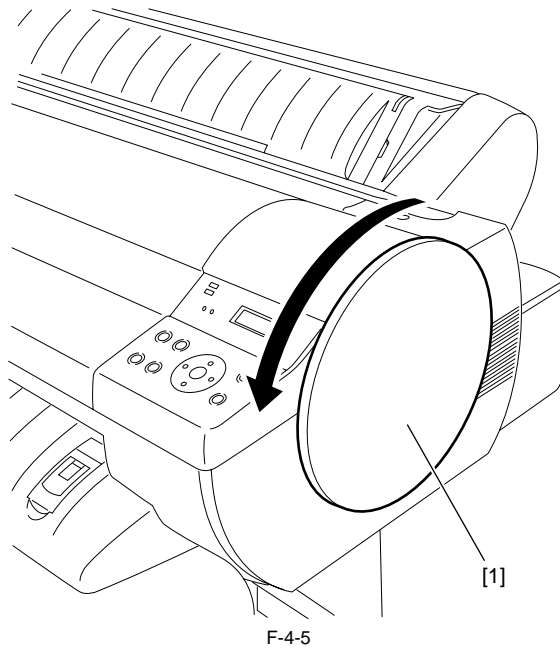
Removing the left/right circle cover

1) When removing the left circle cover [1], turn it in the direction of the arrow.



F-4-4

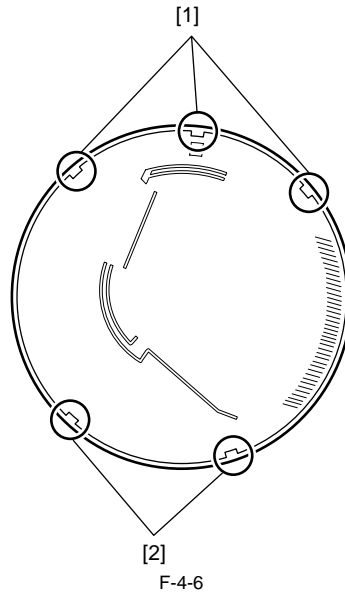
2) When removing the right circle cover[1], turn it in the direction of the arrow.



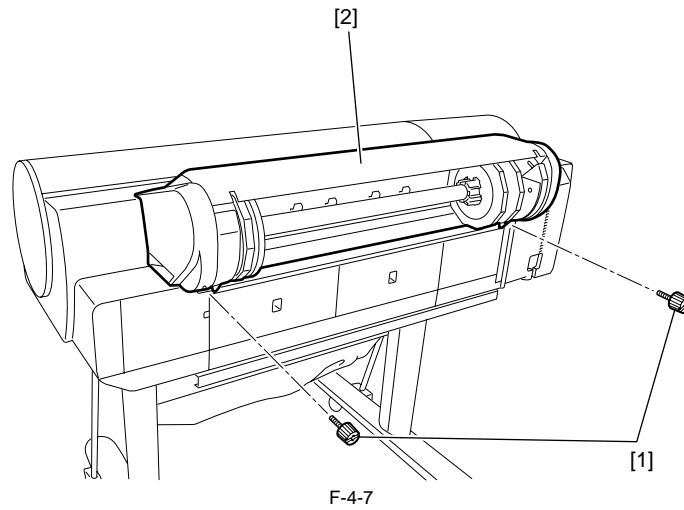
F-4-5

Attaching the left/right circle cover

1) When attaching the left circle cover, fit it in place with the three hooks[1] up and turn it toward the rear side of the printer. When attaching the right circle cover, fit it in place with the two hooks[2] up and turn it toward the rear side of the printer.

**b) Roll Feed Unit****Removing the roll feed unit**

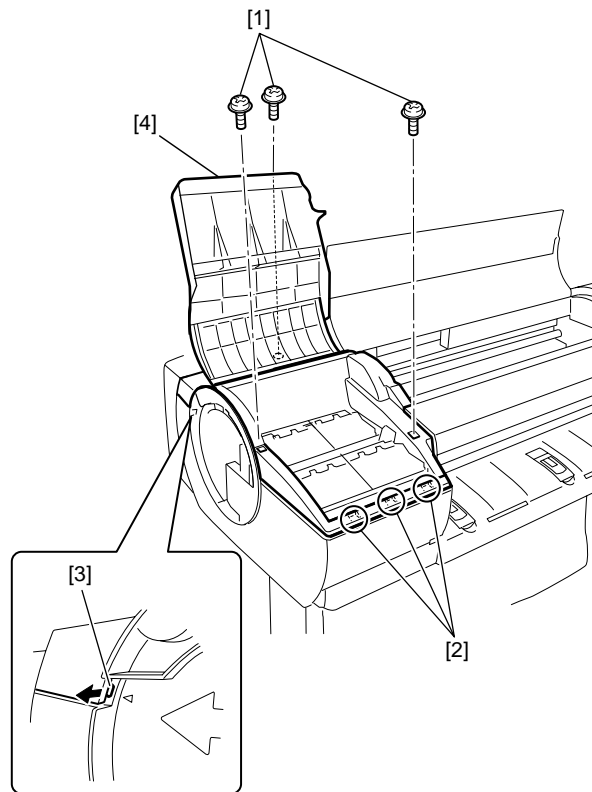
1) Remove two coin screws[1] to remove roll feed unit[2].



c) Tank cover

Removing the tank cover

- 1) When removing the tank cover[4], open the top cover, and then remove the roll feed unit and left circle cover.
- 2) Open the tank cover[4], remove the three screws[1], and then release the three hooks[2] while opening the hook[3] outward.

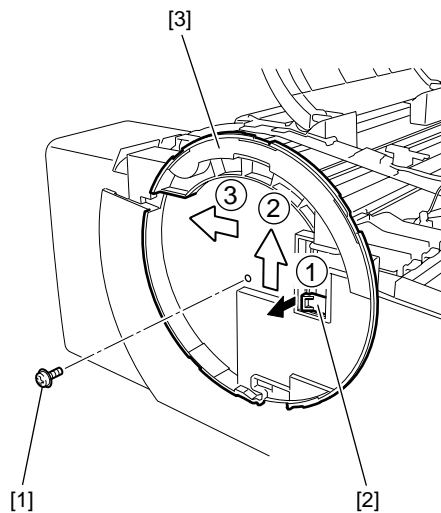


F-4-8

d) Left cover

Removing the left cover

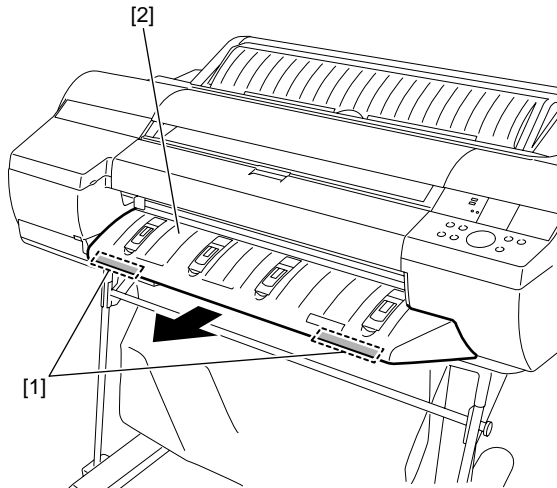
- 1) When removing the left cover[3], open the top cover, and then remove the left circle cover and tank cover.
- 2) Remove the screw[1] and the hook[2], and slide the left cover in the direction of arrow 2, and then slide it in the direction of arrow 3.



F-4-9

e) Output guide**Removing the output guide**

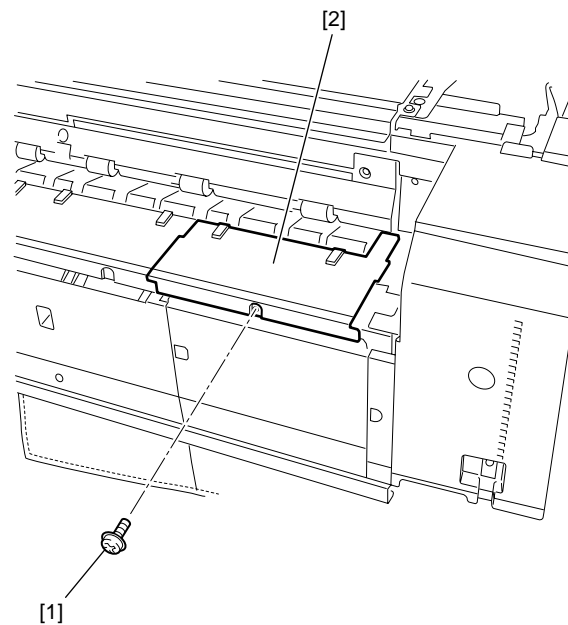
1) To remove the output guide[2], pull it by holding the handles[1].



F-4-10

f) Lower rear left cover**Removing the lower rear left cover**

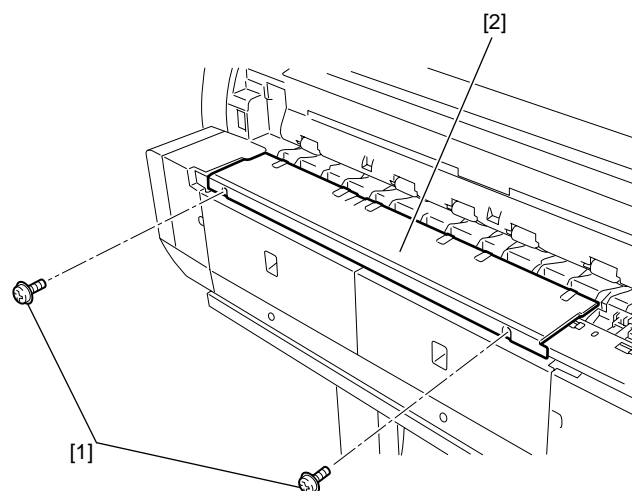
1) Remove the screw[1] to remove the lower rear left cover [2].



F-4-11

g) Lower rear cover**Removing the lower rear cover**

1) When removing the lower rear cover[2], remove the two screws[1] and then remove it.

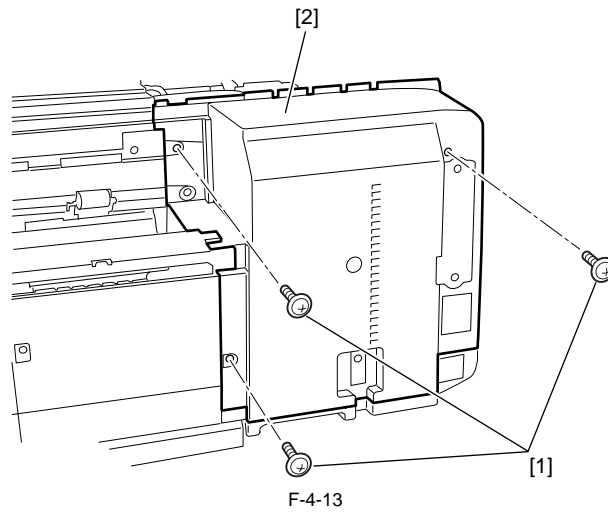


F-4-12

h) Left rear cover

Removing the left rear cover

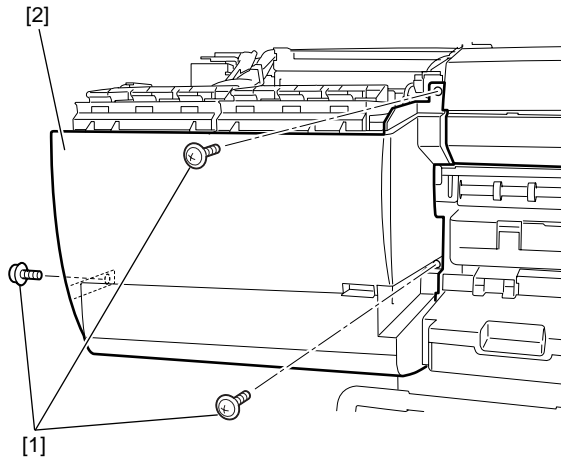
- 1) When removing the left rear cover[2], open the top cover, and then remove the roll feed unit, left circle cover, tank cover, left cover, lower rear cover, and lower rear left cover.
- 2) Remove the three screws[1], and then remove the left rear cover[2].



i) Left front cover

Removing the left front cover

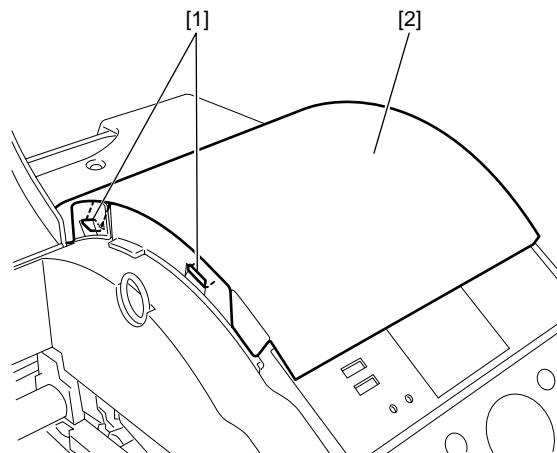
- 1) When removing the left front cover[2], open the top cover, and then remove the roll feed unit, left circle cover, tank cover, and output guide.
- 2) Remove the three screws[1], and then remove the left front cover[2].



j) Right upper cover

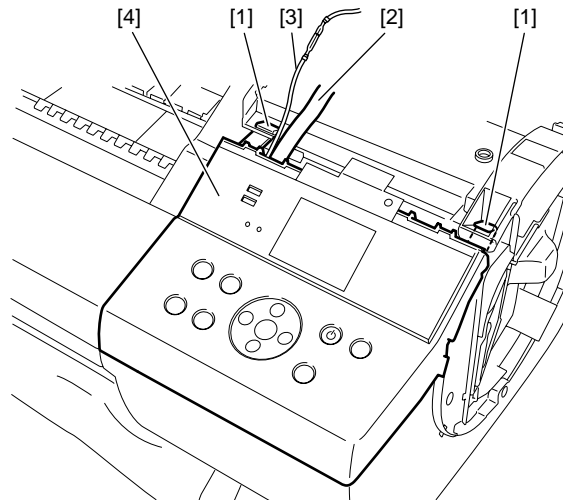
Removing the right upper cover

- 1) When removing the right upper cover[2], open the top cover, and then remove the right circle cover.
- 2) Release the two hooks[1], and then remove the right upper cover[2].



k) Operation panel**Removing the operation panel**

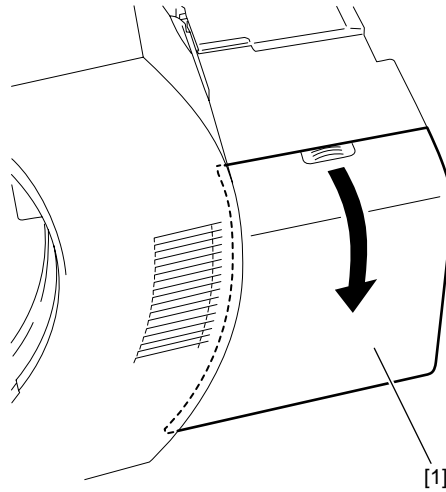
- 1) When removing the operation panel[4], open the top cover, and then remove the right circle cover and right upper cover.
- 2) Remove the two hooks[1] and flexible cable[2] and earth cable[3], and then remove the operation panel[4].



F-4-16

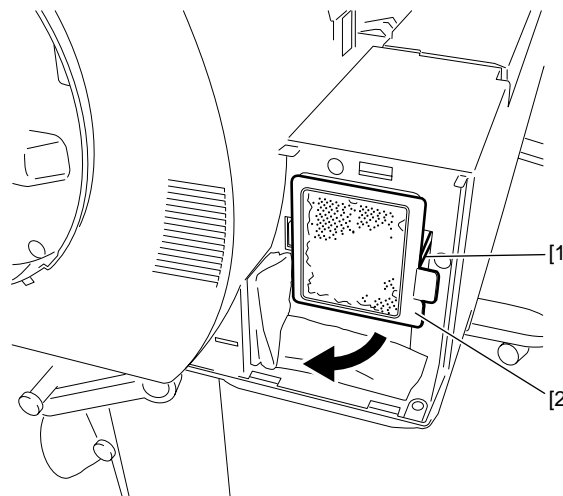
l) Exhaust Filter**Removing the exhaust filter**

- 1) When removing the filter cover[1], push it in the direction of the arrow while pressing on the handhold.



F-4-17

- 2) Remove the exhaust filter[2] while pushing the hook[1].

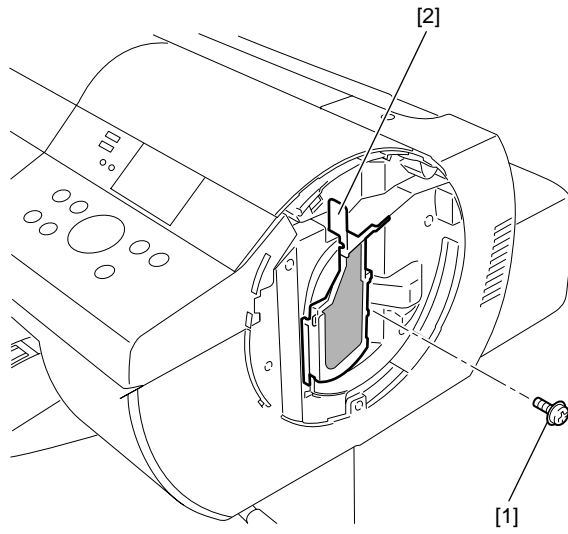


F-4-18

m) Mist filter

Removing the mist filter

- 1) When removing the mist filter[2], open the top cover, and then remove the right circle cover.
- 2) Removing the screw[1], and then remove the mist filter[2].

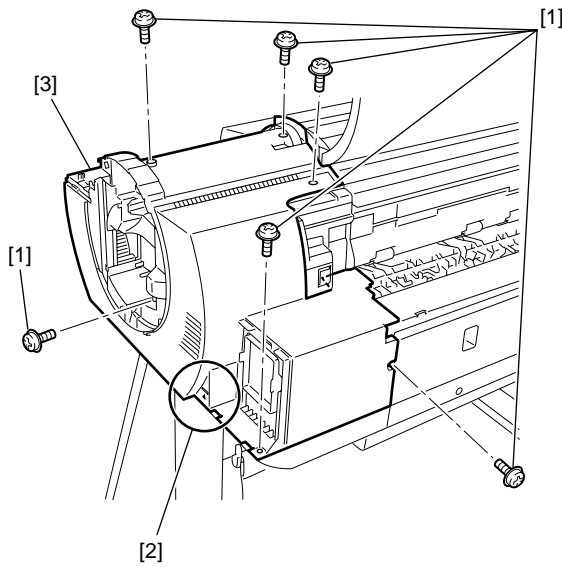


F-4-19

n) Right cover

Removing the right cover

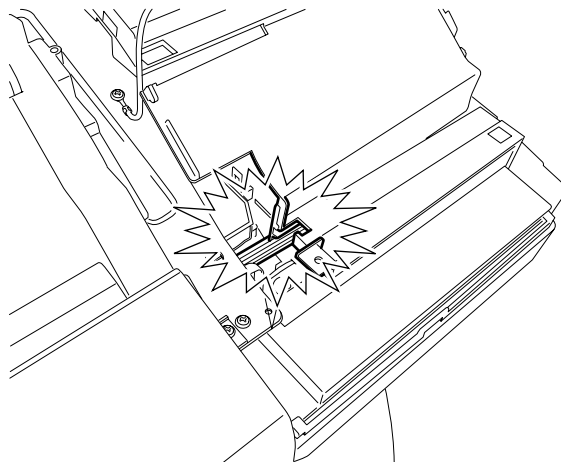
- 1) When removing the right cover[3], open the top cover, and then remove the roll feed unit, right circle cover, right upper cover, operation panel, mist filter, exhaust filter, and lower rear cover.
- 2) Remove the six screws[1] and hook[2], and then remove the right cover[3].



F-4-20

Note on attaching the right cover

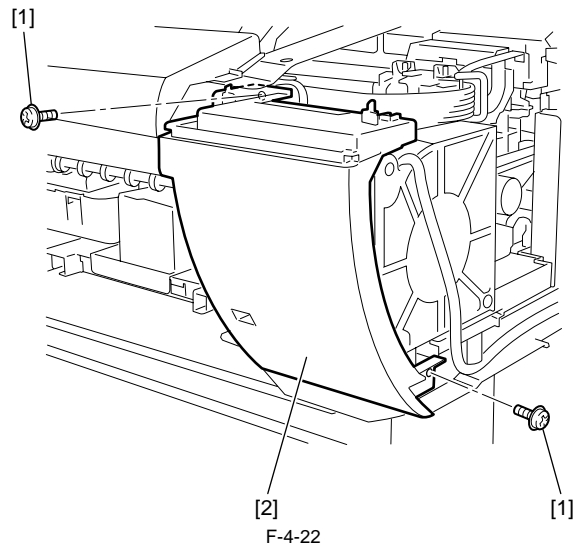
Be careful in attaching the right cover not to press the ink tubes with the edges of the cover.



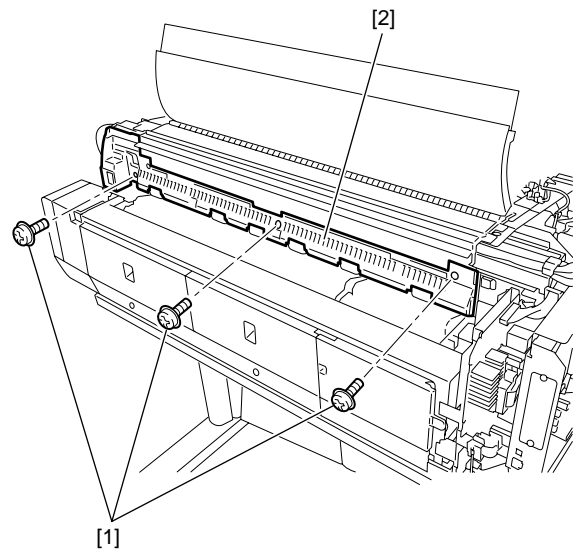
F-4-21

o) Right front cover**Removing the right front cover**

- 1) When removing the right front cover[2], open the top cover, and then remove the roll feed unit, output guide, right circle cover, operation panel, exhaust filter, right cover, and lower rear cover.
- 2) Remove the two screws[1], and then remove the right front cover[2].

**p) Rear cover****Removing the rear cover**

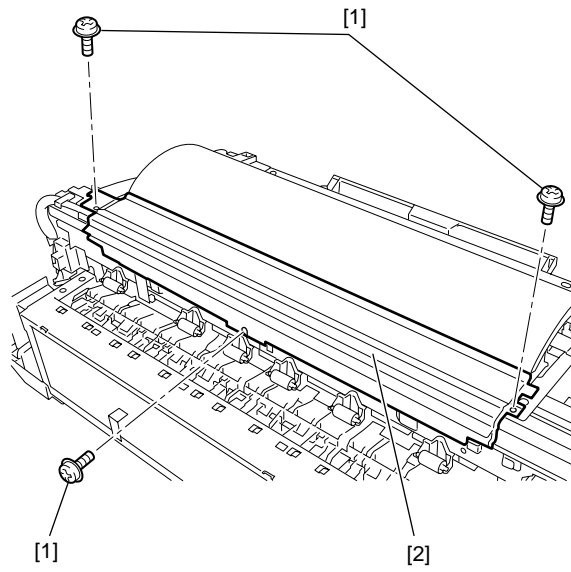
- 1) When removing the rear cover[2], open the top cover, and then remove the roll feed unit, left circle cover, tank cover, left circle cover, right upper cover, operation panel, exhaust filter, right cover, lower rear cover, left cover, and left rear cover.
- 2) Remove the three screws[1], and then remove the rear cover[2].



q) Upper rear cover

Removing the upper rear cover

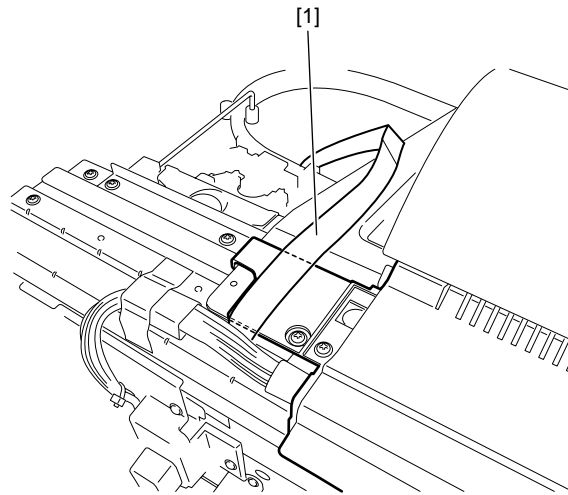
- 1) When removing the upper rear cover[2], open the top cover, and then remove the roll feed unit, left circle cover, tank cover, left cover, right circle cover, right upper cover, operation panel, exhaust filter, right cover, and lower rear cover.
- 2) Remove the three screws[1], and then remove the upper rear cover[2].



F-4-24

Note on attaching upper rear cover

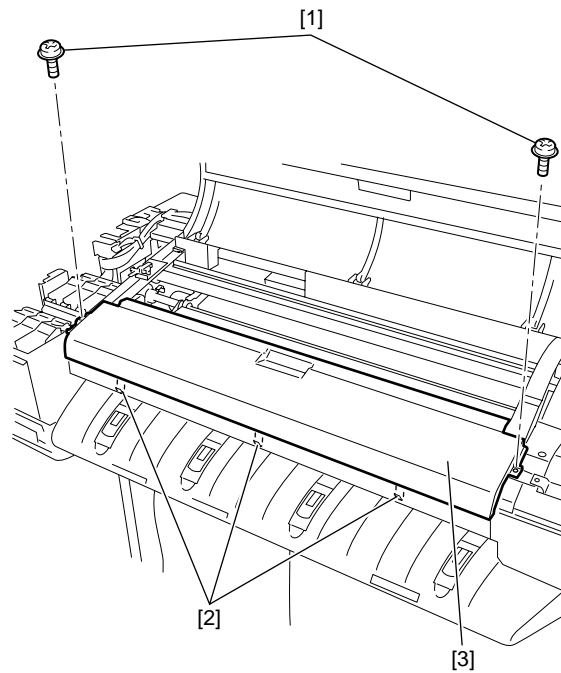
In attaching the upper rear cover, allow flexible cable[1] in the control area to pass over the cover.



F-4-25

r) Upper front cover**Removing the upper front cover**

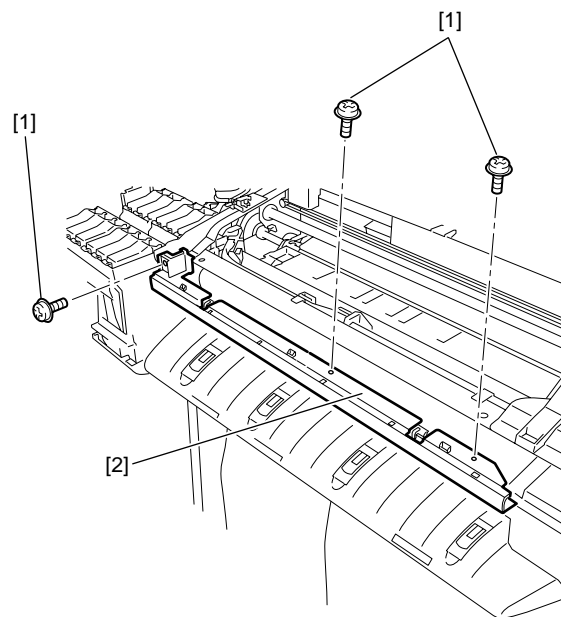
- 1) When removing the upper front cover[3], open the top cover, and then remove left circle cover, tank cover, left cover, right circle cover, right upper cover, operation panel, right cover, and exhaust filter.
- 2) Remove the two screws[1], and then remove the upper front cover[3] while releasing the three hooks[2].



F-4-26

s) Lower front cover**Removing the lower front cover**

- 1) When removing the lower front cover[3], open the top cover, and then remove the roll feed unit, left circle cover, tank cover, right circle cover, right upper cover, operation panel, upper front cover, right cover, and exhaust filter.
- 2) Remove the three screws[1] and release the harness to remove the lower front cover[2].

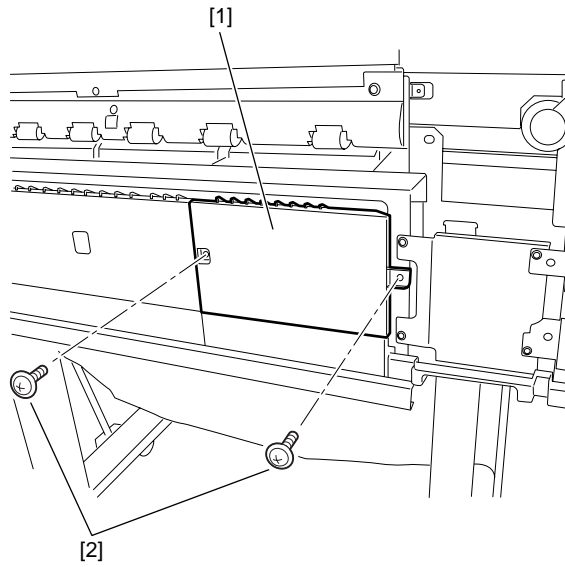


F-4-27

t) Left back cover

Removing the left back cover

- 1) When removing the left back cover[1], open the top cover, and then remove the roll feed unit, left circle cover, tank cover, left cover, lower rear cover, lower rear left cover, and left rear cover.
- 2) Remove the two screws[2], and then remove the left back cover[1].

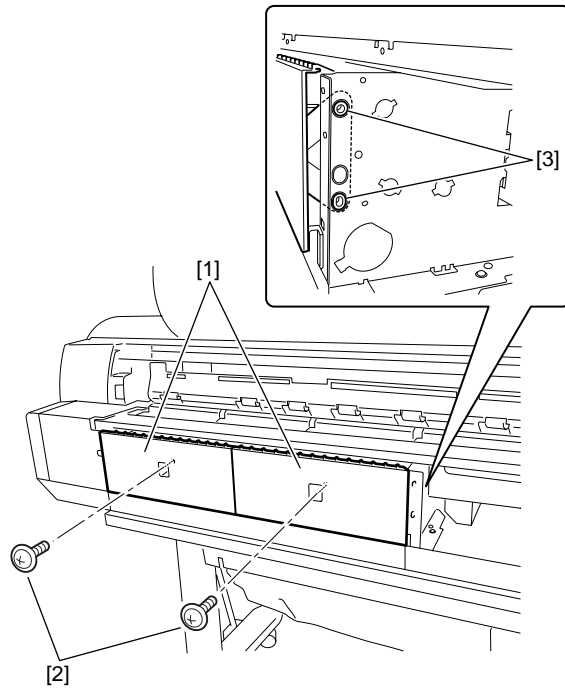


F-4-28

u) Back cover

Removing the back cover

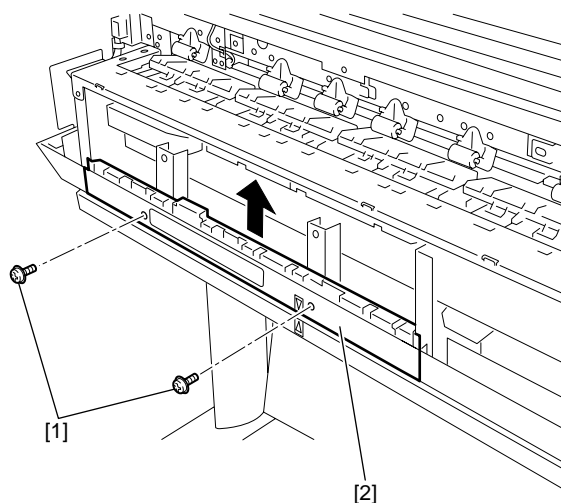
- 1) When removing the back cover[1], open the top cover, and then remove the roll feed unit, left circle cover, tank cover, left cover, lower rear cover, lower rear left cover, left rear cover, and left back cover.
- 2) Remove the two screws[2] and two hooks[3], and then remove the back cover[1].



F-4-29

v) Lower back cover**Removing the lower back cover**

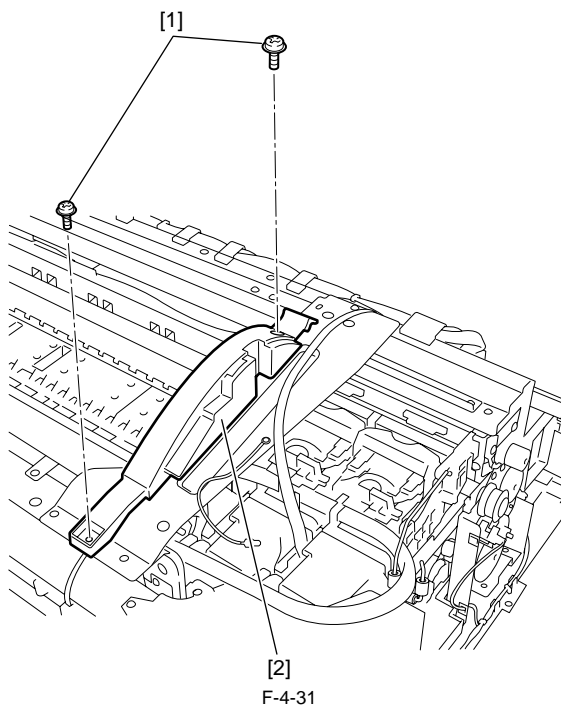
- 1) When removing the lower back cover[2], open the top cover, and then remove the roll feed unit, left circle cover, tank cover, left cover, lower rear cover, lower rear left cover, left rear cover, right circle cover, right upper cover, operation panel, exhaust filter, and right cover.
- 2) Remove the two screws[1], and then remove the lower back cover[2].



F-4-30

w) Cover guide**Removing the cover guide**

- 1) When removing the cover guide[2], open the top cover, and then remove the roll feed unit, left circle cover, tank cover, left cover, right circle cover, right upper cover, operation panel, exhaust filter, lower rear cover, lower rear left cover, left lower cover, rear cover, upper rear cover, upper front cover.
- 2) Remove the two screws[1], and then remove the cover guide[2].

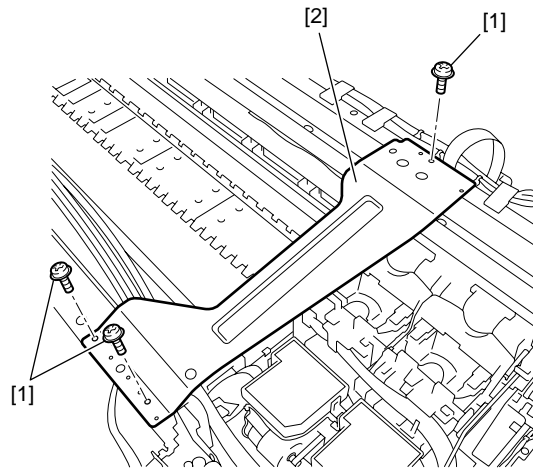


F-4-31

x) Cover support plate (right)

Removing cover support plate (right)

- 1) When removing the cover support plate (right)[2], open the top cover, and then remove the roll feed unit, left circle cover, tank cover, left cover, right circle cover, right upper cover, operation panel, exhaust filter, right cover, lower rear cover, left rear cover, rear cover, upper rear cover, upper front cover, and cover guide.
- 2) Remove the three screws[1], and then remove the cover support plate (right)[2].

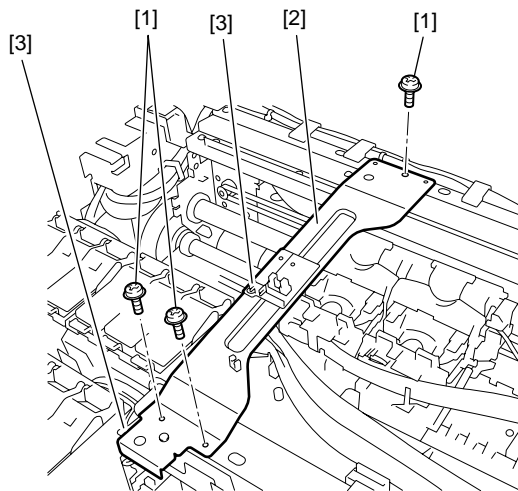


F-4-32

y) Cover support plate (left)

Removing the cover support plate (left)

- 1) When removing the cover support plate (left)[2], open the top cover, and then remove the roll feed unit, left circle cover, tank cover, left front cover, left cover, right circle cover, right upper cover, operation panel, exhaust filter, right cover, lower rear cover, rear cover, upper rear cover, upper front cover, and lower front cover.
- 2) Remove the three screws[1] and two connectors[3], and then remove the cover support plate (left)[2].



F-4-33

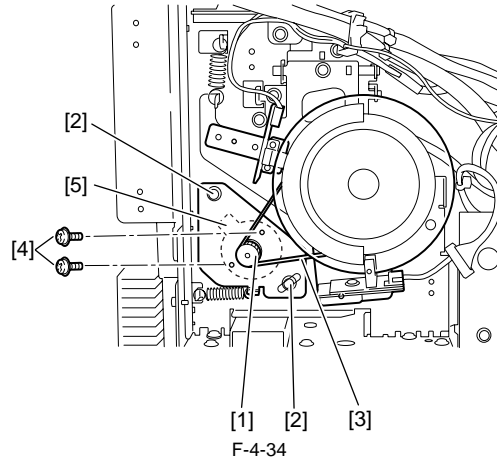
4.3.5 Driving Unit

iPF6100 / iPF6200 / iPF6000S / iPF6300 / iPF6350 / iPF6300S

a) Feed motor

Removing the feed motor

- 1) When removing the feed motor[1], remove the main controller support plate.
Refer to DISASSEMBLY/REASSEMBLY > Points to Note on Disassembly and Reassembly > PCBs
- 2) Loosen the two screws[2], and then remove the timing belt[3] from the pulley.
- 3) Remove the two screws[4] and connector[5], and then remove the feed motor[1].



Note on mounting the feed motor

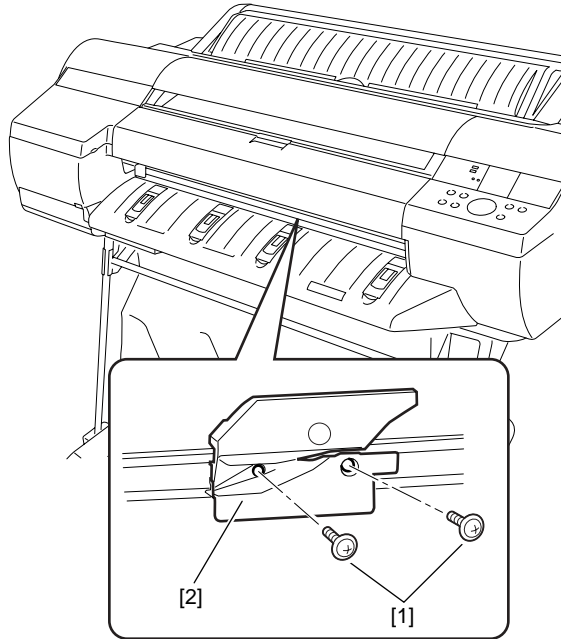
When mounting the feed motor, attach the timing belt[3] on the pulley, and then tighten the two screws[2].

4.3.6 Cutter

iPF6100 / iPF6200 / iPF6000S

a) Removing the Cutter

- 1) Perform service mode: [SERVICE MODE] > [REPLACE] > [CUTTER] and then choose [YES] to move the cutter to the replacement place.
- 2) Remove two screws [1] to remove the cutter [2].



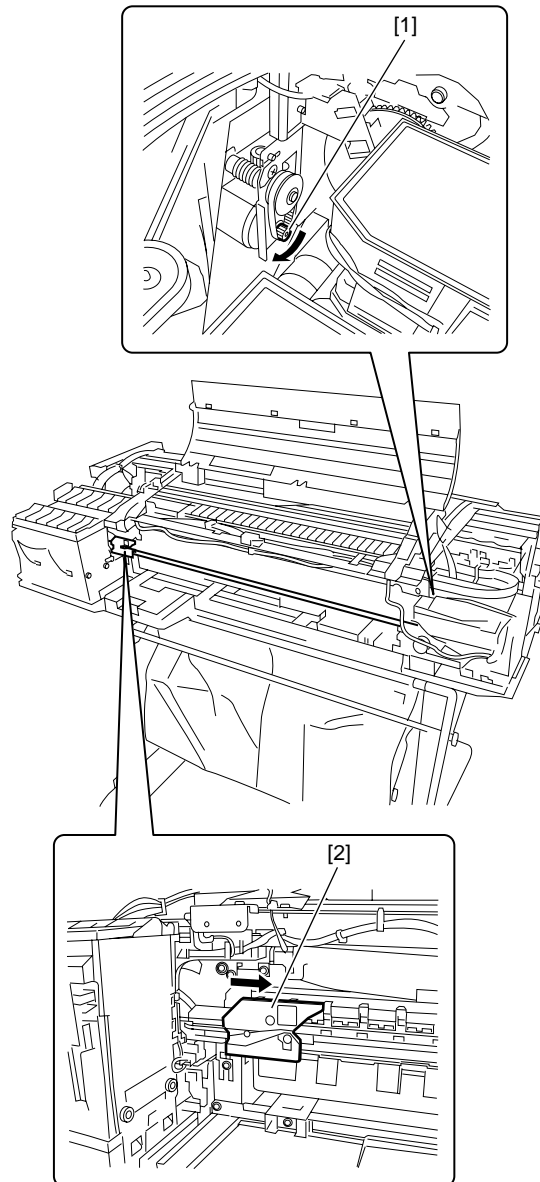
F-4-35

MEMO:
After replacing the cutter, obey the message that displayed on the LCD to initialize the parts counter information. Then, the cutter moves to home position automatically.

b) Removing the cutter unit

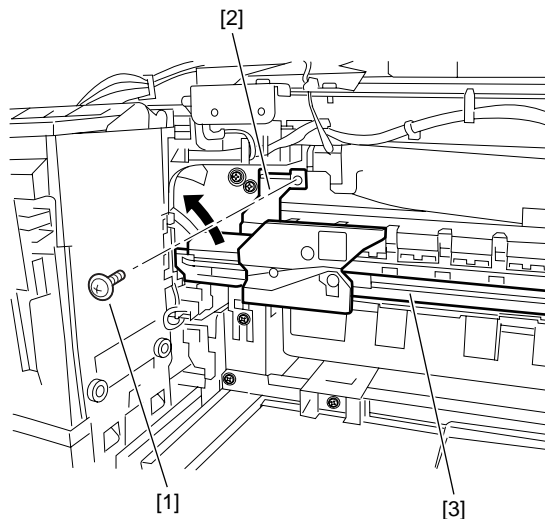
1) When removing the cutter unit, open the top cover, and then remove the roll feed unit, output guide, left and right circle covers, tank cover, left front cover, right upper cover, operation panel, exhaust filter, lower rear cover, right cover, right front cover, upper front cover, lower front cover. Refer to DISASSEMBLY/REASSEMBLY > Points to note on Disassembly and Reassembly > External Covers.

2) Turning the motor pulley[1] in the arrow direction, move the cutter[2] about 2cm to the right of the left most end.



F-4-36

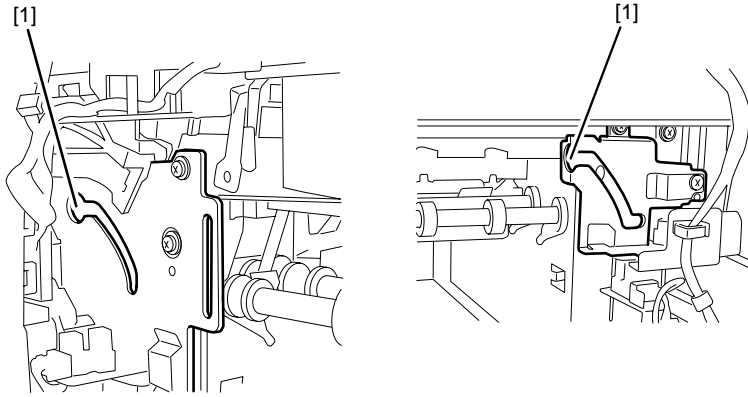
3) Remove the screw[1] and clamp[2] and slide cutter unit[3] to left obliquely upward out of position.



F-4-37

c) Points to note on Disassembly an Reassembly of Cutter unit

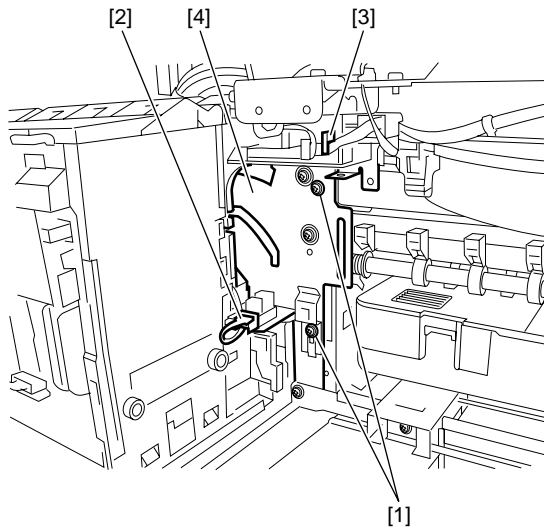
1) When disassembling or reassembling the cutter unit, align the cutter unit roller with the grooves[1] in the cutter lifter unit and cutter drive unit.



F-4-38

d) Removing the cutter mounting plate

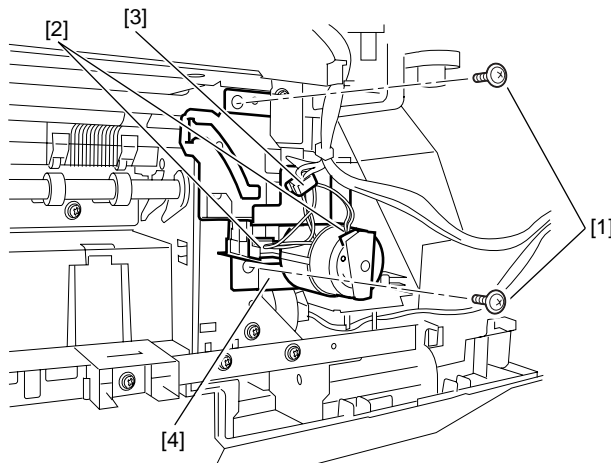
- 1) Remove the cutter unit.
- 2) Remove the two screws[1] and connector[2] and free the harness from harness guide[3] to remove the cutter mounting plate[4].



F-4-39

e) Removing the cutter drive unit

- 1) Remove the cutter unit.
- 2) Remove the two screws[1] and two connectors[2] and free the harness from harness guide [3] to remove the cutter drive unit[4].



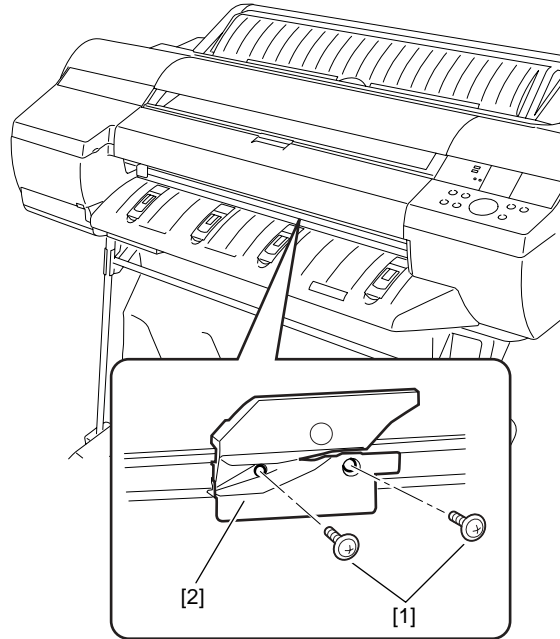
F-4-40

4.3.7 Cutter

iPF6300 / iPF6350 / iPF6300S

a) Removing the Cutter

- 1) Perform service mode: [SERVICE MODE] > [REPLACE] > [CUTTER] and then choose [YES] to move the cutter to the replacement place.
- 2) Remove two screws [1] to remove the cutter [2].



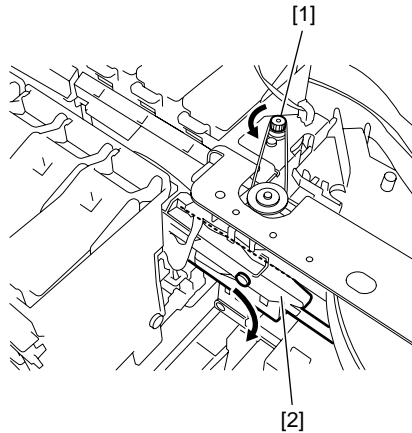
F-4-41

MEMO:

After replacing the cutter, choose [CLR COUNTER CT-1] > [YES] that displayed on the LCD to initialize the parts counter information. Then, the cutter moves to home position automatically.

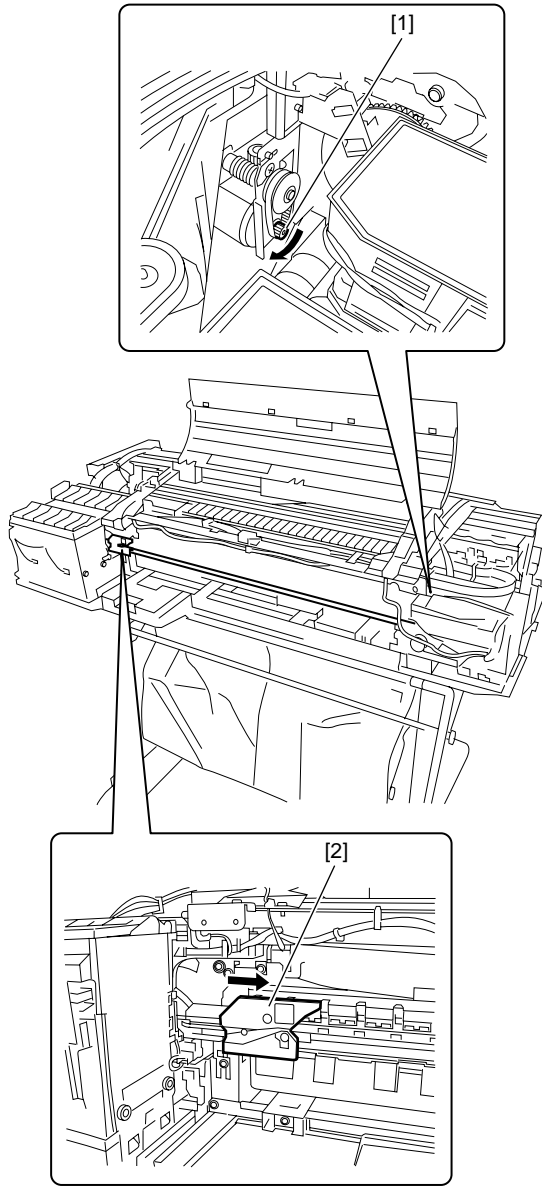
b) Removing the cutter unit

- 1) When removing the cutter unit, open the top cover, and then remove the roll feed unit, output guide, left and right circle covers, tank cover, left front cover, right upper cover, operation panel, exhaust filter, lower rear cover, right cover, right front cover, upper front cover, lower front cover. Refer to DISASSEMBLY/REASSEMBLY > Points to note on Disassembly and Reassembly > External Covers.
- 2) Turn the motor pulley [1] in the direction of the arrow to lower the cutter unit [2].



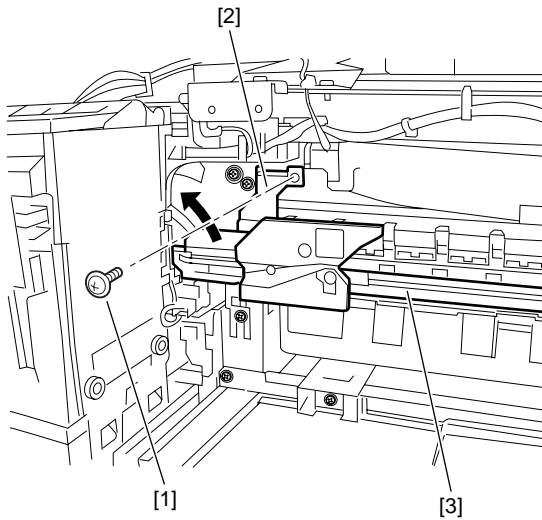
F-4-42

3) Turning the motor pulley[1] in the arrow direction, move the cutter[2] about 2cm to the right of the left most end.



F-4-43

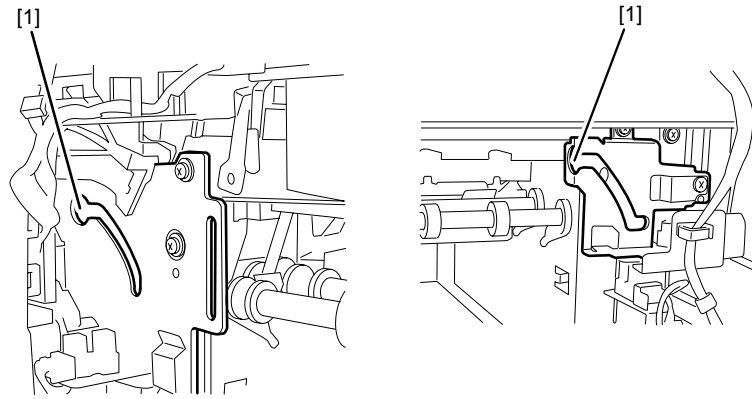
4) Remove the screw[1] and clamp[2] and slide cutter unit[3] to left obliquely upward out of position.



F-4-44

c) Points to note on Disassembly and Reassembly of Cutter unit

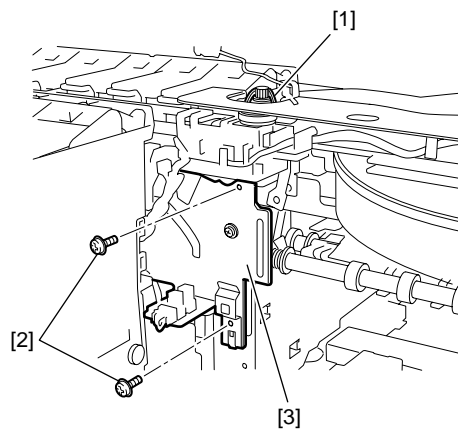
1) When disassembling or reassembling the cutter unit, align the cutter unit roller with the grooves[1] in the cutter lifter unit and cutter drive unit.



F-4-45

d) Removing the cutter lifter unit

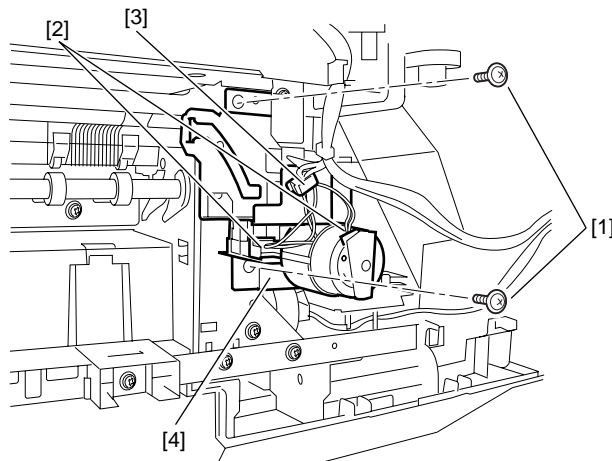
1) Remove the cutter unit.
2) Remove the belt[1], two screws[2], and harness, and then remove the cutter lifter unit[3].



F-4-46

e) Removing the cutter drive unit

1) Remove the cutter unit.
2) Remove the two screws[1] and two connectors[2] and free the harness from harness guide [3] to remove the cutter drive unit[4].



F-4-47

4.3.8 Carriage Unit

iPF6100 / iPF6200 / iPF6000S

a) Removing the carriage unit

1) Drain the ink.

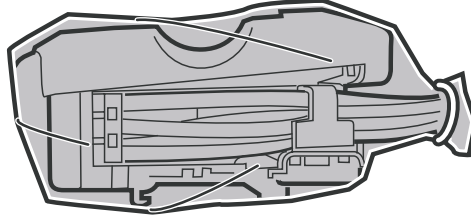
Refer to DISASSEMBLY/REASSEMBLY > Points to Note on Disassembly and Reassembly > Draining the Ink.

2) Turn off the power, and then move the carriage over the platen.

Refer to DISASSEMBLY/REASSEMBLY > Points to Note on Disassembly and Reassembly > Opening the Cap/Moving the Wiper Unit.

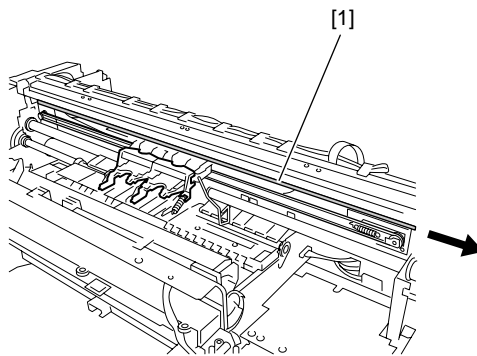
3) Remove the printhead.

4) Remove the joint of the ink tube unit. Wrap the removed joint with a plastic bag or other covering so that ink does not splash, then close the plastic bag.



F-4-48

5) Remove the linear scale[1] from the right clamp plate's spring, and then remove it rightward.

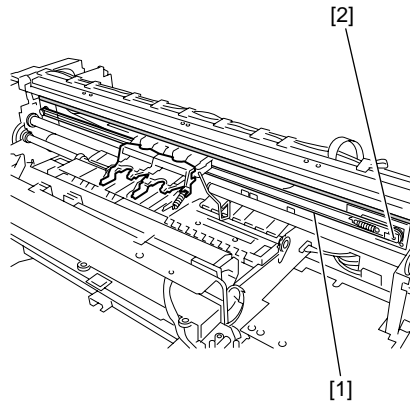


F-4-49



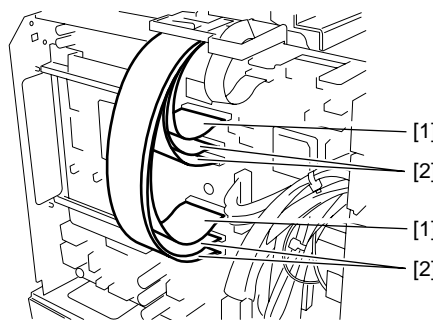
When removing the linear scale, take care not to damage or stain it. The stained or damaged liner plate can cause malfunction.

6) While sliding the pulley[2] to the left, remove the carriage belt[1]. Tie the removed belt lightly on the unit.



F-4-50

7) Disconnect the two connectors[1] and four connectors[2] of the flexible cables on the main controller PCB.

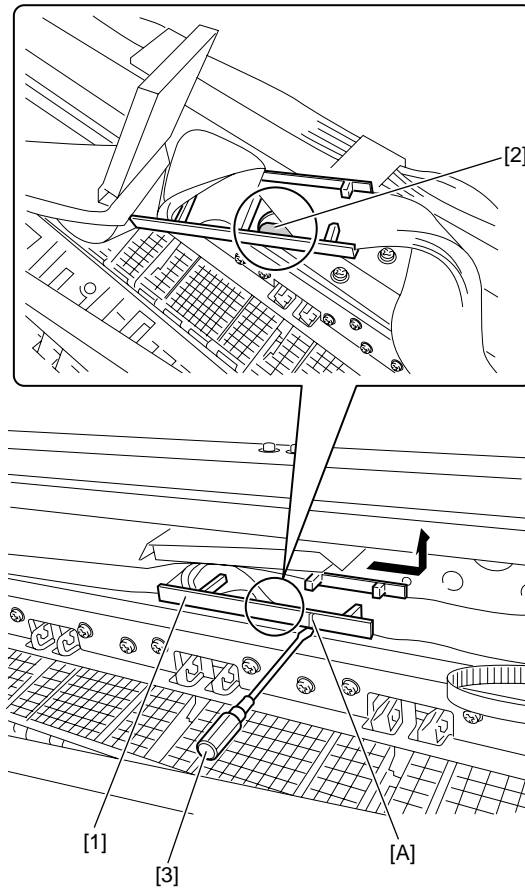


F-4-51



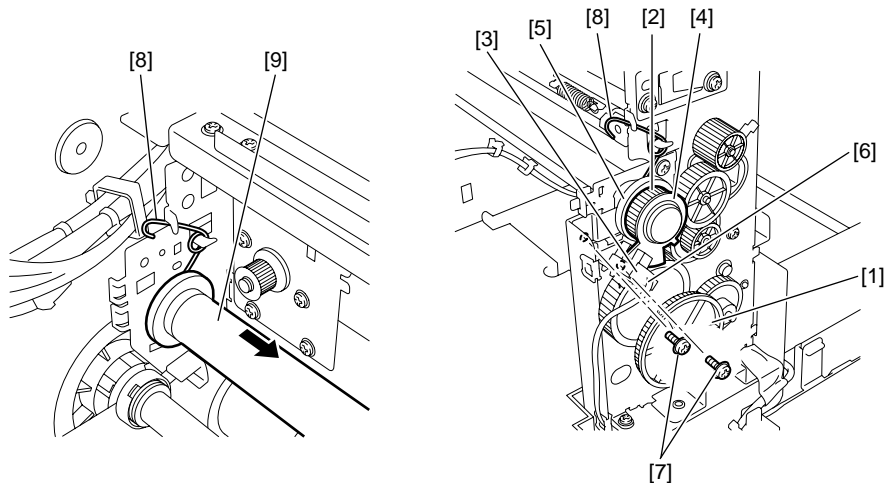
The flexible cable connectors[2] are provided with a locking mechanism. When disconnecting or reconnecting the flexible cable, be sure to release the lock. Otherwise, the flexible cable can damage, resulting in malfunction.

8) Insert the flat-head screwdriver[3] into the part shown to release the hook[2] and then remove the flexible cable retainer[1]. (If the flexible cable retainer[1] is marked with index[A], insert the flat-head screw driver to meet the index.)



F-4-52

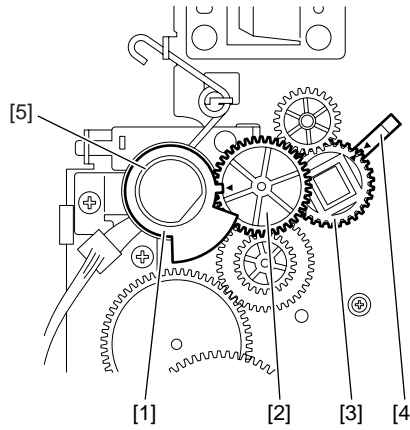
9) Turn the gear[1] so that the sensor flag of the lift gear[2] leaves the interrupt position of the lift cam sensor[3], then remove the ring[4], the lift gear[2] and the lift cam[5]. Disconnect the connector[6], remove the two screws[7], and then remove the lift cam sensor[3]. Remove the two torsion springs[8], pull out the carriage rail[9] from the right side of the printer, and then remove the carriage.



F-4-53

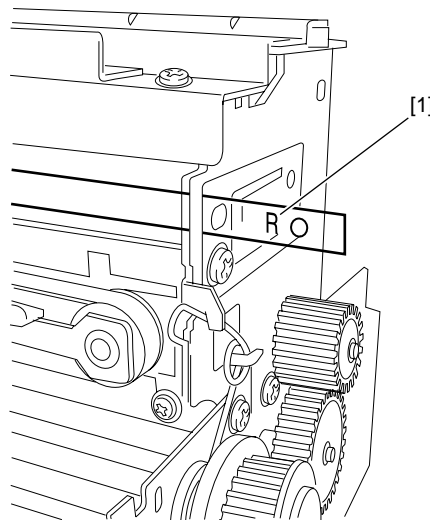
b) Points to Note on disassembly and Reassembly of Carriage Unit

1) Align the mark on the gear[3] with the mark on the bushing[4]. Align the mark on the lift gear[1] with the mark on the gear[2] to remove the ring[5].



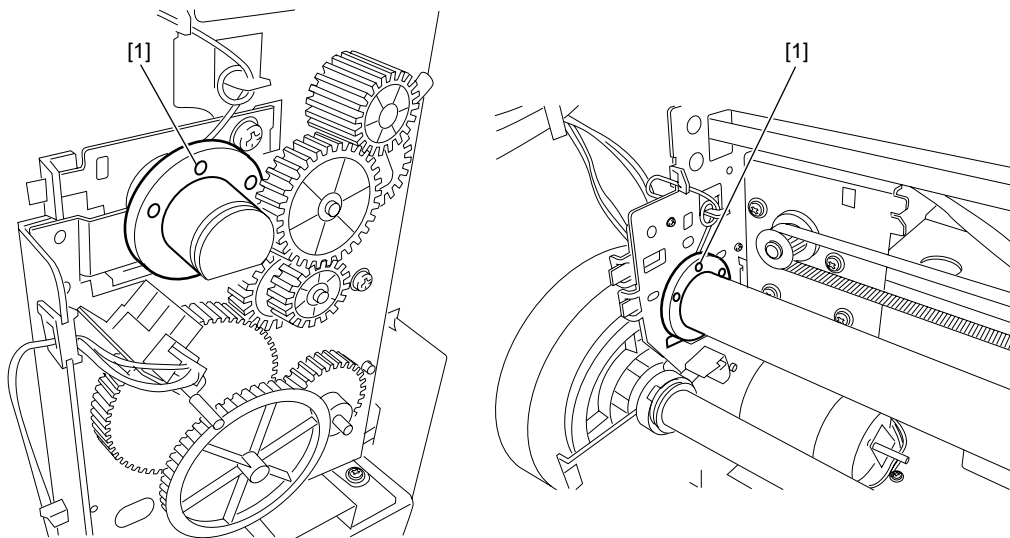
F-4-54

2) Install the linear scale with its R-mark [1] located on the right side of the unit.



F-4-55

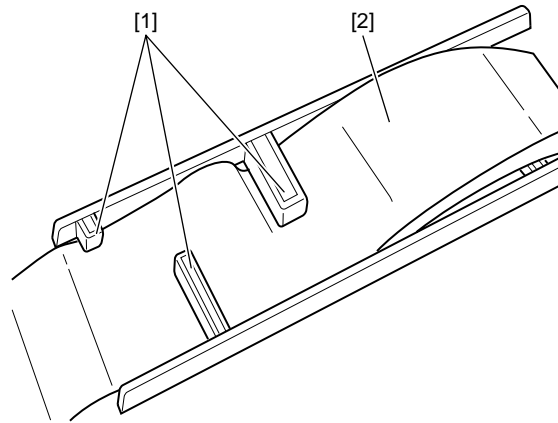
3) Install the left right lift cam [1] so its circular dent comes in the direction as shown (right side of the unit).



F-4-56

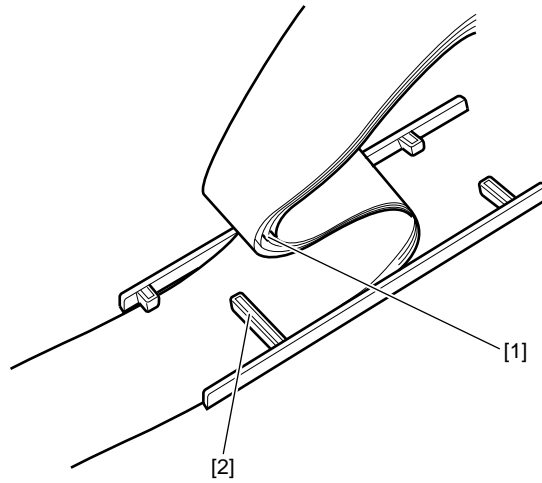
c) Note on attaching the flexible cable

1) Insert the flexible cable[2] through the three claws[1] in the flexible cable retainer.



F-4-57

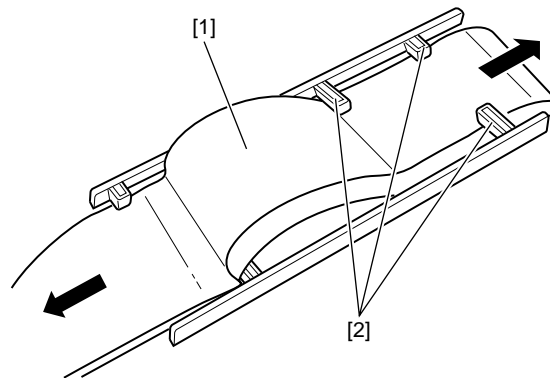
2) Lightly fold the flexible cable in its marked area[1] and pass it through claws[2].



F-4-58

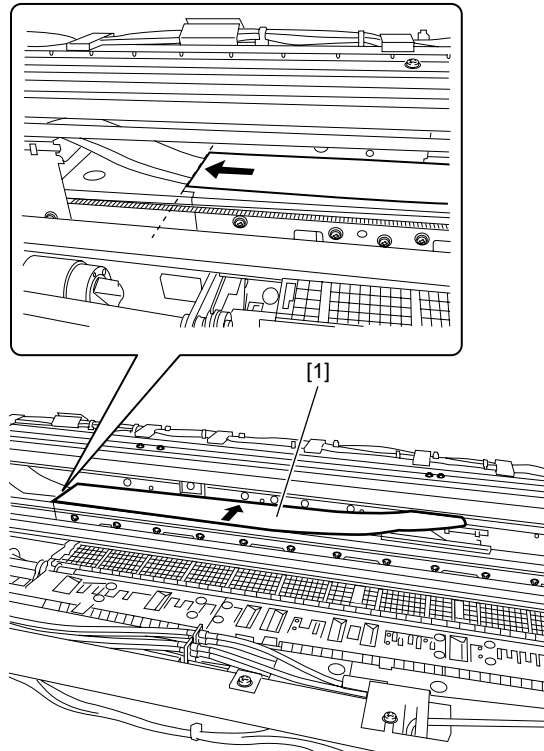
3) Insert folded flexible cable [1] through the three claws [2].

4) Pull the flexible cable [1] lightly from both sides to remove slacks in it.



F-4-59

- 5) Having installed the flexible cable retainer, align and flatten the flexible cables.
- 6) Attach the flexible guide sheet[1] over the flexible cable while matching its left end with the edge of the lower plate and bumping its rear side against the side plate in addition.



F-4-60

d) Multi Sensor Recalibration

Since the multi sensor has individual electrical specificity, the following are recalibrated at the factory, namely, the optical axis of the sensor, the sensor gain for measuring the printhead height and sensor calibration. Accordingly, carry out the following adjustments in the service mode whenever replacing the carriage unit or multi sensor.

* The multi sensor reference plate(QL2-1561-000:PLATE, REFLECTION, MULTI-SENSOR) must be replaced at the same time whenever the carriage or the multi sensor is being replaced.

- Service mode : SERVICE MODE > ADJUST > GAP CALIB.

- Service mode : SERVICE MODE > ADJUST > PRINT PATTERN > OPTICAL AXIS

Media type : Photo glossy paper

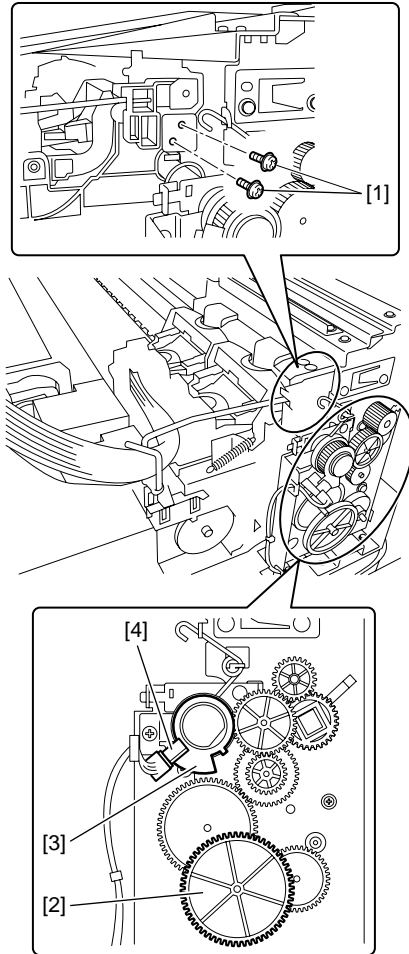
Media size : Media having a width equal too larger than that of A2-size paper

e) Adjusting the wire roller

To prevent the wire roller mounted on the carriage from contacting the duct and others during carriage operation, perform the following adjustment whenever you have removed or replaced the carriage unit. This adjustment is not required when you have replaced only the multi sensor.

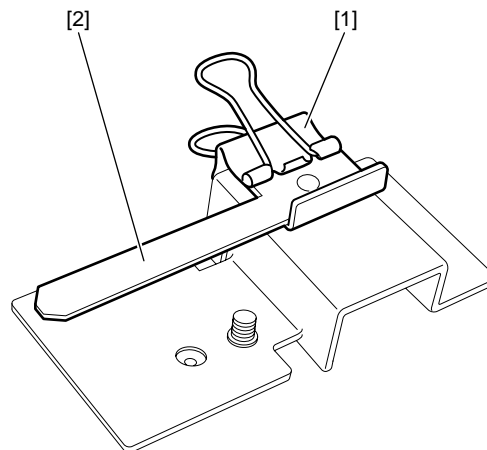
- Make adjustments with the carriage lock released.
- Make adjustments with the tube disconnected from the tube guide.

- 1) Remove the ink tube from the wire guide.
- 2) Loosen the two screws [1].
- 3) Turn the gear [2] until the lift cam flag [3] reaches the position shown below.
 - Bottom position where the sensor [4] light is blocked by the flag (lowest position to which the carriage unit descends)



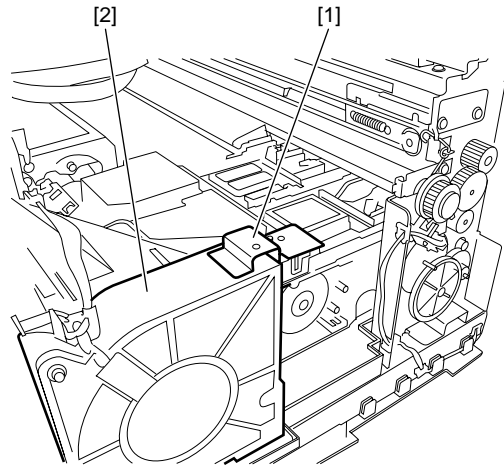
F-4-61

- 4) Remove the clip [1] and roller retainer [2] from the carriage wire tool.



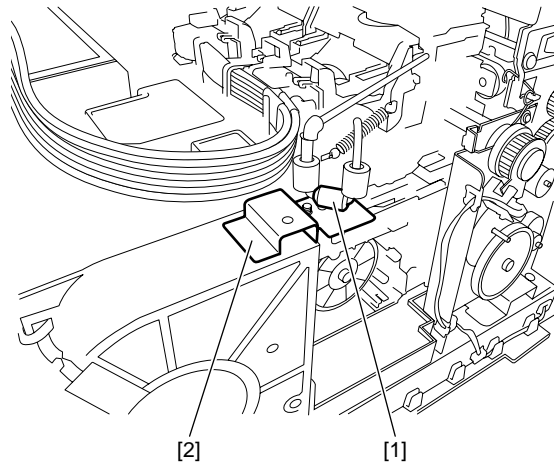
F-4-62

5) Install the carriage wire tool [1] in position with its leaf spring being attached to the top of mist fan [2].



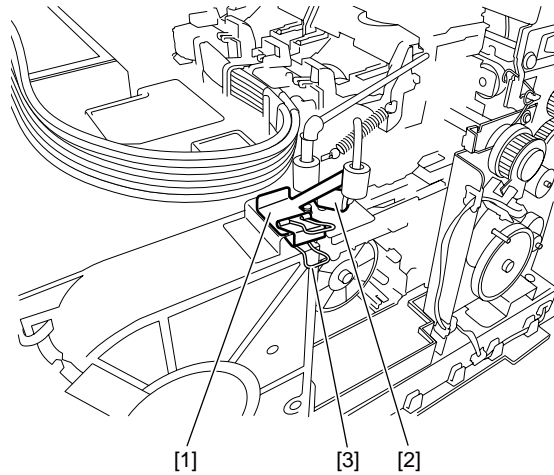
F-4-63

6) Moving the carriage, adjust the height of the wire guide to bring its roller [1] into contact with the top of carriage wire tool [2].



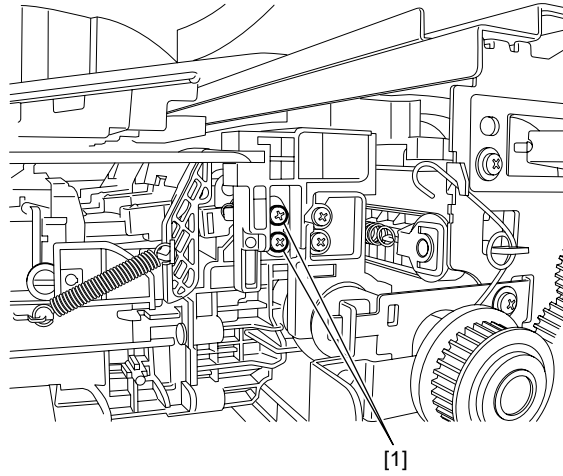
F-4-64

7) Secure the roller retainer [1] with the clip [3] in contact with the top of roller [2].



F-4-65

8) Retighten the two screws [1] loosened in Step 2) to secure the wire guide.



F-4-66

9) Pass the ink tubes through the wire guides.

4.3.9 Carriage Unit

iPF6300 / iPF6350 / iPF6300S

a) Removing the carriage unit

1) Drain the ink.

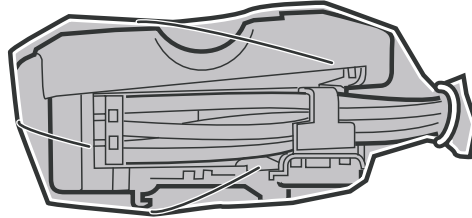
Refer to DISASSEMBLY/REASSEMBLY > Points to Note on Disassembly and Reassembly > Draining the Ink.

2) Turn off the power, and then move the carriage over the platen.

Refer to DISASSEMBLY/REASSEMBLY > Points to Note on Disassembly and Reassembly > Opening the Cap/Moving the Wiper Unit.

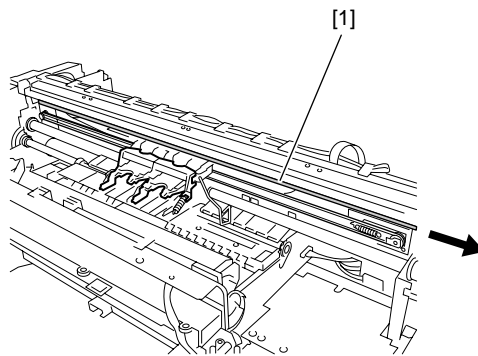
3) Remove the printhead.

4) Remove the joint of the ink tube unit. Wrap the removed joint with a plastic bag or other covering so that ink does not splash, then close the plastic bag.



F-4-67

5) Remove the linear scale[1] from the right clamp plate's spring, and then remove it rightward.

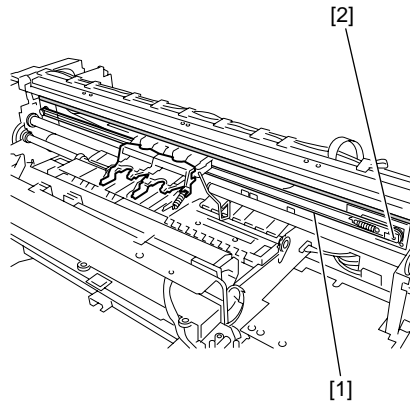


F-4-68



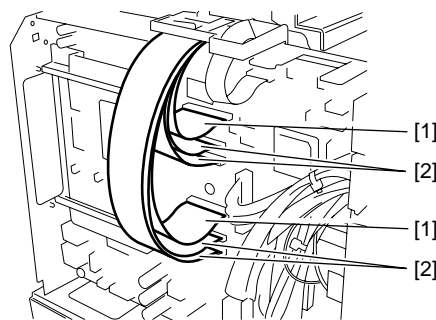
When removing the linear scale, take care not to damage or stain it. The stained or damaged liner plate can cause malfunction.

6) While sliding the pulley[2] to the left, remove the carriage belt[1]. Tie the removed belt lightly on the unit.



F-4-69

7) Disconnect the two connectors[1] and four connectors[2] of the flexible cables on the main controller PCB.

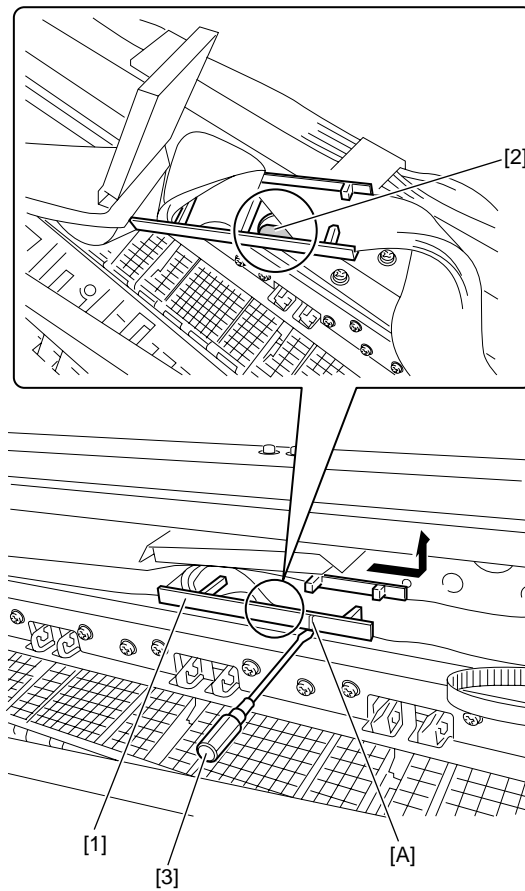


F-4-70



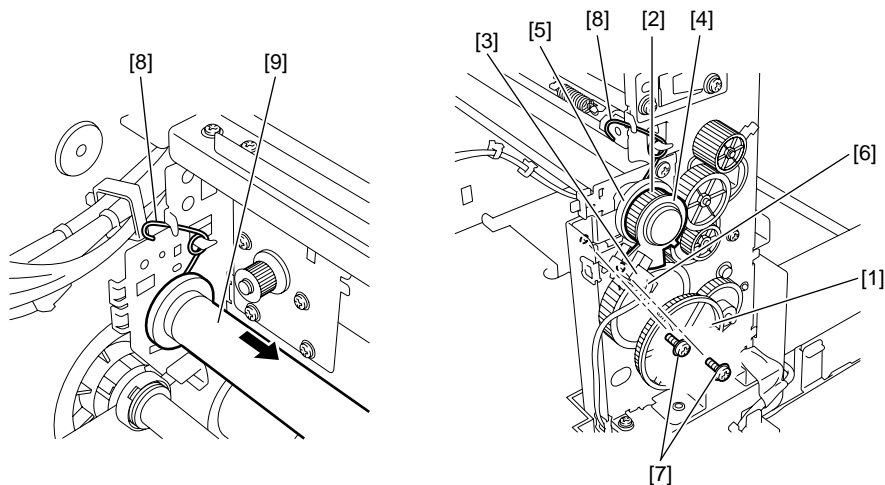
The flexible cable connectors[2] are provided with a locking mechanism. When disconnecting or reconnecting the flexible cable, be sure to release the lock. Otherwise, the flexible cable can damage, resulting in malfunction.

8) Insert the flat-head screwdriver[3] into the part shown to release the hook[2] and then remove the flexible cable retainer[1]. (If the flexible cable retainer[1] is marked with index[A], insert the flat-head screw driver to meet the index.)



F-4-71

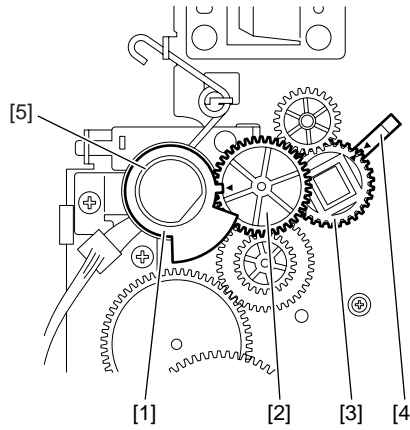
9) Turn the gear[1] so that the sensor flag of the lift gear[2] leaves the interrupt position of the lift cam sensor[3], then remove the ring[4], the lift gear[2] and the lift cam[5]. Disconnect the connector[6], remove the two screws[7], and then remove the lift cam sensor[3]. Remove the two torsion springs[8], pull out the carriage rail[9] from the right side of the printer, and then remove the carriage.



F-4-72

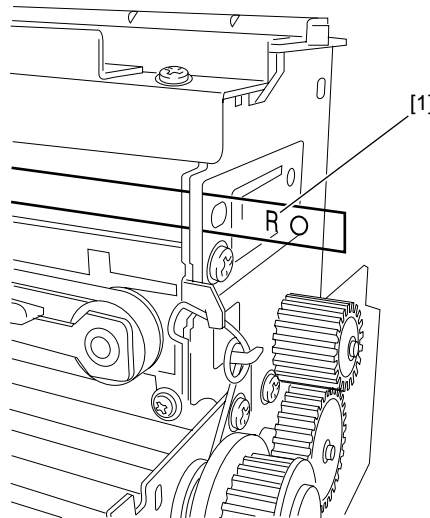
b) Points to Note on disassembly and Reassembly of Carriage Unit

1) Align the mark on the gear[3] with the mark on the bushing[4]. Align the mark on the lift gear[1] with the mark on the gear[2] to remove the ring[5].



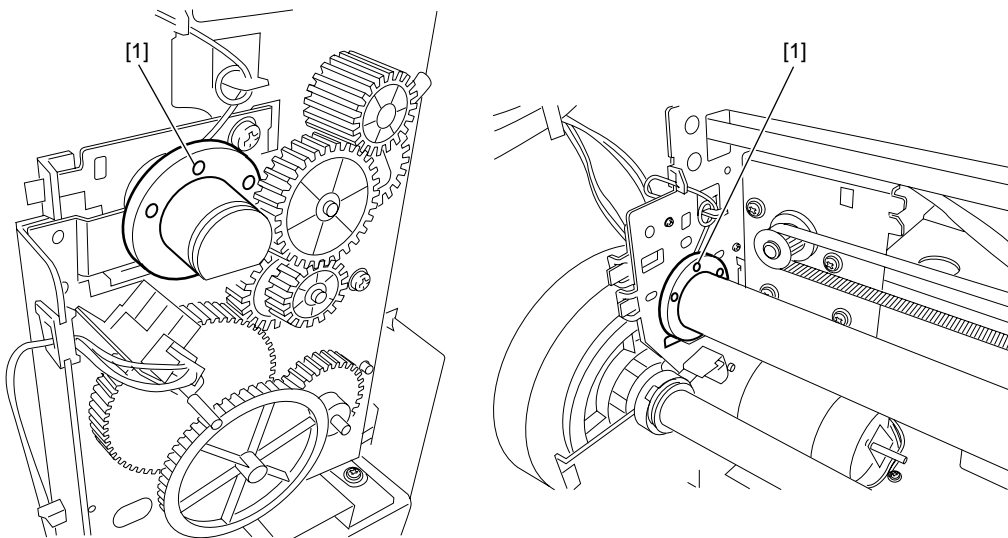
F-4-73

2) Install the linear scale with its R-mark [1] located on the right side of the unit.



F-4-74

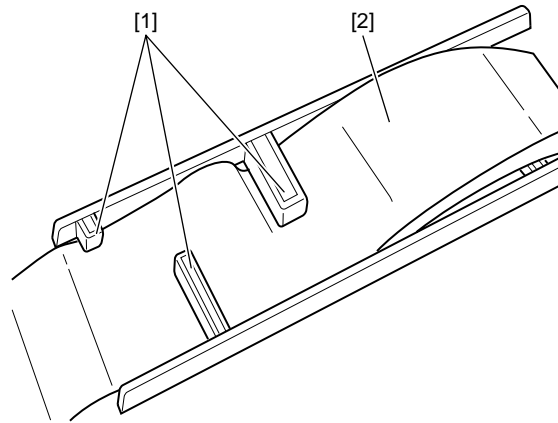
3) Install the left right lift cam [1] so its circular dent comes in the direction as shown (right side of the unit).



F-4-75

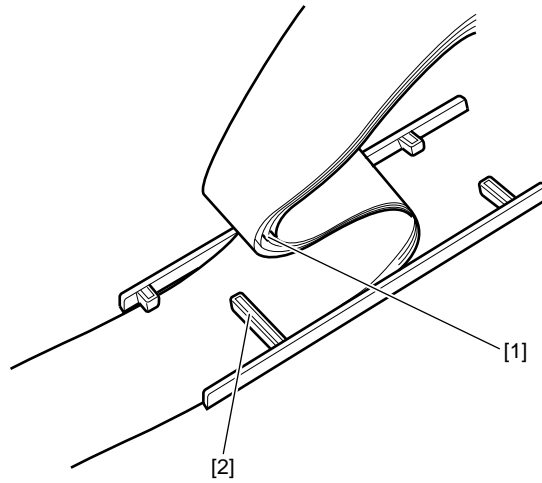
c) Note on attaching the flexible cable

1) Insert the flexible cable[2] through the three claws[1] in the flexible cable retainer.



F-4-76

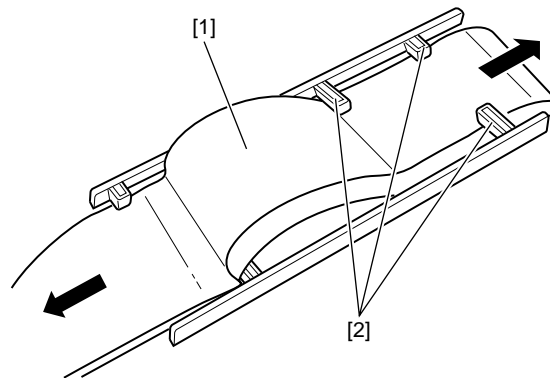
2) Lightly fold the flexible cable in its marked area[1] and pass it through claws[2].



F-4-77

3) Insert folded flexible cable [1] through the three claws [2].

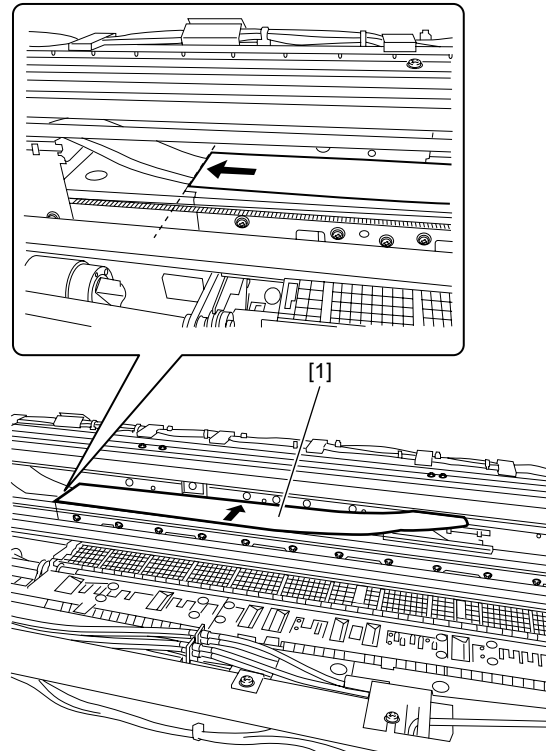
4) Pull the flexible cable [1] lightly from both sides to remove slacks in it.



F-4-78

5) Having installed the flexible cable retainer, align and flatten the flexible cables.

6) Attach the flexible guide sheet [1] over the flexible cable while matching its left end with the edge of the lower plate and bumping its rear side against the side plate in addition.



F-4-79

d) Action following the replacement of the carriage unit/multi sensor

Since the multi sensor has individual electrical specificity, the following are recalibrated at the factory, namely, the optical axis of the sensor, the sensor gain for measuring the printhead height and sensor calibration. Accordingly, carry out the following adjustments in the service mode whenever replacing the carriage unit or multi sensor.

* The multi sensor reference plate(QL2-2423-000:PLATE, REFLECTION, MULTI-SENSOR) must be replaced at the same time whenever the carriage or the multi sensor is being replaced.

- Service mode : SERVICE MODE > ADJUST > GAP CALIB.

- Service mode : SERVICE MODE > ADJUST > PRINT PATTERN > OPTICAL AXIS

Media type : Photo glossy paper

Media size : Media having a width equal too larger than that of A2-size paper

- After the carriage unit or carriage motor or carriage belt or linear encoder sensor have been removed or replaced, execute the following service mode.

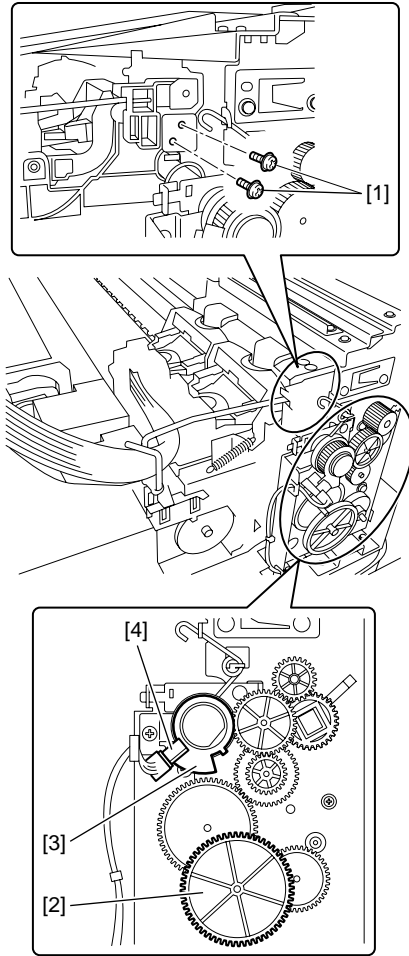
Service mode: SERVICE MODE > ADJUST > CR MOTOR COG

e) Adjusting the wire roller

To prevent the wire roller mounted on the carriage from contacting the duct and others during carriage operation, perform the following adjustment whenever you have removed or replaced the carriage unit. This adjustment is not required when you have replaced only the multi sensor.

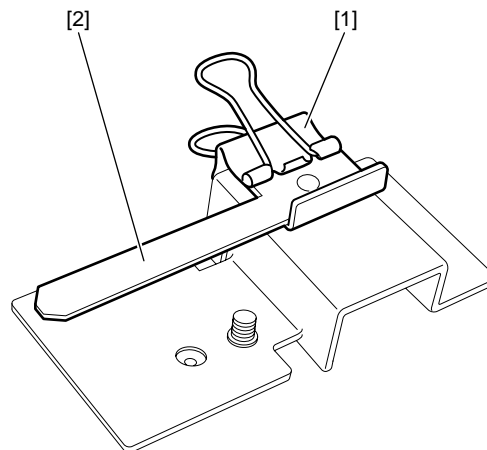
- Make adjustments with the carriage lock released.
- Make adjustments with the tube disconnected from the tube guide.

- 1) Remove the ink tube from the wire guide.
- 2) Loosen the two screws [1].
- 3) Turn the gear [2] until the lift cam flag [3] reaches the position shown below.
 - Bottom position where the sensor [4] light is blocked by the flag (lowest position to which the carriage unit descends)



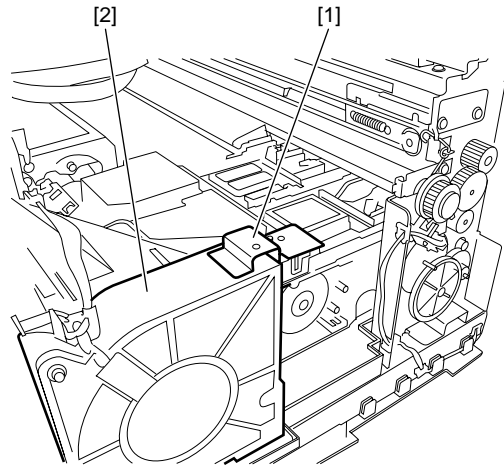
F-4-80

- 4) Remove the clip [1] and roller retainer [2] from the carriage wire tool.



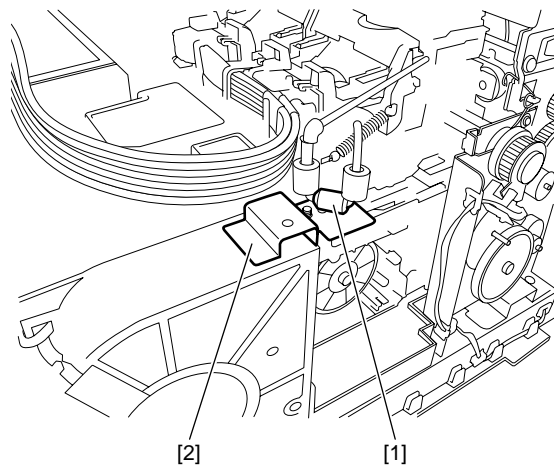
F-4-81

5) Install the carriage wire tool [1] in position with its leaf spring being attached to the top of mist fan [2].



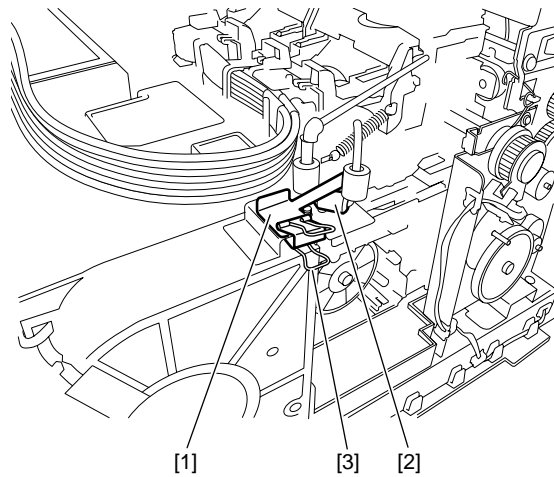
F-4-82

6) Moving the carriage, adjust the height of the wire guide to bring its roller [1] into contact with the top of carriage wire tool [2].



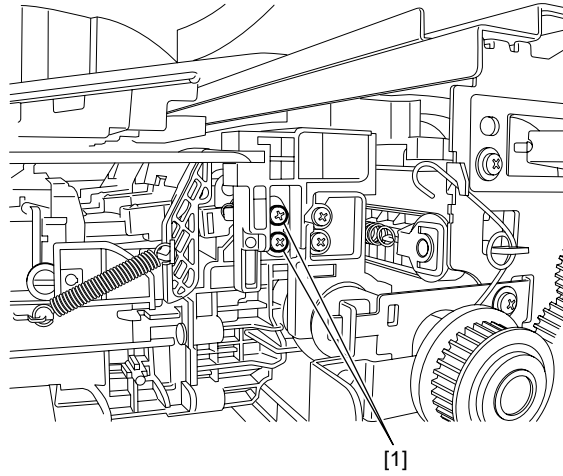
F-4-83

7) Secure the roller retainer [1] with the clip [3] in contact with the top of roller [2].



F-4-84

8) Retighten the two screws [1] loosened in Step 2) to secure the wire guide.



F-4-85

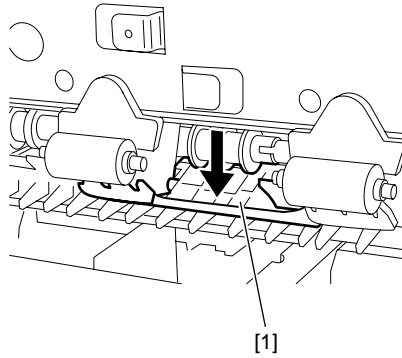
9) Pass the ink tubes through the wire guides.

4.3.10 Feeder Unit

iPF6100 / iPF6200 / iPF6000S

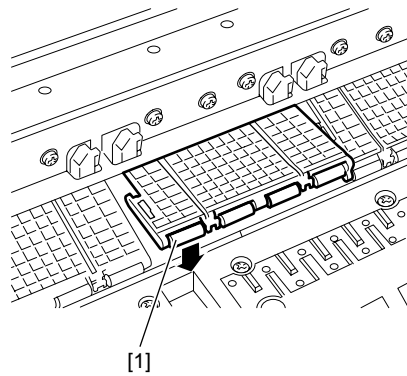
a) Removing the pinch roller

- 1) Remove the rear cover.
- 2) When removing the pinch roller, press down the pinch roller unit[1] in the direction of the arrow.



F-4-86

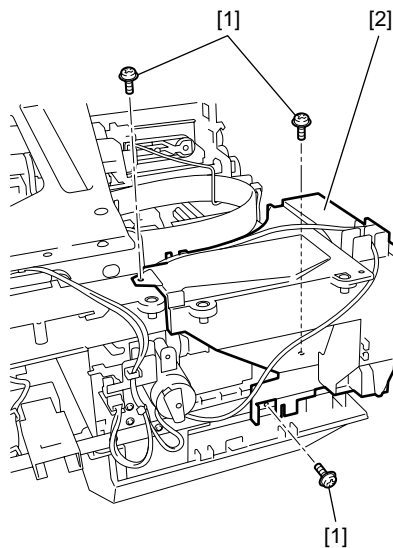
- 3) Remove the pinch roller[1].



F-4-87

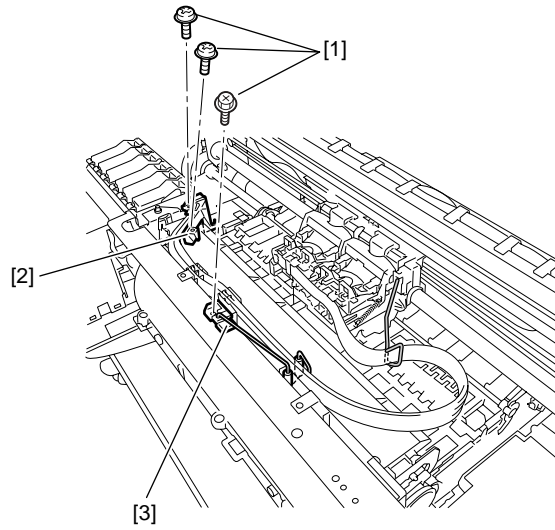
b) Removing the spur unit

- 1) When removing the spur unit, first open the top cover, and then remove the roll feed unit, left and right circle covers, tank cover, right upper cover, operation panel, lower rear cover, right cover, right front cover, upper front cover, lower front cover, cover guide, upper rear cover, and left and right cover mounting plates. Refer to DISASSEMBLY/REASSEMBLY > Points to Note on Disassembly and Reassembly > External Covers.
- 2) Remove the three screws[1], and then remove the mist fan[2].



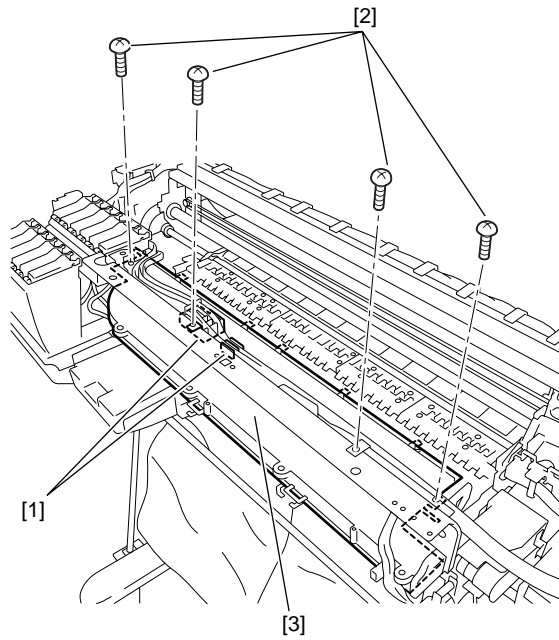
F-4-88

3) Remove the three screws[1], and then remove the tube guide[2] and the wire guide[3].



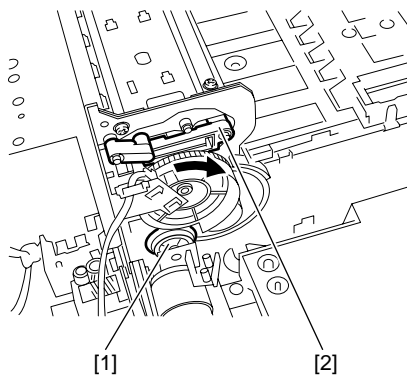
F-4-89

4) Remove the front duct[3] by removing the four screws[2] and freeing ink tube from the guide[1].



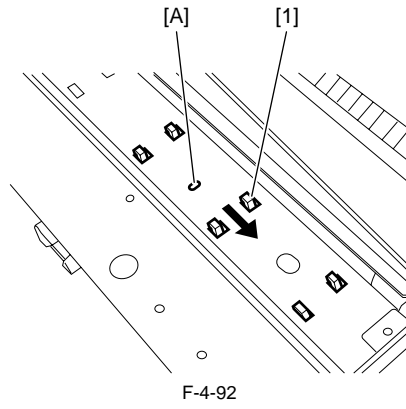
F-4-90

5) Turn the pulley[1] in the direction of the arrow so that the spur unit[2] is at the top position.




F-4-91

6) While pressing down the protrusion[A], slide the spur unit[1] in the direction of the arrow to remove it.



c) Handling the Feed Roller

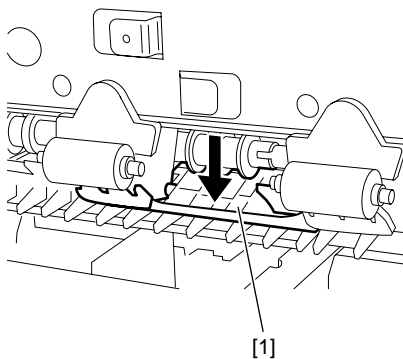
-  The feed roller is an important mechanical component of the printer. Follow the precaution below when handling it.
- * Do not touch the feed roller surface(coated surface).
 - * Do not scratch or dent the feed roller.
-

4.3.11 Feeder Unit

iPF6300 / iPF6350 / iPF6300S

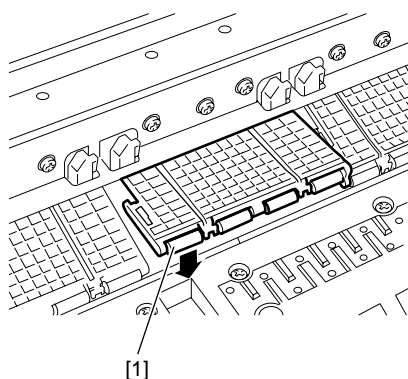
a) Removing the pinch roller

- 1) Remove the rear cover.
- 2) When removing the pinch roller, press down the pinch roller unit[1] in the direction of the arrow.



F-4-93

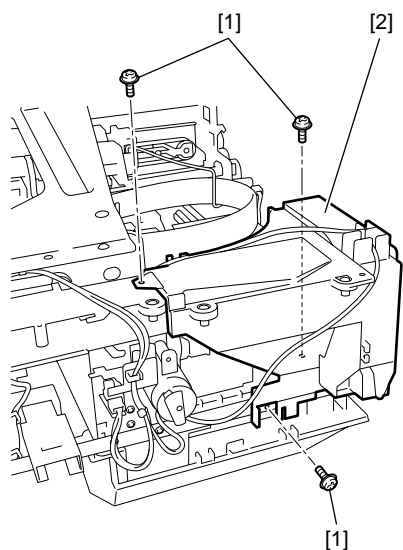
- 3) Remove the pinch roller[1].



F-4-94

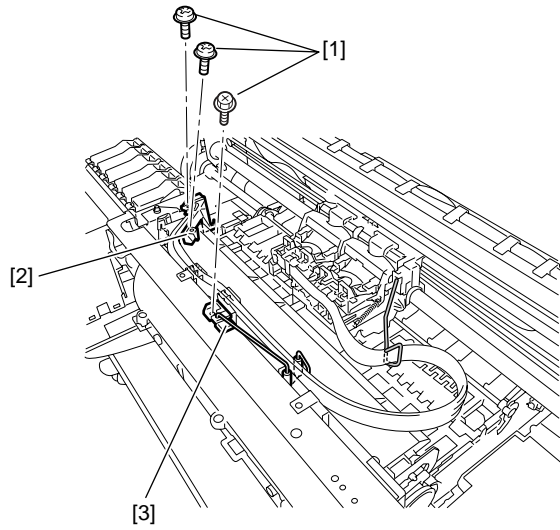
b) Removing the spur unit

- 1) When removing the spur unit, first open the top cover, and then remove the roll feed unit, left and right circle covers, tank cover, right upper cover, operation panel, lower rear cover, right cover, right front cover, upper front cover, lower front cover, cover guide, upper rear cover, and left and right cover mounting plates. Refer to DISASSEMBLY/REASSEMBLY > Points to Note on Disassembly and Reassembly > External Covers.
- 2) Remove the three screws[1], and then remove the mist fan[2].



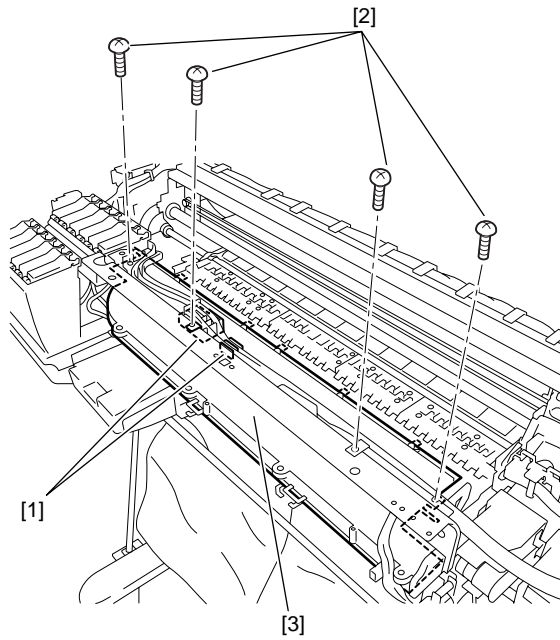
F-4-95

3) Remove the three screws[1], and then remove the tube guide[2] and the wire guide[3].



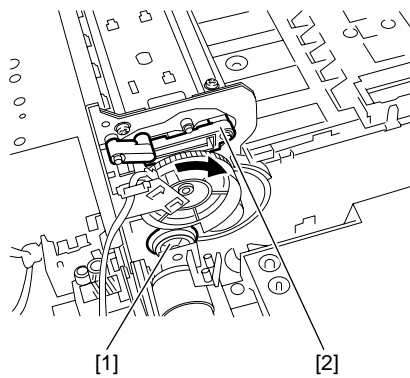
F-4-96

4) Remove the front duct[3] by removing the four screws[2] and freeing ink tube from the guide[1].



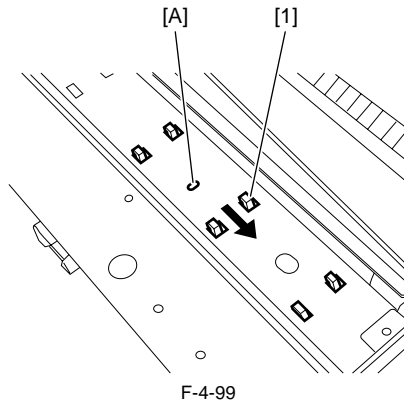
F-4-97

5) Turn the pulley[1] in the direction of the arrow so that the spur unit[2] is at the top position.



F-4-98

6) While pressing down the protrusion[A], slide the spur unit[1] in the direction of the arrow to remove it.



c) Handling the Feed Roller

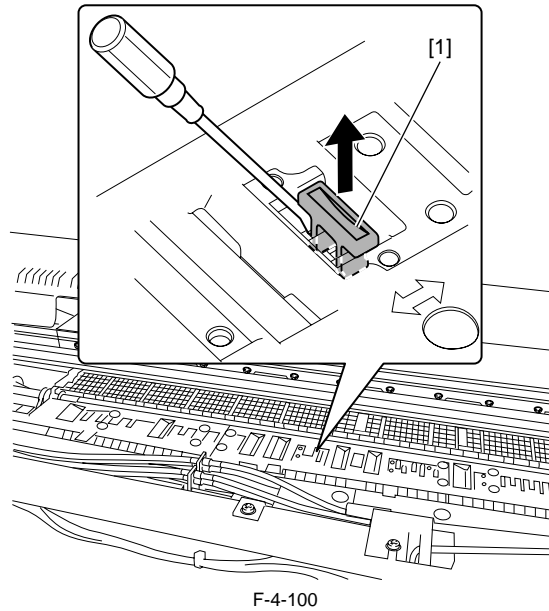


The feed roller is an important mechanical component of the printer. Follow the precaution below when handling it.

- Do not touch the feed roller surface (coated surface).
- Do not scratch or dent the feed roller.

d) Removing the platen shutter

1) Remove the hook by using the flat-head screwdriver to remove the platen shutter [1].



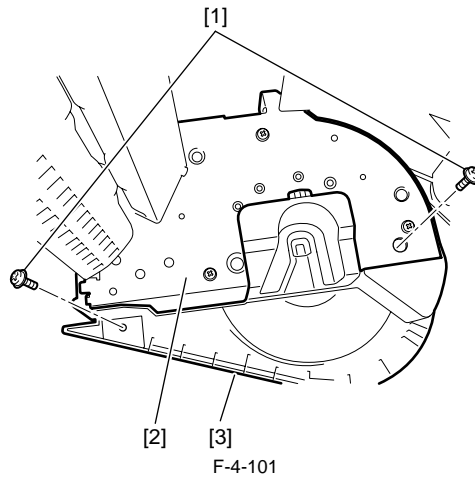
The platen is an important mechanical component of the printer. Take care not to damage or remove the platen.

4.3.12 Roll Feed Unit

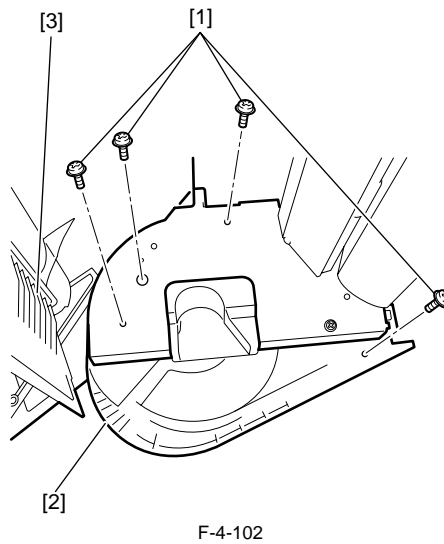
iPF6100 / iPF6200 / iPF6000S / iPF6300 / iPF6350 / iPF6300S

a) Removing the roll motor

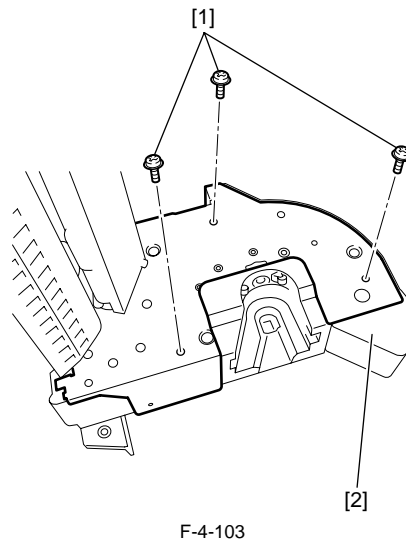
1) When removing the roll motor, remove the roll feed unit[2] from the main body, and then remove the right cover[3] by removing the two screws[1].



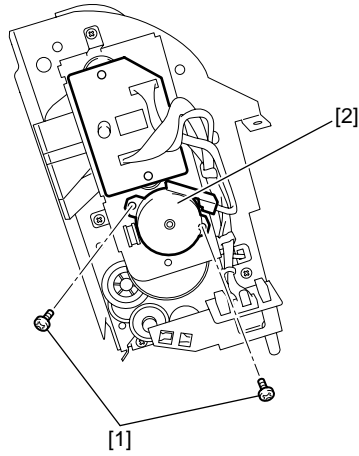
2) Remove the four screws[1], and then remove the left cover[2] and paper tray[3].



3) Remove the three screws[1], and then remove the right inner cover[2].



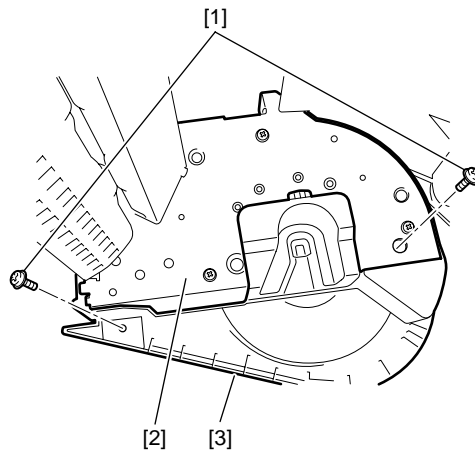
4) Remove the two screws[1], and then remove the roll motor[2].



F-4-104

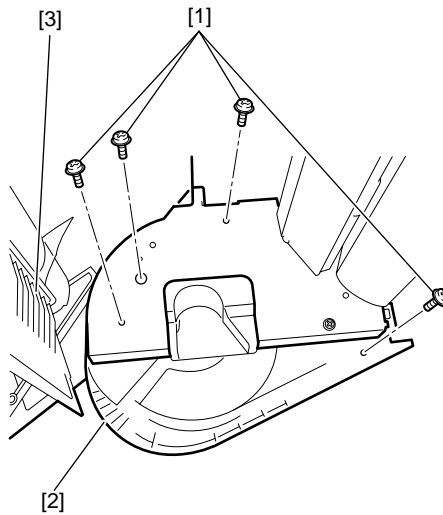
b) Removing the roll feed unit

1) When removing the roll motor, remove the roll feed unit[2] from the main body, and then remove the right cover[3] by removing the two screws[1].



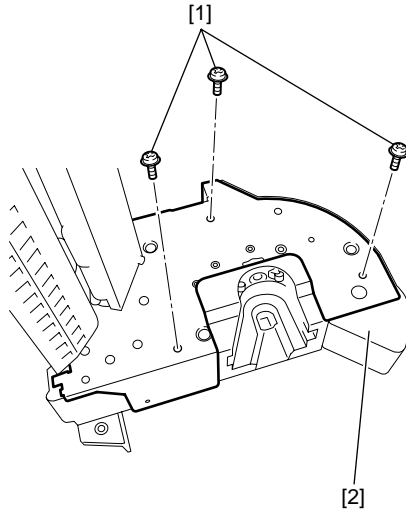
F-4-105

2) Remove the four screws[1], and then remove the left cover[2] and paper tray[3].



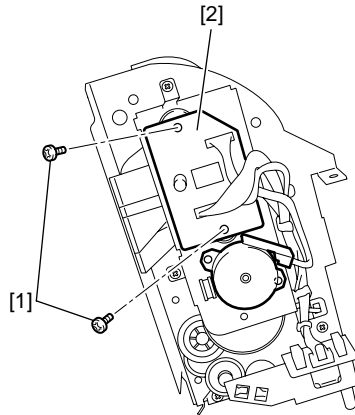
F-4-106

3) Remove the three screws[1], and then remove the right inner cover[2].



F-4-107

4) Remove the two screws[1], and then remove the roll feed unit PCB[2].



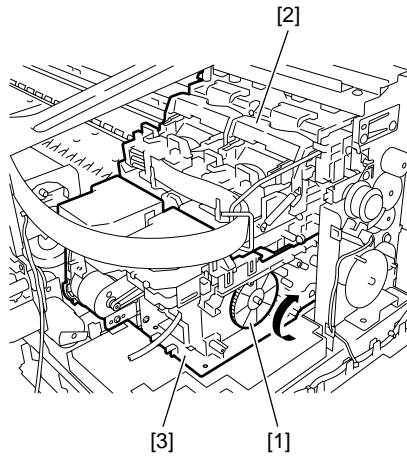
F-4-108

4.3.13 Purge Unit

iPF6100 / iPF6200 / iPF6000S / iPF6300 / iPF6350 / iPF6300S

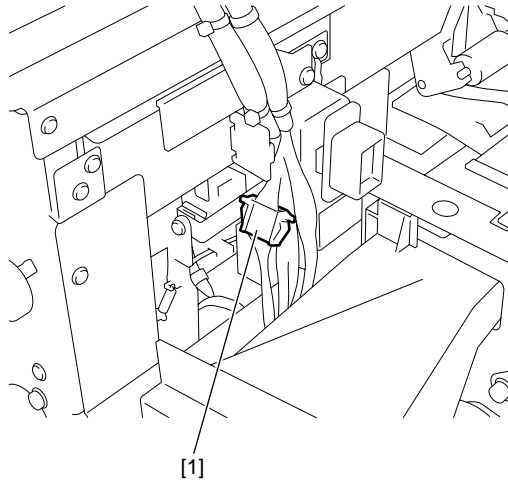
a) Removing the purge unit

1) Turn the gear[1] of the purge unit[3] in the direction of the arrow to unlock and uncap the carriage. Next, move the carriage[2] onto the platen.



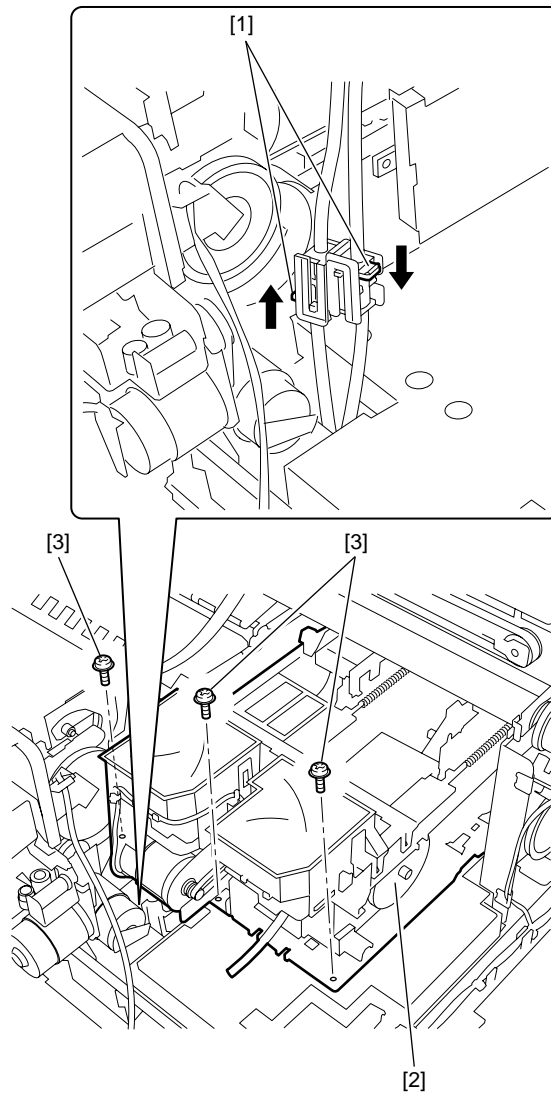
F-4-109

2) Remove the connector[1] from the rear of the unit to free the harness from the harness guide.



F-4-110

3) Remove the three screws[3] and press two claws[1] in the joint of the waste ink tube in the arrow direction to remove the purge unit[2].

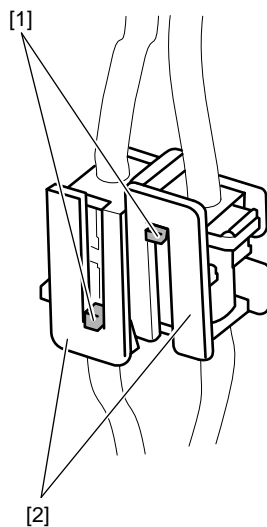


F-4-111

b) Precaution for mounting the purge unit

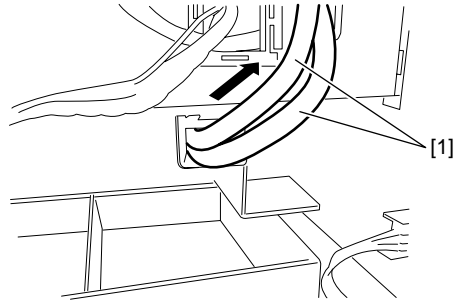
1) When attaching the waste ink tube, make sure that the waste ink tube has been firmly attached with the two projections[1] of the joint engaging to the each hook[2].

If the waste ink tube has not been attached firmly, it causes the ink leakage.



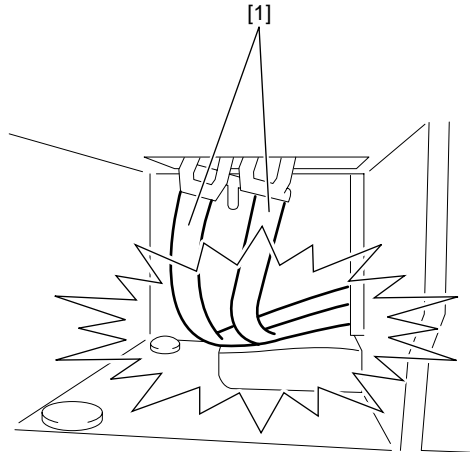
F-4-112

2) When mounting the purge unit, pull out the waste ink tube[1] from the back of the printer to the position where the marking is visible. If the waste ink tube is not pulled out to the marking position, it may bend and cause ink leakage.



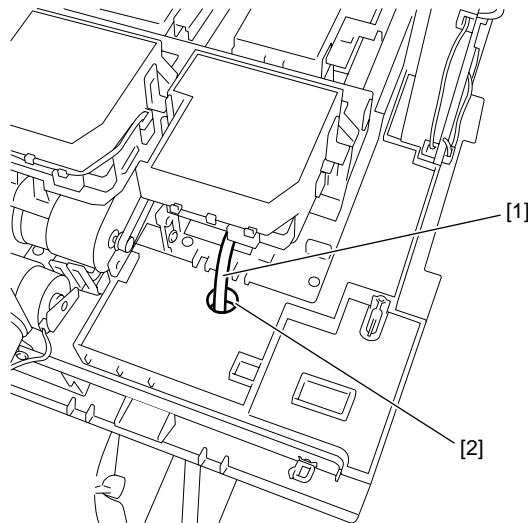
F-4-113

3) Check the waste ink tube[1] from the front of the unit to make sure that it is not broken or twisted.



F-4-114

4) Check that waste ink tube[1] is inserted in the hole[2] in the absorber.



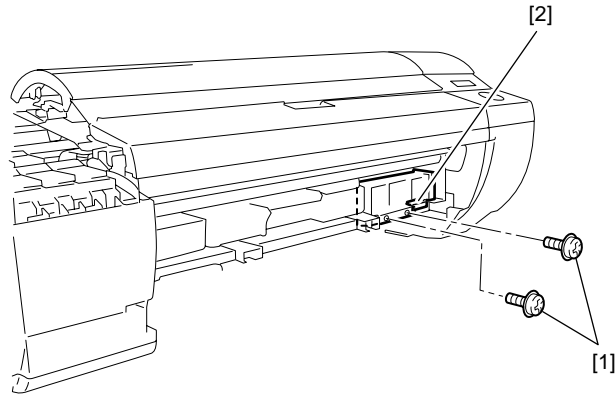
F-4-115

4.3.14 Waste Ink Collection Unit

iPF6100 / iPF6200 / iPF6000S / iPF6300 / iPF6350 / iPF6300S

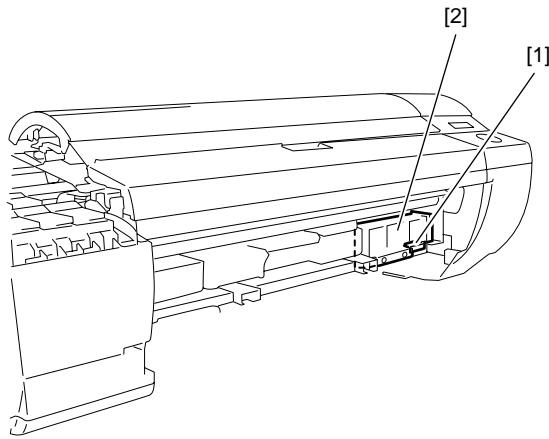
a) Removing the waste ink box

- 1) When removing the waste ink box, first remove the output guide.
- 2) Remove the two screws[1] and connector cover[2].



F-4-116

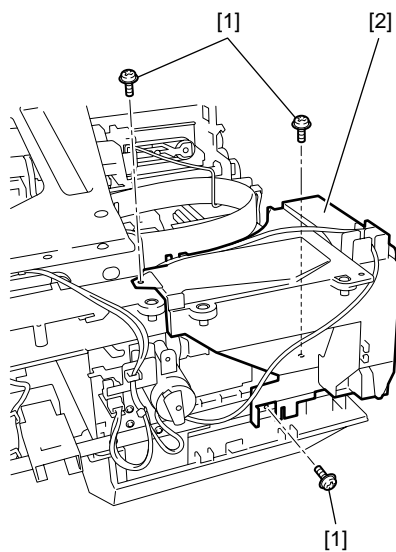
- 3) Disconnect the connector[1], and then remove the waste ink box[2].



F-4-117

b) Removing the mist fan

- 1) When removing the mist fan, first open the top cover, and then remove the output guide, right circle cover, right upper cover, operation panel, mist filter, filter cover, filter, right cover, and right front cover. Refer to DISASSEMBLY/REASSEMBLY > Points to Note on Disassembly and Reassembly > External Cover.
- 2) Remove the three screws[1] and disconnect the connector, and then remove the mist fan[2].

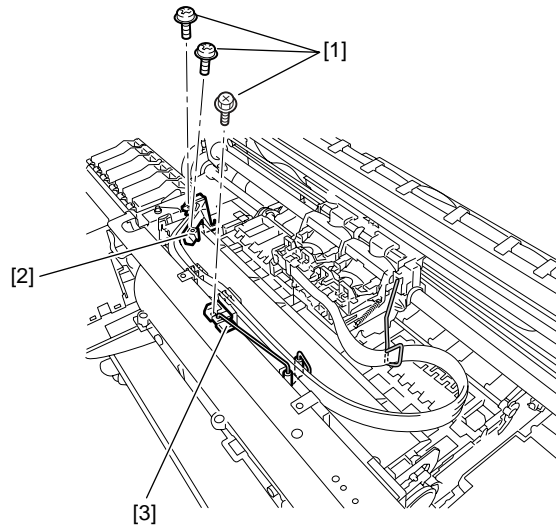


F-4-118

c) Removing the platen duct

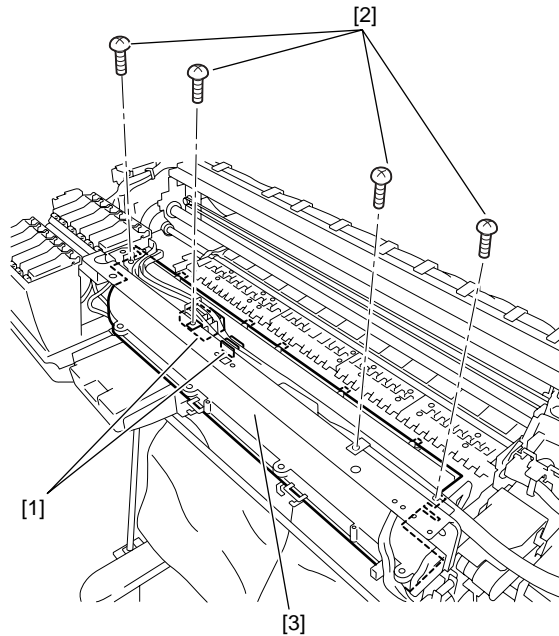
1) When removing the platen duct, first open the top cover, and then remove the output guide, maintenance cartridge, waste ink box, left and right circle cover, tank cover, right upper cover, operation panel, mist filter, filter cover, filter, right cover, right front cover, and mist fan. Refer to DISASSEMBLY/REASSEMBLY > Points to Note on Disassembly and Reassembly > External Cover.

2) Remove the three screws[1], and then remove the tube guide[2] and wire guide[3].



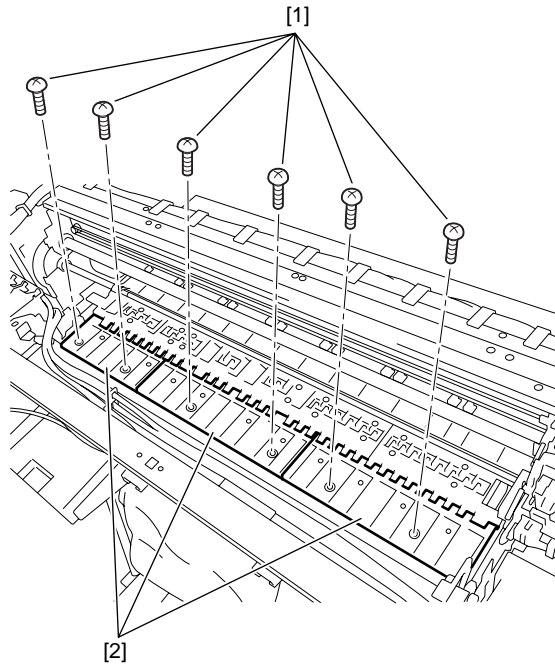
F-4-119

3) Remove the front duct[3] by removing the four screws[2] and freeing ink tube from guide[1].



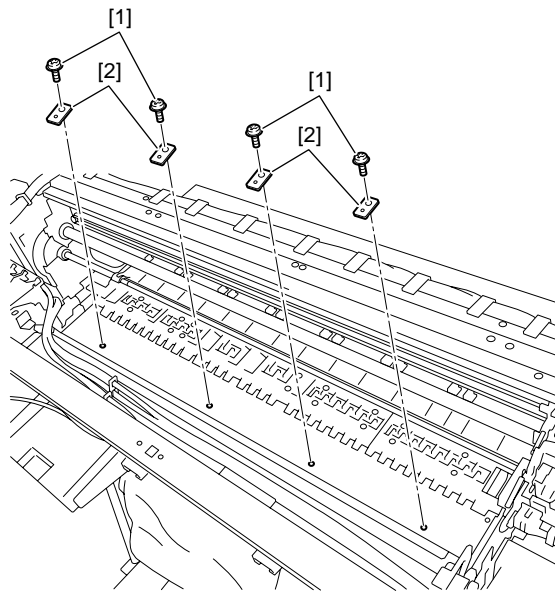
F-4-120

4) Remove the six screws[1] and, while lifting the spur unit, remove three platens (front)[2].



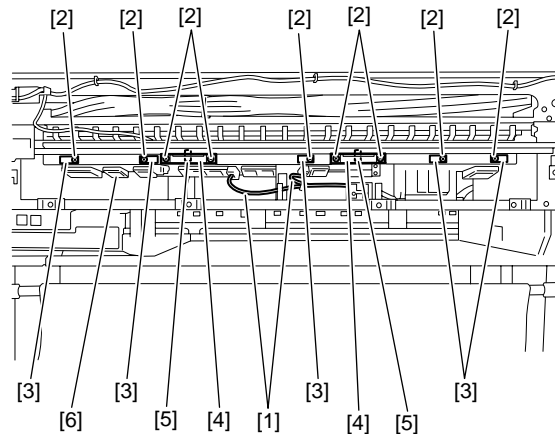
F-4-121

5) Remove the four screws[1] and four bushings[2].



F-4-122

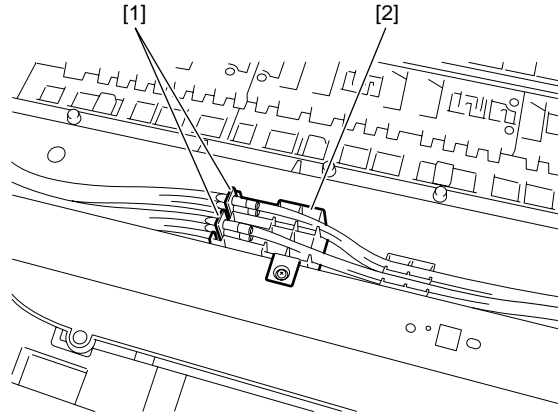
6) Disconnect the two waste ink tubes[3] and remove the nine screws[2] and five bushings[3] and two bushing covers[4] and two springs[5], and then remove the platen duct[6].



F-4-123

d) Note on attaching ink tubes to the front duct

In attaching ink tubes to the front guides, insert joint [1] into guide [2] first and then attach them to the guides, making sure that the tubes are not broken or twisted. The marks appearing on the tubes were used for factory assembly purposes and are not used for servicing.



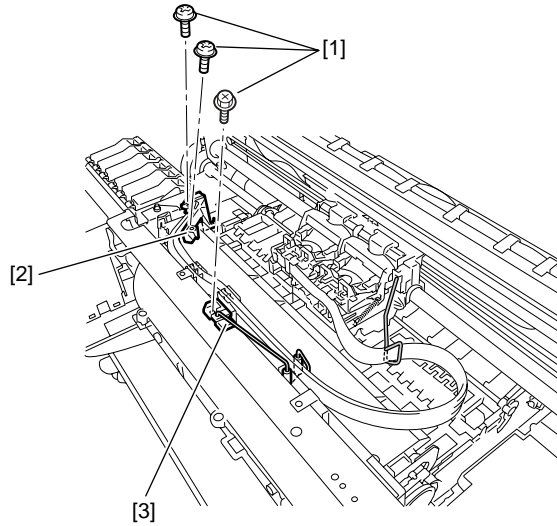
F-4-124

4.3.15 Ink Tank Unit

iPF6100 / iPF6200 / iPF6000S

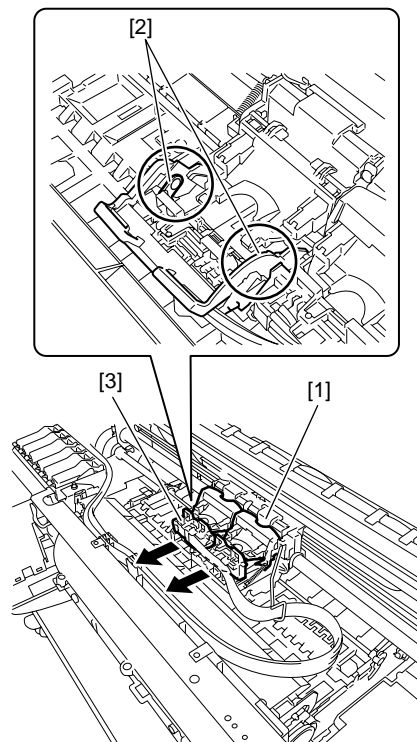
a) Removing the ink tank unit

- 1) Drain the ink. Refer to DISASSEMBLY/REASSEMBLY > Points to Note on Disassembly and Reassembly > Draining the ink.
- 2) Remove the output guide, left and right circle covers, tank cover, left and right covers, left and right front covers, right upper cover, operation panel, mist filter, filter cover, filter, lower rear cover, upper front cover, and lower front cover.
- Refer to DISASSEMBLY/REASSEMBLY > Points to Note on Disassembly and Reassembly > External Cover.
- 3) Move the carriage unit to the center. Refer to "Removing the Purge Unit".
- 4) Remove the three screws[1], and then remove the tube guide[2] and wire guide[3].



F-4-125

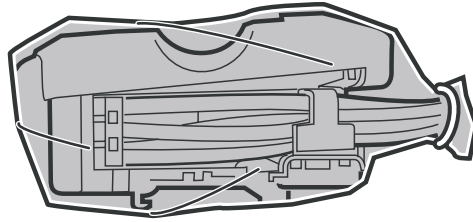
- 5) Remove the four link levers[2] from the carriage unit[1], and then remove the joint base[3].



F-4-126

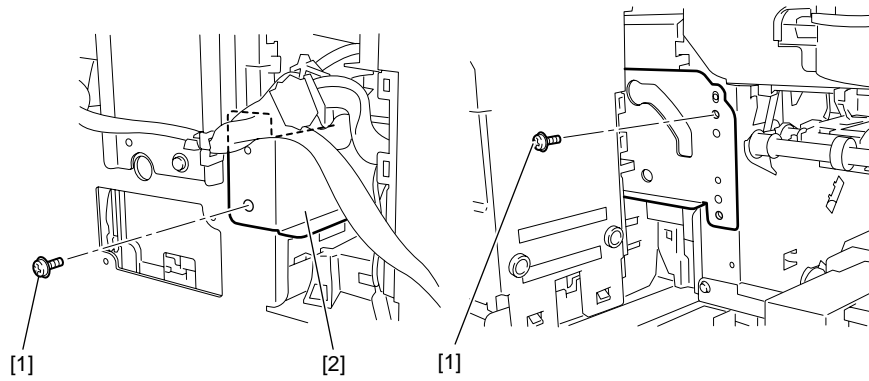


Put the removed joint base in a plastic bag so that ink does not splash.



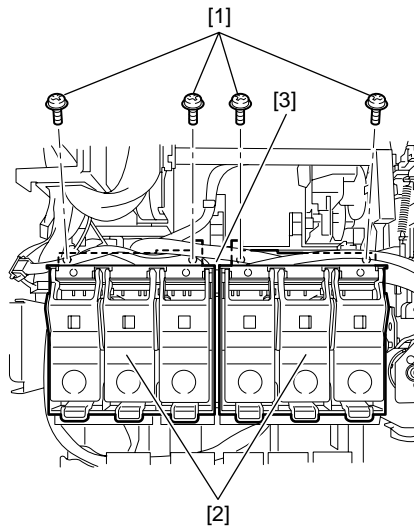
F-4-127

- 6) Remove the cutter unit and cutter mounting plate.
 Refer to DISASSEMBLY/REASSEMBLY > Point to Note on Disassembly and Reassembly > Cutter
 7) Remove the two screws[1], and then remove the support plate[2].



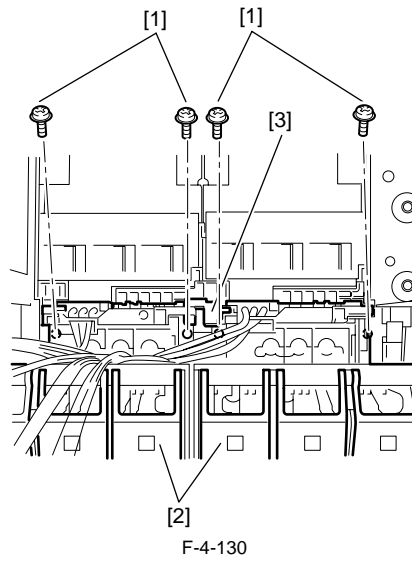
F-4-128

- 8) Remove the four screws[1] and joint[3], and then remove the two ink tank unit R[2].



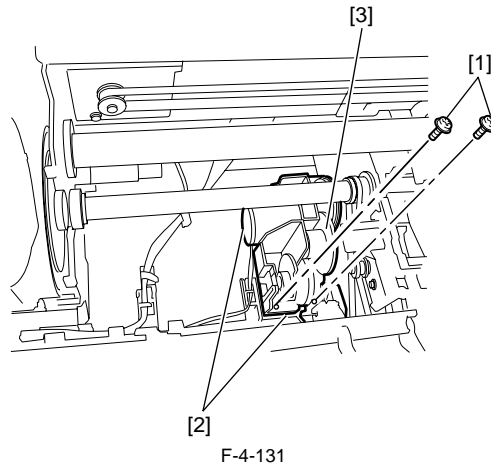
F-4-129

9) Remove the four screws[1] and joint[3], and then remove the two ink tank unit F[2].



b) Removing the valve motor unit

- 1) When removing the valve motor unit, remove the ink tank cover.
- 2) Remove the two screws[1], disconnect the the two connectors[2], and then remove the valve motor unit[3].

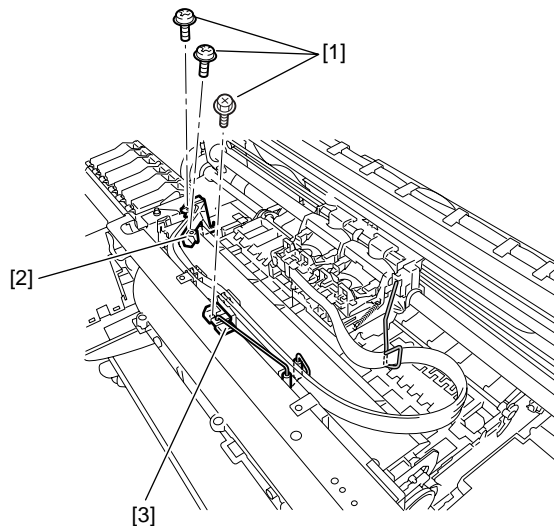


4.3.16 Ink Tank Unit

iPF6300 / iPF6350 / iPF6300S

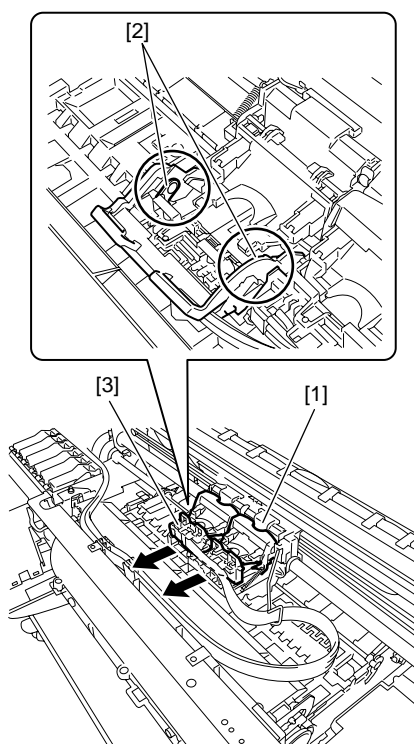
a) Removing the ink tank unit

- 1) Drain the ink. Refer to DISASSEMBLY/REASSEMBLY > Points to Note on Disassembly and Reassembly > Draining the ink.
- 2) Remove the output guide, left and right circle covers, tank cover, left and right covers, left and right front covers, right upper cover, operation panel, mist filter, filter cover, filter, lower rear cover, upper front cover, and lower front cover.
- 3) Move the carriage unit to the center. Refer to "Removing the Purge Unit".
- 4) Remove the three screws[1], and then remove the tube guide[2] and wire guide[3].



F-4-132

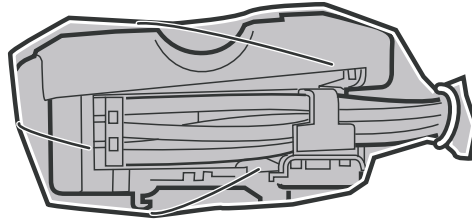
- 5) Remove the four link levers[2] from the carriage unit[1], and then remove the joint base[3].



F-4-133

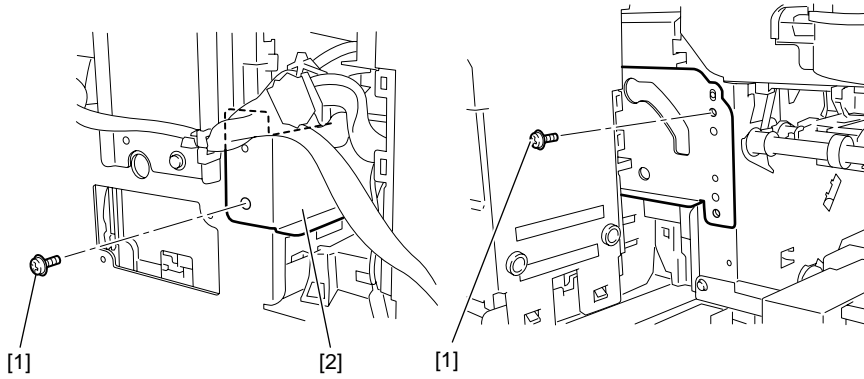


Put the removed joint base in a plastic bag so that ink does not splash.



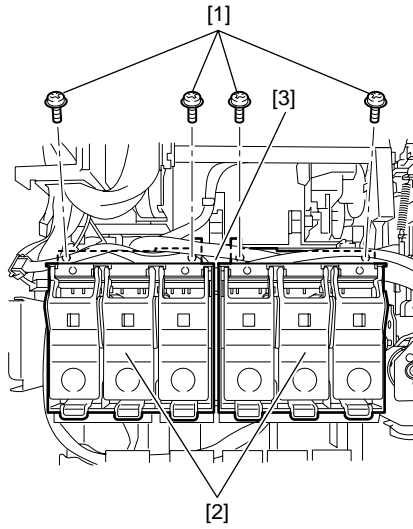
F-4-134

- 6) Remove the cutter unit and cutter lifter unit.
Refer to DISASSEMBLY/REASSEMBLY > Point to Note on Disassembly and Reassembly > Cutter
- 7) Remove the two screws[1], and then remove the support plate[2].



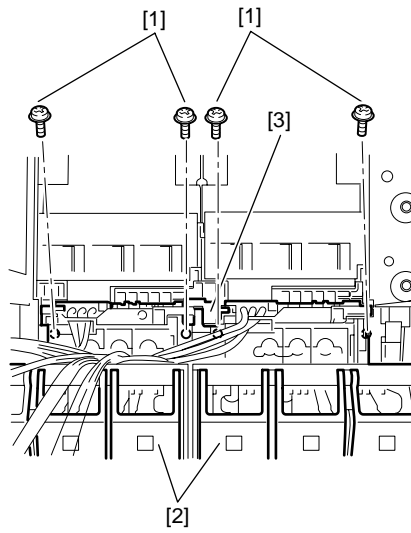
F-4-135

- 8) Remove the four screws[1] and joint[3], and then remove the two ink tank unit R[2].



F-4-136

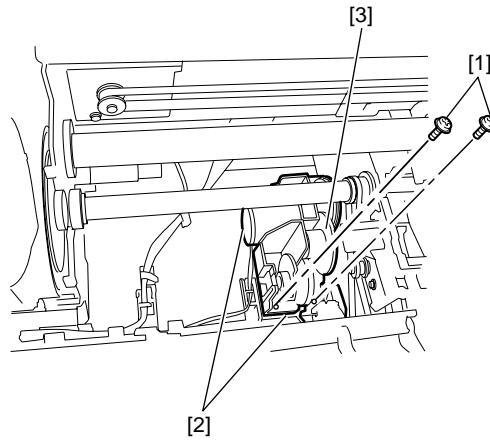
9) Remove the four screws[1] and joint[3], and then remove the two ink tank unit F[2].



F-4-137

b) Removing the valve motor unit

- 1) When removing the valve motor unit, remove the ink tank cover.
- 2) Remove the two screws[1], disconnect the the two connectors[2], and then remove the valve motor unit[3].



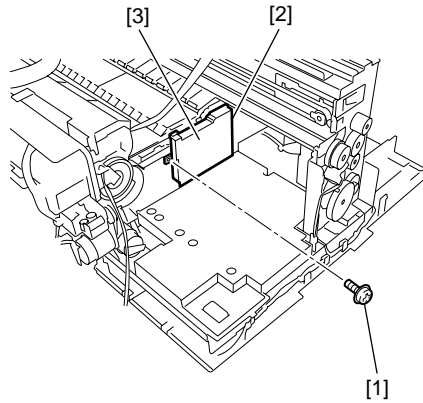
F-4-138

4.3.17 Head Management Sensor

iPF6100 / iPF6200 / iPF6000S / iPF6300 / iPF6350 / iPF6300S

a) Removing the head management sensor

1) Remove the screw[1], disconnect the connector[2], and then remove the head management sensor[3].



F-4-139

b) Procedure after replacing the head management sensor

Since the distance between the head management sensor and the carriage unit varies among printers, the optical axis is factory-adjusted to adjust the non-discharging detection position. When you have replaced the head management sensor or performed assembly/reassembly of surrounding parts that can change the distance between the head management sensor and the carriage unit, readjustment is required. Perform the readjustment in the service mode.

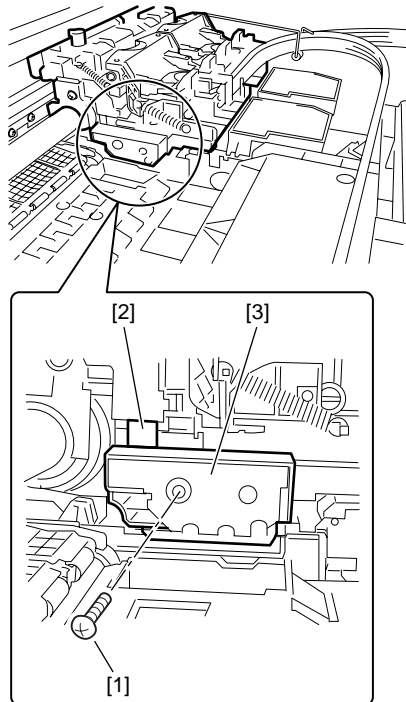
Service mode : SERVICE MODE > ADJUST > NOZZLE CHK POS.

4.3.18 Multi Sensor

iPF6100 / iPF6200 / iPF6000S

a) Removing the multi sensor

1) Remove the screw[1], disconnect the flexible cable[2], and then remove the multi sensor[3].



F-4-140

Since the multi sensor has individual electrical specificity, the following are recalibrated at the factory, namely, the optical axis of the sensor, the sensor gain for measuring the printhead height and sensor calibration. Accordingly, carry out the following adjustments in the service mode whenever replacing the carriage unit or multi sensor.

* The multi sensor reference plate(QL2-1561-000:PLATE, REFLECTION, MULTI-SENSOR) must be replaced at the same time whenever the carriage or the multi sensor is being replaced.

* When replacing the carriage unit, refer to Adjustment and Setup > Procedure after Removing or Replacing the Carriage Unit.

- Service mode : SERVICE MODE > ADJUST > GAP CALIB.

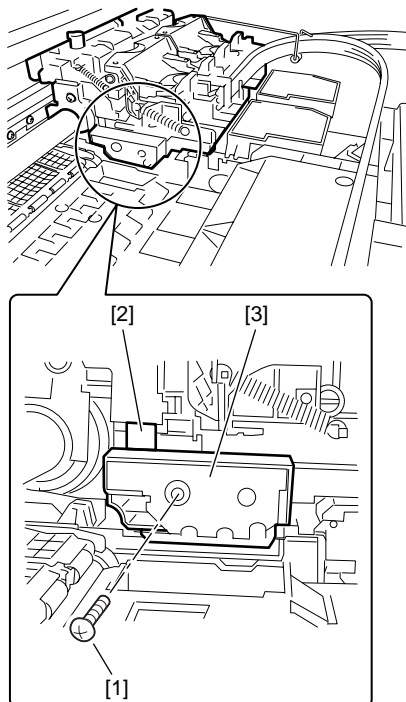
- Service mode : SERVICE MODE > ADJUST > PRINT PATTERN > OPTICAL AXIS
Media type : Photo glossy paper
Media size : Media having a width equal too larger than that of A2-size paper

4.3.19 Multi Sensor

iPF6300 / iPF6350 / iPF6300S

a) Removing the multi sensor

1) Remove the screw[1], disconnect the flexible cable[2], and then remove the multi sensor[3].



F-4-141

b) Action following the replacement of the multi sensor

Since the multi sensor has individual electrical specificity, the following are recalibrated at the factory, namely, the optical axis of the sensor, the sensor gain for measuring the printhead height and sensor calibration. Accordingly, carry out the following adjustments in the service mode whenever replacing the carriage unit or multi sensor.

* The multi sensor reference plate(QL2-2423-000:PLATE, REFLECTION, MULTI-SENSOR) must be replaced at the same time whenever the carriage or the multi sensor is being replaced.

* When replacing the carriage unit, refer to Adjustment and Setup > Procedure after Removing or Replacing the Carriage Unit.

- Service mode : SERVICE MODE > ADJUST > GAP CALIB.

- Service mode : SERVICE MODE > ADJUST > PRINT PATTERN > OPTICAL AXIS

Media type : Photo glossy paper

Media size : Media having a width equal too larger than that of A2-size paper

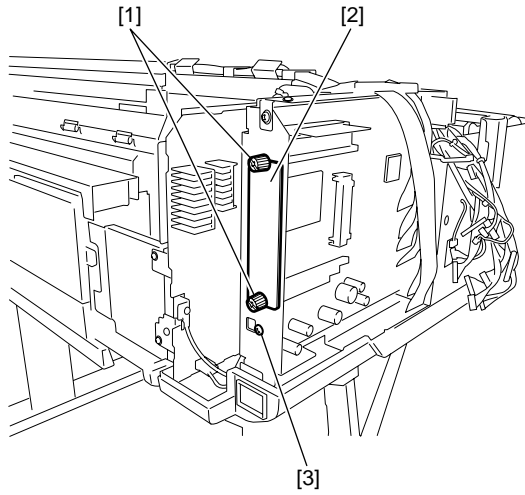
4.3.20 PCBs

iPF6100

Do not replace the main controller PCB and maintenance cartridge relay PCB(ROM board) at the same time. These PCBs store important data such as settings and carriage drive time. Before replacement of either PCB, the data stored in it is moved to the other PCB through internal communication so that it can be taken over to the new PCB automatically. This is the reason why the two PCBs should not be replaced at the same time. If you want to replace both PCBs at the same time, first carry out the procedure "Procedure for replacing the maintenance cartridge relay PCB(ROM board)" and then carry out the procedure "Procedure for replacing the main controller PCB". After replacing with the main controller PCB or maintenance cartridge relay PCB which are supplied as service parts, check that the firmware to the latest version.

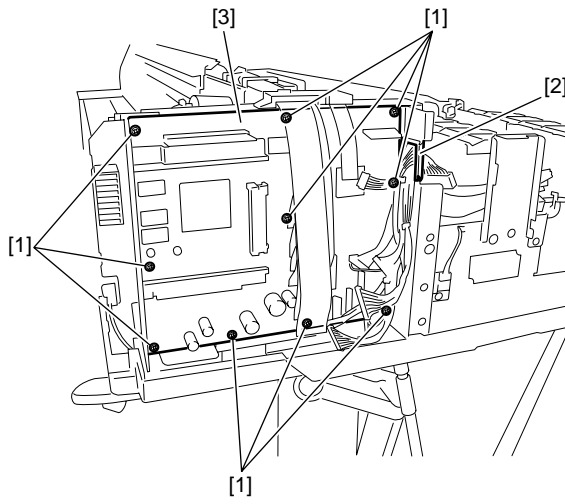
a) Removing the main controller PCB

- 1) To remove the main controller PCB, open the top cover and remove the roll feed unit, left circle cover, tank cover, left cover, lower rear cover, lower rear left cover and left rear cover.
Refer to DISASSEMBLY/REASSEMBLY > Points to note on Disassembly and Reassembly > External Covers.
- 2) Remove all connectors from the main controller PCB.
- 3) Remove two coin screws[1], interface cover[2] and screw[3] in this order.



F-4-142

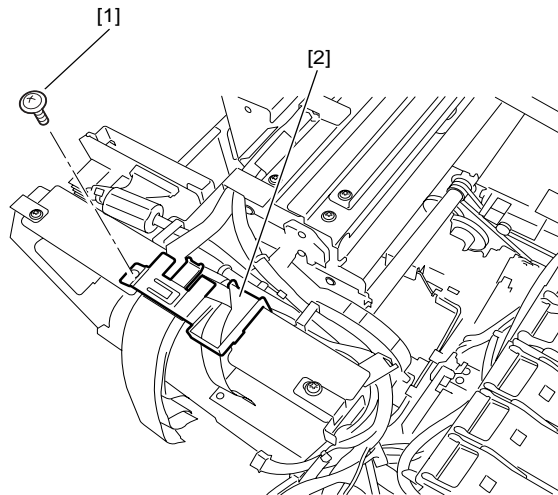
- 4) Remove the ten screws[4] and free the harness from harness guide[5] to remove the main controller PCB[1].



F-4-143

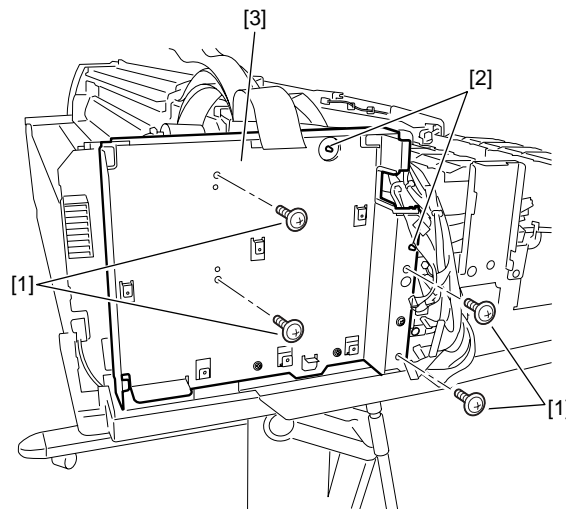
b) Removing the main controller mounting plate

- 1) Remove the main controller PCB.
- 2) Free the harness from the harness guide.
- 3) Remove the screw [1] and remove the flexible guide [2].



F-4-144

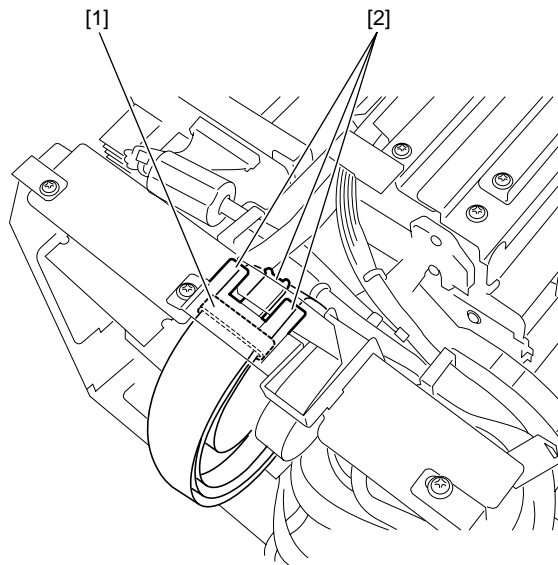
- 4) Remove the four screws [1] and two hooks [2] from the harness guide and remove the main controller mounting plate [3].



F-4-145

c) Note on installing the cable holder

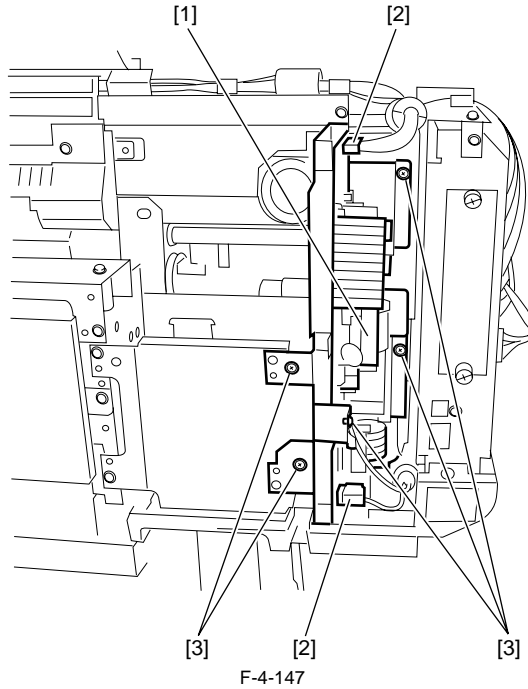
In installing the cable holder, secure ferrite core [1] to the flexible cable on the carriage with the cable holder before hooking the flexible cable from the operation panel at the three claws [2].



F-4-146

d) Removing the power supply PCB

- 1) To remove the power supply PCB, open the top cover and remove the roll feed unit, left circle cover, tank cover, left cover, lower rear cover, lower rear left cover and left rear cover.
Refer to DISASSEMBLY/REASSEMBLY > Points to note on Disassembly and Reassembly > External Covers.
- 2) Disconnect the two connectors[2] from the power supply PCB[1].
- 3) Remove the five screws[3] and remove the power supply PCB[1] together with the mounting plate.



e) Procedure for replacing the maintenance cartridge relay PCB(ROM board)

- 1) Turn off the printer and unplug the power cord.
- 2) Replace the maintenance cartridge relay PCB.
- 3) Plug the power cord to the outlet, and then turn on the printer with the PAPER SOURCE button and INFORMATION button pressed down. (The printer will start up in the PCB Replacement mode.)
- 4) Check that "Initializing" appears on the display, and then release the buttons. (When the printer enters the PCB Replacement mode, the message lamp goes on.)
- 5) Wait until "REPLACE MODE" appears on the display.
- 6) Select "MC BOARD", and then press the ok button.
- 7) Check that "TURN POWER OFF" appears on the display, and then turn off the printer.
- 8) Turn on the printer.
- 9) Check the firmware version. If the firmware is not the latest version, update.

f) Procedure for replacing the main controller PCB

- 1) Turn off the printer and unplug the power cord.
- 2) Replace the main controller PCB.
- 3) Plug the power cord to the outlet, and then turn on the printer with the PAPER SOURCE button and INFORMATION button pressed down. (The printer will start up in the PCB Replacement mode.)
- 4) Check that "Initializing" appears on the display, and then release the buttons. (When the printer enters the PCB Replacement mode, the message lamp goes on.)
- 5) Wait until "REPLACE MODE" appears on the display.
- 6) Select "MC BOARD", and then press the ok button.
- 7) Check that "TURN POWER OFF" appears on the display, and then turn off the printer.
- 8) Turn on the printer.
- 9) Check the firmware version. If the firmware is not the latest version, update.

4.3.21 PCBs

iPF6200 / iPF6000S

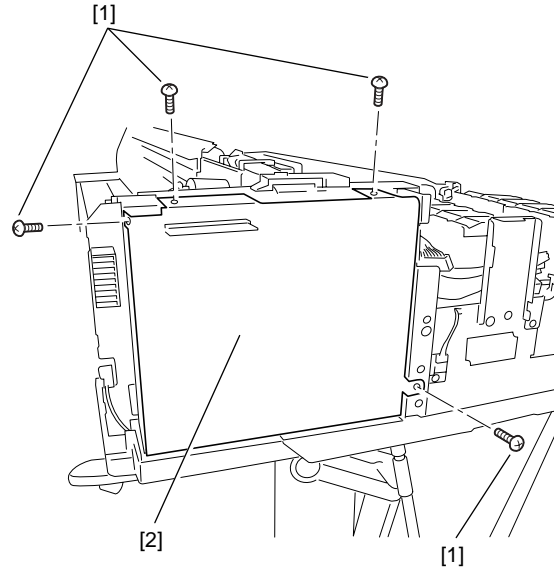
Do not replace the main controller PCB and maintenance cartridge relay PCB(ROM board) at the same time. These PCBs store important data such as settings and carriage drive time. Before replacement of either PCB, the data stored in it is moved to the other PCB through internal communication so that it can be taken over to the new PCB automatically. This is the reason why the two PCBs should not be replaced at the same time. If you want to replace both PCBs at the same time, first carry out the procedure "Procedure for replacing the maintenance cartridge relay PCB(ROM board)" and then carry out the procedure "Procedure for replacing the main controller PCB". After replacing with the main controller PCB or maintenance cartridge relay PCB which are supplied as service parts, check that the firmware to the latest version.

a) Removing the main controller PCB

1) To remove the main controller PCB, open the top cover and remove the roll feed unit, left circle cover, tank cover, left cover, lower rear cover, lower rear left cover and left rear cover.

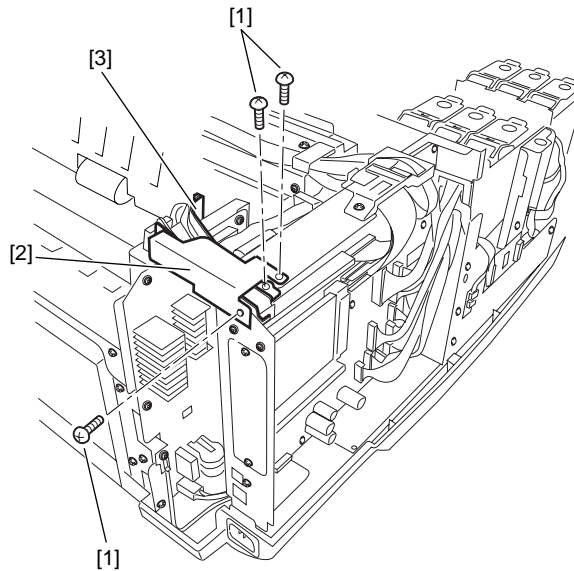
Refer to DISASSEMBLY/REASSEMBLY > Points to note on Disassembly and Reassembly > External Covers.

2) Remove the four screws[1] and remove the shield plate[2].



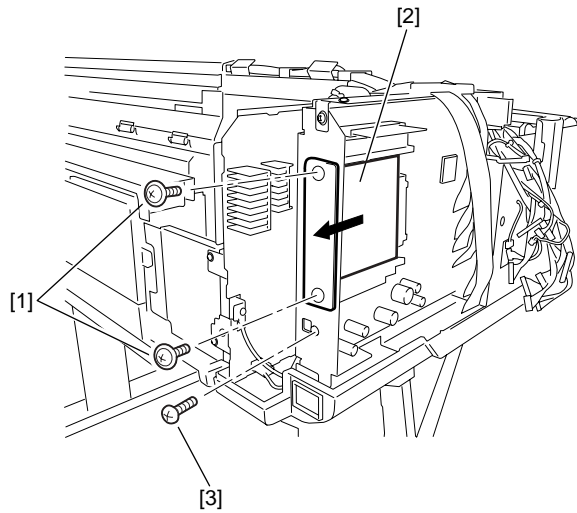
F-4-148

3) Remove the three screws[1], and then remove the shield cover[2] and the guide[3].



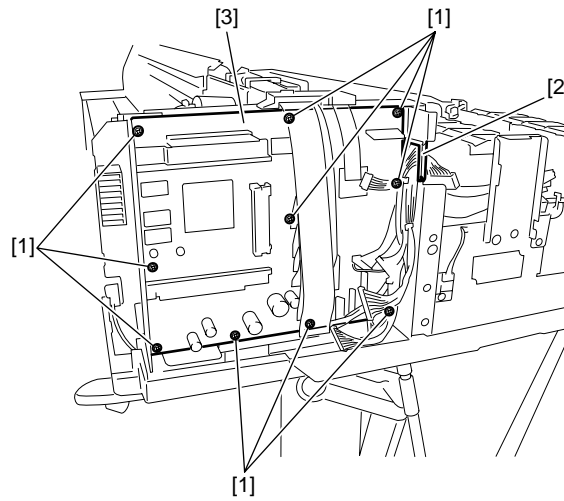
F-4-149

- 4) Remove all connectors from the main controller PCB.
- 5) Remove the two screws[1] to remove the HDD expansion PCB[2], and then remove the screw[3].



F-4-150

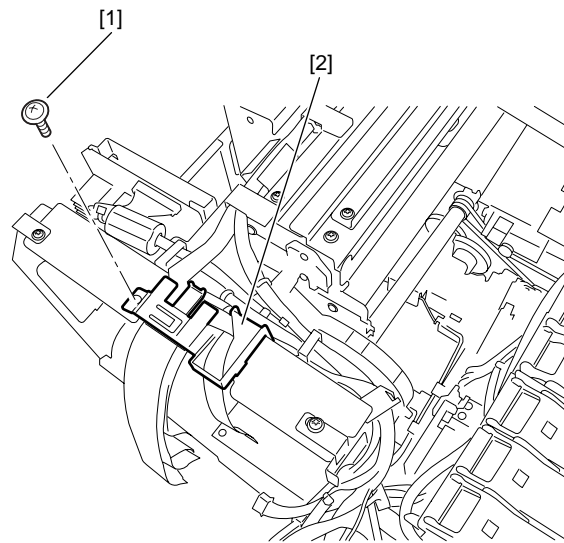
- 6) Remove the ten screws[1] and free the harness from harness guide[2] to remove the main controller PCB[3].



F-4-151

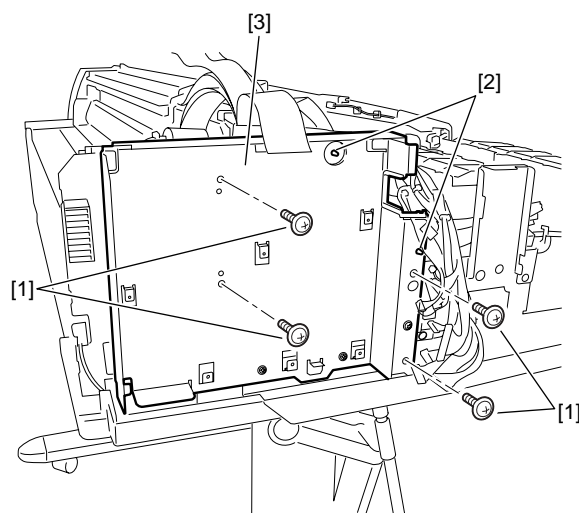
b) Removing the main controller mounting plate

- 1) Remove the main controller PCB.
- 2) Free the harness from the harness guide.
- 3) Remove the screw [1] and remove the flexible guide [2].



F-4-152

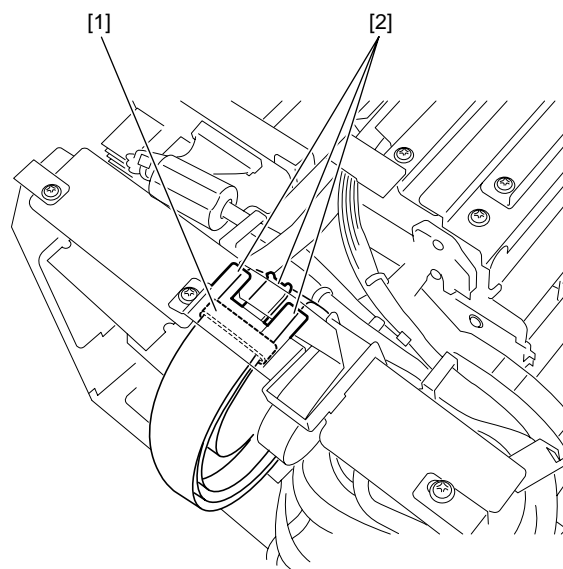
4) Remove the four screws [1] and two hooks [2] from the harness guide and remove the main controller mounting plate [3].



F-4-153

c) Note on installing the cable holder

In installing the cable holder, secure ferrite core [1] to the flexible cable on the carriage with the cable holder before hooking the flexible cable from the operation panel at the three claws [2].



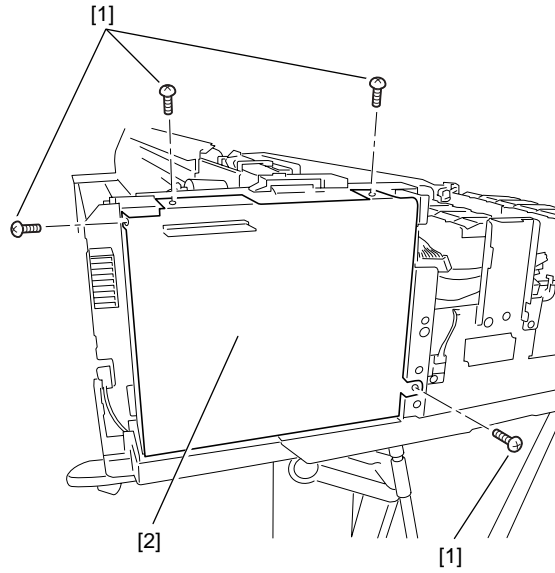
F-4-154

d) Removing the power supply PCB

1) To remove the power supply PCB, open the top cover and remove the roll feed unit, left circle cover, tank cover, left cover, lower rear cover, lower rear left cover and left rear cover.

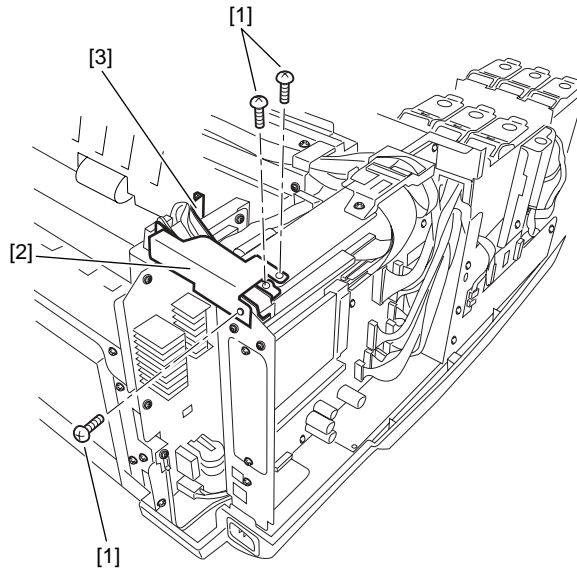
Refer to DISASSEMBLY/REASSEMBLY > Points to note on Disassembly and Reassembly > External Covers.

2) Remove the four screws[1] and remove the shield plate[2].



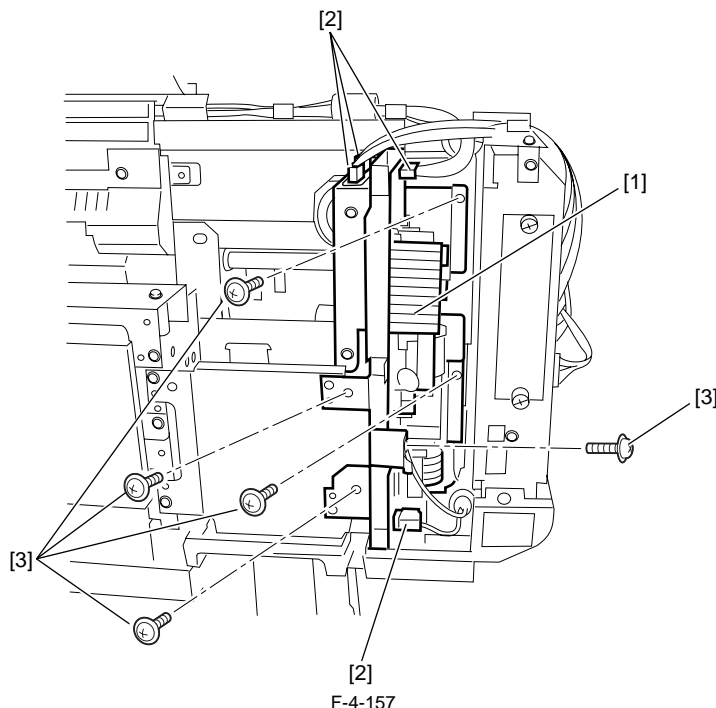
F-4-155

3) Remove the three screws[1], and then remove the shield cover[2] and the guide[3].



F-4-156

- 4) Disconnect the four connectors[2] from the power supply PCB[1] and Hard disk drive.
- 5) Remove the five screws[3], and then remove the power supply PCB[1] together with the mounting plate.



e) Procedure for replacing the maintenance cartridge relay PCB(ROM board)

- 1) Turn off the printer and unplug the power cord.
- 2) Replace the maintenance cartridge relay PCB.
- 3) Plug the power cord to the outlet, and then turn on the printer with the PAPER SOURCE button and INFORMATION button pressed down. (The printer will start up in the PCB Replacement mode.)
- 4) Check that "Initializing" appears on the display, and then release the buttons. (When the printer enters the PCB Replacement mode, the message lamp goes on.)
- 5) Wait until "REPLACE MODE" appears on the display.
- 6) Select "MC BOARD", and then press the ok button.
- 7) Check that "TURN POWER OFF" appears on the display, and then turn off the printer.
- 8) Turn on the printer.
- 9) Check the firmware version. If the firmware is not the latest version, update.

f) Procedure for replacing the main controller PCB

- 1) Turn off the printer and unplug the power cord.
- 2) Replace the main controller PCB.
- 3) Plug the power cord to the outlet, and then turn on the printer with the PAPER SOURCE button and INFORMATION button pressed down. (The printer will start up in the PCB Replacement mode.)
- 4) Check that "Initializing" appears on the display, and then release the buttons. (When the printer enters the PCB Replacement mode, the message lamp goes on.)
- 5) Wait until "REPLACE MODE" appears on the display.
- 6) Select "MC BOARD", and then press the ok button.
- 7) Check that "TURN POWER OFF" appears on the display, and then turn off the printer.
- 8) Turn on the printer.
- 9) Check the firmware version. If the firmware is not the latest version, update.

4.3.22 PCBs

iPF6300 / iPF6350 / iPF6300S

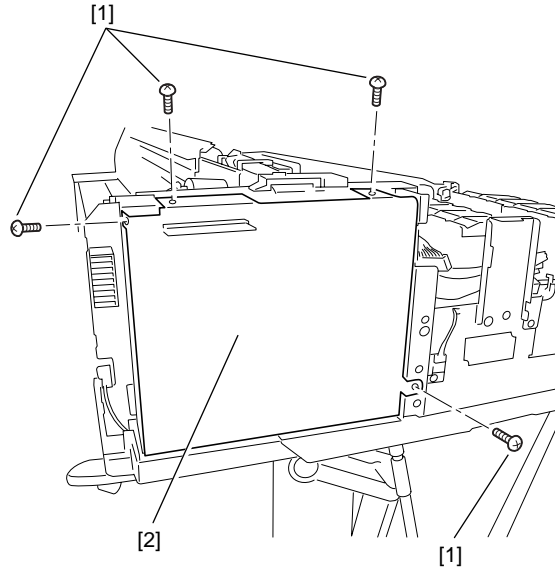
Do not replace the main controller PCB and maintenance cartridge relay PCB(ROM board) at the same time. These PCBs store important data such as settings and carriage drive time. Before replacement of either PCB, the data stored in it is moved to the other PCB through internal communication so that it can be taken over to the new PCB automatically. This is the reason why the two PCBs should not be replaced at the same time. If you want to replace both PCBs at the same time, first carry out the procedure "Procedure for replacing the maintenance cartridge relay PCB(ROM board)" and then carry out the procedure "Procedure for replacing the main controller PCB". After replacing with the main controller PCB or maintenance cartridge relay PCB which are supplied as service parts, check that the firmware to the latest version.

a) Removing the main controller PCB

1) To remove the main controller PCB, open the top cover and remove the roll feed unit, left circle cover, tank cover, left cover, lower rear cover, lower rear left cover and left rear cover.

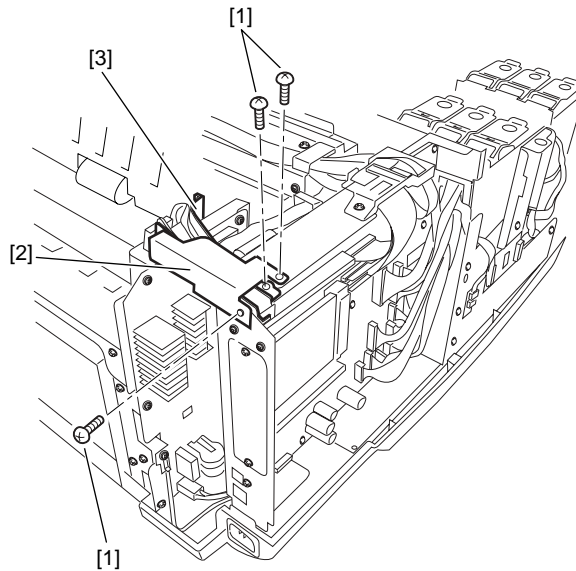
Refer to DISASSEMBLY/REASSEMBLY > Points to note on Disassembly and Reassembly > External Covers.

2) Remove the four screws[1] and remove the shield plate[2].



F-4-158

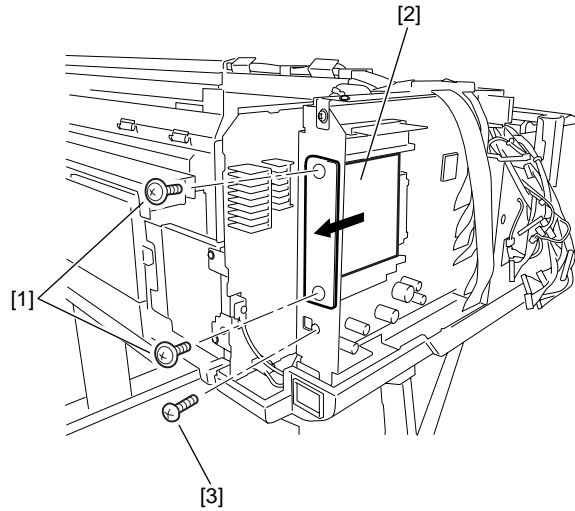
3) Remove the three screws[1], and then remove the shield cover[2] and the guide[3].



F-4-159

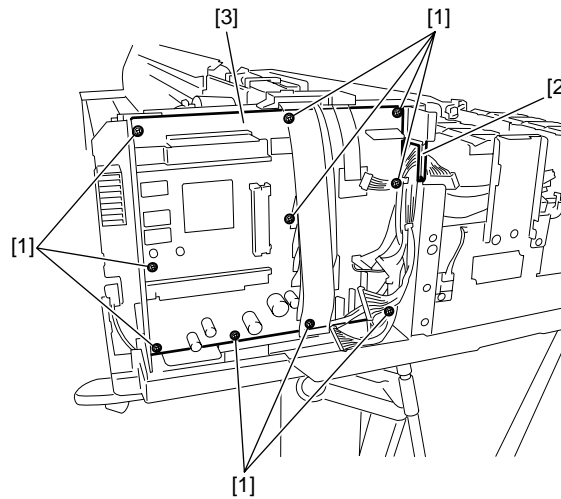
4) Remove all connectors from the main controller PCB.

5) Remove the two screws [1] to remove the HDD expansion PCB [2], and then remove the screw [3].



F-4-160

6) Remove the ten screws [1] and free the harness from harness guide [2] to remove the main controller PCB [3].



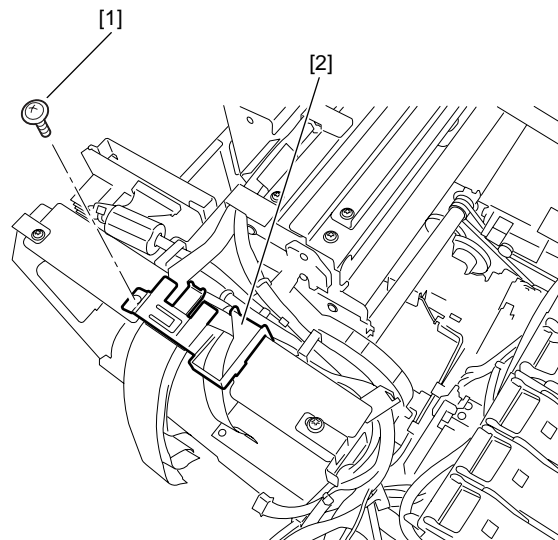
F-4-161

b) Removing the main controller mounting plate

1) Remove the main controller PCB.

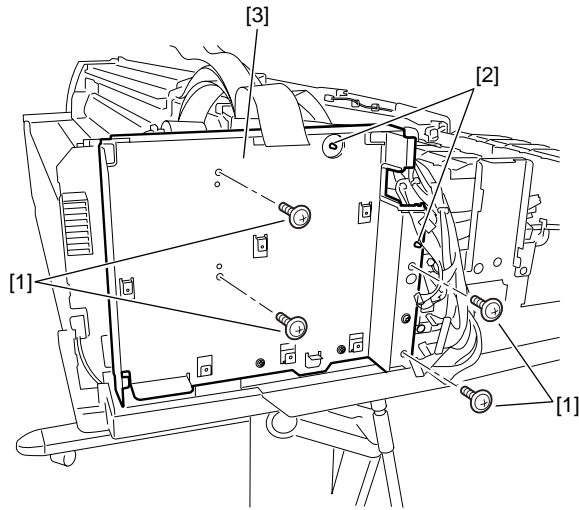
2) Free the harness from the harness guide.

3) Remove the screw [1] and remove the flexible guide [2].



F-4-162

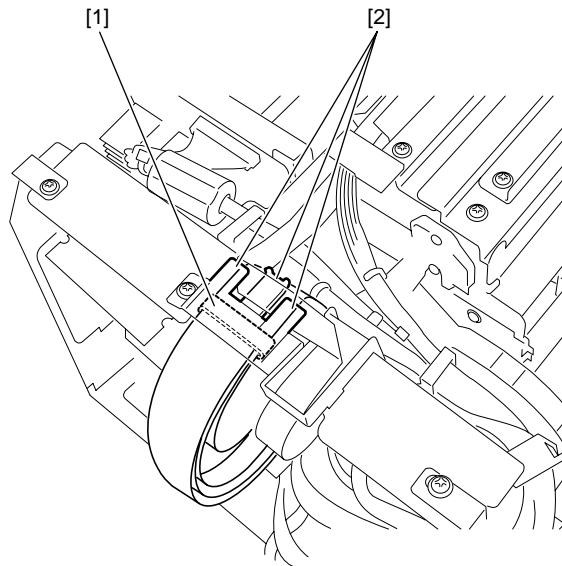
4) Remove the four screws [1] and two hooks [2] from the harness guide and remove the main controller mounting plate [3].



F-4-163

c) Note on installing the cable holder

In installing the cable holder, secure ferrite core [1] to the flexible cable on the carriage with the cable holder before hooking the flexible cable from the operation panel at the three claws [2].



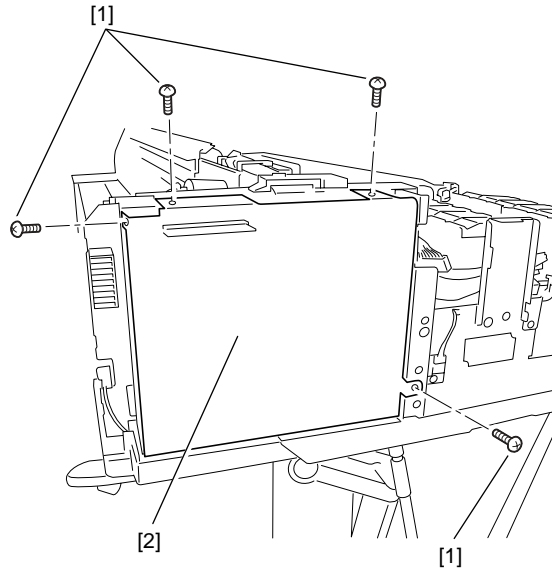
F-4-164

d) Removing the power supply PCB

1) To remove the power supply PCB, open the top cover and remove the roll feed unit, left circle cover, tank cover, left cover, lower rear cover, lower rear left cover and left rear cover.

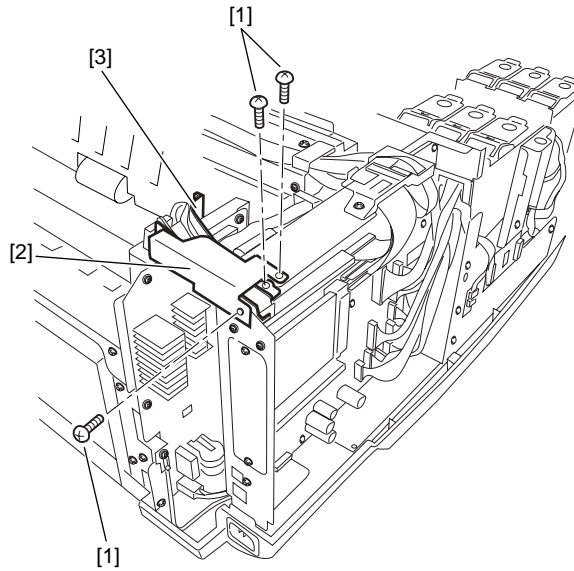
Refer to DISASSEMBLY/REASSEMBLY > Points to note on Disassembly and Reassembly > External Covers.

2) Remove the four screws[1] and remove the shield plate[2].



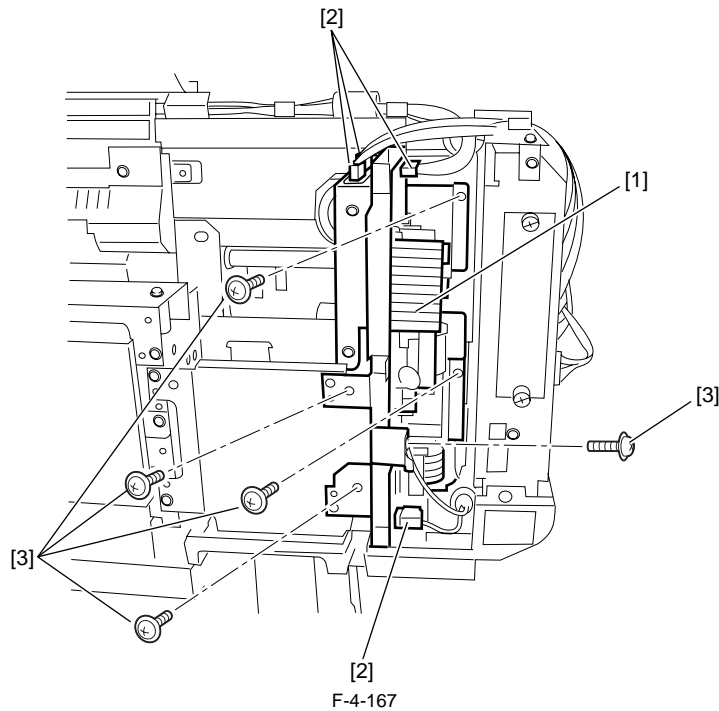
F-4-165

3) Remove the three screws[1], and then remove the shield cover[2] and the guide[3].



F-4-166

- 4) Disconnect the four connectors[2] from the power supply PCB[1] and Hard disk drive.
- 5) Remove the five screws[3], and then remove the power supply PCB[1] together with the mounting plate.



e) Replacing the maintenance cartridge relay PCB (ROM board)

- 1) Turn off the power and disconnect the power plug.
- 2) Replace the maintenance cartridge relay PCB.
- 3) Reconnect the power plug and turn on the power while pressing the [Load] and [Navigate] keys. (Start the printer in PCB replacement mode.)
- 4) Release the key, but not before making sure that "Initializing" appears on the display. (The message lamp lights when printer enters PCB replacement mode.)
- 5) Wait until "REPLACE MODE" appears on the display.
- 6) Select MC BOARD and press the [OK] key.
- 7) Turn off the power, but not before making sure that "Power off" appears on the display.
- 8) Turn on the power.
- 9) Check the firmware version. If the firmware is not the latest version, upgrade the firmware to the latest version.

f) Replacing the main controller PCB

- 1) Turn off the power and disconnect the power plug.
- 2) Replace the main controller PCB.
- 3) Reconnect the power plug and turn on the power while pressing the [Load] and [Navigate] keys. (Start the printer in PCB replacement mode.)
- 4) Release the key, but not before making sure that "Initializing" appears on the display. (The message lamp lights when printer enters PCB replacement mode.)
- 5) Wait until "REPLACE MODE" appears on the display.
- 6) Select CPU BOARD and press the [OK] key.
- 7) Turn off the power, but not before making sure that "Power off" appears on the display.
- 8) Turn on the power.
- 9) Check the firmware version. If the firmware is not the latest version, upgrade the firmware to the latest version.

4.3.23 Opening the Cap/Moving the Wiper Unit

iPF6100 / iPF6200 / iPF6000S

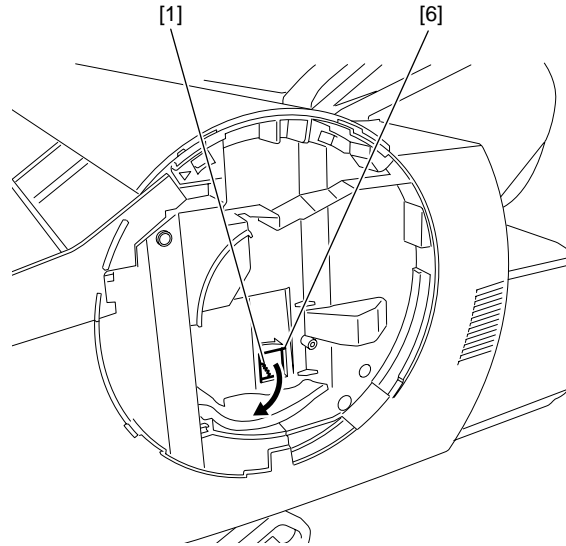
This section explains how to open the cap and ink supply valve manually.
To move the carriage with the power off, you need to release the carriage lock pin and cap manually.

1. Opening the Cap/Releasing the Carriage Lock Pin

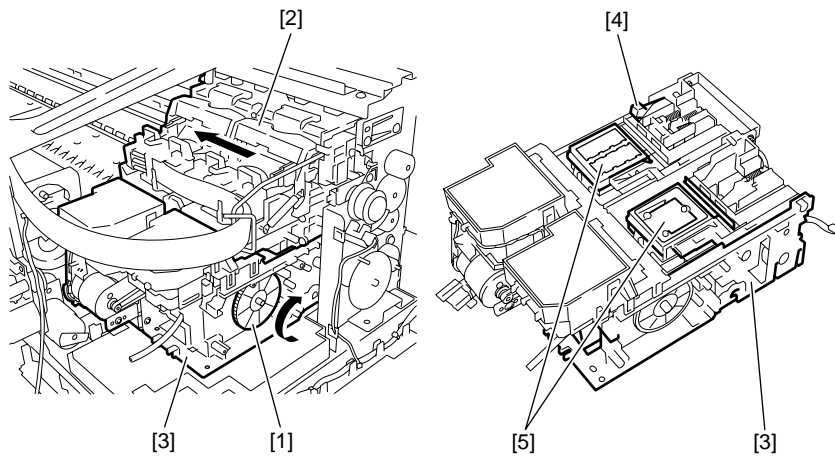
1) Remove the right circle cover and mist filter.

Refer to DISASSEMBLY/REASSEMBLY > points to Note on Disassembly and Reassembly > External Cover.

2) Turn the gear[1] of the purge unit[3] in the direction of the arrow from the hole[6] of the right cover. The cap[5] and lock pin[4] move down, allowing you to move the carriage[2].



F-4-168



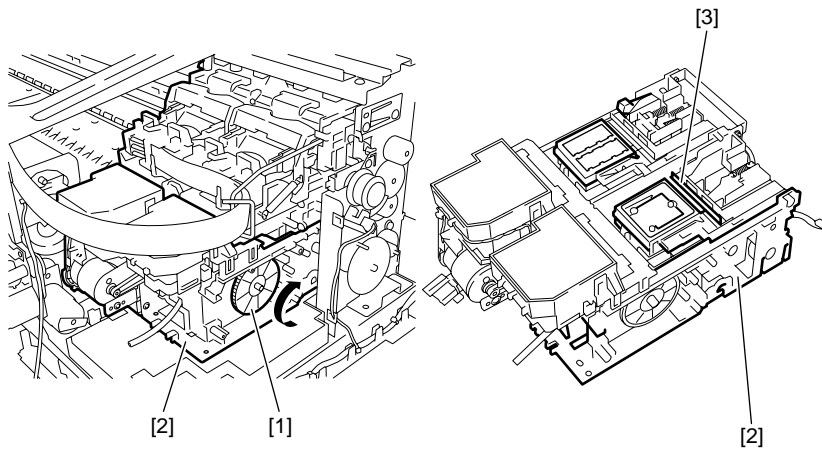
F-4-169

2. Moving the Wiper Unit

1) Open the top cover, and then remove the roll feed unit, output guide, right circle cover, right upper cover, operation panel, mist filter, exhaust filter, right cover, right front cover, cover guide, cover plate(right).

Refer to DISASSEMBLY/REASSEMBLY > points to Note on Disassembly and Reassembly > External Cover.

2) To move the wiper unit[3], turn the gear[1] of the purge unit[2] in the direction of the arrow.



F-4-170

4.3.24 Opening the Cap/Moving the Wiper Unit

iPF6300 / iPF6350 / iPF6300S

This section explains how to open the cap and ink supply valve.
To move the carriage with the power off, you need to release the carriage lock pin and cap.

a) Opening the Cap/Releasing the Carriage Lock Pin by service mode

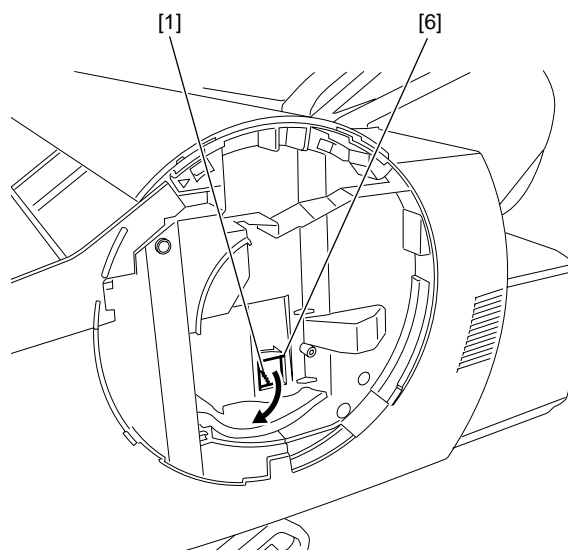
After entering the service mode, execute the following mode.
Service mode: SERVICE MODE > FUNCTION > CR UNLOCK

b) Opening the Cap/Releasing the Carriage Lock Pin manually.

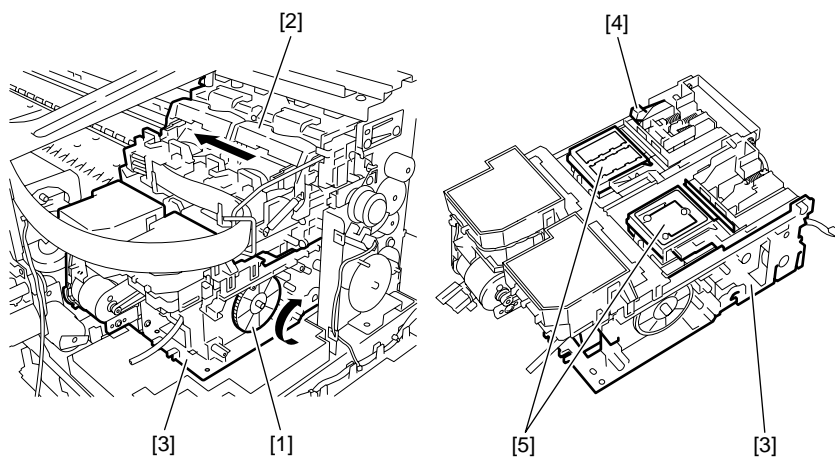
1) Remove the right circle cover and mist filter.

Refer to DISASSEMBLY/REASSEMBLY > points to Note on Disassembly and Reassembly > External Cover.

2) Turn the gear [1] of the purge unit [3] in the direction of the arrow from the hole [6] of the right cover. The cap [5] and lock pin [4] move down, allowing you to move the carriage [2].



F-4-171



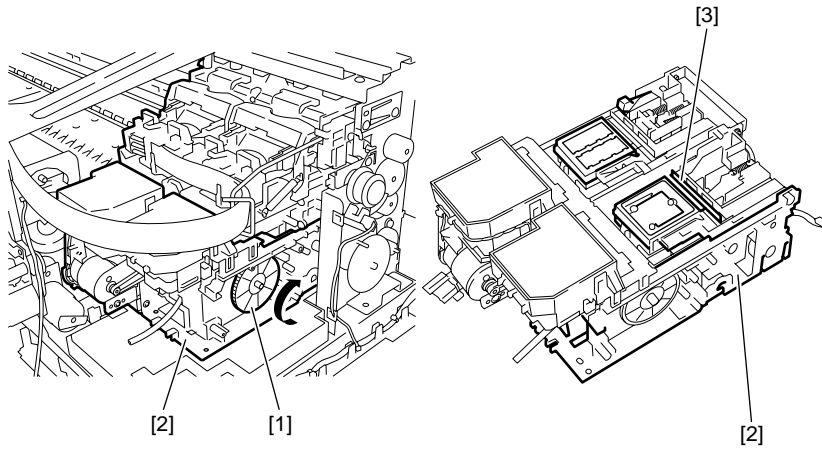
F-4-172

c) Moving the Wiper Unit

1) Open the top cover, and then remove the roll feed unit, output guide, right circle cover, right upper cover, operation panel, mist filter, exhaust filter, right cover, right front cover, cover guide, cover plate(right).

Refer to DISASSEMBLY/REASSEMBLY > points to Note on Disassembly and Reassembly > External Cover.

2) To move the wiper unit[3], turn the gear[1] of the purge unit[2] in the direction of the arrow.

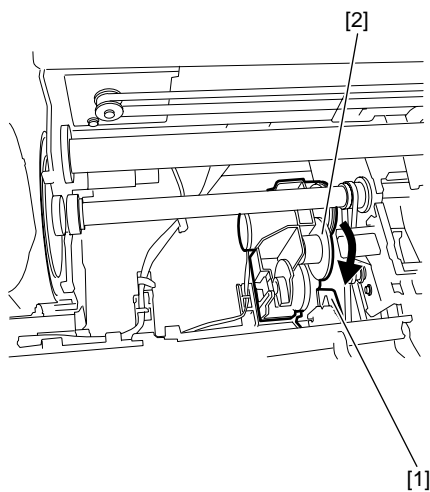


F-4-173

4.3.25 Opening/Closing the Ink Supply Valve

iPF6100 / iPF6200 / iPF6000S / iPF6300 / iPF6350 / iPF6300S

- 1) Open the top cover, and then remove the left circle cover and tank cover.
- 2) To open the ink supply valve, turn the cam [2] in the direction of the arrow and press the link [1].



F-4-174



- If the tube is full of ink, releasing the printhead lock lever with the ink supply valve open can cause the ink to flow back to the ink supply unit, resulting in leakage of ink from the ink supply needle.
- If the ink supply valve is held open due to a problem such as a valve motor error(03130031-2F3A), remove the valve motor unit(refer to DISASSEMBLY/RE-ASSEMBLY > Points to Note on Disassembly and Reassembly > Ink Tank Unit) and close the ink supply valve.

4.3.26 Draining the Ink

iPF6100 / iPF6200 / iPF6300 / iPF6350 / iPF6300S

There are two methods of removing the ink, a manual method and an automatic method. When the ink is drained, the ink inside the ink passage totaling about 72g (about 6g x 12) is drained as waste ink.



To prevent ink leakage, be sure to drain the ink inside the ink passage before transporting the printer again.

1. Automatic ink drainage

To perform "automatic ink drainage", select "Main Menu" > "Maintenance" > "Move Printer".



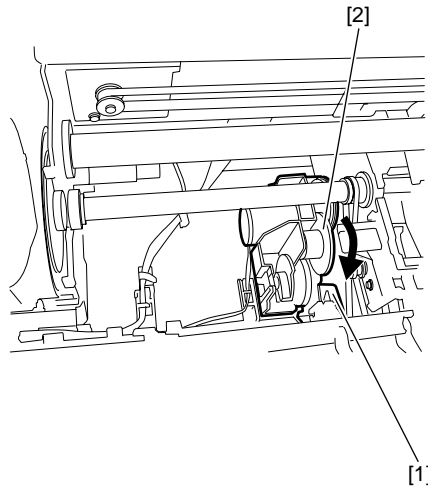
Perform automatic ink drainage again if a power outage or other cause shuts off the power during the operation for automatic ink drainage.

2. Manual Ink Drainage

Perform manual ink drainage when the printer cannot be powered due to a printer's electrical part failure, firmware error, or power supply problem.

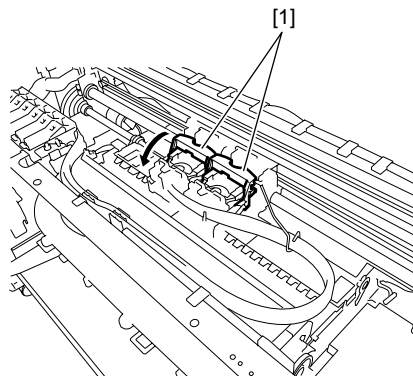
Manual Ink Drainage Procedure

- 1) Open the top cover, and then remove the left and right circle covers, tank cover, right upper cover, operation panel, mist filter, filter cover, filter, and right cover. Refer to DISASSEMBLY/REASSEMBLY > Points to Note on Disassembly and Reassembly > External Cover.
- 2) Move the carriage onto the platen. Refer to DISASSEMBLY/REASSEMBLY > Points to Note on Disassembly and Reassembly > Opening the Cap/Move the Wiper Unit.
- 3) Turn the cam [2] in the direction of the arrow, and then press the link [1] to open the ink supply valve.



F-4-175

- 4) Release both printhead fixer levers [1] to flow the ink from inside the ink tube to the sub-buffer of the ink tank unit.



F-4-176



The sub-buffer can contain 22g of ink. About 6g of ink flows into the sub-buffer each time manual ink drainage is performed.

- 5) Make sure that the ink has been drained completely, turn the cam to close the ink supply valve.

4.4 Applying the Grease

4.4.1 Applying the Grease

iPF6100 / iPF6200 / iPF6000S / iPF6300 / iPF6350 / iPF6300S

Some parts require application of grease when replaced. Apply the grease(special tool) listed below. Smear the grease lightly and evenly with a flat brush or the like.

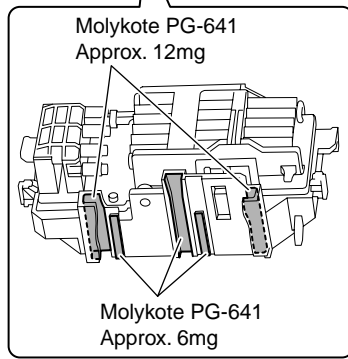
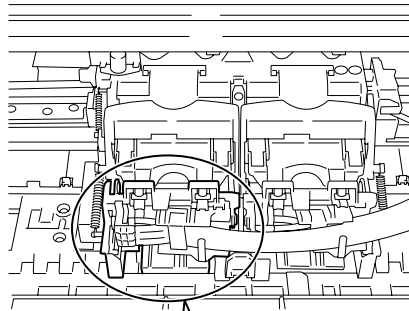
For the printer disassembly/reassembly method, refer to "DISASSEMBLY/REASSEMBLY" and "parts catalog".



Do not apply the grease to locations in which not designated grease may cause poor print quality. Take particular care that grease do not get onto the wiper, cap, and linear scale.

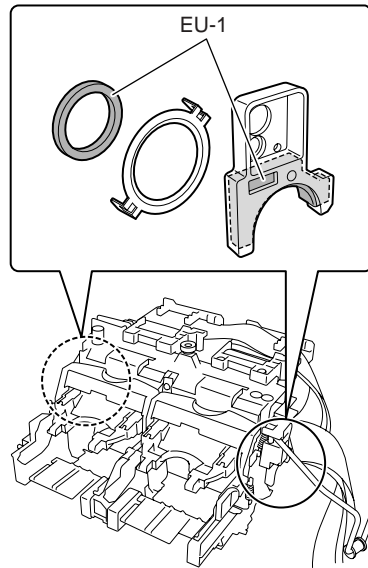
No.	Location	Grease type	Quantity
1	Joint base	Molykote PG-641	Approx.6/12mg
2	Shaft cleaner/oil pad	EU-1	soaks enough.
3	Eject roller bearing	Molykote PG-641	Approx.12mg
4	Eject roller center bearing	Molykote PG-641	Approx.12mg
5	Spur cam	Molykote PG-641	Approx.20mg
6	Pinch roller unit release shaft	Molykote PG-641	Approx.12mg

a) Carriage unit
1) Joint base



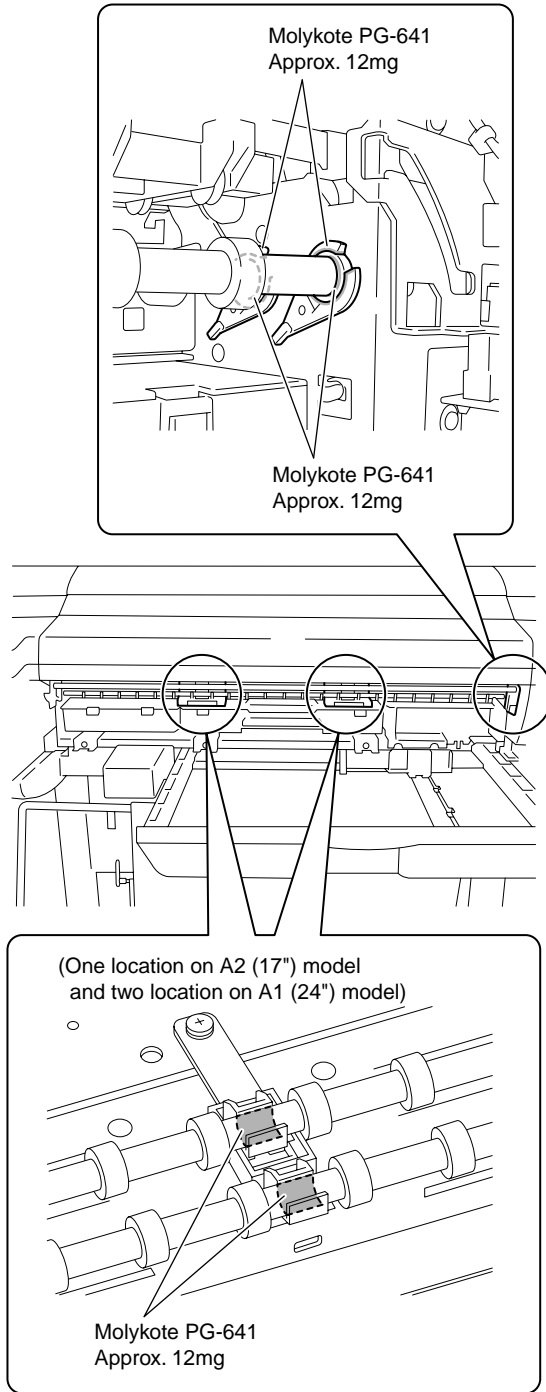
F-4-177

2) Shaft cleaner/oil pad



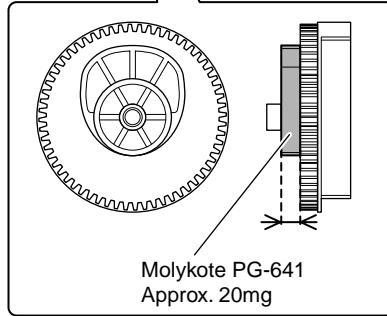
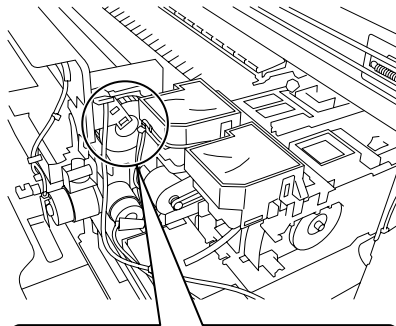
F-4-178

- b) Eject roller unit
- 3) Eject roller bearing
- 4) Eject roller center bearing



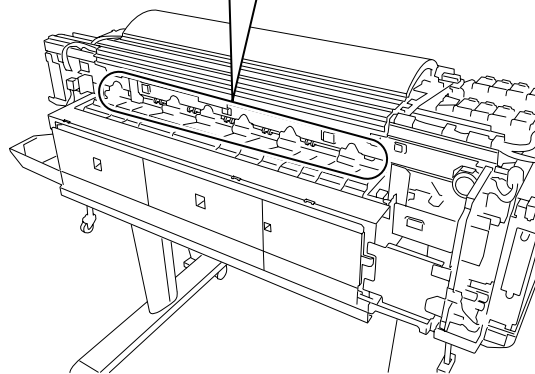
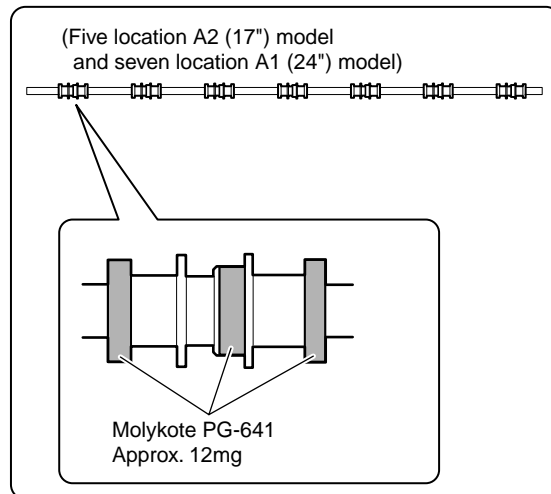
F-4-179

c) **Spur unit**
5) Spur cam



F-4-180

d) **Pinch roller unit**
6) Pinch roller unit release shaft



F-4-181

4.5 Adjustment and Setup Items

4.5.1 Adjustment Item List

iPF6100 / iPF6200 / iPF6000S

The following adjustment procedures need to be performed when the parts have been replaced or remove and then reinstalled:

T-4-1

Adjustment item	Adjustment timing
Multi sensor recalibration	Multi sensor replacement/removal
	Carriage unit replacement/removal
Adjusting wire roller	Wire guide replacement/removal
	Carriage unit replacement/removal
Head management sensor recalibration	Head management sensor replacement/removal
	Carriage unit replacement/removal

4.5.2 Adjustment Item List

iPF6300 / iPF6350 / iPF6300S

The following adjustment procedures need to be performed when the parts have been replaced or remove and then reinstalled:

T-4-2

Adjustment item	Adjustment timing
Multi sensor recalibration	Multi sensor replacement/removal
	Carriage unit replacement/removal
Adjusting wire roller	Wire guide replacement/removal
	Carriage unit replacement/removal
Head management sensor recalibration	Head management sensor replacement/removal
	Carriage unit replacement/removal
Carriage motor recalibration	Carriage unit replacement/removal
	Carriage motor replacement/removal
	Carriage belt replacement/removal

4.5.3 Procedure after Replacing the Carriage Unit or Multi Sensor

iPF6100 / iPF6200 / iPF6000S

a) Multi Sensor Recalibration

Since the multi sensor has individual electrical specificity, the following are recalibrated at the factory, namely, the optical axis of the sensor, the sensor gain for measuring the printhead height and sensor calibration. Accordingly, carry out the following adjustments in the service mode whenever replacing the carriage unit or multi sensor.

- Service mode : SERVICE MODE > ADJUST > GAP CALIB.
- Service mode : SERVICE MODE > ADJUST > PRINT PATTERN > OPTICAL AXIS
Media type : Photo glossy paper
Media size : Media having a width equal too larger than that of A2-size paper



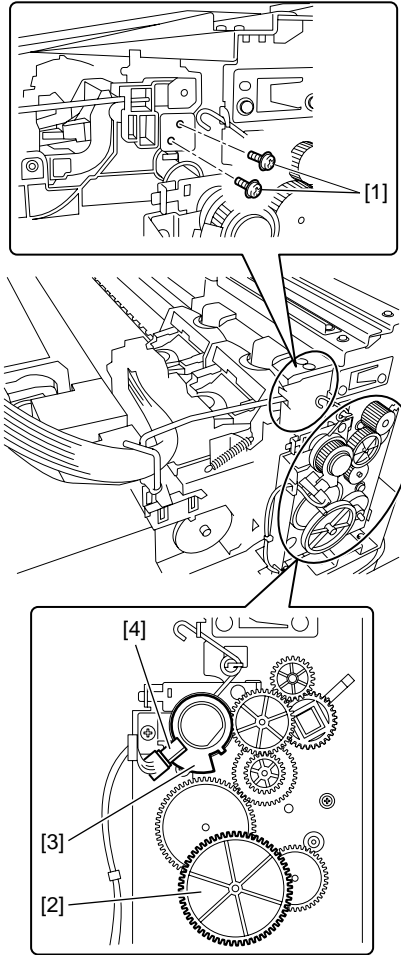
The multi sensor reference plate(QL2-1561-000:PLATE, REFLECTION, MULTI-SENSOR) must be replaced at the same time whenever the carriage or the multi sensor is being replaced.

b) Adjusting the wire roller

To prevent the wire roller mounted on the carriage from contacting the duct and others during carriage operation, perform the following adjustment whenever you have removed or replaced the carriage unit. This adjustment is not required when you have replaced only the multi sensor.

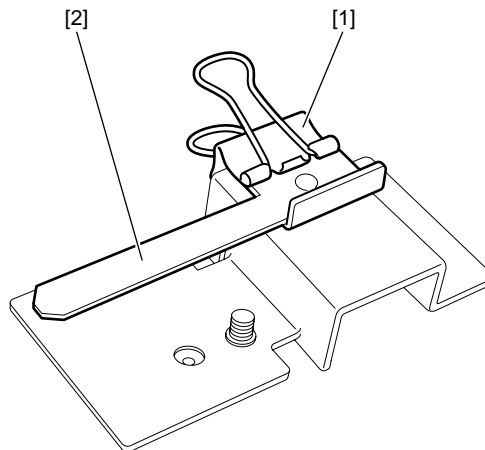
- Make adjustments with the carriage lock released.
- Make adjustments with the tube disconnected from the tube guide.

- 1) Remove the ink tube from the wire guide.
- 2) Loosen the two screws [1].
- 3) Turn the gear [2] until the lift cam flag [3] reaches the position shown below.
 - Bottom position where the sensor [4] light is blocked by the flag (lowest position to which the carriage unit descends).



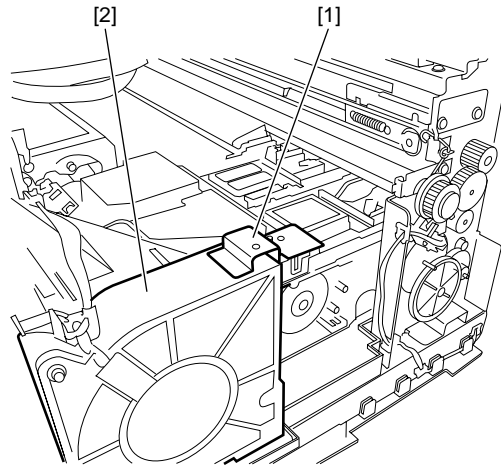
F-4-182

- 4) Remove the clip [1] and roller retainer [2] from the carriage wire tool.



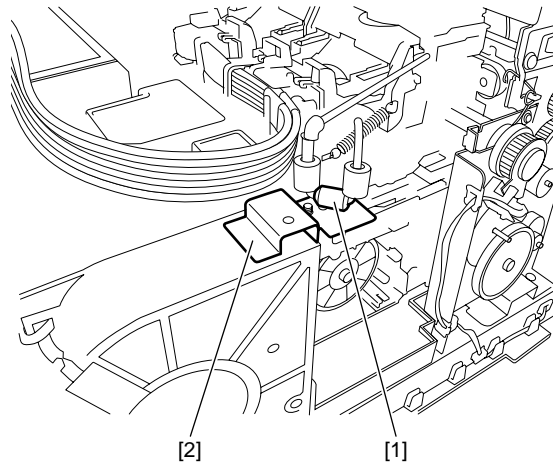
F-4-183

5) Install the carriage wire tool [1] in position with its leaf spring being attached to the top of mist fan [2].



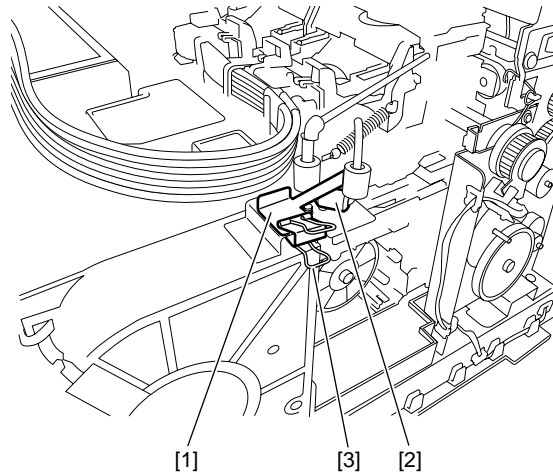
F-4-184

6) Moving the carriage, adjust the height of the wire guide to bring its roller [1] into contact with the top of carriage wire tool [2].



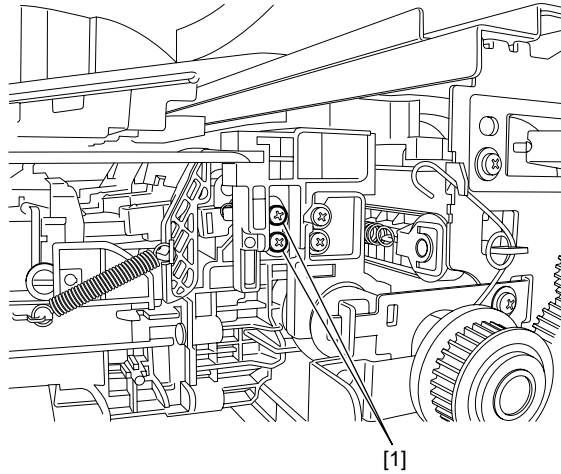
F-4-185

7) Secure the roller retainer [1] with the clip [3] in contact with the top of roller [2].



F-4-186

8) Retighten the two screws [1] loosened in Step 2) to secure the wire guide.



F-4-187

9) Pass the ink tubes through the wire guides.

4.5.4 Procedure after Replacing the Carriage Unit or Multi Sensor

iPF6300 / iPF6350 / iPF6300S

a) Multi Sensor Recalibration

Since the multi sensor has individual electrical specificity, the following are recalibrated at the factory, namely, the optical axis of the sensor, the sensor gain for measuring the printhead height and sensor calibration. Accordingly, carry out the following adjustments in the service mode whenever replacing the carriage unit or multi sensor.

- Service mode : SERVICE MODE > ADJUST > GAP CALIB.

- Service mode : SERVICE MODE > ADJUST > PRINT PATTERN > OPTICAL AXIS

Media type : Photo glossy paper

Media size : Media having a width equal too larger than that of A2-size paper



The multi sensor reference plate(QL2-2423-000:PLATE, REFLECTION, MULTI-SENSOR) must be replaced at the same time whenever the carriage or the multi sensor is being replaced.

b) Carriage Motor Adjustment

- After the carriage and carriage motor and carriage belt and linear encoder sensor has been removed or replaced, execute the following service mode.

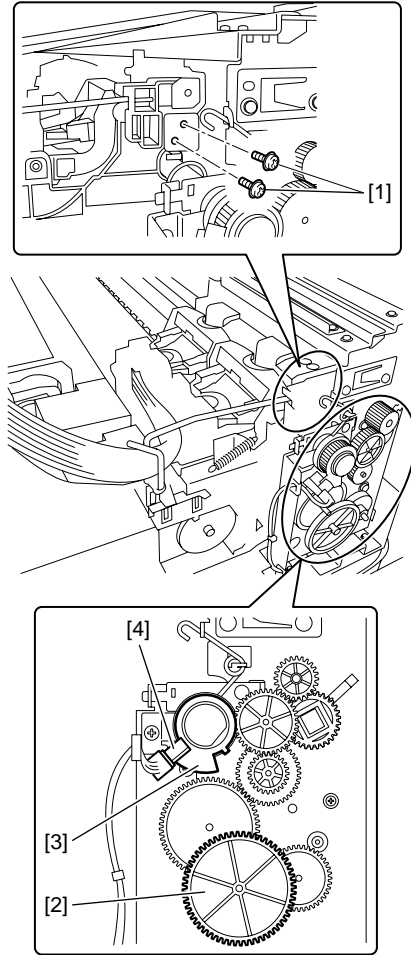
Service mode: SERVICE MODE > ADJUST > CR MOTOR COG

c) Adjusting the wire roller

To prevent the wire roller mounted on the carriage from contacting the duct and others during carriage operation, perform the following adjustment whenever you have removed or replaced the carriage unit. This adjustment is not required when you have replaced only the multi sensor.

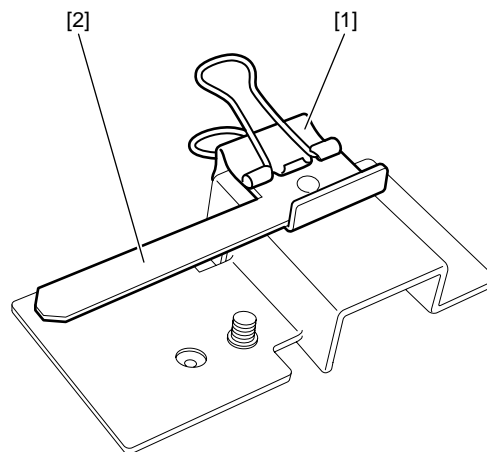
- Make adjustments with the carriage lock released.
- Make adjustments with the tube disconnected from the tube guide.

- 1) Remove the ink tube from the wire guide.
- 2) Loosen the two screws [1].
- 3) Turn the gear [2] until the lift cam flag [3] reaches the position shown below.
 - Bottom position where the sensor [4] light is blocked by the flag (lowest position to which the carriage unit descends).



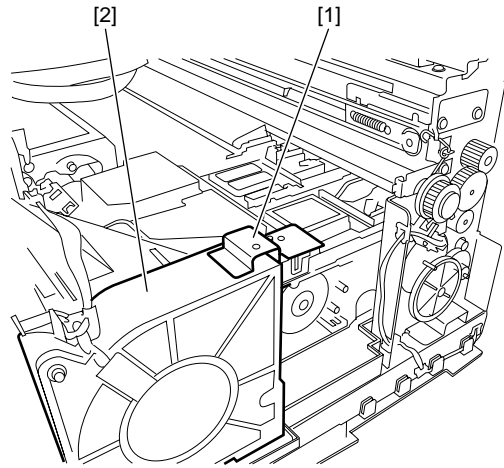
F-4-188

- 4) Remove the clip [1] and roller retainer [2] from the carriage wire tool.



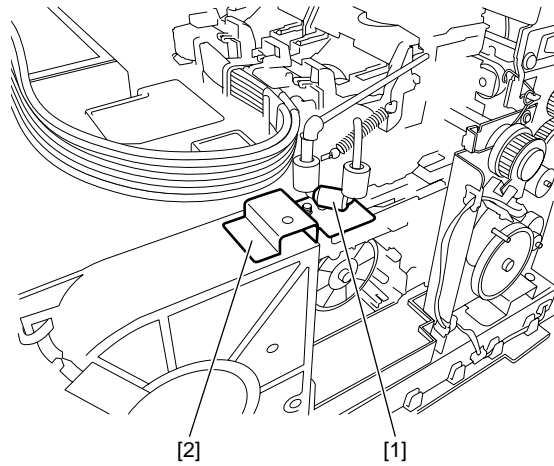
F-4-189

5) Install the carriage wire tool [1] in position with its leaf spring being attached to the top of mist fan [2].



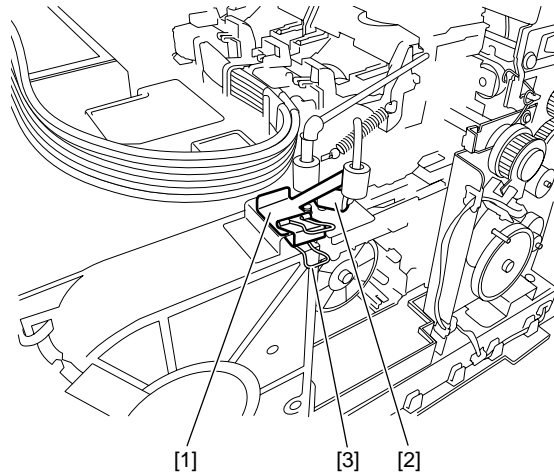
F-4-190

6) Moving the carriage, adjust the height of the wire guide to bring its roller [1] into contact with the top of carriage wire tool [2].



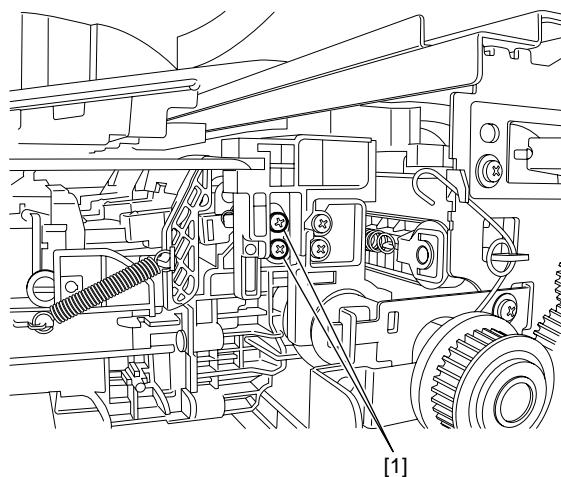
F-4-191

7) Secure the roller retainer [1] with the clip [3] in contact with the top of roller [2].



F-4-192

8) Retighten the two screws [1] loosened in Step 2) to secure the wire guide.



F-4-193

9) Pass the ink tubes through the wire guides.

4.5.5 Procedure after Replacing the Head Management Sensor

iPF6100 / iPF6200 / iPF6000S / iPF6300 / iPF6350 / iPF6300S

Since the distance between the head management sensor and the carriage unit varies among printers, the optical axis is factory-adjusted to adjust the non-discharging detection position. When you have replaced the head management sensor or performed assembly/reassembly of surrounding parts that can change the distance between the head management sensor and the carriage unit, readjustment is required. Perform the readjustment in the service mode.

Service mode : SERVICE MODE > ADJUST > NOZZLE CHK POS.

Chapter 5 MAINTENANCE

Contents

5.1 Periodic Replacement Parts	5-1
5.1.1 Periodic Replacement Parts	5-1
5.2 Consumable Parts.....	5-1
5.2.1 Consumable Parts.....	5-1
5.2.2 Consumable Parts.....	5-2
5.2.3 Consumable Parts.....	5-3
5.2.4 Consumable Parts.....	5-4
5.3 Periodic Maintenance.....	5-5
5.3.1 Periodic Maintenance.....	5-5
5.3.2 Periodic Maintenance.....	5-8
5.3.3 Periodic Maintenance.....	5-11

5.1 Periodic Replacement Parts

5.1.1 Periodic Replacement Parts

iPF6100 / iPF6200 / iPF6000S / iPF6300 / iPF6350 / iPF6300S

T-5-1

Level	Periodic Replacement part
User	None
Service Personnel	None

5.2 Consumable Parts

5.2.1 Consumable Parts

iPF6100 / iPF6200

T-5-2

	Consumables				Service Mode					
	Name	Part number	Q'ty	Life sheets/ A1	PARTS xx	COUNTER x	States (Error Code)			
Service	SUCTION FAN UNIT	QM3-0701-000	1	15000	A1	A	OK/W1/E146-4001			
	DUCT UNIT, PLATEN	QM3-0800-000	1	15000	B1	B	OK/W1/E146-4001			
	CARRIAGE UNIT	QM3-0784-000	1	15000	D1	D	OK/W1/W2			
	LEVER, R, INK TUBE	QC2-0659-050	1	15000						
	LEVER, L, INK TUBE	QC2-0660-050	1	15000						
	LINK, LEVER, TUBE	QC2-0661-000	4	15000						
	SPRING, TENSION	QC2-1396-000	2	15000						
	PAD, OIL	QC2-0664-000	2	15000						
	HOLDER, WIRE(MECH)	QC2-0663-000	1	15000						
	TUBE GUIDE UNIT	QM3-0704-000	1	15000						
	CLEANING UNIT, R, RAIL, CARRIAGE	QM3-0543-000	1	15000				D1/D3		
	CLEANING UNIT, L, RAIL, CARRIAGE	QM3-0542-000	1	15000						
	FLEXIBLE CABLE ASS'Y	QM3-0786-000	1	15000	D2					
	ENCODER SENSOR UNIT	QM2-3421-000	1	15000	D3					
	SCALE, LINEAR	QC2-0696-000	1	15000						
	CAM, LIFTER	QC2-0675-000	2	15000	D4					
	MULTI SENSOR UNIT	QM3-0365-000	1	15000	D5					
					X1	X	OK/W1/W2			
	INK SUPPLY UNIT	QM3-0775-000	1	15000	F1	F	OK/W1/E144-4047			
	INK SUPPLY UNIT (R)	QM3-0574-000	1	15000						
PURGE KIT	QM3-0654-040	1	15000	H1	H	OK/W1/E141-4046				
HEAD MANAGEMENT SENSOR	QM3-0529-000	1	15000	L1	L	OK/W1/E194-404A				
MOTOR, 26.4V, DC	QK1-0447-000	1	15000	P1	P	OK/W1/W2				
CAM, ROWEL	QC2-1027-000	1	15000	R1	R	OK/W1/W2				
MIST FAN UNIT	QM3-0211-000	1	15000	V1	V	OK/W1/E146-4001				
MIST FILTER UNIT	QM3-0212-030	1	15000							
User	See "Product Overview> Features> Consumables"									



After supplies have been replaced, execute [INITIALIZE] > [PARTS COUNTER] > [PARTS xx] in service mode to initialize (clear) the parts counter information.

5.2.2 Consumable Parts

iPF6000S

T-5-3

	Consumables				Service Mode			
	Name	Part number	Q'ty	Life sheets/ A1	PARTS xx	COUNTER x	States (Error Code)	
Service	SUCTION FAN UNIT	QM3-0701-000	1	15000	A1	A	OK/W1/E146-4001	
	DUCT UNIT, PLATEN	QM3-0800-000	1	15000	B1	B	OK/W1/E146-4001	
	CARRIAGE UNIT	QM3-0784-000	1	15000	D1	D	OK/W1/W2	
	LEVER, R, INK TUBE	QC2-0659-050	1	15000				
	LEVER, L, INK TUBE	QC2-0660-050	1	15000				
	LINK, LEVER, TUBE	QC2-0661-000	4	15000				
	SPRING, TENSION	QC2-1396-000	2	15000				
	PAD, OIL	QC2-0664-000	2	15000				
	HOLDER, WIRE(MECH)	QC2-0663-000	1	15000				
	TUBE GUIDE UNIT	QM3-0704-000	1	15000				
	CLEANING UNIT, R, RAIL, CARRIAGE	QM3-0543-000	1	15000				D1/D3
	CLEANING UNIT, L, RAIL, CARRIAGE	QM3-0542-000	1	15000				
	FLEXIBLE CABLE ASS'Y	QM3-0786-000	1	15000	D2			
	ENCODER SENSOR UNIT	QM2-3421-000	1	15000	D3			
	SCALE, LINEAR	QC2-0696-000	1	15000				
	CAM, LIFTER	QC2-0675-000	2	15000	D4			
	MULTI SENSOR UNIT	QM3-0365-000	1	15000	D5			
					X1	X	OK/W1/W2	
	INK SUPPLY UNIT	QM3-5295-000	1	15000	F1	F	OK/W1/E144-4047	
	INK SUPPLY UNIT (R)	QM3-5294-000	1	15000				
	INK TUBE UNIT (L)	QM3-5295-000	1	15000				
	INK TUBE UNIT (R)	QM3-5296-000	1	15000				
PURGE KIT	QM3-0654-040	1	15000	H1	H	OK/W1/E141-4046		
HEAD MANAGEMENT SENSOR	QM3-0529-000	1	15000	L1	L	OK/W1/E194-404A		
MOTOR, 26.4V, DC	QK1-0447-000	1	15000	P1	P	OK/W1/W2		
MIST FAN UNIT	QM3-0807-000	1	15000	V1	V	OK/W1/E146-4001		
MIST FILTER UNIT	QM3-0212-030	1	15000					
User	See "Product Overview> Features> Consumables"							



After supplies have been replaced, execute [INITIALIZE] > [PARTS COUNTER] > [PARTS xx] in service mode to initialize (clear) the parts counter information.

5.2.3 Consumable Parts

iPF6300 / iPF6350

T-5-4

	Consumables				Service Mode		
	Name	Part number	Q'ty	Life sheets/ A1	PARTS xx	States (Error Code)	
Service	SUCTION FAN UNIT	QM3-0701-000	1	15000	Wia-1	OK/W1/E146-4001	
	DUCT UNIT, PLATEN	QM3-0800-000	1	15000	Wib-1	OK/W1/E146-4001	
	CARRIAGE UNIT	QM3-6677-000	1	15000	CR-1	OK/W1/W2	
	LEVER, R, INK TUBE	QC2-0659-050	1	15000			
	LEVER, L, INK TUBE	QC2-0660-050	1	15000			
	LINK, LEVER, TUBE	QC2-0661-000	4	15000			
	SPRING, TENSION	QC2-1396-000	2	15000			
	PAD, OIL	QC2-0664-000	2	15000			
	HOLDER, WIRE(MECH)	QC2-0663-000	1	15000			
	CLEANING UNIT, R, RAIL, CARRIAGE	QM3-0543-000	1	15000			CR-1/CR-3
	CLEANING UNIT, L, RAIL, CARRIAGE	QM3-0542-000	1	15000			
	FLEXIBLE CABLE ASS'Y	QM3-6678-000	1	15000	CR-2	OK/W1/W2	
	ENCODER SENSOR UNIT	QM2-3421-000	1	15000	CR-3		
	SCALE, LINEAR	QC3-1882-000	1	15000	CR-4		
	CAM, LIFTER	QC3-2664-000	2	15000			
	MULTI SENSOR UNIT	QM3-0365-000	1	15000	CR-5		
					MS-1		
	INK SUPPLY UNIT	QM3-6679-000	1	15000	SP-1		OK/W1/E144-4047
	INK SUPPLY UNIT (R)	QM3-6488-000	1	15000	PG-1		OK/W1/E141-4046
	PURGE KIT		1	15000			
	HEAD MANAGEMENT SENSOR	QM3-0529-000	1	15000	HMa-1	OK/W1/E194-404A	
	MOTOR, 26.4V, DC	QK1-0447-000	1	15000	PL-1	OK/W1/W2	
	CAM, ROWEL	QC2-1027-000	1	15000	PS-1	OK/W1/W2	
MIST FAN UNIT	QM3-0807-000	1	15000	Mi-1	OK/W1/E146-4001		
MIST FILTER UNIT	QM3-0212-030	1	15000				
CUTTER UNIT	QM3-8149-000	1	15000	CT-1	OK/W1/W2		
User	See "Product Overview> Features> Consumables"						



After supplies have been replaced, execute [INITIALIZE] > [PARTS COUNTER] > [PARTS xx] in service mode to initialize (clear) the parts counter information.

5.2.4 Consumable Parts

iPF6300S

T-5-5

	Consumables				Service Mode		
	Name	Part number	Q'ty	Life sheets/ A1	PARTS xx	States (Error Code)	
Service	SUCTION FAN UNIT	QM3-0701-000	1	15000	Wia-1	OK/W1/E146-4001	
	DUCT UNIT, PLATEN	QM3-0800-000	1	15000	Wib-1	OK/W1/E146-4001	
	CARRIAGE UNIT	QM3-9930-000	1	15000	CR-1	OK/W1/W2	
	LEVER, R, INK TUBE	QC2-0659-050	1	15000			
	LEVER, L, INK TUBE	QC2-0660-050	1	15000			
	LINK, LEVER, TUBE	QC2-0661-000	4	15000			
	SPRING, TENSION	QC2-1396-000	2	15000			
	PAD, OIL	QC2-0664-000	2	15000			
	HOLDER, WIRE(MECH)	QC2-0663-000	1	15000			
	CLEANING UNIT, R, RAIL, CARRIAGE	QM3-0543-000	1	15000			CR-1/CR-3
	CLEANING UNIT, L, RAIL, CARRIAGE	QM3-0542-000	1	15000			
	FLEXIBLE CABLE ASS'Y	QM3-0786-000	1	15000	CR-2	OK/W1/W2	
	ENCODER SENSOR UNIT	QM2-3421-000	1	15000	CR-3		
	SCALE, LINEAR	QC3-1882-000	1	15000	CR-4		
	CAM, LIFTER	QC3-2664-000	2	15000			
	MULTI SENSOR UNIT	QM3-0365-000	1	15000	CR-5		
					MS-1		
	INK SUPPLY UNIT	QM3-9918-000	1	15000	SP-1		OK/W1/E144-4047
	INK SUPPLY UNIT (R)	QM3-9919-000	1	15000			
	INK TUBE UNIT (L)	QM3-9920-000	1	15000			
	INK TUBE UNIT (R)	QM3-9921-000	1	15000			
	PURGE KIT	QM3-8145-000	1	15000	PG-1	OK/W1/E141-4046	
	HEAD MANAGEMENT SENSOR	QM3-0529-000	1	15000	HMa-1	OK/W1/E194-404A	
MOTOR, 26.4V, DC	QK1-0447-000	1	15000	PL-1	OK/W1/W2		
CAM, ROWEL	QC2-1027-000	1	15000	PS-1	OK/W1/W2		
MIST FAN UNIT	QM3-0807-000	1	15000	Mi-1	OK/W1/E146-4001		
MIST FILTER UNIT	QM3-0212-030	1	15000				
CUTTER UNIT	QM3-8149-000	1	15000	CT-1	OK/W1/W2		
User	See "Product Overview> Features> Consumables"						



After supplies have been replaced, execute [INITIALIZE] > [PARTS COUNTER] > [PARTS xx] in service mode to initialize (clear) the parts counter information.

5.3 Periodic Maintenance

5.3.1 Periodic Maintenance

iPF6100 / iPF6200

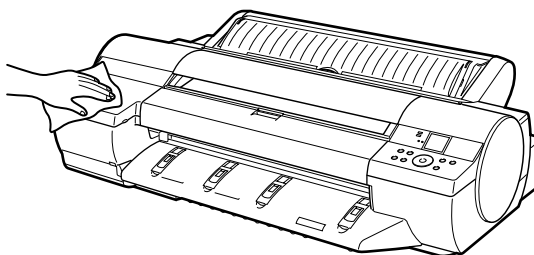
T-5-6

Level	Periodic maintenance
User	Cleaning of ink mist and other substances(about once each month Spur cleaning
Service personnel	None

a) Printer cleaning

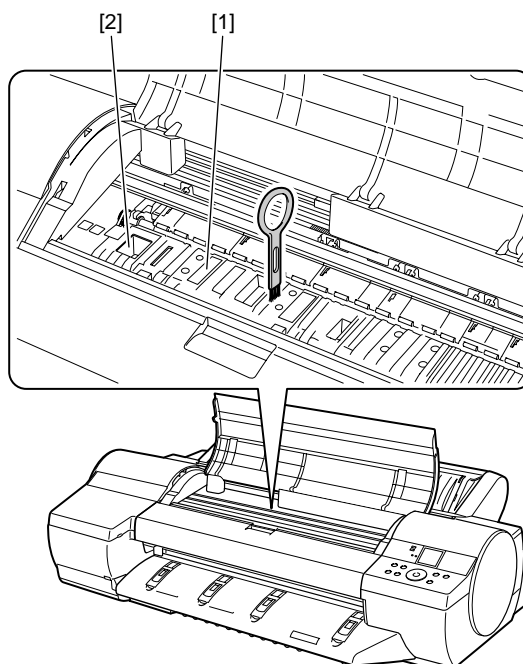
To keep up with print quality and prevent troubles, clean the printer about once each month.

- 1) Wipe the external surfaces of the printer with a cloth moistened with water and then wrung tight and then dry them finally with a dry cloth.



F-5-1

- 2) Press the [MENU] button to display the main menu.
- 3) Press the ▲ and ▼ buttons to select [Maintenance] and then press the ► button.
- 4) Press the ▲ and ▼ buttons to select [Platen Cleaning] and press the ► button.
- 5) Press the ▲ and ▼ buttons to select [Yes] and press [OK] button.
- 6) Open the top cover.
- 7) If the paper dust has accumulated in the suction holes[1] on the platen or in the borderless printing ink grooves[2], use the cleaning brush, provided with the printer, to wipe it away.

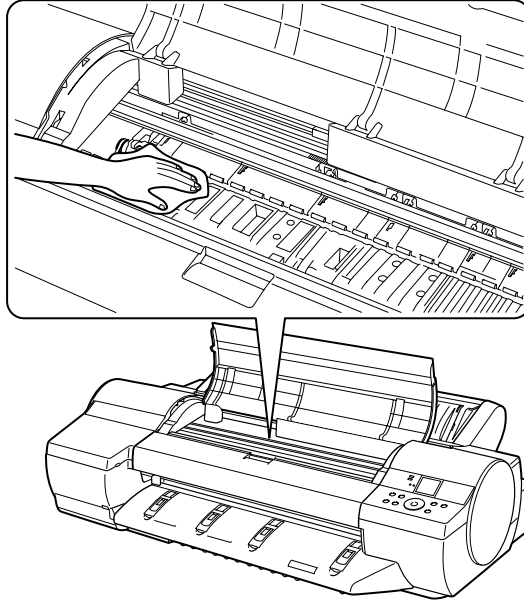


F-5-2

MEMO:

Rinse the cleaner brush with water when it gets dirty.

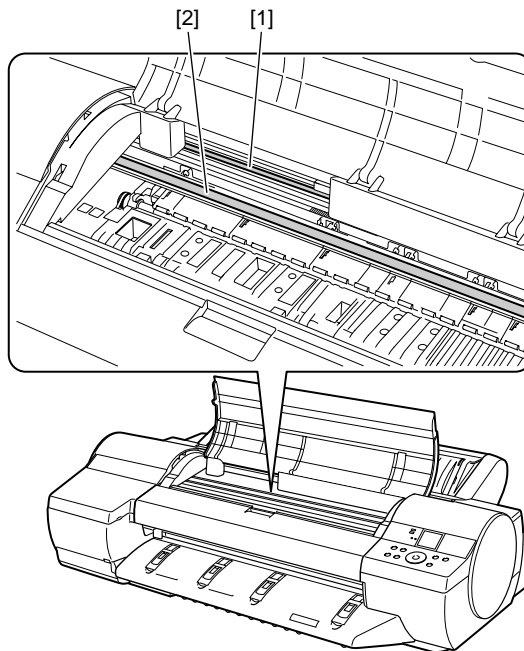
8) Wipe off dirt inside the top cover with a cloth moistened with water and then wrung tight. Wipe off ink smears from the entire surface of the platen, the pinch roller unit, borderless printing ink grooves and all else that is accessible.



F-5-3

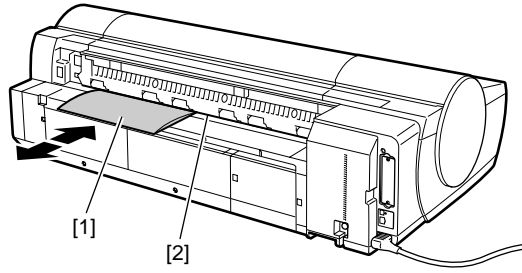


- Do not dry the interiors of the top cover with a dry cloth. Electrostatic charges could make the internal components susceptible to dirt, resulting in degraded print quality.
- Do not use flammable solvents, such as thinner and benzene, on the printer. Solvents coming into contact with any electrical parts inside the printer could result in fires or electrical shock hazards.
- Do not touch linear scale [1] and carriage shaft [2].



F-5-4

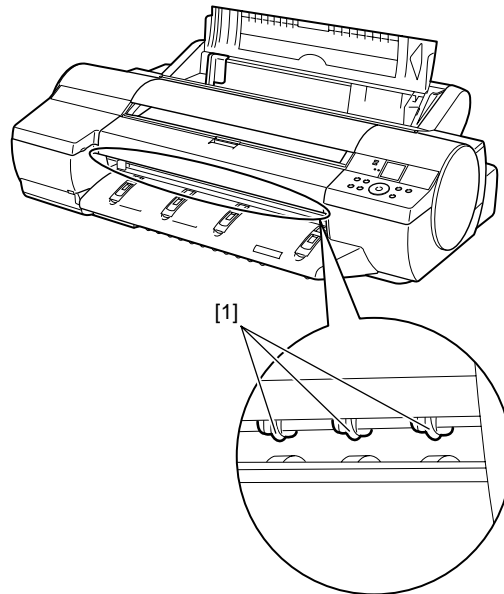
9) Remove the roll feed unit and fold plain paper [1] two to three times and then insert through the printer rear into the underside [2] of the pinch roller unit to wipe off dirt on the pinch roller unit.



F-5-5

b) Spur cleaning

If white dots appear about 1mm apart in the paper feed direction, clean the spur[1].
To clean the spur[1], use the cleaning sheet bundled with the unit.

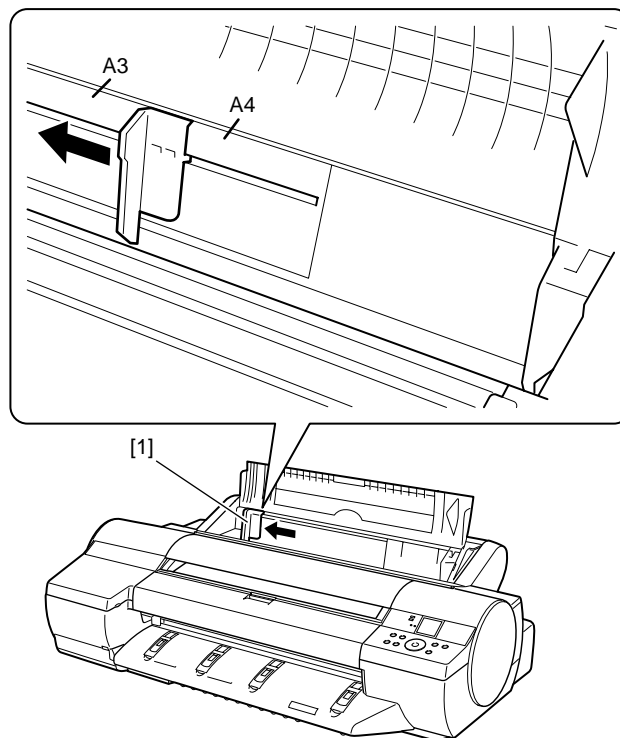


F-5-6



- Do not fold the cleaning sheet.
- Do not use a cleaning sheet with rugged edges or a significantly folded cleaning sheet.
- If the cleaning sheet is warped, flatten it before use.
- To cancel cleaning, press the [STOP] button.

- 1) Press the [MENU] button to display the main menu.
- 2) Press the ▲ and ▼ buttons to select [Maintenance] and press the ► button.
- 3) Press the ▲ and ▼ buttons to select [Spur Cleaning] and press the ► button.
- 4) Press the ▲ and ▼ buttons to select [Yes] and press the [OK] button.
If roll media are fed, they are ejected automatically.
- 5) Open the paper tray cover.
- 6) Pinching width guide [1], move it to the leftmost end.



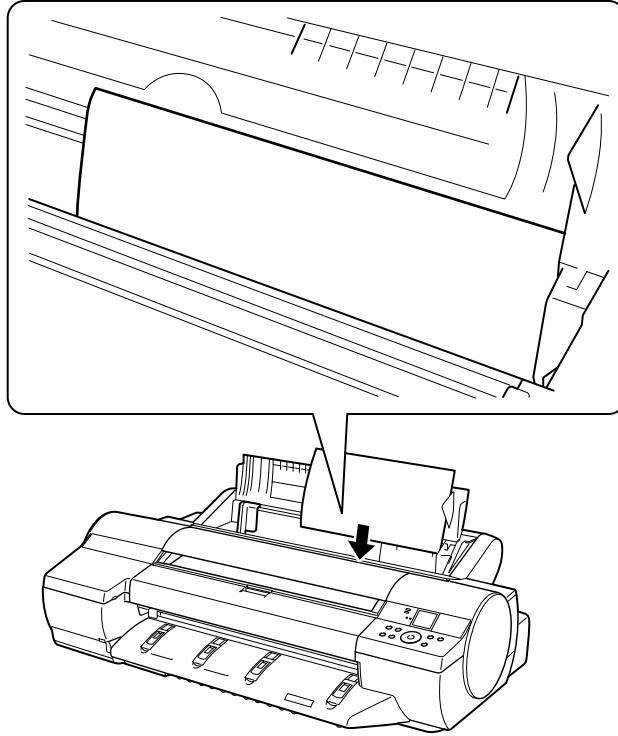
F-5-7

- 7) Take the cleaning sheet out of the bag.



Keep the bag in a safe place, because it is used for cleaning sheet.

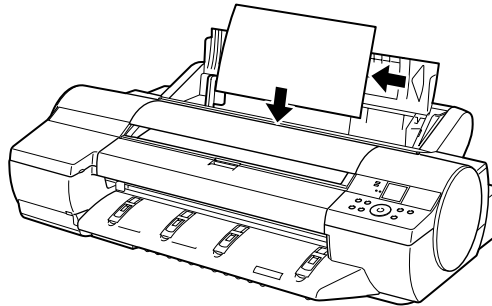
- 8) Set a cleaning sheet at the cleaning point at paper tray top loading port, in landscape direction, blank side up.
Insert the cleaning sheet into position until it lightly hits the end.



F-5-8

MEMO:

If the cleaning position exceeds the sheet size, perform cleaning in several sessions, each with a varied cleaning sheet setting position.



F-5-9

- 9) Press the [OK] button to start cleaning.
Cleaning takes about 1 minute 30 seconds to complete.
10) When the cleaning session completes, store the cleaning sheet in the bag.
11) Close the paper tray cover.

5.3.2 Periodic Maintenance

iPF6000S

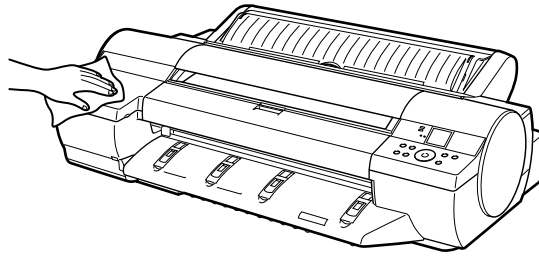
T-5-7

Level	Periodic maintenance
User	Cleaning of ink mist and other substances (about once each month)
Service personnel	None

a) Printer cleaning

To keep up with print quality and prevent troubles, clean the printer about once each month.

1) Wipe the external surfaces of the printer with a cloth moistened with water and then wrung tight and then dry them finally with a dry cloth.



F-5-10

2) Press the [MENU] button to display the main menu.

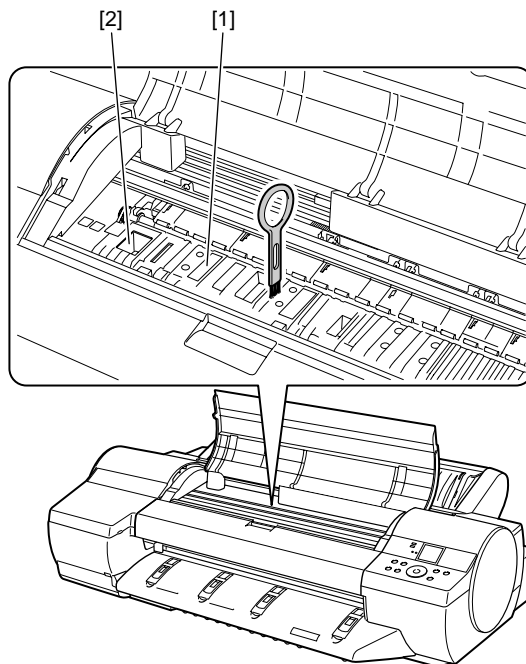
3) Press the ▲ and ▼ buttons to select [Maintenance] and then press the ► button.

4) Press the ▲ and ▼ buttons to select [Platen Cleaning] and press the ► button.

5) Press the ▲ and ▼ buttons to select [Yes] and press [OK] button.

6) Open the top cover.

7) If the paper dust has accumulated in the suction holes[1] on the platen or in the borderless printing ink grooves[2], use the cleaning brush, provided with the printer, to wipe it away.

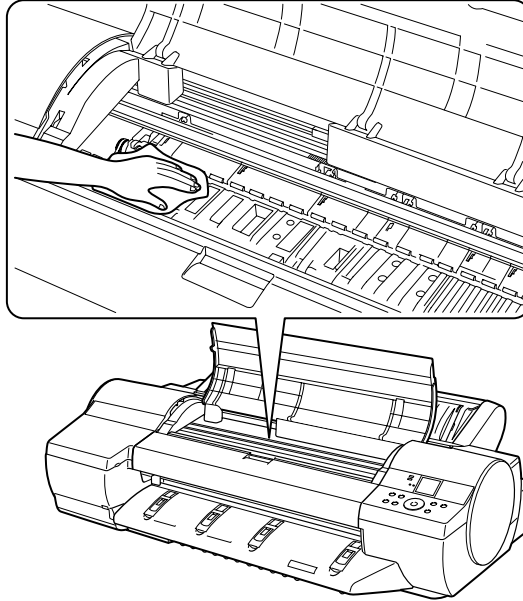


F-5-11

MEMO:

Rinse the cleaner brush with water when it gets dirty.

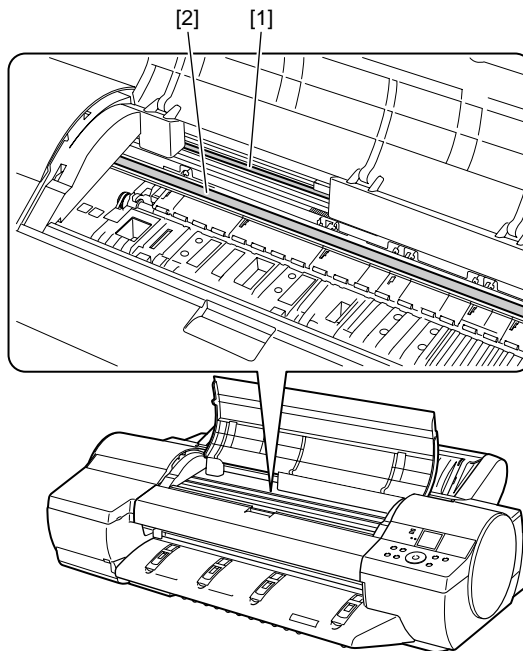
8) Wipe off dirt inside the top cover with a cloth moistened with water and then wrung tight. Wipe off ink smears from the entire surface of the platen, the pinch roller unit, borderless printing ink grooves and all else that is accessible.



F-5-12

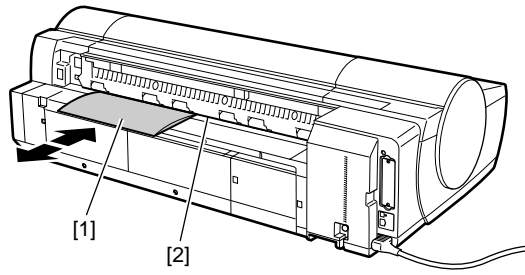


- Do not dry the interiors of the top cover with a dry cloth. Electrostatic charges could make the internal components susceptible to dirt, resulting in degraded print quality.
- Do not use flammable solvents, such as thinner and benzene, on the printer. Solvents coming into contact with any electrical parts inside the printer could result in fires or electrical shock hazards.
- Do not touch linear scale [1] and carriage shaft [2].



F-5-13

9) Remove the roll feed unit and fold plain paper [1] two to three times and then insert through the printer rear into the underside [2] of the pinch roller unit to wipe off dirt on the pinch roller unit.



F-5-14

5.3.3 Periodic Maintenance

iPF6300 / iPF6350 / iPF6300S

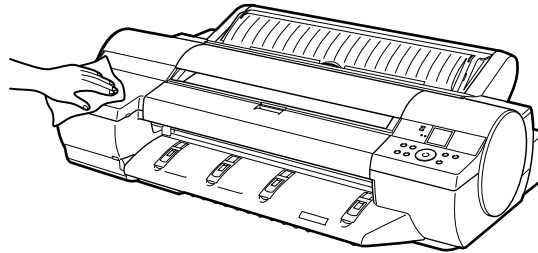
T-5-8

Level	Periodic maintenance
User	Cleaning of ink mist and other substances(about once each month)
Service personnel	None

a) Printer cleaning

To keep up with print quality and prevent troubles, clean the printer about once each month.

- 1) Wipe the external surfaces of the printer with a cloth moistened with water and then wrung tight and then dry them finally with a dry cloth.



F-5-15

- 2) On the tab selection screen of the control panel, press ◀ or ▶ buttons to select the [Settings/Adj. tab]

- 3) Press [OK] button.

The [Set./Adj. Menu] is displayed.

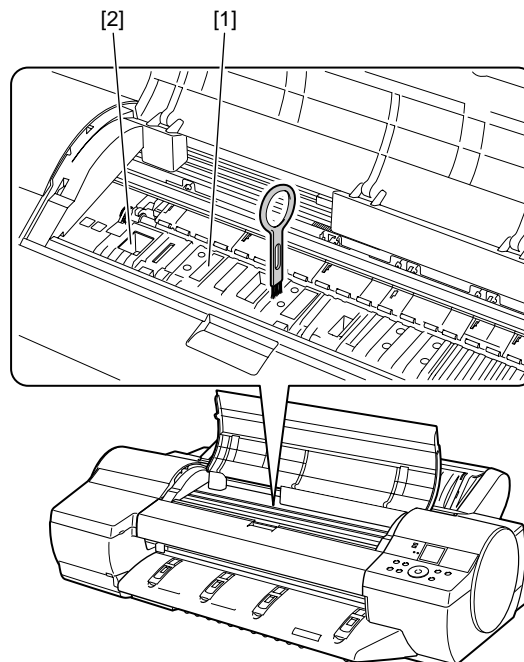
- 4) Press ▲ or ▼ buttons to select the [Maintenance] and then press [OK] button.

- 5) Press ▲ or ▼ buttons to select the [Clean Platen], and then press [OK] button.

A message on the display screen requests you to open the top cover.

- 6) Open the top cover.

- 7) If the paper dust has accumulated in the suction holes[1] on the platen or in the borderless printing ink grooves[2], use the cleaning brush, provided with the printer, to wipe it away.

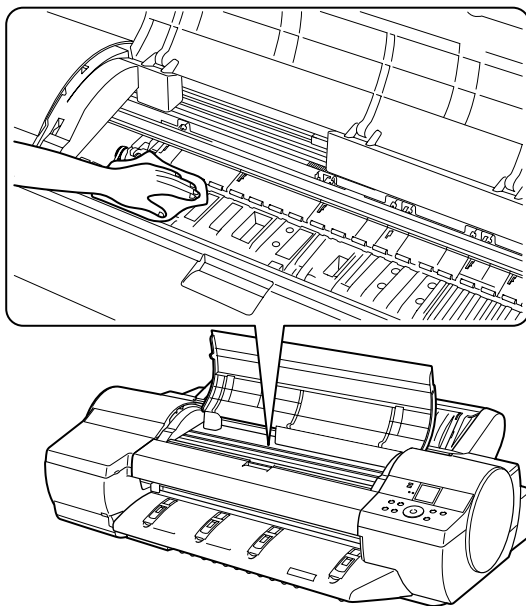


F-5-16

MEMO:

Rinse the cleaner brush with water when it gets dirty.

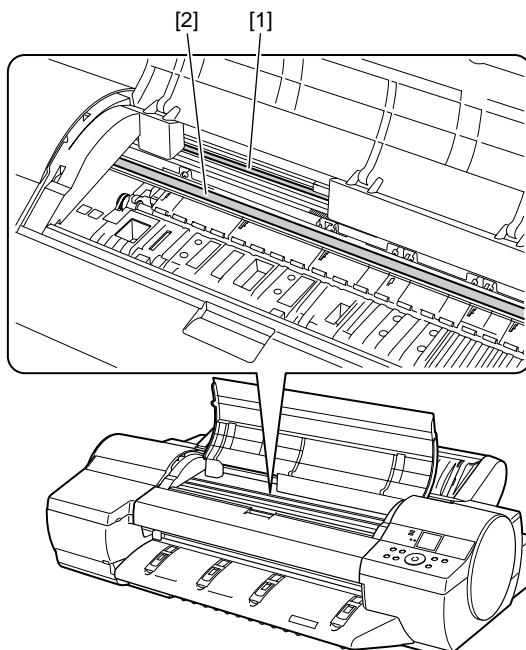
8) Wipe off dirt inside the top cover with a cloth moistened with water and then wrung tight. Wipe off ink smears from the entire surface of the platen, the pinch roller unit, borderless printing ink grooves, blue switch and all else that is accessible.



F-5-17



- Do not dry the interiors of the top cover with a dry cloth. Electrostatic charges could make the internal components susceptible to dirt, resulting in degraded print quality.
- Do not use flammable solvents, such as thinner and benzene, on the printer. Solvents coming into contact with any electrical parts inside the printer could result in fires or electrical shock hazards.
- Do not touch linear scale [1] and carriage shaft [2].



F-5-18

9) Close the top cover.

Chapter 6 TROUBLESHOOTING

Contents

6.1 Troubleshooting	6-1
6.1.1 Outline.....	6-1
6.1.1.1 Outline of Troubleshooting	6-1
6.1.2 Troubleshooting When Warnings Occur	6-1
6.1.2.1 Ink Lvl: Chk XX (1000,1001,1002,1003,1004,1005,1006,1008,1009,100A,100B,100C)	6-1
6.1.2.2 MTCart Full Soon (1100).....	6-1
6.1.2.3 Mist Full Soon (1101)	6-1
6.1.2.4 GARO W12xx: xx stands for digits (1221,1222,1223,1225,1231,1232,1233,1234,1235)	6-1
6.1.2.5 Feed Limit... (100F)	6-2
6.1.2.6 Check printed document.(1010).....	6-2
6.1.3 Troubleshooting When Errors Occur	6-2
6.1.3.1 01800500-1012/01800500-1013 Defective printhead nozzle.....	6-2
6.1.3.2 03010000-200C/03010000-2017/03010000-2018/03016000-2010 Multi sensor error.....	6-2
6.1.3.3 03010000-200D Cut sheet end cannot be detected	6-2
6.1.3.4 03010000-2820/03010000-2821/03010000-2822/03010000-2823/03130031-2F32/03010000-2F33 Adjustment error	6-3
6.1.3.5 03010000-2E1F/03060000-2E14/03061000-2E15/03060000-2E16/03060200-2E03/03060200-2E0B/03060A00-2E00/03060A00-2E01/ 03860002-2E0A Path mismatch error.....	6-3
6.1.3.6 03010000-2E25/03010000-2E27 Paper feed/delivery jam error	6-3
6.1.3.7 03030000-2E21 IEEEE1394 error.....	6-4
6.1.3.8 03060A00-2E0E Roll media unit uninstallation	6-4
6.1.3.9 03060A00-2E1B Roll media end error	6-4
6.1.3.10 03130031-291B Lift home position error	6-4
6.1.3.11 03130031-291D Supr cam sensor error	6-5
6.1.3.12 03130031-2E23 Cutter unit breakdown	6-5
6.1.3.13 03130031-2F13 A/D Converter external trigger output stopped	6-5
6.1.3.14 03130031-2F14 ASIC Register cannot be written.....	6-5
6.1.3.15 03130031-2F16 Mist fan error.....	6-5
6.1.3.16 03130031-2F17 Suction fan error	6-6
6.1.3.17 03130031-2F20/03130031-2F28/03130031-2F22/03130031-2F23 Defective sensor in purge unit	6-6
6.1.3.18 03130031-2F24 Cutter drive time-out error.....	6-6
6.1.3.19 03130031-2F25 Carriage home position error.....	6-6
6.1.3.20 03130031-2F26/03130031-2F27 Carriage motor error	6-7
6.1.3.21 03130031-2F2A Feed roller home position error	6-7
6.1.3.22 03130031-2F2D The cassette cannot work.....	6-7
6.1.3.23 03130031-2F2E Roll drive time-out error	6-7
6.1.3.24 03130031-2F3A Valve open/close error.....	6-8
6.1.3.25 03180003-2E22 MIT error.....	6-8
6.1.3.26 03180101-2E17 Cassette uninstallation.....	6-8
6.1.3.27 03800200-2802/03800400-2803/03800300-2801/03800201-280A/03800401-280B/03800301-2809/03800200-2804/03800202-2807/ Printhead error.....	6-8
6.1.3.28 03810101-2501/03810102-2502/03810103-2503/03810104-2500/03810105-2508/03810106-2506/03810107-250A/03810108-250C/ 03810109-250B/03810112-2504/03810113-2505/03810115-2509 No ink error.....	6-9
6.1.3.29 03830101-2521/03830104-2520/03830102-2522/03830103-2523/03830112-2524/03830113-2525/03830106-2526/03830105-2528/ 03830115-2529/03830107-252A/03830109-252B/03830108-252C Ink tank is not installed.(This error occurs when the ink tank is replaced.).6- 9	6-9
6.1.3.30 03830201-2541/03800204-2540/03830202-2542/03830203-2543/03830212-2544/03830213-2545/03830206-2546/03830205-2548/ 03830215-2549/03830207-254A/03830209-254B/03830208-254C Invalid ink tank ID	6-9
6.1.3.31 03830301-2561/03830304-2560/03830302-2562/03830303-2563/03830312-2564/03830313-2565/03830306-2566/03830305-2568/ 03830305-2568/03830315-2569/03830307-256A/03830309-256B/03830308-256C Ink tank EEPROM error	6-9
6.1.3.32 03841001-2819/03841201-2816/03841201-2817/03841101-2818/01841001-281B Maintenance cartridge error	6-9
6.1.3.33 03861001-2405/03861001-2406 Borderless printing error	6-10
6.1.3.34 03862000-2E09 Insufficient roll media error	6-10
6.1.3.35 03870001-2015 Cut error.....	6-10
6.1.4 Troubleshooting When Service Call Errors Occur	6-10
6.1.4.1 Outline.....	6-10
6.1.4.2 E141-4046 Recovery system rotation count reached 50,000.....	6-11

6.1.4.3 E144-4047 Supply system's count error	6-11
6.1.4.4 E146-4001 Borderless/idle ejection/mist collection count full.....	6-11
6.1.4.5 E194-404A Non-discharge detection count error.....	6-11
6.1.4.6 E196-4040/E196-4041/E196-4042/E196-4045/E196-4049 main controller PCB error	6-11
6.1.4.7 E198-401C/E198-401D/E198-401E RTC error	6-11
6.2 Location of Connectors and Pin Arrangement	6-12
6.2.1 Main controller PCB	6-12
6.2.2 Main controller PCB	6-24
6.2.3 Main controller PCB	6-35
6.2.4 Main controller PCB	6-46
6.2.5 Main controller PCB	6-57
6.2.6 Carriage PCB	6-68
6.2.7 Power supply.....	6-77
6.2.8 Power supply.....	6-78
6.2.9 Roll feed unit PCB	6-79
6.3 Version Up	6-80
6.3.1 Firmware Update Tool.....	6-80
6.3.2 Firmware Update Tool.....	6-81
6.4 Service Tools.....	6-82
6.4.1 Tool List.....	6-82

6.1 Troubleshooting

6.1.1 Outline

6.1.1.1 Outline of Troubleshooting

iPF6100 / iPF6200 / iPF6000S / iPF6300 / iPF6350 / iPF6300S

1. Outline

Troubles subject to troubleshooting are classified into those shown on the display (warning, error, and service call) and those not shown on the display.

2. Precautions for Troubleshooting

- 1) Check the environmental conditions and the media used for printing.
 - 2) Before performing troubleshooting, make sure that all connectors and cables are connected properly.
 - 3) When servicing the printer with the external cover removed and the AC power supplied, be extremely careful to avoid electric shock and shorting electrical devices.
 - 4) In the following sections, the troubleshooting steps are described such that the component related to the most probable cause of the problem will be repaired or replaced first, being followed by components with less problem probability. If multiple components have the same problem probability, the steps are described beginning with the easiest one.
- After performing each step, check to see if the problem has been resolved by making test prints. If the problem persists, proceed to the next step.
- 5) After completion of the troubleshooting, check that all connectors and cables have been reconnected and screws have been tightened firmly.
 - 6) Whenever you have performed replacement or repair services, make test prints to check whether the problem has been resolved.

6.1.2 Troubleshooting When Warnings Occur

6.1.2.1 Ink Lvl: Chk XX (1000,1001,1002,1003,1004,1005,1006,1008,1009,100A,100B,100C)

iPF6000

XX stands for an ink name.

When a warning occurs, no code number is displayed. To view the warning history, select SERVICE MODE > DISPLAY > WARNING.

<Cause>

The electrodes attached to the hollow needle in the ink tank unit has detected that the ink level lowered below the specified one.

<Probable problem locations>

Ink tank, ink tank unit, main controller

<Remedy>

1. Check the ink level.
2. Replace the ink tank.
3. Check the connector of the ink tank unit.
4. Replace the ink tank unit.
5. Replace the main controller.

6.1.2.2 MTCart Full Soon (1100)

iPF6000

<Cause>

The maintenance cartridge is nearly full of waste ink (about 80% of the total capacity of the maintenance cartridge).

<Probable problem locations>

Maintenance cartridge, main controller

<Remedy>

1. Maintenance cartridge
Select SERVICE MODE > COUNTER > PRINTER > 1-INK to check the free space in the maintenance cartridge. If there is almost no free space, replace the maintenance cartridge.
2. Replace the main controller

6.1.2.3 Mist Full Soon (1101)

iPF6000

<Cause>

The waste ink in the waste ink box is nearly full (about 97% of the total capacity).

<Probable problem locations>

waste ink box, main controller

<Remedy>

1. Replace the waste ink box.
After replacing the waste ink box, select SERVICE MODE > INITIALIZE > PARTS COUNTER > PARTS VI to reset the waste ink counter.
2. Replace the main controller

6.1.2.4 GARO W12xx: xx stands for digits (1221,1222,1223,1225,1231,1232,1233,1234,1235)

iPF6000

<Cause>

The GARO command was erroneous during data reception.

<Probable problem locations>

Operation error, main controller

<Remedy>

1. Check the operation method and print again.
2. Replace the main controller.

6.1.2.5 Feed Limit... (100F)

iPF6000

<Cause>

The main controller has detected that the roll media was fed by the maximum amount in the manual feed mode.
Maximum feed amount in reverse feed mode: Printing standby position (on feed roller)

<Probable problem locations>

Main controller

<Remedy>

1. Replace the main controller.

6.1.2.6 Check printed document.(1010)

iPF6000

<Cause>

Many nozzle on printhead did not eject ink.

<Probable fault location>

Printhead

<Countermeasure>

1. The printhead is cleaned.
2. Replace the printhead.

6.1.3 Troubleshooting When Errors Occur

6.1.3.1 01800500-1012/01800500-1013 Defective printhead nozzle

iPF6000

<Cause>

Many non-discharging nozzles of the printhead(L) were detected.
Many non-discharging nozzles of the printhead(R) were detected.

<Probable fault location>

Printhead or head management sensor

<Countermeasure>

1. Clean the printhead.
2. Replace the printhead.
3. Replace the head management sensor.

6.1.3.2 03010000-200C/03010000-2017/03010000-2018/03016000-2010 Multi sensor error

iPF6000

<Cause>

When media was fed, the multi sensor could not detect the media width.
When the right edge of media was detected, the multi sensor detected that the media had been loaded at a wrong position.
When the leading edge of media was to be detected, the multi sensor could not detect the leading edge of media.
When media was fed, the multi sensor detected media smaller than the specified size.
When media was fed, the multi sensor detected media larger than the specified size.
When media was fed, the multi sensor detected skew greater than the specified one.
When media was fed, the multi sensor could not detect the right edge of media.
When media was fed, the multi sensor could not detect the left edge of media.

<Probable fault location>

Media, media loading method, paper path, multi sensor, carriage PCB, or main controller PCB

<Countermeasure>

1. Media check
If there is any print or stain in the detection area on the media or the media size is not the specified one, replace the media.
2. Media loading position check
If the media loading position is wrong, load the media again.
3. Visual check
Remove foreign substances from multi sensor if any.
4. Multi sensor
Select [SERVICE MODE]>[DISPLAY]>[SYSTEM]>[SIZE CR] to check the value read by the multi sensor. If the value is wrong, replace the multi sensor.
5. Cable continuity check
If continuity of the cable between the head relay PCB and the carriage relay PCB is abnormal, replace the cable.
6. Replace the Carriage PCB
7. Cable continuity check
If continuity of the cable between the carriage PCB and the main controller PCB is abnormal, replace the cable.
8. Replace the main controller PCB.

6.1.3.3 03010000-200D Cut sheet end cannot be detected

iPF6000

<Cause>

When cut media was fed by the specified length, the media sensor could not detect the trailing edge of the cut media.
During printing, the media sensor detected the trailing edge of the cut media at the position different from that detected during cut media feed.

<Probable fault location>

Paper path, media sensor, or main controller PCB

<Countermeasure>

1. Visual check
Remove foreign substances from the paper path and media sensor if any.
If the paper feed surface or moving part of the paper path is damaged or deformed, replace the paper path.
2. Media sensor
Check the media sensor for normal operation. If the operation is abnormal, replace the media sensor.
3. Cable continuity check
If continuity of the cable between the media sensor and the main controller PCB is abnormal, replace the cable.
4. Replace the main controller PCB.

6.1.3.4 03010000-2820/03010000-2821/03010000-2822/03010000-2823/03130031-2F32/03010000-2F33 Adjustment error

iPF6000

<Cause>

Auto head alignment selected from the user menu could not be carried out because the alignment pattern read result was NG.
Auto LF adjustment selected from the user menu or in the service mode could not be carried out because the adjustment pattern read result was NG.
Decentering correction selected in the service mode cannot be carried out because the correction pattern read result was NG.
Auto LF adjustment selected from the user menu or in the service mode could not be carried out because the head check pattern read result was NG.



When adjustment has been carried out after selecting [SERVICE MODE]>[ADJUST]>[PRINT PATTERN]>[OPTICAL AXIS] or [SERVICE MODE]>[ADJUST]>[PRINT PATTERN]>[LF TUNING] in the service mode, check that photo glossy paper is used.

<Probable fault location>

Operation method, printhead, multi sensor, carriage PCB, or main controller PCB

<Countermeasure>

1. Check whether the media type selected on the operation panel is the same as the type of the media used to print the adjustment pattern.
If they are different, retry adjustment using the media of the type selected on the operation panel.
2. If ink bleeds greatly, change the media.
3. Carry out head cleaning, and retry adjustment. If the adjustment result is poor, replace the printhead.
4. Replace the multi sensor, and then retry adjustment.
5. Cable continuity check
If continuity of the cable between the multi sensor and the main controller PCB is abnormal, replace the cable.
6. Replace the carriage PCB.
7. Cable continuity check
If continuity of the cable between the carriage PCB and the main controller PCB is abnormal, replace the cable.
8. Replace the main controller PCB.

6.1.3.5 03010000-2E1F/03060000-2E14/03061000-2E15/03060000-2E16/03060200-2E03/03060200-2E0B/03060A00-2E00/03060A00-2E01/03860002-2E0A Path mismatch error

iPF6000

<Cause>

The size of the media used to print the adjustment pattern was smaller than the specified one.
No roll media was loaded when data was received with roll media specified as a media type.
No roll media was loaded when test printing.
No cut sheet was loaded in the cassette when data was received with cut sheet specified as a media type.
Data requiring roll media was received when cut sheet was loaded.
Data requiring cut sheet was received when roll media was loaded.
No roll media was loaded when data was different from the size of the actually loaded media.
The type of the loaded media was different from the media type specified using the driver.
The size of the loaded media in the cassette was different from the media size specified using the driver.

<Probable fault location>

Media type or main controller PCB

<Countermeasure>

1. Media check
Check the loaded media. If the media type is different from that required by the send data, no media is loaded, or the size of the loaded media is not the specified one, load correct media.
2. Replace the main controller PCB.

6.1.3.6 03010000-2E25/03010000-2E27 Paper feed/delivery jam error

iPF6000

<Cause>

During paper feed or delivery, paper jammed or paper was fed improperly.
During printing, paper was fed out of the way.

<Probable fault location>

paper path, media sensor, or main controller

<Countermeasure>

1. Visual check
Remove foreign substances from the paper path and media sensor if any.
If the paper feed surface or moving part of the paper path is damaged or deformed, replace the paper path.
2. Media sensor

- Select [SERVICE MODE]>[I/O DISPLAY] to check the media sensor for normal operation. If the operation is abnormal, replace the media sensor.
3. Cable continuity check
If continuity of the cable between the media sensor and the main controller PCB is abnormal, replace the cable.
 4. Replace the main controller PCB.

6.1.3.7 03030000-2E21 IEEE1394 error

iPF6000

<Cause>

The IEEE1394 interface is faulty.

<Probable fault location>

IEEE1394 interface board or main controller PCB.

<Countermeasure>

1. Turn off the printer, and then turn it on again.
2. IEEE1394 interface board
Remove the IEEE1394 interface board, nstall it again, and then turn on the printer, If the trouble persists, replace the IEEE1394 interface board.
3. Replace the main controller PCB.

6.1.3.8 03060A00-2E0E Roll media unit uninstallation

iPF6000

<Cause>

The auto roll feed unit cannot be detected.

<Probable fault location>

Roll feed unit PCB, connector, or main controller PCB

<Countermeasure>

1. Cable continuity check
If continuity of the cable between the roll feed unit PCB and the connector is abnormal, replace the cable.
2. Cable continuity check
If continuity of the cable between the connector and the main controller PCB is abnormal, replace the cable.
3. Replace the roll feed unit PCB.
4. Replace the connector.
5. Replace the main controller PCB.

6.1.3.9 03060A00-2E1B Roll media end error

iPF6000

<Cause>

During printing or roll media feed, the media sensor detected the end of the roll media.

<Probable fault location>

Roll media, roll media sensor, roll feed unit PCB, or main controller PCB.

<Countermeasure>

1. Roll media
If roll media is used up, load new roll media.
2. Roll media sensor
Select [SERVICE MODE]>[I/O DISPLAY] to check for normal operation. If the operation is abnormal, replace the media sensor.
3. Cable continuity check
If continuity of the cable between the roll media sensor and the roll feed unit PCB is abnormal, replace the cable.
4. Replace the roll feed unit PCB.
5. Cable continuit check
If continuity of the cable between the roll feed unit PCB and the main controller PCB is abnormal, replace the cable.
6. Replace the main controller PCB.

6.1.3.10 03130031-291B Lift home position error

iPF6000

<Cause>

The Lift home position could not be detected within the specified time.

<Probable fault location>

Lift drive unit, lift cam sensor, lift motor, or main controller PCB

<Countermeasure>

1. Visual check
Remove foreign substances from the lift drive unit if any.
2. Lift cam sensor
Select [SERVICE MODE]>[I/O DISPLAY] to check for normal operation. If the operation is abnormal, replace the lift cam sensor
3. Cable continuity check
If continuity of the cable between the lift cam sensor, lift motor and main controller PCB is abnormal, replace the cable.
4. Replace the lift motor.
5. Replace the main controller PCB.

6.1.3.11 03130031-291D Supr cam sensor error

iPF6000

<Cause>

It failed in the detection of the spur cam sensor.

<Probable fault location>

Spur unit, spur cam sensor, or main controller PCB

<Countermeasure>

1. Visual check
Remove foreign substances from the spur unit if any.
2. Spur cam sensor
Select [SEVECE MODE]>[I/O DISPLAY] to check for normal operation. If the operation is abnormal, replace the feed roller HP sensor.
3. Cable continuity check
If continuity of the cable between the spur cam sensor and the main controller PCB is abnormal, replace the cable.
4. Replace the spur motor.
5. Replace the spur unit.
6. Replace the main controller PCB.

6.1.3.12 03130031-2E23 Cutter unit breakdown

iPF6000

<Cause>

Abnormality occurred in the cutter unit.

<Probable fault location>

Cutter unit, Cutter HP sensor, cutter right position sensor, cutter lift sensor, cutter motor, cutter driver PCB, or main controller PCB

<Countermeasure>

1. Visual check
Remove foreign substances from the cutter unit if any.
2. Cutter home position sensor
Select [SERVICE MODE]>[I/O DISPLAY] to check for normal operation. If the operation is abnormal, replace the cutter home position sensor.
3. Cutter right position sensor
Select [SERVICE MODE]>[I/O DISPLAY] to check for normal operation. If the operation is abnormal, replace the cutter right position sensor.
4. Cutter lift sensor
Select [SERVICE MODE]>[I/O DISPLAY] to check for normal operation. If the operation is abnormal, replace the cutter lift sensor.
5. Cable continuity check
If continuity of the cable between the cutter HP sensor, cutter right position sensor, cutter lift sensor, cutter motor and cutter driver PCB is abnormal, replace the cable.
6. Replace the cutter motor.
7. Replace the cutter driver PCB.
8. Replace the cutter unit.
9. Cable continuity check
If continuity of the cable between the cutter driver PCB and the main controller PCB is abnormal, replace the cable.
10. Replace the main controller PCB.

6.1.3.13 03130031-2F13 A/D Converter external trigger output stopped

iPF6000

<Cause>

Defective main controller PCB

<Probable fault location>

Main controller PCB

<Countermeasure>

1. main controller PCB

6.1.3.14 03130031-2F14 ASIC Register cannot be written.

iPF6000

<Cause>

A main controller PCB firm ware error occurred.

<Probable fault location>

main controller PCB

<Countermeasure>

1. Turn off the printer, and then turn it off again.
2. Replace the main controller PCB.

6.1.3.15 03130031-2F16 Mist fan error

iPF6000

<Cause>

Mist fan rotation could not be detected during mist fan rotation.

<Probable fault location>

Mist fan or main controller PCB

<Countermeasure>

1. Replace the mist fan.
2. Cable continuity check
If continuity of the cable between the mist fan and the main controller PCB is abnormal, replace the cable.
3. Replace the main controller PCB.

6.1.3.16 03130031-2F17 Suction fan error

iPF6000

<Cause>

When the suction fan was driven, the lock signal was detected for more the specified time.

<Probable fault location>

Suction fan or main controller PCB

<Countermeasure>

1. suction fan
Select [SERVICE MODE]>[FUNCTION]>[PLATEN FAN] to check the suction fan for normal operation. If the operation is abnormal, replace the suction fan.
2. Cable continuity check
If continuity of the cable between the suction fan and the main controller PCB is abnormal, replace the cable.
3. Replace the main controller PCB.

6.1.3.17 03130031-2F20/03130031-2F28/03130031-2F22/03130031-2F23 Defective sensor in purge unit

iPF6000

<Cause>

The pump cam sensor in the purge unit could not detect the home position of the purge motor within the specified time.

<Probable fault location>

Purge unit or main controller PCB

<Countermeasure>

1. Cable continuity check
If continuity of the cable between the pump cam sensor, pump motor and main controller PCB is abnormal, replace the cable.
2. Replace the purge unit.
3. Replace the main controller PCB.

6.1.3.18 03130031-2F24 Cutter drive time-out error

iPF6000

<Cause>

After the cutter motor was driven of the cutter unit, cutter right detection sensor or cutter HP sensor ON was not able to be detected in the regulation time.

<Probable fault location>

Cutter right position sensor, cutter HP sensor, cutter motor, cutter unit, cutter driver PCB, or main controller PCB

<Countermeasure>

1. Visual check
Remove foreign substances from the cutter unit if any.
2. Cutter right position sensor and cutter HP sensor
Select [SERVICE MODE]>[I/O DISPLAY] to check for normal operation. If the operation is abnormal, replace the feed roller HP sensor.
3. Cable continuity check
If continuity of the cable between the cutter right position sensor, the cutter HP sensor, the cutter motor and the cutter driver PCB is abnormal, replace the cable.
4. Replace the cutter motor.
5. Replace the cutter unit.
6. Replace the cutter driver PCB.
7. Cable continuity check
If continuity of the cable between the cutter driver PCB and the main controller PCB is abnormal, replace the cable.
8. Replace the main controller PCB.

6.1.3.19 03130031-2F25 Carriage home position error

iPF6000

<Cause>

The carriage home position could not be detected within the specified time.

<Probable fault location>

Carriage stopper, linear scale, linear encoder, carriage PCB, or main controller PCB.

<Countermeasure>

1. Visual check
Remove foreign substances from the carriage stopper, the linear scale and linear encoder if any.
2. Replace the linear scale.
3. Replace the linear encoder.
4. Cable continuity check
If continuity of the cable between the linear encoder and the carriage PCB is abnormal, replace the cable.
5. Replace the carriage PCB.
6. Cable continuity check
If continuity of the cable between the carriage PCB and the main controller PCB is abnormal, replace the cable.
7. Replace the main controller PCB.

6.1.3.20 03130031-2F26/03130031-2F27 Carriage motor error

iPF6000

<Cause>

The carriage did not operate because the carriage motor was overloaded due to a physical cause such as a jam.
The carriage motor did not reach the specified time.

<Probable fault location>

Carriage path way, carriage rail, carriage belt, linear scale, linear encoder, carriage motor, carriage PCB, or main controller PCB.

<Countermeasure>

1. Carriage pathway check
Remove foreign substances(jammed paper) from the carriage pathway if any.
2. Carriage rail
Visually check whether the carriage rail is dirty. If the carriage rail is dirty, clean it using rail cleaner.
3. Carriage belt
Visually check whether the carriage belt is loose.If the carriage belt is loose, remove it and then reinstall it.
4. Replace linear scale
5. Replace liner encoder
6. Cable continuity check
If continuity of the cable between the linear encoder and the main controller PCB is abnormal, replace the cable.
7. Replace carriage motor
8. Cable continuity check
If continuity of the cable between the carriage motor and the main controller PCB is abnormal, replace the cable.
9. Replace the carriage PCB
10. Cable continuity check
If continuity of the cable between the carriage PCB and the main controller PCB is abnormal, replace the cable.
11. Replace the main controller PCB.

6.1.3.21 03130031-2F2A Feed roller home position error

iPF6000

<Cause>

During power-on, the feed roller HP sensor could not detect that the reference of Scale that exists on encoder film area color change from transparent to black.

<Probable fault location>

Feed roller encoder film, feed roller HP sensor, feed motor, or main controller PCB

<Countermeasure>

1. Visual check
If the feed roller encoder film is damaged, replace it. Remove foreign substances from the feed roller encoder film if any.
2. Feed roller HP sensor
Select [SERVICE MODE]>[I/O DISPLAY] to check for normal operation. If the operation is abnormal, replace the feed roller HP sensor.
3. Cable continuity check
If continuity of the cable between the feed roller HP sensor, feed motor and the main controller PCB is abnormal, replace the cable.
4. Replace the feed motor.
5. Replace the main controller PCB.

6.1.3.22 03130031-2F2D The cassette cannot work.

iPF6000

<Cause>

The cassette cannot work.

<Probable fault location>

pressure plate arm, cassette cam sensor, cassette motor, or main controller PCB

<Countermeasure>

1. Visual check
If the pressure plate arm is abnormal, replace the pressure plate arm.
2. Cassette cam sensor
Select [SERVICE MODE]>[I/O DISPLAY] to check for normal operation, If the operation is abnormal, replace the valve motor.
3. Cable continuity check
If continuity of the cable between the cassette cam sensor, cassette motor and the main controller PCB is abnormal, replace the cable.
4. Replace the cassette motor.
5. Replace the main controller PCB.

6.1.3.23 03130031-2F2E Roll drive time-out error

iPF6000

<Cause>

The roll cam sensor home position in roll feed unit could not be detected within the specified time.

<Probable fault location>

roll cam drive unit, roll cam sensor, roll motor, Connector, roll feed unit PCB, or main controller PCB

<Ountermeasure>

1. Visual check
If the gear in roll cam drive unit is abnormal, replace the gear.
2. Roll cam sensor

- Select [SERVICE MODE]>[I/O DISPLAY] to check for normal operation. If the operation is abnormal, replace the roll cam sensor.
3. Cable continuity check
If continuity of the cable between the roll cam sensor, roll motor and roll feed unit PCB is abnormal, replace the cable.
 4. Replace the roll motor.
 5. Replace the roll feed unit PCB.
 6. Cable continuity check
If continuity of the cable between the roll feed unit PCB and main controller PCB is abnormal, replace the cable.
 7. Replace the connector.
 8. Replace the main controller PCB.

6.1.3.24 03130031-2F3A Valve open/close error

iPF6000

<Cause>

When the ink supply valve opened or closed, valve open/closed detection sensor could not detect the valve cam rotation.

<Probable fault location>

Valve open/closed detection sensor, valve motor, or main controller PCB

<Countermeasure>

1. Visual check
Remove foreign substances from the motor, gear, and sensor of the valve open/close mechanism if any.
2. Valve open/close detection sensor
Select [SERVICE MODE]>[I/O DISPLAY] to check for normal operation. If the operation is abnormal, replace the valve open/close detection sensor.
3. Valve motor
Select [SERVICE MODE]>[FUNCTION]>[INK VALVE] to check for normal operation. If the operation is abnormal, replace the valve motor.
4. Cable continuity check
If continuity of the cable between the valve open/close detection sensor, valve motor and main controller PCB is abnormal, replace the cable.
5. Replace main controller PCB.

6.1.3.25 03180003-2E22 MIT error

iPF6000

<Cause>

When set to cassette paper feed "No" with MIT, the job of the cassette specification was received.

<Probable fault location>

Main controller PCB

<Countermeasure>

1. Replace the main controller PCB.

6.1.3.26 03180101-2E17 Cassette uninstallation

iPF6000

<Cause>

The cassette has come off.

<Probable fault location>

Cassette detection sensor or main controller PCB

<Countermeasure>

1. Cassette detection sensor
Select [SERVICE MODE]>[I/O DISPLAY] to check for normal operation. If the operation is abnormal, replace the cassette detection sensor.
2. Cable continuity check
If continuity of the cable between the cassette detection sensor and the main controller PCB is abnormal, replace the cable.
3. Replace the main controller

6.1.3.27 03800200-2802/03800400-2803/03800300-2801/03800201-280A/03800401-280B/03800301-2809/03800200-2804/ 03800202-2807 Printhead error

iPF6000

<Cause>

Improper installation of the printhead(L) was detected.
A checksum error was detected in the EEPROM of the printhead(L).
Unable to correct printhead(L) DI.
Printhead(L) was installed right and left and oppositely.
Improper installation of the printhead(R) was detected.
A checksum error was detected in the EEPROM of the printhead(R).
Unable to correct printhead(R) DI.
Printhead(R) was installed right and left and oppositely.

<Probable fault location>

Printhead, carriage PCB, carriage unit, or main controller PCB.

<Countermeasure>

1. Replace the printhead.
2. Cable continuity check
If continuity of the cable between the carriage PCB and the main controller PCB is abnormal, replace the cable.
3. Replace the carriage PCB.
4. Replace the carriage unit.

5. Replace the main controller PCB.

**6.1.3.28 03810101-2501/03810102-2502/03810103-2503/03810104-2500/03810105-2508/03810106-2506/03810107-250A/
03810108-250C/03810109-250B/03810112-2504/03810113-2505/03810115-2509 No ink error**

iPF6000

<Cause>

No ink status was detected in the ink tank.

<Probable fault location>

Ink tank, ink tank unit, or main controller PCB

<Countermeasure>

1. Replace the ink tank.
2. Replace the ink tank unit.
3. Replace the main controller PCB.

**6.1.3.29 03830101-2521/03830104-2520/03830102-2522/03830103-2523/03830112-2524/03830113-2525/03830106-2526/
03830105-2528/03830115-2529/03830107-252A/03830109-252B/03830108-252C Ink tank is not installed.(This error
occurs when the ink tank is replaced.)**

iPF6000

<Cause>

When the ink tank was replaced, the closed state of the ink cover was detected with the ink tank removed.

<Probable fault location>

Operation method, ink tank, ink tank cover sensor, ink tank unit, or main controller PCB

<Countermeasure>

1. Operation check
 - Install the ink tank.
2. Visual check
 - Remove foreign substances from the ink tank contacts and ink cover sensor if any.
3. Replace the ink tank.
4. Ink tank cover sensor
 - Check for normal operation. If the operation is abnormal, replace the ink tank cover sensor.
5. Cable continuity check
 - If continuity of the cable between the ink tank cover sensor and the main controller PCB is abnormal, replace the cable.
6. Replace the ink tank unit.
7. Cable continuity check
 - If continuity of the cable between the ink tank unit and the main controller PCB is abnormal, replace the cable.
8. Replace the main controller PCB.

**6.1.3.30 03830201-2541/03800204-2540/03830202-2542/03830203-2543/03830212-2544/03830213-2545/03830206-2546/
03830205-2548/03830215-2549/03830207-254A/03830209-254B/03830208-254C Invalid ink tank ID**

iPF6000

<Cause>

The installed ink tank is wrong

<Probable fault location>

Ink tank, ink tank unit, or main controller PCB

<Countermeasure>

1. Replace the ink tank.
2. Replace the ink tank unit.
3. Replace the main controller PCB.

**6.1.3.31 03830301-2561/03830304-2560/03830302-2562/03830303-2563/03830312-2564/03830313-2565/03830306-2566/
03830305-2568/03830305-2568/03830315-2569/03830307-256A/03830309-256B/03830308-256C Ink tank EEPROM error**

iPF6000

<Cause>

An ink tank EEPROM checksum error was detected.

<Probable fault location>

Ink tank, ink tank unit, or main controller PCB

<Countermeasure>

1. Replace the ink tank.
2. Replace the ink tank unit.
3. Cable continuity check
 - If continuity of the cable between the ink tank unit and the main controller PCB is abnormal, replace the cable.
4. Replace the main controller PCB.

6.1.3.32 03841001-2819/03841201-2816/03841201-2817/03841101-2818/01841001-281B Maintenance cartridge error

iPF6000

<Cause>

The maintenance cartridge is full.
The maintenance cartridge does not have the free space for various types of cleaning.
No maintenance cartridge is installed.
The EEPROM of the maintenance cartridge is abnormal.
A maintenance cartridge ID error occurred.

<Probable fault location>

Maintenance cartridge, maintenance cartridge relay PCB, or main controller PCB

<Countermeasure>

1. Replace the maintenance cartridge.
2. Replace the maintenance cartridge relay PCB.
3. Cable continuity check
If continuity of the cable between the maintenance cartridge relay PCB and the main controller PCB is abnormal, replace the cable.
4. Replace the main controller PCB.

6.1.3.33 03861001-2405/03861001-2406 Borderless printing error

iPF6000

<Cause>

The position where the media is loaded is not suitable for borderless printing.
The received data is not suitable for borderless printing.

<Probable fault location>

Operation method

<Countermeasure>

1. Check the operation method and retry printing.

6.1.3.34 03862000-2E09 Insufficient roll media error

iPF6000

<Cause>

The machine detected that the remaining roll media was insufficient.

<Probable fault location>

Roll media, feed roller HP sensor, feed roller encoder film, feed roller encoder, or main controller PCB

<Countermeasure>

1. Replace the roll media.
2. Feed roller HP sensor
Check for normal operation. If the operation is abnormal, replace the feed roller HP sensor.
3. Replace the feed roller encoder film.
4. Replace the feed roller encoder.
5. Replace the main controller PCB.

6.1.3.35 03870001-2015 Cut error

iPF6000

<Cause>

After roll media cutting, the multi sensor could not detect the media end.

<Probable fault location>

Media, multi sensor, cutter unit, cutter lifter unit, cutter drive unit, cutter driver PCB, carriage PCB, or main controller PCB

<Countermeasure>

1. Media check
If there is any print or stain in the detection area on the media or the media size is not the specified one, replace the media.
2. Multi sensor
Select [SERVICE MODE]>[DISPLAY]>[SYSTEM]>[SIZE CR] to check the value read by the multi sensor. If the value is wrong, replace the multi sensor.
3. Visual check
Remove foreign substances from the multi sensor, the cutter unit, the cutter lifter unit, and the cutter drive unit if any.
If the cutter unit, the cutter lifter unit, and the cutter drive unit is damaged or deformed, replace it.
4. Cable continuity check
If continuity of the cable between the multi sensor and the carriage PCB is abnormal, replace the cable.
5. Cable continuity check
If continuity of the cable between the cutter lifter unit, the cutter drive unit, and the cutter driver PCB is abnormal, replace the cable.
6. Replace the cutter driver PCB.
7. Replace the carriage PCB.
8. Replace the main controller PCB.

6.1.4 Troubleshooting When Service Call Errors Occur

6.1.4.1 Outline

iPF6000

When a service call error occurs, turning off the Power button will not recover the error. (Occurrence of a service call is displayed again when the power is turned back on.)
This measure is taken to prevent user's recovery of the service call error and damages to the printer.

To view the service call history, select SERVICE MODE > DISPLAY > ERROR.

6.1.4.2 E141-4046 Recovery system rotation count reached 50,000.

iPF6000

<Cause>

The machine detected that the rotation count of the purge unit reached the specified value.

<Probable fault location>

Purge unit or main controller PCB

<Countermeasure>

1. Replace Purge unit.
After replacing the purge unit, select [SERVICE MODE]>[INITIALIZE]>[PARTS COUNTER] to reset the counter.
2. Replace main controller PCB.

6.1.4.3 E144-4047 Supply system's count error

iPF6000

<Cause>

The machine detected that the carriage scan count reached the specified value.

<Probable fault location>

Ink tank or main controller PCB

<Countermeasure>

1. Replace the ink tank unit.
After replacing the ink tank unit select [SERVICE MODE]>[INITIALIZE]>[PARTS COUNTER] to reset the counter.
2. Replace the main controller PCB.

6.1.4.4 E146-4001 Borderless/idle ejection/mist collection count full

iPF6000

<Cause>

The machine detected that the waste ink box, the mist fan unit or platen duct became full of ink.

<Probable fault location>

Waste ink box, mist fan unit, platen duct or main controller PCB

<Countermeasure>

1. Replace the waste ink box, mist fan unit or platen duct.
After replacing the waste ink box, mist fan unit or platen duct, select [SERVICE MODE]>[INITIALIZE]>[PARTS COUNTER] to reset the counter.
2. Replace main controller PCB.

6.1.4.5 E194-404A Non-discharge detection count error

iPF6000

<Cause>

The machine detected that the Non-discharge count error

<Probable fault location>

Head management sensor or main controller PCB

<Countermeasure>

1. Replace the head management sensor.
After replacing the head management sensor, select [SERVICE MODE]>[INITIALIZE]>[PARTS COUNTER] to reset the counter.
2. Replace the main controller PCB.

6.1.4.6 E196-4040/E196-4041/E196-4042/E196-4045/E196-4049 main controller PCB error

iPF6000

<Cause>

The main controller PCB is defective.

<Probable fault location>

Firmware or main controller PCB

<Countermeasure>

1. Upgrade the firmware.
2. Replace the main controller PCB.

6.1.4.7 E198-401C/E198-401D/E198-401E RTC error

iPF6000

<Cause>

The RTC of the main controller is not found.

The battery capacity is low.

<Probable fault location>

Lithium battery or main controller PCB.

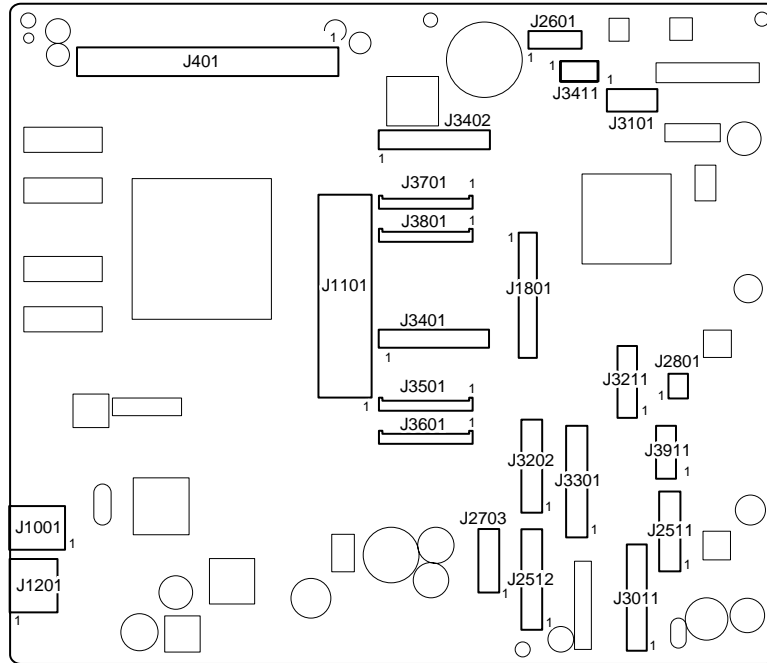
<Countermeasure>

1. Start up the printer in the service mode, and then turn off the power.
2. Replace the lithium battery.
3. Replace the main controller.

6.2 Location of Connectors and Pin Arrangement

6.2.1 Main controller PCB

iPF6100



F-6-1
T-6-1

J1001 (USB)			
Pin Number	Signal name	IN/OUT	Function
1	VBUS	IN	USB VBUS (+5V)
2	D-	IN/OUT	USB data (-)
3	D+	IN/OUT	USB data (+)
4	GND	-	USB GND
5	GND	-	GND (Connector shell)
6	GND	-	GND (Connector shell)

T-6-2

J1101 (Connect to IEEE1394 board)			
Pin Number	Signal name	IN/OUT	Function
1	GND	-	GND
2	GND	-	GND
3	GND	-	GND
4	+3.3V	OUT	Power supply (+3.3V)
5	+3.3V	OUT	Power supply (+3.3V)
6	+3.3V	OUT	Power supply (+3.3V)
7	+3.3V	OUT	Power supply (+3.3V)
8	+3.3V	OUT	Power supply (+3.3V)
9	+3.3V	OUT	Power supply (+3.3V)
10	N.C.	-	N.C.
11	GND	-	GND
12	PME#	IN	Power management enable signal

J1101 (Connect to IEEE1394 board)			
Pin Number	Signal name	IN/OUT	Function
13	INTA#	IN	Interrupt signal
14	GND	-	GND
15	RST#	OUT	PCI reset signal
16	CLK	OUT	PCI clock signal
17	GNT#	OUT	Grant signal
18	GND	-	GND
19	REQ#	IN	Request signal
20	AD31	IN/OUT	Address and data signal 31
21	AD30	IN/OUT	Address and data signal 30
22	AD29	IN/OUT	Address and data signal 29
23	AD28	IN/OUT	Address and data signal 28
24	GND	-	GND
25	AD27	IN/OUT	Address and data signal 27
26	AD26	IN/OUT	Address and data signal 26
27	AD25	IN/OUT	Address and data signal 25
28	AD24	IN/OUT	Address and data signal 24
29	CBE3#	IN/OUT	Bus command and byte enable signal 3
30	IDSEL	OUT	Initialization device select signal
31	GND	-	GND
32	GND	-	GND
33	AD23	IN/OUT	Address and data signal 23
34	AD22	IN/OUT	Address and data signal 22
35	AD21	IN/OUT	Address and data signal 21
36	AD20	IN/OUT	Address and data signal 20
37	GND	-	GND
38	AD19	IN/OUT	Address and data signal 19
39	AD18	IN/OUT	Address and data signal 18
40	AD17	IN/OUT	Address and data signal 17
41	AD16	IN/OUT	Address and data signal 16
42	CBE2#	OUT	Bus command and byte enable signal 2
43	GND	-	GND
44	FRAME#	IN/OUT	Cycle frame signal
45	IRDY#	IN/OUT	Initiator redy signal
46	TRDY#	IN/OUT	Target redy signal
47	DEVSEL#	IN/OUT	Device select signal
48	GND	-	GND
49	STOP#	IN/OUT	Stop signal
50	LOCK#	IN/OUT	Lock signal
51	PERR#	IN/OUT	Parity error signal
52	SERR#	IN/OUT	System error signal
53	PAR	IN/OUT	Parity signal
54	CBE1#	IN/OUT	Bus command and byte enable signal 1
55	GND	-	GND
56	GND	-	GND
57	AD15	IN/OUT	Address and data signal 15
58	AD14	IN/OUT	Address and data signal 14
59	AD13	IN/OUT	Address and data signal 13
60	AD12	IN/OUT	Address and data signal 12
61	GND	-	GND
62	AD11	IN/OUT	Address and data signal 11
63	AD10	IN/OUT	Address and data signal 10
64	AD9	IN/OUT	Address and data signal 09
65	AD8	IN/OUT	Address and data signal 08
66	CBE0#	IN/OUT	Bus command and byte enable signal 0
67	GND	-	GND
68	AD7	IN/OUT	Address and data signal 07
69	AD6	IN/OUT	Address and data signal 06
70	AD5	IN/OUT	Address and data signal 05
71	AD4	IN/OUT	Address and data signal 04

J1101 (Connect to IEEE1394 board)			
Pin Number	Signal name	IN/OUT	Function
72	GND	-	GND
73	AD3	IN/OUT	Address and data signal 03
74	AD2	IN/OUT	Address and data signal 02
75	AD1	IN/OUT	Address and data signal 01
76	AD0	IN/OUT	Address and data signal 00
77	GND	-	GND
78	HDD_LED	-	N.C.
79	+5V	OUT	Power supply (+5V)
80	+5V	OUT	Power supply (+5V)
81	+5V	OUT	Power supply (+5V)
82	+3.3V	OUT	Power supply (+3.3V)
83	+3.3V	OUT	Power supply (+3.3V)
84	+3.3V	OUT	Power supply (+3.3V)
85	GND	-	GND
86	GND	-	GND
87	GND	-	GND
88	GND	-	GND

T-6-3

J1201 (Network)			
Pin Number	Signal name	IN/OUT	Function
1	TX+	OUT	Ethernet data TX line (+)
2	TX-	OUT	Ethernet data TX line (-)
3	RX+	IN	Ethernet data RX line (+)
4	-	-	Not used
5	-	-	Not used
6	RX-	IN	Ethernet data RX line (-)
7	-	-	Not used
8	-	-	Not used
9	GREEN_LED_C	OUT	Link LED (green:100Mb/s) cathode terminal
10	GREEN_LED_A	OUT	Link LED (green:100Mb/s) anode terminal
11	YELLOW_LED_C	OUT	Link LED (yellow:10Mb/s) cathode terminal
12	YELLOW_LED_A	OUT	Link LED (yellow:10Mb/s) anode terminal

T-6-4

J1801 (Connect to Power supply)			
Pin Number	Signal name	IN/OUT	Function
1	HD1_VHFBH	OUT	VH feedback voltage +
2	HD1_VHFBG	OUT	VH feedback voltage -
3	VH	IN	Power supply (+21.5V)
4	GND	-	GND
5	VH	IN	Power supply (+21.5V)
6	GND	-	GND
7	RGV20(VCC)	IN	Power supply (+21.5V)
8	GND	-	GND
9	VM	IN	Power supply (+26V)
10	GND	-	GND
11	VM	IN	Power supply (+26V)
12	GND	-	GND
13	VH_ENB	OUT	VH power supply ON/OFF signal
14	PW_CONT	OUT	Normal/power saving switch signal

T-6-5

J2511 (Spur motor, Spur cam sensor, Mist fan, Cutter motor, Cutter right detection sensor)			
Pin Number	Signal name	IN/OUT	Function
1	SNS_3V_1	OUT	Power supply (+3.3V)
2	GND	-	GND
3	CUTTER_R_SNS_R	IN	Cutter right detection sensor signal
4	CUTTER_OUTA	OUT	Cutter motor driver signal A

J2511 (Spur motor, Spur cam sensor, Mist fan, Cutter motor, Cutter right detection sensor)			
Pin Number	Signal name	IN/OUT	Function
5	CUTTER_OUTB	OUT	Cutter motor driver signal B
6	SNS_3V_1	OUT	Power supply (+3.3V)
7	GND	-	GND
8	HAKUSHA_CAM_SNS_R	IN	Spur cam sensor output signal
9	HAKUSHA_MOTOR_AM	OUT	Spur motor drive signal AM
10	HAKUSHA_MOTOR_AP	OUT	Spur motor drive signal AP
11	FAN_VM	OUT	Power supply (+26V)
12	MIST_FAN_LOCK	IN	Mist fan lock signal
13	MIST_FAN_PWM	OUT	Mist fan duty control signal
14	GND	-	GND

T-6-6

J2512 (Suction fan, Maintenance cartridge relay PCB, Paper detection sensor, Lift cam sensor)			
Pin Number	Signal name	IN/OUT	Function
1	FAN_VM	OUT	Power supply (+26V)
2	PLATEN_FAN_LOCK	IN	Suction fan lock signal
3	PLATEN_FAN_PWM	OUT	Suction fan duty control signal
4	GND	-	GND
5	MENT_SDA	IN/OUT	Maintenance cartridge rom control signal (data)
6	MENT_SCL	IN/OUT	Maintenance cartridge rom control signal (clock)
7	GND	-	GND
8	MENT_3V		Power supply (+3.3V)
9	SNS_3V_1	OUT	Power supply (+3.3V)
10	N.C.	-	N.C.
11	N.C.	-	N.C.
12	N.C.	-	N.C.
13	GND	-	GND
14	PE_SNS	IN	Paper detection sensor output signal
15	SNS_3V_1	OUT	Power supply (+3.3V)
16	GND	-	GND
17	LIFT_CAM_SNS	IN	Lift cam sensor output signal

T-6-7

J2601 (Operation panel)			
Pin Number	Signal name	IN/OUT	Function
1	POWER_ON	IN	Power switch signal
2	PM_START	OUT	Power supply (+5V)
3	BUZZER	OUT	Buzzer control signal
4	PDODATA	OUT	Panel IC control signal
5	+3.3V	OUT	Power supply (+3.3V)
6	PDI_DATA	IN	Panel IC data signal
7	GND	-	GND
8	/PANEL RESET	OUT	Panel reset signal
9	GND	-	GND
10	PDOPCLK	OUT	Panel IC clock signal
11	SNS_5V	OUT	Power supply (+5V)
12	/PDOCS_L	OUT	Panel supply chip select signal

T-6-8

J2703 (Auto feed roll unit)			
Pin Number	Signal name	IN/OUT	Function
1	OPT_5V	OUT	Power supply (+5V)
2	GND	-	GND
3	ROLL_CAM_SNS	IN	Roll cam sensor signal
4	ROLL_PAPER_SNS	IN	Roll media sensor signal
5	ROLL_UNIT	IN	Roll unit detection signal
6	VM	OUT	Power supply (+26V)
7	VM	OUT	Power supply (+26V)
8	/ROLL_SLEEP	OUT	Roll motor driver sleep signal

J2703 (Auto feed roll unit)			
Pin Number	Signal name	IN/OUT	Function
9	ROLL_STB	OUT	Roll motor driver strobe signal
10	ROLL_DAT	OUT	Roll motor driver data signal
11	ROLL_CLK	OUT	Roll motor driver clock signal
12	GND	-	GND
13	GND	-	GND

T-6-9

J2801 (Feed motor)			
Pin Number	Signal name	IN/OUT	Function
1	LF_OUTB	OUT	Feed motor drive signal B
2	LF_OUTA	OUT	Feed motor drive signal A

T-6-10

J3011 (Purge motor, Pump encoder sensor, Pump cam sensor, Lift motor, Head management sensor)			
Pin Number	Signal name	IN/OUT	Function
1	LIFTOUTCOM	OUT	Lift motor power supply
2	LIFT_OUTAP	OUT	Lift motor drive signal AP
3	LIFT_OUTAM	OUT	Lift motor drive signal AM
4	LIFT_OUTBP	OUT	Lift motor drive signal BP
5	LIFT_OUTBM	OUT	Lift motor drive signal BM
6	GND	-	GND
7	FUTO_CLMP	OUT	Head management sensor unit clamp signal
8	FUTO_XLEDON	OUT	Head management sensor unit LED ON/OFF signal
9	SNS_5V		Power supply (+5V)
10	FUTO_XCMP0	IN	Head management sensor unit skew detection signal
11	PUMP_OUTB	OUT	Purge motor drive signal B
12	PUMP_OUTA	OUT	Purge motor drive signal A
13	GND	-	GND
14	PUMP_ENCA	IN	Pump encoder sensor output signal A
15	SNS_5V		Power supply (+5V)
16	PUMP_ENCB	IN	Pump encoder sensor output signal B
17	PUMP_CAM_3V	OUT	Power supply (+3.3V)
18	GND	-	GND
19	PUMP_CAM_SNS	IN	Pump cam sensor output signal

T-6-11

J3101 (Carriage motor)			
Pin Number	Signal name	IN/OUT	Function
1	CR_HWP	IN	Carriage motor hole device W-phase + signal
2	CR_HWM	IN	Carriage motor hole device W-phase - signal
3	CR_W	OUT	Carriage motor W-phase drive signal
4	CR_HVM	IN	Carriage motor hole device V-phase - signal
5	CR_U	OUT	Carriage motor U-phase drive signal
6	GND	-	GND
7	CR_V	OUT	Carriage motor V-phase drive signal
8	SNS_5V		Power supply (+5V)
9	N.C.	-	N.C.
10	CR_HVP	IN	Carriage motor hole device V-phase + signal
11	CR_HUM	IN	Carriage motor hole device U-phase - signal
12	CR_HUP	IN	Carriage motor hole device U-phase + signal

T-6-12

J3202 (Ink tank ROM PCB, Ink detection sensor)			
Pin Number	Signal name	IN/OUT	Function
1	TANK_DAT0	IN/OUT	Ink tank data signal 0
2	TANK_DAT1	IN/OUT	Ink tank data signal 1
3	TANK_3V	OUT	Power supply (+3.3V)
4	TANK_DAT2	IN/OUT	Ink tank data signal 2

J3202 (Ink tank ROM PCB, Ink detection sensor)			
Pin Number	Signal name	IN/OUT	Function
5	GND	-	GND
6	TANK_CLK	OUT	Ink tank clock signal
7	TANK_DAT3	IN/OUT	Ink tank data signal 3
8	TANK_DAT4	IN/OUT	Ink tank data signal 4
9	TANK_3V	OUT	Power supply (+3.3V)
10	TANK_DAT5	IN/OUT	Ink tank data signal 5
11	GND	-	GND
12	TANK_CLK	OUT	Ink tank clock signal
13	GND	-	GND
14	INK_SNS0	IN	Ink detection sensor output signal 0
15	INK_SNS1	IN	Ink detection sensor output signal 1
16	INK_SNS2	IN	Ink detection sensor output signal 2
17	GND	-	GND
18	INK_SNS3	IN	Ink detection sensor output signal 3
19	INK_SNS4	IN	Ink detection sensor output signal 4
20	INK_SNS5	IN	Ink detection sensor output signal 5

T-6-13

J3211 (Valve motor, Valve open/closed detection sensor, Feed roller HP sensor, Feed roller encoder sensor)			
Pin Number	Signal name	IN/OUT	Function
1	VALVE_DETECT_3V	OUT	Power supply (+3.3V)
2	GND	-	GND
3	VALVE_DETECT_SNS	IN	Valve open/closed detection sensor output signal
4	VALVE_MOTOR_AM	OUT	Valve motor drive signal AM
5	VALVE_MOTOR_AP	OUT	Valve motor drive signal AP
6	LF_HP_SNS_3V	OUT	Power supply (+3.3V)
7	GND	-	GND
8	LF_HP_SNS	IN	Feed roller HP sensor output signal
9	GND	-	GND
10	LF_ENCA	IN	Feed roller encoder sensor output signal A
11	RGV5	OUT	Power supply (+5V)
12	LF_ENCB	IN	Feed roller encoder sensor output signal B

T-6-14

J3301 (Ink tank ROM PCB, Ink detection sensor)			
Pin Number	Signal name	IN/OUT	Function
1	TANK_DAT6_L	IN/OUT	Ink tank data signal 6
2	TANK_DAT7_L	IN/OUT	Ink tank data signal 7
3	TANK_3V	OUT	Power supply (+3.3V)
4	TANK_DAT8	IN/OUT	Ink tank data signal 8
5	GND	-	GND
6	TANK_CLK	OUT	Ink tank clock signal
7	TANK_DAT9	IN/OUT	Ink tank data signal 9
8	TANK_DAT10	IN/OUT	Ink tank data signal 10
9	TANK_3V	OUT	Power supply (+3.3V)
10	TANK_DAT11	IN/OUT	Ink tank data signal 11
11	GND	-	GND
12	TANK_CLK	OUT	Ink tank clock signal
13	GND	-	GND
14	INK_SNS6_L	IN	Ink detection sensor output signal 6
15	INK_SNS7_L	IN	Ink detection sensor output signal 7
16	INK_SNS8	IN	Ink detection sensor output signal 8
17	GND	-	GND
18	INK_SNS9	IN	Ink detection sensor output signal 9
19	INK_SNS10	IN	Ink detection sensor output signal 10
20	INK_SNS11	IN	Ink detection sensor output signal 11

T-6-15

J3401 (Carriage PCB J11)			
Pin Number	Signal name	IN/OUT	Function
1	GND	-	GND
2	GND	-	GND
3	GND	-	GND
4	GND	-	GND
5	GND	-	GND
6	GND	-	GND
7	GND	-	GND
8	VH	OUT	Power supply (+21.5V)
9	VH	OUT	Power supply (+21.5V)
10	VH	OUT	Power supply (+21.5V)
11	VH	OUT	Power supply (+21.5V)
12	VH	OUT	Power supply (+21.5V)
13	VH	OUT	Power supply (+21.5V)
14	VH	OUT	Power supply (+21.5V)
15	VH	OUT	Power supply (+21.5V)
16	VH	OUT	Power supply (+21.5V)
17	VH	OUT	Power supply (+21.5V)
18	VH	OUT	Power supply (+21.5V)
19	VH	OUT	Power supply (+21.5V)
20	VH	OUT	Power supply (+21.5V)
21	VH	OUT	Power supply (+21.5V)
22	VH	OUT	Power supply (+21.5V)
23	VH	OUT	Power supply (+21.5V)
24	GND	-	GND
25	GND	-	GND
26	GND	-	GND
27	GND	-	GND
28	GND	-	GND
29	GND	-	GND
30	GND	-	GND

T-6-16

J3402 (Carriage PCB J21)			
Pin Number	Signal name	IN/OUT	Function
1	GND	-	GND
2	GND	-	GND
3	GND	-	GND
4	GND	-	GND
5	GND	-	GND
6	GND	-	GND
7	VH	OUT	Power supply (+21.5V)
8	VH	OUT	Power supply (+21.5V)
9	VH	OUT	Power supply (+21.5V)
10	VH	OUT	Power supply (+21.5V)
11	VH	OUT	Power supply (+21.5V)
12	VH	OUT	Power supply (+21.5V)
13	VH	OUT	Power supply (+21.5V)
14	VH	OUT	Power supply (+21.5V)
15	VH	OUT	Power supply (+21.5V)
16	VH	OUT	Power supply (+21.5V)
17	VH	OUT	Power supply (+21.5V)
18	VH	OUT	Power supply (+21.5V)
19	VH	OUT	Power supply (+21.5V)
20	VH	OUT	Power supply (+21.5V)
21	VH	OUT	Power supply (+21.5V)
22	HD1_VHFBH	IN	VH feed back voltage +
23	HD1_VHFBG	IN	VH feed back voltage -
24	GND	-	GND

J3402 (Carriage PCB J21)			
Pin Number	Signal name	IN/OUT	Function
25	GND	-	GND
26	GND	-	GND
27	GND	-	GND
28	GND	-	GND
29	GND	-	GND
30	GND	-	GND

T-6-17

J3411 (Temperature/humidity detection sensor)			
Pin Number	Signal name	IN/OUT	Function
1	TH2_OUT	IN	Thermistor output signal
2	GND	-	GND
3	RHV_OUT	IN	Temperature/humidity detection sensor output signal
4	SNS_5V		Power supply (+5V)

T-6-18

J3501 (Carriage PCB J12)			
Pin Number	Signal name	IN/OUT	Function
1	GND	-	GND
2	GND	-	GND
3	H-DASH LICC2 B	OUT	Analogue switch A/D trigger signal
4	GND	-	GND
5	H0-D-DATA-7-OD	OUT	Odd head R data signal 7(D)
6	GND	-	GND
7	H0-E-HE-8	OUT	Head R heat enable signal 8(E)
8	GND	-	GND
9	H0-E-DATA-8-OD	OUT	Odd head R data signal 8(E)
10	GND	-	GND
11	H0-F-DATA-10-OD	OUT	Odd head R data signal 10(F)
12	GND	-	GND
13	H0-E-DATA-9-OD	OUT	Odd head R data signal 9(E)
14	GND	-	GND
15	H0-F-HE-10	OUT	Head R heat enable signal 10(F)
16	GND	-	GND
17	H0-F-DATA-11-OD	OUT	Odd head R data signal 11(F)
18	GND	-	GND
19	H0-F-HE-11	OUT	Head R heat enable signal 11(F)
20	GND	-	GND
21	H0-F-DATA-11-EV	OUT	Even head R data signal 11(F)
22	GND	-	GND
23	H0-F-DATA-10-EV	OUT	Even head R data signal 10(F)
24	GND	-	GND
25	H0-E-HE-9	OUT	Head R heat enable signal 9(E)
26	GND	-	GND
27	H0-E-DATA-9-EV	OUT	Even head R data signal 9(E)
28	GND	-	GND
29	GND	-	GND
30	GND	-	GND
31	GND	-	GND
32	GND	-	GND
33	GND	-	GND
34	GND	-	GND
35	H0-A-DATA-0-OD	OUT	Odd head R data signal 0(A)
36	GND	-	GND
37	H0-A-DATA-1-OD	OUT	Odd head R data signal 1(A)
38	GND	-	GND
39	H0-B-HE-2	OUT	Head R heat enable signal 2(B)
40	GND	-	GND
41	H0-B-DATA-2-OD	OUT	Odd head R data signal 2(B)

J3501 (Carriage PCB J12)			
Pin Number	Signal name	IN/OUT	Function
42	GND	-	GND
43	H0-B-DATA-3-OD	OUT	Odd head R data signal 3(B)
44	GND	-	GND
45	H0-C-HE-4	OUT	Head R heat enable signal 4(C)
46	GND	-	GND
47	H0-C-DATA-4-OD	OUT	Odd head R data signal 4(C)
48	SNS_5V	OUT	Power supply (+5V)
49	GND	-	GND
50	GND	-	GND

T-6-19

J3601 (Carriage PCB J13)			
Pin Number	Signal name	IN/OUT	Function
1	H0-E-DATA-8	OUT	Even head R data signal 8(E)
2	GND	-	GND
3	H0-D-HE-7	OUT	Head R heat enable signal 7(D)
4	GND	-	GND
5	H0-D-DATA-7-EV	OUT	Even head R data signal 7(D)
6	GND	-	GND
7	H0-D-DATA-6-EB	OUT	Even head R data signal 6(D)
8	GND	-	GND
9	H0-D-DATA-6-OD	OUT	Odd head R data signal 6(D)
10	GND	-	GND
11	H0-D-HE-6	OUT	Head R heat enable signal 6(D)
12	GND	-	GND
13	H0-C-HE-5	OUT	Head R heat enable signal 5(C)
14	GND	-	GND
15	H0-C-DATA-5-OD	OUT	Odd head R data signal 5(C)
16	GND	-	GND
17	H0-DSOUT2	IN	Head R temperature output 2
18	GND	-	GND
19	H0-DSOUT1	IN	Head R temperature output 1
20	GND	-	GND
21	GND	-	GND
22	LICSEL0	OUT	Head R analogue switch clock signal
23	LICSEL2	OUT	Head R analogue switch latch signal
24	LICSEL1	OUT	Head R analogue switch data signal
25	GND	-	GND
26	GND	-	GND
27	H0_CLK	OUT	Head R data clock signal
28	GND	-	GND
29	H0-LT	OUT	Head R data latch signal
30	HEAD_3V	OUT	Power supply (+3V)
31	HEAD_3V	OUT	Power supply (+3V)
32	GND	-	GND
33	H0-C-DATA-5-EV	OUT	Even head R data signal 5(C)
34	GND	-	GND
35	H0-B-HE-3	OUT	Head R heat enable signal 8(E)
36	GND	-	GND
37	H0-C-DATA-4-EV	OUT	Even head R data signal 4(C)
38	GND	-	GND
39	H0-B-DATA-3-EV	OUT	Even head R data signal 3(B)
40	GND	-	GND
41	H0-B-DATA-2-EV	OUT	Even head R data signal 2(B)
42	GND	-	GND
43	H0-A-DATA-1-EV	OUT	Even head R data signal 1(A)
44	GND	-	GND
45	H0-A-HE-1	OUT	Head R heat enable signal 8(E)
46	GND	-	GND
47	H0-A-DATA-0-EV	OUT	Even head R data signal 0(A)

J3601 (Carriage PCB J13)			
Pin Number	Signal name	IN/OUT	Function
48	GND	-	GND
49	H0-A-HE-0_B	OUT	Head R heat enable signal 8(E)
50	GND	-	GND

T-6-20

J3701 (Carriage PCB J22)			
Pin Number	Signal name	IN/OUT	Function
1	H1-D-DATA-7-OD	OUT	Odd head L data signal 7(D)
2	GND	-	GND
3	H1-E-HE-8	OUT	Head L heat enable signal8(E)
4	GND	-	GND
5	H1-E-DATA-8-OD	OUT	Odd head L data signal 8(E)
6	GND	-	GND
7	H1-F-DATA-10-OD	OUT	Odd head L data signal 10(F)
8	GND	-	GND
9	H1-E-DATA-9-OD	OUT	Odd head L data signal 9(E)
10	GND	-	GND
11	H1-F-HE-10	OUT	Head L heat enable signal10(F)
12	GND	-	GND
13	H1-F-DATA-11-OD	OUT	Odd head L data signal 11(F)
14	GND	-	GND
15	H1-F-HE-11	OUT	Head L heat enable signal11(F)
16	GND	-	GND
17	H1-F-DATA-11-EV	OUT	Even head L data signal11(F)
18	GND	-	GND
19	H1-F-DATA-10-EV	OUT	Even head L data signal10(F)
20	GND	-	GND
21	H1-E-HE-9	OUT	Head L heat enable signal9(E)
22	GND	-	GND
23	H1-E-DATA-9-EV	OUT	Even head L data signal9(E)
24	H1-DLD LICC2	OUT	Head L analogue switch latch signal
25	H1-DATA LICC2	OUT	Head L analogue switch data signal
26	H1-DASLK LICC2	OUT	Head L analogue switch clock signal
27	GND	-	GND
28	H1-DSOUT2	IN	Head L temperature output 2
29	H1-DSOUT1	IN	Head L temperature output 1
30	GND	-	GND
31	PWLED4_ON	OUT	Multi sensor LED 4 drive signal
32	PWLED3_ON	OUT	Multi sensor LED 3 drive signal
33	PWLED2_ON	OUT	Multi sensor LED 2 drive signal
34	PWLED1_ON	OUT	Multi sensor LED 1 drive signal
35	GND	-	GND
36	MLT_SNS_1IN	IN	Multi sensor signal 1
37	MLT_SNS_2IN	IN	Multi sensor signal 2
38	GND	-	GND
39	H1-B-DATA-2-OD	OUT	Odd head L data signal 2(B)
40	GND	-	GND
41	H1-B-DATA-3-OD	OUT	Odd head L data signal 3(B)
42	GND	-	GND
43	H1-C-HE-4	OUT	Head L heat enable signal8(E)
44	GND	-	GND
45	H1-C-DATA-4-OD	OUT	Odd head L data signal 4(C)
46	SNS_5V	OUT	Power supply (+5V)
47	ENCODER_B	IN	Carriage encoder output signalB
48	SNS_5V	OUT	Power supply (+5V)
49	ENCODER_A	IN	Carriage encoder output signalA
50	GND	-	GND

T-6-21

J3801 (Carriage PCB J23)			
Pin Number	Signal name	IN/OUT	Function
1	H1-E-DATA-8-EV	OUT	Even head L data signal 8(E)
2	GND	-	GND
3	H1-D-HE-7	OUT	Head L heat enable signal 7(D)
4	GND	-	GND
5	IO-ASIC_SDA	IN/OUT	Head ROM control signal (data)
6	GND	-	GND
7	H1-D-DATA-7-EV	OUT	Even head L data signal 7(D)
8	GND	-	GND
9	H1-D-DATA-6-EV	OUT	Even head L data signal 6(D)
10	GND	-	GND
11	H1-D-DATA-6-OD	OUT	Odd head L data signal6(D)
12	GND	-	GND
13	IO-ASIC_SCL	IN/OUT	Head ROM control signal (clock)
14	GND	-	GND
15	H1-D-HE-6	OUT	Head L heat enable signal 6(D)
16	GND	-	GND
17	H1-C-HE-5	OUT	Head L heat enable signal 5(C)
18	GND	-	GND
19	H1-C-DATA-5-OD	OUT	Odd head L data signal5(C)
20	GND	-	GND
21	H1_CLK	OUT	Head L clock signal
22	GND	-	GND
23	HEAD_3V	OUT	Power supply (+3V)
24	GND	-	GND
25	H1_LT	OUT	Head L latch signal
26	H-DASH_LICC2_B	OUT	Analogue switch/AD trigger
27	H1-C-DATA-5-EV	OUT	Even head L data signal 5(C)
28	GND	-	GND
29	H1-B-HE-3	OUT	Head L heat enable signal 3(B)
30	GND	-	GND
31	H1-C-DATA-4-EV	OUT	Even head L data signal 4(C)
32	GND	-	GND
33	H1-B-DATA-3-EV	OUT	Even head L data signal 3(B)
34	GND	-	GND
35	H1-B-DATA-2-EV	OUT	Even head L data signal 2(B)
36	GND	-	GND
37	H1-A-DATA-1-EV	OUT	Even head L data signal 1(A)
38	GND	-	GND
39	H1-A-HE-1	OUT	Head L heat enable signal 1(A)
40	GND	-	GND
41	H1-A-DATA-0-EV	OUT	Even head L data signal 0(A)
42	GND	-	GND
43	H1-A-HE-0	OUT	Head L heat enable signal 0(A)
44	GND	-	GND
45	H1-A-DATA-0-OD	OUT	Odd head L data signal0(A)
46	GND	-	GND
47	H1-A-DATA-1-OD	OUT	Odd head L data signal1(A)
48	GND	-	GND
49	H1-B-HE-2	OUT	Head L heat enable signal 2(B)
50	GND	-	GND

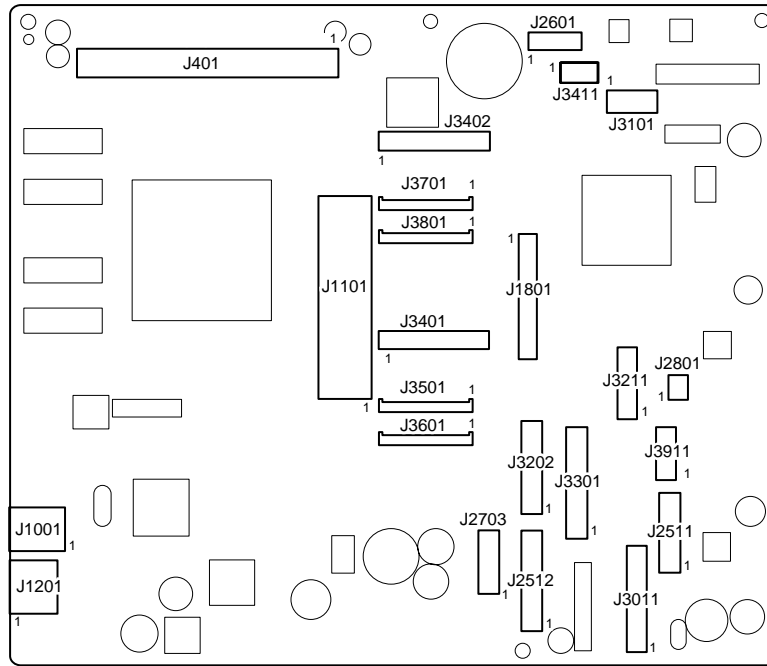
T-6-22

J3911 (Top cover sensor, Ink tank cover switch, Cutter HP sensor)			
Pin Number	Signal name	IN/OUT	Function
1	TANK_COVER_SW	IN	Ink tank cover switch output signal
2	GND	-	GND
3	SNS_3V_1	OUT	Power supply (+3.3V)
4	GND	-	GND

J3911 (Top cover sensor, Ink tank cover switch, Cutter HP sensor)			
Pin Number	Signal name	IN/OUT	Function
5	TOP_COVER_SNS	IN	Top cover sensor output signal
6	SNS_3V_1	OUT	Power supply (+3.3V)
7	GND	-	GND
8	CUTTER_L_SNS	IN	Cutter HP sensor signal

6.2.2 Main controller PCB

iPF6200



F-6-2
T-6-23

J1001 (USB)			
Pin Number	Signal name	IN/OUT	Function
1	VBUS	IN	USB VBUS (+5V)
2	D-	IN/OUT	USB data (-)
3	D+	IN/OUT	USB data (+)
4	GND	-	USB GND
5	GND	-	GND (Connector shell)
6	GND	-	GND (Connector shell)

T-6-24

J1101 (Connect to HDD expansion PCB)			
Pin Number	Signal name	IN/OUT	Function
1	GND	-	GND
2	GND	-	GND
3	GND	-	GND
4	+3.3V	OUT	Power supply (+3.3V)
5	+3.3V	OUT	Power supply (+3.3V)
6	+3.3V	OUT	Power supply (+3.3V)
7	+3.3V	OUT	Power supply (+3.3V)
8	+3.3V	OUT	Power supply (+3.3V)
9	+3.3V	OUT	Power supply (+3.3V)
10	N.C.	-	N.C.
11	GND	-	GND
12	PME#	IN	Power management enable signal
13	INTA#	IN	Interrupt signal
14	GND	-	GND
15	RST#	OUT	PCI reset signal
16	CLK	OUT	PCI clock signal
17	GNT#	OUT	Grant signal
18	GND	-	GND
19	REQ#	IN	Request signal
20	AD31	IN/OUT	Address and data signal 31
21	AD30	IN/OUT	Address and data signal 30
22	AD29	IN/OUT	Address and data signal 29

J1101 (Connect to HDD expansion PCB)			
Pin Number	Signal name	IN/OUT	Function
23	AD28	IN/OUT	Address and data signal 28
24	GND	-	GND
25	AD27	IN/OUT	Address and data signal 27
26	AD26	IN/OUT	Address and data signal 26
27	AD25	IN/OUT	Address and data signal 25
28	AD24	IN/OUT	Address and data signal 24
29	CBE3#	IN/OUT	Bus command and byte enable signal 3
30	IDSEL	OUT	Initialization device select signal
31	GND	-	GND
32	GND	-	GND
33	AD23	IN/OUT	Address and data signal 23
34	AD22	IN/OUT	Address and data signal 22
35	AD21	IN/OUT	Address and data signal 21
36	AD20	IN/OUT	Address and data signal 20
37	GND	-	GND
38	AD19	IN/OUT	Address and data signal 19
39	AD18	IN/OUT	Address and data signal 18
40	AD17	IN/OUT	Address and data signal 17
41	AD16	IN/OUT	Address and data signal 16
42	CBE2#	OUT	Bus command and byte enable signal 2
43	GND	-	GND
44	FRAME#	IN/OUT	Cycle frame signal
45	IRDY#	IN/OUT	Initiator redy signal
46	TRDY#	IN/OUT	Target redy signal
47	DEVSEL#	IN/OUT	Device select signal
48	GND	-	GND
49	STOP#	IN/OUT	Stop signal
50	LOCK#	IN/OUT	Lock signal
51	PERR#	IN/OUT	Parity error signal
52	SERR#	IN/OUT	System error signal
53	PAR	IN/OUT	Parity signal
54	CBE1#	IN/OUT	Bus command and byte enable signal 1
55	GND	-	GND
56	GND	-	GND
57	AD15	IN/OUT	Address and data signal 15
58	AD14	IN/OUT	Address and data signal 14
59	AD13	IN/OUT	Address and data signal 13
60	AD12	IN/OUT	Address and data signal 12
61	GND	-	GND
62	AD11	IN/OUT	Address and data signal 11
63	AD10	IN/OUT	Address and data signal 10
64	AD9	IN/OUT	Address and data signal 09
65	AD8	IN/OUT	Address and data signal 08
66	CBE0#	IN/OUT	Bus command and byte enable signal 0
67	GND	-	GND
68	AD7	IN/OUT	Address and data signal 07
69	AD6	IN/OUT	Address and data signal 06
70	AD5	IN/OUT	Address and data signal 05
71	AD4	IN/OUT	Address and data signal 04
72	GND	-	GND
73	AD3	IN/OUT	Address and data signal 03
74	AD2	IN/OUT	Address and data signal 02
75	AD1	IN/OUT	Address and data signal 01
76	AD0	IN/OUT	Address and data signal 00
77	GND	-	GND
78	HDD_LED	OUT	HDD LED signal
79	+5V	OUT	Power supply (+5V)
80	+5V	OUT	Power supply (+5V)
81	+5V	OUT	Power supply (+5V)

J1101 (Connect to HDD expansion PCB)			
Pin Number	Signal name	IN/OUT	Function
82	+3.3V	OUT	Power supply (+3.3V)
83	+3.3V	OUT	Power supply (+3.3V)
84	+3.3V	OUT	Power supply (+3.3V)
85	GND	-	GND
86	GND	-	GND
87	GND	-	GND
88	GND	-	GND

T-6-25

J1201 (Network)			
Pin Number	Signal name	IN/OUT	Function
1	TX+	OUT	Ethernet data TX line (+)
2	TX-	OUT	Ethernet data TX line (-)
3	RX+	IN	Ethernet data RX line (+)
4	-	-	Not used
5	-	-	Not used
6	RX-	IN	Ethernet data RX line (-)
7	-	-	Not used
8	-	-	Not used
9	GREEN_LED_C	OUT	Link LED (green:100Mb/s) cathode terminal
10	GREEN_LED_A	OUT	Link LED (green:100Mb/s) anode terminal
11	YELLOW_LED_C	OUT	Link LED (yellow:10Mb/s) cathode terminal
12	YELLOW_LED_A	OUT	Link LED (yellow:10Mb/s) anode terminal

T-6-26

J1801 (Connect to Power supply)			
Pin Number	Signal name	IN/OUT	Function
1	HD1_VHFBH	OUT	VH feedback voltage +
2	HD1_VHFBG	OUT	VH feedback voltage -
3	VH	IN	Power supply (+21.5V)
4	GND	-	GND
5	VH	IN	Power supply (+21.5V)
6	GND	-	GND
7	RGV20(VCC)	IN	Power supply (+21.5V)
8	GND	-	GND
9	VM	IN	Power supply (+26V)
10	GND	-	GND
11	VM	IN	Power supply (+26V)
12	GND	-	GND
13	VH_ENB	OUT	VH power supply ON/OFF signal
14	PW_CONT	OUT	Normal/power saving switch signal

T-6-27

J2511 (Spur motor, Spur cam sensor, Mist fan, Cutter motor, Cutter right detection sensor)			
Pin Number	Signal name	IN/OUT	Function
1	SNS_3V_1	OUT	Power supply (+3.3V)
2	GND	-	GND
3	CUTTER_R_SNS_R	IN	Cutter right detection sensor signal
4	CUTTER_OUTA	OUT	Cutter motor driver signal A
5	CUTTER_OUTB	OUT	Cutter motor driver signal B
6	SNS_3V_1	OUT	Power supply (+3.3V)
7	GND	-	GND
8	HAKUSHA_CAM_SNS_R	IN	Spur cam sensor output signal
9	HAKUSHA_MOTOR_AM	OUT	Spur motor drive signal AM
10	HAKUSHA_MOTOR_AP	OUT	Spur motor drive signal AP
11	FAN_VM	OUT	Power supply (+26V)
12	MIST_FAN_LOCK	IN	Mist fan lock signal
13	MIST_FAN_PWM	OUT	Mist fan duty control signal
14	GND	-	GND

T-6-28

J2512 (Suction fan, Maintenance cartridge relay PCB, Paper detection sensor, Lift cam sensor)			
Pin Number	Signal name	IN/OUT	Function
1	FAN_VM	OUT	Power supply (+26V)
2	PLATEN_FAN_LOCK	IN	Suction fan lock signal
3	PLATEN_FAN_PWM	OUT	Suction fan duty control signal
4	GND	-	GND
5	MENT_SDA	IN/OUT	Maintenance cartridge rom control signal (data)
6	MENT_SCL	IN/OUT	Maintenance cartridge rom control signal (clock)
7	GND	-	GND
8	MENT_3V		Power supply (+3.3V)
9	SNS_3V_I	OUT	Power supply (+3.3V)
10	N.C.	-	N.C.
11	N.C.	-	N.C.
12	N.C.	-	N.C.
13	GND	-	GND
14	PE_SNS	IN	Paper detection sensor output signal
15	SNS_3V_I	OUT	Power supply (+3.3V)
16	GND	-	GND
17	LIFT_CAM_SNS	IN	Lift cam sensor output signal

T-6-29

J2601 (Connect to Operation panel)			
Pin Number	Signal name	IN/OUT	Function
1	POWER_ON	IN	Power switch signal
2	PM_START	OUT	Power supply (+5V)
3	BUZZER	OUT	Buzzer control signal
4	PDODATA	OUT	Panel IC control signal
5	+3.3V	OUT	Power supply (+3.3V)
6	PDI_DATA	IN	Panel IC data signal
7	GND	-	GND
8	/PANEL RESET	OUT	Panel IC reset signal
9	GND	-	GND
10	PDOPCLK	OUT	Panel IC clock signal
11	SNS_5V	OUT	Power supply (+5V)
12	/PDOCS_L	OUT	Panel IC chip select signal

T-6-30

J2703 (Auto feed roll unit)			
Pin Number	Signal name	IN/OUT	Function
1	OPT_5V	OUT	Power supply (+5V)
2	GND	-	GND
3	ROLL_CAM_SNS	IN	Roll cam sensor signal
4	ROLL_PAPER_SNS	IN	Roll media sensor signal
5	ROLL_UNIT	IN	Roll unit detection signal
6	VM	OUT	Power supply (+26V)
7	VM	OUT	Power supply (+26V)
8	/ROLL_SLEEP	OUT	Roll motor driver sleep signal
9	ROLL_STB	OUT	Roll motor driver strobe signal
10	ROLL_DAT	OUT	Roll motor driver data signal
11	ROLL_CLK	OUT	Roll motor driver clock signal
12	GND	-	GND
13	GND	-	GND

T-6-31

J2801 (Feed motor)			
Pin Number	Signal name	IN/OUT	Function
1	LF_OUTB	OUT	Feed motor drive signal B
2	LF_OUTA	OUT	Feed motor drive signal A

T-6-32

J3011 (Purge motor, Pump encoder sensor, Pump cam sensor, Lift motor, Head management sensor)			
Pin Number	Signal name	IN/OUT	Function
1	LIFTOUTCOM	OUT	Lift motor power supply
2	LIFT_OUTAP	OUT	Lift motor drive signal AP
3	LIFT_OUTAM	OUT	Lift motor drive signal AM
4	LIFT_OUTBP	OUT	Lift motor drive signal BP
5	LIFT_OUTBM	OUT	Lift motor drive signal BM
6	GND	-	GND
7	FUTO_CLMP	OUT	Head management sensor unit clamp signal
8	FUTO_XLEDON	OUT	Head management sensor unit LED ON/OFF signal
9	SNS_5V		Power supply (+5V)
10	FUTO_XCMP0	IN	Head management sensor unit light shading detection signal
11	PUMP_OUTB	OUT	Purge motor drive signal B
12	PUMP_OUTA	OUT	Purge motor drive signal A
13	GND	-	GND
14	PUMP_ENCA	IN	Pump encoder sensor output signal A
15	SNS_5V		Power supply (+5V)
16	PUMP_ENCB	IN	Pump encoder sensor output signal B
17	PUMP_CAM_3V	OUT	Power supply (+3.3V)
18	GND	-	GND
19	PUMP_CAM_SNS	IN	Pump cam sensor output signal

T-6-33

J3101 (Carriage motor)			
Pin Number	Signal name	IN/OUT	Function
1	CR_HWP	IN	Carriage motor hole device W-phase + signal
2	CR_HWM	IN	Carriage motor hole device W-phase - signal
3	CR_W	OUT	Carriage motor W-phase drive signal
4	CR_HVM	IN	Carriage motor hole device V-phase - signal
5	CR_U	OUT	Carriage motor U-phase drive signal
6	GND	-	GND
7	CR_V	OUT	Carriage motor V-phase drive signal
8	SNS_5V		Power supply (+5V)
9	N.C.	-	N.C.
10	CR_HVP	IN	Carriage motor hole device V-phase + signal
11	CR_HUM	IN	Carriage motor hole device U-phase - signal
12	CR_HUP	IN	Carriage motor hole device U-phase + signal

T-6-34

J3202 (Ink tank ROM PCB, Ink detection sensor)			
Pin Number	Signal name	IN/OUT	Function
1	TANK_DAT0	IN/OUT	Ink tank data signal 0
2	TANK_DAT1	IN/OUT	Ink tank data signal 1
3	TANK_3V	OUT	Power supply (+3.3V)
4	TANK_DAT2	IN/OUT	Ink tank data signal 2
5	GND	-	GND
6	TANK_CLK	OUT	Ink tank clock signal
7	TANK_DAT3	IN/OUT	Ink tank data signal 3
8	TANK_DAT4	IN/OUT	Ink tank data signal 4
9	TANK_3V	OUT	Power supply (+3.3V)
10	TANK_DAT5	IN/OUT	Ink tank data signal 5
11	GND	-	GND
12	TANK_CLK	OUT	Ink tank clock signal
13	GND	-	GND
14	INK_SNS0	IN	Ink detection sensor output signal 0
15	INK_SNS1	IN	Ink detection sensor output signal 1
16	INK_SNS2	IN	Ink detection sensor output signal 2
17	GND	-	GND
18	INK_SNS3	IN	Ink detection sensor output signal 3

J3202 (Ink tank ROM PCB, Ink detection sensor)			
Pin Number	Signal name	IN/OUT	Function
19	INK_SNS4	IN	Ink detection sensor output signal 4
20	INK_SNS5	IN	Ink detection sensor output signal 5

T-6-35

J3211 (Valve motor, Valve open/closed detection sensor, Feed roller HP sensor, Feed roller encoder sensor)			
Pin Number	Signal name	IN/OUT	Function
1	SNS_3V	OUT	Power supply (+3.3V)
2	GND	-	GND
3	VALVE_DETECT_SENSOR	IN	Valve open/closed detection sensor output signal
4	VALVE_MOTOR_AM	OUT	Valve motor drive signal AM
5	VALVE_MOTOR_AP	OUT	Valve motor drive signal AP
6	SNS_3V	OUT	Power supply (+3.3V)
7	GND	-	GND
8	LF_HP_SNS	IN	Feed roller HP sensor output signal
9	GND	-	GND
10	LF_ENCA	IN	Feed roller encoder sensor output signal A
11	RGV5	OUT	Power supply (+5V)
12	LF_ENCB	IN	Feed roller encoder sensor output signal B

T-6-36

J3301 (Ink tank ROM PCB, Ink detection sensor)			
Pin Number	Signal name	IN/OUT	Function
1	TANK_DAT6_L	IN/OUT	Ink tank data signal 6
2	TANK_DAT7_L	IN/OUT	Ink tank data signal 7
3	TANK_3V	OUT	Power supply (+3.3V)
4	TANK_DAT8	IN/OUT	Ink tank data signal 8
5	GND	-	GND
6	TANK_CLK	OUT	Ink tank clock signal
7	TANK_DAT9	IN/OUT	Ink tank data signal 9
8	TANK_DAT10	IN/OUT	Ink tank data signal 10
9	TANK_3V	OUT	Power supply (+3.3V)
10	TANK_DAT11	IN/OUT	Ink tank data signal 11
11	GND	-	GND
12	TANK_CLK	OUT	Ink tank clock signal
13	GND	-	GND
14	INK_SNS6_L	IN	Ink detection sensor output signal 6
15	INK_SNS7_L	IN	Ink detection sensor output signal 7
16	INK_SNS8	IN	Ink detection sensor output signal 8
17	GND	-	GND
18	INK_SNS9	IN	Ink detection sensor output signal 9
19	INK_SNS10	IN	Ink detection sensor output signal 10
20	INK_SNS11	IN	Ink detection sensor output signal 11

T-6-37

J3401 (Connect to Carriage PCB J11)			
Pin Number	Signal name	IN/OUT	Function
1	GND	-	GND
2	GND	-	GND
3	GND	-	GND
4	GND	-	GND
5	GND	-	GND
6	GND	-	GND
7	GND	-	GND
8	VH	OUT	Power supply (+21.5V)
9	VH	OUT	Power supply (+21.5V)
10	VH	OUT	Power supply (+21.5V)
11	VH	OUT	Power supply (+21.5V)
12	VH	OUT	Power supply (+21.5V)
13	VH	OUT	Power supply (+21.5V)

J3401 (Connect to Carriage PCB J11)			
Pin Number	Signal name	IN/OUT	Function
14	VH	OUT	Power supply (+21.5V)
15	VH	OUT	Power supply (+21.5V)
16	VH	OUT	Power supply (+21.5V)
17	VH	OUT	Power supply (+21.5V)
18	VH	OUT	Power supply (+21.5V)
19	VH	OUT	Power supply (+21.5V)
20	VH	OUT	Power supply (+21.5V)
21	VH	OUT	Power supply (+21.5V)
22	VH	OUT	Power supply (+21.5V)
23	VH	OUT	Power supply (+21.5V)
24	GND	-	GND
25	GND	-	GND
26	GND	-	GND
27	GND	-	GND
28	GND	-	GND
29	GND	-	GND
30	GND	-	GND

T-6-38

J3402 (Connect to Carriage PCB J21)			
Pin Number	Signal name	IN/OUT	Function
1	GND	-	GND
2	GND	-	GND
3	GND	-	GND
4	GND	-	GND
5	GND	-	GND
6	GND	-	GND
7	VH	OUT	Power supply (+21.5V)
8	VH	OUT	Power supply (+21.5V)
9	VH	OUT	Power supply (+21.5V)
10	VH	OUT	Power supply (+21.5V)
11	VH	OUT	Power supply (+21.5V)
12	VH	OUT	Power supply (+21.5V)
13	VH	OUT	Power supply (+21.5V)
14	VH	OUT	Power supply (+21.5V)
15	VH	OUT	Power supply (+21.5V)
16	VH	OUT	Power supply (+21.5V)
17	VH	OUT	Power supply (+21.5V)
18	VH	OUT	Power supply (+21.5V)
19	VH	OUT	Power supply (+21.5V)
20	VH	OUT	Power supply (+21.5V)
21	VH	OUT	Power supply (+21.5V)
22	HD1_VHFBH	IN	VH feed back voltage +
23	HD1_VHFBG	IN	VH feed back voltage -
24	GND	-	GND
25	GND	-	GND
26	GND	-	GND
27	GND	-	GND
28	GND	-	GND
29	GND	-	GND
30	GND	-	GND

T-6-39

J3411 (Temperature/humidity detection sensor)			
Pin Number	Signal name	IN/OUT	Function
1	TH2_OUT	IN	Thermistor output signal
2	GND	-	GND
3	RHV_OUT	IN	Temperature/humidity detection sensor output signal
4	SNS_5V		Power supply (+5V)

T-6-40

J3501 (Connect to Carriage PCB J12)			
Pin Number	Signal name	IN/OUT	Function
1	GND	-	GND
2	GND	-	GND
3	H-DASH LICC2 B	OUT	Analogue switch A/D trigger signal
4	GND	-	GND
5	H0-D-DATA-7-OD	OUT	Odd head R data signal 7(D)
6	GND	-	GND
7	H0-E-HE-8	OUT	Head R heat enable signal 8(E)
8	GND	-	GND
9	H0-E-DATA-8-OD	OUT	Odd head R data signal 8(E)
10	GND	-	GND
11	H0-F-DATA-10-OD	OUT	Odd head R data signal 10(F)
12	GND	-	GND
13	H0-E-DATA-9-OD	OUT	Odd head R data signal 9(E)
14	GND	-	GND
15	H0-F-HE-10	OUT	Head R heat enable signal 10(F)
16	GND	-	GND
17	H0-F-DATA-11-OD	OUT	Odd head R data signal 11(F)
18	GND	-	GND
19	H0-F-HE-11	OUT	Head R heat enable signal 11(F)
20	GND	-	GND
21	H0-F-DATA-11-EV	OUT	Even head R data signal 11(F)
22	GND	-	GND
23	H0-F-DATA-10-EV	OUT	Even head R data signal 10(F)
24	GND	-	GND
25	H0-E-HE-9	OUT	Head R heat enable signal 9(E)
26	GND	-	GND
27	H0-E-DATA-9-EV	OUT	Even head R data signal 9(E)
28	GND	-	GND
29	GND	-	GND
30	GND	-	GND
31	GND	-	GND
32	GND	-	GND
33	GND	-	GND
34	GND	-	GND
35	H0-A-DATA-0-OD	OUT	Odd head R data signal 0(A)
36	GND	-	GND
37	H0-A-DATA-1-OD	OUT	Odd head R data signal 1(A)
38	GND	-	GND
39	H0-B-HE-2	OUT	Head R heat enable signal 2(B)
40	GND	-	GND
41	H0-B-DATA-2-OD	OUT	Odd head R data signal 2(B)
42	GND	-	GND
43	H0-B-DATA-3-OD	OUT	Odd head R data signal 3(B)
44	GND	-	GND
45	H0-C-HE-4	OUT	Head R heat enable signal 4(C)
46	GND	-	GND
47	H0-C-DATA-4-OD	OUT	Odd head R data signal 4(C)
48	SNS_5V	OUT	Power supply (+5V)
49	GND	-	GND
50	GND	-	GND

T-6-41

J3601 (Connect to Carriage PCB J13)			
Pin Number	Signal name	IN/OUT	Function
1	H0-E-DATA-8	OUT	Even head R data signal 8(E)
2	GND	-	GND
3	H0-D-HE-7	OUT	Head R heat enable signal 7(D)
4	GND	-	GND

J3601 (Connect to Carriage PCB J13)			
Pin Number	Signal name	IN/OUT	Function
5	H0-D-DATA-7-EV	OUT	Even head R data signal 7(D)
6	GND	-	GND
7	H0-D-DATA-6-EB	OUT	Even head R data signal 6(D)
8	GND	-	GND
9	H0-D-DATA-6-OD	OUT	Odd head R data signal 6(D)
10	GND	-	GND
11	H0-D-HE-6	OUT	Head R heat enable signal 6(D)
12	GND	-	GND
13	H0-C-HE-5	OUT	Head R heat enable signal 5(C)
14	GND	-	GND
15	H0-C-DATA-5-OD	OUT	Odd head R data signal 5(C)
16	GND	-	GND
17	H0-DSOUT2	IN	Head R temperature output 2
18	GND	-	GND
19	H0-DSOUT1	IN	Head R temperature output 1
20	GND	-	GND
21	GND	-	GND
22	LICSEL0	OUT	Head R analogue switch clock signal
23	LICSEL2	OUT	Head R analogue switch latch signal
24	LICSEL1	OUT	Head R analogue switch data signal
25	GND	-	GND
26	GND	-	GND
27	H0_CLK	OUT	Head R data clock signal
28	GND	-	GND
29	H0-LT	OUT	Head R data latch signal
30	HEAD_3V	OUT	Power supply (+3V)
31	HEAD_3V	OUT	Power supply (+3V)
32	GND	-	GND
33	H0-C-DATA-5-EV	OUT	Even head R data signal 5(C)
34	GND	-	GND
35	H0-B-HE-3	OUT	Head R heat enable signal 8(E)
36	GND	-	GND
37	H0-C-DATA-4-EV	OUT	Even head R data signal 4(C)
38	GND	-	GND
39	H0-B-DATA-3-EV	OUT	Even head R data signal 3(B)
40	GND	-	GND
41	H0-B-DATA-2-EV	OUT	Even head R data signal 2(B)
42	GND	-	GND
43	H0-A-DATA-1-EV	OUT	Even head R data signal 1(A)
44	GND	-	GND
45	H0-A-HE-1	OUT	Head R heat enable signal 8(E)
46	GND	-	GND
47	H0-A-DATA-0-EV	OUT	Even head R data signal 0(A)
48	GND	-	GND
49	H0-A-HE-0_B	OUT	Head R heat enable signal 8(E)
50	GND	-	GND

T-6-42

J3701 (Connect to Carriage PCB J22)			
Pin Number	Signal name	IN/OUT	Function
1	H1-D-DATA-7-OD	OUT	Odd head L data signal 7(D)
2	GND	-	GND
3	H1-E-HE-8	OUT	Head L heat enable signal 8(E)
4	GND	-	GND
5	H1-E-DATA-8-OD	OUT	Odd head L data signal 8(E)
6	GND	-	GND
7	H1-F-DATA-10-OD	OUT	Odd head L data signal 10(F)
8	GND	-	GND
9	H1-E-DATA-9-OD	OUT	Odd head L data signal 9(E)
10	GND	-	GND

J3701 (Connect to Carriage PCB J22)			
Pin Number	Signal name	IN/OUT	Function
11	H1-F-HE-10	OUT	Head L heat enable signal 10(F)
12	GND	-	GND
13	H1-F-DATA-11-OD	OUT	Odd head L data signal 11(F)
14	GND	-	GND
15	H1-F-HE-11	OUT	Head L heat enable signal 11(F)
16	GND	-	GND
17	H1-F-DATA-11-EV	OUT	Even head L data signal 11(F)
18	GND	-	GND
19	H1-F-DATA-10-EV	OUT	Even head L data signal 10(F)
20	GND	-	GND
21	H1-E-HE-9	OUT	Head L heat enable signal 9(E)
22	GND	-	GND
23	H1-E-DATA-9-EV	OUT	Even head L data signal 9(E)
24	H1-DLD LICC2	OUT	Head L analogue switch latch signal
25	H1-DATA LICC2	OUT	Head L analogue switch data signal
26	H1-DASLK LICC2	OUT	Head L analogue switch clock signal
27	GND	-	GND
28	H1-DSOUT2	IN	Head L temperature output 2
29	H1-DSOUT1	IN	Head L temperature output 1
30	GND	-	GND
31	PWLED4_ON	OUT	Multi sensor LED 4 drive signal
32	PWLED3_ON	OUT	Multi sensor LED 3 drive signal
33	PWLED2_ON	OUT	Multi sensor LED 2 drive signal
34	PWLED1_ON	OUT	Multi sensor LED 1 drive signal
35	GND	-	GND
36	MLT_SNS_1IN	IN	Multi sensor signal 1
37	MLT_SNS_2IN	IN	Multi sensor signal 2
38	GND	-	GND
39	H1-B-DATA-2-OD	OUT	Odd head L data signal 2(B)
40	GND	-	GND
41	H1-B-DATA-3-OD	OUT	Odd head L data signal 3(B)
42	GND	-	GND
43	H1-C-HE-4	OUT	Head L heat enable signal 4(C)
44	GND	-	GND
45	H1-C-DATA-4-OD	OUT	Odd head L data signal 4(C)
46	SNS_5V	OUT	Power supply (+5V)
47	ENCODER_B	IN	Carriage encoder output signalB
48	SNS_5V	OUT	Power supply (+5V)
49	ENCODER_A	IN	Carriage encoder output signalA
50	GND	-	GND

T-6-43

J3801 (Connect to Carriage PCB J23)			
Pin Number	Signal name	IN/OUT	Function
1	H1-E-DATA-8-EV	OUT	Even head L data signal 8(E)
2	GND	-	GND
3	H1-D-HE-7	OUT	Head L heat enable signal 7(D)
4	GND	-	GND
5	IO-ASIC_SDA	IN/OUT	Head ROM control signal (data)
6	GND	-	GND
7	H1-D-DATA-7-EV	OUT	Even head L data signal 7(D)
8	GND	-	GND
9	H1-D-DATA-6-EV	OUT	Even head L data signal 6(D)
10	GND	-	GND
11	H1-D-DATA-6-OD	OUT	Odd head L data signal 6(D)
12	GND	-	GND
13	IO-ASIC_SCL	IN/OUT	Head ROM control signal (clock)
14	GND	-	GND
15	H1-D-HE-6	OUT	Head L heat enable signal 6(D)
16	GND	-	GND

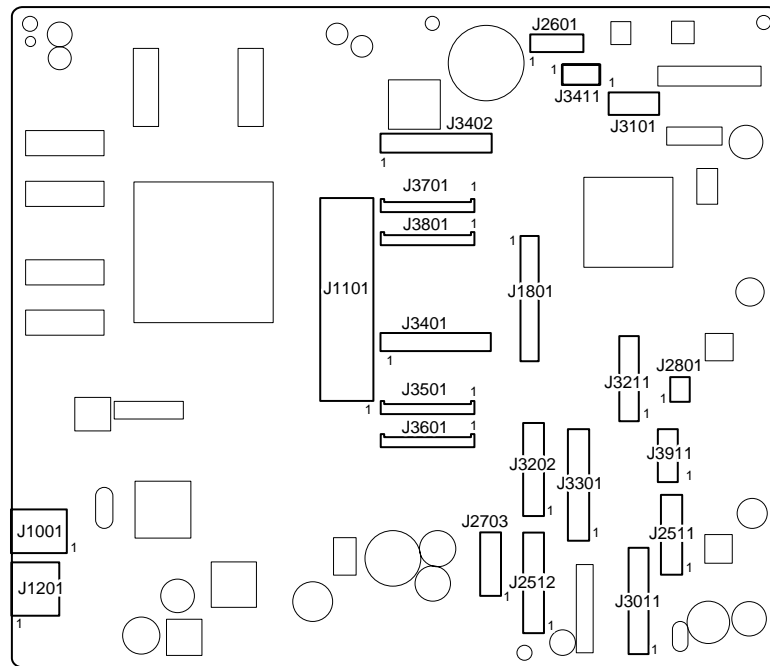
J3801 (Connect to Carriage PCB J23)			
Pin Number	Signal name	IN/OUT	Function
17	H1-C-HE-5	OUT	Head L heat enable signal 5(C)
18	GND	-	GND
19	H1-C-DATA-5-OD	OUT	Odd head L data signal 5(C)
20	GND	-	GND
21	H1_CLK	OUT	Head L clock signal
22	GND	-	GND
23	HEAD_3V	OUT	Power supply (+3V)
24	GND	-	GND
25	H1_LT	OUT	Head L latch signal
26	H-DASH_LICC2_B	OUT	Analogue switch A/D trigger signal
27	H1-C-DATA-5-EV	OUT	Even head L data signal 5(C)
28	GND	-	GND
29	H1-B-HE-3	OUT	Head L heat enable signal 3(B)
30	GND	-	GND
31	H1-C-DATA-4-EV	OUT	Even head L data signal 4(C)
32	GND	-	GND
33	H1-B-DATA-3-EV	OUT	Even head L data signal 3(B)
34	GND	-	GND
35	H1-B-DATA-2-EV	OUT	Even head L data signal 2(B)
36	GND	-	GND
37	H1-A-DATA-1-EV	OUT	Even head L data signal 1(A)
38	GND	-	GND
39	H1-A-HE-1	OUT	Head L heat enable signal 1(A)
40	GND	-	GND
41	H1-A-DATA-0-EV	OUT	Even head L data signal 0(A)
42	GND	-	GND
43	H1-A-HE-0	OUT	Head L heat enable signal 0(A)
44	GND	-	GND
45	H1-A-DATA-0-OD	OUT	Odd head L data signal 0(A)
46	GND	-	GND
47	H1-A-DATA-1-OD	OUT	Odd head L data signal 1(A)
48	GND	-	GND
49	H1-B-HE-2	OUT	Head L heat enable signal 2(B)
50	GND	-	GND

T-6-44

J3911 (Top cover sensor, Ink tank cover switch, Cutter HP sensor)			
Pin Number	Signal name	IN/OUT	Function
1	TANK_COVER_SW	IN	Ink tank cover switch output signal
2	GND	-	GND
3	SNS_3V_1	OUT	Power supply (+3.3V)
4	GND	-	GND
5	TOP_COVER_SNS	IN	Top cover sensor output signal
6	SNS_3V_1	OUT	Power supply (+3.3V)
7	GND	-	GND
8	CUTTER_L_SNS	IN	Cutter HP sensor signal

6.2.3 Main controller PCB

iPF6000S



F-6-3

T-6-45

J1001 (USB)			
Pin Number	Signal name	IN/OUT	Function
1	VBUS	IN	USB VBUS (+5V)
2	D-	IN/OUT	USB data (-)
3	D+	IN/OUT	USB data (+)
4	GND	-	USB GND
5	GND	-	GND (Connector shell)
6	GND	-	GND (Connector shell)

T-6-46

J1101 (Connect to HDD expansion PCB)			
Pin Number	Signal name	IN/OUT	Function
1	GND	-	GND
2	GND	-	GND
3	GND	-	GND
4	+3.3V	OUT	Power supply (+3.3V)
5	+3.3V	OUT	Power supply (+3.3V)
6	+3.3V	OUT	Power supply (+3.3V)
7	+3.3V	OUT	Power supply (+3.3V)
8	+3.3V	OUT	Power supply (+3.3V)
9	+3.3V	OUT	Power supply (+3.3V)
10	N.C.	-	N.C.
11	GND	-	GND
12	PME#	IN	Power management enable signal
13	INTA#	IN	Interrupt signal
14	GND	-	GND
15	RST#	OUT	PCI reset signal
16	CLK	OUT	PCI clock signal
17	GNT#	OUT	Grant signal
18	GND	-	GND
19	REQ#	IN	Request signal
20	AD31	IN/OUT	Address and data signal 31
21	AD30	IN/OUT	Address and data signal 30
22	AD29	IN/OUT	Address and data signal 29

J1101 (Connect to HDD expansion PCB)			
Pin Number	Signal name	IN/OUT	Function
23	AD28	IN/OUT	Address and data signal 28
24	GND	-	GND
25	AD27	IN/OUT	Address and data signal 27
26	AD26	IN/OUT	Address and data signal 26
27	AD25	IN/OUT	Address and data signal 25
28	AD24	IN/OUT	Address and data signal 24
29	CBE3#	IN/OUT	Bus command and byte enable signal 3
30	IDSEL	OUT	Initialization device select signal
31	GND	-	GND
32	GND	-	GND
33	AD23	IN/OUT	Address and data signal 23
34	AD22	IN/OUT	Address and data signal 22
35	AD21	IN/OUT	Address and data signal 21
36	AD20	IN/OUT	Address and data signal 20
37	GND	-	GND
38	AD19	IN/OUT	Address and data signal 19
39	AD18	IN/OUT	Address and data signal 18
40	AD17	IN/OUT	Address and data signal 17
41	AD16	IN/OUT	Address and data signal 16
42	CBE2#	OUT	Bus command and byte enable signal 2
43	GND	-	GND
44	FRAME#	IN/OUT	Cycle frame signal
45	IRDY#	IN/OUT	Initiator redy signal
46	TRDY#	IN/OUT	Target redy signal
47	DEVSEL#	IN/OUT	Device select signal
48	GND	-	GND
49	STOP#	IN/OUT	Stop signal
50	LOCK#	IN/OUT	Lock signal
51	PERR#	IN/OUT	Parity error signal
52	SERR#	IN/OUT	System error signal
53	PAR	IN/OUT	Parity signal
54	CBE1#	IN/OUT	Bus command and byte enable signal 1
55	GND	-	GND
56	GND	-	GND
57	AD15	IN/OUT	Address and data signal 15
58	AD14	IN/OUT	Address and data signal 14
59	AD13	IN/OUT	Address and data signal 13
60	AD12	IN/OUT	Address and data signal 12
61	GND	-	GND
62	AD11	IN/OUT	Address and data signal 11
63	AD10	IN/OUT	Address and data signal 10
64	AD9	IN/OUT	Address and data signal 09
65	AD8	IN/OUT	Address and data signal 08
66	CBE0#	IN/OUT	Bus command and byte enable signal 0
67	GND	-	GND
68	AD7	IN/OUT	Address and data signal 07
69	AD6	IN/OUT	Address and data signal 06
70	AD5	IN/OUT	Address and data signal 05
71	AD4	IN/OUT	Address and data signal 04
72	GND	-	GND
73	AD3	IN/OUT	Address and data signal 03
74	AD2	IN/OUT	Address and data signal 02
75	AD1	IN/OUT	Address and data signal 01
76	AD0	IN/OUT	Address and data signal 00
77	GND	-	GND
78	HDD_LED	OUT	HDD LED signal
79	+5V	OUT	Power supply (+5V)
80	+5V	OUT	Power supply (+5V)
81	+5V	OUT	Power supply (+5V)

J1101 (Connect to HDD expansion PCB)			
Pin Number	Signal name	IN/OUT	Function
82	+3.3V	OUT	Power supply (+3.3V)
83	+3.3V	OUT	Power supply (+3.3V)
84	+3.3V	OUT	Power supply (+3.3V)
85	GND	-	GND
86	GND	-	GND
87	GND	-	GND
88	GND	-	GND

T-6-47

J1201 (Network)			
Pin Number	Signal name	IN/OUT	Function
1	TX+	OUT	Ethernet data TX line (+)
2	TX-	OUT	Ethernet data TX line (-)
3	RX+	IN	Ethernet data RX line (+)
4	-	-	Not used
5	-	-	Not used
6	RX-	IN	Ethernet data RX line (-)
7	-	-	Not used
8	-	-	Not used
9	GREEN_LED_C	OUT	Link LED (green:100Mb/s) cathode terminal
10	GREEN_LED_A	OUT	Link LED (green:100Mb/s) anode terminal
11	YELLOW_LED_C	OUT	Link LED (yellow:10Mb/s) cathode terminal
12	YELLOW_LED_A	OUT	Link LED (yellow:10Mb/s) anode terminal

T-6-48

J1801 (Connect to Power supply)			
Pin Number	Signal name	IN/OUT	Function
1	HD1_VHFBH	OUT	VH feedback voltage +
2	HD1_VHFBG	OUT	VH feedback voltage -
3	VH	IN	Power supply (+21.5V)
4	GND	-	GND
5	VH	IN	Power supply (+21.5V)
6	GND	-	GND
7	RGV20(VCC)	IN	Power supply (+21.5V)
8	GND	-	GND
9	VM	IN	Power supply (+26V)
10	GND	-	GND
11	VM	IN	Power supply (+26V)
12	GND	-	GND
13	VH_ENB	OUT	VH power supply ON/OFF signal
14	PW_CONT	OUT	Normal/power saving switch signal

T-6-49

J2511 (Spur motor, Spur cam sensor, Mist fan, Cutter motor, Cutter right detection sensor)			
Pin Number	Signal name	IN/OUT	Function
1	SNS_3V_1	OUT	Power supply (+3.3V)
2	GND	-	GND
3	CUTTER_R_SNS_R	IN	Cutter right detection sensor signal
4	CUTTER_OUTA	OUT	Cutter motor driver signal A
5	CUTTER_OUTB	OUT	Cutter motor driver signal B
6	SNS_3V_1	OUT	Power supply (+3.3V)
7	GND	-	GND
8	HAKUSHA_CAM_SNS_R	IN	Spur cam sensor output signal
9	HAKUSHA_MOTOR_AM	OUT	Spur motor drive signal AM
10	HAKUSHA_MOTOR_AP	OUT	Spur motor drive signal AP
11	FAN_VM	OUT	Power supply (+26V)
12	MIST_FAN_LOCK	IN	Mist fan lock signal
13	MIST_FAN_PWM	OUT	Mist fan duty control signal
14	GND	-	GND

T-6-50

J2512 (Suction fan, Maintenance cartridge relay PCB, Paper detection sensor, Lift cam sensor)			
Pin Number	Signal name	IN/OUT	Function
1	FAN_VM	OUT	Power supply (+26V)
2	PLATEN_FAN_LOCK	IN	Suction fan lock signal
3	PLATEN_FAN_PWM	OUT	Suction fan duty control signal
4	GND	-	GND
5	MENT_SDA	IN/OUT	Maintenance cartridge rom control signal (data)
6	MENT_SCL	IN/OUT	Maintenance cartridge rom control signal (clock)
7	GND	-	GND
8	MENT_3V		Power supply (+3.3V)
9	SNS_3V_1	OUT	Power supply (+3.3V)
10	N.C.	-	N.C.
11	N.C.	-	N.C.
12	N.C.	-	N.C.
13	GND	-	GND
14	PE_SNS	IN	Paper detection sensor output signal
15	SNS_3V_1	OUT	Power supply (+3.3V)
16	GND	-	GND
17	LIFT_CAM_SNS	IN	Lift cam sensor output signal

T-6-51

J2601 (Connect to Operation panel)			
Pin Number	Signal name	IN/OUT	Function
1	POWER_ON	IN	Power switch signal
2	PM_START	OUT	Power supply (+5V)
3	BUZZER	OUT	Buzzer control signal
4	PDODATA	OUT	Panel IC control signal
5	+3.3V	OUT	Power supply (+3.3V)
6	PDI_DATA	IN	Panel IC data signal
7	GND	-	GND
8	/PANEL RESET	OUT	Panel reset signal
9	GND	-	GND
10	PDOPCLK	OUT	Panel IC clock signal
11	SNS_5V	OUT	Power supply (+5V)
12	/PDOCS_L	OUT	Panel supply chip select signal

T-6-52

J2703 (Auto feed roll unit)			
Pin Number	Signal name	IN/OUT	Function
1	OPT_5V	OUT	Power supply (+5V)
2	GND	-	GND
3	ROLL_CAM_SNS	IN	Roll cam sensor signal
4	ROLL_PAPER_SNS	IN	Roll media sensor signal
5	ROLL_UNIT	IN	Roll unit detection signal
6	VM	OUT	Power supply (+26V)
7	VM	OUT	Power supply (+26V)
8	/ROLL_SLEEP	OUT	Roll motor driver sleep signal
9	ROLL_STB	OUT	Roll motor driver strobe signal
10	ROLL_DAT	OUT	Roll motor driver data signal
11	ROLL_CLK	OUT	Roll motor driver clock signal
12	GND	-	GND
13	GND	-	GND

T-6-53

J2801 (Feed motor)			
Pin Number	Signal name	IN/OUT	Function
1	LF_OUTB	OUT	Feed motor drive signal B
2	LF_OUTA	OUT	Feed motor drive signal A

T-6-54

J3011 (Purge motor, Pump encoder sensor, Pump cam sensor, Lift motor, Head management sensor)			
Pin Number	Signal name	IN/OUT	Function
1	LIFTOUTCOM	OUT	Lift motor power supply
2	LIFT_OUTAP	OUT	Lift motor drive signal AP
3	LIFT_OUTAM	OUT	Lift motor drive signal AM
4	LIFT_OUTBP	OUT	Lift motor drive signal BP
5	LIFT_OUTBM	OUT	Lift motor drive signal BM
6	GND	-	GND
7	FUTO_CLMP	OUT	Head management sensor unit clamp signal
8	FUTO_XLEDON	OUT	Head management sensor unit LED ON/OFF signal
9	SNS_5V		Power supply (+5V)
10	FUTO_XCMP0	IN	Head management sensor unit skew detection signal
11	PUMP_OUTB	OUT	Purge motor drive signal B
12	PUMP_OUTA	OUT	Purge motor drive signal A
13	GND	-	GND
14	PUMP_ENCA	IN	Pump encoder sensor output signal A
15	SNS_5V		Power supply (+5V)
16	PUMP_ENCB	IN	Pump encoder sensor output signal B
17	PUMP_CAM_3V	OUT	Power supply (+3.3V)
18	GND	-	GND
19	PUMP_CAM_SNS	IN	Pump cam sensor output signal

T-6-55

J3101 (Carriage motor)			
Pin Number	Signal name	IN/OUT	Function
1	CR_HWP	IN	Carriage motor hole device W-phase + signal
2	CR_HWM	IN	Carriage motor hole device W-phase - signal
3	CR_W	OUT	Carriage motor W-phase drive signal
4	CR_HVM	IN	Carriage motor hole device V-phase - signal
5	CR_U	OUT	Carriage motor U-phase drive signal
6	GND	-	GND
7	CR_V	OUT	Carriage motor V-phase drive signal
8	SNS_5V		Power supply (+5V)
9	N.C.	-	N.C
10	CR_HVP	IN	Carriage motor hole device V-phase + signal
11	CR_HUM	IN	Carriage motor hole device U-phase - signal
12	CR_HUP	IN	Carriage motor hole device U-phase + signal

T-6-56

J3202 (Ink tank ROM PCB, Ink detection sensor)			
Pin Number	Signal name	IN/OUT	Function
1	TANK_DAT0	IN/OUT	Ink tank data signal 0
2	TANK_DAT1	IN/OUT	Ink tank data signal 1
3	TANK_3V	OUT	Power supply (+3.3V)
4	TANK_DAT2	IN/OUT	Ink tank data signal 2
5	GND	-	GND
6	TANK_CLK	OUT	Ink tank clock signal
7	TANK_DAT3	IN/OUT	Ink tank data signal 3
8	TANK_DAT4	IN/OUT	Ink tank data signal 4
9	TANK_3V	OUT	Power supply (+3.3V)
10	TANK_DAT5	IN/OUT	Ink tank data signal 5
11	GND	-	GND
12	TANK_CLK	OUT	Ink tank clock signal
13	GND	-	GND
14	INK_SNS0	IN	Ink detection sensor output signal 0
15	INK_SNS1	IN	Ink detection sensor output signal 1
16	INK_SNS2	IN	Ink detection sensor output signal 2
17	GND	-	GND
18	INK_SNS3	IN	Ink detection sensor output signal 3

J3202 (Ink tank ROM PCB, Ink detection sensor)			
Pin Number	Signal name	IN/OUT	Function
19	INK_SNS4	IN	Ink detection sensor output signal 4
20	INK_SNS5	IN	Ink detection sensor output signal 5

T-6-57

J3211 (Valve motor, Valve open/closed detection sensor, Valve open/closed detection sensor 2, Feed roller HP sensor, Feed roller encoder sensor)			
Pin Number	Signal name	IN/OUT	Function
1	SNS_3V	OUT	Power supply (+3.3V)
2	GND	-	GND
3	VALVE_DETECT_SENSOR	IN	Valve open/closed detection sensor output signal
4	SNS_3V	OUT	Power supply (+3.3V)
5	GND	-	GND
6	VALVE_DETECT_SENSOR 2	IN	Valve open/closed detection sensor 2 output signal
7	VALVE_MOTOR_AM	OUT	Valve motor drive signal AM
8	VALVE_MOTOR_AP	OUT	Valve motor drive signal AP
9	SNS_3V	OUT	Power supply (+3.3V)
10	GND	-	GND
11	LF_HP_SNS	IN	Feed roller HP sensor output signal
12	GND	-	GND
13	LF_ENCA	IN	Feed roller encoder sensor output signal A
14	RGV5	OUT	Power supply (+5V)
15	LF_ENCB	IN	Feed roller encoder sensor output signal B

T-6-58

J3301 (Ink tank ROM PCB, Ink detection sensor)			
Pin Number	Signal name	IN/OUT	Function
1	TANK_DAT6_L	IN/OUT	Ink tank data signal 6
2	TANK_DAT7_L	IN/OUT	Ink tank data signal 7
3	TANK_3V	OUT	Power supply (+3.3V)
4	TANK_DAT8	IN/OUT	Ink tank data signal 8
5	GND	-	GND
6	TANK_CLK	OUT	Ink tank clock signal
7	TANK_DAT9	IN/OUT	Ink tank data signal 9
8	TANK_DAT10	IN/OUT	Ink tank data signal 10
9	TANK_3V	OUT	Power supply (+3.3V)
10	TANK_DAT11	IN/OUT	Ink tank data signal 11
11	GND	-	GND
12	TANK_CLK	OUT	Ink tank clock signal
13	GND	-	GND
14	INK_SNS6_L	IN	Ink detection sensor output signal 6
15	INK_SNS7_L	IN	Ink detection sensor output signal 7
16	INK_SNS8	IN	Ink detection sensor output signal 8
17	GND	-	GND
18	INK_SNS9	IN	Ink detection sensor output signal 9
19	INK_SNS10	IN	Ink detection sensor output signal 10
20	INK_SNS11	IN	Ink detection sensor output signal 11

T-6-59

J3401 (Connect to Carriage PCB J11)			
Pin Number	Signal name	IN/OUT	Function
1	GND	-	GND
2	GND	-	GND
3	GND	-	GND
4	GND	-	GND
5	GND	-	GND
6	GND	-	GND
7	GND	-	GND
8	VH	OUT	Power supply (+21.5V)

J3401 (Connect to Carriage PCB J11)			
Pin Number	Signal name	IN/OUT	Function
9	VH	OUT	Power supply (+21.5V)
10	VH	OUT	Power supply (+21.5V)
11	VH	OUT	Power supply (+21.5V)
12	VH	OUT	Power supply (+21.5V)
13	VH	OUT	Power supply (+21.5V)
14	VH	OUT	Power supply (+21.5V)
15	VH	OUT	Power supply (+21.5V)
16	VH	OUT	Power supply (+21.5V)
17	VH	OUT	Power supply (+21.5V)
18	VH	OUT	Power supply (+21.5V)
19	VH	OUT	Power supply (+21.5V)
20	VH	OUT	Power supply (+21.5V)
21	VH	OUT	Power supply (+21.5V)
22	VH	OUT	Power supply (+21.5V)
23	VH	OUT	Power supply (+21.5V)
24	GND	-	GND
25	GND	-	GND
26	GND	-	GND
27	GND	-	GND
28	GND	-	GND
29	GND	-	GND
30	GND	-	GND

T-6-60

J3402 (Connect to Carriage PCB J21)			
Pin Number	Signal name	IN/OUT	Function
1	GND	-	GND
2	GND	-	GND
3	GND	-	GND
4	GND	-	GND
5	GND	-	GND
6	GND	-	GND
7	VH	OUT	Power supply (+21.5V)
8	VH	OUT	Power supply (+21.5V)
9	VH	OUT	Power supply (+21.5V)
10	VH	OUT	Power supply (+21.5V)
11	VH	OUT	Power supply (+21.5V)
12	VH	OUT	Power supply (+21.5V)
13	VH	OUT	Power supply (+21.5V)
14	VH	OUT	Power supply (+21.5V)
15	VH	OUT	Power supply (+21.5V)
16	VH	OUT	Power supply (+21.5V)
17	VH	OUT	Power supply (+21.5V)
18	VH	OUT	Power supply (+21.5V)
19	VH	OUT	Power supply (+21.5V)
20	VH	OUT	Power supply (+21.5V)
21	VH	OUT	Power supply (+21.5V)
22	HD1_VHFBH	IN	VH feed back voltage +
23	HD1_VHFBG	IN	VH feed back voltage -
24	GND	-	GND
25	GND	-	GND
26	GND	-	GND
27	GND	-	GND
28	GND	-	GND
29	GND	-	GND
30	GND	-	GND

T-6-61

J3411 (Temperature/humidity detection sensor)			
Pin Number	Signal name	IN/OUT	Function
1	TH2_OUT	IN	Thermistor output signal
2	GND	-	GND
3	RHV_OUT	IN	Temperature/humidity detection sensor output signal
4	SNS_5V		Power supply (+5V)

T-6-62

J3501 (Connect to Carriage PCB J12)			
Pin Number	Signal name	IN/OUT	Function
1	GND	-	GND
2	GND	-	GND
3	H-DASH LICC2 B	OUT	Analogue switch A/D trigger signal
4	GND	-	GND
5	H0-D-DATA-7-OD	OUT	Odd head R data signal 7(D)
6	GND	-	GND
7	H0-E-HE-8	OUT	Head R heat enable signal 8(E)
8	GND	-	GND
9	H0-E-DATA-8-OD	OUT	Odd head R data signal 8(E)
10	GND	-	GND
11	H0-F-DATA-10-OD	OUT	Odd head R data signal 10(F)
12	GND	-	GND
13	H0-E-DATA-9-OD	OUT	Odd head R data signal 9(E)
14	GND	-	GND
15	H0-F-HE-10	OUT	Head R heat enable signal 10(F)
16	GND	-	GND
17	H0-F-DATA-11-OD	OUT	Odd head R data signal 11(F)
18	GND	-	GND
19	H0-F-HE-11	OUT	Head R heat enable signal 11(F)
20	GND	-	GND
21	H0-F-DATA-11-EV	OUT	Even head R data signal 11(F)
22	GND	-	GND
23	H0-F-DATA-10-EV	OUT	Even head R data signal 10(F)
24	GND	-	GND
25	H0-E-HE-9	OUT	Head R heat enable signal 9(E)
26	GND	-	GND
27	H0-E-DATA-9-EV	OUT	Even head R data signal 9(E)
28	GND	-	GND
29	GND	-	GND
30	GND	-	GND
31	GND	-	GND
32	GND	-	GND
33	GND	-	GND
34	GND	-	GND
35	H0-A-DATA-0-OD	OUT	Odd head R data signal 0(A)
36	GND	-	GND
37	H0-A-DATA-1-OD	OUT	Odd head R data signal 1(A)
38	GND	-	GND
39	H0-B-HE-2	OUT	Head R heat enable signal 2(B)
40	GND	-	GND
41	H0-B-DATA-2-OD	OUT	Odd head R data signal 2(B)
42	GND	-	GND
43	H0-B-DATA-3-OD	OUT	Odd head R data signal 3(B)
44	GND	-	GND
45	H0-C-HE-4	OUT	Head R heat enable signal 4(C)
46	GND	-	GND
47	H0-C-DATA-4-OD	OUT	Odd head R data signal 4(C)
48	SNS_5V	OUT	Power supply (+5V)
49	GND	-	GND
50	GND	-	GND

T-6-63

J3601 (Connect to Carriage PCB J13)			
Pin Number	Signal name	IN/OUT	Function
1	H0-E-DATA-8	OUT	Even head R data signal 8(E)
2	GND	-	GND
3	H0-D-HE-7	OUT	Head R heat enable signal 7(D)
4	GND	-	GND
5	H0-D-DATA-7-EV	OUT	Even head R data signal 7(D)
6	GND	-	GND
7	H0-D-DATA-6-EB	OUT	Even head R data signal 6(D)
8	GND	-	GND
9	H0-D-DATA-6-OD	OUT	Odd head R data signal 6(D)
10	GND	-	GND
11	H0-D-HE-6	OUT	Head R heat enable signal 6(D)
12	GND	-	GND
13	H0-C-HE-5	OUT	Head R heat enable signal 5(C)
14	GND	-	GND
15	H0-C-DATA-5-OD	OUT	Odd head R data signal 5(C)
16	GND	-	GND
17	H0-DSOUT2	IN	Head R temperature output 2
18	GND	-	GND
19	H0-DSOUT1	IN	Head R temperature output 1
20	GND	-	GND
21	GND	-	GND
22	LICSEL0	OUT	Head R analogue switch clock signal
23	LICSEL2	OUT	Head R analogue switch latch signal
24	LICSEL1	OUT	Head R analogue switch data signal
25	GND	-	GND
26	GND	-	GND
27	H0_CLK	OUT	Head R data clock signal
28	GND	-	GND
29	H0-LT	OUT	Head R data latch signal
30	HEAD_3V	OUT	Power supply (+3V)
31	HEAD_3V	OUT	Power supply (+3V)
32	GND	-	GND
33	H0-C-DATA-5-EV	OUT	Even head R data signal 5(C)
34	GND	-	GND
35	H0-B-HE-3	OUT	Head R heat enable signal 8(E)
36	GND	-	GND
37	H0-C-DATA-4-EV	OUT	Even head R data signal 4(C)
38	GND	-	GND
39	H0-B-DATA-3-EV	OUT	Even head R data signal 3(B)
40	GND	-	GND
41	H0-B-DATA-2-EV	OUT	Even head R data signal 2(B)
42	GND	-	GND
43	H0-A-DATA-1-EV	OUT	Even head R data signal 1(A)
44	GND	-	GND
45	H0-A-HE-1	OUT	Head R heat enable signal 8(E)
46	GND	-	GND
47	H0-A-DATA-0-EV	OUT	Even head R data signal 0(A)
48	GND	-	GND
49	H0-A-HE-0_B	OUT	Head R heat enable signal 8(E)
50	GND	-	GND

T-6-64

J3701 (Connect to Carriage PCB J22)			
Pin Number	Signal name	IN/OUT	Function
1	H1-D-DATA-7-OD	OUT	Odd head L data signal 7(D)
2	GND	-	GND
3	H1-E-HE-8	OUT	Head L heat enable signal 8(E)
4	GND	-	GND

J3701 (Connect to Carriage PCB J22)			
Pin Number	Signal name	IN/OUT	Function
5	H1-E-DATA-8-OD	OUT	Odd head L data signal 8(E)
6	GND	-	GND
7	H1-F-DATA-10-OD	OUT	Odd head L data signal 10(F)
8	GND	-	GND
9	H1-E-DATA-9-OD	OUT	Odd head L data signal 9(E)
10	GND	-	GND
11	H1-F-HE-10	OUT	Head L heat enable signal10(F)
12	GND	-	GND
13	H1-F-DATA-11-OD	OUT	Odd head L data signal 11(F)
14	GND	-	GND
15	H1-F-HE-11	OUT	Head L heat enable signal11(F)
16	GND	-	GND
17	H1-F-DATA-11-EV	OUT	Even head L data signal11(F)
18	GND	-	GND
19	H1-F-DATA-10-EV	OUT	Even head L data signal10(F)
20	GND	-	GND
21	H1-E-HE-9	OUT	Head L heat enable signal9(E)
22	GND	-	GND
23	H1-E-DATA-9-EV	OUT	Even head L data signal9(E)
24	H1-DLD LICC2	OUT	Head L analogue switch latch signal
25	H1-DATA LICC2	OUT	Head L analogue switch data signal
26	H1-DASLK LICC2	OUT	Head L analogue switch clock signal
27	GND	-	GND
28	H1-DSOUT2	IN	Head L temperature output 2
29	H1-DSOUT1	IN	Head L temperature output 1
30	GND	-	GND
31	PWLED4_ON	OUT	Multi sensor LED 4 drive signal
32	PWLED3_ON	OUT	Multi sensor LED 3 drive signal
33	PWLED2_ON	OUT	Multi sensor LED 2 drive signal
34	PWLED1_ON	OUT	Multi sensor LED 1 drive signal
35	GND	-	GND
36	MLT_SNS_1IN	IN	Multi sensor signal 1
37	MLT_SNS_2IN	IN	Multi sensor signal 2
38	GND	-	GND
39	H1-B-DATA-2-OD	OUT	Odd head L data signal 2(B)
40	GND	-	GND
41	H1-B-DATA-3-OD	OUT	Odd head L data signal 3(B)
42	GND	-	GND
43	H1-C-HE-4	OUT	Head L heat enable signal8(E)
44	GND	-	GND
45	H1-C-DATA-4-OD	OUT	Odd head L data signal 4(C)
46	SNS_5V	OUT	Power supply (+5V)
47	ENCODER_B	IN	Carriage encoder output signalB
48	SNS_5V	OUT	Power supply (+5V)
49	ENCODER_A	IN	Carriage encoder output signalA
50	GND	-	GND

T-6-65

J3801 (Connect to Carriage PCB J23)			
Pin Number	Signal name	IN/OUT	Function
1	H1-E-DATA-8-EV	OUT	Even head L data signal 8(E)
2	GND	-	GND
3	H1-D-HE-7	OUT	Head L heat enable signal 7(D)
4	GND	-	GND
5	IO-ASIC_SDA	IN/OUT	Head ROM control signal (data)
6	GND	-	GND
7	H1-D-DATA-7-EV	OUT	Even head L data signal 7(D)
8	GND	-	GND
9	H1-D-DATA-6-EV	OUT	Even head L data signal 6(D)
10	GND	-	GND

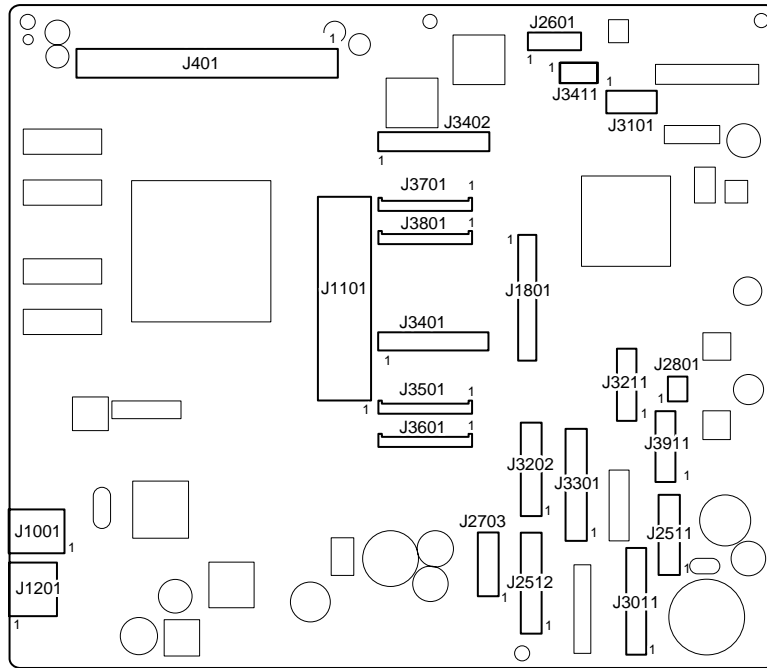
J3801 (Connect to Carriage PCB J23)			
Pin Number	Signal name	IN/OUT	Function
11	H1-D-DATA-6-OD	OUT	Odd head L data signal6(D)
12	GND	-	GND
13	IO-ASIC_SCL	IN/OUT	Head ROM control signal (clock)
14	GND	-	GND
15	H1-D-HE-6	OUT	Head L heat enable signal 6(D)
16	GND	-	GND
17	H1-C-HE-5	OUT	Head L heat enable signal 5(C)
18	GND	-	GND
19	H1-C-DATA-5-OD	OUT	Odd head L data signal5(C)
20	GND	-	GND
21	H1_CLK	OUT	Head L clock signal
22	GND	-	GND
23	HEAD_3V	OUT	Power supply (+3V)
24	GND	-	GND
25	H1_LT	OUT	Head L latch signal
26	H-DASH_LICC2_B	OUT	Analogue switch/AD trigger
27	H1-C-DATA-5-EV	OUT	Even head L data signal 5(C)
28	GND	-	GND
29	H1-B-HE-3	OUT	Head L heat enable signal 3(B)
30	GND	-	GND
31	H1-C-DATA-4-EV	OUT	Even head L data signal 4(C)
32	GND	-	GND
33	H1-B-DATA-3-EV	OUT	Even head L data signal 3(B)
34	GND	-	GND
35	H1-B-DATA-2-EV	OUT	Even head L data signal 2(B)
36	GND	-	GND
37	H1-A-DATA-1-EV	OUT	Even head L data signal 1(A)
38	GND	-	GND
39	H1-A-HE-1	OUT	Head L heat enable signal 1(A)
40	GND	-	GND
41	H1-A-DATA-0-EV	OUT	Even head L data signal 0(A)
42	GND	-	GND
43	H1-A-HE-0	OUT	Head L heat enable signal 0(A)
44	GND	-	GND
45	H1-A-DATA-0-OD	OUT	Odd head L data signal0(A)
46	GND	-	GND
47	H1-A-DATA-1-OD	OUT	Odd head L data signal1(A)
48	GND	-	GND
49	H1-B-HE-2	OUT	Head L heat enable signal 2(B)
50	GND	-	GND

T-6-66

J3911 (Top cover sensor, Ink tank cover switch, Cutter HP sensor)			
Pin Number	Signal name	IN/OUT	Function
1	TANK_COVER_SW	IN	Ink tank cover switch output signal
2	GND	-	GND
3	SNS_3V_1	OUT	Power supply (+3.3V)
4	GND	-	GND
5	TOP_COVER_SNS	IN	Top cover sensor output signal
6	SNS_3V_1	OUT	Power supply (+3.3V)
7	GND	-	GND
8	CUTTER_L_SNS	IN	Cutter HP sensor signal

6.2.4 Main controller PCB

iPF6300 / iPF6350



F-6-4
T-6-67

J1001 (USB)			
Pin Number	Signal name	IN/OUT	Function
1	VBUS	IN	USB VBUS (+5V)
2	D-	IN/OUT	USB data (-)
3	D+	IN/OUT	USB data (+)
4	GND	-	USB GND
5	GND	-	GND (Connector shell)
6	GND	-	GND (Connector shell)

T-6-68

J1101 (Connect to HDD expansion PCB)			
Pin Number	Signal name	IN/OUT	Function
1	GND	-	GND
2	GND	-	GND
3	GND	-	GND
4	+3.3V	OUT	Power supply (+3.3V)
5	+3.3V	OUT	Power supply (+3.3V)
6	+3.3V	OUT	Power supply (+3.3V)
7	+3.3V	OUT	Power supply (+3.3V)
8	+3.3V	OUT	Power supply (+3.3V)
9	+3.3V	OUT	Power supply (+3.3V)
10	N.C.	-	N.C.
11	GND	-	GND
12	PME#	IN	Power management enable signal
13	INTA#	IN	Interrupt signal
14	GND	-	GND
15	RST#	OUT	PCI reset signal
16	CLK	OUT	PCI clock signal
17	GNT#	OUT	Grant signal
18	GND	-	GND
19	REQ#	IN	Request signal
20	AD31	IN/OUT	Address and data signal 31
21	AD30	IN/OUT	Address and data signal 30
22	AD29	IN/OUT	Address and data signal 29

J1101 (Connect to HDD expansion PCB)			
Pin Number	Signal name	IN/OUT	Function
23	AD28	IN/OUT	Address and data signal 28
24	GND	-	GND
25	AD27	IN/OUT	Address and data signal 27
26	AD26	IN/OUT	Address and data signal 26
27	AD25	IN/OUT	Address and data signal 25
28	AD24	IN/OUT	Address and data signal 24
29	CBE3#	IN/OUT	Bus command and byte enable signal 3
30	IDSEL	OUT	Initialization device select signal
31	GND	-	GND
32	GND	-	GND
33	AD23	IN/OUT	Address and data signal 23
34	AD22	IN/OUT	Address and data signal 22
35	AD21	IN/OUT	Address and data signal 21
36	AD20	IN/OUT	Address and data signal 20
37	GND	-	GND
38	AD19	IN/OUT	Address and data signal 19
39	AD18	IN/OUT	Address and data signal 18
40	AD17	IN/OUT	Address and data signal 17
41	AD16	IN/OUT	Address and data signal 16
42	CBE2#	OUT	Bus command and byte enable signal 2
43	GND	-	GND
44	FRAME#	IN/OUT	Cycle frame signal
45	IRDY#	IN/OUT	Initiator redy signal
46	TRDY#	IN/OUT	Target redy signal
47	DEVSEL#	IN/OUT	Device select signal
48	GND	-	GND
49	STOP#	IN/OUT	Stop signal
50	LOCK#	IN/OUT	Lock signal
51	PERR#	IN/OUT	Parity error signal
52	SERR#	IN/OUT	System error signal
53	PAR	IN/OUT	Parity signal
54	CBE1#	IN/OUT	Bus command and byte enable signal 1
55	GND	-	GND
56	GND	-	GND
57	AD15	IN/OUT	Address and data signal 15
58	AD14	IN/OUT	Address and data signal 14
59	AD13	IN/OUT	Address and data signal 13
60	AD12	IN/OUT	Address and data signal 12
61	GND	-	GND
62	AD11	IN/OUT	Address and data signal 11
63	AD10	IN/OUT	Address and data signal 10
64	AD9	IN/OUT	Address and data signal 09
65	AD8	IN/OUT	Address and data signal 08
66	CBE0#	IN/OUT	Bus command and byte enable signal 0
67	GND	-	GND
68	AD7	IN/OUT	Address and data signal 07
69	AD6	IN/OUT	Address and data signal 06
70	AD5	IN/OUT	Address and data signal 05
71	AD4	IN/OUT	Address and data signal 04
72	GND	-	GND
73	AD3	IN/OUT	Address and data signal 03
74	AD2	IN/OUT	Address and data signal 02
75	AD1	IN/OUT	Address and data signal 01
76	AD0	IN/OUT	Address and data signal 00
77	GND	-	GND
78	HDD_LED	OUT	HDD LED signal
79	+5V	OUT	Power supply (+5V)
80	+5V	OUT	Power supply (+5V)
81	+5V	OUT	Power supply (+5V)

J1101 (Connect to HDD expansion PCB)			
Pin Number	Signal name	IN/OUT	Function
82	+3.3V	OUT	Power supply (+3.3V)
83	+3.3V	OUT	Power supply (+3.3V)
84	+3.3V	OUT	Power supply (+3.3V)
85	GND	-	GND
86	GND	-	GND
87	GND	-	GND
88	GND	-	GND

T-6-69

J1201 (Network)			
Pin Number	Signal name	IN/OUT	Function
1	TX+	OUT	Ethernet data TX line (+)
2	TX-	OUT	Ethernet data TX line (-)
3	RX+	IN	Ethernet data RX line (+)
4	-	-	Not used
5	-	-	Not used
6	RX-	IN	Ethernet data RX line (-)
7	-	-	Not used
8	-	-	Not used
9	GREEN_LED_C	OUT	Link LED (green:100Mb/s) cathode terminal
10	GREEN_LED_A	OUT	Link LED (green:100Mb/s) anode terminal
11	YELLOW_LED_C	OUT	Link LED (yellow:10Mb/s) cathode terminal
12	YELLOW_LED_A	OUT	Link LED (yellow:10Mb/s) anode terminal

T-6-70

J1801 (Connect to Power supply)			
Pin Number	Signal name	IN/OUT	Function
1	HD_VHFBH	OUT	VH feedback voltage +
2	HD_VHFBSG	OUT	VH feedback voltage -
3	VH	IN	Power supply (+24V)
4	VH_GND	-	GND
5	VH	IN	Power supply (+24V)
6	VH_GND	-	GND
7	VM	IN	Power supply (+32V)
8	VM_GND	-	GND
9	VM	IN	Power supply (+32V)
10	VM_GND	-	GND
11	VH_ENB	OUT	VH power supply ON/OFF signal
12	PW_CONT	OUT	Normal/power saving switch signal

T-6-71

J2511 (Spur motor, Spur cam sensor, Mist fan, Cutter motor, Cutter right detection sensor)			
Pin Number	Signal name	IN/OUT	Function
1	SNS_3V_1	OUT	Power supply (+3.3V)
2	GND	-	GND
3	CUTTER_R_SNS_R	IN	Cutter right detection sensor signal
4	CUTTER_OUTA	OUT	Cutter motor driver signal A
5	CUTTER_OUTB	OUT	Cutter motor driver signal B
6	SNS_3V_1	OUT	Power supply (+3.3V)
7	GND	-	GND
8	HAKUSHA_CAM_SNS_R	IN	Spur cam sensor output signal
9	HAKUSHA_MOTOR_AM	OUT	Spur motor drive signal AM
10	HAKUSHA_MOTOR_AP	OUT	Spur motor drive signal AP
11	FAN_VM	OUT	Power supply (+26V)
12	MIST_FAN_LOCK	IN	Mist fan lock signal
13	MIST_FAN_PWM	OUT	Mist fan duty control signal
14	GND	-	GND

T-6-72

J2512 (Suction fan, Maintenance cartridge relay PCB, Paper detection sensor, Lift cam sensor)			
Pin Number	Signal name	IN/OUT	Function
1	FAN_VM	OUT	Power supply (+26V)
2	PLATEN_FAN_LOCK	IN	Suction fan lock signal
3	PLATEN_FAN_SPEED	OUT	Suction fan duty control signal
4	GND	-	GND
5	MENT_SDA	IN/OUT	Maintenance cartridge rom control signal (data)
6	MENT_SCL	IN/OUT	Maintenance cartridge rom control signal (clock)
7	GND	-	GND
8	MENT_3V	OUT	Power supply (+3.3V)
9	-	-	
10	SNS_3V	OUT	Power supply (+3.3V)
11	GND	-	GND
12	PE_SNS	IN	Paper detection sensor output signal
13	SNS_3V	OUT	Power supply (+3.3V)
14	GND	-	GND
15	LIFT_CAM_SNS	IN	Lift cam sensor output signal

T-6-73

J2601 (Connect to Operation panel)			
Pin Number	Signal name	IN/OUT	Function
1	POWER_ON	IN	Power switch signal
2	PM_START	OUT	Power supply (+5V)
3	BUZZER	OUT	Buzzer control signal
4	PDODATA	OUT	Panel IC control signal
5	+3.3V	OUT	Power supply (+3.3V)
6	PDI_DATA	IN	Panel IC data signal
7	GND	-	GND
8	/PANEL RESET	OUT	Panel IC reset signal
9	GND	-	GND
10	PDOPCLK	OUT	Panel IC clock signal
11	SNS_5V	OUT	Power supply (+5V)
12	/PDOC_S_L	OUT	Panel IC chip select signal

T-6-74

J2703 (Auto feed roll unit)			
Pin Number	Signal name	IN/OUT	Function
1	OPT_5V	OUT	Power supply (+5V)
2	GND	-	GND
3	ROLL_CAM_SNS	IN	Roll cam sensor signal
4	ROLL_PAPER_SNS	IN	Roll media sensor signal
5	ROLL_UNIT	IN	Roll unit detection signal
6	VM	OUT	Power supply (+26V)
7	VM	OUT	Power supply (+26V)
8	/ROLL_SLEEP	OUT	Roll motor driver sleep signal
9	ROLL_STB	OUT	Roll motor driver strobe signal
10	ROLL_DAT	OUT	Roll motor driver data signal
11	ROLL_CLK	OUT	Roll motor driver clock signal
12	GND	-	GND
13	GND	-	GND

T-6-75

J2801 (Feed motor)			
Pin Number	Signal name	IN/OUT	Function
1	LF_OUTB	OUT	Feed motor drive signal B
2	LF_OUTA	OUT	Feed motor drive signal A

T-6-76

J3011 (Purge motor, Pump encoder sensor, Pump cam sensor, Lift motor, Head management sensor)			
Pin Number	Signal name	IN/OUT	Function
1	LIFTOUTCOM	OUT	Lift motor power supply
2	LIFT_OUTAP	OUT	Lift motor drive signal AP
3	LIFT_OUTAM	OUT	Lift motor drive signal AM
4	LIFT_OUTBP	OUT	Lift motor drive signal BP
5	LIFT_OUTBM	OUT	Lift motor drive signal BM
6	GND	-	GND
7	FUTO_CLMP	OUT	Head management sensor unit clamp signal
8	FUTO_XLEDON	OUT	Head management sensor unit LED ON/OFF signal
9	SNS_5V		Power supply (+5V)
10	FUTO_XCMP0	IN	Head management sensor unit light shading detection signal
11	PUMP_OUTB	OUT	Purge motor drive signal B
12	PUMP_OUTA	OUT	Purge motor drive signal A
13	GND	-	GND
14	PUMP_ENCA	IN	Pump encoder sensor output signal A
15	SNS_5V		Power supply (+5V)
16	PUMP_ENCB	IN	Pump encoder sensor output signal B
17	PUMP_CAM_3V	OUT	Power supply (+3.3V)
18	GND	-	GND
19	PUMP_CAM_SNS	IN	Pump cam sensor output signal

T-6-77

J3101 (Carriage motor)			
Pin Number	Signal name	IN/OUT	Function
1	CR_HWP	IN	Carriage motor hole device W-phase + signal
2	CR_HWM	IN	Carriage motor hole device W-phase - signal
3	CR_W	OUT	Carriage motor W-phase drive signal
4	CR_HVM	IN	Carriage motor hole device V-phase - signal
5	CR_U	OUT	Carriage motor U-phase drive signal
6	GND	-	GND
7	CR_V	OUT	Carriage motor V-phase drive signal
8	SNS_5V		Power supply (+5V)
9	N.C.	-	N.C.
10	CR_HVP	IN	Carriage motor hole device V-phase + signal
11	CR_HUM	IN	Carriage motor hole device U-phase - signal
12	CR_HUP	IN	Carriage motor hole device U-phase + signal

T-6-78

J3202 (Ink tank ROM PCB, Ink detection sensor)			
Pin Number	Signal name	IN/OUT	Function
1	TANK_DAT0	IN/OUT	Ink tank data signal 0
2	TANK_DAT1	IN/OUT	Ink tank data signal 1
3	TANK_3V	OUT	Power supply (+3.3V)
4	TANK_DAT2	IN/OUT	Ink tank data signal 2
5	GND	-	GND
6	TANK_CLK	OUT	Ink tank clock signal
7	TANK_DAT3	IN/OUT	Ink tank data signal 3
8	TANK_DAT4	IN/OUT	Ink tank data signal 4
9	TANK_3V	OUT	Power supply (+3.3V)
10	TANK_DAT5	IN/OUT	Ink tank data signal 5
11	GND	-	GND
12	TANK_CLK	OUT	Ink tank clock signal
13	GND	-	GND
14	INK_SNS0	IN	Ink detection sensor output signal 0
15	INK_SNS1	IN	Ink detection sensor output signal 1
16	INK_SNS2	IN	Ink detection sensor output signal 2
17	GND	-	GND
18	INK_SNS3	IN	Ink detection sensor output signal 3

J3202 (Ink tank ROM PCB, Ink detection sensor)			
Pin Number	Signal name	IN/OUT	Function
19	INK_SNS4	IN	Ink detection sensor output signal 4
20	INK_SNS5	IN	Ink detection sensor output signal 5

T-6-79

J3211 (Valve motor, Valve open/closed detection sensor, Feed roller HP sensor, Feed roller encoder sensor)			
Pin Number	Signal name	IN/OUT	Function
1	SNS_3V	OUT	Power supply (+3.3V)
2	GND	-	GND
3	VALVE_DETECT_SENSOR	IN	Valve open/closed detection sensor output signal
4	VALVE_MOTOR_AM	OUT	Valve motor drive signal AM
5	VALVE_MOTOR_AP	OUT	Valve motor drive signal AP
6	SNS_3V	OUT	Power supply (+3.3V)
7	GND	-	GND
8	LF_HP_SNS	IN	Feed roller HP sensor output signal
9	GND	-	GND
10	LF_ENCA	IN	Feed roller encoder sensor output signal A
11	RGV5	OUT	Power supply (+5V)
12	LF_ENCB	IN	Feed roller encoder sensor output signal B

T-6-80

J3301 (Ink tank ROM PCB, Ink detection sensor)			
Pin Number	Signal name	IN/OUT	Function
1	TANK_DAT6_L	IN/OUT	Ink tank data signal 6
2	TANK_DAT7_L	IN/OUT	Ink tank data signal 7
3	TANK_3V	OUT	Power supply (+3.3V)
4	TANK_DAT8	IN/OUT	Ink tank data signal 8
5	GND	-	GND
6	TANK_CLK	OUT	Ink tank clock signal
7	TANK_DAT9	IN/OUT	Ink tank data signal 9
8	TANK_DAT10	IN/OUT	Ink tank data signal 10
9	TANK_3V	OUT	Power supply (+3.3V)
10	TANK_DAT11	IN/OUT	Ink tank data signal 11
11	GND	-	GND
12	TANK_CLK	OUT	Ink tank clock signal
13	GND	-	GND
14	INK_SNS6_L	IN	Ink detection sensor output signal 6
15	INK_SNS7_L	IN	Ink detection sensor output signal 7
16	INK_SNS8	IN	Ink detection sensor output signal 8
17	GND	-	GND
18	INK_SNS9	IN	Ink detection sensor output signal 9
19	INK_SNS10	IN	Ink detection sensor output signal 10
20	INK_SNS11	IN	Ink detection sensor output signal 11

T-6-81

J3401 (Connect to Carriage PCB J11)			
Pin Number	Signal name	IN/OUT	Function
1	GND	-	GND
2	GND	-	GND
3	GND	-	GND
4	GND	-	GND
5	GND	-	GND
6	GND	-	GND
7	GND	-	GND
8	VH	OUT	Power supply (+21.5V)
9	VH	OUT	Power supply (+21.5V)
10	VH	OUT	Power supply (+21.5V)
11	VH	OUT	Power supply (+21.5V)
12	VH	OUT	Power supply (+21.5V)
13	VH	OUT	Power supply (+21.5V)

J3401 (Connect to Carriage PCB J11)			
Pin Number	Signal name	IN/OUT	Function
14	VH	OUT	Power supply (+21.5V)
15	VH	OUT	Power supply (+21.5V)
16	VH	OUT	Power supply (+21.5V)
17	VH	OUT	Power supply (+21.5V)
18	VH	OUT	Power supply (+21.5V)
19	VH	OUT	Power supply (+21.5V)
20	VH	OUT	Power supply (+21.5V)
21	VH	OUT	Power supply (+21.5V)
22	VH	OUT	Power supply (+21.5V)
23	VH	OUT	Power supply (+21.5V)
24	GND	-	GND
25	GND	-	GND
26	GND	-	GND
27	GND	-	GND
28	GND	-	GND
29	GND	-	GND
30	GND	-	GND

T-6-82

J3402 (Connect to Carriage PCB J21)			
Pin Number	Signal name	IN/OUT	Function
1	GND	-	GND
2	GND	-	GND
3	GND	-	GND
4	GND	-	GND
5	GND	-	GND
6	GND	-	GND
7	VH	OUT	Power supply (+21.5V)
8	VH	OUT	Power supply (+21.5V)
9	VH	OUT	Power supply (+21.5V)
10	VH	OUT	Power supply (+21.5V)
11	VH	OUT	Power supply (+21.5V)
12	VH	OUT	Power supply (+21.5V)
13	VH	OUT	Power supply (+21.5V)
14	VH	OUT	Power supply (+21.5V)
15	VH	OUT	Power supply (+21.5V)
16	VH	OUT	Power supply (+21.5V)
17	VH	OUT	Power supply (+21.5V)
18	VH	OUT	Power supply (+21.5V)
19	VH	OUT	Power supply (+21.5V)
20	VH	OUT	Power supply (+21.5V)
21	VH	OUT	Power supply (+21.5V)
22	HD1_VHFBH	IN	VH feed back voltage +
23	HD1_VHFBG	IN	VH feed back voltage -
24	GND	-	GND
25	GND	-	GND
26	GND	-	GND
27	GND	-	GND
28	GND	-	GND
29	GND	-	GND
30	GND	-	GND

T-6-83

J3411 (Temperature/humidity detection sensor)			
Pin Number	Signal name	IN/OUT	Function
1	TH2_OUT	IN	Thermistor output signal
2	GND	-	GND
3	RHV_OUT	IN	Temperature/humidity detection sensor output signal
4	SNS_5V		Power supply (+5V)

T-6-84

J3501 (Connect to Carriage PCB J12)			
Pin Number	Signal name	IN/OUT	Function
1	GND	-	GND
2	GND	-	GND
3	H-DASH LICC2 B	OUT	Analogue switch A/D trigger signal
4	GND	-	GND
5	H0-D-DATA-7-OD	OUT	Odd head R data signal 7(D)
6	GND	-	GND
7	H0-E-HE-8	OUT	Head R heat enable signal 8(E)
8	GND	-	GND
9	H0-E-DATA-8-OD	OUT	Odd head R data signal 8(E)
10	GND	-	GND
11	H0-F-DATA-10-OD	OUT	Odd head R data signal 10(F)
12	GND	-	GND
13	H0-E-DATA-9-OD	OUT	Odd head R data signal 9(E)
14	GND	-	GND
15	H0-F-HE-10	OUT	Head R heat enable signal 10(F)
16	GND	-	GND
17	H0-F-DATA-11-OD	OUT	Odd head R data signal 11(F)
18	GND	-	GND
19	H0-F-HE-11	OUT	Head R heat enable signal 11(F)
20	GND	-	GND
21	H0-F-DATA-11-EV	OUT	Even head R data signal 11(F)
22	GND	-	GND
23	H0-F-DATA-10-EV	OUT	Even head R data signal 10(F)
24	GND	-	GND
25	H0-E-HE-9	OUT	Head R heat enable signal 9(E)
26	GND	-	GND
27	H0-E-DATA-9-EV	OUT	Even head R data signal 9(E)
28	GND	-	GND
29	GND	-	GND
30	GND	-	GND
31	GND	-	GND
32	GND	-	GND
33	GND	-	GND
34	GND	-	GND
35	H0-A-DATA-0-OD	OUT	Odd head R data signal 0(A)
36	GND	-	GND
37	H0-A-DATA-1-OD	OUT	Odd head R data signal 1(A)
38	GND	-	GND
39	H0-B-HE-2	OUT	Head R heat enable signal 2(B)
40	GND	-	GND
41	H0-B-DATA-2-OD	OUT	Odd head R data signal 2(B)
42	GND	-	GND
43	H0-B-DATA-3-OD	OUT	Odd head R data signal 3(B)
44	GND	-	GND
45	H0-C-HE-4	OUT	Head R heat enable signal 4(C)
46	GND	-	GND
47	H0-C-DATA-4-OD	OUT	Odd head R data signal 4(C)
48	SNS_5V	OUT	Power supply (+5V)
49	GND	-	GND
50	GND	-	GND

T-6-85

J3601 (Connect to Carriage PCB J13)			
Pin Number	Signal name	IN/OUT	Function
1	H0-E-DATA-8	OUT	Even head R data signal 8(E)
2	GND	-	GND
3	H0-D-HE-7	OUT	Head R heat enable signal 7(D)
4	GND	-	GND

J3601 (Connect to Carriage PCB J13)			
Pin Number	Signal name	IN/OUT	Function
5	H0-D-DATA-7-EV	OUT	Even head R data signal 7(D)
6	GND	-	GND
7	H0-D-DATA-6-EB	OUT	Even head R data signal 6(D)
8	GND	-	GND
9	H0-D-DATA-6-OD	OUT	Odd head R data signal 6(D)
10	GND	-	GND
11	H0-D-HE-6	OUT	Head R heat enable signal 6(D)
12	GND	-	GND
13	H0-C-HE-5	OUT	Head R heat enable signal 5(C)
14	GND	-	GND
15	H0-C-DATA-5-OD	OUT	Odd head R data signal 5(C)
16	GND	-	GND
17	H0-DSOUT2	IN	Head R temperature output 2
18	GND	-	GND
19	H0-DSOUT1	IN	Head R temperature output 1
20	GND	-	GND
21	GND	-	GND
22	LICSEL0	OUT	Head R analogue switch clock signal
23	LICSEL2	OUT	Head R analogue switch latch signal
24	LICSEL1	OUT	Head R analogue switch data signal
25	GND	-	GND
26	GND	-	GND
27	H0_CLK	OUT	Head R data clock signal
28	GND	-	GND
29	H0-LT	OUT	Head R data latch signal
30	HEAD_3V	OUT	Power supply (+3V)
31	HEAD_3V	OUT	Power supply (+3V)
32	GND	-	GND
33	H0-C-DATA-5-EV	OUT	Even head R data signal 5(C)
34	GND	-	GND
35	H0-B-HE-3	OUT	Head R heat enable signal 3(B)
36	GND	-	GND
37	H0-C-DATA-4-EV	OUT	Even head R data signal 4(C)
38	GND	-	GND
39	H0-B-DATA-3-EV	OUT	Even head R data signal 3(B)
40	GND	-	GND
41	H0-B-DATA-2-EV	OUT	Even head R data signal 2(B)
42	GND	-	GND
43	H0-A-DATA-1-EV	OUT	Even head R data signal 1(A)
44	GND	-	GND
45	H0-A-HE-1	OUT	Head R heat enable signal 1(A)
46	GND	-	GND
47	H0-A-DATA-0-EV	OUT	Even head R data signal 0(A)
48	GND	-	GND
49	H0-A-HE-0_B	OUT	Head R heat enable signal 0(A)
50	GND	-	GND

T-6-86

J3701 (Connect to Carriage PCB J22)			
Pin Number	Signal name	IN/OUT	Function
1	H1-D-DATA-7-OD	OUT	Odd head L data signal 7(D)
2	GND	-	GND
3	H1-E-HE-8	OUT	Head L heat enable signal 8(E)
4	GND	-	GND
5	H1-E-DATA-8-OD	OUT	Odd head L data signal 8(E)
6	GND	-	GND
7	H1-F-DATA-10-OD	OUT	Odd head L data signal 10(F)
8	GND	-	GND
9	H1-E-DATA-9-OD	OUT	Odd head L data signal 9(E)
10	GND	-	GND

J3701 (Connect to Carriage PCB J22)			
Pin Number	Signal name	IN/OUT	Function
11	H1-F-HE-10	OUT	Head L heat enable signal 10(F)
12	GND	-	GND
13	H1-F-DATA-11-OD	OUT	Odd head L data signal 11(F)
14	GND	-	GND
15	H1-F-HE-11	OUT	Head L heat enable signal 11(F)
16	GND	-	GND
17	H1-F-DATA-11-EV	OUT	Even head L data signal 11(F)
18	GND	-	GND
19	H1-F-DATA-10-EV	OUT	Even head L data signal 10(F)
20	GND	-	GND
21	H1-E-HE-9	OUT	Head L heat enable signal 9(E)
22	GND	-	GND
23	H1-E-DATA-9-EV	OUT	Even head L data signal 9(E)
24	H1-DLD LICC2	OUT	Head L analogue switch latch signal
25	H1-DATA LICC2	OUT	Head L analogue switch data signal
26	H1-DASLK LICC2	OUT	Head L analogue switch clock signal
27	GND	-	GND
28	H1-DSOUT2	IN	Head L temperature output 2
29	H1-DSOUT1	IN	Head L temperature output 1
30	GND	-	GND
31	PWLED4_ON	OUT	Multi sensor LED 4 drive signal
32	PWLED3_ON	OUT	Multi sensor LED 3 drive signal
33	PWLED2_ON	OUT	Multi sensor LED 2 drive signal
34	PWLED1_ON	OUT	Multi sensor LED 1 drive signal
35	GND	-	GND
36	MLT_SNS_1IN	IN	Multi sensor signal 1
37	MLT_SNS_2IN	IN	Multi sensor signal 2
38	GND	-	GND
39	H1-B-DATA-2-OD	OUT	Odd head L data signal 2(B)
40	GND	-	GND
41	H1-B-DATA-3-OD	OUT	Odd head L data signal 3(B)
42	GND	-	GND
43	H1-C-HE-4	OUT	Head L heat enable signal 4(C)
44	GND	-	GND
45	H1-C-DATA-4-OD	OUT	Odd head L data signal 4(C)
46	SNS_5V	OUT	Power supply (+5V)
47	ENCODER_B	IN	Carriage encoder output signalB
48	SNS_5V	OUT	Power supply (+5V)
49	ENCODER_A	IN	Carriage encoder output signalA
50	GND	-	GND

T-6-87

J3801 (Connect to Carriage PCB J23)			
Pin Number	Signal name	IN/OUT	Function
1	H1-E-DATA-8-EV	OUT	Even head L data signal 8(E)
2	GND	-	GND
3	H1-D-HE-7	OUT	Head L heat enable signal 7(D)
4	GND	-	GND
5	IO-ASIC_SDA	IN/OUT	Head ROM control signal (data)
6	GND	-	GND
7	H1-D-DATA-7-EV	OUT	Even head L data signal 7(D)
8	GND	-	GND
9	H1-D-DATA-6-EV	OUT	Even head L data signal 6(D)
10	GND	-	GND
11	H1-D-DATA-6-OD	OUT	Odd head L data signal 6(D)
12	GND	-	GND
13	IO-ASIC_SCL	IN/OUT	Head ROM control signal (clock)
14	GND	-	GND
15	H1-D-HE-6	OUT	Head L heat enable signal 6(D)
16	GND	-	GND

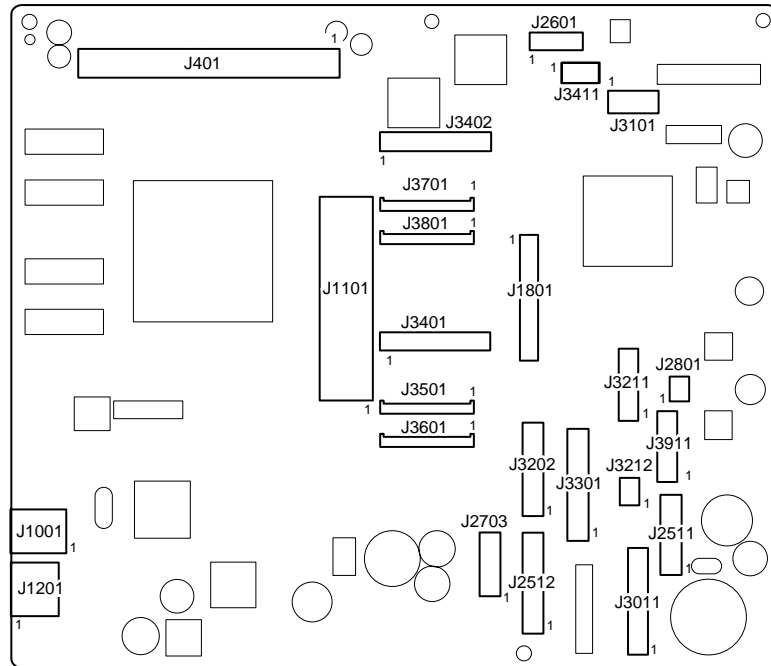
J3801 (Connect to Carriage PCB J23)			
Pin Number	Signal name	IN/OUT	Function
17	H1-C-HE-5	OUT	Head L heat enable signal 5(C)
18	GND	-	GND
19	H1-C-DATA-5-OD	OUT	Odd head L data signal 5(C)
20	GND	-	GND
21	H1_CLK	OUT	Head L clock signal
22	GND	-	GND
23	HEAD_3V	OUT	Power supply (+3V)
24	GND	-	GND
25	H1_LT	OUT	Head L latch signal
26	H-DASH_LICC2_B	OUT	Analogue switch A/D trigger signal
27	H1-C-DATA-5-EV	OUT	Even head L data signal 5(C)
28	GND	-	GND
29	H1-B-HE-3	OUT	Head L heat enable signal 3(B)
30	GND	-	GND
31	H1-C-DATA-4-EV	OUT	Even head L data signal 4(C)
32	GND	-	GND
33	H1-B-DATA-3-EV	OUT	Even head L data signal 3(B)
34	GND	-	GND
35	H1-B-DATA-2-EV	OUT	Even head L data signal 2(B)
36	GND	-	GND
37	H1-A-DATA-1-EV	OUT	Even head L data signal 1(A)
38	GND	-	GND
39	H1-A-HE-1	OUT	Head L heat enable signal 1(A)
40	GND	-	GND
41	H1-A-DATA-0-EV	OUT	Even head L data signal 0(A)
42	GND	-	GND
43	H1-A-HE-0	OUT	Head L heat enable signal 0(A)
44	GND	-	GND
45	H1-A-DATA-0-OD	OUT	Odd head L data signal 0(A)
46	GND	-	GND
47	H1-A-DATA-1-OD	OUT	Odd head L data signal 1(A)
48	GND	-	GND
49	H1-B-HE-2	OUT	Head L heat enable signal 2(B)
50	GND	-	GND

T-6-88

J3911 (Cutter lift motor / Top cover sensor / Ink tank cover switch / Cutter HP sensor / Cutter lift sensor)			
Pin Number	Signal name	IN/OUT	Function
1	TANK_COVER_SW	IN	Ink tank cover switch output signal
2	GND	-	GND
3	SNS_3V	OUT	Power supply (+3.3V)
4	GND	-	GND
5	TOP_COVER_SNS	IN	Top cover sensor output signal
6	SNS_3V	OUT	Power supply (+3.3V)
7	GND	-	GND
8	CUTTER_L_SNS	IN	Cutter HP sensor signal
9	SNS_5V		Power supply (+5V)
10	GND	-	GND
11	CUTTER_POS1_SNS	IN	Cutter lift sensor output signal
12	CUTTER_OUT_SC-	OUT	Cutter lift motor drive signal SC-
13	CUTTER_OUT_SC+	OUT	Cutter lift motor drive signal SC+

6.2.5 Main controller PCB

iPF6300S



F-6-5

T-6-89

J1001 (USB)			
Pin Number	Signal name	IN/OUT	Function
1	VBUS	IN	USB VBUS (+5V)
2	D-	IN/OUT	USB data (-)
3	D+	IN/OUT	USB data (+)
4	GND	-	USB GND
5	GND	-	GND (Connector shell)
6	GND	-	GND (Connector shell)

T-6-90

J1101 (Connect to HDD expansion PCB)			
Pin Number	Signal name	IN/OUT	Function
1	GND	-	GND
2	GND	-	GND
3	GND	-	GND
4	+3.3V	OUT	Power supply (+3.3V)
5	+3.3V	OUT	Power supply (+3.3V)
6	+3.3V	OUT	Power supply (+3.3V)
7	+3.3V	OUT	Power supply (+3.3V)
8	+3.3V	OUT	Power supply (+3.3V)
9	+3.3V	OUT	Power supply (+3.3V)
10	N.C.	-	N.C.
11	GND	-	GND
12	PME#	IN	Power management enable signal
13	INTA#	IN	Interrupt signal
14	GND	-	GND
15	RST#	OUT	PCI reset signal
16	CLK	OUT	PCI clock signal
17	GNT#	OUT	Grant signal
18	GND	-	GND
19	REQ#	IN	Request signal
20	AD31	IN/OUT	Address and data signal 31
21	AD30	IN/OUT	Address and data signal 30
22	AD29	IN/OUT	Address and data signal 29

J1101 (Connect to HDD expansion PCB)			
Pin Number	Signal name	IN/OUT	Function
23	AD28	IN/OUT	Address and data signal 28
24	GND	-	GND
25	AD27	IN/OUT	Address and data signal 27
26	AD26	IN/OUT	Address and data signal 26
27	AD25	IN/OUT	Address and data signal 25
28	AD24	IN/OUT	Address and data signal 24
29	CBE3#	IN/OUT	Bus command and byte enable signal 3
30	IDSEL	OUT	Initialization device select signal
31	GND	-	GND
32	GND	-	GND
33	AD23	IN/OUT	Address and data signal 23
34	AD22	IN/OUT	Address and data signal 22
35	AD21	IN/OUT	Address and data signal 21
36	AD20	IN/OUT	Address and data signal 20
37	GND	-	GND
38	AD19	IN/OUT	Address and data signal 19
39	AD18	IN/OUT	Address and data signal 18
40	AD17	IN/OUT	Address and data signal 17
41	AD16	IN/OUT	Address and data signal 16
42	CBE2#	OUT	Bus command and byte enable signal 2
43	GND	-	GND
44	FRAME#	IN/OUT	Cycle frame signal
45	IRDY#	IN/OUT	Initiator redy signal
46	TRDY#	IN/OUT	Target redy signal
47	DEVSEL#	IN/OUT	Device select signal
48	GND	-	GND
49	STOP#	IN/OUT	Stop signal
50	LOCK#	IN/OUT	Lock signal
51	PERR#	IN/OUT	Parity error signal
52	SERR#	IN/OUT	System error signal
53	PAR	IN/OUT	Parity signal
54	CBE1#	IN/OUT	Bus command and byte enable signal 1
55	GND	-	GND
56	GND	-	GND
57	AD15	IN/OUT	Address and data signal 15
58	AD14	IN/OUT	Address and data signal 14
59	AD13	IN/OUT	Address and data signal 13
60	AD12	IN/OUT	Address and data signal 12
61	GND	-	GND
62	AD11	IN/OUT	Address and data signal 11
63	AD10	IN/OUT	Address and data signal 10
64	AD9	IN/OUT	Address and data signal 09
65	AD8	IN/OUT	Address and data signal 08
66	CBE0#	IN/OUT	Bus command and byte enable signal 0
67	GND	-	GND
68	AD7	IN/OUT	Address and data signal 07
69	AD6	IN/OUT	Address and data signal 06
70	AD5	IN/OUT	Address and data signal 05
71	AD4	IN/OUT	Address and data signal 04
72	GND	-	GND
73	AD3	IN/OUT	Address and data signal 03
74	AD2	IN/OUT	Address and data signal 02
75	AD1	IN/OUT	Address and data signal 01
76	AD0	IN/OUT	Address and data signal 00
77	GND	-	GND
78	HDD_LED	OUT	HDD LED signal
79	+5V	OUT	Power supply (+5V)
80	+5V	OUT	Power supply (+5V)
81	+5V	OUT	Power supply (+5V)

J1101 (Connect to HDD expansion PCB)			
Pin Number	Signal name	IN/OUT	Function
82	+3.3V	OUT	Power supply (+3.3V)
83	+3.3V	OUT	Power supply (+3.3V)
84	+3.3V	OUT	Power supply (+3.3V)
85	GND	-	GND
86	GND	-	GND
87	GND	-	GND
88	GND	-	GND

T-6-91

J1201 (Network)			
Pin Number	Signal name	IN/OUT	Function
1	TX+	OUT	Ethernet data TX line (+)
2	TX-	OUT	Ethernet data TX line (-)
3	RX+	IN	Ethernet data RX line (+)
4	-	-	Not used
5	-	-	Not used
6	RX-	IN	Ethernet data RX line (-)
7	-	-	Not used
8	-	-	Not used
9	GREEN_LED_C	OUT	Link LED (green:100Mb/s) cathode terminal
10	GREEN_LED_A	OUT	Link LED (green:100Mb/s) anode terminal
11	YELLOW_LED_C	OUT	Link LED (yellow:10Mb/s) cathode terminal
12	YELLOW_LED_A	OUT	Link LED (yellow:10Mb/s) anode terminal

T-6-92

J1801 (Connect to Power supply)			
Pin Number	Signal name	IN/OUT	Function
1	HD_VHFBH	OUT	VH feedback voltage +
2	HD_VHFBG	OUT	VH feedback voltage -
3	VH	IN	Power supply (+24V)
4	VH_GND	-	GND
5	VH	IN	Power supply (+24V)
6	VH_GND	-	GND
7	VM	IN	Power supply (+32V)
8	VM_GND	-	GND
9	VM	IN	Power supply (+32V)
10	VM_GND	-	GND
11	VH_ENB	OUT	VH power supply ON/OFF signal
12	PW_CONT	OUT	Normal/power saving switch signal

T-6-93

J2511 (Spur motor, Spur cam sensor, Mist fan, Cutter motor, Cutter right detection sensor)			
Pin Number	Signal name	IN/OUT	Function
1	SNS_3V_1	OUT	Power supply (+3.3V)
2	GND	-	GND
3	CUTTER_R_SNS_R	IN	Cutter right detection sensor signal
4	CUTTER_OUTA	OUT	Cutter motor driver signal A
5	CUTTER_OUTB	OUT	Cutter motor driver signal B
6	SNS_3V_1	OUT	Power supply (+3.3V)
7	GND	-	GND
8	HAKUSHA_CAM_SNS_R	IN	Spur cam sensor output signal
9	HAKUSHA_MOTOR_AM	OUT	Spur motor drive signal AM
10	HAKUSHA_MOTOR_AP	OUT	Spur motor drive signal AP
11	FAN_VM	OUT	Power supply (+26V)
12	MIST_FAN_LOCK	IN	Mist fan lock signal
13	MIST_FAN_PWM	OUT	Mist fan duty control signal
14	GND	-	GND

T-6-94

J2512 (Suction fan, Maintenance cartridge relay PCB, Paper detection sensor, Lift cam sensor)			
Pin Number	Signal name	IN/OUT	Function
1	FAN_VM	OUT	Power supply (+26V)
2	PLATEN_FAN_LOCK	IN	Suction fan lock signal
3	PLATEN_FAN_SPEED	OUT	Suction fan duty control signal
4	GND	-	GND
5	MENT_SDA	IN/OUT	Maintenance cartridge rom control signal (data)
6	MENT_SCL	IN/OUT	Maintenance cartridge rom control signal (clock)
7	GND	-	GND
8	MENT_3V	OUT	Power supply (+3.3V)
9	-	-	
10	SNS_3V	OUT	Power supply (+3.3V)
11	GND	-	GND
12	PE_SNS	IN	Paper detection sensor output signal
13	SNS_3V	OUT	Power supply (+3.3V)
14	GND	-	GND
15	LIFT_CAM_SNS	IN	Lift cam sensor output signal

T-6-95

J2601 (Connect to Operation panel)			
Pin Number	Signal name	IN/OUT	Function
1	POWER_ON	IN	Power switch signal
2	PM_START	OUT	Power supply (+5V)
3	BUZZER	OUT	Buzzer control signal
4	PDODATA	OUT	Panel IC control signal
5	+3.3V	OUT	Power supply (+3.3V)
6	PDI_DATA	IN	Panel IC data signal
7	GND	-	GND
8	/PANEL RESET	OUT	Panel IC reset signal
9	GND	-	GND
10	PDOPCLK	OUT	Panel IC clock signal
11	SNS_5V	OUT	Power supply (+5V)
12	/PDOC_S_L	OUT	Panel IC chip select signal

T-6-96

J2703 (Auto feed roll unit)			
Pin Number	Signal name	IN/OUT	Function
1	OPT_5V	OUT	Power supply (+5V)
2	GND	-	GND
3	ROLL_CAM_SNS	IN	Roll cam sensor signal
4	ROLL_PAPER_SNS	IN	Roll media sensor signal
5	ROLL_UNIT	IN	Roll unit detection signal
6	VM	OUT	Power supply (+26V)
7	VM	OUT	Power supply (+26V)
8	/ROLL_SLEEP	OUT	Roll motor driver sleep signal
9	ROLL_STB	OUT	Roll motor driver strobe signal
10	ROLL_DAT	OUT	Roll motor driver data signal
11	ROLL_CLK	OUT	Roll motor driver clock signal
12	GND	-	GND
13	GND	-	GND

T-6-97

J2801 (Feed motor)			
Pin Number	Signal name	IN/OUT	Function
1	LF_OUTB	OUT	Feed motor drive signal B
2	LF_OUTA	OUT	Feed motor drive signal A

T-6-98

J3011 (Purge motor, Pump encoder sensor, Pump cam sensor, Lift motor, Head management sensor)			
Pin Number	Signal name	IN/OUT	Function
1	LIFTOUTCOM	OUT	Lift motor power supply
2	LIFT_OUTAP	OUT	Lift motor drive signal AP
3	LIFT_OUTAM	OUT	Lift motor drive signal AM
4	LIFT_OUTBP	OUT	Lift motor drive signal BP
5	LIFT_OUTBM	OUT	Lift motor drive signal BM
6	GND	-	GND
7	FUTO_CLMP	OUT	Head management sensor unit clamp signal
8	FUTO_XLEDON	OUT	Head management sensor unit LED ON/OFF signal
9	SNS_5V		Power supply (+5V)
10	FUTO_XCMP0	IN	Head management sensor unit light shading detection signal
11	PUMP_OUTB	OUT	Purge motor drive signal B
12	PUMP_OUTA	OUT	Purge motor drive signal A
13	GND	-	GND
14	PUMP_ENCA	IN	Pump encoder sensor output signal A
15	SNS_5V		Power supply (+5V)
16	PUMP_ENCB	IN	Pump encoder sensor output signal B
17	PUMP_CAM_3V	OUT	Power supply (+3.3V)
18	GND	-	GND
19	PUMP_CAM_SNS	IN	Pump cam sensor output signal

T-6-99

J3101 (Carriage motor)			
Pin Number	Signal name	IN/OUT	Function
1	CR_HWP	IN	Carriage motor hole device W-phase + signal
2	CR_HWM	IN	Carriage motor hole device W-phase - signal
3	CR_W	OUT	Carriage motor W-phase drive signal
4	CR_HVM	IN	Carriage motor hole device V-phase - signal
5	CR_U	OUT	Carriage motor U-phase drive signal
6	GND	-	GND
7	CR_V	OUT	Carriage motor V-phase drive signal
8	SNS_5V		Power supply (+5V)
9	N.C.	-	N.C
10	CR_HVP	IN	Carriage motor hole device V-phase + signal
11	CR_HUM	IN	Carriage motor hole device U-phase - signal
12	CR_HUP	IN	Carriage motor hole device U-phase + signal

T-6-100

J3202 (Ink tank ROM PCB, Ink detection sensor)			
Pin Number	Signal name	IN/OUT	Function
1	TANK_DAT0	IN/OUT	Ink tank data signal 0
2	TANK_DAT1	IN/OUT	Ink tank data signal 1
3	TANK_3V	OUT	Power supply (+3.3V)
4	TANK_DAT2	IN/OUT	Ink tank data signal 2
5	GND	-	GND
6	TANK_CLK	OUT	Ink tank clock signal
7	TANK_DAT3	IN/OUT	Ink tank data signal 3
8	TANK_DAT4	IN/OUT	Ink tank data signal 4
9	TANK_3V	OUT	Power supply (+3.3V)
10	TANK_DAT5	IN/OUT	Ink tank data signal 5
11	GND	-	GND
12	TANK_CLK	OUT	Ink tank clock signal
13	GND	-	GND
14	INK_SNS0	IN	Ink detection sensor output signal 0
15	INK_SNS1	IN	Ink detection sensor output signal 1
16	INK_SNS2	IN	Ink detection sensor output signal 2
17	GND	-	GND
18	INK_SNS3	IN	Ink detection sensor output signal 3

J3202 (Ink tank ROM PCB, Ink detection sensor)			
Pin Number	Signal name	IN/OUT	Function
19	INK_SNS4	IN	Ink detection sensor output signal 4
20	INK_SNS5	IN	Ink detection sensor output signal 5

T-6-101

J3211 (Valve motor, Valve open/closed detection sensor 1, Feed roller HP sensor, Feed roller encoder sensor)			
Pin Number	Signal name	IN/OUT	Function
1	SNS_3V	OUT	Power supply (+3.3V)
2	GND	-	GND
3	VALVE_DETECT_SENSOR_1	IN	Valve open/closed detection sensor output signal 1
4	VALVE_MOTOR_AM	OUT	Valve motor drive signal AM
5	VALVE_MOTOR_AP	OUT	Valve motor drive signal AP
6	SNS_3V	OUT	Power supply (+3.3V)
7	GND	-	GND
8	LF_HP_SNS	IN	Feed roller HP sensor output signal
9	GND	-	GND
10	LF_ENCA	IN	Feed roller encoder sensor output signal A
11	RGV5	OUT	Power supply (+5V)
12	LF_ENCB	IN	Feed roller encoder sensor output signal B

T-6-102

J3212 (Valve open/closed detection sensor 2)			
Pin Number	Signal name	IN/OUT	Function
1	SNS_3V	OUT	Power supply (+3.3V)
2	GND	-	GND
3	VALVE_DETECT_SENSOR_2	IN	Valve open/closed detection sensor output signal 2

T-6-103

J3301 (Ink tank ROM PCB, Ink detection sensor)			
Pin Number	Signal name	IN/OUT	Function
1	TANK_DAT6_L	IN/OUT	Ink tank data signal 6
2	TANK_DAT7_L	IN/OUT	Ink tank data signal 7
3	TANK_3V	OUT	Power supply (+3.3V)
4	TANK_DAT8	IN/OUT	Ink tank data signal 8
5	GND	-	GND
6	TANK_CLK	OUT	Ink tank clock signal
7	TANK_DAT9	IN/OUT	Ink tank data signal 9
8	TANK_DAT10	IN/OUT	Ink tank data signal 10
9	TANK_3V	OUT	Power supply (+3.3V)
10	TANK_DAT11	IN/OUT	Ink tank data signal 11
11	GND	-	GND
12	TANK_CLK	OUT	Ink tank clock signal
13	GND	-	GND
14	INK_SNS6_L	IN	Ink detection sensor output signal 6
15	INK_SNS7_L	IN	Ink detection sensor output signal 7
16	INK_SNS8	IN	Ink detection sensor output signal 8
17	GND	-	GND
18	INK_SNS9	IN	Ink detection sensor output signal 9
19	INK_SNS10	IN	Ink detection sensor output signal 10
20	INK_SNS11	IN	Ink detection sensor output signal 11

T-6-104

J3401 (Connect to Carriage PCB J11)			
Pin Number	Signal name	IN/OUT	Function
1	GND	-	GND
2	GND	-	GND
3	GND	-	GND
4	GND	-	GND
5	GND	-	GND
6	GND	-	GND

J3401 (Connect to Carriage PCB J11)			
Pin Number	Signal name	IN/OUT	Function
7	GND	-	GND
8	VH	OUT	Power supply (+21.5V)
9	VH	OUT	Power supply (+21.5V)
10	VH	OUT	Power supply (+21.5V)
11	VH	OUT	Power supply (+21.5V)
12	VH	OUT	Power supply (+21.5V)
13	VH	OUT	Power supply (+21.5V)
14	VH	OUT	Power supply (+21.5V)
15	VH	OUT	Power supply (+21.5V)
16	VH	OUT	Power supply (+21.5V)
17	VH	OUT	Power supply (+21.5V)
18	VH	OUT	Power supply (+21.5V)
19	VH	OUT	Power supply (+21.5V)
20	VH	OUT	Power supply (+21.5V)
21	VH	OUT	Power supply (+21.5V)
22	VH	OUT	Power supply (+21.5V)
23	VH	OUT	Power supply (+21.5V)
24	GND	-	GND
25	GND	-	GND
26	GND	-	GND
27	GND	-	GND
28	GND	-	GND
29	GND	-	GND
30	GND	-	GND

T-6-105

J3402 (Connect to Carriage PCB J21)			
Pin Number	Signal name	IN/OUT	Function
1	GND	-	GND
2	GND	-	GND
3	GND	-	GND
4	GND	-	GND
5	GND	-	GND
6	GND	-	GND
7	VH	OUT	Power supply (+21.5V)
8	VH	OUT	Power supply (+21.5V)
9	VH	OUT	Power supply (+21.5V)
10	VH	OUT	Power supply (+21.5V)
11	VH	OUT	Power supply (+21.5V)
12	VH	OUT	Power supply (+21.5V)
13	VH	OUT	Power supply (+21.5V)
14	VH	OUT	Power supply (+21.5V)
15	VH	OUT	Power supply (+21.5V)
16	VH	OUT	Power supply (+21.5V)
17	VH	OUT	Power supply (+21.5V)
18	VH	OUT	Power supply (+21.5V)
19	VH	OUT	Power supply (+21.5V)
20	VH	OUT	Power supply (+21.5V)
21	VH	OUT	Power supply (+21.5V)
22	HD1_VHFBH	IN	VH feed back voltage +
23	HD1_VHFBG	IN	VH feed back voltage -
24	GND	-	GND
25	GND	-	GND
26	GND	-	GND
27	GND	-	GND
28	GND	-	GND
29	GND	-	GND
30	GND	-	GND

T-6-106

J3411 (Temperature/humidity detection sensor)			
Pin Number	Signal name	IN/OUT	Function
1	TH2_OUT	IN	Thermistor output signal
2	GND	-	GND
3	RHV_OUT	IN	Temperature/humidity detection sensor output signal
4	SNS_5V		Power supply (+5V)

T-6-107

J3501 (Connect to Carriage PCB J12)			
Pin Number	Signal name	IN/OUT	Function
1	GND	-	GND
2	GND	-	GND
3	H-DASH LICC2 B	OUT	Analogue switch A/D trigger signal
4	GND	-	GND
5	H0-D-DATA-7-OD	OUT	Odd head R data signal 7(D)
6	GND	-	GND
7	H0-E-HE-8	OUT	Head R heat enable signal 8(E)
8	GND	-	GND
9	H0-E-DATA-8-OD	OUT	Odd head R data signal 8(E)
10	GND	-	GND
11	H0-F-DATA-10-OD	OUT	Odd head R data signal 10(F)
12	GND	-	GND
13	H0-E-DATA-9-OD	OUT	Odd head R data signal 9(E)
14	GND	-	GND
15	H0-F-HE-10	OUT	Head R heat enable signal 10(F)
16	GND	-	GND
17	H0-F-DATA-11-OD	OUT	Odd head R data signal 11(F)
18	GND	-	GND
19	H0-F-HE-11	OUT	Head R heat enable signal 11(F)
20	GND	-	GND
21	H0-F-DATA-11-EV	OUT	Even head R data signal 11(F)
22	GND	-	GND
23	H0-F-DATA-10-EV	OUT	Even head R data signal 10(F)
24	GND	-	GND
25	H0-E-HE-9	OUT	Head R heat enable signal 9(E)
26	GND	-	GND
27	H0-E-DATA-9-EV	OUT	Even head R data signal 9(E)
28	GND	-	GND
29	GND	-	GND
30	GND	-	GND
31	GND	-	GND
32	GND	-	GND
33	GND	-	GND
34	GND	-	GND
35	H0-A-DATA-0-OD	OUT	Odd head R data signal 0(A)
36	GND	-	GND
37	H0-A-DATA-1-OD	OUT	Odd head R data signal 1(A)
38	GND	-	GND
39	H0-B-HE-2	OUT	Head R heat enable signal 2(B)
40	GND	-	GND
41	H0-B-DATA-2-OD	OUT	Odd head R data signal 2(B)
42	GND	-	GND
43	H0-B-DATA-3-OD	OUT	Odd head R data signal 3(B)
44	GND	-	GND
45	H0-C-HE-4	OUT	Head R heat enable signal 4(C)
46	GND	-	GND
47	H0-C-DATA-4-OD	OUT	Odd head R data signal 4(C)
48	SNS_5V	OUT	Power supply (+5V)
49	GND	-	GND
50	GND	-	GND

T-6-108

J3601 (Connect to Carriage PCB J13)			
Pin Number	Signal name	IN/OUT	Function
1	H0-E-DATA-8	OUT	Even head R data signal 8(E)
2	GND	-	GND
3	H0-D-HE-7	OUT	Head R heat enable signal 7(D)
4	GND	-	GND
5	H0-D-DATA-7-EV	OUT	Even head R data signal 7(D)
6	GND	-	GND
7	H0-D-DATA-6-EB	OUT	Even head R data signal 6(D)
8	GND	-	GND
9	H0-D-DATA-6-OD	OUT	Odd head R data signal 6(D)
10	GND	-	GND
11	H0-D-HE-6	OUT	Head R heat enable signal 6(D)
12	GND	-	GND
13	H0-C-HE-5	OUT	Head R heat enable signal 5(C)
14	GND	-	GND
15	H0-C-DATA-5-OD	OUT	Odd head R data signal 5(C)
16	GND	-	GND
17	H0-DSOUT2	IN	Head R temperature output 2
18	GND	-	GND
19	H0-DSOUT1	IN	Head R temperature output 1
20	GND	-	GND
21	GND	-	GND
22	LICSEL0	OUT	Head R analogue switch clock signal
23	LICSEL2	OUT	Head R analogue switch latch signal
24	LICSEL1	OUT	Head R analogue switch data signal
25	GND	-	GND
26	GND	-	GND
27	H0_CLK	OUT	Head R data clock signal
28	GND	-	GND
29	H0-LT	OUT	Head R data latch signal
30	HEAD_3V	OUT	Power supply (+3V)
31	HEAD_3V	OUT	Power supply (+3V)
32	GND	-	GND
33	H0-C-DATA-5-EV	OUT	Even head R data signal 5(C)
34	GND	-	GND
35	H0-B-HE-3	OUT	Head R heat enable signal 3(B)
36	GND	-	GND
37	H0-C-DATA-4-EV	OUT	Even head R data signal 4(C)
38	GND	-	GND
39	H0-B-DATA-3-EV	OUT	Even head R data signal 3(B)
40	GND	-	GND
41	H0-B-DATA-2-EV	OUT	Even head R data signal 2(B)
42	GND	-	GND
43	H0-A-DATA-1-EV	OUT	Even head R data signal 1(A)
44	GND	-	GND
45	H0-A-HE-1	OUT	Head R heat enable signal 1(A)
46	GND	-	GND
47	H0-A-DATA-0-EV	OUT	Even head R data signal 0(A)
48	GND	-	GND
49	H0-A-HE-0_B	OUT	Head R heat enable signal 0(A)
50	GND	-	GND

T-6-109

J3701 (Connect to Carriage PCB J22)			
Pin Number	Signal name	IN/OUT	Function
1	H1-D-DATA-7-OD	OUT	Odd head L data signal 7(D)
2	GND	-	GND
3	H1-E-HE-8	OUT	Head L heat enable signal 8(E)
4	GND	-	GND

J3701 (Connect to Carriage PCB J22)			
Pin Number	Signal name	IN/OUT	Function
5	H1-E-DATA-8-OD	OUT	Odd head L data signal 8(E)
6	GND	-	GND
7	H1-F-DATA-10-OD	OUT	Odd head L data signal 10(F)
8	GND	-	GND
9	H1-E-DATA-9-OD	OUT	Odd head L data signal 9(E)
10	GND	-	GND
11	H1-F-HE-10	OUT	Head L heat enable signal 10(F)
12	GND	-	GND
13	H1-F-DATA-11-OD	OUT	Odd head L data signal 11(F)
14	GND	-	GND
15	H1-F-HE-11	OUT	Head L heat enable signal 11(F)
16	GND	-	GND
17	H1-F-DATA-11-EV	OUT	Even head L data signal 11(F)
18	GND	-	GND
19	H1-F-DATA-10-EV	OUT	Even head L data signal 10(F)
20	GND	-	GND
21	H1-E-HE-9	OUT	Head L heat enable signal 9(E)
22	GND	-	GND
23	H1-E-DATA-9-EV	OUT	Even head L data signal 9(E)
24	H1-DLD LICC2	OUT	Head L analogue switch latch signal
25	H1-DATA LICC2	OUT	Head L analogue switch data signal
26	H1-DASLK LICC2	OUT	Head L analogue switch clock signal
27	GND	-	GND
28	H1-DSOUT2	IN	Head L temperature output 2
29	H1-DSOUT1	IN	Head L temperature output 1
30	GND	-	GND
31	PWLED4_ON	OUT	Multi sensor LED 4 drive signal
32	PWLED3_ON	OUT	Multi sensor LED 3 drive signal
33	PWLED2_ON	OUT	Multi sensor LED 2 drive signal
34	PWLED1_ON	OUT	Multi sensor LED 1 drive signal
35	GND	-	GND
36	MLT_SNS_1IN	IN	Multi sensor signal 1
37	MLT_SNS_2IN	IN	Multi sensor signal 2
38	GND	-	GND
39	H1-B-DATA-2-OD	OUT	Odd head L data signal 2(B)
40	GND	-	GND
41	H1-B-DATA-3-OD	OUT	Odd head L data signal 3(B)
42	GND	-	GND
43	H1-C-HE-4	OUT	Head L heat enable signal 4(C)
44	GND	-	GND
45	H1-C-DATA-4-OD	OUT	Odd head L data signal 4(C)
46	SNS_5V	OUT	Power supply (+5V)
47	ENCODER_B	IN	Carriage encoder output signalB
48	SNS_5V	OUT	Power supply (+5V)
49	ENCODER_A	IN	Carriage encoder output signalA
50	GND	-	GND

T-6-110

J3801 (Connect to Carriage PCB J23)			
Pin Number	Signal name	IN/OUT	Function
1	H1-E-DATA-8-EV	OUT	Even head L data signal 8(E)
2	GND	-	GND
3	H1-D-HE-7	OUT	Head L heat enable signal 7(D)
4	GND	-	GND
5	IO-ASIC_SDA	IN/OUT	Head ROM control signal (data)
6	GND	-	GND
7	H1-D-DATA-7-EV	OUT	Even head L data signal 7(D)
8	GND	-	GND
9	H1-D-DATA-6-EV	OUT	Even head L data signal 6(D)
10	GND	-	GND

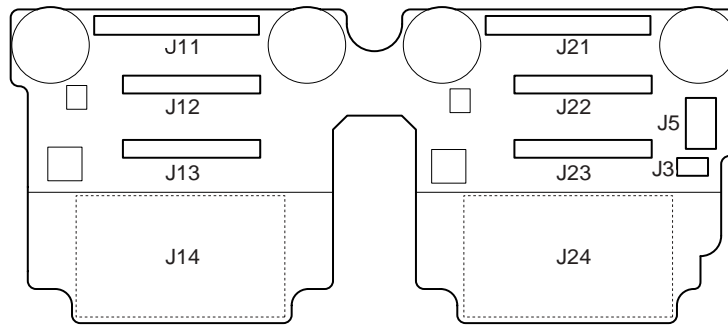
J3801 (Connect to Carriage PCB J23)			
Pin Number	Signal name	IN/OUT	Function
11	H1-D-DATA-6-OD	OUT	Odd head L data signal 6(D)
12	GND	-	GND
13	IO-ASIC_SCL	IN/OUT	Head ROM control signal (clock)
14	GND	-	GND
15	H1-D-HE-6	OUT	Head L heat enable signal 6(D)
16	GND	-	GND
17	H1-C-HE-5	OUT	Head L heat enable signal 5(C)
18	GND	-	GND
19	H1-C-DATA-5-OD	OUT	Odd head L data signal 5(C)
20	GND	-	GND
21	H1_CLK	OUT	Head L clock signal
22	GND	-	GND
23	HEAD_3V	OUT	Power supply (+3V)
24	GND	-	GND
25	H1_LT	OUT	Head L latch signal
26	H-DASH_LICC2_B	OUT	Analogue switch A/D trigger signal
27	H1-C-DATA-5-EV	OUT	Even head L data signal 5(C)
28	GND	-	GND
29	H1-B-HE-3	OUT	Head L heat enable signal 3(B)
30	GND	-	GND
31	H1-C-DATA-4-EV	OUT	Even head L data signal 4(C)
32	GND	-	GND
33	H1-B-DATA-3-EV	OUT	Even head L data signal 3(B)
34	GND	-	GND
35	H1-B-DATA-2-EV	OUT	Even head L data signal 2(B)
36	GND	-	GND
37	H1-A-DATA-1-EV	OUT	Even head L data signal 1(A)
38	GND	-	GND
39	H1-A-HE-1	OUT	Head L heat enable signal 1(A)
40	GND	-	GND
41	H1-A-DATA-0-EV	OUT	Even head L data signal 0(A)
42	GND	-	GND
43	H1-A-HE-0	OUT	Head L heat enable signal 0(A)
44	GND	-	GND
45	H1-A-DATA-0-OD	OUT	Odd head L data signal 0(A)
46	GND	-	GND
47	H1-A-DATA-1-OD	OUT	Odd head L data signal 1(A)
48	GND	-	GND
49	H1-B-HE-2	OUT	Head L heat enable signal 2(B)
50	GND	-	GND

T-6-111

J3911 (Cutter lift motor / Top cover sensor / Ink tank cover switch / Cutter HP sensor / Cutter lift sensor)			
Pin Number	Signal name	IN/OUT	Function
1	TANK_COVER_SW	IN	Ink tank cover switch output signal
2	GND	-	GND
3	SNS_3V	OUT	Power supply (+3.3V)
4	GND	-	GND
5	TOP_COVER_SNS	IN	Top cover sensor output signal
6	SNS_3V	OUT	Power supply (+3.3V)
7	GND	-	GND
8	CUTTER_L_SNS	IN	Cutter HP sensor signal
9	SNS_5V		Power supply (+5V)
10	GND	-	GND
11	CUTTER_POS1_SNS	IN	Cutter lift sensor output signal
12	CUTTER_OUT_SC-	OUT	Cutter lift motor drive signal SC-
13	CUTTER_OUT_SC+	OUT	Cutter lift motor drive signal SC+

6.2.6 Carriage PCB

iPF6100 / iPF6200 / iPF6000S / iPF6300 / iPF6350 / iPF6300S

F-6-6
T-6-112

J3			
Pin Number	Signal name	IN/OUT	Function
1	ENCODER_B	IN	Linear encoder detection signal B
2	GND	-	GND
3	ENCODER_A	IN	Linear encoder detection signal A
4	H1_5V	OUT	Power supply (+5V)

T-6-113

J5			
Pin Number	Signal name	IN/OUT	Function
1	HEAD_3V	OUT	Power supply (+3V)
2	EEPROM_SCL	OUT	EEPROM control signal (clock)
3	EEPROM_SDA	IN/OUT	EEPROM control signal (data)
4	GND	-	GND
5	PWLED1	OUT	Multi sensor LED1 drive signal
6	PWLED2	OUT	Multi sensor LED2 drive signal
7	PWLED3	OUT	Multi sensor LED3 drive signal
8	PWLED4	OUT	Multi sensor LED4 drive signal
9	VH	OUT	Power supply (+21.5V)
10	OUT1	IN	Multi sensor input signal 1
11	OUT2	IN	Multi sensor input signal 2
12	H1-5V	OUT	Power supply (+5V)

T-6-114

J11 (Connect to Main controller PCB J3401)			
Pin Number	Signal name	IN/OUT	Function
1	GND	-	GND
2	GND	-	GND
3	GND	-	GND
4	GND	-	GND
5	GND	-	GND
6	GND	-	GND
7	GND	-	GND
8	VH	IN	Power supply (+21.5V)
9	VH	IN	Power supply (+21.5V)
10	VH	IN	Power supply (+21.5V)
11	VH	IN	Power supply (+21.5V)
12	VH	IN	Power supply (+21.5V)
13	VH	IN	Power supply (+21.5V)
14	VH	IN	Power supply (+21.5V)
15	VH	IN	Power supply (+21.5V)
16	VH	IN	Power supply (+21.5V)
17	VH	IN	Power supply (+21.5V)
18	VH	IN	Power supply (+21.5V)

J11 (Connect to Main controller PCB J3401)			
Pin Number	Signal name	IN/OUT	Function
19	VH	IN	Power supply (+21.5V)
20	VH	IN	Power supply (+21.5V)
21	VH	IN	Power supply (+21.5V)
22	VH	IN	Power supply (+21.5V)
23	VH	IN	Power supply (+21.5V)
24	GND	-	GND
25	GND	-	GND
26	GND	-	GND
27	GND	-	GND
28	GND	-	GND
29	GND	-	GND
30	GND	-	GND

T-6-115

J12 (Connect to Main controller PCB J3501)			
Pin Number	Signal name	IN/OUT	Function
1	GND	-	GND
2	GND	-	GND
3	SNS_5V	IN	Power supply (+5V)
4	H0-C-DATA-4-OD	IN	Odd head R data signal 4(C)
5	GND	-	GND
6	H0-C-HE-4	IN	Head R heat enable signal 4(C)
7	GND	-	GND
8	H0-B-DATA-3-OD	IN	Odd head R data signal 3(B)
9	GND	-	GND
10	H0-B-DATA-2-OD	IN	Odd head R data signal 2(B)
11	GND	-	GND
12	H0-B-HE-2	IN	Head R heat enable signal 2(B)
13	GND	-	GND
14	H0-A-DATA-1-OD	IN	Odd head R data signal 1(A)
15	GND	-	GND
16	H0-A-DATA-0-OD	IN	Odd head R data signal 0(A)
17	GND	-	GND
18	GND	-	GND
19	GND	-	GND
20	GND	-	GND
21	GND	-	GND
22	GND	-	GND
23	GND	-	GND
24	H0-E-DATA-9-EV	IN	Even head R data signal 9(E)
25	GND	-	GND
26	H0-E-HE-9	IN	Head R heat enable signal 9(E)
27	GND	-	GND
28	H0-F-DATA-10-EV	IN	Even head R data signal 10(F)
29	GND	-	GND
30	H0-F-DATA-11-EV	IN	Even head R data signal 11(F)
31	GND	-	GND
32	H0-F-HE-11	IN	Head R heat enable signal 11(F)
33	GND	-	GND
34	H0-F-DATA-11-OD	IN	Odd head R data signal 11(F)
35	GND	-	GND
36	H0-F-HE-10	IN	Head R heat enable signal 10(F)
37	GND	-	GND
38	H0-E-DATA-9-OD	IN	Odd head R data signal 9(E)
39	GND	-	GND
40	H0-F-DATA-10-OD	IN	Odd head R data signal 10(F)
41	GND	-	GND
42	H0-E-DATA-8-OD	IN	Odd head R data signal 8(E)
43	GND	-	GND
44	H0-E-HE-8	IN	Head R heat enable signal 8(E)

J12 (Connect to Main controller PCB J3501)			
Pin Number	Signal name	IN/OUT	Function
45	GND	-	GND
46	H0-D-DATA-7-OD	IN	Odd head R data signal 7(D)
47	GND	-	GND
48	H-DASH LICC2 B	IN	Analogue switch A/D trigger signal
49	GND	-	GND
50	GND	-	GND

T-6-116

J13 (Connect to Main controller PCB J3601)			
Pin Number	Signal name	IN/OUT	Function
1	GND	-	GND
2	H0-A-HE-0	IN	Head R heat enable signal 8(E)
3	GND	-	GND
4	H0-A-DATA-0-EV	IN	Even head R data signal 0(A)
5	GND	-	GND
6	H0-A-HE-1	IN	Head R heat enable signal 8(E)
7	GND	-	GND
8	H0-A-DATA-1-EV	IN	Even head R data signal 1(A)
9	GND	-	GND
10	H0-B-DATA-2-EV	IN	Even head R data signal 2(B)
11	GND	-	GND
12	H0-B-DATA-3-EV	IN	Even head R data signal 3(B)
13	GND	-	GND
14	H0-C-DATA-4-EV	IN	Even head R data signal 4(C)
15	GND	-	GND
16	H0-B-HE-3	IN	Head R heat enable signal 8(E)
17	GND	-	GND
18	H0-C-DATA-5-EV	IN	Even head R data signal 5(C)
19	HEAD_3V	IN	Power supply (+3V)
20	HEAD_3V	IN	Power supply (+3V)
21	GND	-	GND
22	H0-LT	IN	Head R data latch signal
23	GND	-	GND
24	H0_CLK	IN	Head R data clock signal
25	GND	-	GND
26	GND	-	GND
27	LICSEL1	IN	Head R analogue switch latch signal
28	LICSEL2	IN	Head R analogue switch clock signal
29	LICSEL0	IN	Head R analogue switch data signal
30	GND	-	GND
31	GND	-	GND
32	H0-DSOUT1	OUT	Head R temperature output 1
33	GND	-	GND
34	H0-DSOUT2	OUT	Head R temperature output 2
35	GND	-	GND
36	H0-C-DATA-5-OD	IN	Odd head R data signal 5(C)
37	GND	-	GND
38	H0-C-HE-5	IN	Head R heat enable signal 5(C)
39	GND	-	GND
40	H0-D-HE-6	IN	Head R heat enable signal 6(D)
41	GND	-	GND
42	H0-D-DATA-6-OD	IN	Odd head R data signal 6(D)
43	GND	-	GND
44	H0-D-DATA-6-EB	IN	Even head R data signal 6(D)
45	GND	-	GND
46	H0-D-DATA-7-EV	IN	Even head R data signal 7(D)
47	GND	-	GND
48	H0-D-HE-7	IN	Head R heat enable signal 7(D)
49	GND	-	GND
50	H0-E-DATA-8	IN	Even head R data signal 8(E)

T-6-117

J14 (Head R)			
Pin Number	Signal name	IN/OUT	Function
1	VH	OUT	Power supply (+21.5V)
2	VH	OUT	Power supply (+21.5V)
3	VH	OUT	Power supply (+21.5V)
4	VHT	OUT	Head R Transistor drive Power supply
5	H0-F-DATA-10-EV	OUT	Even head R data signal 10(F)
6	EEPROM_SDA	IN/OUT	EEPROMcontrol signal (data)
7	EEPROM_SCL	OUT	EEPROMcontrol signal (clock)
8	HEAD_3V	OUT	Power supply (+3V)
9	H0-C-DIA1	IN	Head R DI sensor signal 1(C)
10	H0-A-HE-1	OUT	Head R heat enable signal 8(E)
11	VH	OUT	Power supply (+21.5V)
12	VH	OUT	Power supply (+21.5V)
13	VH	OUT	Power supply (+21.5V)
14	VH	OUT	Power supply (+21.5V)
15	VH	OUT	Power supply (+21.5V)
16	H0-E-DATA-9-OD	OUT	Odd head R data signal 9(E)
17	H0-F-HE-11	OUT	Head R heat enable signal 11(F)
18	H0-E-DIA1	IN	Head R DI sensor signal 1(E)
19	H0-D-DIA1	IN	Head R DI sensor signal 1(D)
20	GND	-	GND
21	HEAD_3V	OUT	Power supply (+3V)
22	H0-B-DATA-3-EV	OUT	Even head R data signal 3(B)
23	H0-A-DATA-0-EV	OUT	Even head R data signal 0(A)
24	H0-B-HE-2	OUT	Head R heat enable signal 2(B)
25	VH	OUT	Power supply (+21.5V)
26	VH	OUT	Power supply (+21.5V)
27	H0-D-DIA2	IN	Head R DI sensor signal 2(D)
28	H0-E-HE-8	OUT	Head R heat enable signal 8(E)
29	H0-E-DIA2	IN	Head R DI sensor signal 2(E)
30	H0-F-DIA2	IN	Head R DI sensor signal 2(F)
31	H0-E-HE-9	OUT	Head R heat enable signal 9(E)
32	H0-D-DATA-7-EV	OUT	Even head R data signal 7(D)
33	H0-D-HE-6	OUT	Head R heat enable signal 6(D)
34	H0-C-DATA-5-OD	OUT	Odd head R data signal 5(C)
35	H0-C-DATA-4-EV	OUT	Even head R data signal 4(C)
36	H0-A-DATA-1-EV	OUT	Even head R data signal 1(A)
37	H0-A-DIA2	IN	Head R DI sensor signal 2(A)
38	H0-B-DIA2	IN	Head R DI sensor signal 2(B)
39	H0-C-HE-4	OUT	Head R heat enable signal 4(C)
40	H0-D-DATA-7-OD	OUT	Odd head R data signal 7(D)
41	H0-E-DATA-8-OD	OUT	Odd head R data signal 8(E)
42	H0-F-HE-10	OUT	Head R heat enable signal 10(F)
43	H0-F-DATA-11-EV	OUT	Even head R data signal 11(F)
44	H0-F-DATA-8-EV	OUT	Even head R data signal 8(F)
45	H0-D-DATA-6-EV	OUT	Even head R data signal 6(D)
46	H0-C-DIA2	IN	Head R DI sensor signal 2(C)
47	H0-C-DATA-5-EV	OUT	Even head R data signal 5(C)
48	H0-B-DIA1	IN	Head R DI sensor signal 1(B)
49	H0-A-HE-0	OUT	Head R heat enable signal 8(E)
50	H0-B-DATA-2-OD	OUT	Odd head R data signal 2(B)
51	H0-B-DATA-3-OD	OUT	Odd head R data signal 3(B)
52	H0-C-DATA-4-OD	OUT	Odd head R data signal 4(C)
53	GND	-	GND
54	GND	-	GND
55	GND	-	GND
56	H0-F-DATA-11-OD	OUT	Odd head R data signal 11(F)
57	H0-E-DATA-9-EV	OUT	Even head R data signal 9(E)
58	GND	-	GND

J14 (Head R)			
Pin Number	Signal name	IN/OUT	Function
59	H0-D-DATA-6-OD	OUT	Odd head R data signal 6(D)
60	H0-C-HE-5	OUT	Head R heat enable signal 5(C)
61	H0-B-HE-3	OUT	Head R heat enable signal 8(E)
62	H0-A-DIA1	IN	Head R DI sensor signal 1(A)
63	H0-A-DATA-1-OD	OUT	Odd head R data signal 1(A)
64	GND	-	GND
65	GND	-	GND
66	GND	-	GND
67	GND	-	GND
68	H0-F-DATA-10-OD	OUT	Odd head R data signal 10(F)
69	H0-F-DIA1	IN	Head R DI sensor signal 1(F)
70	H0-D-HE-7	OUT	Head R heat enable signal 7(D)
71	GND	-	GND
72	H0-CLK	OUT	Head R data clock signal
73	H0-LT	OUT	Head R data latch signal
74	H0-B-DATA-2-EV	OUT	Even head R data signal 2(B)
75	H0-A-DATA-0-OD	OUT	Odd head R data signal 0(A)
76	GND	-	GND
77	GND	-	GND
78	GND	-	GND

T-6-118

J21 (Connect to Main controller PCB J3402)			
Pin Number	Signal name	IN/OUT	Function
1	GND	-	GND
2	GND	-	GND
3	GND	-	GND
4	GND	-	GND
5	GND	-	GND
6	GND	-	GND
7	GND	-	GND
8	HD1_VHFBG	OUT	VH feed back voltage -
9	HD1_VHFBH	OUT	VH feed back voltage +
10	VH	IN	Power supply (+21.5V)
11	VH	IN	Power supply (+21.5V)
12	VH	IN	Power supply (+21.5V)
13	VH	IN	Power supply (+21.5V)
14	VH	IN	Power supply (+21.5V)
15	VH	IN	Power supply (+21.5V)
16	VH	IN	Power supply (+21.5V)
17	VH	IN	Power supply (+21.5V)
18	VH	IN	Power supply (+21.5V)
19	VH	IN	Power supply (+21.5V)
20	VH	IN	Power supply (+21.5V)
21	VH	IN	Power supply (+21.5V)
22	VH	IN	Power supply (+21.5V)
23	VH	IN	Power supply (+21.5V)
24	VH	IN	Power supply (+21.5V)
25	GND	-	GND
26	GND	-	GND
27	GND	-	GND
28	GND	-	GND
29	GND	-	GND
30	GND	-	GND

T-6-119

J22 (Connect to Main controller PCB J3701)			
Pin Number	Signal name	IN/OUT	Function
1	GND	-	GND

J22 (Connect to Main controller PCB J3701)			
Pin Number	Signal name	IN/OUT	Function
2	ENCODER_A	OUT	Linear encoder output signal A
3	SNS_5V	IN	Power supply (+5V)
4	ENCODER_B	OUT	Linear encoder output signal B
5	SNS_5V	IN	Power supply (+5V)
6	H1-C-DATA-4-OD	IN	Odd head L data signal 4(C)
7	GND	-	GND
8	H1-C-HE-4	IN	Head L heat enable signal 8(E)
9	GND	-	GND
10	H1-B-DATA-3-OD	IN	Odd head L data signal 3(B)
11	GND	-	GND
12	H1-B-DATA-2-OD	IN	Odd head L data signal 2(B)
13	GND	-	GND
14	MLT_SNS_2IN	OUT	Multi sensor signal 2
15	MLT_SNS_1IN	OUT	Multi sensor signal 1
16	GND	-	GND
17	PWLED1_ON	IN	Multi sensor LED 1 drive signal
18	PWLED2_ON	IN	Multi sensor LED 2 drive signal
19	PWLED3_ON	IN	Multi sensor LED 3 drive signal
20	PWLED4_ON	IN	Multi sensor LED 4 drive signal
21	GND	-	GND
22	H1-DSOUT1	OUT	Head L temperature output 1
23	H1-DSOUT2	OUT	Head L temperature output 2
24	GND	-	GND
25	H1-DASLK LICC2	IN	Head L analogue switch clock signal
26	H1-DATA LICC2	IN	Head L analogue switch data signal
27	H1-DLD LICC2	IN	Head L analogue switch latch signal
28	H1-E-DATA-9-EV	IN	Even head L data signal 9(E)
29	GND	-	GND
30	H1-E-HE-9	IN	Head L heat enable signal 9(E)
31	GND	-	GND
32	H1-F-DATA-10-EV	IN	Even head L data signal 10(F)
33	GND	-	GND
34	H1-F-DATA-11-EV	IN	Even head L data signal 11(F)
35	GND	-	GND
36	H1-F-HE-11	IN	Head L heat enable signal 11(F)
37	GND	-	GND
38	H1-F-DATA-11-OD	IN	Odd head L data signal 11(F)
39	GND	-	GND
40	H1-F-HE-10	IN	Head L heat enable signal 10(F)
41	GND	-	GND
42	H1-E-DATA-9-OD	IN	Odd head L data signal 9(E)
43	GND	-	GND
44	H1-F-DATA-10-OD	IN	Odd head L data signal 10(F)
45	GND	-	GND
46	H1-E-DATA-8-OD	IN	Odd head L data signal 8(E)
47	GND	-	GND
48	H1-E-HE-8	IN	Head L heat enable signal 8(E)
49	GND	-	GND
50	H1-D-DATA-7-OD	IN	Odd head L data signal 7(D)

T-6-120

J23 (Connect to Main controller PCB J3801)			
Pin Number	Signal name	IN/OUT	Function
1	GND	-	GND
2	H1-B-HE-2	IN	Head L heat enable signal 2(B)
3	GND	-	GND
4	H1-A-DATA-1-OD	IN	Odd head L data signal 1(A)
5	GND	-	GND
6	H1-A-DATA-0-OD	IN	Odd head L data signal 0(A)
7	GND	-	GND

J23 (Connect to Main controller PCB J3801)			
Pin Number	Signal name	IN/OUT	Function
8	H1-A-HE-0	IN	Head L heat enable signal 0(A)
9	GND	-	GND
10	H1-A-DATA-0-EV	IN	Even head L data signal 0(A)
11	GND	-	GND
12	H1-A-HE-1	IN	Head L heat enable signal 1(A)
13	GND	-	GND
14	H1-A-DATA-1-EV	IN	Even head L data signal 1(A)
15	GND	-	GND
16	H1-B-DATA-2-EV	IN	Even head L data signal 2(B)
17	GND	-	GND
18	H1-B-DATA-3-EV	IN	Even head L data signal 3(B)
19	GND	-	GND
20	H1-C-DATA-4-EV	IN	Even head L data signal 4(C)
21	GND	-	GND
22	H1-B-HE-3	IN	Head L heat enable signal 3(B)
23	GND	-	GND
24	H1-C-DATA-5-EV	IN	Even head L data signal 5(C)
25	H-DASH_LICC2_B	IN	Analogue switch A/D trigger signal
26	H1_LT	IN	Head L latch signal
27	GND	-	GND
28	HEAD_3V	IN	Power supply (+3V)
29	GND	-	GND
30	H1_CLK	IN	Head L clock signal
31	GND	-	GND
32	H1-C-DATA-5-OD	IN	Odd head L data signal 5(C)
33	GND	-	GND
34	H1-C-HE-5	IN	Head L heat enable signal 5(C)
35	GND	-	GND
36	H1-D-HE-6	IN	Head L heat enable signal 6(D)
37	GND	-	GND
38	IO-ASIC_SCL	IN/OUT	Head ROM control signal (clock)
39	GND	-	GND
40	H1-D-DATA-6-OD	IN	Odd head L data signal 6(D)
41	GND	-	GND
42	H1-D-DATA-6-EV	IN	Even head L data signal 6(D)
43	GND	-	GND
44	H1-D-DATA-7-EV	IN	Even head L data signal 7(D)
45	GND	-	GND
46	IO-ASIC_SDA	IN/OUT	Head ROM control signal (data)
47	GND	-	GND
48	H1-D-HE-7	IN	Head L heat enable signal 7(D)
49	GND	-	GND
50	H1-E-DATA-8-EV	IN	Even head L data signal 8(E)

T-6-121

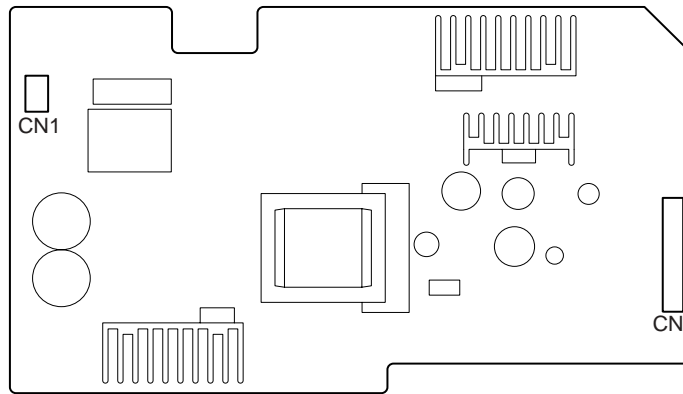
J24 (Head L)			
Pin Number	Signal name	IN/OUT	Function
1	VH	OUT	Power supply (+21.5V)
2	VH	OUT	Power supply (+21.5V)
3	VH	OUT	Power supply (+21.5V)
4	VHT2	OUT	Head L transistor drive power supply
5	H1-F-DATA-10-EV	OUT	Even head L data signal 10(F)
6	EEPROM_SDA	IN/OUT	EEPROM control signal (data)
7	EEPROM_SCL	OUT	EEPROM control signal (clock)
8	HEAD_3V	OUT	Power supply (+3V)
9	H1-C-DIA1	IN	Head L DI sensor signal 1(C)
10	H1-A-HE-1	OUT	Head L heat enable signal 1(A)
11	VH	OUT	Power supply (+21.5V)
12	VH	OUT	Power supply (+21.5V)
13	VH	OUT	Power supply (+21.5V)

J24 (Head L)			
Pin Number	Signal name	IN/OUT	Function
14	VH	OUT	Power supply (+21.5V)
15	VH	OUT	Power supply (+21.5V)
16	H1-E-DATA-9-OD	OUT	Odd head L data signal 9(E)
17	H1-F-HE-11	OUT	Head L heat enable signal 11(F)
18	H1-E-DIA1	IN	Head L DI sensor signal 1(E)
19	H1-D-DIA1	IN	Head L DI sensor signal 1(D)
20	HEAD_3V	OUT	Power supply (+3V)
21	HEAD_3V	OUT	Power supply (+3V)
22	H1-B-DATA-3-EV	OUT	Even head L data signal 3(B)
23	H1-A-DATA-0-EV	OUT	Even head L data signal 0(A)
24	H1-B-HE-2	OUT	Head L heat enable signal 2(B)
25	VH	OUT	Power supply (+21.5V)
26	VH	OUT	Power supply (+21.5V)
27	H1-D-DIA2	IN	Head L DI sensor signal 2(D)
28	H1-E-HE-8	OUT	Head L heat enable signal 8(E)
29	H1-E-DIA2	IN	Head L DI sensor signal 2(E)
30	H1-F-DIA2	IN	Head L DI sensor signal 2(F)
31	H1-E-HE-9	OUT	Head L heat enable signal 9(E)
32	H1-D-DATA-7-EV	OUT	Even head L data signal 7(D)
33	H1-D-HE-6	OUT	Head L heat enable signal 6(D)
34	H1-C-DATA-5-OD	OUT	Odd head L data signal 5(C)
35	H1-C-DATA-4-EV	OUT	Even head L data signal 4(C)
36	H1-A-DATA-1-EV	OUT	Even head L data signal 1(A)
37	H1-A-DIA2	IN	Head L DI sensor signal 2(A)
38	H1-B-DIA2	IN	Head L DI sensor signal 2(B)
39	H1-C-HE-4	OUT	Head L heat enable signal 8(E)
40	H1-D-DATA-7-OD	OUT	Odd head L data signal 7(D)
41	H1-E-DATA-8-OD	OUT	Odd head L data signal 8(E)
42	H1-F-HE-10	OUT	Head L heat enable signal 10(F)
43	H1-F-DATA-11-EV	OUT	Even head L data signal 11(F)
44	H1-F-DATA-8-EV	OUT	Even head L data signal 8(F)
45	H1-D-DATA-6-EV	OUT	Even head L data signal 6(D)
46	H1-C-DIA2	IN	Head L DI sensor signal 2(C)
47	H1-C-DATA-5-EV	OUT	Even head L data signal 5(C)
48	H1-B-DIA1	IN	Head L DI sensor signal 1(B)
49	H1-A-HE-0	OUT	Head L heat enable signal 0(A)
50	H1-B-DATA-2-OD	OUT	Odd head L data signal 2(B)
51	H1-B-DATA-3-OD	OUT	Odd head L data signal 3(B)
52	H1-C-DATA-4-OD	OUT	Odd head L data signal 4(C)
53	GND	-	GND
54	GND	-	GND
55	GND	-	GND
56	H1-F-DATA-11-OD	OUT	Odd head L data signal 11(F)
57	H1-E-DATA-9-EV	OUT	Even head L data signal 9(E)
58	GND	-	GND
59	H1-D-DATA-6-OD	OUT	Odd head L data signal 6(D)
60	H1-C-HE-5	OUT	Head L heat enable signal 5(C)
61	H1-B-HE-3	OUT	Head L heat enable signal 3(B)
62	H1-A-DIA1	IN	Head L DI sensor signal 1(A)
63	H1-A-DATA-1-OD	OUT	Odd head L data signal 1(A)
64	GND	-	GND
65	GND	-	GND
66	GND	-	GND
67	GND	-	GND
68	H1-F-DATA-10-OD	OUT	Odd head L data signal 10(F)
69	H1-F-DIA1	IN	Head L DI sensor signal 1(F)
70	H1-D-HE-7	OUT	Head L heat enable signal 7(D)
71	GND	-	GND
72	H1-CLK	OUT	Head L clock signal

J24 (Head L)			
Pin Number	Signal name	IN/OUT	Function
73	H1-LT	OUT	Head L latch signal
74	H1-B-DATA-2-EV	OUT	Even head L data signal 2(B)
75	H1-A-DATA-0-OD	OUT	Odd head L data signal 0(A)
76	GND	-	GND
77	GND	-	GND
78	GND	-	GND

6.2.7 Power supply

iPF6100 / iPF6200 / iPF6000S



F-6-7
T-6-122

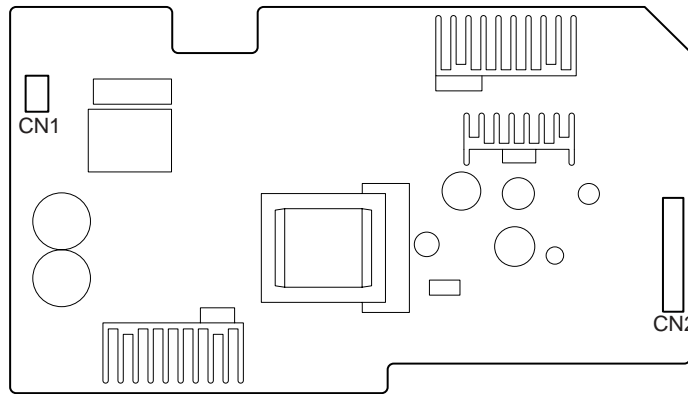
CN1			
Pin Number	Signal name	IN/OUT	Function
1	AC(H)	-	Power supply (AC 120V or AC 230V)
2	AC(H)	-	Power supply (AC 120V or AC 230V)

T-6-123

CN2 (Connect to Main controller PCB)			
Pin Number	Signal name	IN/OUT	Function
1	HD1_VHFBH	IN	VH feedback voltage +
2	HD1_VHFBG	IN	VH feedback voltage -
3	VH	OUT	Power supply (+21.5V)
4	GND	-	GND
5	VH	OUT	Power supply (+21.5V)
6	GND	-	GND
7	RGV20(VCC)	OUT	Power supply (+21.5V)
8	GND	-	GND
9	VM	OUT	Power supply (+26V)
10	GND	-	GND
11	VM	OUT	Power supply (+26V)
12	GND	-	GND
13	VH_ENB	IN	VH power supply ON/OFF signal
14	PW_CONT	IN	Normal/power saving switch signal

6.2.8 Power supply

iPF6300 / iPF6350 / iPF6300S

F-6-8
T-6-124

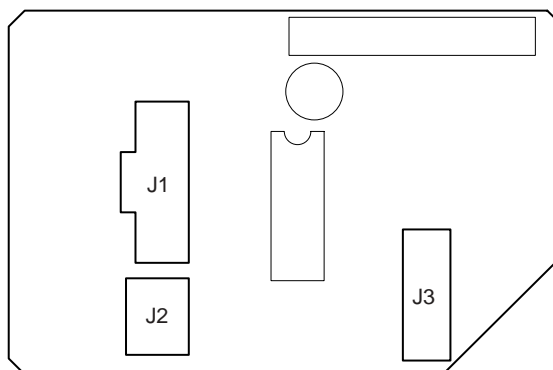
CN1			
Pin Number	Signal name	IN/OUT	Function
1	AC(H)	-	Power supply (AC 120V or AC 230V)
2	AC(H)	-	Power supply (AC 120V or AC 230V)

T-6-125

CN2 (Connect to Main Controller)			
Pin Number	Signal name	IN/OUT	Function
1	HD_VHFBH	IN	VH feedback voltage +
2	HD_VHFBG	IN	VH feedback voltage -
3	VH	OUT	Power supply (+24V)
4	VH_GND	-	GND
5	VH	OUT	Power supply (+24V)
6	VH_GND	-	GND
7	VM	OUT	Power supply (+32V)
8	VM_GND	-	GND
9	VM	OUT	Power supply (+32V)
10	VM_GND	-	GND
11	VH_ENB	IN	VH power supply ON/OFF signal
12	PW_CONT	IN	Normal/power saving switch signal

6.2.9 Roll feed unit PCB

iPF6100 / iPF6200 / iPF6000S / iPF6300 / iPF6350 / iPF6300S

F-6-9
T-6-126

J1 (Connect to Main controller PCB)			
Pin Number	Signal name	IN/OUT	Function
1	GND	-	GND
2	GND	-	GND
3	ROLL_CLK	IN	Roll motor driver clock signal
4	ROLL_DAT	IN	Roll motor driver data signal
5	ROLL_STB	IN	Roll motor driver strobe signal
6	/ROLL_SLEEP	IN	Roll motor driver sleep signal
7	VM	IN	Power supply (+26V)
8	VM	IN	Power supply (+26V)
9	ROLL_UNIT	OUT	Roll unit detection signal
10	ROLL_PAPER_SNS	OUT	Roll media sensor signal
11	ROLL_CAM_SNS	OUT	Roll cam sensor signal
12	GND	-	GND
13	OPT_5V	IN	Power supply (+5V)

T-6-127

J2 (Roll media sensor)			
Pin Number	Signal name	IN/OUT	Function
1	+5V	OUT	Power supply (+5V)
2	GND	-	GND
3	ROLL_PAPER_SNS	IN	Roll media sensor signal

T-6-128

J3 (Roll cam sensor, roll motor)			
Pin Number	Signal name	IN/OUT	Function
1	+5V	OUT	Power supply (+5V)
2	GND	-	GND
3	ROLL_CAM_SNS	IN	Roll cam sensor signal
4	GND	-	GND
5	ROLL_OUTAP	OUT	Roll motor drive signal AP
6	ROLL_OUTAM	OUT	Roll motor power supply AM
7	ROLL_OUTBP	OUT	Roll motor drive signal BP
8	ROLL_OUTBM	OUT	Roll motor power supply BM

6.3 Version Up

6.3.1 Firmware Update Tool

iPF6100

Use of the following tools allows you to update the firmware of the main controller incorporated in the printer.

- imagePROGRAF Firmware Update Tool
- L Printer Service Tool

1. imagePROGRAF Firmware Update Tool

imagePROGRAF Firmware Update Tool is the same as that for user.

Procedure:

- 1) Start imagePROGRAF Firmware Update Tool.
- 2) Place the printer in the online mode.
- 3) Transfer the firmware data to the printer according to the instructions shown on the display.
- 4) The data shown on the LCD on the operation panel changes and the firmware is updated automatically.
- 5) When firmware update is completed, the printer will start again.

File transfer route:

USB, IEEE1394, network

2. L Printer Service Tool

Procedure:

- 1) Start L Printer Service Tool.
- 2) Place the printer in the online mode.
- 3) Specify the firmware file(.jdl) and then transfer it.
- 4) The data shown on the LCD on the operation panel changes and the firmware is updated automatically.
- 5) When firmware update is completed, the printer will start again.

File transfer route:

USB, IEEE1394, network

6.3.2 Firmware Update Tool

iPF6200 / iPF6000S / iPF6300 / iPF6350 / iPF6300S

Use of the following tools allows you to update the firmware of the main controller incorporated in the printer.

- imagePROGRAF Firmware Update Tool
- L Printer Service Tool

1. imagePROGRAF Firmware Update Tool

imagePROGRAF Firmware Update Tool is the same as that for user.

Procedure:

- 1) Start imagePROGRAF Firmware Update Tool.
- 2) Place the printer in the online mode.
- 3) Transfer the firmware data to the printer according to the instructions shown on the display.
- 4) The data shown on the LCD on the operation panel changes and the firmware is updated automatically.
- 5) When firmware update is completed, the printer will start again.

File transfer route:

USB, network

2. L Printer Service Tool

Procedure:

- 1) Start L Printer Service Tool.
- 2) Place the printer in the online mode.
- 3) Specify the firmware file(.jdl) and then transfer it.
- 4) The data shown on the LCD on the operation panel changes and the firmware is updated automatically.
- 5) When firmware update is completed, the printer will start again.

File transfer route:

USB, network

6.4 Service Tools

6.4.1 Tool List

iPF6100 / iPF6200 / iPF6000S / iPF6300 / iPF6350 / iPF6300S

T-6-129

General-purpose tools	Remarks
Long Phillips screwdriver	Inserting and removing screws
Phillips screwdriver	Inserting and removing screws
Flat-head screwdriver	Removing the E-ring
Needle-nose pliers	Inserting and removing the spring parts
Hex key wrench	Inserting and removing hexagonal screws
Flat brush	Applying grease
Lint free paper	Wiping off ink
Rubber gloves	Preventing ink stains

T-6-130

Special-purpose tools	Remarks
Carriage Wire Tool (AY3-4493-000)	Adjusting carriage wire height
Grease MOLYKOTE PG-641 (CK-0562-000)	Applying to specified locations
EU-1 (QY9-0037-000)	Soaks to specified locations

Chapter 7 SERVICE MODE

Contents

7.1 Service Mode	7-1
7.1.1 Service Mode Operation	7-1
7.1.2 Service Mode Operation	7-2
7.1.3 Map of the Service Mode.....	7-3
7.1.4 Map of the Service Mode.....	7-8
7.1.5 Map of the Service Mode.....	7-13
7.1.6 Map of the Service Mode.....	7-18
7.1.7 Map of the Service Mode.....	7-25
7.1.8 Details of Service Mode.....	7-32
7.1.9 Details of Service Mode.....	7-40
7.1.10 Details of Service Mode.....	7-48
7.1.11 Details of Service Mode.....	7-56
7.1.12 Details of Service Mode.....	7-71
7.1.13 Sample Printout.....	7-86
7.1.14 e-Maintenance/imageWARE Remote.....	7-90
7.1.15 Viewing PRINT INF.....	7-100
7.1.16 Viewing PRINT INF.....	7-114
7.2 Special Mode.....	7-128
7.2.1 Special Modes for Servicing	7-128
7.2.2 Special Modes for Servicing	7-128

7.1 Service Mode

7.1.1 Service Mode Operation

iPF6100 / iPF6200 / iPF6000S

a) How to enter the Service mode

Enter the Service mode following the procedure below.

- 1) Turn off the printer.
- 2) Turn on the printer while holding down the [Paper Source] button and [Information] button.
* Keep pressing the above buttons until "Initializing" appears on the display.
- 3) "S" is displayed in the upper right corner of the display showing the version.
- 4) After display of "Online", pressing the [Menu] button displays the SERVICE MODE top menu and the MESSAGE LED flashes.

* The Service mode is added to the options in the Main menu. The Service mode can be entered even in the error status (when an error message is shown on the display) by turning the power off and then using the above key operation.

b) How to exit the Service mode

Turn off the printer.

c) Key operation in the service mode

- Selecting menus and parameters: [◀] or [▶] button
- Going to the next lower-level menu: [▼] button
- Going to the next higher-level menu: [▲] key
- Determining a selected menu or parameter: [OK] button

7.1.2 Service Mode Operation

iPF6300 / iPF6350 / iPF6300S

a) How to enter the Service mode

Enter service mode according to the following procedure:

- 1) Turn off the printer power.
- 2) Turn on the power while pressing the [Load] key and [Navigate] key.
* Keep pressing the above keys until "Initializing" is displayed.
- 3) "S" appears at the top right of the display.
- 4) Press the ◀ key or ▶ key to choose the [Set./Adj. Menu] and press the [OK] key.
"SERVICE MODE" appears in the menu list and the MESSAGE LED flashes.
- 5) Press the ▲ key or ▼ key to choose "SERVICE MODE" and press the [OK] key.
* Service mode is added to the [Set./Adj. Menu]. Service mode can be entered even when an error occurs (an error message is displayed) by turning off the power once and then pressing the above keys.

b) How to exit the Service mode

Turn off the printer.

c) Key operation in the service mode

- Selecting menus and parameters: ◀ or ▶ key
- Going to the next lower-level menu: ▼ key
- Going to the previous higher-level menu: ▲ key
- Determining a selected menu or parameter: [OK] key

7.1.3 Map of the Service Mode

iPF6100

The hierarchy of menus and parameters in the Service Mode is as shown below.

T-7-1

First Level	Second Level	Third Level	Fourth Level	Fifth Level		
DISPLAY	PRINTINF	YES/NO	: Select YES to execute print			
	SYSTEM	S/N				
		TYPE				
		LF TYPE				
		TMP				
		SIZE LF				
		SIZE LF				
		SIZE CR				
		SIZE CR				
	HEAD	S/N R				
		S/N L				
		LOT R				
		LOT L				
	INK	Y				

B						
WARNING	1					

	20					
ERROR	1					

	20					
	INK CHECK	000000 000000				
I/O DISPLAY	I/O DISPLAY 1					
	I/O DISPLAY 2					
ADJUST	PRINT PATTERN	NOZZLE 1	: Press the [OK] button to execute			
		OPTICAL AXIS	: Press the [OK] button to execute			
		LF & HAKUSYA				
		SENSOR CHECK				
	HEAD ADJ.	AUTO HEAD ADJ	ROUGH	: Press the [OK] button to execute		
		MANUAL HEAD ADJ	DETAIL	: Press the [OK] button to execute		
			BASIC	: Press the [OK] button to execute		
		ADJ. SETTING	A	A-1	: Adjustment value entry	

				A-48	: Adjustment value entry	
		F	F-1	: Adjustment value entry		
F-2	: Adjustment value entry					
	SAVE SETTINGS	YES/NO				
	RESET SETTINGS	YES/NO				
	NOZZLE CHK POS.	YES/NO				
	GAP CALIB.	YES/NO				

T-7-2

First Level	Second Level	Third Level	Fourth Level	Fifth Level	
REPLACE	CUTTER	YES/NO			
	L & R PRINTHEADS	YES/NO			
COUNTER	PRINTER	LIFE TTL			
		LIFE ROLL			
		LIFE CUTSHEET			
		LIFE A			

		LIFE F			
		POWER ON			
		W-INK			
		CUTTER			
		WIPE			
		CARRIAGE	PRINT		
			CR COUNT		
			CR DIST.		
	PRINT COUNT				
	PURGE	CLN-A-1			
		CLN-A-2			
		CLN-A-3			
		CLN-A-6			
		CLN-A-7			
		CLN-A-10			
		CLN-A-11			
		CLN-A-15			
		CLN-A-16			
		CLN-A-17			
		CLN-A-TTL			
		CLN-M-1			
		CLN-M-4			
		CLN-M-5			
		CLN-M-6			
		CLN-M-TTL			
	CLEAR	CLR-INK CONSUME			
		CLR-CUTTER EXC.			
		CLR-MTC EXC.			
		CLR-HEAD R EXC.			
		CLR-HEAD L EXC.			
		CLR-UNIT A EXC.			
		CLR-UNIT B EXC.			
		CLR-UNIT D EXC.			
		CLR-UNIT F EXC.			
		CLR-UNIT H EXC.			
		CLR-UNIT L EXC.			
		CLR-UNIT P EXC.			
		CLR-UNIT R EXC.			
CLR-UNIT V EXC.					
CLR-UNIT X EXC.					
CLR-FACTORY CNT.					

T-7-3

First Level	Second Level	Third Level	Fourth Level	Fifth Level
COUNTER	EXCHANGE	CUTTER EXC.		
		MTC EXC.		
		HEAD R EXC.		
		HEAD L EXC.		
		BOARD EXC.(M/B)		
		UNIT A EXC.		
		UNIT B EXC.		
		UNIT D EXC.		
		UNIT F EXC.		
		UNIT H EXC.		
		UNIT L EXC.		
		UNIT P EXC.		
		UNIT R EXC.		
		UNIT V EXC.		
		UNIT X EXC.		
	DETAIL-CNT	MOVE PRINTER		
		N-INK CHK(Y)		

		N-INK CHK(B)		
		MEDIACONFIG-CNT		
	INK-USE1	INK-USE1(Y)		

		INK-USE1(B)		
		INK-USE1(TTL)		
		N-INK-USE1(Y)		

		N-INK-USE1(B)		
		N-INK-USE1(TTL)		
	INK-USE2	INK-USE2(Y)		

		INK-USE2(B)		
		INK-USE2(TTL)		
		N-INK-USE2(Y)		

		N-INK-USE2(B)		
	N-INK-USE2(TTL)			
	INK-EXC	INK-EXC(Y)		

		INK-EXC(B)		
		INK-EXC(TTL)		
		N-INK-EXC(Y)		

		N-INK-EXC(B)		
	N-INK-EXC(TTL)			

First Level	Second Level	Third Level	Fourth Level	Fifth Level	
COUNTER	MEDIA 1	NAME			
		TTL			
		TTL			
		ROLL			
		ROLL			
		CUTSHEET			
		CUTSHEET			

	MEDIA 7	NAME			
		TTL			
		TTL			
		ROLL			
		ROLL			
		CUTSHEET			
		CUTSHEET			
	MEDIA OTHER	NAME			
		TTL			
		TTL			
		ROLL			
		ROLL			
		CUTSHEET			
		CUTSHEET			
	MEDIASIZE1 ROLL	P-SQ 24-36			
		P-SQ 24-36			
		P-SQ 17-24			
		P-SQ 17-24			
		P-SQ -17			
		P-SQ -17			
		P-CNT 24-36			
		P-CNT 17-24			
		P-CNT -17			
		P-CNT -17			
	MEDIASIZE2 ROLL	D-SQ 24-36			
		D-SQ 24-36			
		D-SQ 17-24			
		D-SQ 17-24			
		D-SQ -17			
		D-SQ -17			
		D-CNT 24-36			
		D-CNT 17-24			
		D-CNT -17			
		D-CNT -17			
	MEDIASIZE1 CUT	P-SQ 24-36			
		P-SQ 24-36			
		P-SQ 17-24			
		P-SQ 17-24			
		P-SQ -17			
P-SQ -17					
P-CNT 24-36					
P-CNT 17-24					
P-CNT -17					
P-CNT -17					

T-7-5

First Level	Second Level	Third Level	Fourth Level	Fifth Level	
COUNTER	MEDIASIZE1 CUT	D-SQ 24-36			
		D-SQ 24-36			
		D-SQ 17-24			
		D-SQ 17-24			
		D-SQ -17			
		D-SQ -17			
		D-CNT 24-36			
		D-CNT 17-24			
		D-CNT -17			
		HEAD DOT CNT. 1			Y

		B			
		TTL			
	HEAD DOT CNT. 2	Y			

		B			
		TTL			
	PARTS CNT.	COUNTER A		OK/W1/W2/E	
				PARTS A1	1:
					2:
				3:	
		4:			

COUNTER X			OK/W1/W2/E		
			PARTS X1	1:	
			2:		
			3:		
	4:				
SETTING	Pth	ON/OFF			
	RTC	DATE	yyyy/mm/dd		
		TIME	hh:mm		
	PV AUTO JUDGE	ON/OFF			
INITIALIZE	WARNIG	: Press the [OK] button to clear			
	ERROR	: Press the [OK] button to clear			
	ADJUST	: Press the [OK] button to clear			
	W-INK	: Press the [OK] button to clear			
	PURGE	: Press the [OK] button to clear			
	INK-USE CNT	: Press the [OK] button to clear			
	CUTTER-CHG CNT	: Press the [OK] button to clear			
	W-INK-CHG CNT	: Press the [OK] button to clear			
	HEAD-CHG R CNT	: Press the [OK] button to clear			
	HEAD-CHG L CNT	: Press the [OK] button to clear			
	PARTS-CHG CNT	PARTS A1		: Press the [OK] button to clear	

		PARTS X1		: Press the [OK] button to clear	
	PARTS COUNTER	PARTS A1		: Press the [OK] button to clear	

PARTS X1			: Press the [OK] button to clear		

7.1.4 Map of the Service Mode

iPF6200

The hierarchy of menus and parameters in the Service Mode is as shown below.

T-7-6

First Level	Second Level	Third Level	Fourth Level	Fifth Level		
DISPLAY	PRINTINF	YES/NO	: Select YES to execute print			
		SYSTEM	S/N			
	TYPE					
	LF TYPE					
	TMP					
	SIZE LF					
	SIZE LF					
	SIZE CR					
	SIZE CR					
	HEAD	S/N R				
		S/N L				
		LOT R				
		LOT L				
	INK	Y				

		B				
	WARNING	1				

		20				
ERROR	1					

	20					
	INK CHECK	000000 000000				
I/O DISPLAY	I/O DISPLAY 1					
	I/O DISPLAY 2					
ADJUST	PRINT PATTERN	NOZZLE 1	: Press the [OK] button to execute			
		OPTICAL AXIS	: Press the [OK] button to execute			
		LF & HAKUSYA				
		SENSOR CHECK				
	HEAD ADJ.	AUTO HEAD ADJ	ROUGH	: Press the [OK] button to execute		
		MANUAL HEAD ADJ	DETAIL	: Press the [OK] button to execute		
			BASIC	: Press the [OK] button to execute		
		ADJ. SETTING	A	A-1	: Adjustment value entry	

			F	A-48	: Adjustment value entry	

		F-1	: Adjustment value entry			
	F-2	: Adjustment value entry				
SAVE SETTINGS	YES/NO					
RESET SETTINGS	YES/NO					
NOZZLE CHK POS.	YES/NO					
GAP CALIB.	YES/NO					

T-7-7

First Level	Second Level	Third Level	Fourth Level	Fifth Level	
REPLACE	CUTTER	YES/NO			
	L & R PRINTHEADS	YES/NO			
COUNTER	PRINTER	LIFE TTL			
		LIFE ROLL			
		LIFE CUTSHEET			
		LIFE A			

		LIFE F			
		POWER ON			
		W-INK			
		CUTTER			
		WIPE			
		CARRIAGE	PRINT		
			CR COUNT		
			CR DIST.		
	PRINT COUNT				
	PURGE	CLN-A-1			
		CLN-A-2			
		CLN-A-3			
		CLN-A-6			
		CLN-A-7			
		CLN-A-10			
		CLN-A-11			
		CLN-A-15			
		CLN-A-16			
		CLN-A-17			
		CLN-A-TTL			
		CLN-M-1			
		CLN-M-4			
		CLN-M-5			
		CLN-M-6			
		CLN-M-TTL			
	CLEAR	CLR-INK CONSUME			
		CLR-CUTTER EXC.			
		CLR-MTC EXC.			
		CLR-HEAD R EXC.			
		CLR-HEAD L EXC.			
		CLR-UNIT A EXC.			
		CLR-UNIT B EXC.			
		CLR-UNIT D EXC.		CLR D-1 EXC.	

				CLR D-5 EXC.	
		CLR-UNIT F EXC.			
		CLR-UNIT H EXC.			
CLR-UNIT L EXC.					
CLR-UNIT P EXC.					
CLR-UNIT R EXC.					
CLR-UNIT V EXC.					
CLR-UNIT X EXC.					
CLR-FACTORY CNT.					

First Level	Second Level	Third Level	Fourth Level	Fifth Level	
COUNTER	EXCHANGE	CUTTER EXC.			
		MTC EXC.			
		HEAD R EXC.			
		HEAD L EXC.			
		BOARD EXC.(M/B)			
		UNIT A EXC.			
		UNIT B EXC.			
		UNIT D EXC.			D-1 EXC.

					D-5 EXC.
					UNIT F EXC.
					UNIT H EXC.
					UNIT L EXC.
					UNIT P EXC.
					UNIT R EXC.
					UNIT V EXC.
					UNIT X EXC.
					DETAIL-CNT
			N-INK CHK(Y)		

			N-INK CHK(B)		
			MEDIACONFIG-CNT		
		INK-USE1	INK-USE1(Y)		

			INK-USE1(B)		
			INK-USE1(TTL)		
			N-INK-USE1(Y)		

			N-INK-USE1(B)		
			N-INK-USE1(TTL)		
		INK-USE2	INK-USE2(Y)		

			INK-USE2(B)		
			INK-USE2(TTL)		
			N-INK-USE2(Y)		

			N-INK-USE2(B)		
			N-INK-USE2(TTL)		
		INK-EXC	INK-EXC(Y)		

			INK-EXC(B)		
			INK-EXC(TTL)		
		N-INK-EXC(Y)			

		N-INK-EXC(B)			
		N-INK-EXC(TTL)			

T-7-9

First Level	Second Level	Third Level	Fourth Level	Fifth Level	
COUNTER	MEDIA 1	NAME			
		TTL			
		TTL			
		ROLL			
		ROLL			
		CUTSHEET			
		CUTSHEET			

	MEDIA 7	NAME			
		TTL			
		TTL			
		ROLL			
		ROLL			
		CUTSHEET			
		CUTSHEET			
	MEDIA OTHER	NAME			
		TTL			
		TTL			
		ROLL			
		ROLL			
		CUTSHEET			
		CUTSHEET			
	MEDIASIZE1 ROLL	P-SQ 24-36			
		P-SQ 24-36			
		P-SQ 17-24			
		P-SQ 17-24			
		P-SQ -17			
		P-SQ -17			
		P-CNT 24-36			
		P-CNT 17-24			
		P-CNT -17			
	MEDIASIZE2 ROLL	D-SQ 24-36			
		D-SQ 24-36			
		D-SQ 17-24			
		D-SQ 17-24			
		D-SQ -17			
		D-SQ -17			
		D-CNT 24-36			
		D-CNT 17-24			
		D-CNT -17			
	MEDIASIZE1 CUT	P-SQ 24-36			
		P-SQ 24-36			
		P-SQ 17-24			
		P-SQ 17-24			
P-SQ -17					
P-SQ -17					
P-CNT 24-36					
P-CNT 17-24					
P-CNT -17					

First Level	Second Level	Third Level	Fourth Level	Fifth Level			
COUNTER	MEDIASIZE1 CUT	D-SQ 24-36					
		D-SQ 24-36					
		D-SQ 17-24					
		D-SQ 17-24					
		D-SQ -17					
		D-SQ -17					
		D-CNT 24-36					
		D-CNT 17-24					
		D-CNT -17					
		HEAD DOT CNT. 1			Y		

		B					
		TTL					
	HEAD DOT CNT. 2	Y					

		B					
		TTL					
	PARTS CNT.	COUNTER A		OK/W1/W2/E			
				PARTS A1	1:00		
					2:00		
				3:00			
		4:00					

COUNTER X			OK/W1/W2/E				
			PARTS X1	1:00			
			2:00				
			3:00				
	4:00						
SETTING	Pth	ON/OFF					
	RTC	DATE	yyyy/mm/dd				
		TIME	hh:mm				
	PV AUTO JUDGE	ON/OFF					
INITIALIZE	WARNIG	: Press the [OK] button to clear					
	ERROR	: Press the [OK] button to clear					
	ADJUST	: Press the [OK] button to clear					
	W-INK	: Press the [OK] button to clear					
	PURGE	: Press the [OK] button to clear					
	INK-USE CNT	: Press the [OK] button to clear					
	CUTTER-CHG CNT	: Press the [OK] button to clear					
	W-INK-CHG CNT	: Press the [OK] button to clear					
	HEAD-CHG R CNT	: Press the [OK] button to clear					
	HEAD-CHG L CNT	: Press the [OK] button to clear					
	HDD BOX PASS	ALL FOLDERS	: Press the [OK] button to clear				
		FOLDER 1	: Press the [OK] button to clear				

		FOLDER 29	: Press the [OK] button to clear				
	PARTS-CHG CNT	PARTS A1	: Press the [OK] button to clear				

		PARTS X1	: Press the [OK] button to clear				
	PARTS COUNTER	PARTS A1	: Press the [OK] button to clear				

PARTS X1		: Press the [OK] button to clear					

7.1.5 Map of the Service Mode

iPF6000S

The hierarchy of menus and parameters in the Service Mode is as shown below.

T-7-11

First Level	Second Level	Third Level	Fourth Level	Fifth Level		
DISPLAY	PRINTINF	YES/NO	: Select YES to execute print			
	SYSTEM	S/N				
		TYPE				
		LF TYPE				
		TMP				
		SIZE LF				
		SIZE LF				
		SIZE CR				
		SIZE CR				
	HEAD	S/N R				
		S/N L				
		LOT R				
		LOT L				
	INK	PC				

M						
WARNING	1					

	20					
ERROR	1					

	20					
	INK CHECK	000 00000				
I/O DISPLAY	I/O DISPLAY 1					
	I/O DISPLAY 2					
ADJUST	PRINT PATTERN	NOZZLE 1	: Press the [OK] button to execute			
		OPTICAL AXIS	: Press the [OK] button to execute			
		LF & HAKUSYA				
		SENSOR CHECK				
	HEAD ADJ.	AUTO HEAD ADJ	ROUGH	: Press the [OK] button to execute		
		MANUAL HEAD ADJ	DETAIL	: Press the [OK] button to execute		
			BASIC	: Press the [OK] button to execute		
		ADJ. SETTING	A	A-1	: Adjustment value entry	

				A-48	: Adjustment value entry	
		F	F-1	: Adjustment value entry		
F-2	: Adjustment value entry					
	SAVE SETTINGS	YES/NO				
	RESET SETTINGS	YES/NO				
	NOZZLE CHK POS.	YES/NO				
	GAP CALIB.	YES/NO				

First Level	Second Level	Third Level	Fourth Level	Fifth Level	
REPLACE	CUTTER	YES/NO			
	L & R PRINTHEADS	YES/NO			
COUNTER	PRINTER	LIFE TTL			
		LIFE ROLL			
		LIFE CUTSHEET			
		LIFE A			

		LIFE F			
		POWER ON			
		W-INK			
		CUTTER			
		WIPE			
		CARRIAGE	PRINT		
			CR COUNT		
			CR DIST.		
	PRINT COUNT				
	PURGE	CLN-A-1			
		CLN-A-2			
		CLN-A-3			
		CLN-A-6			
		CLN-A-7			
		CLN-A-10			
		CLN-A-11			
		CLN-A-15			
		CLN-A-16			
		CLN-A-17			
		CLN-A-TTL			
		CLN-M-1			
		CLN-M-4			
		CLN-M-5			
		CLN-M-6			
		CLN-M-TTL			
		CLEAR	CLR-INK CONSUME		
	CLR-CUTTER EXC.				
	CLR-MTC EXC.				
	CLR-HEAD R EXC.				
	CLR-HEAD L EXC.				
	CLR-UNIT A EXC.				
	CLR-UNIT B EXC.				
	CLR-UNIT D EXC.		CLR D-1 EXC.		

			CLR D-5 EXC.		
	CLR-UNIT F EXC.				
	CLR-UNIT H EXC.				
	CLR-UNIT L EXC.				
CLR-UNIT P EXC.					
CLR-UNIT V EXC.					
CLR-UNIT X EXC.					
CLR-FACTORY CNT.					

T-7-13

First Level	Second Level	Third Level	Fourth Level	Fifth Level		
COUNTER	EXCHANGE	CUTTER EXC.				
		MTC EXC.				
		HEAD R EXC.				
		HEAD L EXC.				
		BOARD EXC.(M/B)				
		UNIT A EXC.				
		UNIT B EXC.				
		UNIT D EXC.		D-1 EXC.		

				D-5 EXC.		
				UNIT F EXC.		
				UNIT H EXC.		
				UNIT L EXC.		
				UNIT P EXC.		
				UNIT V EXC.		
				UNIT X EXC.		
			DETAIL-CNT	MOVE PRINTER		
				N-INK CHK(PC)		

		N-INK CHK(M)				
		MEDIACONFIG-CNT				
		INK-USE1	INK-USE1(PC)			

			INK-USE1(M)			
			INK-USE1(TTL)			
			N-INK-USE1(PC)			

			N-INK-USE1(M)			
		N-INK-USE1(TTL)				
		INK-USE2	INK-USE2(PC)			

			INK-USE2(M)			
			INK-USE2(TTL)			
			N-INK-USE2(PC)			

			N-INK-USE2(M)			
		N-INK-USE2(TTL)				
		INK-EXC	INK-EXC(PC)			

			INK-EXC(M)			
			INK-EXC(TTL)			
			N-INK-EXC(PC)			

			N-INK-EXC(M)			
		N-INK-EXC(TTL)				

First Level	Second Level	Third Level	Fourth Level	Fifth Level	
COUNTER	MEDIA 1	NAME			
		TTL			
		TTL			
		ROLL			
		ROLL			
		CUTSHEET			
		CUTSHEET			

	MEDIA 7	NAME			
		TTL			
		TTL			
		ROLL			
		ROLL			
		CUTSHEET			
		CUTSHEET			
	MEDIA OTHER	NAME			
		TTL			
		TTL			
		ROLL			
		ROLL			
		CUTSHEET			
		CUTSHEET			
	MEDIASIZE1 ROLL	P-SQ 24-36			
		P-SQ 24-36			
		P-SQ 17-24			
		P-SQ 17-24			
		P-SQ -17			
		P-SQ -17			
		P-CNT 24-36			
		P-CNT 17-24			
		P-CNT -17			
		P-CNT -17			
	MEDIASIZE2 ROLL	D-SQ 24-36			
		D-SQ 24-36			
		D-SQ 17-24			
		D-SQ 17-24			
		D-SQ -17			
		D-SQ -17			
		D-CNT 24-36			
		D-CNT 17-24			
		D-CNT -17			
		D-CNT -17			
	MEDIASIZE1 CUT	P-SQ 24-36			
		P-SQ 24-36			
		P-SQ 17-24			
		P-SQ 17-24			
		P-SQ -17			
P-SQ -17					
P-CNT 24-36					
P-CNT 17-24					
P-CNT -17					
P-CNT -17					

T-7-15

First Level	Second Level	Third Level	Fourth Level	Fifth Level	
COUNTER	MEDIASIZE1 CUT	D-SQ 24-36			
		D-SQ 24-36			
		D-SQ 17-24			
		D-SQ 17-24			
		D-SQ -17			
		D-SQ -17			
		D-CNT 24-36			
		D-CNT 17-24			
		D-CNT -17			
		HEAD DOT CNT. 1			PC

	M				
	TTL				
	HEAD DOT CNT. 2	PC			

		M			
		TTL			
	PARTS CNT.	COUNTER A		OK/W1/W2/E	
				PARTS A1	1:00
					2:00
				3:00	
---			4:00		
COUNTER X				OK/W1/W2/E	
				PARTS X1	1:00
					2:00
				3:00	
		4:00			
SETTING	Pth	ON/OFF			
	RTC	DATE	yyyy/mm/dd		
		TIME	hh:mm		
	PV AUTO JUDGE	ON/OFF			
INITIALIZE	WARNIG	: Press the [OK] button to clear			
	ERROR	: Press the [OK] button to clear			
	ADJUST	: Press the [OK] button to clear			
	W-INK	: Press the [OK] button to clear			
	PURGE	: Press the [OK] button to clear			
	INK-USE CNT	: Press the [OK] button to clear			
	CUTTER-CHG CNT	: Press the [OK] button to clear			
	W-INK-CHG CNT	: Press the [OK] button to clear			
	HEAD-CHG R CNT	: Press the [OK] button to clear			
	HEAD-CHG L CNT	: Press the [OK] button to clear			
	HDD BOX PASS	ALL FOLDERS	: Press the [OK] button to clear		
		FOLDER 1	: Press the [OK] button to clear		

		FOLDER 29	: Press the [OK] button to clear		
	PARTS-CHG CNT	PARTS A1	: Press the [OK] button to clear		

		PARTS X1	: Press the [OK] button to clear		
	PARTS COUNTER	PARTS A1	: Press the [OK] button to clear		

PARTS X1		: Press the [OK] button to clear			

7.1.6 Map of the Service Mode

iPF6300 / iPF6350

The hierarchy of menus and parameters in the Service Mode is as shown below.

T-7-16

First Level	Second Level	Third Level	Fourth Level	Fifth Level	Sixth Level		
DISPLAY	PRINTINF	YES/NO	: Select YES to print				
	SYSTEM	S/N					
		TYPE					
		LF TYPE					
		TMP					
		RH					
		SIZE LF					
		SIZE LF					
		SIZE CR					
		SIZE CR					
		AFTER INST					
		HEAD	S/N L				
			S/N R				
			LOT L				
	LOT R						
	INK	PC					

		BK					
	WARNING	01					

		20					
	ERROR	01					

		20					
	JAM	01		1:			

				4:			
05			1:				

			4:				
INK CHECK	000000 000000						
I/O DISPLAY	I/O DISPLAY 1						
	I/O DISPLAY 2						
ADJUST	PRINT PATTERN	NOZZLE 1	: Press the [OK] button to execute				
		OPTICAL AXIS	: Press the [OK] button to execute				
	HEAD ADJ.	MANUAL HEAD ADJ	EXTENSION		: Press the [OK] button to execute		
			DETAIL		: Press the [OK] button to execute		
			BASIC		: Press the [OK] button to execute		
		ADJ. SETTING	A	A-1		: Adjustment value entry	

				A-48		: Adjustment value entry	
			F	F-1		: Adjustment value entry	
				F-2		: Adjustment value entry	
	SAVE SETTINGS	YES/NO					
	RESET SETTINGS	YES/NO					
	NOZZLE CHECK POS.	YES/NO					
	GAP CALIB.	YES/NO					
	CHANGE LF TYPE	0/1					
CR REG	EXECUTE	YES/NO					
	RESET	YES/NO					
CR MOTOR COG	YES/NO						
SPUR CLEANING	YES/NO						

T-7-17

First Level	Second Level	Third Level	Fourth Level	Fifth Level	
FUNCTION	CR UNLOCK	YES/NO			
	CR LOCK	YES/NO			
	PG CHECK	YES/NO			
	CR AUTO SCAN	YES/NO			
	CR SCAN COUNT	1		: Press the [OK] button to set	

		30		: Press the [OK] button to set	
	CR SCAN SIZE	1		: Press the [OK] button to set	

		5		: Press the [OK] button to set	
	CR SCAN SPEED	1		: Press the [OK] button to set	

		5		: Press the [OK] button to set	
	OPT SENS OUTPUT	YES		OUTPUT0	

				OUTPUT5	
		NO			
NOZZLE CHECK	YES/NO				
NOZZLE INF	C				

	B				
MEMORY CHK	DDR		YES/NO		
	EEP		YES/NO		
HEAD CNT CHK	YES/NO				
REPLACE	CUTTER	YES/NO			
	L & R PRINTHEADS	YES/NO			

First Level	Second Level	Third Level	Fourth Level	Fifth Level	
COUNTER	PRINTER	LIFE TTL			
		LIFE ROLL			
		LIFE CUTSHEET			
		LIFE A			

		LIFE F			
		POWER ON			
		W-INK			
		CUTTER			
		WIPE			
		SLEEP ON			
		CARRIAGE	PRINT		
			DRIVE		
	CR COUNT				
	CR DIST.				
	PRINT COUNT				
	PURGE	CLN-A-1			
		CLN-A-2			
		CLN-A-3			
		CLN-A-6			
		CLN-A-7			
		CLN-A-10			
		CLN-A-11			
		CLN-A-15			
		CLN-A-16			
		CLN-A-17			
		CLN-A-TTL			
		CLN-M-1			
		CLN-M-4			
		CLN-M-5			
		CLN-M-6			
		CLN-M-TTL			
		CLEAR	CLR-INK CONSUME		
	CLR-MTC EXC.				
	CLR-HEAD L EXC.				
	CLR-HEAD R EXC.				
	CLR Wia-1 EXC.				
	CLR Wib-1 EXC.				
	CLR CR-1 EXC.				
	CLR CR-2 EXC.				
	CLR CR-3 EXC.				
	CLR CR-4 EXC.				
	CLR CR-5 EXC.				
	CLR SP-1 EXC.				
	CLR PG-1 EXC.				
	CLR HMa-1 EXC.				
	CLR PL-1 EXC.				
	CLR PS-1 EXC.				
	CLR Mi-1 EXC.				
	CLR MS-1 EXC.				
CLR CT-1 EXC.					
CLR-FACTORY CNT.					

T-7-19

First Level	Second Level	Third Level	Fourth Level	Fifth Level
COUNTER	EXCHANGE	MTC EXC.		
		HEAD L EXC.		
		HEAD R EXC.		
		BOARD EXC.(M/B)		
		Wia-1 EXC.		
		Wib-1 EXC.		
		CR-1 EXC.		
		CR-2 EXC.		
		CR-3 EXC.		
		CR-4 EXC.		
		CR-5 EXC.		
		SP-1 EXC.		
		PG-1 EXC.		
		HMa-1 EXC.		
		PL-1 EXC.		
		PS-1 EXC.		
		Mi-1 EXC.		
		MS-1 EXC.		
		CT-1 EXC.		
		DETAIL-CNT	MOVE PRINTER	
	N-INK CHK(PC)			

	N-INK CHK(BK)			
	MEDIACONFIG-CNT			
	INK-USE1	INK-USE1(PC)		

		INK-USE1(BK)		
		INK-USE1(TTL)		
		N-INK-USE1(PC)		

		N-INK-USE1(BK)		
		N-INK-USE1(TTL)		
	INK-USE2	INK-USE2(PC)		

		INK-USE2(BK)		
		INK-USE2(TTL)		
		N-INK-USE2(PC)		

		N-INK-USE2(BK)		
	N-INK-USE2(TTL)			
	INK-EXC	INK-EXC(PC)		

		INK-EXC(BK)		
		INK-EXC(TTL)		
		N-INK-EXC(PC)		

		N-INK-EXC(BK)		
	N-INK-EXC(TTL)			

First Level	Second Level	Third Level	Fourth Level	Fifth Level	
COUNTER	MEDIA 1	NAME			
		TTL			
		TTL			
		ROLL			
		ROLL			
		CUTSHEET			
		CUTSHEET			

	MEDIA 7	NAME			
		TTL			
		TTL			
		ROLL			
		ROLL			
		CUTSHEET			
		CUTSHEET			
		MEDIA OTHER	NAME		
	TTL				
	TTL				
	ROLL				
	ROLL				
	CUTSHEET				
	CUTSHEET				
	MEDIASIZE1 ROLL		P-SQ 24-36		
		P-SQ 24-36			
		P-SQ 17-24			
		P-SQ 17-24			
		P-SQ -17			
		P-SQ -17			
		P-CNT 24-36			
		P-CNT 17-24			
		P-CNT -17			
		MEDIASIZE2 ROLL	D-SQ 24-36		
			D-SQ 24-36		
			D-SQ 17-24		
			D-SQ 17-24		
	D-SQ -17				
	D-SQ -17				
	D-CNT 24-36				
	D-CNT 17-24				
	D-CNT -17				

T-7-21

First Level	Second Level	Third Level	Fourth Level	Fifth Level			
COUNTER	MEDIASIZE1 CUT	P-SQ 24-36					
		P-SQ 24-36					
		P-SQ 17-24					
		P-SQ 17-24					
		P-SQ -17					
		P-SQ -17					
		P-CNT 24-36					
		P-CNT 17-24					
		P-CNT -17					
		MEDIASIZE2 CUT			D-SQ 24-36		
	D-SQ 24-36						
	D-SQ 17-24						
	D-SQ 17-24						
	D-SQ -17						
	D-SQ -17						
	D-CNT 24-36						
	D-CNT 17-24						
	D-CNT -17						
	HEAD DOT CNT. 1				C		

		B					
		TTL					
	HEAD DOT CNT. 2	C					

		B					
		TTL					
	PARTS CNT.	COUNTER Wia-1				OK/W1/W2/E	
						1:00	
						2:00	
						3:00	
						4:00	

		COUNTER CT-1					OK/W1/W2/E
							1:00
							2:00
							3:00
							4:00

First Level	Second Level	Third Level	Fourth Level	Fifth Level	Sixth Level	
SETTING	Pth	ON/OFF				
	RTC	DATE	yyyy/mm/dd			
		TIME	hh:mm			
	PV AUTO JUDGE	ON/OFF				
	NETWORK	CERTIFICATE	CA-CERTIFICATE	VALIDITY	yyyy/mm/dd	
	E-RDS	E-RDS SWITCH	ON/OFF			
		UGW-ADDRESS	http://XXX			
		UGW-PORT	XXXXX			
		COM-TEST	YES			
		COM-LOG				
COM-LOG LIST						
HEAD DOT INF	ON/OFF					
INITIALIZE	WARNIG	: Press the [OK] button to clear				
	ERROR	: Press the [OK] button to clear				
	JAM	: Press the [OK] button to clear				
	ADJUST	: Press the [OK] button to clear				
	W-INK	: Press the [OK] button to clear				
	CARRIAGE	: Press the [OK] button to clear				
	PURGE	: Press the [OK] button to clear				
	INK-USE CNT	: Press the [OK] button to clear				
	W-INK-CHG CNT	: Press the [OK] button to clear				
	HEAD-CHG L CNT	: Press the [OK] button to clear				
	HEAD-CHG R CNT	: Press the [OK] button to clear				
	HDD BOX PASS.	ALL FOLDERS	: Press the [OK] button to clear			
		FOLDER 1	: Press the [OK] button to clear			

	FOLDER 29	: Press the [OK] button to clear				
	PARTS-CHG CNT	PARTS Wia-1	: Press the [OK] button to clear			

	PARTS CT-1	: Press the [OK] button to clear				
PARTS COUNTER	PARTS Wia-1	: Press the [OK] button to clear				

PARTS CT-1	: Press the [OK] button to clear					
USER SETTEING	YES/NO					
CA-KEY	YES/NO					
ERDS-DAT	YES/NO					

7.1.7 Map of the Service Mode

iPF6300S

The hierarchy of menus and parameters in the Service Mode is as shown below.

T-7-23

First Level	Second Level	Third Level	Fourth Level	Fifth Level	Sixth Level	
DISPLAY	PRINTINF	YES/NO	: Select YES to print			
	SYSTEM	S/N				
		TYPE				
		LF TYPE				
		TMP				
		RH				
		SIZE LF				
		SIZE LF				
		SIZE CR				
		SIZE CR				
		AFTER INST				
		HEAD	S/N L			
			S/N R			
			LOT L			
	LOT R					
	INK	PC				

		BK				
	WARNING	01				

		20				
	ERROR	01				

		20				
	JAM	01		1:		

				4:		
05			1:			

			4:			
INK CHECK	0 0 0 0 0 0 0					
I/O DISPLAY	I/O DISPLAY 1					
	I/O DISPLAY 2					
ADJUST	PRINT PATTERN	NOZZLE 1	: Press the [OK] button to execute			
		OPTICAL AXIS	: Press the [OK] button to execute			
	HEAD ADJ.	MANUAL HEAD ADJ	EXTENSION	: Press the [OK] button to execute		
			DETAIL	: Press the [OK] button to execute		
			BASIC	: Press the [OK] button to execute		
		ADJ. SETTING	A	A-1	: Adjustment value entry	

				A-96	: Adjustment value entry	
			F	F-1	: Adjustment value entry	
	F-2	: Adjustment value entry				
	SAVE SETTINGS	YES/NO				
	RESET SETTINGS	YES/NO				
	NOZZLE CHECK POS.	YES/NO				
	GAP CALIB.	YES/NO				
CHANGE LF TYPE	0/1					
CR MOTOR COG	YES/NO					
SPUR CLEANING	YES/NO					

First Level	Second Level	Third Level	Fourth Level	Fifth Level	
FUNCTION	CR UNLOCK	YES/NO			
	CR LOCK	YES/NO			
	PG CHECK	YES/NO			
	CR AUTO SCAN	YES/NO			
	CR SCAN COUNT	1		: Press the [OK] button to set	

		30		: Press the [OK] button to set	
	CR SCAN SIZE	1		: Press the [OK] button to set	

		5		: Press the [OK] button to set	
	CR SCAN SPEED	1		: Press the [OK] button to set	

		5		: Press the [OK] button to set	
	OPT SENS OUTPUT	YES		OUTPUT0	

				OUTPUT5	
		NO			
	NOZZLE CHK	YES/NO			
	NOZZLE INF	PC1			

BK					
MEMORY CHK	DDR		YES/NO		
	EEP		YES/NO		
HEAD CNT CHK	YES/NO				
REPLACE	CUTTER	YES/NO			
	L & R PRINTHEADS	YES/NO			

T-7-25

First Level	Second Level	Third Level	Fourth Level	Fifth Level		
COUNTER	PRINTER	LIFE TTL				
		LIFE ROLL				
		LIFE CUTSHEET				
		LIFE A				

		LIFE F				
		POWER ON				
		W-INK				
		CUTTER				
		WIPE				
		SLEEP ON				
			CARRIAGE	PRINT		
				DRIVE		
		CR COUNT				
		CR DIST.				
		PRINT COUNT				
		PURGE	CLN-A-1			
			CLN-A-2			
			CLN-A-3			
			CLN-A-6			
			CLN-A-7			
			CLN-A-10			
			CLN-A-11			
			CLN-A-15			
			CLN-A-16			
			CLN-A-17			
			CLN-A-TTL			
			CLN-M-1			
			CLN-M-4			
			CLN-M-5			
		CLN-M-6				
		CLN-M-TTL				
		CLEAR	CLR-INK CONSUME			
			CLR-MTC EXC.			
			CLR-HEAD L EXC.			
			CLR-HEAD R EXC.			
			CLR Wia-1 EXC.			
			CLR Wib-1 EXC.			
			CLR CR-1 EXC.			
			CLR CR-2 EXC.			
			CLR CR-3 EXC.			
			CLR CR-4 EXC.			
			CLR CR-5 EXC.			
			CLR SP-1 EXC.			
			CLR PG-1 EXC.			
			CLR HMa-1 EXC.			
			CLR PL-1 EXC.			
	CLR PS-1 EXC.					
	CLR Mi-1 EXC.					
	CLR MS-1 EXC.					
	CLR CT-1 EXC.					
	CLR-FACTORY CNT.					

First Level	Second Level	Third Level	Fourth Level	Fifth Level
COUNTER	EXCHANGE	MTC EXC.		
		HEAD L EXC.		
		HEAD R EXC.		
		BOARD EXC.(M/B)		
		Wia-1 EXC.		
		Wib-1 EXC.		
		CR-1 EXC.		
		CR-2 EXC.		
		CR-3 EXC.		
		CR-4 EXC.		
		CR-5 EXC.		
		SP-1 EXC.		
		PG-1 EXC.		
		HMa-1 EXC.		
		PL-1 EXC.		
		PS-1 EXC.		
		Mi-1 EXC.		
		MS-1 EXC.		
		CT-1 EXC.		
		DETAIL-CNT	MOVE PRINTER	
	N-INK CHK(PC)			

	N-INK CHK(BK)			
	MEDIACONFIG-CNT			
	INK-USE1	INK-USE1(PC)		

		INK-USE1(BK)		
		INK-USE1(TTL)		
		N-INK-USE1(PC)		

		N-INK-USE1(BK)		
		N-INK-USE1(TTL)		
	INK-USE2	INK-USE2(PC)		

		INK-USE2(BK)		
		INK-USE2(TTL)		
		N-INK-USE2(PC)		

	N-INK-USE2(BK)			
	N-INK-USE2(TTL)			
	INK-EXC	INK-EXC(PC)		

		INK-EXC(BK)		
		INK-EXC(TTL)		
		N-INK-EXC(PC)		

	N-INK-EXC(BK)			
	N-INK-EXC(TTL)			

T-7-27

First Level	Second Level	Third Level	Fourth Level	Fifth Level	
COUNTER	MEDIA 1	NAME			
		TTL			
		TTL			
		ROLL			
		ROLL			
		CUTSHEET			

		MEDIA 7	NAME		
			TTL		
			TTL		
			ROLL		
			ROLL		
			CUTSHEET		
			CUTSHEET		
		MEDIA OTHER	NAME		
			TTL		
			TTL		
			ROLL		
			ROLL		
			CUTSHEET		
			CUTSHEET		
		MEDIASIZE1 ROLL	P-SQ 24-36		
			P-SQ 24-36		
			P-SQ 17-24		
			P-SQ 17-24		
			P-SQ -17		
			P-SQ -17		
			P-CNT 24-36		
			P-CNT 17-24		
			P-CNT -17		
		MEDIASIZE2 ROLL	D-SQ 24-36		
			D-SQ 24-36		
			D-SQ 17-24		
			D-SQ 17-24		
			D-SQ -17		
			D-SQ -17		
			D-CNT 24-36		
			D-CNT 17-24		
			D-CNT -17		

First Level	Second Level	Third Level	Fourth Level	Fifth Level	
COUNTER	MEDIASIZE1 CUT	P-SQ 24-36			
		P-SQ 24-36			
		P-SQ 17-24			
		P-SQ 17-24			
		P-SQ -17			
		P-SQ -17			
		P-CNT 24-36			
		P-CNT 17-24			
		P-CNT -17			
		MEDIASIZE2 CUT			D-SQ 24-36
	D-SQ 24-36				
	D-SQ 17-24				
	D-SQ 17-24				
	D-SQ -17				
	D-SQ -17				
	D-CNT 24-36				
	D-CNT 17-24				
	D-CNT -17				
	HEAD DOT CNT. 1	PC1			
	---	BK			
		TTL			
	HEAD DOT CNT. 2	PC1			
	---	BK			
		TTL			
	PARTS CNT.	COUNTER Wia-1			OK/W1/W2/E
					1:00
					2:00
					3:00
					4:00

		COUNTER CT-1			OK/W1/W2/E
					1:00
					2:00
					3:00
					4:00

First Level	Second Level	Third Level	Fourth Level	Fifth Level	Sixth Level	
SETTING	Pth	ON/OFF				
	RTC	DATE	yyyy/mm/dd			
		TIME	hh:mm			
	PV AUTO JUDGE	ON/OFF				
	NETWORK	CERTIFICATE	CA-CERTIFICATE	VALIDITY	yyyy/mm/dd	
	E-RDS	E-RDS SWITCH	ON/OFF			
		UGW-ADDRESS	http://XXX			
		UGW-PORT	XXXXX			
		COM-TEST	YES			
	COM-LOG					
HEAD DOT INF	ON/OFF					
INITIALIZE	WARNIG	: Press the [OK] button to clear				
	ERROR	: Press the [OK] button to clear				
	JAM	: Press the [OK] button to clear				
	ADJUST	: Press the [OK] button to clear				
	W-INK	: Press the [OK] button to clear				
	CARRIAGE	: Press the [OK] button to clear				
	PURGE	: Press the [OK] button to clear				
	INK-USE CNT	: Press the [OK] button to clear				
	W-INK-CHG CNT	: Press the [OK] button to clear				
	HEAD-CHG L CNT	: Press the [OK] button to clear				
	HEAD-CHG R CNT	: Press the [OK] button to clear				
	HDD BOX PASS.	ALL FOLDERS	: Press the [OK] button to clear			
		FOLDER 1	: Press the [OK] button to clear			

	FOLDER 29	: Press the [OK] button to clear				
	PARTS-CHG CNT	PARTS Wia-1	: Press the [OK] button to clear			

		PARTS CT-1	: Press the [OK] button to clear			
	PARTS COUNTER	PARTS Wia-1	: Press the [OK] button to clear			

		PARTS CT-1	: Press the [OK] button to clear			
	USER SETTEING	YES/NO				
CA-KEY	YES/NO					
ERDS-DAT	YES/NO					
JOB LOG	YES/NO					

7.1.8 Details of Service Mode

iPF6100

This section provides details of the Service mode menu.

a) DISPLAY

Displays and prints the printer information.

1) PRINF INF

Prints adjustment values in the User menu, [DISPLAY] and [COUNTER] parameters on A4-size or larger paper. When roll media is used, the layout is optimized according to the media width.

2) SYSTEM

Displays the printer information shown below.

T-7-30

Display	Description	Unit
S/N	Serial number of printer	-
TYPE	Type setting on main controller PCB * iPF6100 is represented by 24.	-
LF TYPE	Feed roller type: 0 or 1	-
TMP	Ambient temperature	degrees C
SIZE LF	Detected size of loaded media (feed direction) 0 is always detected for the roll media.	mm
SIZE LF	Detected size of loaded media (feed direction) 0 is always detected for the roll media.	inch
SIZE CR	Detected size of loaded media (carriage scan direction)	mm
SIZE CR	Detected size of loaded media (carriage scan direction)	inch

3) HEAD

Displays the following EEPROM information of the printhead.

T-7-31

Display	Description
S/N R	Serial number of printhead R
S/N L	Serial number of printhead L
LOT R	Lot number of printhead R
LOT L	Lot number of printhead L

4) INK

Displays the numbers of days passed since installation of the following ink tanks.

T-7-32

Display	Description	Unit
BK	Number of days passed since the BK ink tank was installed	Day(s)
MBK	Number of days passed since the MBK ink tank was installed	Day(s)
C	Number of days passed since the C ink tank was installed	Day(s)
M	Number of days passed since the M ink tank was installed	Day(s)
Y	Number of days passed since the Y ink tank was installed	Day(s)
PC	Number of days passed since the PC ink tank was installed	Day(s)
PM	Number of days passed since the PM ink tank was installed	Day(s)
GY	Number of days passed since the GY ink tank was installed	Day(s)
PGY	Number of days passed since the PGY ink tank was installed	Day(s)
R	Number of days passed since the R ink tank was installed	Day(s)
G	Number of days passed since the G ink tank was installed	Day(s)
B	Number of days passed since the B ink tank was installed	Day(s)

5) WARNING

Displays the warning history (up to 20 events). The newest event has the smallest history number.

6) ERROR

Displays the error history (up to 20 events). The newest event has the smallest history number.

7) INK CHECK

Displays the number of times the remaining ink level detection function was turned off, to accommodate refilled ink cartridges in the order of Y, PC, C, PGY, GY, BK, PM, M, MBK, R, G, and B.

0: Never

1: Executed at least once

c) ADJUST

Performs adjustments and prints the adjustment and check patterns necessary for adjusting the printer parts.

1) PRINT PATTERN

T-7-36

Display	Description
NOZZLE 1	Prints the nozzle check pattern by single direction/ single pass without using the non-discharging back up. It is used to check for the non-discharging nozzles. - Media size: A4 - Media type: any
OPTICAL AXIS	Prints the pattern and adjusts the optical axis of the multi sensor. For details, refer to "Disassembly/Reassembly" > "Adjustment and Setup Items" > "Procedure after replacing the carriage unit or multi sensor". - Media type: photo glossy paper
LF & HAKUSHA	* For Factory
SENSOR CHECK	* For Factory



LF & HAKUSYA and SENSOR CHECK are intended for factory adjustment purposes.
No adjustment by service personnel is required.

2) HEAD ADJ.

Set or initialize the registration adjustment values of each printheads.

T-7-37

Display		Description
AUTO HEAD ADJ	ROUGH	Prints the pattern for auto head adjustment (rough adjustment).
MANUAL HEAD ADJ	DETAIL	Prints the detail patterns for the manual head adjustment. After printing, the mode will change to [ADJ. SETTING]. Check the printed patterns and input the set values.
	BASIC	Prints the basic patterns for the manual head adjustment. After printing, the mode will change to [ADJ. SETTING]. Check the printed patterns and input the set values.
ADJ. SETTING	A to F	This mode is to input the registration adjustment values. It is possible to return the values to the former one by printing the status print before changing the value.
	A-1 to F-1	
	SAVE SETTINGS	Save the registration adjustment values that has been input.
RESET SETTINGS		Initialize the registration adjustment values (to 0).

3) NOZZLE CHK POS.

This mode is for adjusting the optical axis of the head management sensor. For details, refer to "Disassembly/Reassembly" > "Adjustment and Setup Items" > "Procedure after replacing the head management sensor".

4) GAP CLIB.

This mode measures the gap between the printhead and media by using the multi sensor and corrects the calibration value.

d) REPLACE

1) CUTTER

This mode is for replacing the cutter unit.

2) L&R PRINTHEADS

Replaces printheads L and R.

e) COUNTER

Displays the life (operation frequency and time) of each unit, print counts for each media type, and else. The count values can be printed from [PRINT INF].

1) PRINTER: Counters related to product life

T-7-38

Display	Description	Unit
LIFE TTL	Cumulative number of printed media (equivalent of A4)	sheets
LIFE ROLL	Cumulative number of printed roll media (equivalent of A4)	sheets
LIFE CUTSHEET	Cumulative number of printed cut sheets (equivalent to A4)	sheets
LIFE A-F	Cumulative number of printed media for environments A to F	sheets
POWER ON	Cumulative power-on time (excluding the sleep time)	Hours
W-INK	Remaining capacity of the maintenance cartridge	%
CUTTER	Number of cutting operations (count as 1 by moving back and forth)	Times
WIPE	Number of wiping operations	Times

2) CARRIAGE: Counters related to carriage unit

T-7-39

Display	Description	Unit
PRINT	Cumulative printing time	Hours
CR COUNT	Cumulative carriage scan count (count as 1 by moving back and forth)	Times
CR DIST.	Cumulative carriage scan distance (count as 1 by moving 210mm)	Times
PRINT COUNT	Cumulative print end count (count as 1 by capping)	Times

3) PURGE: Counters related to purge unit

T-7-40

Display	Description	Unit
CLN-A-1	Cumulative number of automatic cleaning 1 (normal suction) operations	Times
CLN-A-2	Cumulative number of automatic cleaning 2 (ink level adjusting) operations	Times
CLN-A-3	Cumulative number of automatic cleaning 3 (initial filling) operations	Times
CLN-A-6	Cumulative number of automatic cleaning 6 (strong normal suction) operations	Times
CLN-A-7	Cumulative number of automatic cleaning 7 (aging) operations	
CLN-A-10	Cumulative number of automatic cleaning 10 (ink filling after secondary transportation) operations	Times
CLN-A-11	Cumulative number of automatic cleaning 11 (ink filling after head replacement) operations	Times
CLN-A-15	Cumulative number of automatic cleaning 15 (dot count small suction) operations	Times
CLN-A-16	Cumulative number of automatic cleaning 16 (sedimented ink agitation) operations	Times
CLN-A-17	Cumulative number of automatic cleaning 17 (small suction) operations	Times
CLN-A-TTL	Total number of automatic cleaning operations	Times
CLN-M-1	Cumulative number of manual cleaning 1 (normal suction) operations	Times
CLN-M-4	Cumulative number of manual cleaning 4 (ink draining from head after head replacement) operations	Times
CLN-M-5	Cumulative number of manual cleaning 5 (ink draining from head and tube before transportation) operations	Times
CLN-M-6	Cumulative number of manual cleaning 6 (normal strong suction) operations	Times
CLN-M-TTL	Total number of manual cleaning operations	Times

4) CLEAR: Counters related to counter initialization

T-7-41

Display	Description	Unit
CLR-INK CONSUME	Cumulative count of ink section consumption amount clearing	Times
CLR-CUTTER EXC.	Cumulative count of cutter replacement count clearing	Times
CLR-MTC EXC.	Cumulative count of maintenance cartridge replacement count clearing	Times
CLR-HEAD L EXC.	Cumulative count of printhead L replacement count clearing	Times
CLR-HEAD R EXC.	Cumulative count of printhead R replacement count clearing	Times
CLR-UNIT A EXC.	Cumulative count of unit A(waste ink system) replacement count clearing	Times
CLR-UNIT B EXC.	Cumulative count of unit B(platen duct) replacement count clearing	Times
CLR-UNIT D EXC.	Cumulative count of unit D(carriage unit) replacement count clearing	Times
CLR-UNIT F EXC.	Cumulative count of unit F(ink supply system) replacement count clearing	Times
CLR-UNIT H EXC.	Cumulative count of unit H(purge) replacement count clearing	Times
CLR-UNIT L EXC.	Cumulative count of unit L(head management sensor) replacement count clearing	Times
CLR-UNIT P EXC.	Cumulative count of unit P(feed motor) replacement count clearing	Times
CLR-UNIT R EXC.	Cumulative count of unit R(spur cam) replacement count clearing	Times
CLR-UNIT V EXC.	Cumulative count of unit V(mist fan unit) replacement count clearing	Times
CLR-UNIT X EXC.	Cumulative count of unit X(multi sensor) replacement count clearing	Times
CLR-FACTORY CNT.	For factory	Times

5) EXCHANGE: Counters related to parts replacement

T-7-42

Display	Description	Unit
CUTTER EXC.	Cutter replacement count (Count of executing cutter replacement mode)	Times
MTC EXC.	Maintenance cartridge replacement count	Times
HEAD R EXC.	Printhead R replacement count	Times
HEAD L EXC.	Printhead L replacement count	Times
BOARD EXC.(M/B)	Main controller PCB replacement count	Times
UNIT A EXC.	Unit A (waste ink system) replacement count (Count of executing [INITIALIZE] > [PARTS COUNTER] > [PARTS A])	Times
UNIT B EXC.	Unit B (waste ink system) replacement count (Count of executing [INITIALIZE] > [PARTS COUNTER] > [PARTS B])	Times
UNIT D EXC.	Unit D (carriage unit) replacement count (Count of executing [INITIALIZE] > [PARTS COUNTER] > [PARTS D])	Times
UNIT F EXC.	Unit F (ink supply system) replacement count (Count of executing [INITIALIZE] > [PARTS COUNTER] > [PARTS F])	Times
UNIT H EXC.	Unit H (purge unit) replacement count (Count of executing [INITIALIZE] > [PARTS COUNTER] > [PARTS H])	Times
UNIT L EXC.	Unit L (head management sensor) replacement count (Count of executing [INITIALIZE] > [PARTS COUNTER] > [PARTS L])	Times
UNIT P EXC.	Unit P (feed unit) replacement count (Count of executing [INITIALIZE] > [PARTS COUNTER] > [PARTS P])	Times
UNIT R EXC.	Unit R (pick-up system) replacement count (Count of executing [INITIALIZE] > [PARTS COUNTER] > [PARTS R])	Times
UNIT V EXC.	Unit V(mist fan unit) replacement count (Count of executing [INITIALIZE] > [PARTS COUNTER] > [PARTS V])	Times
UNIT X EXC.	Unit X(multi sensor) replacement count (Count of executing [INITIALIZE] > [PARTS COUNTER] > [PARTS X])	Times

6) DETAIL-CNT: Other counters

T-7-43

Display	Description	Unit
MOVE PRINTER	Count of [Move Printer] operations	Times
N-INKCHK(XX)	XX: Ink color Count of turning off the ink remaining level detection for each color	Times
MEDIACONFIG-CNT	Count of media registered by media editor	Times

7) INK-USE1: Counters related to ink consumption

T-7-44

Display	Description	Unit
INK-USE1(XX)	XX: Ink color Cumulative consumption amount of generic ink	ml
INK-USE1(TTL)	Total amount of cumulative consumption of generic ink	ml
N-INK-USE1(XX)	XX: Ink color Cumulative consumption amount of refilled ink	ml
N-INK-USE1(TTL)	Total amount of cumulative consumption of refilled ink	ml

8) INK-USE2: Counters related to ink consumption

T-7-45

Display	Description	Unit
INK-USE2(XX)	XX: Ink color Consumption amount of generic ink of the currently installed ink tank.	ml
INK-USE2(TTL)	Total consumption amount of generic ink of the currently installed ink tanks	ml
N-INK-USE2(XX)	XX: Ink color Consumption amount of refilled ink of the currently installed ink tank	ml
N-INK-USE2(TTL)	Total consumption amount of refilled ink of the currently installed ink tanks	ml

9) INK-EXC: Counters related to ink tank replacement

T-7-46

Display	Description	Unit
INK-EXC(XX)	XX: Ink color Cumulative count of generic ink tank replacement	ml
INK-EXC(TTL)	Total amount of cumulative count of generic ink tank replacement	ml
N-INK-EXC(XX)	XX: Ink color Cumulative count of refilled ink tank replacement	ml
N-INK-EXC(TTL)	Total amount of cumulative count of refilled ink tank replacement	ml

10) MEDIA x (x: 1 to 7): Counters related to media

One to seven media types are displayed individually in order with large cumulative print area.

T-7-47

Display	Description	Unit
NAME	Media type	-
TTL	Total amount of cumulative print area of roll media and cut sheet (metric)	m2
TTL	Total amount of cumulative print area of roll media and cut sheet (inch)	Sq.f
ROLL	Cumulative print area of roll media (metric)	m2
ROLL	Cumulative print area of roll media (inch)	Sq.f
CUT SHEET	Cumulative print area of cut sheet (metric)	m2
CUT SHEET	Cumulative print area of cut sheet (inch)	Sq.f

11) MEDIA OTHER: Counters related to media

Displays the total amount of cumulative print area of the other media type than the above-mentioned

T-7-48

Display	Description	Unit
TTL	Total amount of cumulative print area of roll media and cut sheet (metric)	m2
TTL	Total amount of cumulative print area of roll media and cut sheet (inch)	Sq.f
ROLL	Cumulative print area of roll media (metric)	m2
ROLL	Cumulative print area of roll media (inch)	Sq.f
CUT SHEET	Cumulative print area of cut sheet (metric)	m2
CUT SHEET	Cumulative print area of cut sheet (inch)	Sq.f

12) MEDIASIZE1 ROLL: Counters related to roll media printing

T-7-49

Display	Description	Unit
P-SQ 24-36	Cumulative print area of paper equal to or larger than 24 inches but less than 36 inches (physical size)	m2/Sq.f
P-SQ 17-24	Cumulative print area of paper equal to or larger than 17 inches but less than 24 inches (physical size)	m2/Sq.f
P-SQ -17	Cumulative print area of paper less than 17 inches (physical size)	m2/Sq.f
P-CNT 24-36	Cumulative number of sheets of A4-equivalent paper equal to or larger than 24 inches but less than 36 inches (physical size)	sheets
P-CNT 17-24	Cumulative number of sheets of A4-equivalent paper equal to or larger than 17 inches but less than 24 inches (physical size)	sheets
P-CNT -17	Cumulative number of sheets of A4-equivalent paper less than 17 inches (physical size)	sheets

13) MEDIASIZE2 ROLL: Counters related to roll media printing

T-7-50

Display	Description	Unit
D-SQ 24-36	Cumulative print area of paper equal to or larger than 24 inches but less than 36 inches (data size)	m2/Sq.f
D-SQ 17-24	Cumulative print area of paper equal to or larger than 17 inches but less than 24 inches (data size)	m2/Sq.f
D-SQ -17	Cumulative print area of paper less than 17 inches (data size)	m2/Sq.f
D-CNT 24-36	Cumulative number of sheets of A4-equivalent paper equal to or larger than 24 inches but less than 36 inches (data size)	sheets
D-CNT 17-24	Cumulative number of sheets of A4-equivalent paper equal to or larger than 17 inches but less than 24 inches (data size)	sheets
D-CNT -17	Cumulative number of sheets of A4-equivalent paper less than 17 inches (data size)	sheets

14) MEDIASIZE1 CUT: Counters related to cut sheet printing

T-7-51

Display	Description	Unit
P-SQ 24-36	Cumulative print area of paper equal to or larger than 24 inches but less than 36 inches (physical size)	m2/Sq.f
P-SQ 17-24	Cumulative print area of paper equal to or larger than 17 inches but less than 24 inches (physical size)	m2/Sq.f
P-SQ -17	Cumulative print area of paper less than 17 inches (physical size)	m2/Sq.f
P-CNT 24-36	Cumulative number of sheets of A4-equivalent paper equal to or larger than 24 inches but less than 36 inches (physical size)	sheets
P-CNT 17-24	Cumulative number of sheets of A4-equivalent paper equal to or larger than 17 inches but less than 24 inches (physical size)	sheets
P-CNT -17	Cumulative number of sheets of A4-equivalent paper less than 17 inches (physical size)	sheets

15) MEDIASIZE2 CUT: Counters related to cut sheet printing

T-7-52

Display	Description	Unit
D-SQ 24-36	Cumulative print area of paper equal to or larger than 24 inches but less than 36 inches (data size)	m2/Sq.f
D-SQ 17-24	Cumulative print area of paper equal to or larger than 17 inches but less than 24 inches (data size)	m2/Sq.f
D-SQ -17	Cumulative print area of paper less than 17 inches (data size)	m2/Sq.f
D-CNT 24-36	Cumulative number of sheets of A4-equivalent paper equal to or larger than 24 inches but less than 36 inches (data size)	sheets
D-CNT 17-24	Cumulative number of sheets of A4-equivalent paper equal to or larger than 17 inches but less than 24 inches (data size)	sheets
D-CNT -17	Cumulative number of sheets of A4-equivalent paper less than 17 inches (data size)	sheets

16) HEAD DOT CNT.1: Counter related to dot count

T-7-53

Display	Description	Unit
XX	XX: Ink color Dot counts of each colors of the currently installed printhead	(x 1,000,000) dots
TTL	Total dot counts of each colors of the currently installed printhead	(x 1,000,000) dots

17) HEAD DOT CNT.2: Counter related to dot count

T-7-54

Display	Description	Unit
XX	XX: Ink color Cumulative dot counts of each colors	(x 1,000,000) dots
TTL	Total cumulative dot counts of each colors	(x 1,000,000) dots

18) PARTS CNT. : Counter related to consumable parts

T-7-55

Display		Description	Unit	
COUNTER x		x: Unit number of consumable parts (For detail, refer to "Maintenance and Inspection" > "Consumable Parts") Display the status and the days passed since the counter resetting. - Status OK: Use rate (until part replacement) of all consumable parts included in each unit are below 90%. W1: Use rate (until part replacement) of either of the consumable parts included in each unit has reached 90% or more. W2: Use rate (until part replacement) of either of the consumable parts included in each unit has reached 100%, but no need to stop the printer. E : Use rate (until part replacement) of either of the consumable parts included in each unit has reached 100%, and the printer needs to be stopped.	Day(s)	
	PARTS yy	1:	yy: Unit number of consumable parts (For detail, refer to "Maintenance and Inspection" > "Consumable Parts") Counter of the consumable part (current)	
		2:	Life of the consumable part	
		3:	Use rate until part replacement	%
		4:	Counter of the consumable part (accumulate)	

f) SETTING

Make various settings.

1) Pth

Turn on or off the head pulse rank control function.

Default: OFF

2) RTC

Set RTC (real time clock) after replacing the lithium battery on the main controller PCB.

T-7-56

Display		Description
DATE	yyyy/mm/dd	Set date
TIME	hh:mm	Set time

3) PV AUTO JUDGE

Sets ink saver mode.

Default: OFF

g) INITIALIZE

Clear the [DISPLAY] histories, [ADJUST] settings, [COUNTER] values, and other parameters.

T-7-57

Display		Description
WARNING		Initialize the history of WARNING. (All displayed contents of [DISPLAY] > [WARNING] will be initialized.)
ERROR		Initialize the history of ERROR. (All displayed contents of [DISPLAY] > [ERROR] will be initialized.)
ADJUST		Initialize the value of band adjustment (by user) and head adjustment. The automatically adjusted value will not be initialized.
W-INK		Initialize the remaining capacity (%) of the maintenance cartridge. (Clear [COUNTER] > [PRINTER] > [W-INK])
PURGE		Initialize the counter related to purge unit. (Clear [COUNTER] > [PURGE])
INK-USE CNT		Initialize the consumption amount of ink. (Clear [COUNTER] > [INK-USE2], and count up [COUNTER] > [CLEAR] > [CLR-INK CONSUME])
CUTTER-CHG CNT		Initialize the cutter unit replacement frequency. (Clear [COUNTER] > [EXCHANGE] > [CUTTER EXC.], and count up [COUNTER] > [CLEAR] > [CLR-CUTTER EXC.])
W-INK-CHG CNT		Initialize the maintenance cartridge replacement frequency. (Clear [COUNTER] > [EXCHANGE] > [MTC EXC.], and count up [COUNTER] > [CLEAR] > [CLR-MTC EXC.])
HEAD-CHG R CNT		Initialize the printhead R replacement frequency. (Clear [COUNTER] > [EXCHANGE] > [HEAD R EXC.], and count up [COUNTER] > [CLEAR] > [CLR-HEAD R EXC.])
HEAD-CHG L CNT		Initialize the printhead L replacement frequency. (Clear [COUNTER] > [EXCHANGE] > [HEAD L EXC.], and count up [COUNTER] > [CLEAR] > [CLR-HEAD L EXC.])
PARTS-CHG CNT	PARTS xx	xx: Unit number of consumable parts (For details, refer to "Maintenance and Inspection" > "Consumable Parts") Initialize the consumable part replacement frequency. (Clear [COUNTER] > [EXCHANGE] > [UNIT x EXC], and count up [COUNTER] > [CLEAR] > [CLR-UNIT x EXC.])
PARTS COUNTER	PARTS xx	xx: Unit number of consumable parts (For details, refer to "Maintenance and Inspection" > "Consumable Parts") Initialize the counter amount of the consumable parts. (Clear [COUNTER] > [PARTS CNT.] > [PARTS x]) * After replacing the consumable part, be sure to execute this menu.

7.1.9 Details of Service Mode

iPF6200

This section provides details of the Service mode menu.

a) DISPLAY

Displays and prints the printer information.

1) PRINF INF

Prints adjustment values in the User menu, [DISPLAY] and [COUNTER] parameters on A4-size or larger paper. When roll media is used, the layout is optimized according to the media width.

2) SYSTEM

Displays the printer information shown below.

T-7-58

Display	Description	Unit
S/N	Serial number of printer	-
TYPE	Type setting on main controller PCB * iPF6200 is represented by 24.	-
LF TYPE	Feed roller type: 0 or 1	-
TMP	Ambient temperature	degrees C
SIZE LF	Detected size of loaded media (feed direction) 0 is always detected for the roll media.	mm
SIZE LF	Detected size of loaded media (feed direction) 0 is always detected for the roll media.	inch
SIZE CR	Detected size of loaded media (carriage scan direction)	mm
SIZE CR	Detected size of loaded media (carriage scan direction)	inch

3) HEAD

Displays the following EEPROM information of the printhead.

T-7-59

Display	Description
S/N R	Serial number of printhead R
S/N L	Serial number of printhead L
LOT R	Lot number of printhead R
LOT L	Lot number of printhead L

4) INK

Displays the numbers of days passed since installation of the following ink tanks.

T-7-60

Display	Description	Unit
BK	Number of days passed since the BK ink tank was installed	Day(s)
MBK	Number of days passed since the MBK ink tank was installed	Day(s)
C	Number of days passed since the C ink tank was installed	Day(s)
M	Number of days passed since the M ink tank was installed	Day(s)
Y	Number of days passed since the Y ink tank was installed	Day(s)
PC	Number of days passed since the PC ink tank was installed	Day(s)
PM	Number of days passed since the PM ink tank was installed	Day(s)
GY	Number of days passed since the GY ink tank was installed	Day(s)
PGY	Number of days passed since the PGY ink tank was installed	Day(s)
R	Number of days passed since the R ink tank was installed	Day(s)
G	Number of days passed since the G ink tank was installed	Day(s)
B	Number of days passed since the B ink tank was installed	Day(s)

5) WARNING

Displays the warning history (up to 20 events). The newest event has the smallest history number.

6) ERROR

Displays the error history (up to 20 events). The newest event has the smallest history number.

7) INK CHECK

Displays the number of times the remaining ink level detection function was turned off, to accommodate refilled ink cartridges in the order of Y, PC, C, PGY, GY, BK, PM, M, MBK, R, G, and B.

0: Never

1: Executed at least once

b) I/O DISPLAY

The status of each sensor and switch is shown in the display.

Sensor and switch status is shown in the display.

ON = 1

OFF or not used = 0

Screen 1

T-7-61

I	/	O	D	I	S	P	L	A	Y	I	Upper row
0	0	0	0	0	0	0	0	0	0	0	Lower row

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 (Display position)

Screen 2

T-7-62

I	/	O	D	I	S	P	L	A	Y	2	Upper row
0	0	0	0	0	0	0	0	0	0	0	Lower row

17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 (Display position)

Screens 1 and 2 are selectable with the [◀] and [▶] buttons.

These screens display the associated sensor status as listed in the table below.

T-7-63

Display position	Sensor name	LCD display contents
1	Pump Cam Sensor	0: Sensor ON , 1: Sensor OFF
2	Valve Open/Closed Detection Sensor	0: Sensor ON , 1: Sensor OFF
3	(Not Used)	-
4	(Not Used)	-
5	Spur Cam Sensor	0: Sensor ON , 1: Sensor OFF
6	Lift Cam Sensor	0: Sensor ON , 1: Sensor OFF
7	Feed Roller HP Sensor	0: Sensor ON , 1: Sensor OFF
8	Top Cover Sensor	0: Cover open , 1: Cover close
9	(Not Used)	-
10	Ink Tank Cover Switch	0: Cover open , 1: Cover close
11	(Not Used)	-
12	Paper Detection Sensor	0: Sensor ON , 1: Sensor OFF
13	(Not Used)	-
14	(Not Used)	-
15	(Not Used)	-
16	(Not Used)	-
17	Roll Media Sensor	0: Sensor ON , 1: Sensor OFF
18	Roll Cam Sensor	0: Sensor ON , 1: Sensor OFF
19	(Not Used)	-
20	Cutter Right Position Sensor	0: Sensor ON , 1: Sensor OFF
21	Cutter HP Sensor	0: Sensor ON , 1: Sensor OFF
22	(Not Used)	-
23	(Not Used)	-
24	(Not Used)	-
25	(Not Used)	-
26	Roll unit detection	0: Roll unit not detected , 1: Roll unit detected
27	(Not Used)	-
28	(Not Used)	-
29	(Not Used)	-
30	(Not Used)	-
31	(Not Used)	-
32	(Not Used)	-

c) ADJUST

Performs adjustments and prints the adjustment and check patterns necessary for adjusting the printer parts.

1) PRINT PATTERN

T-7-64

Display	Description
NOZZLE 1	Prints the nozzle check pattern by single direction/ single pass without using the non-discharging back up. It is used to check for the non-discharging nozzles. - Media size: A4 - Media type: any
OPTICAL AXIS	Prints the pattern and adjusts the optical axis of the multi sensor. For details, refer to "Disassembly/Reassembly" > "Adjustment and Setup Items" > "Procedure after replacing the carriage unit or multi sensor". - Media type: photo glossy paper
LF & HAKUSHA	* For Factory
SENSOR CHECK	* For Factory



LF & HAKUSYA and SENSOR CHECK are intended for factory adjustment purposes.
No adjustment by service personnel is required.

2) HEAD ADJ.

Set or initialize the registration adjustment values of each printheads.

T-7-65

Display		Description
AUTO HEAD ADJ	ROUGH	Prints the pattern for auto head adjustment (rough adjustment).
MANUAL HEAD ADJ	DETAIL	Prints the detail patterns for the manual head adjustment. After printing, the mode will change to [ADJ. SETTING]. Check the printed patterns and input the set values.
	BASIC	Prints the basic patterns for the manual head adjustment. After printing, the mode will change to [ADJ. SETTING]. Check the printed patterns and input the set values.
ADJ. SETTING	A to F	This mode is to input the registration adjustment values. It is possible to return the values to the former one by printing the status print before changing the value.
	A-1 to F-2	
	SAVE SETTINGS	Save the registration adjustment values that has been input.
RESET SETTINGS		Initialize the registration adjustment values (to 0).

3) NOZZLE CHK POS.

This mode is for adjusting the optical axis of the head management sensor. For details, refer to "Disassembly/Reassembly" > "Adjustment and Setup Items" > "Procedure after replacing the head management sensor".

4) GAP CLIB.

This mode measures the gap between the printhead and media by using the multi sensor and corrects the calibration value.

d) REPLACE

1) CUTTER

This mode is for replacing the cutter unit.

2) L&R PRINTHEADS

Replaces printheads L and R.

e) COUNTER

Displays the life (operation frequency and time) of each unit, print counts for each media type, and else. The count values can be printed from [PRINT INF].

1) PRINTER: Counters related to product life

T-7-66

Display	Description	Unit
LIFE TTL	Cumulative number of printed media (equivalent of A4)	sheets
LIFE ROLL	Cumulative number of printed roll media (equivalent of A4)	sheets
LIFE CUTSHEET	Cumulative number of printed cut sheets (equivalent to A4)	sheets
LIFE A-F	Cumulative number of printed media for environments A to F	sheets
POWER ON	Cumulative power-on time (excluding the sleep time)	Hours
W-INK	Remaining capacity of the maintenance cartridge	%
CUTTER	Number of cutting operations (count as 1 by moving back and forth)	Times
WIPE	Number of wiping operations	Times

2) CARRIAGE: Counters related to carriage unit

T-7-67

Display	Description	Unit
PRINT	Cumulative printing time	Hours
CR COUNT	Cumulative carriage scan count (count as 1 by moving back and forth)	Times
CR DIST.	Cumulative carriage scan distance (count as 1 by moving 210mm)	Times
PRINT COUNT	Cumulative print end count (count as 1 by capping)	Times

3) PURGE: Counters related to purge unit

T-7-68

Display	Description	Unit
CLN-A-1	Cumulative number of automatic cleaning 1 (normal suction) operations	Times
CLN-A-2	Cumulative number of automatic cleaning 2 (ink level adjusting) operations	Times
CLN-A-3	Cumulative number of automatic cleaning 3 (initial filling) operations	Times
CLN-A-6	Cumulative number of automatic cleaning 6 (strong normal suction) operations	Times
CLN-A-7	Cumulative number of automatic cleaning 7 (aging) operations	
CLN-A-10	Cumulative number of automatic cleaning 10 (ink filling after secondary transportation) operations	Times
CLN-A-11	Cumulative number of automatic cleaning 11 (ink filling after head replacement) operations	Times
CLN-A-15	Cumulative number of automatic cleaning 15 (dot count small suction) operations	Times
CLN-A-16	Cumulative number of automatic cleaning 16 (sedimented ink agitation) operations	Times
CLN-A-17	Cumulative number of automatic cleaning 17 (small suction) operations	Times
CLN-A-TTL	Total number of automatic cleaning operations	Times
CLN-M-1	Cumulative number of manual cleaning 1 (normal suction) operations	Times
CLN-M-4	Cumulative number of manual cleaning 4 (ink draining from head after head replacement) operations	Times
CLN-M-5	Cumulative number of manual cleaning 5 (ink draining from head and tube before transportation) operations	Times
CLN-M-6	Cumulative number of manual cleaning 6 (normal strong suction) operations	Times
CLN-M-TTL	Total number of manual cleaning operations	Times

4) CLEAR: Counters related to counter initialization

T-7-69

Display	Description	Unit
CLR-INK CONSUME	Cumulative count of ink section consumption amount clearing	Times
CLR-CUTTER EXC.	Cumulative count of cutter replacement count clearing	Times
CLR-MTC EXC.	Cumulative count of maintenance cartridge replacement count clearing	Times
CLR-HEAD R EXC.	Cumulative count of printhead R replacement count clearing	Times
CLR-HEAD L EXC.	Cumulative count of printhead L replacement count clearing	Times
CLR-UNIT A EXC.	Cumulative count of unit A(waste ink system) replacement count clearing	Times
CLR-UNIT B EXC.	Cumulative count of unit B(platen duct) replacement count clearing	Times
CLR-UNIT D EXC.	Cumulative count of unit D(carriage unit) replacement count clearing	Times
CLR-UNIT F EXC.	Cumulative count of unit F(ink supply system) replacement count clearing	Times
CLR-UNIT H EXC.	Cumulative count of unit H(purge) replacement count clearing	Times
CLR-UNIT L EXC.	Cumulative count of unit L(head management sensor) replacement count clearing	Times
CLR-UNIT P EXC.	Cumulative count of unit P(feed motor) replacement count clearing	Times
CLR-UNIT R EXC.	Cumulative count of unit R(spur cam) replacement count clearing	Times
CLR-UNIT V EXC.	Cumulative count of unit V(mist fan unit) replacement count clearing	Times
CLR-UNIT X EXC.	Cumulative count of unit X(multi sensor) replacement count clearing	Times
CLR-FACTORY CNT.	For factory	Times

5) EXCHANGE: Counters related to parts replacement

T-7-70

Display	Description	Unit
CUTTER EXC.	Cutter replacement count (Count of executing cutter replacement mode)	Times
MTC EXC.	Maintenance cartridge replacement count	Times
HEAD R EXC.	Printhead R replacement count	Times
HEAD L EXC.	Printhead L replacement count	Times
BOARD EXC.(M/B)	Main controller PCB replacement count	Times
UNIT A EXC.	Unit A (waste ink system) replacement count (Count of executing [INITIALIZE] > [PARTS COUNTER] > [PARTS A])	Times
UNIT B EXC.	Unit B (waste ink system) replacement count (Count of executing [INITIALIZE] > [PARTS COUNTER] > [PARTS B])	Times
UNIT D EXC.	Unit D (carriage unit) replacement count (Count of executing [INITIALIZE] > [PARTS COUNTER] > [PARTS D])	Times
UNIT F EXC.	Unit F (ink supply system) replacement count (Count of executing [INITIALIZE] > [PARTS COUNTER] > [PARTS F])	Times
UNIT H EXC.	Unit H (purge unit) replacement count (Count of executing [INITIALIZE] > [PARTS COUNTER] > [PARTS H])	Times
UNIT L EXC.	Unit L (head management sensor) replacement count (Count of executing [INITIALIZE] > [PARTS COUNTER] > [PARTS L])	Times
UNIT P EXC.	Unit P (feed unit) replacement count (Count of executing [INITIALIZE] > [PARTS COUNTER] > [PARTS P])	Times
UNIT R EXC.	Unit R (pick-up system) replacement count (Count of executing [INITIALIZE] > [PARTS COUNTER] > [PARTS R])	Times
UNIT V EXC.	Unit V(mist fan unit) replacement count (Count of executing [INITIALIZE] > [PARTS COUNTER] > [PARTS V])	Times
UNIT X EXC.	Unit X(multi sensor) replacement count (Count of executing [INITIALIZE] > [PARTS COUNTER] > [PARTS X])	Times

6) DETAIL-CNT: Other counters

T-7-71

Display	Description	Unit
MOVE PRINTER	Count of [Move Printer] operations	Times
N-INKCHK(XX)	XX: Ink color Count of turning off the ink remaining level detection for each color	Times
MEDIACONFIG-CNT	Count of media registered by media editor	Times

7) INK-USE1: Counters related to ink consumption

T-7-72

Display	Description	Unit
INK-USE1(XX)	XX: Ink color Cumulative consumption amount of generic ink	ml
INK-USE1(TTL)	Total amount of cumulative consumption of generic ink	ml
N-INK-USE1(XX)	XX: Ink color Cumulative consumption amount of refilled ink	ml
N-INK-USE1(TTL)	Total amount of cumulative consumption of refilled ink	ml

8) INK-USE2: Counters related to ink consumption

T-7-73

Display	Description	Unit
INK-USE2(XX)	XX: Ink color Consumption amount of generic ink of the currently installed ink tank.	ml
INK-USE2(TTL)	Total consumption amount of generic ink of the currently installed ink tanks	ml
N-INK-USE2(XX)	XX: Ink color Consumption amount of refilled ink of the currently installed ink tank	ml
N-INK-USE2(TTL)	Total consumption amount of refilled ink of the currently installed ink tanks	ml

9) INK-EXC: Counters related to ink tank replacement

T-7-74

Display	Description	Unit
INK-EXC(XX)	XX: Ink color Cumulative count of generic ink tank replacement	ml
INK-EXC(TTL)	Total amount of cumulative count of generic ink tank replacement	ml
N-INK-EXC(XX)	XX: Ink color Cumulative count of refilled ink tank replacement	ml
N-INK-EXC(TTL)	Total amount of cumulative count of refilled ink tank replacement	ml

10) MEDIA x (x: 1 to 7): Counters related to media

One to seven media types are displayed individually in order with large cumulative print area.

T-7-75

Display	Description	Unit
NAME	Media type	-
TTL	Total amount of cumulative print area of roll media and cut sheet (metric)	m2
TTL	Total amount of cumulative print area of roll media and cut sheet (inch)	Sq.f
ROLL	Cumulative print area of roll media (metric)	m2
ROLL	Cumulative print area of roll media (inch)	Sq.f
CUT SHEET	Cumulative print area of cut sheet (metric)	m2
CUT SHEET	Cumulative print area of cut sheet (inch)	Sq.f

11) MEDIA OTHER: Counters related to media

Displays the total amount of cumulative print area of the other media type than the above-mentioned

T-7-76

Display	Description	Unit
TTL	Total amount of cumulative print area of roll media and cut sheet (metric)	m2
TTL	Total amount of cumulative print area of roll media and cut sheet (inch)	Sq.f
ROLL	Cumulative print area of roll media (metric)	m2
ROLL	Cumulative print area of roll media (inch)	Sq.f
CUT SHEET	Cumulative print area of cut sheet (metric)	m2
CUT SHEET	Cumulative print area of cut sheet (inch)	Sq.f

12) MEDIASIZE1 ROLL: Counters related to roll media printing

T-7-77

Display	Description	Unit
P-SQ 24-36	Cumulative print area of paper equal to or larger than 24 inches but less than 36 inches (physical size)	m2/Sq.f
P-SQ 17-24	Cumulative print area of paper equal to or larger than 17 inches but less than 24 inches (physical size)	m2/Sq.f
P-SQ -17	Cumulative print area of paper less than 17 inches (physical size)	m2/Sq.f
P-CNT 24-36	Cumulative number of sheets of A4-equivalent paper equal to or larger than 24 inches but less than 36 inches (physical size)	sheets
P-CNT 17-24	Cumulative number of sheets of A4-equivalent paper equal to or larger than 17 inches but less than 24 inches (physical size)	sheets
P-CNT -17	Cumulative number of sheets of A4-equivalent paper less than 17 inches (physical size)	sheets

13) MEDIASIZE2 ROLL: Counters related to roll media printing

T-7-78

Display	Description	Unit
D-SQ 24-36	Cumulative print area of paper equal to or larger than 24 inches but less than 36 inches (data size)	m2/Sq.f
D-SQ 17-24	Cumulative print area of paper equal to or larger than 17 inches but less than 24 inches (data size)	m2/Sq.f
D-SQ -17	Cumulative print area of paper less than 17 inches (data size)	m2/Sq.f
D-CNT 24-36	Cumulative number of sheets of A4-equivalent paper equal to or larger than 24 inches but less than 36 inches (data size)	sheets
D-CNT 17-24	Cumulative number of sheets of A4-equivalent paper equal to or larger than 17 inches but less than 24 inches (data size)	sheets
D-CNT -17	Cumulative number of sheets of A4-equivalent paper less than 17 inches (data size)	sheets

14) MEDIASIZE1 CUT: Counters related to cut sheet printing

T-7-79

Display	Description	Unit
P-SQ 24-36	Cumulative print area of paper equal to or larger than 24 inches but less than 36 inches (physical size)	m2/Sq.f
P-SQ 17-24	Cumulative print area of paper equal to or larger than 17 inches but less than 24 inches (physical size)	m2/Sq.f
P-SQ -17	Cumulative print area of paper less than 17 inches (physical size)	m2/Sq.f
P-CNT 24-36	Cumulative number of sheets of A4-equivalent paper equal to or larger than 24 inches but less than 36 inches (physical size)	sheets
P-CNT 17-24	Cumulative number of sheets of A4-equivalent paper equal to or larger than 17 inches but less than 24 inches (physical size)	sheets
P-CNT -17	Cumulative number of sheets of A4-equivalent paper less than 17 inches (physical size)	sheets

15) MEDIASIZE2 CUT: Counters related to cut sheet printing

T-7-80

Display	Description	Unit
D-SQ 24-36	Cumulative print area of paper equal to or larger than 24 inches but less than 36 inches (data size)	m2/Sq.f
D-SQ 17-24	Cumulative print area of paper equal to or larger than 17 inches but less than 24 inches (data size)	m2/Sq.f
D-SQ -17	Cumulative print area of paper less than 17 inches (data size)	m2/Sq.f
D-CNT 24-36	Cumulative number of sheets of A4-equivalent paper equal to or larger than 24 inches but less than 36 inches (data size)	sheets
D-CNT 17-24	Cumulative number of sheets of A4-equivalent paper equal to or larger than 17 inches but less than 24 inches (data size)	sheets
D-CNT -17	Cumulative number of sheets of A4-equivalent paper less than 17 inches (data size)	sheets

16) HEAD DOT CNT.1: Counter related to dot count

T-7-81

Display	Description	Unit
XX	XX: Ink color Dot counts of each colors of the currently installed printhead	(x 1,000,000) dots
TTL	Total dot counts of each colors of the currently installed printhead	(x 1,000,000) dots

17) HEAD DOT CNT.2: Counter related to dot count

T-7-82

Display	Description	Unit
XX	XX: Ink color Cumulative dot counts of each colors	(x 1,000,000) dots
TTL	Total cumulative dot counts of each colors	(x 1,000,000) dots

18) PARTS CNT. : Counter related to consumable parts

T-7-83

Display	Description	Unit
COUNTER x	<p>x: Unit number of consumable parts (For detail, refer to "Maintenance and Inspection" > "Consumable Parts")</p> <p>Display the status and the days passed since the counter resetting.</p> <p>- Status</p> <p>OK: Use rate (until part replacement) of all consumable parts included in each unit are below 90%.</p> <p>W1: Use rate (until part replacement) of either of the consumable parts included in each unit has reached 90% or more.</p> <p>W2: Use rate (until part replacement) of either of the consumable parts included in each unit has reached 100%, but no need to stop the printer.</p> <p>E : Use rate (until part replacement) of either of the consumable parts included in each unit has reached 100%, and the printer needs to be stopped.</p>	Day(s)
PARTS yy	1: yy: Unit number of consumable parts (For detail, refer to "Maintenance and Inspection" > "Consumable Parts") Counter of the consumable part (current)	
	2: Life of the consumable part	
	3: Use rate until part replacement	%
	4: Counter of the consumable part (accumulate)	

f) SETTING

Make various settings.

1) Pth

Turn on or off the head pulse rank control function.

Default: OFF

2) RTC

Set RTC (real time clock) after replacing the lithium battery on the main controller PCB.

T-7-84

Display		Description
DATE	yyyy/mm/dd	Set date
TIME	hh:mm	Set time

3) PV AUTO JUDGE

Sets ink saver mode.

Default: OFF

g) INITIALIZE

Clear the [DISPLAY] histories, [ADJUST] settings, [COUNTER] values, and other parameters.

T-7-85

Display		Description
WARNING		Initialize the history of WARNING. (All displayed contents of [DISPLAY] > [WARNING] will be initialized.)
ERROR		Initialize the history of ERROR. (All displayed contents of [DISPLAY] > [ERROR] will be initialized.)
ADJUST		Initialize the value of band adjustment (by user) and head adjustment. The automatically adjusted value will not be initialized.
W-INK		Initialize the remaining capacity (%) of the maintenance cartridge. (Clear [COUNTER] > [PRINTER] > [W-INK])
PURGE		Initialize the counter related to purge unit. (Clear [COUNTER] > [PURGE])
INK-USE CNT		Initialize the consumption amount of ink. (Clear [COUNTER] > [INK-USE2], and count up [COUNTER] > [CLEAR] > [CLR-INK CONSUME])
CUTTER-CHG CNT		Initialize the cutter unit replacement frequency. (Clear [COUNTER] > [EXCHANGE] > [CUTTER EXC.], and count up [COUNTER] > [CLEAR] > [CLR-CUTTER EXC.]
W-INK-CHG CNT		Initialize the maintenance cartridge replacement frequency. (Clear [COUNTER] > [EXCHANGE] > [MTC EXC.], and count up [COUNTER] > [CLEAR] > [CLR-MTC EXC.]
HEAD-CHG R CNT		Initialize the printhead R replacement frequency. (Clear [COUNTER] > [EXCHANGE] > [HEAD R EXC.], and count up [COUNTER] > [CLEAR] > [CLR-HEAD R EXC.]
HEAD-CHG L CNT		Initialize the printhead L replacement frequency. (Clear [COUNTER] > [EXCHANGE] > [HEAD L EXC.], and count up [COUNTER] > [CLEAR] > [CLR-HEAD L EXC.]
HDD BOX PASS.		Initialize the BOX password of the hard disk drive to factory default.
PARTS-CHG CNT	PARTS xx	xx: Unit number of consumable parts (For details, refer to "Maintenance and Inspection" > "Consumable Parts") Initialize the consumable part replacement frequency. (Clear [COUNTER] > [EXCHANGE] > [UNIT x EXC], and count up [COUNTER] > [CLEAR] > [CLR-UNIT x EXC.]
PARTS COUNTER	PARTS xx	xx: Unit number of consumable parts (For details, refer to "Maintenance and Inspection" > "Consumable Parts") Initialize the counter amount of the consumable parts. (Clear [COUNTER] > [PARTS CNT.] > [PARTS x]) * After replacing the consumable part, be sure to execute this menu.

7.1.10 Details of Service Mode

iPF6000S

This section provides details of the Service mode menu.

a) DISPLAY

Displays and prints the printer information.

1) PRINF INF

Prints adjustment values in the User menu, [DISPLAY] and [COUNTER] parameters on A4-size or larger paper. When roll media is used, the layout is optimized according to the media width.

2) SYSTEM

Displays the printer information shown below.

T-7-86

Display	Description	Unit
S/N	Serial number of printer	-
TYPE	Type setting on main controller PCB * iPF6000S is represented by 24.	-
LF TYPE	Feed roller type: 0 or 1	-
TMP	Ambient temperature	degrees C
SIZE LF	Detected size of loaded media (feed direction) 0 is always detected for the roll media.	mm
SIZE LF	Detected size of loaded media (feed direction) 0 is always detected for the roll media.	inch
SIZE CR	Detected size of loaded media (carriage scan direction)	mm
SIZE CR	Detected size of loaded media (carriage scan direction)	inch

3) HEAD

Displays the following EEPROM information of the printhead.

T-7-87

Display	Description
S/N R	Serial number of printhead R
S/N L	Serial number of printhead L
LOT R	Lot number of printhead R
LOT L	Lot number of printhead L

4) INK

Displays the numbers of days passed since installation of the following ink tanks.

T-7-88

Display	Description	Unit
BK	Number of days passed since the BK ink tank was installed	Day(s)
MBK	Number of days passed since the MBK ink tank was installed	Day(s)
C	Number of days passed since the C ink tank was installed	Day(s)
M	Number of days passed since the M ink tank was installed	Day(s)
Y	Number of days passed since the Y ink tank was installed	Day(s)
PC	Number of days passed since the PC ink tank was installed	Day(s)
PM	Number of days passed since the PM ink tank was installed	Day(s)
GY	Number of days passed since the GY ink tank was installed	Day(s)

5) WARNING

Displays the warning history (up to 20 events). The newest event has the smallest history number.

6) ERROR

Displays the error history (up to 20 events). The newest event has the smallest history number.

7) INK CHECK

Displays the number of times the remaining ink level detection function was turned off, to accommodate refilled ink cartridges in the order of PC, C, PM, Y, GY, BK, MBK, and M.

0: Never

1: Executed at least once

c) ADJUST

Performs adjustments and prints the adjustment and check patterns necessary for adjusting the printer parts.

1) PRINT PATTERN

T-7-92

Display	Description
NOZZLE 1	Prints the nozzle check pattern by single direction/ single pass without using the non-discharging back up. It is used to check for the non-discharging nozzles. - Media size: A4 - Media type: any
OPTICAL AXIS	Prints the pattern and adjusts the optical axis of the multi sensor. For details, refer to "Disassembly/Reassembly" > "Adjustment and Setup Items" > "Procedure after replacing the carriage unit or multi sensor". - Media type: photo glossy paper
LF & HAKUSHA	* For Factory
SENSOR CHECK	* For Factory



LF & HAKUSYA and SENSOR CHECK are intended for factory adjustment purposes.
No adjustment by service personnel is required.

2) HEAD ADJ.

Set or initialize the registration adjustment values of each printheads.

T-7-93

Display		Description
AUTO HEAD ADJ	ROUGH	Prints the pattern for auto head adjustment (rough adjustment).
MANUAL HEAD ADJ	DETAIL	Prints the detail patterns for the manual head adjustment. After printing, the mode will change to [ADJ. SETTING]. Check the printed patterns and input the set values.
	BASIC	Prints the basic patterns for the manual head adjustment. After printing, the mode will change to [ADJ. SETTING]. Check the printed patterns and input the set values.
ADJ. SETTING	A to F	This mode is to input the registration adjustment values. It is possible to return the values to the former one by printing the status print before changing the value.
	A-1 to F-2	
	SAVE SETTINGS	Save the registration adjustment values that has been input.
RESET SETTINGS		Initialize the registration adjustment values (to 0).

3) NOZZLE CHK POS.

This mode is for adjusting the optical axis of the head management sensor. For details, refer to "Disassembly/Reassembly" > "Adjustment and Setup Items" > "Procedure after replacing the head management sensor".

4) GAP CLIB.

This mode measures the gap between the printhead and media by using the multi sensor and corrects the calibration value.

d) REPLACE

1) CUTTER

This mode is for replacing the cutter unit.

2) L&R PRINTHEADS

Replaces printheads L and R.

e) COUNTER

Displays the life (operation frequency and time) of each unit, print counts for each media type, and else. The count values can be printed from [PRINT INF].

1) PRINTER: Counters related to product life

T-7-94

Display	Description	Unit
LIFE TTL	Cumulative number of printed media (equivalent of A4)	sheets
LIFE ROLL	Cumulative number of printed roll media (equivalent of A4)	sheets
LIFE CUTSHEET	Cumulative number of printed cut sheets (equivalent to A4)	sheets
LIFE A-F	Cumulative number of printed media for environments A to F	sheets
POWER ON	Cumulative power-on time (excluding the sleep time)	Hours
W-INK	Remaining capacity of the maintenance cartridge	%
CUTTER	Number of cutting operations (count as 1 by moving back and forth)	Times
WIPE	Number of wiping operations	Times

2) CARRIAGE: Counters related to carriage unit

T-7-95

Display	Description	Unit
PRINT	Cumulative printing time	Hours
CR COUNT	Cumulative carriage scan count (count as 1 by moving back and forth)	Times
CR DIST.	Cumulative carriage scan distance (count as 1 by moving 210mm)	Times
PRINT COUNT	Cumulative print end count (count as 1 by capping)	Times

3) PURGE: Counters related to purge unit

T-7-96

Display	Description	Unit
CLN-A-1	Cumulative number of automatic cleaning 1 (normal suction) operations	Times
CLN-A-2	Cumulative number of automatic cleaning 2 (ink level adjusting) operations	Times
CLN-A-3	Cumulative number of automatic cleaning 3 (initial filling) operations	Times
CLN-A-6	Cumulative number of automatic cleaning 6 (strong normal suction) operations	Times
CLN-A-7	Cumulative number of automatic cleaning 7 (aging) operations	
CLN-A-10	Cumulative number of automatic cleaning 10 (ink filling after secondary transportation) operations	Times
CLN-A-11	Cumulative number of automatic cleaning 11 (ink filling after head replacement) operations	Times
CLN-A-15	Cumulative number of automatic cleaning 15 (dot count small suction) operations	Times
CLN-A-16	Cumulative number of automatic cleaning 16 (sedimented ink agitation) operations	Times
CLN-A-17	Cumulative number of automatic cleaning 17 (small suction) operations	Times
CLN-A-TTL	Total number of automatic cleaning operations	Times
CLN-M-1	Cumulative number of manual cleaning 1 (normal suction) operations	Times
CLN-M-4	Cumulative number of manual cleaning 4 (ink draining from head after head replacement) operations	Times
CLN-M-5	Cumulative number of manual cleaning 5 (ink draining from head and tube before transportation) operations	Times
CLN-M-6	Cumulative number of manual cleaning 6 (normal strong suction) operations	Times
CLN-M-TTL	Total number of manual cleaning operations	Times

4) CLEAR: Counters related to counter initialization

T-7-97

Display	Description	Unit
CLR-INK CONSUME	Cumulative count of ink section consumption amount clearing	Times
CLR-CUTTER EXC.	Cumulative count of cutter replacement count clearing	Times
CLR-MTC EXC.	Cumulative count of maintenance cartridge replacement count clearing	Times
CLR-HEAD R EXC.	Cumulative count of printhead R replacement count clearing	Times
CLR-HEAD L EXC.	Cumulative count of printhead L replacement count clearing	Times
CLR-UNIT A EXC.	Cumulative count of unit A(waste ink system) replacement count clearing	Times
CLR-UNIT B EXC.	Cumulative count of unit B(platen duct) replacement count clearing	Times
CLR-UNIT D EXC.	Cumulative count of unit D(carriage unit) replacement count clearing	Times
CLR-UNIT F EXC.	Cumulative count of unit F(ink supply system) replacement count clearing	Times
CLR-UNIT H EXC.	Cumulative count of unit H(purge) replacement count clearing	Times
CLR-UNIT L EXC.	Cumulative count of unit L(head management sensor) replacement count clearing	Times
CLR-UNIT P EXC.	Cumulative count of unit P(feed motor) replacement count clearing	Times
CLR-UNIT V EXC.	Cumulative count of unit V(mist fan unit) replacement count clearing	Times
CLR-UNIT X EXC.	Cumulative count of unit X(multi sensor) replacement count clearing	Times
CLR-FACTORY CNT.	For factory	Times

5) EXCHANGE: Counters related to parts replacement

T-7-98

Display	Description	Unit
CUTTER EXC.	Cutter replacement count (Count of executing cutter replacement mode)	Times
MTC EXC.	Maintenance cartridge replacement count	Times
HEAD R EXC.	Printhead R replacement count	Times
HEAD L EXC.	Printhead L replacement count	Times
BOARD EXC.(M/B)	Main controller PCB replacement count	Times
UNIT A EXC.	Unit A (waste ink system) replacement count (Count of executing [INITIALIZE] > [PARTS COUNTER] > [PARTS A])	Times
UNIT B EXC.	Unit B (waste ink system) replacement count (Count of executing [INITIALIZE] > [PARTS COUNTER] > [PARTS B])	Times
UNIT D EXC.	Unit D (carriage unit) replacement count (Count of executing [INITIALIZE] > [PARTS COUNTER] > [PARTS D])	Times
UNIT F EXC.	Unit F (ink supply system) replacement count (Count of executing [INITIALIZE] > [PARTS COUNTER] > [PARTS F])	Times
UNIT H EXC.	Unit H (purge unit) replacement count (Count of executing [INITIALIZE] > [PARTS COUNTER] > [PARTS H])	Times
UNIT L EXC.	Unit L (head management sensor) replacement count (Count of executing [INITIALIZE] > [PARTS COUNTER] > [PARTS L])	Times
UNIT P EXC.	Unit P (feed unit) replacement count (Count of executing [INITIALIZE] > [PARTS COUNTER] > [PARTS P])	Times
UNIT V EXC.	Unit V(mist fan unit) replacement count (Count of executing [INITIALIZE] > [PARTS COUNTER] > [PARTS V])	Times
UNIT X EXC.	Unit X(multi sensor) replacement count (Count of executing [INITIALIZE] > [PARTS COUNTER] > [PARTS X])	Times

6) DETAIL-CNT: Other counters

T-7-99

Display	Description	Unit
MOVE PRINTER	Count of [Move Printer] operations	Times
N-INKCHK(XX)	XX: Ink color Count of turning off the ink remaining level detection for each color	Times
MEDIACONFIG-CNT	Count of media registered by media editor	Times

7) INK-USE1: Counters related to ink consumption

T-7-100

Display	Description	Unit
INK-USE1(XX)	XX: Ink color Cumulative consumption amount of generic ink	ml
INK-USE1(TTL)	Total amount of cumulative consumption of generic ink	ml
N-INK-USE1(XX)	XX: Ink color Cumulative consumption amount of refilled ink	ml
N-INK-USE1(TTL)	Total amount of cumulative consumption of refilled ink	ml

8) INK-USE2: Counters related to ink consumption

T-7-101

Display	Description	Unit
INK-USE2(XX)	XX: Ink color Consumption amount of generic ink of the currently installed ink tank.	ml
INK-USE2(TTL)	Total consumption amount of generic ink of the currently installed ink tanks	ml
N-INK-USE2(XX)	XX: Ink color Consumption amount of refilled ink of the currently installed ink tank	ml
N-INK-USE2(TTL)	Total consumption amount of refilled ink of the currently installed ink tanks	ml

9) INK-EXC: Counters related to ink tank replacement

T-7-102

Display	Description	Unit
INK-EXC(XX)	XX: Ink color Cumulative count of generic ink tank replacement	ml
INK-EXC(TTL)	Total amount of cumulative count of generic ink tank replacement	ml
N-INK-EXC(XX)	XX: Ink color Cumulative count of refilled ink tank replacement	ml
N-INK-EXC(TTL)	Total amount of cumulative count of refilled ink tank replacement	ml

10) MEDIA x (x: 1 to 7): Counters related to media

One to seven media types are displayed individually in order with large cumulative print area.

T-7-103

Display	Description	Unit
NAME	Media type	-
TTL	Total amount of cumulative print area of roll media and cut sheet (metric)	m2
TTL	Total amount of cumulative print area of roll media and cut sheet (inch)	Sq.f
ROLL	Cumulative print area of roll media (metric)	m2
ROLL	Cumulative print area of roll media (inch)	Sq.f
CUT SHEET	Cumulative print area of cut sheet (metric)	m2
CUT SHEET	Cumulative print area of cut sheet (inch)	Sq.f

11) MEDIA OTHER: Counters related to media

Displays the total amount of cumulative print area of the other media type than the above-mentioned

T-7-104

Display	Description	Unit
TTL	Total amount of cumulative print area of roll media and cut sheet (metric)	m2
TTL	Total amount of cumulative print area of roll media and cut sheet (inch)	Sq.f
ROLL	Cumulative print area of roll media (metric)	m2
ROLL	Cumulative print area of roll media (inch)	Sq.f
CUT SHEET	Cumulative print area of cut sheet (metric)	m2
CUT SHEET	Cumulative print area of cut sheet (inch)	Sq.f

12) MEDIASIZE1 ROLL: Counters related to roll media printing

T-7-105

Display	Description	Unit
P-SQ 24-36	Cumulative print area of paper equal to or larger than 24 inches but less than 36 inches (physical size)	m2/Sq.f
P-SQ 17-24	Cumulative print area of paper equal to or larger than 17 inches but less than 24 inches (physical size)	m2/Sq.f
P-SQ -17	Cumulative print area of paper less than 17 inches (physical size)	m2/Sq.f
P-CNT 24-36	Cumulative number of sheets of A4-equivalent paper equal to or larger than 24 inches but less than 36 inches (physical size)	sheets
P-CNT 17-24	Cumulative number of sheets of A4-equivalent paper equal to or larger than 17 inches but less than 24 inches (physical size)	sheets
P-CNT -17	Cumulative number of sheets of A4-equivalent paper less than 17 inches (physical size)	sheets

13) MEDIASIZE2 ROLL: Counters related to roll media printing

T-7-106

Display	Description	Unit
D-SQ 24-36	Cumulative print area of paper equal to or larger than 24 inches but less than 36 inches (data size)	m2/Sq.f
D-SQ 17-24	Cumulative print area of paper equal to or larger than 17 inches but less than 24 inches (data size)	m2/Sq.f
D-SQ -17	Cumulative print area of paper less than 17 inches (data size)	m2/Sq.f
D-CNT 24-36	Cumulative number of sheets of A4-equivalent paper equal to or larger than 24 inches but less than 36 inches (data size)	sheets
D-CNT 17-24	Cumulative number of sheets of A4-equivalent paper equal to or larger than 17 inches but less than 24 inches (data size)	sheets
D-CNT -17	Cumulative number of sheets of A4-equivalent paper less than 17 inches (data size)	sheets

14) MEDIASIZE1 CUT: Counters related to cut sheet printing

T-7-107

Display	Description	Unit
P-SQ 24-36	Cumulative print area of paper equal to or larger than 24 inches but less than 36 inches (physical size)	m2/Sq.f
P-SQ 17-24	Cumulative print area of paper equal to or larger than 17 inches but less than 24 inches (physical size)	m2/Sq.f
P-SQ -17	Cumulative print area of paper less than 17 inches (physical size)	m2/Sq.f
P-CNT 24-36	Cumulative number of sheets of A4-equivalent paper equal to or larger than 24 inches but less than 36 inches (physical size)	sheets
P-CNT 17-24	Cumulative number of sheets of A4-equivalent paper equal to or larger than 17 inches but less than 24 inches (physical size)	sheets
P-CNT -17	Cumulative number of sheets of A4-equivalent paper less than 17 inches (physical size)	sheets

15) MEDIASIZE2 CUT: Counters related to cut sheet printing

T-7-108

Display	Description	Unit
D-SQ 24-36	Cumulative print area of paper equal to or larger than 24 inches but less than 36 inches (data size)	m2/Sq.f
D-SQ 17-24	Cumulative print area of paper equal to or larger than 17 inches but less than 24 inches (data size)	m2/Sq.f
D-SQ -17	Cumulative print area of paper less than 17 inches (data size)	m2/Sq.f
D-CNT 24-36	Cumulative number of sheets of A4-equivalent paper equal to or larger than 24 inches but less than 36 inches (data size)	sheets
D-CNT 17-24	Cumulative number of sheets of A4-equivalent paper equal to or larger than 17 inches but less than 24 inches (data size)	sheets
D-CNT -17	Cumulative number of sheets of A4-equivalent paper less than 17 inches (data size)	sheets

16) HEAD DOT CNT.1: Counter related to dot count

T-7-109

Display	Description	Unit
XX	XX: Ink color Dot counts of each colors of the currently installed printhead	(x 1,000,000) dots
TTL	Total dot counts of each colors of the currently installed printhead	(x 1,000,000) dots

17) HEAD DOT CNT.2: Counter related to dot count

T-7-110

Display	Description	Unit
XX	XX: Ink color Cumulative dot counts of each colors	(x 1,000,000) dots
TTL	Total cumulative dot counts of each colors	(x 1,000,000) dots

18) PARTS CNT. : Counter related to consumable parts

T-7-111

Display	Description	Unit
COUNTER x	<p>x: Unit number of consumable parts (For detail, refer to "Maintenance and Inspection" > "Consumable Parts")</p> <p>Display the status and the days passed since the counter resetting.</p> <p>- Status</p> <p>OK: Use rate (until part replacement) of all consumable parts included in each unit are below 90%.</p> <p>W1: Use rate (until part replacement) of either of the consumable parts included in each unit has reached 90% or more.</p> <p>W2: Use rate (until part replacement) of either of the consumable parts included in each unit has reached 100%, but no need to stop the printer.</p> <p>E : Use rate (until part replacement) of either of the consumable parts included in each unit has reached 100%, and the printer needs to be stopped.</p>	Day(s)
PARTS yy	1: yy: Unit number of consumable parts (For detail, refer to "Maintenance and Inspection" > "Consumable Parts") Counter of the consumable part (current)	
	2: Life of the consumable part	
	3: Use rate until part replacement	%
	4: Counter of the consumable part (accumulate)	

f) SETTING

Make various settings.

1) Pth

Turn on or off the head pulse rank control function.

Default: OFF

2) RTC

Set RTC (real time clock) after replacing the lithium battery on the main controller PCB.

T-7-112

Display		Description
DATE	yyyy/mm/dd	Set date
TIME	hh:mm	Set time

3) PV AUTO JUDGE

Sets ink saver mode.

Default: OFF

g) INITIALIZE

Clear the [DISPLAY] histories, [ADJUST] settings, [COUNTER] values, and other parameters.

T-7-113

Display		Description
WARNING		Initialize the history of WARNING. (All displayed contents of [DISPLAY] > [WARNING] will be initialized.)
ERROR		Initialize the history of ERROR. (All displayed contents of [DISPLAY] > [ERROR] will be initialized.)
ADJUST		Initialize the value of band adjustment (by user) and head adjustment. The automatically adjusted value will not be initialized.
W-INK		Initialize the remaining capacity (%) of the maintenance cartridge. (Clear [COUNTER] > [PRINTER] > [W-INK])
PURGE		Initialize the counter related to purge unit. (Clear [COUNTER] > [PURGE])
INK-USE CNT		Initialize the consumption amount of ink. (Clear [COUNTER] > [INK-USE2], and count up [COUNTER] > [CLEAR] > [CLR-INK CONSUME])
CUTTER-CHG CNT		Initialize the cutter unit replacement frequency. (Clear [COUNTER] > [EXCHANGE] > [CUTTER EXC.], and count up [COUNTER] > [CLEAR] > [CLR-CUTTER EXC.]
W-INK-CHG CNT		Initialize the maintenance cartridge replacement frequency. (Clear [COUNTER] > [EXCHANGE] > [MTC EXC.], and count up [COUNTER] > [CLEAR] > [CLR-MTC EXC.]
HEAD-CHG R CNT		Initialize the printhead R replacement frequency. (Clear [COUNTER] > [EXCHANGE] > [HEAD R EXC.], and count up [COUNTER] > [CLEAR] > [CLR-HEAD R EXC.]
HEAD-CHG L CNT		Initialize the printhead L replacement frequency. (Clear [COUNTER] > [EXCHANGE] > [HEAD L EXC.], and count up [COUNTER] > [CLEAR] > [CLR-HEAD L EXC.]
HDD BOX PASS.		Initialize the BOX password of the hard disk drive to factory default.
PARTS-CHG CNT	PARTS xx	xx: Unit number of consumable parts (For details, refer to "Maintenance and Inspection" > "Consumable Parts") Initialize the consumable part replacement frequency. (Clear [COUNTER] > [EXCHANGE] > [UNIT x EXC], and count up [COUNTER] > [CLEAR] > [CLR-UNIT x EXC.]
PARTS COUNTER	PARTS xx	xx: Unit number of consumable parts (For details, refer to "Maintenance and Inspection" > "Consumable Parts") Initialize the counter amount of the consumable parts. (Clear [COUNTER] > [PARTS CNT.] > [PARTS x]) * After replacing the consumable part, be sure to execute this menu.

7.1.11 Details of Service Mode

iPF6300 / iPF6350

This section provides details of the Service mode menu.

a) DISPLAY

Displays and prints the printer information.

1) PRINF INF

Prints adjustment values in the User menu, [DISPLAY] and [COUNTER] parameters on A4-size or larger paper. When roll media is used, the layout is optimized according to the media width.

2) SYSTEM

Displays the printer information shown below.

T-7-114

Display	Description	Unit
S/N	Serial number of printer	-
TYPE	Type setting on main controller PCB * iPF6350/6300 are represented by 24".	-
LF TYPE	Feed roller type: 0 or 1	-
TMP	Ambient temperature	centigrade degrees
RH	Ambient humidity	%
SIZE LF	Detected size of loaded media (feed direction) 0 is always detected for the roll media.	mm/inch
SIZE CR	Detected size of loaded media (carriage scan direction)	mm/inch
AFTER INST.	Number of days since initial installation	Days

3) HEAD

Displays the following EEPROM information of the printhead.

T-7-115

Display	Description
S/N R	Serial number of printhead R
S/N L	Serial number of printhead L
LOT R	Lot number of printhead R
LOT L	Lot number of printhead L

4) INK

Displays the numbers of days passed since installation of the following ink tanks.

T-7-116

Display	Description	Unit
BK	Number of days passed since the BK ink tank was installed	Day(s)
MBK	Number of days passed since the MBK ink tank was installed	Day(s)
C	Number of days passed since the C ink tank was installed	Day(s)
M	Number of days passed since the M ink tank was installed	Day(s)
Y	Number of days passed since the Y ink tank was installed	Day(s)
PC	Number of days passed since the PC ink tank was installed	Day(s)
PM	Number of days passed since the PM ink tank was installed	Day(s)
GY	Number of days passed since the GY ink tank was installed	Day(s)
PGY	Number of days passed since the PGY ink tank was installed	Day(s)
R	Number of days passed since the R ink tank was installed	Day(s)
G	Number of days passed since the G ink tank was installed	Day(s)
B	Number of days passed since the B ink tank was installed	Day(s)

5) WARNING

Displays the warning history (up to 20 events). The newest event has the smallest history number.

6) ERROR

Displays the error history (up to 20 events). The newest event has the smallest history number.

7) JAM

Displays log of jams that have occurred (up to five events). The newest event has the smallest history number.

Indicates the date and time of jam and error code. "0000" is displayed if there is no log.

```

0 1      M M / D D   H H : M M
X X X X - X X X X
    
```

F-7-1

Press the ▼ key to display detail information.

Press the ◀ key or ▶ key to navigate among detail information display 1 to 4.

Detail information display 1

```

J A M   0 1
1 : X X X X X X X X X X
      1 2 3 4 5 6 7 8 9 10
    
```

F-7-2

Detail information display 2

```

J A M   0 1
2 : X X X X X X X X X
      11
    
```

F-7-3

Detail information display 3

```

J A M   0 1
3 : X X X X
      12
    
```

F-7-4

Detail information display 4

```

J A M   0 1
4 : X X X X X X X X
      13
    
```

F-7-5

T-7-117

Display	Description	LCD display contents
1	Jam type	1:Carriage error, 2:Jam, 3:Feed failure (delay), 4:Cut failure, *:Unknown
2	Media	1:Roll media, 2:Cut sheet (manual feed from top), 3:Cut sheet (manual feed from front), 4:Cassette, *:Unknown
3	Jam timing	1:Feed, 2:Print, 3:Eject, *:Unknown
4	Media width detection	1:ON, 2:OFF, *:Unknown
5	Head height	0:SL (1.0mm), 1:L (1.4mm), 2:M1 (1.8mm), 3:M2 (2.0mm), 4:M3 (2.2mm), 5:H (3.2mm), *:Unknown
6	(Not Used)	-
7	(Not Used)	-
8	Environment	Display Media Information Tool's environment settings A to F according to Temperature/Humidity Detection Sensor 0: A, 1:B, 2:C, 3:D, 4:E, 5:F, *:Unknown
9	Borderless printing setting	1:Borderless printing, 2:Borderless printing, *:Unknown
10	Spur position	1:Top, 2:Down, *:Unknown
11	Print mode	Display print mode, *:Unknown
12	Media width	Display media width, *:Unknown
13	Media name	Display media name, *:Unknown

8) INK CHECK

Displays the number of times the remaining ink level detection function was turned off, to accommodate refilled ink cartridges in the order of Y, PC, C, PGY, GY, BK, PM, M, MBK, R, G, and B.

0: Never

1: Executed at least once

b) I/O DISPLAY

The status of each sensor and switch is shown in the display.

Sensor and switch status is shown in the display.

ON = 1

OFF or not used = 0

Screen 1

I / O D I S P L A Y 1	(Upper row)
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(Lower row)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	(Display position)

F-7-6

Screen 2

I / O D I S P L A Y 2	(Upper row)
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(Lower row)
17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32	(Display position)

F-7-7

Screen 1 and Screen 2 are selectable with the ◀ and ▶ keys.

These screens display the associated sensor status as listed in the table below.

T-7-118

Display position	Sensor name	LCD display contents
1	Pump Cam Sensor	0:Sensor ON, 1:Sensor OFF
2	Valve Open/Closed Detection Sensor	0:Sensor ON, 1:Sensor OFF
3	(Not Used)	-
4	(Not Used)	-
5	Spur Cam Sensor	0:Sensor ON, 1:Sensor OFF
6	Lift Cam Sensor	0:Sensor ON, 1:Sensor OFF
7	Feed Roller HP Sensor	0:Sensor ON, 1:Sensor OFF
8	Top Cover Sensor	0:Cover open, 1:Cover close
9	(Not Used)	-
10	Ink Tank Cover Switch	0:Cover open, 1:Cover close
11	(Not Used)	-
12	Paper Detection Sensor	0:Sensor ON, 1:Sensor OFF
13	(Not Used)	-
14	(Not Used)	-
15	(Not Used)	-
16	(Not Used)	-
17	Roll Media Sensor	0:Sensor ON, 1:Sensor OFF
18	Roll Cam Sensor	0:Sensor ON, 1:Sensor OFF
19	Cutter Lift Sensor	0:Sensor ON, 1:Sensor OFF
20	Cutter Right Position Sensor	0:Sensor ON, 1:Sensor OFF
21	Cutter HP Sensor	0:Sensor ON, 1:Sensor OFF
22	(Not Used)	-
23	(Not Used)	-
24	(Not Used)	-
25	(Not Used)	-
26	Roll unit detection	0:Roll unit not detected, 1:Roll unit detected
27	(Not Used)	-
28	(Not Used)	-
29	(Not Used)	-
30	(Not Used)	-
31	(Not Used)	-
32	(Not Used)	-

c) ADJUST

Performs adjustments and prints the adjustment and check patterns necessary for adjusting the printer parts.

1) PRINT PATTERN

T-7-119

Display	Description
NOZZLE 1	Prints the nozzle check pattern by single direction/ single pass without using the non-discharging back up. It is used to check for the non-discharging nozzles. - Media size: A4 - Media type: any
OPTICAL AXIS	Prints the pattern and adjusts the optical axis of the multi sensor. For details, refer to "Disassembly/Reassembly" > "Adjustment and Setup Items" > "Procedure after replacing the carriage unit or multi sensor". - Media type: photo glossy paper

2) HEAD ADJ.

Set or initialize the registration adjustment values of each printheads.

T-7-120

Display			Description
MANUAL HEAD ADJ	EXTENSION		Prints the detail patterns for the manual head adjustment at CR SCAN SPEED 3 (25inch/sec [high printing mode]). After printing, the mode will change to [ADJ. SETTING]. Check the printed patterns and input the set values. Try adjustment in this mode if vertical lines are warped or colors are out of alignment when the printer driver option "High-Precision Printing" or "Priority on dot placement accuracy" is selected.
	DETAIL		Prints the detail patterns for the manual head adjustment at CR SCAN SPEED 4 and 5 (33.3, 40inch/sec). After printing, the mode will change to [ADJ. SETTING]. Check the printed patterns and input the set values. Try adjustment in this mode if "BASIC" does not improve printing.
	BASIC		Prints the basic patterns for the manual head adjustment at CR SCAN SPEED 1 to 5 (12.5 to 40inch/sec). After printing, the mode will change to [ADJ. SETTING]. Check the printed patterns and input the set values.
ADJ. SETTING	A to F	A-1 to F-2	This mode is to input the registration adjustment values. It is possible to return the values to the former one by printing the status print before changing the value.
	SAVE SETTINGS		Save the registration adjustment values that has been input.
RESET SETTINGS			Initialize the registration adjustment values (to 0).

3) NOZZLE CHECK POS.

This mode is for adjusting the optical axis of the head management sensor. For details, refer to "Disassembly/Reassembly" > "Adjustment and Setup Items" > "Procedure after replacing the head management sensor".

4) GAP CLIB.

This mode measures the gap between the printhead and media by using the multi sensor and corrects the calibration value.

5) CHANGE LF TYPE

Change the type of the feed roller.

0: Old feed roller
1: New feed roller

6) CR REG

Executes automatic head adjustment.

Make this adjustment if the registration remains partially misregistered after user-mode head adjustment.

EXECUTE: Execute automatic head adjustment.

RESET: Reset the registration adjustment value (0).

- Applicable media size is A2 (17inch) or larger.
- Applicable media type is photo glossy paper

If an error message appears when performing CR REG, check the following.

Replace the multi sensor if the error reoccurs after checking and performing CR REG again.

<CHECK>

1. Check for non-discharging of the printhead and dirty media, and replace the printhead and/or media if necessary.
2. Perform [Head Cleaning A].
3. Perform [Head Posi. Adj.]-[Auto].

7) CR MOTOR COG

Adjust the carriage motor rotation.

Perform in the following cases:

- When removing/attaching or replacing the carriage or carriage belt.
- When replacing the carriage motor or linear encoder sensor.
- When there is excessive load on the carriage (such as when jamming)

If the following error message appears when performing CR MOTOR COG, check that carriage and carriage belt are installed properly and clean the rail shaft. If the error still occurs, replace the carriage motor.

C R V I B R A T I O N
E R R O R

F-7-8

8) SPUR CLEANING

If white dots appear about 1mm apart in the paper feed direction, clean the spur.

Set a cleaning sheet and clean the spur following the instructions displayed on the screen.



- Do not fold the cleaning sheet.
 - Do not use a cleaning sheet with rugged edges or a significantly folded cleaning sheet.
 - If the cleaning sheet is warped, flatten it before use.
-

d) FUNCTION

1) CR UNLOCK

Unlocks the carriage.
When CR UNLOCK is performed, the carriage lock pin is lowered and the carriage can be moved.

2) CR LOCK

Locks the carriage.
When CR LOCK is performed, the carriage lock pin is raised and the carriage is locked.

3) PG CHECK

Initializes the purge unit.

4) CR AUTO SCAN

The carriage scans.
When CR AUTO SCAN is performed, the carriage scans with the count, width, and speed set with CR SCAN COUNT/CR SCAN SIZE/CR SCAN SPEED.

5) CR SCAN COUNT

Sets the number of scans (1 to 30) to be performed with CR AUTO SCAN.
Default:1

6) CR SCAN SIZE

Sets the scan width to be performed with CR AUTO SCAN.
1:A4, 2:A3, 3:A2, 4:17inch, 5:24inch
Default:5

7) CR SCAN SPEED

Sets the speed of the scan to be performed with CR AUTO SCAN.
1:12.5, 2:20.0, 3:25.0, 4:33.3, 5:40.0 (Unit: inch/sec)
Default:1

MEMO:

The settings made with CR SCAN COUNT, CR SCAN SIZE, CR SCAN SPEED are reset to default when the power is reset.

8) OPT SENS OUTPUT

Displays the values (analog value) multi sensor detected from the media.
You can confirm the amount of margin the media has with the values read with the multi sensor and the status of the multi sensor by comparing the values with the threshold.

Press the ◀ key or ▶ key to navigate among OUTPUT 0 to 5 windows.

OUTPUT 0

O U T P U T 0															
X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1	1	1	2	2	2	3	3	3		4	4	4	5	5	5
F-7-9															

OUTPUT 1

O U T P U T 1															
X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
6	6	6	7	7	7	8	8	8		9	9	9	10	10	10
F-7-10															

OUTPUT 2

O U T P U T 2															
X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
11	11	11	12	12	12	13	13	13		14	14	14	15	15	15
F-7-11															

OUTPUT 3

O U T P U T 3															
X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
16	16	16	17	17	17	18	18	18		19	19	19	20	20	20
F-7-12															

OUTPUT 4

O U T P U T 4															
X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
21	21	21	22	22	22	23	23	23		24	24	24	25	25	25
F-7-13															

OUTPUT 5

O U T P U T 5												
X	X	X	X	X	X	X	X	X	X	X	X	X
26	26	26	27	27	27	28	28	28	29	29	29	30
F-7-14												
T-7-121												

Display position	Description
1	LED (red) media output (including outside light)
2	LED (red) outside light output (when LED is OFF)
3	LED (red) platen output (excluding outside light)
4	LED (red) gain
5	-
6	LED (green) media output
7	LED (green) outside light output (including outside light)
8	LED (green) platen output (excluding outside light)
9	LED (green) gain
10	-
11	GAP1 media output (including outside light)
12	GAP1 outside light output (when LED is OFF)
13	GAP1 platen output (excluding outside light)
14	GAP1 gain
15	-
16	LED (blue) media output (including outside light)
17	LED (blue) outside light output (when LED is OFF)
18	LED (blue) platen output (excluding outside light)
19	LED (blue) gain
20	-
21	Media edge (diffuse reflection) media output (including outside light)
22	Media edge (diffuse reflection) outside light output (when LED is OFF)
23	Media edge (diffuse reflection) platen output (excluding outside light)
24	Media edge (diffuse reflection) gain
25	-
26	Media edge (regular reflection) media output (including outside light)
27	Media edge (regular reflection) outside light output (when LED is OFF)
28	Media edge (regular reflection) platen output (excluding outside light)
29	Media edge (regular reflection) gain
30	-

MEMO:

- Displays all "?" if "GAP CALIB" is not performed.
- If the value exceeds 1000, 999 is displayed.

1. Checking "OUTPUT 0" and "OUTPUT 1" when media (excluding clear film) is fed

[Check 1]

Check whether the multi sensor performance has degraded or whether the media is compatible with the multi sensor.

When "Media edge (diffuse reflection) gain" is maximum values and "Media edge (diffuse reflection) media output" is 186 or less, an error occurs.
Maximum value of "Media edge (diffuse reflection)" gain: 255

When the multi sensor and media are normal, the following values are displayed:

T-7-122

	Media edge (diffuse reflection) gain	Media edge (diffuse reflection) media output
Plain paper	About 10-35	About 500-600
Glossy paper	About 8-25	
Tracing paper	About 30-100	

[Check 2]

Check whether the multi sensor performance has degraded or whether the media is compatible with the multi sensor.

When the difference between "Media edge (diffuse reflection) gain" and "Media edge (diffuse reflection) platen output" is 100 or less, an error occurs.
When the multi sensor and media are normal, the difference is about 300-600.

[Check 3]

Check the effect of external diffuse light.

When the difference between "Media edge (diffuse reflection) external light output" and "Media edge (diffuse reflection) platen output" is 500 or more, the effect of diffuse light is judged as being great.
 When the effect is normal, the difference is about 50-300.

[Check 4]
 Check whether the media is compatible.

When the result of "Media edge (regular reflection) gain" is five times as large as the result of "Media edge (diffuse reflection) gain", the media is judged as being incompatible with the multi sensor.
 If the media is compatible, the result is about 0.5 to 1.5 times for plain/glossy paper; about 1-3 times for tracing paper.

[Check 5]
 Check whether the media is compatible.

When the result of "Media edge (diffuse reflection) gain" is in one of the following, the media may be incompatible with the multi sensor.
 - Nine or more times as large as that of plain paper
 - Ten or more times as large as that of glossy paper
 - Three or more times as large as that of tracing paper

2. Checking "OUTPUT 0" when clear film is fed

[Check 1]
 Check whether the multi sensor performance has degraded or whether the media is compatible.

When the "Media edge (regular reflection) gain" is maximum values and "Media edge (regular reflection) media output" is 186 or less, an error occurs.
 Maximum value of "media edge (regular reflection)" gain: 255

When the multi sensor and media are normal, the following values are displayed:

T-7-123

	Media edge (regular reflection) gain	Media edge (regular reflection) media output
Clear film	About 10-60	About 500-600

[Check 2]
 Check whether the multi sensor performance has degraded or whether the media is compatible.

When the difference between "Media edge (regular reflection) gain" and "Media edge (regular reflection) platen output" is 100 or less, an error occurs.
 When the multi sensor and media are normal, the difference is about 250-500.

[Check 3]
 Check the effect of external diffuse light.

When the difference between "Media edge (regular reflection) external light output" and "Media edge (regular reflection) platen output" is 500 or more, the effect of diffuse light is judged as being great.
 When the effect is normal, the difference is about 50-300.

3. Checking "OUTPUT 2/OUTPUT 3" and "OUTPUT 4/OUTPUT 5"

[Check 1]
 Check whether the multi sensor performance has degraded or whether the media is compatible.

When "GAP gain" is maximum values and "GAP media output" is 93 or less, an error occurs.
 Maximum value of "GAP gain": 255

When the multi sensor and media are normal, "GAP gain" is about 30-250.

[Check 2]
 Check whether the multi sensor performance has degraded or whether the media is compatible.

When "LED gain" is maximum values and "LED media output" is 168 or less, an error occurs.
 Maximum value of "LED gain": 255

When the multi sensor performance and media are normal, "LED gain" is about 5-100.

9) NOZZLE CHECK

Checks for non-discharging nozzle with head management sensor.

10) NOZZLE INF

Displays the result of non-discharging nozzle check performed with "NOZZLE CHECK" by nozzle row of each ink color.

- Press the ◀ key or ▶ key to switch the ink color.
- AE:A-EVEN row, AO:A-ODD row, BE:B-EVEN row, BO:B-ODD row

C	A	E	:	O	K	A	O	:	O	K
	B	E	:	O	K	B	O	:	O	K

F-7-15

11) MEMORY CHK

T-7-124

Display	Description
DDR	Checks the DDR-SDRAM mounted on the Main Controller PCB.
EEP	Checks the EEPROM.

12) HEAD CNT CHK

Confirms the contact status of the printhead.

e) REPLACE

1) CUTTER

This mode is for replacing the cutter.

2) L&R PRINTHEADS

Replaces printheads L and R.

f) COUNTER

Displays the life (operation frequency and time) of each unit, print counts for each media type, and else.

The count values can be printed from [PRINT INF].

1) PRINTER: Counters related to product life

T-7-125

Display	Description	Unit
LIFE TTL	Cumulative number of printed media (equivalent of A4)	sheets
LIFE ROLL	Cumulative number of printed roll media (equivalent of A4)	sheets
LIFE CUTSHEET	Cumulative number of printed cut sheets (equivalent to A4)	sheets
LIFE A-F	Cumulative number of printed media for environments A to F	sheets
POWER ON	Cumulative power-on time (excluding the sleep time)	Hours
W-INK	Remaining capacity of the maintenance cartridge	%
CUTTER	Number of cutting operations (count as 1 by moving back and forth)	Times
WIPE	Number of wiping operations	Times
SLEEP ON	Cumulative sleep-on time	Hours

2) CARRIAGE: Counters related to carriage unit

T-7-126

Display	Description	Unit
PRINT	Cumulative printing time	Hours
DRIVE	Cumulative carriage moving time	Hours
CR COUNT	Cumulative carriage scan count (count as 1 by moving back and forth)	Times
CR DIST.	Cumulative carriage scan distance (count as 1 by moving 210mm)	Times
PRINT COUNT	Cumulative print end count (count as 1 by capping)	Times

3) PURGE: Counters related to purge unit

T-7-127

Display	Description	Unit
CLN-A-1	Cumulative number of automatic cleaning 1 (normal suction) operations	Times
CLN-A-2	Cumulative number of automatic cleaning 2 (ink level adjusting) operations	Times
CLN-A-3	Cumulative number of automatic cleaning 3 (initial filling) operations	Times
CLN-A-6	Cumulative number of automatic cleaning 6 (strong normal suction) operations	Times
CLN-A-7	Cumulative number of automatic cleaning 7 (aging) operations	
CLN-A-10	Cumulative number of automatic cleaning 10 (ink filling after secondary transportation) operations	Times
CLN-A-11	Cumulative number of automatic cleaning 11 (ink filling after head replacement) operations	Times
CLN-A-15	Cumulative number of automatic cleaning 15 (dot count small suction) operations	Times
CLN-A-16	Cumulative number of automatic cleaning 16 (sedimented ink agitation) operations	Times
CLN-A-17	Cumulative number of automatic cleaning 17 (small suction) operations	Times
CLN-A-TTL	Total number of automatic cleaning operations	Times
CLN-M-1	Cumulative number of manual cleaning 1 (normal suction) operations	Times
CLN-M-4	Cumulative number of manual cleaning 4 (ink draining from head after head replacement) operations	Times
CLN-M-5	Cumulative number of manual cleaning 5 (ink draining from head and tube before transportation) operations	Times
CLN-M-6	Cumulative number of manual cleaning 6 (normal strong suction) operations	Times
CLN-M-TTL	Total number of manual cleaning operations	Times

4) CLEAR: Counters related to counter initialization

T-7-128

Display	Description	Unit	Remarks
CLR-INK CONSUME	Cumulative count of ink section consumption amount clearing	Times	
CLR-MTC EXC.	Cumulative count of maintenance cartridge replacement count clearing	Times	
CLR-HEAD L EXC.	Cumulative count of printhead L replacement count clearing	Times	
CLR-HEAD R EXC.	Cumulative count of printhead R replacement count clearing	Times	
CLR Wia-1 EXC.	Cumulative count of unit Wia-1(suction fan) replacement count clearing	Times	
CLR Wib-1 EXC.	Cumulative count of unit Wib-1(platen duct) replacement count clearing	Times	
CLR CR-1 EXC.	Cumulative count of unit CR-1(carriage unit bushing) replacement count clearing	Times	
CLR CR-2 EXC.	Cumulative count of unit CR-2(flexible cable unit) replacement count clearing	Times	
CLR CR-3 EXC.	Cumulative count of unit CR-3(linear encoder sensor/linear scale/shaft cleaner) replacement count clearing	Times	
CLR CR-4 EXC.	Cumulative count of unit CR-4(carriage height changing cam) replacement count clearing	Times	
CLR CR-5 EXC.	Cumulative count of unit CR-5(multi sensor) replacement count clearing	Times	
CLR SP-1 EXC.	Cumulative count of unit SP-1(ink tube unit) replacement count clearing	Times	
CLR PG-1 EXC.	Cumulative count of unit PG-1(purge unit) replacement count clearing	Times	
CLR HMa-1 EXC.	Cumulative count of unit HMa-1(head management sensor) replacement count clearing	Times	
CLR PL-1 EXC.	Cumulative count of unit PL-1(feed motor) replacement count clearing	Times	
CLR PS-1 EXC.	Cumulative count of unit PS-1(spur) replacement count clearing	Times	
CLR Mi-1 EXC.	Cumulative count of unit Mi-1(mist fan/mist filter) replacement count clearing	Times	
CLR MS-1 EXC.	Cumulative count of unit MS-1(multi sensor) replacement count clearing	Times	Calibration error index, This counter synchronizes with CLR CR-5 EXC.
CLR CT-1 EXC.	Cumulative count of unit CT-1(cutter) replacement count clearing	Times	
CLR-FACTORY CNT.	For factory	Times	

5) EXCHANGE: Counters related to parts replacement

T-7-129

Display	Description	Unit
MTC EXC.	Maintenance cartridge replacement count	Times
HEAD L EXC.	Printhead L replacement count	Times
HEAD R EXC.	Printhead R replacement count	Times
BOARD EXC.(M/B)	Main controller PCB replacement count	Times
Wia-1 EXC.	Wia-1(suction fan) replacement count (Count of executing [INITIALIZE] > [PARTS COUNTER] > [PARTS Wia-1])	Times
Wib-1 EXC.	Wib-1(platen duct) replacement count (Count of executing [INITIALIZE] > [PARTS COUNTER] > [PARTS Wib-1])	Times
CR-1 EXC.	CR-1(carriage unit bushing) replacement count (Count of executing [INITIALIZE] > [PARTS COUNTER] > [PARTS CR-1])	Times
CR-2 EXC.	CR-2(flexible cable unit) replacement count (Count of executing [INITIALIZE] > [PARTS COUNTER] > [PARTS CR-2])	Times
CR-3 EXC.	CR-3(linear encoder sensor/linear scale/shaft cleaner) replacement count (Count of executing [INITIALIZE] > [PARTS COUNTER] > [PARTS CR-3])	Times
CR-4 EXC.	CR-4(carriage height changing cam) replacement count (Count of executing [INITIALIZE] > [PARTS COUNTER] > [PARTS CR-4])	Times
CR-5 EXC.	CR-5(multi sensor) replacement count (Count of executing [INITIALIZE] > [PARTS COUNTER] > [PARTS CR-5])	Times
SP-1 EXC.	SP-1(ink tube unit) replacement count (Count of executing [INITIALIZE] > [PARTS COUNTER] > [PARTS SP-1])	Times
PG-1 EXC.	PG-1(purge unit) replacement count (Count of executing [INITIALIZE] > [PARTS COUNTER] > [PARTS PG-1])	Times
HMa-1 EXC.	HMa-1(head management sensor) replacement count (Count of executing [INITIALIZE] > [PARTS COUNTER] > [PARTS HMa-1])	Times
PL-1 EXC.	PL-1(feed motor) replacement count (Count of executing [INITIALIZE] > [PARTS COUNTER] > [PARTS PL-1])	Times
PS-1 EXC.	PS-1(spur) replacement count (Count of executing [INITIALIZE] > [PARTS COUNTER] > [PARTS PS-1])	Times
Mi-1 EXC.	Mi-1(mist fan/mist filter) replacement count (Count of executing [INITIALIZE] > [PARTS COUNTER] > [PARTS Mi-1])	Times
MS-1 EXC.	MS-1(multi sensor) replacement count (Count of executing [INITIALIZE] > [PARTS COUNTER] > [PARTS MS-1])	Times
CT-1 EXC.	CT-1(cutter) replacement count (Count of executing [INITIALIZE] > [PARTS COUNTER] > [PARTS CT-1])	Times

6) DETAIL-CNT: Other counters

T-7-130

Display	Description	Unit
MOVE PRINTER	Number of times "Prep.MovePrinter" on Main menu is executed.	Times
N-INKCHK(XX)	XX: Ink color Count of turning off the ink remaining level detection for each color	Times
MEDIACONFIG-CNT	Count of media registered by media editor	Times

7) INK-USE1: Counters related to ink consumption

T-7-131

Display	Description	Unit
INK-USE1(XX)	XX: Ink color Cumulative consumption amount of generic ink	ml
INK-USE1(TTL)	Total amount of cumulative consumption of generic ink	ml
N-INK-USE1(XX)	XX: Ink color Cumulative consumption amount of refilled ink	ml
N-INK-USE1(TTL)	Total amount of cumulative consumption of refilled ink	ml

8) INK-USE2: Counters related to ink consumption

T-7-132

Display	Description	Unit
INK-USE2(XX)	XX: Ink color Consumption amount of generic ink of the currently installed ink tank.	ml
INK-USE2(TTL)	Total consumption amount of generic ink of the currently installed ink tanks	ml
N-INK-USE2(XX)	XX: Ink color Consumption amount of refilled ink of the currently installed ink tank	ml
N-INK-USE2(TTL)	Total consumption amount of refilled ink of the currently installed ink tanks	ml

9) INK-EXC: Counters related to ink tank replacement

T-7-133

Display	Description	Unit
INK-EXC(XX)	XX: Ink color Cumulative count of generic ink tank replacement	ml
INK-EXC(TTL)	Total amount of cumulative count of generic ink tank replacement	ml
N-INK-EXC(XX)	XX: Ink color Cumulative count of refilled ink tank replacement	ml
N-INK-EXC(TTL)	Total amount of cumulative count of refilled ink tank replacement	ml

10) MEDIA x (x: 1 to 7): Counters related to media

One to seven media types are displayed individually in order with large cumulative print area.

T-7-134

Display	Description	Unit
NAME	Media type	-
TTL	Total amount of cumulative print area of roll media and cut sheet (metric)	Sq.m
TTL	Total amount of cumulative print area of roll media and cut sheet (inch)	Sq.f
ROLL	Cumulative print area of roll media (metric)	Sq.m
ROLL	Cumulative print area of roll media (inch)	Sq.f
CUT SHEET	Cumulative print area of cut sheet (metric)	Sq.m
CUT SHEET	Cumulative print area of cut sheet (inch)	Sq.f

11) MEDIA OTHER: Counters related to media

Displays the total amount of cumulative print area of the other media type than the above-mentioned

T-7-135

Display	Description	Unit
NAME	Media type	-
TTL	Total amount of cumulative print area of roll media and cut sheet (metric)	Sq.m
TTL	Total amount of cumulative print area of roll media and cut sheet (inch)	Sq.f
ROLL	Cumulative print area of roll media (metric)	Sq.m
ROLL	Cumulative print area of roll media (inch)	Sq.f
CUT SHEET	Cumulative print area of cut sheet (metric)	Sq.m
CUT SHEET	Cumulative print area of cut sheet (inch)	Sq.f

12) MEDIASIZE1 ROLL: Counters related to roll media printing

T-7-136

Display	Description	Unit
P-SQ 24-36	Cumulative print area of paper equal to or larger than 24 inches but less than 36 inches (physical size)	Sq.m/Sq.f
P-SQ 17-24	Cumulative print area of paper equal to or larger than 17 inches but less than 24 inches (physical size)	Sq.m/Sq.f
P-SQ -17	Cumulative print area of paper less than 17 inches (physical size)	Sq.m/Sq.f
P-CNT 24-36	Cumulative number of sheets of A4-equivalent paper equal to or larger than 24 inches but less than 36 inches (physical size)	sheets
P-CNT 17-24	Cumulative number of sheets of A4-equivalent paper equal to or larger than 17 inches but less than 24 inches (physical size)	sheets
P-CNT -17	Cumulative number of sheets of A4-equivalent paper less than 17 inches (physical size)	sheets

13) MEDIASIZE2 ROLL: Counters related to roll media printing

T-7-137

Display	Description	Unit
D-SQ 24-36	Cumulative print area of paper equal to or larger than 24 inches but less than 36 inches (data size)	Sq.m/Sq.f
D-SQ 17-24	Cumulative print area of paper equal to or larger than 17 inches but less than 24 inches (data size)	Sq.m/Sq.f
D-SQ -17	Cumulative print area of paper less than 17 inches (data size)	Sq.m/Sq.f
D-CNT 24-36	Cumulative number of sheets of A4-equivalent paper equal to or larger than 24 inches but less than 36 inches (data size)	sheets
D-CNT 17-24	Cumulative number of sheets of A4-equivalent paper equal to or larger than 17 inches but less than 24 inches (data size)	sheets
D-CNT -17	Cumulative number of sheets of A4-equivalent paper less than 17 inches (data size)	sheets

14) MEDIASIZE1 CUT: Counters related to cut sheet printing

T-7-138

Display	Description	Unit
P-SQ 24-36	Cumulative print area of paper equal to or larger than 24 inches but less than 36 inches (physical size)	Sq.m/Sq.f
P-SQ 17-24	Cumulative print area of paper equal to or larger than 17 inches but less than 24 inches (physical size)	Sq.m/Sq.f
P-SQ -17	Cumulative print area of paper less than 17 inches (physical size)	Sq.m/Sq.f
P-CNT 24-36	Cumulative number of sheets of A4-equivalent paper equal to or larger than 24 inches but less than 36 inches (physical size)	sheets
P-CNT 17-24	Cumulative number of sheets of A4-equivalent paper equal to or larger than 17 inches but less than 24 inches (physical size)	sheets
P-CNT -17	Cumulative number of sheets of A4-equivalent paper less than 17 inches (physical size)	sheets

15) MEDIASIZE2 CUT: Counters related to cut sheet printing

T-7-139

Display	Description	Unit
D-SQ 24-36	Cumulative print area of paper equal to or larger than 24 inches but less than 36 inches (data size)	Sq.m/Sq.f
D-SQ 17-24	Cumulative print area of paper equal to or larger than 17 inches but less than 24 inches (data size)	Sq.m/Sq.f
D-SQ -17	Cumulative print area of paper less than 17 inches (data size)	Sq.m/Sq.f
D-CNT 24-36	Cumulative number of sheets of A4-equivalent paper equal to or larger than 24 inches but less than 36 inches (data size)	sheets
D-CNT 17-24	Cumulative number of sheets of A4-equivalent paper equal to or larger than 17 inches but less than 24 inches (data size)	sheets
D-CNT -17	Cumulative number of sheets of A4-equivalent paper less than 17 inches (data size)	sheets

16) HEAD DOT CNT.1: Counter related to dot count

T-7-140

Display	Description	Unit
XX	XX: Ink color Dot counts of each colors of the currently installed printhead	(x 1,000,000) dots
TTL	Total dot counts of each colors of the currently installed printhead	(x 1,000,000) dots

17) HEAD DOT CNT.2: Counter related to dot count

T-7-141

Display	Description	Unit
XX	XX: Ink color Cumulative dot counts of each colors	(x 1,000,000) dots
TTL	Total cumulative dot counts of each colors	(x 1,000,000) dots

18) PARTS CNT. : Counter related to consumable parts

```
C O U N T E R   C R - 1
a a                               b b b b b
```

F-7-16

The displays are selectable with the ◀ and ▶ keys.
Counter of the consumable part (current)

```
C O U N T E R   C R - 1
1 :                               x x x x x
```

F-7-17

Life of the consumable part

```
C O U N T E R   C R - 1
2 :                               x x x x x
```

F-7-18

Use rate until part replacement

```
C O U N T E R   C R - 1
3 :                               x x x %
```

F-7-19

Counter of the consumable part (accumulate)

```
C O U N T E R   C R - 1
4 :                               x x x x x
```

F-7-20

T-7-142

Display	Description	Unit
COUNTER xx-x	xx-x: Unit number of consumable parts (For detail, refer to "Maintenance and Inspection" > "Consumable Parts") Display the status (aa) and the days passed since the counter (bbbb) resetting. - Status - OK: Use rate (until part replacement) of all consumable parts included in each unit are below 90%. - W1: Use rate (until part replacement) of either of the consumable parts included in each unit has reached 90% or more. - W2: Use rate (until part replacement) of either of the consumable parts included in each unit has reached 100%, but no need to stop the printer. - E : Use rate (until part replacement) of either of the consumable parts included in each unit has reached 100%, and the printer needs to be stopped.	Days
1:	Unit number of consumable parts Counter of the consumable part (current)	
2:	Life of the consumable part	
3:	Use rate until part replacement	%
4:	Counter of the consumable part (accumulate)	

g) SETTING

Make various settings.

1) Pth

Turn on or off the head pulse rank control function.

Default: OFF

2) RTC

Set RTC (real time clock) after replacing the lithium battery on the main controller PCB.

T-7-143

	Display	Description
DATE	yyyy/mm/dd	Set date
TIME	hh:mm	Set time

3) PV AUTO JUDGE

Sets ink saver mode.

Default: OFF

4) NETWORK

See "e-maintenance/imageWARE Remote" for detail.

5) E-RDS

See "e-maintenance/imageWARE Remote" for detail.

6) HEAD DOT INF

Set whether to turn ON/OFF displaying of message as the result of non-discharging nozzle detection.

Default: OFF

T-7-144

Number of non-discharging nozzle (nozzle/2,560-nozzles)	ON	OFF
0-99	Displays a message to check the printing.	-
100-319	Displays a message to check the head.	-
320 or more	Displays a message to replace the head.	-

h) INITIALIZE

Clear the [DISPLAY] histories, [ADJUST] settings, [COUNTER] values, and other parameters.

T-7-145

Display	Description	
WARNING	Initialize the history of WARNING. (All displayed contents of [DISPLAY] > [WARNING] will be initialized.)	
ERROR	Initialize the history of ERROR. (All displayed contents of [DISPLAY] > [ERROR] will be initialized.)	
JAM	Initialize the history of JAM. (All displayed contents of [DISPLAY] > [JAM] will be initialized.)	
ADJUST	Initialize the value of band adjustment (by user) and head adjustment. The automatically adjusted value will not be initialized.	
W-INK	Initialize the remaining capacity (%) of the maintenance cartridge. (Clear [COUNTER] > [PRINTER] > [W-INK])	
CARRIAGE	Initialize the counter related to carriage unit. (Clear [COUNTER] > [CARRIAGE])	
PURGE	Initialize the counter related to purge unit. (Clear [COUNTER] > [PURGE])	
INK-USE CNT	Initialize the consumption amount of ink. (Clear [COUNTER] > [INK-USE2], and count up [COUNTER] > [CLEAR] > [CLR-INK CONSUME])	
W-INK-CHG CNT	Initialize the maintenance cartridge replacement frequency. (Clear [COUNTER] > [EXCHANGE] > [MTC EXC.], and count up [COUNTER] > [CLEAR] > [CLR-MTC EXC.]	
HEAD-CHG L CNT	Initialize the printhead L replacement frequency. (Clear [COUNTER] > [EXCHANGE] > [HEAD L EXC.], and count up [COUNTER] > [CLEAR] > [CLR-HEAD L EXC.]	
HEAD-CHG R CNT	Initialize the printhead R replacement frequency. (Clear [COUNTER] > [EXCHANGE] > [HEAD R EXC.], and count up [COUNTER] > [CLEAR] > [CLR-HEAD R EXC.]	
HDD BOX PASS.	ALL FOLDERS	Initialize the BOX password of all folders of the hard disk drive to factory default.
	FOLDER xx	Initialize the BOX password of FOLDER xx of the hard disk drive to factory default.
PARTS-CHG CNT	PARTS xx-x xx-x: Unit number of consumable parts (For details, refer to "Maintenance and Inspection" > "Consumable Parts") Initialize the consumable part replacement frequency. (Clear [COUNTER] > [EXCHANGE] > [xx-x EXC.], and count up [COUNTER] > [CLEAR] > [CLR xx-x EXC.]	

Display		Description
PARTS COUNTER	PARTS xx-x	xx-x: Unit number of consumable parts (For details, refer to "Maintenance and Inspection" > "Consumable Parts") Initialize the counter amount of the consumable parts. (Clear [COUNTER] > [PARTS CNT.] > [COUNTER xx-x]) * After replacing the consumable part, be sure to execute this menu.
USER SETTING		Initializes the user menu. Same as executing the following mode in the user menu. -[Set./Adj. Menu]-[System Setup]-[Reset PaprSetngs] -[Set./Adj. Menu]-[Interface Setup]-[Return Defaults]
CA-KEY		See "e-maintenance/imageWARE Remote" for detail.
ERDS-DAT		See "e-maintenance/imageWARE Remote" for detail.

7.1.12 Details of Service Mode

iPF6300S

This section provides details of the Service mode menu.

a) DISPLAY

Displays and prints the printer information.

1) PRINF INF

Prints adjustment values in the User menu, [DISPLAY] and [COUNTER] parameters on A4-size or larger paper. When roll media is used, the layout is optimized according to the media width.

2) SYSTEM

Displays the printer information shown below.

T-7-146

Display	Description	Unit
S/N	Serial number of printer	-
TYPE	Type setting on main controller PCB * iPF6300S are represented by 24".	-
LF TYPE	Feed roller type: 0 or 1	-
TMP	Ambient temperature	centigrade degrees
RH	Ambient humidity	%
SIZE LF	Detected size of loaded media (feed direction) 0 is always detected for the roll media.	mm/inch
SIZE CR	Detected size of loaded media (carriage scan direction)	mm/inch
AFTER INST.	Number of days since initial installation	Days

3) HEAD

Displays the following EEPROM information of the printhead.

T-7-147

Display	Description
S/N R	Serial number of printhead R
S/N L	Serial number of printhead L
LOT R	Lot number of printhead R
LOT L	Lot number of printhead L

4) INK

Displays the numbers of days passed since installation of the following ink tanks.

T-7-148

Display	Description	Unit
BK	Number of days passed since the BK ink tank was installed	Day(s)
MBK	Number of days passed since the MBK ink tank was installed	Day(s)
C	Number of days passed since the C ink tank was installed	Day(s)
M	Number of days passed since the M ink tank was installed	Day(s)
Y	Number of days passed since the Y ink tank was installed	Day(s)
PC	Number of days passed since the PC ink tank was installed	Day(s)
PM	Number of days passed since the PM ink tank was installed	Day(s)
GY	Number of days passed since the GY ink tank was installed	Day(s)

5) WARNING

Displays the warning history (up to 20 events). The newest event has the smallest history number.

6) ERROR

Displays the error history (up to 20 events). The newest event has the smallest history number.

7) JAM

Displays log of jams that have occurred (up to five events). The newest event has the smallest history number.

Indicates the date and time of jam and error code. "0000" is displayed if there is no log.

0	1					M	M	/	D	D		H	H	:	M	M
X	X	X	X	-	X	X	X	X								

F-7-21

Press the ▼ key to display detail information.

Press the ◀ key or ▶ key to navigate among detail information display 1 to 4.

Detail information display 1

```

J A M   0 1
1 : X X X X X X X X X X
      1 2 3 4 5 6 7 8 9 10
      F-7-22

```

Detail information display 2

```

J A M   0 1
2 : X X X X X X X X X
      11
      F-7-23

```

Detail information display 3

```

J A M   0 1
3 : X X X X
      12
      F-7-24

```

Detail information display 4

```

J A M   0 1
4 : X X X X X X X X X
      13
      F-7-25
      T-7-149

```

Display	Description	LCD display contents
1	Jam type	1:Carriage error, 2:Jam, 3:Feed failure (delay), 4:Cut failure, *:Unknown
2	Media	1:Roll media, 2:Cut sheet (manual feed from top), 3:Cut sheet (manual feed from front), 4:Cassette, *:Unknown
3	Jam timing	1:Feed, 2:Print, 3:Eject, *:Unknown
4	Media width detection	1:ON, 2:OFF, *:Unknown
5	Head height	0:SL (1.0mm), 1:L (1.4mm), 2:M1 (1.8mm), 3:M2 (2.0mm), 4:M3 (2.2mm), 5:H (3.2mm), *:Unknown
6	(Not Used)	-
7	(Not Used)	-
8	Environment	Display Media Information Tool's environment settings A to F according to Temperature/Humidity Detection Sensor 0: A, 1:B, 2:C, 3:D, 4:E, 5:F, *:Unknown
9	Borderless printing setting	1:Borderless printing, 2:Borderless printing, *:Unknown
10	Spur position	1:Top, 2:Down, *:Unknown
11	Print mode	Display print mode, *:Unknown
12	Media width	Display media width, *:Unknown
13	Media name	Display media name, *:Unknown

8) INK CHECK

Displays the number of times the remaining ink level detection function was turned off, to accommodate refilled ink cartridges in the order of GY, MBK, PC, Y, C, M, PM and BK.

0: Never

1: Executed at least once

b) I/O DISPLAY

The status of each sensor and switch is shown in the display.

Sensor and switch status is shown in the display.

ON = 1

OFF or not used = 0

Screen 1

I	/	O		D	I	S	P	L	A	Y						1	(Upper row)
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	(Lower row)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		(Display position)

F-7-26

Screen 2

I	/	O		D	I	S	P	L	A	Y						2	(Upper row)
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	(Lower row)
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32		(Display position)

F-7-27

Screen 1 and Screen 2 are selectable with the ◀ and ▶ keys. These screens display the associated sensor status as listed in the table below.

T-7-150

Display position	Sensor name	LCD display contents
1	Pump Cam Sensor	0:Sensor ON, 1:Sensor OFF
2	Valve Open/Closed Detection Sensor 1	0:Sensor ON, 1:Sensor OFF
3	(Not Used)	-
4	(Not Used)	-
5	Spur Cam Sensor	0:Sensor ON, 1:Sensor OFF
6	Lift Cam Sensor	0:Sensor ON, 1:Sensor OFF
7	Feed Roller HP Sensor	0:Sensor ON, 1:Sensor OFF
8	Top Cover Sensor	0:Cover open, 1:Cover close
9	(Not Used)	-
10	Ink Tank Cover Switch	0:Cover open, 1:Cover close
11	(Not Used)	-
12	Paper Detection Sensor	0:Sensor ON, 1:Sensor OFF
13	(Not Used)	-
14	(Not Used)	-
15	(Not Used)	-
16	(Not Used)	-
17	Roll Media Sensor	0:Sensor ON, 1:Sensor OFF
18	Roll Cam Sensor	0:Sensor ON, 1:Sensor OFF
19	Cutter Lift Sensor	0:Sensor ON, 1:Sensor OFF
20	Cutter Right Position Sensor	0:Sensor ON, 1:Sensor OFF
21	Cutter HP Sensor	0:Sensor ON, 1:Sensor OFF
22	(Not Used)	-
23	(Not Used)	-
24	(Not Used)	-
25	(Not Used)	-
26	Roll unit detection	0:Roll unit not detected, 1:Roll unit detected
27	(Not Used)	-
28	(Not Used)	-
29	(Not Used)	-
30	Valve Open/Closed Detection Sensor 2	0:Sensor ON, 1:Sensor OFF
31	(Not Used)	-
32	(Not Used)	-

c) ADJUST

Performs adjustments and prints the adjustment and check patterns necessary for adjusting the printer parts.

1) PRINT PATTERN

T-7-151

Display	Description
NOZZLE 1	Prints the nozzle check pattern by single direction/ single pass without using the non-discharging back up. It is used to check for the non-discharging nozzles. - Media size: A4 - Media type: any
OPTICAL AXIS	Prints the pattern and adjusts the optical axis of the multi sensor. For details, refer to "Disassembly/Reassembly" > "Adjustment and Setup Items" > "Procedure after replacing the carriage unit or multi sensor". - Media type: photo glossy paper

2) HEAD ADJ.

Set or initialize the registration adjustment values of each printheads.

T-7-152

Display			Description
MANUAL HEAD ADJ	EXTENSION		Prints the detail patterns for the manual head adjustment at CR SCAN SPEED 3 (25inch/sec [high printing mode]). After printing, the mode will change to [ADJ. SETTING]. Check the printed patterns and input the set values. Try adjustment in this mode if vertical lines are warped or colors are out of alignment when the printer driver option "High-Precision Printing" or "Priority on dot placement accuracy" is selected.
	DETAIL		Prints the detail patterns for the manual head adjustment at CR SCAN SPEED 4 and 5 (33.3, 40inch/sec). After printing, the mode will change to [ADJ. SETTING]. Check the printed patterns and input the set values. Try adjustment in this mode if "BASIC" does not improve printing.
	BASIC		Prints the basic patterns for the manual head adjustment at CR SCAN SPEED 1 to 5 (12.5 to 40inch/sec). After printing, the mode will change to [ADJ. SETTING]. Check the printed patterns and input the set values.
ADJ. SETTING	A to F	A-1 to F-2	This mode is to input the registration adjustment values. It is possible to return the values to the former one by printing the status print before changing the value.
	SAVE SETTINGS		Save the registration adjustment values that has been input.
RESET SETTINGS			Initialize the registration adjustment values (to 0).

3) NOZZLE CHECK POS.

This mode is for adjusting the optical axis of the head management sensor. For details, refer to "Disassembly/Reassembly" > "Adjustment and Setup Items" > "Procedure after replacing the head management sensor".

4) GAP CLIB.

This mode measures the gap between the printhead and media by using the multi sensor and corrects the calibration value.

5) CHANGE LF TYPE

Change the type of the feed roller.

- 0: Old feed roller
- 1: New feed roller

6) CR MOTOR COG

Adjust the carriage motor rotation.

Perform in the following cases:

- When removing/attaching or replacing the carriage or carriage belt.
- When replacing the carriage motor or linear encoder sensor.
- When there is excessive load on the carriage (such as when jamming)

If the following error message appears when performing CR MOTOR COG, check that carriage and carriage belt are installed properly and clean the rail shaft. If the error still occurs, replace the carriage motor.

C R V I B R A T I O N
E R R O R

F-7-28

7) SPUR CLEANING

If white dots appear about 1mm apart in the paper feed direction, clean the spur.

Set a cleaning sheet and clean the spur following the instructions displayed on the screen.



- Do not fold the cleaning sheet.
 - Do not use a cleaning sheet with rugged edges or a significantly folded cleaning sheet.
 - If the cleaning sheet is warped, flatten it before use.
-

d) FUNCTION

1) CR UNLOCK

Unlocks the carriage.
When CR UNLOCK is performed, the carriage lock pin is lowered and the carriage can be moved.

2) CR LOCK

Locks the carriage.
When CR LOCK is performed, the carriage lock pin is raised and the carriage is locked.

3) PG CHECK

Initializes the purge unit.

4) CR AUTO SCAN

The carriage scans.
When CR AUTO SCAN is performed, the carriage scans with the count, width, and speed set with CR SCAN COUNT/CR SCAN SIZE/CR SCAN SPEED.

5) CR SCAN COUNT

Sets the number of scans (1 to 30) to be performed with CR AUTO SCAN.
Default:1

6) CR SCAN SIZE

Sets the scan width to be performed with CR AUTO SCAN.
1:A4, 2:A3, 3:A2, 4:17inch, 5:24inch
Default:5

7) CR SCAN SPEED

Sets the speed of the scan to be performed with CR AUTO SCAN.
1:12.5, 2:20.0, 3:25.0, 4:33.3, 5:40.0 (Unit: inch/sec)
Default:1

MEMO:

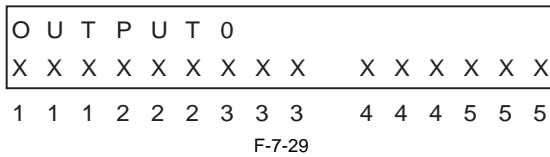
The settings made with CR SCAN COUNT, CR SCAN SIZE, CR SCAN SPEED are reset to default when the power is reset.

8) OPT SENS OUTPUT

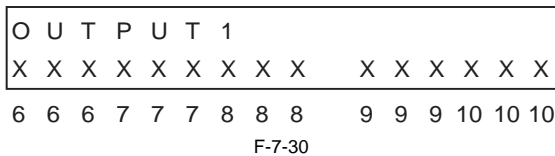
Displays the values (analog value) multi sensor detected from the media.
You can confirm the amount of margin the media has with the values read with the multi sensor and the status of the multi sensor by comparing the values with the threshold.

Press the ◀ key or ▶ key to navigate among OUTPUT 0 to 5 windows.

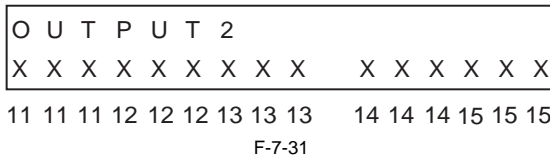
OUTPUT 0



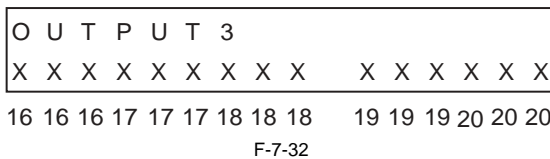
OUTPUT 1



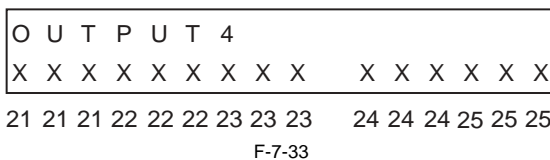
OUTPUT 2

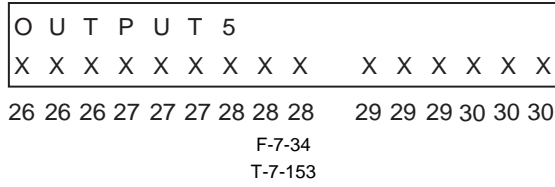


OUTPUT 3



OUTPUT 4





Display position	Description
1	LED (red) media output (including outside light)
2	LED (red) outside light output (when LED is OFF)
3	LED (red) platen output (excluding outside light)
4	LED (red) gain
5	-
6	LED (green) media output
7	LED (green) outside light output (including outside light)
8	LED (green) platen output (excluding outside light)
9	LED (green) gain
10	-
11	GAP1 media output (including outside light)
12	GAP1 outside light output (when LED is OFF)
13	GAP1 platen output (excluding outside light)
14	GAP1 gain
15	-
16	LED (blue) media output (including outside light)
17	LED (blue) outside light output (when LED is OFF)
18	LED (blue) platen output (excluding outside light)
19	LED (blue) gain
20	-
21	Media edge (diffuse reflection) media output (including outside light)
22	Media edge (diffuse reflection) outside light output (when LED is OFF)
23	Media edge (diffuse reflection) platen output (excluding outside light)
24	Media edge (diffuse reflection) gain
25	-
26	Media edge (regular reflection) media output (including outside light)
27	Media edge (regular reflection) outside light output (when LED is OFF)
28	Media edge (regular reflection) platen output (excluding outside light)
29	Media edge (regular reflection) gain
30	-

MEMO:
 - Displays all "?" if "GAP CALIB" is not performed.
 - If the value exceeds 1000, 999 is displayed.

1. Checking "OUTPUT 0" and "OUTPUT 1" when media (excluding clear film) is fed
 [Check 1]
 Check whether the multi sensor performance has degraded or whether the media is compatible with the multi sensor.

When "Media edge (diffuse reflection) gain" is maximum values and "Media edge (diffuse reflection) media output" is 186 or less, an error occurs.
 Maximum value of "Media edge (diffuse reflection)" gain: 255

When the multi sensor and media are normal, the following values are displayed:
 T-7-154

	Media edge (diffuse reflection) gain	Media edge (diffuse reflection) media output
Plain paper	About 10-35	About 500-600
Glossy paper	About 8-25	
Tracing paper	About 30-100	

[Check 2]
 Check whether the multi sensor performance has degraded or whether the media is compatible with the multi sensor.

When the difference between "Media edge (diffuse reflection) gain" and "Media edge (diffuse reflection) platen output" is 100 or less, an error occurs.
 When the multi sensor and media are normal, the difference is about 300-600.

[Check 3]
 Check the effect of external diffuse light.

When the difference between "Media edge (diffuse reflection) external light output" and "Media edge (diffuse reflection) platen output" is 500 or more, the effect of diffuse light is judged as being great.

When the effect is normal, the difference is about 50-300.

[Check 4]

Check whether the media is compatible.

When the result of "Media edge (regular reflection) gain" is five times as large as the result of "Media edge (diffuse reflection) gain", the media is judged as being incompatible with the multi sensor.

If the media is compatible, the result is about 0.5 to 1.5 times for plain/glossy paper; about 1-3 times for tracing paper.

[Check 5]

Check whether the media is compatible.

When the result of "Media edge (diffuse reflection) gain" is in one of the following, the media may be incompatible with the multi sensor.

- Nine or more times as large as that of plain paper
- Ten or more times as large as that of glossy paper
- Three or more times as large as that of tracing paper

2. Checking "OUTPUT 0" when clear film is fed

[Check 1]

Check whether the multi sensor performance has degraded or whether the media is compatible.

When the "Media edge (regular reflection) gain" is maximum values and "Media edge (regular reflection) media output" is 186 or less, an error occurs.

Maximum value of "media edge (regular reflection)" gain: 255

When the multi sensor and media are normal, the following values are displayed:

T-7-155

	Media edge (regular reflection) gain	Media edge (regular reflection) media output
Clear film	About 10-60	About 500-600

[Check 2]

Check whether the multi sensor performance has degraded or whether the media is compatible.

When the difference between "Media edge (regular reflection) gain" and "Media edge (regular reflection) platen output" is 100 or less, an error occurs.

When the multi sensor and media are normal, the difference is about 250-500.

[Check 3]

Check the effect of external diffuse light.

When the difference between "Media edge (regular reflection) external light output" and "Media edge (regular reflection) platen output" is 500 or more, the effect of diffuse light is judged as being great.

When the effect is normal, the difference is about 50-300.

3. Checking "OUTPUT 2/OUTPUT 3" and "OUTPUT 4/OUTPUT 5"

[Check 1]

Check whether the multi sensor performance has degraded or whether the media is compatible.

When "GAP gain" is maximum values and "GAP media output" is 93 or less, an error occurs.

Maximum value of "GAP gain": 255

When the multi sensor and media are normal, "GAP gain" is about 30-250.

[Check 2]

Check whether the multi sensor performance has degraded or whether the media is compatible.

When "LED gain" is maximum values and "LED media output" is 168 or less, an error occurs.

Maximum value of "LED gain": 255

When the multi sensor performance and media are normal, "LED gain" is about 5-100.

9) NOZZLE CHK

Checks for non-discharging nozzle with head management sensor.

10) NOZZLE INF

Displays the result of non-discharging nozzle check performed with "NOZZLE CHECK" by nozzle row of each ink color.

- Press the ◀ key or ▶ key to switch the ink color.
- AE:A-EVEN row, AO:A-ODD row, BE:B-EVEN row, BO:B-ODD row

C	A	E	:	O	K	A	O	:	O	K
	B	E	:	O	K	B	O	:	O	K

F-7-35

11) MEMORY CHK

T-7-156

Display	Description
DDR	Checks the DDR-SDRAM mounted on the Main Controller PCB.
EEP	Checks the EEPROM.

12) HEAD CNT CHK

Confirms the contact status of the printhead.

e) REPLACE

1) CUTTER

This mode is for replacing the cutter.

2) L&R PRINTHEADS

Replaces printheads L and R.

f) COUNTER

Displays the life (operation frequency and time) of each unit, print counts for each media type, and else. The count values can be printed from [PRINT INF].

1) PRINTER: Counters related to product life

T-7-157

Display	Description	Unit
LIFE TTL	Cumulative number of printed media (equivalent of A4)	sheets
LIFE ROLL	Cumulative number of printed roll media (equivalent of A4)	sheets
LIFE CUTSHEET	Cumulative number of printed cut sheets (equivalent to A4)	sheets
LIFE A-F	Cumulative number of printed media for environments A to F	sheets
POWER ON	Cumulative power-on time (excluding the sleep time)	Hours
W-INK	Remaining capacity of the maintenance cartridge	%
CUTTER	Number of cutting operations (count as 1 by moving back and forth)	Times
WIPE	Number of wiping operations	Times
SLEEP ON	Cumulative sleep-on time	Hours

2) CARRIAGE: Counters related to carriage unit

T-7-158

Display	Description	Unit
PRINT	Cumulative printing time	Hours
DRIVE	Cumulative carriage moving time	Hours
CR COUNT	Cumulative carriage scan count (count as 1 by moving back and forth)	Times
CR DIST.	Cumulative carriage scan distance (count as 1 by moving 210mm)	Times
PRINT COUNT	Cumulative print end count (count as 1 by capping)	Times

3) PURGE: Counters related to purge unit

T-7-159

Display	Description	Unit
CLN-A-1	Cumulative number of automatic cleaning 1 (normal suction) operations	Times
CLN-A-2	Cumulative number of automatic cleaning 2 (ink level adjusting) operations	Times
CLN-A-3	Cumulative number of automatic cleaning 3 (initial filling) operations	Times
CLN-A-6	Cumulative number of automatic cleaning 6 (strong normal suction) operations	Times
CLN-A-7	Cumulative number of automatic cleaning 7 (aging) operations	
CLN-A-10	Cumulative number of automatic cleaning 10 (ink filling after secondary transportation) operations	Times
CLN-A-11	Cumulative number of automatic cleaning 11 (ink filling after head replacement) operations	Times
CLN-A-15	Cumulative number of automatic cleaning 15 (dot count small suction) operations	Times
CLN-A-16	Cumulative number of automatic cleaning 16 (sedimented ink agitation) operations	Times
CLN-A-17	Cumulative number of automatic cleaning 17 (small suction) operations	Times
CLN-A-TTL	Total number of automatic cleaning operations	Times
CLN-M-1	Cumulative number of manual cleaning 1 (normal suction) operations	Times
CLN-M-4	Cumulative number of manual cleaning 4 (ink draining from head after head replacement) operations	Times
CLN-M-5	Cumulative number of manual cleaning 5 (ink draining from head and tube before transportation) operations	Times
CLN-M-6	Cumulative number of manual cleaning 6 (normal strong suction) operations	Times
CLN-M-TTL	Total number of manual cleaning operations	Times

4) CLEAR: Counters related to counter initialization

T-7-160

Display	Description	Unit	Remarks
CLR-INK CONSUME	Cumulative count of ink section consumption amount clearing	Times	
CLR-MTC EXC.	Cumulative count of maintenance cartridge replacement count clearing	Times	
CLR-HEAD L EXC.	Cumulative count of printhead L replacement count clearing	Times	
CLR-HEAD R EXC.	Cumulative count of printhead R replacement count clearing	Times	
CLR Wia-1 EXC.	Cumulative count of unit Wia-1(suction fan) replacement count clearing	Times	
CLR Wib-1 EXC.	Cumulative count of unit Wib-1(platen duct) replacement count clearing	Times	
CLR CR-1 EXC.	Cumulative count of unit CR-1(carriage unit bushing) replacement count clearing	Times	
CLR CR-2 EXC.	Cumulative count of unit CR-2(flexible cable unit) replacement count clearing	Times	
CLR CR-3 EXC.	Cumulative count of unit CR-3(linear encoder sensor/linear scale/shaft cleaner) replacement count clearing	Times	
CLR CR-4 EXC.	Cumulative count of unit CR-4(carriage height changing cam) replacement count clearing	Times	
CLR CR-5 EXC.	Cumulative count of unit CR-5(multi sensor) replacement count clearing	Times	
CLR SP-1 EXC.	Cumulative count of unit SP-1(ink tube unit) replacement count clearing	Times	
CLR PG-1 EXC.	Cumulative count of unit PG-1(purge unit) replacement count clearing	Times	
CLR HMa-1 EXC.	Cumulative count of unit HMa-1(head management sensor) replacement count clearing	Times	
CLR PL-1 EXC.	Cumulative count of unit PL-1(feed motor) replacement count clearing	Times	
CLR PS-1 EXC.	Cumulative count of unit PS-1(spur) replacement count clearing	Times	
CLR Mi-1 EXC.	Cumulative count of unit Mi-1(mist fan/mist filter) replacement count clearing	Times	
CLR MS-1 EXC.	Cumulative count of unit MS-1(multi sensor) replacement count clearing	Times	Calibration error index, This counter synchronizes with CLR CR-5 EXC.
CLR CT-1 EXC.	Cumulative count of unit CT-1(cutter) replacement count clearing	Times	
CLR-FACTORY CNT.	For factory	Times	

5) EXCHANGE: Counters related to parts replacement

T-7-161

Display	Description	Unit
MTC EXC.	Maintenance cartridge replacement count	Times
HEAD L EXC.	Printhead L replacement count	Times
HEAD R EXC.	Printhead R replacement count	Times
BOARD EXC.(M/B)	Main controller PCB replacement count	Times
Wia-1 EXC.	Wia-1(suction fan) replacement count (Count of executing [INITIALIZE] > [PARTS COUNTER] > [PARTS Wia-1])	Times
Wib-1 EXC.	Wib-1(platen duct) replacement count (Count of executing [INITIALIZE] > [PARTS COUNTER] > [PARTS Wib-1])	Times
CR-1 EXC.	CR-1(carriage unit bushing) replacement count (Count of executing [INITIALIZE] > [PARTS COUNTER] > [PARTS CR-1])	Times
CR-2 EXC.	CR-2(flexible cable unit) replacement count (Count of executing [INITIALIZE] > [PARTS COUNTER] > [PARTS CR-2])	Times
CR-3 EXC.	CR-3(linear encoder sensor/linear scale/shaft cleaner) replacement count (Count of executing [INITIALIZE] > [PARTS COUNTER] > [PARTS CR-3])	Times
CR-4 EXC.	CR-4(carriage height changing cam) replacement count (Count of executing [INITIALIZE] > [PARTS COUNTER] > [PARTS CR-4])	Times
CR-5 EXC.	CR-5(multi sensor) replacement count (Count of executing [INITIALIZE] > [PARTS COUNTER] > [PARTS CR-5])	Times
SP-1 EXC.	SP-1(ink tube unit) replacement count (Count of executing [INITIALIZE] > [PARTS COUNTER] > [PARTS SP-1])	Times
PG-1 EXC.	PG-1(purge unit) replacement count (Count of executing [INITIALIZE] > [PARTS COUNTER] > [PARTS PG-1])	Times
HMa-1 EXC.	HMa-1(head management sensor) replacement count (Count of executing [INITIALIZE] > [PARTS COUNTER] > [PARTS HMa-1])	Times
PL-1 EXC.	PL-1(feed motor) replacement count (Count of executing [INITIALIZE] > [PARTS COUNTER] > [PARTS PL-1])	Times
PS-1 EXC.	PS-1(spur) replacement count (Count of executing [INITIALIZE] > [PARTS COUNTER] > [PARTS PS-1])	Times
Mi-1 EXC.	Mi-1(mist fan/mist filter) replacement count (Count of executing [INITIALIZE] > [PARTS COUNTER] > [PARTS Mi-1])	Times
MS-1 EXC.	MS-1(multi sensor) replacement count (Count of executing [INITIALIZE] > [PARTS COUNTER] > [PARTS MS-1])	Times
CT-1 EXC.	CT-1(cutter) replacement count (Count of executing [INITIALIZE] > [PARTS COUNTER] > [PARTS CT-1])	Times

6) DETAIL-CNT: Other counters

T-7-162

Display	Description	Unit
MOVE PRINTER	Number of times "Prep.MovePrinter" on Main menu is executed.	Times
N-INKCHK(XX)	XX: Ink color Count of turning off the ink remaining level detection for each color	Times
MEDIACONFIG-CNT	Count of media registered by media editor	Times

7) INK-USE1: Counters related to ink consumption

T-7-163

Display	Description	Unit
INK-USE1(XX)	XX: Ink color Cumulative consumption amount of generic ink	ml
INK-USE1(TTL)	Total amount of cumulative consumption of generic ink	ml
N-INK-USE1(XX)	XX: Ink color Cumulative consumption amount of refilled ink	ml
N-INK-USE1(TTL)	Total amount of cumulative consumption of refilled ink	ml

8) INK-USE2: Counters related to ink consumption

T-7-164

Display	Description	Unit
INK-USE2(XX)	XX: Ink color Consumption amount of generic ink of the currently installed ink tank.	ml
INK-USE2(TTL)	Total consumption amount of generic ink of the currently installed ink tanks	ml
N-INK-USE2(XX)	XX: Ink color Consumption amount of refilled ink of the currently installed ink tank	ml
N-INK-USE2(TTL)	Total consumption amount of refilled ink of the currently installed ink tanks	ml

9) INK-EXC: Counters related to ink tank replacement

T-7-165

Display	Description	Unit
INK-EXC(XX)	XX: Ink color Cumulative count of generic ink tank replacement	ml
INK-EXC(TTL)	Total amount of cumulative count of generic ink tank replacement	ml
N-INK-EXC(XX)	XX: Ink color Cumulative count of refilled ink tank replacement	ml
N-INK-EXC(TTL)	Total amount of cumulative count of refilled ink tank replacement	ml

10) MEDIA x (x: 1 to 7): Counters related to media

One to seven media types are displayed individually in order with large cumulative print area.

T-7-166

Display	Description	Unit
NAME	Media type	-
TTL	Total amount of cumulative print area of roll media and cut sheet (metric)	Sq.m
TTL	Total amount of cumulative print area of roll media and cut sheet (inch)	Sq.f
ROLL	Cumulative print area of roll media (metric)	Sq.m
ROLL	Cumulative print area of roll media (inch)	Sq.f
CUT SHEET	Cumulative print area of cut sheet (metric)	Sq.m
CUT SHEET	Cumulative print area of cut sheet (inch)	Sq.f

11) MEDIA OTHER: Counters related to media

Displays the total amount of cumulative print area of the other media type than the above-mentioned

T-7-167

Display	Description	Unit
NAME	Media type	-
TTL	Total amount of cumulative print area of roll media and cut sheet (metric)	Sq.m
TTL	Total amount of cumulative print area of roll media and cut sheet (inch)	Sq.f
ROLL	Cumulative print area of roll media (metric)	Sq.m
ROLL	Cumulative print area of roll media (inch)	Sq.f
CUT SHEET	Cumulative print area of cut sheet (metric)	Sq.m
CUT SHEET	Cumulative print area of cut sheet (inch)	Sq.f

12) MEDIASIZE1 ROLL: Counters related to roll media printing

T-7-168

Display	Description	Unit
P-SQ 24-36	Cumulative print area of paper equal to or larger than 24 inches but less than 36 inches (physical size)	Sq.m/Sq.f
P-SQ 17-24	Cumulative print area of paper equal to or larger than 17 inches but less than 24 inches (physical size)	Sq.m/Sq.f
P-SQ -17	Cumulative print area of paper less than 17 inches (physical size)	Sq.m/Sq.f
P-CNT 24-36	Cumulative number of sheets of A4-equivalent paper equal to or larger than 24 inches but less than 36 inches (physical size)	sheets
P-CNT 17-24	Cumulative number of sheets of A4-equivalent paper equal to or larger than 17 inches but less than 24 inches (physical size)	sheets
P-CNT -17	Cumulative number of sheets of A4-equivalent paper less than 17 inches (physical size)	sheets

13) MEDIASIZE2 ROLL: Counters related to roll media printing

T-7-169

Display	Description	Unit
D-SQ 24-36	Cumulative print area of paper equal to or larger than 24 inches but less than 36 inches (data size)	Sq.m/Sq.f
D-SQ 17-24	Cumulative print area of paper equal to or larger than 17 inches but less than 24 inches (data size)	Sq.m/Sq.f
D-SQ -17	Cumulative print area of paper less than 17 inches (data size)	Sq.m/Sq.f
D-CNT 24-36	Cumulative number of sheets of A4-equivalent paper equal to or larger than 24 inches but less than 36 inches (data size)	sheets
D-CNT 17-24	Cumulative number of sheets of A4-equivalent paper equal to or larger than 17 inches but less than 24 inches (data size)	sheets
D-CNT -17	Cumulative number of sheets of A4-equivalent paper less than 17 inches (data size)	sheets

14) MEDIASIZE1 CUT: Counters related to cut sheet printing

T-7-170

Display	Description	Unit
P-SQ 24-36	Cumulative print area of paper equal to or larger than 24 inches but less than 36 inches (physical size)	Sq.m/Sq.f
P-SQ 17-24	Cumulative print area of paper equal to or larger than 17 inches but less than 24 inches (physical size)	Sq.m/Sq.f
P-SQ -17	Cumulative print area of paper less than 17 inches (physical size)	Sq.m/Sq.f
P-CNT 24-36	Cumulative number of sheets of A4-equivalent paper equal to or larger than 24 inches but less than 36 inches (physical size)	sheets
P-CNT 17-24	Cumulative number of sheets of A4-equivalent paper equal to or larger than 17 inches but less than 24 inches (physical size)	sheets
P-CNT -17	Cumulative number of sheets of A4-equivalent paper less than 17 inches (physical size)	sheets

15) MEDIASIZE2 CUT: Counters related to cut sheet printing

T-7-171

Display	Description	Unit
D-SQ 24-36	Cumulative print area of paper equal to or larger than 24 inches but less than 36 inches (data size)	Sq.m/Sq.f
D-SQ 17-24	Cumulative print area of paper equal to or larger than 17 inches but less than 24 inches (data size)	Sq.m/Sq.f
D-SQ -17	Cumulative print area of paper less than 17 inches (data size)	Sq.m/Sq.f
D-CNT 24-36	Cumulative number of sheets of A4-equivalent paper equal to or larger than 24 inches but less than 36 inches (data size)	sheets
D-CNT 17-24	Cumulative number of sheets of A4-equivalent paper equal to or larger than 17 inches but less than 24 inches (data size)	sheets
D-CNT -17	Cumulative number of sheets of A4-equivalent paper less than 17 inches (data size)	sheets

16) HEAD DOT CNT.1: Counter related to dot count

T-7-172

Display	Description	Unit
XX	XX: Ink color Dot counts of each colors of the currently installed printhead	(x 1,000,000) dots
TTL	Total dot counts of each colors of the currently installed printhead	(x 1,000,000) dots

17) HEAD DOT CNT.2: Counter related to dot count

T-7-173

Display	Description	Unit
XX	XX: Ink color Cumulative dot counts of each colors	(x 1,000,000) dots
TTL	Total cumulative dot counts of each colors	(x 1,000,000) dots

18) PARTS CNT. : Counter related to consumable parts

```
C O U N T E R   C R - 1
a a                b b b b b
```

F-7-36

The displays are selectable with the ◀ and ▶ keys.
Counter of the consumable part (current)

```
C O U N T E R   C R - 1
1 :                x x x x x
```

F-7-37

Life of the consumable part

```
C O U N T E R   C R - 1
2 :                x x x x x
```

F-7-38

Use rate until part replacement

```
C O U N T E R   C R - 1
3 :                x x x %
```

F-7-39

Counter of the consumable part (accumulate)

```
C O U N T E R   C R - 1
4 :                x x x x x
```

F-7-40

T-7-174

Display	Description	Unit
COUNTER xx-x	xx-x: Unit number of consumable parts (For detail, refer to "Maintenance and Inspection" > "Consumable Parts") Display the status (aa) and the days passed since the counter (bbbb) resetting. - Status OK: Use rate (until part replacement) of all consumable parts included in each unit are below 90%. W1: Use rate (until part replacement) of either of the consumable parts included in each unit has reached 90% or more. W2: Use rate (until part replacement) of either of the consumable parts included in each unit has reached 100%, but no need to stop the printer. E : Use rate (until part replacement) of either of the consumable parts included in each unit has reached 100%, and the printer needs to be stopped.	Days
1:	Unit number of consumable parts Counter of the consumable part (current)	
2:	Life of the consumable part	
3:	Use rate until part replacement	%
4:	Counter of the consumable part (accumulate)	

g) SETTING

Make various settings.

1) Pth

Turn on or off the head pulse rank control function.

Default: OFF

2) RTC

Set RTC (real time clock) after replacing the lithium battery on the main controller PCB.

T-7-175

Display		Description
DATE	yyyy/mm/dd	Set date
TIME	hh:mm	Set time

3) PV AUTO JUDGE

Sets ink saver mode.

Default: OFF

4) NETWORK

See "e-maintenance/imageWARE Remote" for detail.

5) E-RDS

See "e-maintenance/imageWARE Remote" for detail.

6) HEAD DOT INF

Set whether to turn ON/OFF displaying of message as the result of non-discharging nozzle detection.

Default: OFF

T-7-176

Number of non-discharging nozzle (nozzle/2,560-nozzles)	ON	OFF
0-99	Displays a message to check the printing.	-
100-319	Displays a message to check the head.	-
320 or more	Displays a message to replace the head.	-

h) INITIALIZE

Clear the [DISPLAY] histories, [ADJUST] settings, [COUNTER] values, and other parameters.

T-7-177

Display		Description
WARNING		Initialize the history of WARNING. (All displayed contents of [DISPLAY] > [WARNING] will be initialized.)
ERROR		Initialize the history of ERROR. (All displayed contents of [DISPLAY] > [ERROR] will be initialized.)
JAM		Initialize the history of JAM. (All displayed contents of [DISPLAY] > [JAM] will be initialized.)
ADJUST		Initialize the value of band adjustment (by user) and head adjustment. The automatically adjusted value will not be initialized.
W-INK		Initialize the remaining capacity (%) of the maintenance cartridge. (Clear [COUNTER] > [PRINTER] > [W-INK])
CARRIAGE		Initialize the counter related to carriage unit. (Clear [COUNTER] > [CARRIAGE])
PURGE		Initialize the counter related to purge unit. (Clear [COUNTER] > [PURGE])
INK-USE CNT		Initialize the consumption amount of ink. (Clear [COUNTER] > [INK-USE2], and count up [COUNTER] > [CLEAR] > [CLR-INK CONSUME])
W-INK-CHG CNT		Initialize the maintenance cartridge replacement frequency. (Clear [COUNTER] > [EXCHANGE] > [MTC EXC.], and count up [COUNTER] > [CLEAR] > [CLR-MTC EXC.]
HEAD-CHG L CNT		Initialize the printhead L replacement frequency. (Clear [COUNTER] > [EXCHANGE] > [HEAD L EXC.], and count up [COUNTER] > [CLEAR] > [CLR-HEAD L EXC.]
HEAD-CHG R CNT		Initialize the printhead R replacement frequency. (Clear [COUNTER] > [EXCHANGE] > [HEAD R EXC.], and count up [COUNTER] > [CLEAR] > [CLR-HEAD R EXC.]
HDD BOX PASS.	ALL FOLDERS	Initialize the BOX password of all folders of the hard disk drive to factory default.
	FOLDER xx	Initialize the BOX password of FOLDER xx of the hard disk drive to factory default.
PARTS-CHG CNT	PARTS xx-x	xx-x: Unit number of consumable parts (For details, refer to "Maintenance and Inspection" > "Consumable Parts") Initialize the consumable part replacement frequency. (Clear [COUNTER] > [EXCHANGE] > [xx-x EXC], and count up [COUNTER] > [CLEAR] > [CLR xx-x EXC.]

Display		Description
PARTS COUNTER	PARTS xx-x	xx-x: Unit number of consumable parts (For details, refer to "Maintenance and Inspection" > "Consumable Parts") Initialize the counter amount of the consumable parts. (Clear [COUNTER] > [PARTS CNT.] > [COUNTER xx-x]) * After replacing the consumable part, be sure to execute this menu.
USER SETTING		Initializes the user menu. Same as executing the following mode in the user menu. -[Set./Adj. Menu]-[System Setup]-[Reset PaprSetngs] -[Set./Adj. Menu]-[Interface Setup]-[Return Defaults]
CA-KEY		See "e-maintenance/imageWARE Remote" for detail.
ERDS-DAT		See "e-maintenance/imageWARE Remote" for detail.
JOB LOG		Initialize the history of JOB LOG.

7.1.13 Sample Printout

iPF6100 / iPF6200 / iPF6000S

a) PRINTINF

A sample printout that is produced by executing [SERVICE MODE] > [DISPLAY] > [PRINTINF] is shown below, along with instructions about how to interpret it.

(1) xxxx PRINT INF
 Firm:00.49 Boot:00.31 MIT(DB):9303 MIT(DB):1.02 S/N:DF029090

(2) SYSTEM
 TYPE:DF029090 24 0 TMP:26 SIZE_LF: 0.0 SIZE_CR: 514.3
 HEAD S/N R:39410000 L:04400000 HEAD LOT R:166L09A0 L:166L09A0
 INK
 Y :0 PC :0 C :0 PGY :0 GY :0 BK :0
 PM :0 M :0 MBK :0 R :0 G :0 B :0
 WARNING
 01:0000 02:0000 03:0000 04:0000 05:0000
 06:0000 07:0000 08:0000 09:0000 10:0000
 11:0000 12:0000 13:0000 14:0000 15:0000
 16:0000 17:0000 18:0000 19:0000 20:0000
 ERROR
 01:03060A00-2E01 02:0000 03:0000 04:0000 05:0000
 06:0000 07:0000 08:0000 09:0000 10:0000
 11:0000 12:0000 13:0000 14:0000 15:0000
 16:0000 17:0000 18:0000 19:0000 20:0000
 INK CHK: Y:0 PC:0 C:0 PGY:0 GY:0 BK:0 PM:0 M:0 MBK:0 R:0 G:0 B:0

(3) COUNTER
 PRINTER
 LIFE TTL:0 LIFE ROLL:0 LIFE CUTSHEET:0
 LIFE A:0 B:0 C:0 D:0 E:0 F:0
 PV:0 W:0 W-INK:79%

MEDIA 7	MEDIA OTHER		OTHER	
NAME	TTL	ROLL	CUTSHEET	OTHER
TTL	0.0 m2	0.0 sq.f	0.0 m2	0.0 sq.f
ROLL	0.0 m2	0.0 sq.f	0.0 m2	0.0 sq.f
CUTSHEET	0.0 m2	0.0 sq.f	0.0 m2	0.0 sq.f

PARTS COUNTER	(a)	(b)	(c)	(d)	(e)	(f)
COUNTER A : OK	36					
PARTS A1 :		0.0		36.1	0%	0.0
COUNTER B : OK	36					
PARTS B1 :		0.0		64.0	0%	0.0
COUNTER D : OK	36					
PARTS D1 :		1362		13028571	0%	1362
PARTS D2 :		377		6700000	0%	377
PARTS D3 :		2238		16500000	0%	2238
PARTS D4 :	33			60000	0%	33
PARTS D5 :	2238			16500000	0%	2238
COUNTER F : OK	36					
PARTS F1 :		377		4000000	0%	377
COUNTER H : OK	36					
PARTS H1 :	15			50000	0%	15
COUNTER L : OK	36					
PARTS L1 :		4		12500	0%	4
COUNTER P : OK	36					
PARTS P1 :		0		750	0%	0
COUNTER R : OK	36					
PARTS R1 :		0		27500	0%	0
COUNTER V : OK	36					
PARTS V1 :		0.0		15.2	0%	0.0
COUNTER X : OK	36					
PARTS X1 :	----			-----	0%	----

(5) PV AUTO JUDGE : ON(NORMAL) 1

(4) Calibration History (Last 20times)

(a)	(b)	(c)	(d)	(e)
Date	Action	Media	Temp(C)	Humid(%)
1: 2007/02/24	0			
2: 2007/02/24	0			
3: 2007/02/24	0			
4: 2007/02/24	0			
5: 2007/02/24	0			
6: 2007/02/22	3			
7: 2007/02/21	2	Matte Photo	27/ 40	
8: 2007/02/20	0			
9: 2007/02/15	3			
10: 2007/02/15	2	Special 1	20/ 59	
11: 2007/02/15	2	Special 1	20/ 58	
12: 2007/02/15	2	Special 1	20/ 57	
13: 2007/02/15	2	Special 1	20/ 56	
14: 2007/02/15	2	Special 1	20/ 55	
15: 2007/02/15	2	Special 1	20/ 54	
16: 2007/02/15	2	Special 1	20/ 53	
17: 2007/02/15	2	Special 1	20/ 52	
18: 2007/02/15	2	Special 1	20/ 51	
19: 2007/02/15	2	Special 1	20/ 50	
20: 2007/02/02	2	Glossy Photo	27/ 38	

F-7-41

(1) Version numbers of the firmware installed in the printer, boot ROM, and MIT DB format

(2) Printer information

For more item details, see "Detail of Service Mode" > "a) Display".

(3) Counter information

For more item details, see "Detail of Service Mode" > "e) Counter".

(a) Consumables status

(b) Number of days elapsed since the counter was last reset

(c) Counter value

(d) Value with which consumables reach their replacement timing

(e) Ratio of the current count to the replacement timing

(f) Cumulative counter value

(4) History of execution of color calibration

(a) Order of the date of execution

When the value becomes larger, the date becomes older.

(b) Date of execution

(c) Operation executed

0: Automatic Restore Default with Head Replacement

1: Replace Multisensor

2: General Adj.

3: Restore Default

4: Media-Based Adj. (not used)

5: Media-Based Dfls. initialization (not used)

(d) If General Adj. is executed, the paper type is indicated; if Replace Multisensor (GAP CALIB) is executed, the unit version is indicated.

(e) If General Adj. is executed, the run-time temperature and relative humidity are indicated.

(5) Ink saver mode setting

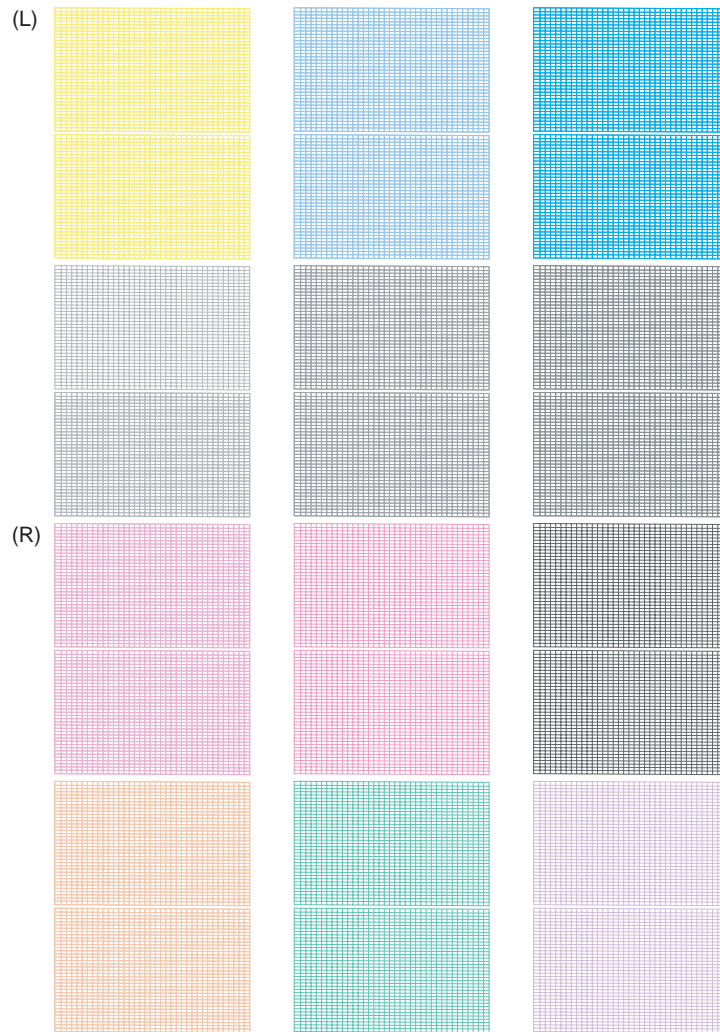
(a) Ink saver mode status

(b) Number of times ink save mode has been executed (unit: times).

b) NOZZLE 1

A sample printout that is produced by executing [SERVICE MODE]> [ADJUST]> [PRINT PATTERN]> [NOZZLE 1] is shown below.

Nozzle Check Pattern SERVICE



F-7-42

c) OPTICAL AXIS

A sample printout that is produced by executing [SERVICE MODE]> [ADJUST]> [PRINT PATTERN]> [OPTICAL AXIS] is shown below.



F-7-43

d) ROUGH

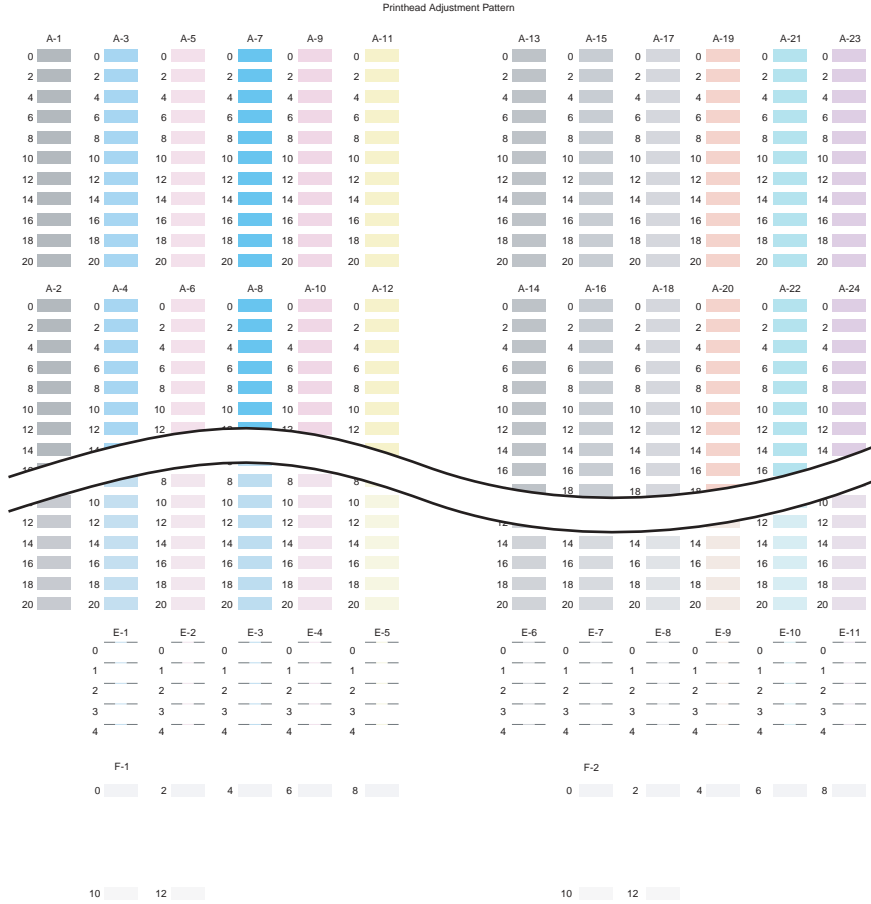
A sample printout that is produced by executing [SERVICE MODE]> [ADJUST]> [HEAD ADJ.]> [AUTO HEAD ADJ.]> [ROUGH] is shown below.



F-7-44

e) DETAIL

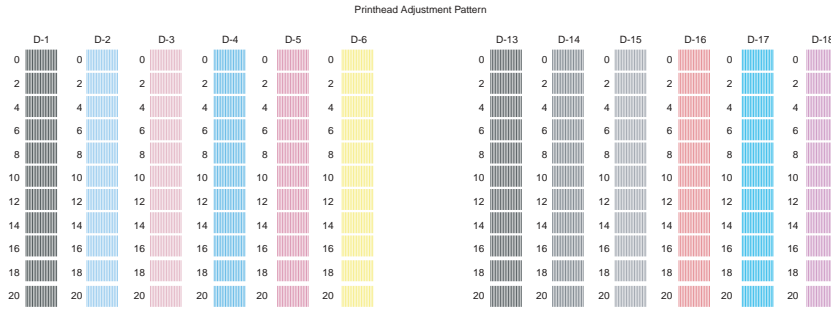
A sample printout that is produced by executing [SERVICE MODE]> [ADJUST]> [HEAD ADJ.] > [AUTO HEAD ADJ]> [DETAIL] is shown below.



F-7-45

f) BASIC

A sample printout that is produced by executing [SERVICE MODE]> [ADJUST]> [HEAD ADJ.] > [AUTO HEAD ADJ]> [BASIC] is shown below.



F-7-46

7.1.14 e-Maintenance/imageWARE Remote

iPF6300 / iPF6350 / iPF6300S

1. Overview

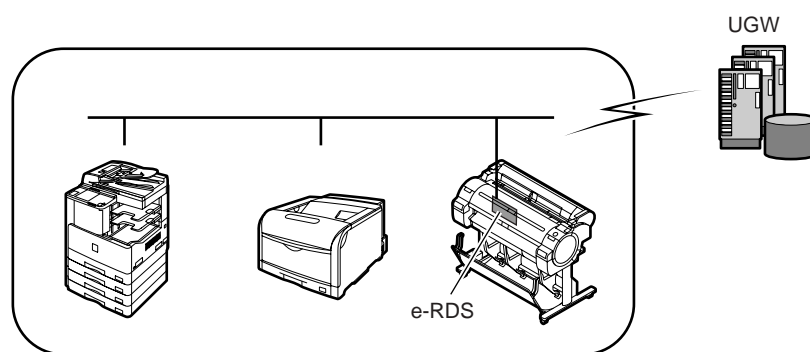
The e-Maintenance/imageWARE Remote system allows a customer's device information and status to be monitored via the Internet on a server called the UGW (Universal Gateway) Server.

The following device information/ statuses can be monitored.

- Service mode counters
- Parts counters
- Mode counters
- Firmware information
- Service call errors log
- Jam log
- Alarm log
- Alert change statuses (Toner/ ink low/ out, etc.)

Device monitor information above is sent by the e-RDS (embedded Remote Diagnostic System), which is embedded in the devices.

Further, as the above is all customer information, https SOAP protocol is used for communication between the UGW and the device, providing enhanced security (SSL client communication)



F-7-47

2. Feature and benefits

Device (e-RDS) embedded with network module can realize a front-end processing of the e-Maintenance/imageWARE Remote system without attaching an extra hardware equipment.

The e-Maintenance/imageWARE Remote system can be implemented without imposing a burden on the users.

3. Settings procedures

3.1 Advance preparations

To monitor the device with e-Maintenance/imageWARE Remote, the following settings are required.

1) Advance confirmation

Check with the UGW administrator whether the printer to be connected to the e-Maintenance/imageWARE remotely has been registered in the UGW.

2) Advance preparations

Interview the user's system administrator in advance to find out the following information about the network.

Information item -1

IP address setting methods

Check whether automatic setting or manual setting is to be used, and confirm the information below.

- Automatic setting: (DHCP, RARP, BOOTP) (ON/OFF selection)
- or
- Manual setting: IP address, subnet mask and gateway address to be set

Information item -2

Is there a DNS server in use?

If there is a DNS server in use, find out the following.

- Primary DNS server address
- Secondary DNS server address (optional)

Information item -3

Is there a proxy server?

If there is a proxy server in use, find out the following.

- Proxy server address
- Port number connected to proxy server

Information item -4

Is proxy server authentication required?

If proxy server authentication is required, find out the following.

- User name and password required for proxy authentication

3) Network settings

Make the network settings based on the information obtained in "2) Advance preparations."

Network settings are made in user mode. Therefore, it is assumed that the user has already set it. However, there are a few cautions as described below, and if necessary, there may be cases in which the service technicians do it after obtaining an approval from user.

Caution point -1

DNS server settings

Under the present specs, DNS server settings cannot be entered from the operation panel menu. Use "Remote UI" to enter.

Caution point -2

Proxy server settings

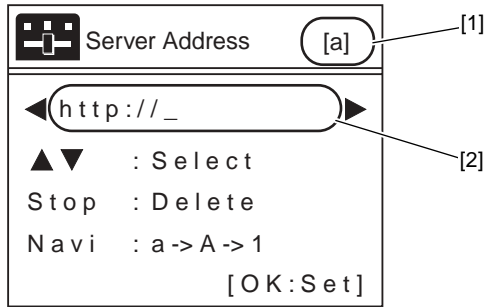
Proxy server settings cannot be made in "Remote UI". Enter from the operation panel menu. In addition, the operation panel menu items for proxy server only appear when e-RDS functions are enabled. Therefore, when you make proxy server settings, turn the "E-RDS SWITCH" setting to "ON" as described in later sections beforehand.

Caution point -3

Validate the settings (restart the printer)

The server address settings are activated only after you restart the printer. Make sure you always restart the printer after changing server address settings.

(1) How to enter Proxy server address



F-7-48

[1] Display to show enter mode

a: Small alphabet letter

A: Capital alphabet letter

1: Numerical character

[2] URL entry field (128 one-byte characters)

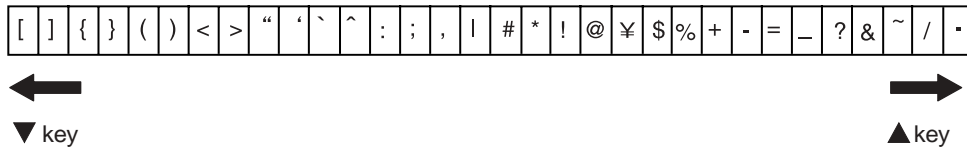
- Following symbols exist in each enter mode. (When you press the ▲ key, characters on the right hand side will appear.)

[a] Small alphabet letter mode: [Symbol] abcdefghijklmnopqrstuvwxyz

[A] Capital alphabet letter mode: [Symbol] ABCDEFGHIJKLMNOPQRSTUVWXYZ

[1] Numerical character mode: [Symbol] 1234567890

- [Symbol] appears in the following order.



F-7-49

- Within the URL entry field, you can use the ▲ or ▼ key to select a character, and the ◀ or ▶ key to move the cursor.

- The Stop key has the Delete function when there is a character at the cursor position. (The character at the position of the cursor is deleted, moving all following characters one position toward freed place.)

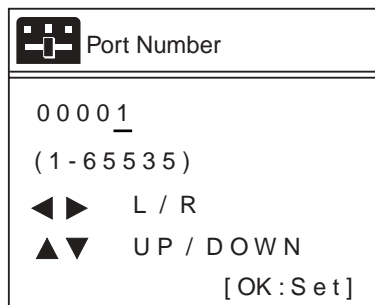
If there is no character at the cursor position, it has the Backspace function. (The character at the left of the cursor is deleted, moving the cursor.)

- When you move the cursor to a position of a character and press the ▲ or ▼ key, you can insert characters.

(The character at the cursor position is moved to the right, and a new character is inserted.)

- You can select the enter mode with the Navi key. (The default setting is small alphabet letter.)

(2) How to enter port number



F-7-50

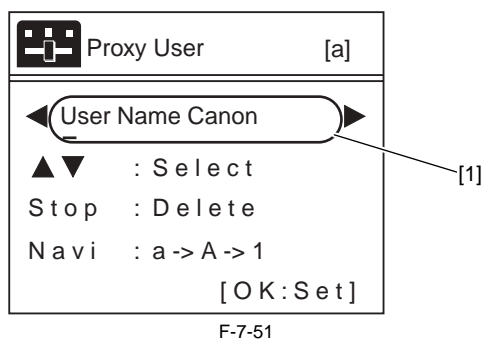
- Possible to set between 1 and 65535 (The default display is 1).

- The top digit can be selected between 0 and 6. Other digits can be selected between 0 and 9.

- When OK key is pressed, and the value is over 65535, it is fixed on 65535.

- When OK key is pressed, and the value is 0, it is fixed on 1.

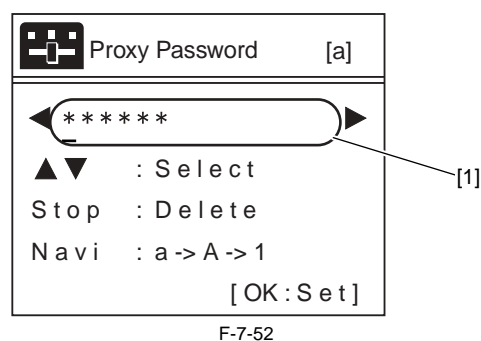
(3) How to enter user name



[1] Entry filed (24 one-byte characters)

- It is the same as the entering method of proxy server address.

(4) How to enter password



[1] Entry filed (24 one-byte characters)

- If a password has already been set, when you press the ▲ or ▼ key at any cursor position, all the "*" will disappear and the first letter will be entered as the first character.
- Entered characters are visible until you press OK key. Once entering into the menu again, they will be changed to "*".
- Other information is the same as the entering method of proxy server address.

3.2 e-RDS settings

1) Enter the service mode.

- Turn off the printer power.

- Turn on the power while pressing the [Load] key and [Navigate] key.

* Keep pressing the above keys until "Initializing" is displayed.

- "S" appears at the top right of the display.

- Press the ◀ or ▶ key to choose the [Set./Adj. Menu] and press the [OK] key.

* "SERVICE MODE" appears in the menu list and the MESSAGE LED flashes.

- Press the ▲ key or ▼ key to choose "SERVICE MODE" and press the [OK] key.

2) Set the following e-RDS setting items No.1-4.

(If the result of the communication test (COM-TEST) is "NG", execute setting items No.5-6 to solve the problem.)

T-7-178

No.	Item	Type	Description
1	E-RDS SWITCH	2 bytes	OFF : Disable/ ON : Enable e-Maintenance/ imageWARE Remote system to send device information, meter data, and error statuses to the UGW. Default value is OFF (not in use)
2	UGW-ADDRESS	129 bytes (NULL included, SJIS not allowed)	The UGW address by default : https://a01---. The complete address is not provided in this document for security reason.
3	UGW-PORT	4 bytes	The UGW Port Number by default : 443 Validation : 1-65535
4	COM-TEST		To perform Communication test with UGW and set "OK!"/ "NG!" as the result.
5	COM-LOG		Detailed communication data log Switches to display time when error occurred, error code, and error data up to now. Max 30 loggings retained. Max 128 characters (not containing NULL) for Error information.
6	ERDS-DAT		Initialize e-RDS setting data

3.3 Service Mode Menu Tree

First Level	Second Level	Third Level	Fourth Level	Fifth Level	Sixth Level				
DISPLAY									
I/O DISPLAY									
ADJUST									
FUNCTION									
REPLACE									
COUNTER									
SETTEING	Pth								
	RTC								
	PV AUTO JUDGE								
	NETWORK					CERTIFICATE	CA-CERTIFICATE	VALIDITY:*1	yyyy/mm/dd
	E-RDS					E-RDS SWITCH:*1	ON/OFF		
						UGW-ADDRESS:*1	http://XXX		
						UGW-PORT:*1	XXXXX		
						COM-TEST:*1	YES		
						COM-LOG:*1			
	HEAD DOT INF								
INITIALIZE	WARNING								
	ERROR								
	JAM								
	ADJUST								
	W-INK								
	CARRIAGE								
	PURGE								
	INK-USE CNT								
	W-INK-CHG CNT								
	HEAD-CHG CNT								
	HDD BOX PASS								
	PARTS-CHG CNT								
	PARTS COUNTER								
	USER SETTEING								
	CA-KEY:*1	YES/NO							
ERDS-DAT:*1	YES/NO								
JOB LOG	YES/NO								

* Press **▶** key to move to the next menu of the same layer, and press **▼** key to move to the menu of one layer deeper.
 * The menus shown in '*1' are the e-RDS-related menus.

3.4 e-RDS Related Setting Details

1) e-RDS's Operation Mode [E-RDS SWITCH]

In service mode, referring to the "Service Mode Menu Tree", go to [E-RDS SWITCH] menu using **▶** key and **▼** key.

(1) Choose between [ON] or [OFF] using the **◀** and **▶** keys.



F-7-53

(2) Press [OK] key to determine the operation mode and go back to the previous screen.



F-7-54

- When the operation mode is determined, "=" will be displayed.
- OFF:When it is set to [OFF], e-RDS is not used. Default value is OFF.
- ON:When it is set to [ON], e-RDS is used.

2) UGW Address [UGW-ADDRESS] and UGW port [UGW-PORT]

Usually, the default values set in advance are used for the setting value of [UGW-ADDRESS] and [UGW-PORT]. Unless there is a special instruction, the default value should not be changed. If it should be changed, the communication with UGW may have an error. If [UGW-ADDRESS] and [UGW-PORT] are changed, the new setting will be enabled after power OFF/ON.

Therefore, usually, the setup is not necessary.

* If you change under a special instruction, perform the following procedure.

(1) Setting address for UGW

- In service mode, referring to the "Service Mode Menu Tree", go to [UGW-ADDRESS] menu using ► key and ▼ key.

```

E - R D S
  U G W   A D D R E S S
  
```

F-7-55

- Press ▼ key to enter the Setup Mode. (A character indicating the input mode (in the upper right corner of the screen) and the cursor are displayed.)
Enter UGW address (URL).

```

U G W - A D D R E S S      : a
h t t p : / /
  
```

F-7-56

Display to indicate an input mode

A:Alphabet capital letter

a:Alphabet small letter

1:Numerical character

- The cursor is shown at the first letter.

- Use ▲ and ▼ keys to select characters to enter.

- Press [Back] key to cancel what you entered and go back to the previous screen.

- Press [OK] key to determine what you entered and go back to the previous screen.

(2) Setting up the GW Port Number

- In service mode, referring to the "Service Mode Menu Tree", go to [UGW-PORT] menu using ► key and ▼ key.

```

E - R D S
  U G W   P O R T
  
```

F-7-57

- Press ▼ key to enter the Setup Mode. (A cursor is displayed.)

Enter a port number.

```

U G W - P O R T
                                0 0 0 0 0
  
```

F-7-58

- Use ▲ and ▼ keys to select characters to enter.

- Press [Back] key to cancel what you entered and go back to the previous screen.

- Press [OK] key to determine what you entered and go back to the previous screen.

* The actual setting value of UGW address [UGW-ADDRESS] and UGW port [UGW-PORT] are categorized as confidential information, so they are not described in this manual.

3) Communication Test [COM-TEST]

(1) In service mode, referring to the "Service Mode Menu Tree", go to [COM-TEST] menu using ► key and ▼ key.

```

C O M - T E S T
  Y E S
  
```

F-7-59

(2) Press [OK] key to start the test. ("=" is displayed at the start of the test.)

```

C O M - T E S T
= Y E S
  
```

F-7-60

(3) During the communication test, "CHECK NOW" is displayed.

```

C O M - T E S T
  C H E C K   N O W . .
  
```

F-7-61

- Once the communication test is started, it cannot be cancelled.(Other operation won't be accepted until the result is obtained.)

(4) If the communication test was successful, "CHECK RSLT:OK" is displayed.

```

C O M - T E S T
C H E C K   R S L T : O K
    
```

F-7-62

- Press ▲ key to exit this operation mode and go back to the top of [COM-TEST] menu.

(5) If the communication test was failed, "CHECK RSLT:NG" is displayed.

```

C O M - T E S T
C H E C K   R S L T : N G
    
```

F-7-63

- Press ▲ key to exit this operation mode and go back to the top of [COM-TEST] menu.

- If you cannot obtain the result after 30 seconds from the start of a communication test, the test is considered failed and the same screen will appear.

* When the communication test was successful, it is necessary to take the interval of 5 minutes before performing the next communication test.

4) Communication Log [COM-LOG]

Communication Error Information/Detailed Communication Error Information can be displayed on the screen at the time of a communication error with the Service Center (including proxy server error). When a communication error occurs, you can refer to this information to study how to deal with the problem.

* For the countermeasure corresponding to each Communication Error Information or Detailed Communication Error Information, see the list of error message in "4. Troubleshoot".

(1) In service mode, referring to the "Service Mode Menu Tree", go to [COM-LOG] menu using ► key and ▼ key.

```

E - R D S
C O M - L O G
    
```

F-7-64

(2) Press ▼ key, and communication error information is displayed. On the upper line of the LCD, a log number (01-30) and an error code are shown; on the bottom line, an occurrence date and time of the error is shown.

```

N o : 0 1      X X X X X X X X H
Y Y Y Y / M M / D D   H H : M M
    
```

F-7-65

- COM-LOG information can be saved up to 30 cases.

- Use Right and Left keys to change logs to display.

- Logs are displayed in the sequence of the time of occurrence. (Log number 1 is the latest log.)

- Press ▲ key to exit this operation mode and go back to the top of [COM-LOG] menu.

* If the Communication Error Information is not saved, the screen below will appear.

```

C O M - L O G
N O   L O G
    
```

F-7-66

- Press ▲ key to exit the communication error information screen and go back to the top of [COM-LOG] menu.

(3) Press ▼ key to display the Detailed Communication Error Information (maximum 128 characters).

1st-32nd characters of Detailed Communication Error Information are shown.

```

X X X X X X X X X X X X X X X X
X X X X X X X X X X X X X X X X
    
```

F-7-67

33rd-64th characters of Detailed Communication Error Information are shown.

```

X X X X X X X X X X X X X X X X
X X X X X X X X X X X X X X X X
    
```

F-7-68

65th-96th characters of Detailed Communication Error Information are shown.

```

X X X X X X X X X X X X X X X X
X X X X X X X X X X X X X X X X
    
```

F-7-69

97th-128th characters of Detailed Communication Error Information are shown.

```
X X X X X X X X X X X X X X X X X
X X X X X X X X X X X X X X X X X
```

F-7-70

- Use ◀ and ▶ keys to move among Screen and Screen. (Detailed Communication Error Information can be made with maximum 128 characters, however, even if the information is made up with 1 to 96 characters, all Screens are still displayed.)

- Press ▲ key to exit the Detailed Communication Error Information screen and go back to the Communication Error Information screen.

* If Detailed Communication Error Information does not exist, the screen below will appear.

```
N O   E R R O R   D E T A I L
```

F-7-71

- Press ▲ key to exit the Detailed Communication Error Information screen and go back to the Communication Error Information screen.

5) Initializing the e-RDS setting [ERDS-DAT]

Usually, the setup is not necessary.

Use this procedure when you want to reset the e-RDS settings to the factory default.

(1) In service mode, referring to the "Service Mode Menu Tree", go to [ERDS-DAT] menu using ▶ key and ▼ key.

```
E - R D S   D A T
N O
```

F-7-72

(2) Choose between YES/NO using ◀ and ▶ keys, and press [OK] key to set.

```
E - R D S   D A T
= Y E S
```

F-7-73

- Press [OK] key, and "=" will appear and the initializing process will begin.

[NO]: Do not initialize the e-RDS setting. Default value is [NO].

[YES]: Initialize the e-RDS setting.

6) Displaying the CA Certificate Information [VALIDITY]

For the secure communication between the device (e-RDS) and the UGW, an authentication technology from a certification authority is used. A license has been issued from the certification authority. For this reason, the devices are shipped with the CA (Certificate Authority) certificate enabled in advance to prove the license obtained.

Therefore, usually, the setup is not necessary.

To confirm that this CA certificate is valid or how long it will be valid, you can display the expiration date of the CA certificate information.

(1) In service mode, referring to the "Service Mode Menu Tree", go to [VALIDITY] menu using ▶ key and ▼ key.

```
C A - C E R T I F I C A T E
V A L I D I T Y
```

F-7-74

(2) Press ▼ key, and the expiration date of the CA certificate will be displayed.

```
V A L I D I T Y
Y Y Y Y / M M / D D
```

F-7-75

- Press ▲ key to exit the CA certificate expiration date display screen and go back to the top of [VALIDITY] menu.

* If the CA certificate is deleted, the screen below will appear.

```
V A L I D I T Y
N O T   I N S T A L L E D
```

F-7-76

- Press ▲ key to exit the CA certificate expiration date display screen and go back to the top of [VALIDITY] menu.

7) Deleting the CA Certificate [CA-KEY]

For the secure communication between the device (e-RDS) and the UGW, an authentication technology from a certification authority is used. A license has been issued from the certification authority. For this reason, the devices are shipped with the CA (Certificate Authority) certificate enabled in advance to prove the license obtained.

The device (e-RDS) uses this CA certificate to communicate with the UGW, thus CA must not be deleted.

Therefore, usually, the setup is not necessary.

* If you delete the CA certificate under a special instruction, perform the following procedure.

(1) In service mode, referring to the "Service Mode Menu Tree", go to [CA-KEY] menu using ► key and ▼ key.



F-7-77

(2) Choose between YES/NO using ◀ and ▶ keys, and press [OK] key to set.



F-7-78

- Press [OK] key, and "=" will appear and the initializing process will begin.

[NO]: Do not delete the CA certificate. Default value is [NO].

[YES]: Delete the CA certificate.

4. FAQ

T-7-180

No.	Question	Answer
Q1	Registration information of the device (E-RDS) is once deleted from the UGW server, and is re-registered after that. If a communication test is not carried out, then device information on UGW becomes invalid.	When registration of the device (e-RDS) is deleted from the UGW, the status will be changed to the communication test not completed because related information has lost from a database. Therefore, device information will also become invalid if that condition persists for seven days without carrying out the communication test. Hence, to avoid the invalid condition, carry out the communication test.
Q2	The communication test with the UGW server results NG!	The communication test might become NG in the following cases. - 1. Name resolution was failed due to an incorrect host name or DNS server has been halted. - 2. Network cable is blocked off. Network cable is broken. - 3. Proxy server settings are not correct.
Q3	Could you describe the timing of data transmitting from the device (e-RDS) to the UGW, and what data size is sent to the UGW?	The schedule of data transmitting, and the start time are determined by settings in the UGW side. The timing is once per 16 hours by default, and counter data size is maximum 1400 bytes.
Q4	Can I turn the device power off during the device (e-RDS) operation?	While operating the device (e-RDS), the power of the printer and network equipment such as HUB must be ON. If power OFF is needed, do not leave it OFF for a long time. An error such as "Device is busy, try later" could occur if the power supply of network equipment is made prolonged OFF.

5. Troubleshooting

T-7-181

No.	Condition detected	Action
1	The communication test has failed.	Check network conditions such as proxy server settings and so on. - Check the communication log from COM-LOG. -> Execute "Remedy" in the "Error message list". - Check whether RGW-ADDRESS or RGW-PORT settings have changed.

6. Error message list

Details of the errors and their remedies are as described below.
(The meaning of server indicates the UGW in this section)

T-7-182

No.	Error Message	Cause	Remedy
1	SUSPEND: Communication test is not performed	E-RDS has been booted up (device reboot) with E-RDS SWITCH = ON but the communication test had not yet been performed.	Perform the communication test [COMTEST] in service mode.
2	Event Registration is Failed	Event Registration is Failed Processing (event processing) within the device has failed.	Turn the device OFF/ ON. If the error persists, replace the device system software (firmware). (Upgrade)
3	URL Scheme error (not https)	The header of the URL of the registered UGW is not in https format. A "https://" input error.	Check that the value of UGW-ADR has been entered correctly as https://a01---.
4	Server connection error	An UGW connection error. Displayed in the event of a TCP/IP communication fault.	Check the network-related settings according to "No.1: Communication test is not performed" in "Troubleshooting".
5	URL server specified is illegal	A URL different to that specified by the UGW has been set. An URL address setting error.	Check that the value of UGW-ADR has been entered correctly as https://a01---.
6	Proxy connection error	Cannot connect to proxy server. Displayed when unable to connect to proxy server.	Check proxy server address and re-enter if necessary.
7	Proxy authentication error	Displayed when the authentication to the proxy server has failed.	Check the user name and password required in order to login to the proxy, and re-enter if necessary.
8	Server certificate error	Device's route certificate is unavailable.	Reinstall the latest device system software (firmware). (Upgrade)
9	Server certificate expired	The route certificate registered with the device has expired.	Check that the device time and date are correctly set. If the device time and date are correct, upgrade to the latest system software (firmware).
10	Unknown error	Some other kind of communication error has occurred.	Try again after a period of time. If the same error occurs again, check the UGW status with the UGW administrator.
11	SOAP Fault	SOAP communication error has occurred.	Check that the value of UGW-PORT is 443.
12	Server response error (NULL)	A UGW response error (when UGW error code processing has failed). A HTTPS communication error.	Try again after a period of time. If the same error persists, check the UGW status with the UGW administrator.
13	Server response error (Hexadecimal) [Error detailed in the UGW]:*1	A UGW response error. Displayed when communication with UGW has been successful, but an error of some sort has prevented UGW from responding.	Check an error code (hexadecimal) returned from the UGW, then retry after a period of time.
14	Device internal error	An internal device error. An error due to the device side.	Switch the device OFF/ ON. Or, replace the device system software. (Upgrade)
15	Server schedule is invalid	During the communication test, there has been some kind of error in the schedule values passed from UGW.	When the error occurs, report the details to the support department. Then, after the UGW side has responded, retry the communication test.
16	Server response time out	UGW response time out. Due to network congestion, etc., the response from UGW does not come within the specified time.	If this error occurs when the communication test is being run, wait some time and rerun the test.
17	Server not found	There is a mistake in the UGW URL, and UGW cannot be accessed.	Check that the value of Service mode > E-RDS/RGW-ADR is https://a01---.
18	E-RDS switch is set OFF	E-RDS is disabled.	Set E-RDS SWITCH = ON, and run COM-TEST in service mode.
19	Server schedule is not exist	Server schedule does not exist. Blank schedule data has been received from UGW.	Check the device settings status with the UGW administrator.
20	Network is not ready, try later	Network-related settings have not been made for the device.	Make network-related settings properly for the device (printer).
21	URL error	A URL setting error. Non-URL text string entered in URL field.	Check that the value of UGW-ADR is https://a01---.
22	Proxy address resolution error	A proxy server address resolution error.	Check that the proxy server name is correct.
23	Server certificate verify error	The server certificate verification (URL check) error.	Check that the value of UGW-ADR is https://a01---.
24	Server address resolution error	UGW address resolution has failed.	Check that the value of UGW-ADR is https:// a01---.

*1:[Hexadecimal] indicates an error code returned from the UGW in hexadecimal.

7. Service cautions

After performing the following service actions, it is necessary to perform the resetting of the e-RDS.
Failure to do so will result that the counter transmitting value to the UGW may become unusual.

- System software (firmware) upgrade

- After replacing the main controller board, the following settings in service mode must not be changed unless there are specific instructions to do so. Changing these values will cause error in communication with the UGW.

(Initial values)

UGW-PORT: 443

UGW-ADDRESS: https://a01---.

7.1.15 Viewing PRINT INF

iPF6300 / iPF6350

a) PRINT INF item detail

The details of each PRINT INF item displayed when performing [SERVICE MODE] > [DISPLAY] > [PRINTINF] are as follows:

T-7-183

Print item	Print content	Printed value	
SYSTEM	S/N	Serial number of printer	characters/numerals of 8-byte
	TYPE	Type setting on main controller PCB	24
	LF TYPE	Feed roller type	0: old type roller 1: new type roller
	TMP	Ambient temperature	Unit: Centigrade degree
	RH	Ambient humidity	Unit: %
	SIZE LF	Detected size of loaded media (feed direction)	mm (0 is always detected for the roll media.)
	SIZE CR	Detected size of loaded media (carriage scan direction)	mm
	AFTER INST.	Number of days since initial installation	Unit: Day(s)
HEAD	S/N L	Serial number of printhead L	characters/numerals (8 digits)
	S/N R	Serial number of printhead R	characters/numerals (8 digits)
	LOT L	Lot number of printhead L	characters/numerals (8 digits)
	LOT R	Lot number of printhead R	characters/numerals (8 digits)
INK	Y, PC, C, PGY, GY, BK, PM, M, MBK, R, G, B	Number of days passed since the ink tank was installed	Unit: Days
WARNING	01-20	Warning history (up to 20 events)	Number: Lowest is the most recent Date: mm/dd Time: mm/ss Error code: Last 4 digits Cumulative number of printed media (equivalent of A4)
ERROR	01-20	Error history (up to 20 events)	Number: Lowest is the most recent Date: mm/dd Time: mm/ss Error code: Last 4 digits Cumulative number of printed media (equivalent of A4)

Print item	Print content	Printed value	
JAM	01-05	JAM log (5 records)	Number: Lowest is the most recent Date: mm/dd Time: mm/ss Error code: Last 4 digits
	01	Jam type	1: CR error 2: Jam 3: Feed failure (delay) 4: Cut failure *: Unknown
	02	Media format	1: Roll media 2: Cut sheet (manual feed from top) 3: Cut sheet (manual feed from front) 4: Cassette *: Unknown
	03	Jam timing	1: Feed 2: Print 3: Eject *: Unknown
	04	Width detection OFF mode	1: ON 2: OFF *: Unknown
	05	Head height	0: SL (1.0mm) 1: L (1.4mm) 2: M1 (1.8mm) 3: M2 (2.0mm) 4: M3 (2.2mm) 5: H (3.2mm) *: Unknown
	06	(Not Used)	
	07	(Not Used)	
	08	Media passing environment	#####
	09	Borderless/Bordered	1: Bordered printing 2: Borderless printing *: Unknown
	10	Spur position	1: Top 2: Down *: Unknown
	11	Print mode label No.	Display print mode *: Unknown
	12	Media width	Display media width (Unit: mm) *: Unknown
13	Media type	Display media name *: Unknown	
INK CHK	Y, PC, C, PGY, GY, BK, PM, M, MBK, R, G, B	Refill log Print whether disable remaining ink detection was previously set	0: Disable remaining ink detection was never set 1: Disable remaining ink detection was set at least once

T-7-185

Print item		Print content	Printed value
COUNTER	PRINTER	POWER ON	Cumulative power-on time Unit: hours
		SLEEP ON	Cumulative sleep-on time Unit: hours
		CUTTER	Number of cutting operations Unit: times
		WIPE	Number of wiping operations Unit: times
		W-INK	Remaining capacity of the maintenance cartridge Unit: %
		PDL	Cumulative number of printed media according to PDL GARO: xx sheets HP-GL/2: xx sheets
	CARRIAGE	PRINT	Cumulative printing time Unit: hours
		DRIVE	Cumulative carriage moving time Unit: hours
		CR-COUNT	Cumulative carriage scan count (count as 1 by moving back and forth) Unit: times
		CR-DIST.	Cumulative carriage scan distance (count as 1 by moving 210mm) Unit: times
		PRINT-COUNT	Cumulative print end count (count as 1 by capping) Unit: times
	PURGE	CLN-A	Cumulative number of automatic cleaning operations
		1	Cumulative number of automatic cleaning 1 (normal suction) operations Unit: times
		2	Cumulative number of automatic cleaning 2 (ink level adjusting) operations
		3	Cumulative number of automatic cleaning 3 (initial filling) operations
		6	Cumulative number of automatic cleaning 6 (strong normal suction) operations
		7	Cumulative number of automatic cleaning 7 (aging) operations
		8	Cumulative number of automatic cleaning 8 (flashing) operations
		10	Cumulative number of automatic cleaning 10 (ink filling after secondary transportation) operations
		11	Cumulative number of automatic cleaning 11 (ink filling after head replacement) operations
		15	Cumulative number of automatic cleaning 15 (dot count small suction) operations
		16	Cumulative number of automatic cleaning 16 (sedimented ink agitation) operations
		17	Cumulative number of automatic cleaning 17 (small suction) operations
		TTL	Total number of automatic cleaning operations
		CLN-M	Cumulative number of manual cleaning 1 operations
		1	Cumulative number of manual cleaning 1 (normal suction) operations Unit: times
		4	Cumulative number of manual cleaning 4 (ink draining from head after head replacement) operations
		5	Cumulative number of manual cleaning 5 (ink draining from head and tube before transportation) operations
		6	Cumulative number of manual cleaning 6 (normal strong suction) operations
		TTL	Total number of manual cleaning operations

Print item		Print content	Printed value
COUNTER	CLEAR	INK CONSUME	Cumulative count of ink section consumption amount clearing
		MTC EXC.	Cumulative count of maintenance cartridge replacement count clearing
		HEAD L EXC.	Cumulative count of printhead L replacement count clearing
		HEAD R EXC.	Cumulative count of printhead R replacement count clearing
		PARTS Wia1 EXC.	Cumulative count of unit Wia-1(suction fan) replacement count clearing
		PARTS Wib1 EXC.	Cumulative count of unit Wib-1(platen duct) replacement count clearing
		PARTS CR1 EXC.	Cumulative count of unit CR-1(carriage unit bushing) replacement count clearing
		PARTS CR2 EXC.	Cumulative count of unit CR-2(flexible cable unit) replacement count clearing
		PARTS CR3 EXC.	Cumulative count of unit CR-3(linear encoder sensor/linear scale/shaft cleaner) replacement count clearing
		PARTS CR4 EXC.	Cumulative count of unit CR-4(carriage height changing cam) replacement count clearing
		PARTS CR5 EXC.	Cumulative count of unit CR-5(multi sensor) replacement count clearing
		PARTS SP1 EXC.	Cumulative count of unit SP-1(ink tube unit) replacement count clearing
		PARTS PG1 EXC.	Cumulative count of unit PG-1(purge unit) replacement count clearing
		PARTS HMa1 EXC.	Cumulative count of unit HMa-1(head management sensor) replacement count clearing
		PARTS PL1 EXC.	Cumulative count of unit PL-1(feed motor) replacement count clearing
		PARTS PS1 EXC.	Cumulative count of unit PS-1(spur) replacement count clearing
		PARTS Mi1 EXC.	Cumulative count of unit Mi-1(mist fan/mist filter) replacement count clearing
		PARTS MS1 EXC.	Cumulative count of unit MS-1(multi sensor) replacement count clearing
PARTS CT1 EXC.	Cumulative count of unit CT-1(cutter) replacement count clearing		
	FACTORY CNT.	For factory	

T-7-187

Print item		Print content	Printed value
COUNTER	EXCHANGE	MTC EXC.	Maintenance cartridge replacement count
		HEAD L EXC.	Printhead L replacement count
		HEAD R EXC.	Printhead R replacement count
		BOARD EXC.(M/B)	Main controller PCB replacement count
		PARTS Wia1 EXC.	Wia-1(suction fan) replacement count
		PARTS Wib1 EXC.	Wib-1(platen duct) replacement count
		PARTS CR1 EXC.	CR-1(carriage unit bushing) replacement count
		PARTS CR2 EXC.	CR-2(flexible cable unit) replacement count
		PARTS CR3 EXC.	CR-3(linear encoder sensor/linear scale/shaft cleaner) replacement count
		PARTS CR4 EXC.	CR-4(carriage height changing cam) replacement count
		PARTS CR5 EXC.	CR-5(multi sensor) replacement count
		PARTS SP1 EXC.	SP-1(ink tube unit) replacement count
		PARTS PG1 EXC.	PG-1(purge unit) replacement count
		PARTS HMa1 EXC.	HMa-1(head management sensor) replacement count
		PARTS PL1 EXC.	PL-1(feed motor) replacement count
		PARTS PS1 EXC.	PS-1(spur) replacement count
		PARTS Mi1 EXC.	Mi-1(mist fan/mist filter) replacement count
		PARTS MS1 EXC.	MS-1(multi sensor) replacement count
PARTS CT1 EXC.	CT-1(cutter) replacement count		

Unit: times

Print item		Print content	Printed value	
COUNTER	DETAIL-CNT	MOVE PRINTER	Count of secondary transportation	Unit: times
		MEDIACONFIG-CNT	Count of media registered by media editor	
		N-INKCHK Y, PC, C, PGY, GY, BK, PM, M, MBK, R, G, B	Count of turning off the ink remaining level detection for each color	
	INK-USE1	INK Y, PC, C, PGY, GY, BK, PM, M, MBK, R, G, B	Cumulative consumption amount of generic ink	Unit: ml
		TTL	Total amount of the cumulative consumption of generic ink	
		NINK Y, PC, C, PGY, GY, BK, PM, M, MBK, R, G, B	Cumulative consumption amount of refilled ink	
		TTL	Total amount of the cumulative consumption of refilled ink	
	INK-USE2	INK Y, PC, C, PGY, GY, BK, PM, M, MBK, R, G, B	Consumption amount of generic ink of the currently installed ink tank.	Unit: ml
		TTL	Total consumption amount of generic ink of the currently installed ink tanks	
		NINK Y, PC, C, PGY, GY, BK, PM, M, MBK, R, G, B	Consumption amount of refilled ink of the currently installed ink tank	
		TTL	Total consumption amount of refilled ink of the currently installed ink tanks	
	INK-EXC	INK Y, PC, C, PGY, GY, BK, PM, M, MBK, R, G, B	Cumulative count of generic ink tank replacement	Unit: times
		TTL	Total amount of the cumulative count of generic ink tank replacement	
NINK Y, PC, C, PGY, GY, BK, PM, M, MBK, R, G, B		Cumulative count of refilled ink tank replacement		
TTL		Total amount of the cumulative count of refilled ink tank replacement		

T-7-189

Print item		Print content		Printed value
COUNTER	MEDIA 1-7	NAME	Media type	
		TTL	Total amount of cumulative print area of roll media and cut sheet	Unit: square/meter, square/feet
		ROLL	Cumulative print area of roll media	
		CUTSHEET	Cumulative print area of cut sheet	
	MEDIA OTHER	NAME	OTHER	OTHER
		TTL	Total amount of cumulative print area of roll media and cut sheet	Unit: square/meter, square/feet
		ROLL	Cumulative print area of roll media	
		CUTSHEET	Cumulative print area of cut sheet	
	MEDIA SIZE1 ROLL P-SQ/P-CNT	24-36	Cumulative print area of roll media equal to or larger than 24 inches but less than 36 inches (physical size)	
		17-24	Cumulative print area of roll media equal to or larger than 17 inches but less than 24 inches (physical size)	
		0-17	Cumulative print area of roll media less than 17 inches (physical size)	
	MEDIA SIZE2 ROLL D-SQ/D-CNT	24-36	Cumulative print area of roll media equal to or larger than 24 inches but less than 36 inches (data size)	
		17-24	Cumulative print area of roll media equal to or larger than 17 inches but less than 24 inches (data size)	
		0-17	Cumulative print area of roll media less than 17 inches (data size)	
	MEDIA SIZE1 CUT P-SQ/P-CNT	24-36	Cumulative print area of cut sheet equal to or larger than 24 inches but less than 36 inches (physical size)	
		17-24	Cumulative print area of cut sheet equal to or larger than 17 inches but less than 24 inches (physical size)	
		0-17	Cumulative print area of cut sheet less than 17 inches (physical size)	
	MEDIA SIZE2 CUT D-SQ/D-CNT	24-36	Cumulative print area of cut sheet equal to or larger than 24 inches but less than 36 inches (data size)	
		17-24	Cumulative print area of cut sheet equal to or larger than 17 inches but less than 24 inches (data size)	
		0-17	Cumulative print area of cut sheet less than 17 inches (data size)	
	HEAD DOT CNT.1	Y, PC, C, PGY, GY, BK, PM, M, MBK, R, G, B	Dot counts of each colors of the currently installed printhead	Unit: (x 1,000,000) dots
TTL		Total dot counts of each colors of the currently installed printhead		
HEAD DOT CNT.2	Y, PC, C, PGY, GY, BK, PM, M, MBK, R, G, B	Cumulative dot counts of each colors	Unit: (x 1,000,000) dots	
	TTL	Total cumulative dot counts of each colors		

Print item	Print content	Printed value	
HEAD INF.1 [Installed head]	01	Date & time installed (last 4 times)	YY/MM/DD Display order: Installed date (last) -> Installed date (2nd to last) -> Installed date (3rd to last) -> Installed date (initial)
	02	Removal date & time (last 3 times)	YY/MM/DD Display order: Last -> 2nd to last -> 3rd to last
	03	Main unit serial No. (last 3 times)	Display order: Last -> 2nd to last -> 3rd to last
	04	CLN_A (auto) count	Unit: Times
	05	CLN_A (manual) count	
	06	Cleaning B (auto/left cap) count	
	07	Cleaning B (auto/right cap) count	
	08	CLN_B (manual) count	
	09	Head replacement ink drain count	
	10	Secondary transport ink drain count	
	11	Secondary transport ink fill count	
	12	Ink filling after head replacement count	
	13	Recovery suction	
	14	Number of sheets printed	Unit: Sheets (A4 equivalent sheets)
	15	Error log	YY/MM/DD xxxx (last 4 digits) 01: Last, 02: 2nd to last, 03: 3rd to last, ..., 20: 20th to last
	16	Refill tank usage log (per chip)	A: x, B: x, C: x, D: x, E: x, F: x
	17	Firmware version (last 3)	XX.XX YY/MM/DD Display order: Last -> 2nd to last -> 3rd to last
	18	Head highest temperature (per chip)	A: xxx, B: xxx, C: xxx, D: xxx, E: xxx, F: xxx
	19	Number of non-discharging nozzles (per nozzle row) chip A row A, chip A row B to chip F row A, chip F row B	AA: xxx, AB: xxx, BA: xxx, BB: xxx, CA: xxx, CB: xxx, DA: xxx, DB: xxx, EA: xxx, EB: xxx, FA: xxx, FB: xxx
	20	EEPROM format Ver	
HEAD INF.2 [Head installed 2nd to last]	01	Date & time installed (last 4 times)	YY/MM/DD Display order: Installed date (last) -> Installed date (2nd to last) -> Installed date (3rd to last) -> Installed date (initial)
	02	Removal date & time (last 3 times)	YY/MM/DD Display order: Last -> 2nd to last -> 3rd to last
	03	Main unit serial No. (last 3 times)	Display order: Last -> 2nd to last -> 3rd to last
	04	CLN_A (auto) count	Unit: Times
	05	CLN_A (manual) count	
	06	Cleaning B (auto/left cap) count	
	07	Cleaning B (auto/right cap) count	
	08	CLN_B (manual) count	
	09	Head replacement ink drain count	
	10	Secondary transport ink drain count	
	11	Secondary transport ink fill count	
	12	Ink filling after head replacement count	
	13	Recovery suction	
	14	Number of sheets printed	Unit: Sheets (A4 equivalent sheets)
	15	Error log	YY/MM/DD xxxx (last 4 digits) 01: Last, 02: 2nd to last, 03: 3rd to last, ..., 20: 20th to last
	16	Refill tank usage log (per chip)	A: x, B: x, C: x, D: x, E: x, F: x
	17	Firmware version (last 3)	XX.XX YY/MM/DD Display order: Last -> 2nd to last -> 3rd to last
	18	Head highest temperature (per chip)	A: xxx, B: xxx, C: xxx, D: xxx, E: xxx, F: xxx
	19	Number of non-discharging nozzles (per nozzle row) chip A row A, chip A row B to chip F row A, chip F row B	AA: xxx, AB: xxx, BA: xxx, BB: xxx, CA: xxx, CB: xxx, DA: xxx, DB: xxx, EA: xxx, EB: xxx, FA: xxx, FB: xxx
	20	EEPROM format Ver	

T-7-191

Print item		Print content	Printed value
PARTS CNT.	[Value of each parts counter]	Status	OK/W1/W2/E
		Number of days after set	Unit: Days
		Count	
		Life threshold	
		Usage	Unit: %
		Cumulative count	
COGFF	CONDITION	Cogging FF result	0: Disabled 1: Enabled 2: Check required 3: Adjust required
	PARAM0-F	Parameters 1	REF: Motor error (6 digits) PHASE: Phase (3 digits) AMP: Amplitude (3 digits) RATE: Decay rate (3 digits)
	PARAM0-B	Parameters 2	REF: Motor error (6 digits) PHASE: Phase (3 digits) AMP: Amplitude (3 digits) RATE: Decay rate (3 digits)
LF SCALE adjustment value (user value)	LF-A	LF8 pass	
	LF-B	LF1 pass	
	SCALE-A	Scale clean	
	SCALE-B	Scale fast	
PV AUTO JUDGE		Ink reduction mode	ON (NORMAL/LOW only when ON)/Number of times OFF is entered

b) Sample Layout

PRINT INF layout is shown below.

```
1/5
Canon imagePROGRAF iPFxxx PRINT INF
Firm:xx.xx Boot:xx.xx MIT(DBF):x.xx MIT(DB):x.xx
S/N:xxxxxxxx Date:yyyy/mm/dd
SYSTEM
S/N:xxxxxxxx TYPE:12 -LF:1 TMP:xx RH:xx SIZE-LF:xxxxx.x -CR:xxxxx.x AFTER INST:xxxx x
HEAD                IN                K
S/N:xxxxxxxx LOT:xxxxxxxx C:xxxxxx M:xxxxxx Y:xxxxxx MBK:xxxxxx MBK2:xxxxxx BK:xxxxxx
WARNING
01:MM/DD HH:MM xxxxxxxx-xxxx xxxxxxxx 02:MM/DD HH:MM xxxxxxxx-xxxx xxxxxxxx x
03:MM/DD HH:MM xxxxxxxx-xxxx xxxxxxxx 04:MM/DD HH:MM xxxxxxxx-xxxx xxxxxxxx
05:MM/DD HH:MM xxxxxxxx-xxxx xxxxxxxx 06:MM/DD HH:MM xxxxxxxx-xxxx xxxxxxxx
07:MM/DD HH:MM xxxxxxxx-xxxx xxxxxxxx 08:MM/DD HH:MM xxxxxxxx-xxxx xxxxxxxx
09:MM/DD HH:MM xxxxxxxx-xxxx xxxxxxxx 10:MM/DD HH:MM xxxxxxxx-xxxx xxxxxxxx
11:MM/DD HH:MM xxxxxxxx-xxxx xxxxxxxx 12:MM/DD HH:MM xxxxxxxx-xxxx xxxxxxxx
13:MM/DD HH:MM xxxxxxxx-xxxx xxxxxxxx 14:MM/DD HH:MM xxxxxxxx-xxxx xxxxxxxx
15:MM/DD HH:MM xxxxxxxx-xxxx xxxxxxxx 16:MM/DD HH:MM xxxxxxxx-xxxx xxxxxxxx
17:MM/DD HH:MM xxxxxxxx-xxxx xxxxxxxx 18:MM/DD HH:MM xxxxxxxx-xxxx xxxxxxxx
19:MM/DD HH:MM xxxxxxxx-xxxx xxxxxxxx 20:MM/DD HH:MM xxxxxxxx-xxxx xxxxxxxx
ERROR
01:MM/DD HH:MM xxxxxxxx-xxxx xxxxxxxx 02:MM/DD HH:MM xxxxxxxx-xxxx xxxxxxxx x
03:MM/DD HH:MM xxxxxxxx-xxxx xxxxxxxx 04:MM/DD HH:MM xxxxxxxx-xxxx xxxxxxxx
05:MM/DD HH:MM xxxxxxxx-xxxx xxxxxxxx 06:MM/DD HH:MM xxxxxxxx-xxxx xxxxxxxx
07:MM/DD HH:MM xxxxxxxx-xxxx xxxxxxxx 08:MM/DD HH:MM xxxxxxxx-xxxx xxxxxxxx
09:MM/DD HH:MM xxxxxxxx-xxxx xxxxxxxx 10:MM/DD HH:MM xxxxxxxx-xxxx xxxxxxxx
11:MM/DD HH:MM xxxxxxxx-xxxx xxxxxxxx 12:MM/DD HH:MM xxxxxxxx-xxxx xxxxxxxx
13:MM/DD HH:MM xxxxxxxx-xxxx xxxxxxxx 14:MM/DD HH:MM xxxxxxxx-xxxx xxxxxxxx x
15:MM/DD HH:MM xxxxxxxx-xxxx xxxxxxxx 16:MM/DD HH:MM xxxxxxxx-xxxx xxxxxxxx x
17:MM/DD HH:MM xxxxxxxx-xxxx xxxxxxxx 18:MM/DD HH:MM xxxxxxxx-xxxx xxxxxxxx
19:MM/DD HH:MM xxxxxxxx-xxxx xxxxxxxx 20:MM/DD HH:MM xxxxxxxx-xxxx xxxxxxxx x
JAM
01:MM/DD HH:MM xxxx xxxxxxxx
01:x 02:x 03:x 04:x 05:xx 06:x 07:x 08:x
09:x 10:xxx 11:media_sizexxxxxx 12:media_namexxxxxx
02:MM/DD HH:MM xxxx xxxxxxxx
01:x 02:x 03:x 04:x 05:xx 06:x 07:x 08:x
09:x 10:xxx 11:media_sizexxxxxx 12:media_namexxxxxx
03:MM/DD HH:MM xxxx xxxxxxxx
01:x 02:x 03:x 04:x 05:xx 06:x 07:x 08:x
09:x 10:xxx 11:media_sizexxxxxx 12:media_namexxxxxx
04:MM/DD HH:MM xxxx xxxxxxxx x
01:x 02:x 03:x 04:x 05:xx 06:x 07:x 08:x
09:x 10:xxx 11:media_sizexxxxxx 12:media_namexxxxxx
05:MM/DD HH:MM xxxx xxxxxxxx x
01:x 02:x 03:x 04:x 05:xx 06:x 07:x 08:x
09:x 10:xxx 11:media_sizexxxxxx 12:media_namexxxxxx
```

```

2/5
Canon imagePROGRAF iPFxxx PRINT INF
Firm:xx.xx Boot:xx.xx MIT(DBF):x.xx MIT(DB):x.xx
S/N:xxxxxxx Date:yyyy/mm/dd
INK CHECK
C:x M:x Y:x MBK:x MBK2:x BK:x
COUNTER
PRINTER
LIFE-TTL:xxxxxx LIFE-ROLL:xxxxxx LIFE-CUTSHEET:xxxxxx
LIFE A:xxxxxx B:xxxxxx C:xxxxxx D:xxxxxx E:xxxxxx F:xxxxxx
POWER-ON:xxxxxx SLEEP-ON:xxxxxx CUTTER:xxxxxx WIPE:xxxxxx W-INK:xxxxxx
PDL: GARO:xxxxxx HP-GL/2:xxxxxx
CARRIAGE
PRINT:xxxxxx DRIVE:xxxxxx CR-COUNT:xxxxxx CR-DIST.:xxxxxx PRINT-COUNT:xxxxxx
PURGE
CLN-A : 1:xxxxx 2:xxxxx 3:xx 6:xxxx 7:xxx 10:xxx 11:xxx 15:xxx 16:xxxxx 17:xxxxx TTL:xxxxxx
CLN-M : 1:xxxxx 4:xxx 5:xx 6:xxxxx TTL:xxxxx
CLEAR
INK CONSUME:xxx MTC EXC.:xxx HEAD EXC.:xxx
PARTS CR1 EXC.:xx PARTS CR2 EXC.:xx PARTS CR3 EXC.:xx PARTS CR4 EXC.:xx PARTS CR5 EXC.:xx
PARTS SP1 EXC.:xx PARTS PG1 EXC.:xx PARTS HMa1 EXC.:xx PARTS MT1 EXC.:xx PARTS PL1 EXC.:xx
PARTS Mi1 EXC.:xx PARTS CT1 EXC.:xx PARTS WF1 EXC.:xx PARTS WF2 EXC.:xx
FACTORY CNT.:xx
EXCHANGE
MTC EXC.:xxx HEAD EXC.:xxx BOARD EXC.(M/B):xx
PARTS CR1 EXC.:xx PARTS CR2 EXC.:xx PARTS CR3 EXC.:xx PARTS CR4 EXC.:xx PARTS CR5 EXC.:xx
PARTS SP1 EXC.:xx PARTS PG1 EXC.:xx PARTS HMa1 EXC.:xx PARTS MT1 EXC.:xx PARTS PL1 EXC.:xx
PARTS Mi1 EXC.:xx PARTS CT1 EXC.:xx PARTS WF1 EXC.:xx PARTS WF2 EXC.:xx
DETAIL-CNT
MOVE PRINTER:xxx MEDIACONFIG-CNT:xxx
N-INKCHK: C:xxxx M:xxxx Y:xxxx MBK:xxxx MBK2:xxxx BK:xxxx
INK-USE1
INK C:xxxx.xml M:xxxx.xml Y:xxxx.xml MBK:xxxx.xml MBK2:xxxx.xml BK:xxxx.xml
TTL:xxxxxx.xml
NINK C:xxxx.xml M:xxxx.xml Y:xxxx.xml MBK:xxxx.xml MBK2:xxxx.xml BK:xxxx.xml
TTL:xxxxxx.xml
INK-USE2
INK C:xxxx.xml M:xxxx.xml Y:xxxx.xml MBK:xxxx.xml MBK2:xxxx.xml BK:xxxx.xml
TTL:xxxxxx.xml
NINK C:xxxx.xml M:xxxx.xml Y:xxxx.xml MBK:xxxx.xml MBK2:xxxx.xml BK:xxxx.xml
TTL:xxxxxx.xml
INK-EXC
INK C:xxxx M:xxxx Y:xxxx MBK:xxxx MBK2:xxxx BK:xxxx
TTL:xxxxx
NINK C:xxxx M:xxxx Y:xxxx MBK:xxxx MBK2:xxxx BK:xxxx
TTL:xxxxx

```

3/5

Canon imagePROGRAF iPFxxx PRINT INF

Firm:xx.xx Boot:xx.xx MIT(DBF):x.xx MIT(DB):x.xx

S/N:xxxxxxx Date:yyyy/mm/dd

NAME : xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	NAME : xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
TTL : xxxxxxx.x m2 xxxxxxx.x sq.f	TTL : xxxxxxx.x m2 xxxxxxx.x sq.f
ROLL : xxxxxxx.x m2 xxxxxxx.x sq.f	ROLL : xxxxxxx.x m2 xxxxxxx.x sq.f
CUTSHEET : xxxxxxx.x m2 xxxxxxx.x sq.f	CUTSHEET : xxxxxxx.x m2 xxxxxxx.x sq.f
MEDIA 3	MEDIA 4
NAME : xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	NAME : xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
TTL : xxxxxxx.x m2 xxxxxxx.x sq.f	TTL : xxxxxxx.x m2 xxxxxxx.x sq.f
ROLL : xxxxxxx.x m2 xxxxxxx.x sq.f	ROLL : xxxxxxx.x m2 xxxxxxx.x sq.f
CUTSHEET : xxxxxxx.x m2 xxxxxxx.x sq.f	CUTSHEET : xxxxxxx.x m2 xxxxxxx.x sq.f
MEDIA 5	MEDIA 6
NAME : xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	NAME : xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
TTL : xxxxxxx.x m2 xxxxxxx.x sq.f	TTL : xxxxxxx.x m2 xxxxxxx.x sq.f
ROLL : xxxxxxx.x m2 xxxxxxx.x sq.f	ROLL : xxxxxxx.x m2 xxxxxxx.x sq.f
CUTSHEET : xxxxxxx.x m2 xxxxxxx.x sq.f	CUTSHEET : xxxxxxx.x m2 xxxxxxx.x sq.f
MEDIA 7	MEDIA OTHER
NAME : xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	NAME : xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
TTL : xxxxxxx.x m2 xxxxxxx.x sq.f	TTL : xxxxxxx.x m2 xxxxxxx.x sq.f
ROLL : xxxxxxx.x m2 xxxxxxx.x sq.f	ROLL : xxxxxxx.x m2 xxxxxxx.x sq.f
CUTSHEET : xxxxxxx.x m2 xxxxxxx.x sq.f	CUTSHEET : xxxxxxx.x m2 xxxxxxx.x sq.f

MEDIA SIZE1 ROLL P-SQ/P-CNT

36-44: xxxxxxx.x m2 xxxxxxx.x sq.f	0
24-36: xxxxxxx.x m2 xxxxxxx.x sq.f	0
17-24: xxxxxxx.x m2 xxxxxxx.x sq.f	0
0-17: xxxxxxx.x m2 xxxxxxx.x sq.f	0

MEDIA SIZE2 ROLL D-SQ/D-CNT

36-44: xxxxxxx.x m2 xxxxxxx.x sq.f	0
24-36: xxxxxxx.x m2 xxxxxxx.x sq.f	0
17-24: xxxxxxx.x m2 xxxxxxx.x sq.f	0
0-17: xxxxxxx.x m2 xxxxxxx.x sq.f	0

MEDIA SIZE1 CUT P-SQ/P-CNT

36-44: xxxxxxx.x m2 xxxxxxx.x sq.f	0
24-36: xxxxxxx.x m2 xxxxxxx.x sq.f	0
17-24: xxxxxxx.x m2 xxxxxxx.x sq.f	0
0-17: xxxxxxx.x m2 xxxxxxx.x sq.f	0

MEDIA SIZE2 CUT D-SQ/D-CNT

36-44: xxxxxxx.x m2 xxxxxxx.x sq.f	0
24-36: xxxxxxx.x m2 xxxxxxx.x sq.f	0
17-24: xxxxxxx.x m2 xxxxxxx.x sq.f	0
0-17: xxxxxxx.x m2 xxxxxxx.x sq.f	0

4/5

Canon imagePROGRAF iPFxxx PRINT INF

Firm:xx.xx Boot:xx.xx MIT(DBF):x.xx MIT(DB):x.xx

S/N:xxxxxxx Date:yyyy/mm/dd

HEAD DOT CNT.1

C:xxxxxxxx M:xxxxxxxx Y:xxxxxxxx MBK:xxxxxxxx MBK2:xxxxxxxx BK:xxxxxxxx

TTL:xxxxxxxxxxxxxxxx

HEAD DOT CNT.2

C:xxxxxxxx M:xxxxxxxx Y:xxxxxxxx MBK:xxxxxxxx MBK2:xxxxxxxx BK:xxxxxxxx

TTL:xxxxxxxxxxxxxxxx

HEAD INF.1

1:YY/MM/DD YY/MM/DD YY/MM/DD YY/MM/DD 2:YY/MM/DD YY/MM/DD YY/MM/DD

3:xxxxxxxx xxxxxxxx xxxxxxxx

4:xxxxx 5:xxxxx 6:xxxxx 7:xxxxx 8:xxx 9:xxx 10:xxx 11:xxx 12:xxx

13:xxxxxxxx 19:1

14: 1:YY/MM/DD xxxxxxxx-xxxx 2:YY/MM/DD xxxxxxxx-xxxx 3:YY/MM/DD xxxxxxxx-xxxx

4:YY/MM/DD xxxxxxxx-xxxx 5:YY/MM/DD xxxxxxxx-xxxx 6:YY/MM/DD xxxxxxxx-xxxx

7:YY/MM/DD xxxxxxxx-xxxx 8:YY/MM/DD xxxxxxxx-xxxx 9:YY/MM/DD xxxxxxxx-xxxx

10:YY/MM/DD xxxxxxxx-xxxx 11:YY/MM/DD xxxxxxxx-xxxx 12:YY/MM/DD xxxxxxxx-xxxx

13:YY/MM/DD xxxxxxxx-xxxx 14:YY/MM/DD xxxxxxxx-xxxx 15:YY/MM/DD xxxxxxxx-xxxx

16:YY/MM/DD xxxxxxxx-xxxx 17:YY/MM/DD xxxxxxxx-xxxx 18:YY/MM/DD xxxxxxxx-xxxx

19:YY/MM/DD xxxxxxxx-xxxx 20:YY/MM/DD xxxxxxxx-xxxx

15:A:x B:x C:x D:x E:x F:x

16:XX.XX YY/MM/DD XX.XX YY/MM/DD XX.XX YY/MM/DD

17:A:xxx B:xxx C:xxx D:xxx E:xxx F:xxx

18:AA:xxx AB:xxx BA:xxx BB:xxx CA:xxx CB:xxx DA:xxx DB:xxx EA:xxx EB:xxx FA:xxx FB:xxx

HEAD INF.2

1:YY/MM/DD YY/MM/DD YY/MM/DD YY/MM/DD 2:YY/MM/DD YY/MM/DD YY/MM/DD

3:xxxxxxxx xxxxxxxx xxxxxxxx

4:xxxxx 5:xxxxx 6:xxxxx 7:xxxxx 8:xxx 9:xxx 10:xxx 11:xxx 12:xxx

13:xxxxxxxx 19:1

14: 1:YY/MM/DD xxxxxxxx-xxxx 2:YY/MM/DD xxxxxxxx-xxxx 3:YY/MM/DD xxxxxxxx-xxxx

4:YY/MM/DD xxxxxxxx-xxxx 5:YY/MM/DD xxxxxxxx-xxxx 6:YY/MM/DD xxxxxxxx-xxxx

7:YY/MM/DD xxxxxxxx-xxxx 8:YY/MM/DD xxxxxxxx-xxxx 9:YY/MM/DD xxxxxxxx-xxxx

10:YY/MM/DD xxxxxxxx-xxxx 11:YY/MM/DD xxxxxxxx-xxxx 12:YY/MM/DD xxxxxxxx-xxxx

13:YY/MM/DD xxxxxxxx-xxxx 14:YY/MM/DD xxxxxxxx-xxxx 15:YY/MM/DD xxxxxxxx-xxxx

16:YY/MM/DD xxxxxxxx-xxxx 17:YY/MM/DD xxxxxxxx-xxxx 18:YY/MM/DD xxxxxxxx-xxxx

19:YY/MM/DD xxxxxxxx-xxxx 20:YY/MM/DD xxxxxxxx-xxxx

15:A:x B:x C:x D:x E:x F:x

16:XX.XX YY/MM/DD XX.XX YY/MM/DD XX.XX YY/MM/DD

17:A:xxx B:xxx C:xxx D:xxx E:xxx F:xxx

18:AA:xxx AB:xxx BA:xxx BB:xxx CA:xxx CB:xxx DA:xxx DB:xxx EA:xxx EB:xxx FA:xxx FB:xxx

5/5

Canon imagePROGRAF iPFxxx PRINT INF

Firm:xx.xx Boot:xx.xx MIT(DBF):x.xx MIT(DB):x.xx

S/N:xxxxxxx Date:yyyy/mm/dd

PARTS CNT.

PARTS CR1 : OK	0	0.0	0.0	0%	0.0
PARTS CR2 : OK	0	0.0	0.0	0%	0.0
PARTS CR3 : OK	0	0.0	0.0	0%	0.0
PARTS CR4 : OK	0	0.0	0.0	0%	0.0
PARTS CR5 : OK	0	0.0	0.0	0%	0.0
PARTS SP1 : OK	0	0	0	0%	0
PARTS PG1 : OK	0	0	0	0%	0
PARTS HMa1 : OK	0	0	0	0%	0
PARTS MT1 : OK	0	0	0	0%	0
PARTS PL1 : OK	0	0	0	0%	0
PARTS Mi1 : OK	0	0	0	0%	0
PARTS CT1 : OK	0	0	0	0%	0
PARTS WF1 : OK	0	0	0	0%	0
PARTS WF2 : OK	0	0	0	0%	0

COGFF

CONDITION : 0

PARAM0-F : REF: xxxxxx xxxxxx xxxxxx xxxxxx PHASE: xxx xxx xxx xxx

AMP: xxx xxx xxx xxx RATE: xxx xxx xxx xxx

PARAM0-B : REF: xxxxxx xxxxxx xxxxxx xxxxxx PHASE: xxx xxx xxx xxx

AMP: xxx xxx xxx xxx RATE: xxx xxx xxx xxx

LF-A

ROLL LARGE : XXX.XXXX MIDDLE : XXX.XXXX SMALL : XXX.XXXX SMALLER : XXX.XXXX

CUT LARGE : XXX.XXXX MIDDLE : XXX.XXXX SMALL : XXX.XXXX SMALLER : XXX.XXXX

LF-B

ROLL LARGE : XXX.XXXX MIDDLE : XXX.XXXX SMALL : XXX.XXXX SMALLER : XXX.XXXX

CUT LARGE : XXX.XXXX MIDDLE : XXX.XXXX SMALL : XXX.XXXX SMALLER : XXX.XXXX

SCALE-A

ROLL LARGE : XXX MIDDLE : XXX SMALL : XXX SMALLER : XXX

CUT LARGE : XXX MIDDLE : XXX SMALL : XXX SMALLER : XXX

SCALE-B

ROLL LARGE : XXX MIDDLE : XXX SMALL : XXX SMALLER : XXX

CUT LARGE : XXX MIDDLE : XXX SMALL : XXX SMALLER : XXX

PV AUTO JUDGE : ON(NORMAL) , 0

7.1.16 Viewing PRINT INF

iPF6300S

a) PRINT INF item detail

The details of each PRINT INF item displayed when performing [SERVICE MODE] > [DISPLAY] > [PRINTINF] are as follows:

T-7-192

Print item		Print content	Printed value
SYSTEM	S/N	Serial number of printer	characters/numerals of 8-byte
	TYPE	Type setting on main controller PCB	24
	LF TYPE	Feed roller type	0: old type roller 1: new type roller
	TMP	Ambient temperature	Unit: Centigrade degree
	RH	Ambient humidity	Unit: %
	SIZE LF	Detected size of loaded media (feed direction)	mm (0 is always detected for the roll media.)
	SIZE CR	Detected size of loaded media (carriage scan direction)	mm
	AFTER INST.	Number of days since initial installation	Unit: Day(s)
HEAD	S/N L	Serial number of printhead L	characters/numerals (8 digits)
	S/N R	Serial number of printhead R	characters/numerals (8 digits)
	LOT L	Lot number of printhead L	characters/numerals (8 digits)
	LOT R	Lot number of printhead R	characters/numerals (8 digits)
INK	BK, MBK, C, M, Y, PC, PM, GY	Number of days passed since the ink tank was installed	Unit: Days
WARNING	01-20	Warning history (up to 20 events)	Number: Lowest is the most recent Date: mm/dd Time: mm/ss Error code: Last 4 digits Cumulative number of printed media (equivalent of A4)
ERROR	01-20	Error history (up to 20 events)	Number: Lowest is the most recent Date: mm/dd Time: mm/ss Error code: Last 4 digits Cumulative number of printed media (equivalent of A4)

Print item		Print content	Printed value
JAM	01-05	JAM log (5 records)	Number: Lowest is the most recent Date: mm/dd Time: mm/ss Error code: Last 4 digits
	01	Jam type	1: CR error 2: Jam 3: Feed failure (delay) 4: Cut failure *: Unknown
	02	Media format	1: Roll media 2: Cut sheet (manual feed from top) 3: Cut sheet (manual feed from front) 4: Cassette *: Unknown
	03	Jam timing	1: Feed 2: Print 3: Eject *: Unknown
	04	Width detection OFF mode	1: ON 2: OFF *: Unknown
	05	Head height	0: SL (1.0mm) 1: L (1.4mm) 2: M1 (1.8mm) 3: M2 (2.0mm) 4: M3 (2.2mm) 5: H (3.2mm) *: Unknown
	06	(Not Used)	
	07	(Not Used)	
	08	Media passing environment	#####
	09	Borderless/Bordered	1: Bordered printing 2: Borderless printing *: Unknown
	10	Spur position	1: Top 2: Down *: Unknown
	11	Print mode label No.	Display print mode *: Unknown
	12	Media width	Display media width (Unit: mm) *: Unknown
13	Media type	Display media name *: Unknown	
INK CHK	BK, MBK, C, M, Y, PC, PM, GY	Refill log Print whether disable remaining ink detection was previously set	0: Disable remaining ink detection was never set 1: Disable remaining ink detection was set at least once

T-7-194

Print item		Print content	Printed value
COUNTER	PRINTER	POWER ON	Cumulative power-on time Unit: hours
		SLEEP ON	Cumulative sleep-on time Unit: hours
		CUTTER	Number of cutting operations Unit: times
		WIPE	Number of wiping operations Unit: times
		W-INK	Remaining capacity of the maintenance cartridge Unit: %
		PDL	Cumulative number of printed media according to PDL GARO: xx sheets HP-GL/2: xx sheets
	CARRIAGE	PRINT	Cumulative printing time Unit: hours
		DRIVE	Cumulative carriage moving time Unit: hours
		CR-COUNT	Cumulative carriage scan count (count as 1 by moving back and forth) Unit: times
		CR-DIST.	Cumulative carriage scan distance (count as 1 by moving 210mm) Unit: times
		PRINT-COUNT	Cumulative print end count (count as 1 by capping) Unit: times
	PURGE	CLN-A	Cumulative number of automatic cleaning operations
		1	Cumulative number of automatic cleaning 1 (normal suction) operations Unit: times
		2	Cumulative number of automatic cleaning 2 (ink level adjusting) operations
		3	Cumulative number of automatic cleaning 3 (initial filling) operations
		6	Cumulative number of automatic cleaning 6 (strong normal suction) operations
		7	Cumulative number of automatic cleaning 7 (aging) operations
		8	Cumulative number of automatic cleaning 8 (flashing) operations
		10	Cumulative number of automatic cleaning 10 (ink filling after secondary transportation) operations
		11	Cumulative number of automatic cleaning 11 (ink filling after head replacement) operations
		15	Cumulative number of automatic cleaning 15 (dot count small suction) operations
		16	Cumulative number of automatic cleaning 16 (sedimented ink agitation) operations
		17	Cumulative number of automatic cleaning 17 (small suction) operations
		TTL	Total number of automatic cleaning operations
		CLN-M	Cumulative number of manual cleaning 1 operations
		1	Cumulative number of manual cleaning 1 (normal suction) operations Unit: times
		4	Cumulative number of manual cleaning 4 (ink draining from head after head replacement) operations
		5	Cumulative number of manual cleaning 5 (ink draining from head and tube before transportation) operations
		6	Cumulative number of manual cleaning 6 (normal strong suction) operations
		TTL	Total number of manual cleaning operations

Print item		Print content	Printed value
COUNTER	CLEAR	INK CONSUME	Cumulative count of ink section consumption amount clearing
		MTC EXC.	Cumulative count of maintenance cartridge replacement count clearing
		HEAD L EXC.	Cumulative count of printhead L replacement count clearing
		HEAD R EXC.	Cumulative count of printhead R replacement count clearing
		PARTS Wia1 EXC.	Cumulative count of unit Wia-1(suction fan) replacement count clearing
		PARTS Wib1 EXC.	Cumulative count of unit Wib-1(platen duct) replacement count clearing
		PARTS CR1 EXC.	Cumulative count of unit CR-1(carriage unit bushing) replacement count clearing
		PARTS CR2 EXC.	Cumulative count of unit CR-2(flexible cable unit) replacement count clearing
		PARTS CR3 EXC.	Cumulative count of unit CR-3(linear encoder sensor/linear scale/shaft cleaner) replacement count clearing
		PARTS CR4 EXC.	Cumulative count of unit CR-4(carriage height changing cam) replacement count clearing
		PARTS CR5 EXC.	Cumulative count of unit CR-5(multi sensor) replacement count clearing
		PARTS SP1 EXC.	Cumulative count of unit SP-1(ink tube unit) replacement count clearing
		PARTS PG1 EXC.	Cumulative count of unit PG-1(purge unit) replacement count clearing
		PARTS HMa1 EXC.	Cumulative count of unit HMa-1(head management sensor) replacement count clearing
		PARTS PL1 EXC.	Cumulative count of unit PL-1(feed motor) replacement count clearing
		PARTS PS1 EXC.	Cumulative count of unit PS-1(spur) replacement count clearing
		PARTS Mi1 EXC.	Cumulative count of unit Mi-1(mist fan/mist filter) replacement count clearing
		PARTS MS1 EXC.	Cumulative count of unit MS-1(multi sensor) replacement count clearing
		PARTS CT1 EXC.	Cumulative count of unit CT-1(cutter) replacement count clearing
			FACTORY CNT.

Unit: times

T-7-196

Print item		Print content	Printed value
COUNTER	EXCHANGE	MTC EXC.	Maintenance cartridge replacement count
		HEAD L EXC.	Printhead L replacement count
		HEAD R EXC.	Printhead R replacement count
		BOARD EXC.(M/B)	Main controller PCB replacement count
		PARTS Wia1 EXC.	Wia-1(suction fan) replacement count
		PARTS Wib1 EXC.	Wib-1(platen duct) replacement count
		PARTS CR1 EXC.	CR-1(carriage unit bushing) replacement count
		PARTS CR2 EXC.	CR-2(flexible cable unit) replacement count
		PARTS CR3 EXC.	CR-3(linear encoder sensor/linear scale/shaft cleaner) replacement count
		PARTS CR4 EXC.	CR-4(carriage height changing cam) replacement count
		PARTS CR5 EXC.	CR-5(multi sensor) replacement count
		PARTS SP1 EXC.	SP-1(ink tube unit) replacement count
		PARTS PG1 EXC.	PG-1(purge unit) replacement count
		PARTS HMa1 EXC.	HMa-1(head management sensor) replacement count
		PARTS PL1 EXC.	PL-1(feed motor) replacement count
		PARTS PS1 EXC.	PS-1(spur) replacement count
		PARTS Mi1 EXC.	Mi-1(mist fan/mist filter) replacement count
		PARTS MS1 EXC.	MS-1(multi sensor) replacement count
PARTS CT1 EXC.	CT-1(cutter) replacement count		

Print item		Print content	Printed value	
COUNTER	DETAIL-CNT	MOVE PRINTER	Count of secondary transportation	Unit: times
		MEDIACONFIG-CNT	Count of media registered by media editor	
		N-INKCHK BK, MBK, C, M, Y, PC, PM, GY	Count of turning off the ink remaining level detection for each color	
	INK-USE1	INK BK, MBK, C, M, Y, PC, PM, GY	Cumulative consumption amount of generic ink	Unit: ml
		TTL	Total amount of the cumulative consumption of generic ink	
		NINK BK, MBK, C, M, Y, PC, PM, GY	Cumulative consumption amount of refilled ink	
		TTL	Total amount of the cumulative consumption of refilled ink	
	INK-USE2	INK BK, MBK, C, M, Y, PC, PM, GY	Consumption amount of generic ink of the currently installed ink tank.	Unit: ml
		TTL	Total consumption amount of generic ink of the currently installed ink tanks	
		NINK BK, MBK, C, M, Y, PC, PM, GY	Consumption amount of refilled ink of the currently installed ink tank	
		TTL	Total consumption amount of refilled ink of the currently installed ink tanks	
	INK-EXC	INK BK, MBK, C, M, Y, PC, PM, GY	Cumulative count of generic ink tank replacement	Unit: times
		TTL	Total amount of the cumulative count of generic ink tank replacement	
		NINK BK, MBK, C, M, Y, PC, PM, GY	Cumulative count of refilled ink tank replacement	
		TTL	Total amount of the cumulative count of refilled ink tank replacement	

T-7-198

Print item		Print content		Printed value
COUNTER	MEDIA 1-7	NAME	Media type	
		TTL	Total amount of cumulative print area of roll media and cut sheet	Unit: square/meter, square/feet
		ROLL	Cumulative print area of roll media	
		CUTSHEET	Cumulative print area of cut sheet	
	MEDIA OTHER	NAME	OTHER	OTHER
		TTL	Total amount of cumulative print area of roll media and cut sheet	Unit: square/meter, square/feet
		ROLL	Cumulative print area of roll media	
		CUTSHEET	Cumulative print area of cut sheet	
	MEDIA SIZE1 ROLL P-SQ/P-CNT	24-36	Cumulative print area of roll media equal to or larger than 24 inches but less than 36 inches (physical size)	
		17-24	Cumulative print area of roll media equal to or larger than 17 inches but less than 24 inches (physical size)	
		0-17	Cumulative print area of roll media less than 17 inches (physical size)	
	MEDIA SIZE2 ROLL D-SQ/D-CNT	24-36	Cumulative print area of roll media equal to or larger than 24 inches but less than 36 inches (data size)	
		17-24	Cumulative print area of roll media equal to or larger than 17 inches but less than 24 inches (data size)	
		0-17	Cumulative print area of roll media less than 17 inches (data size)	
	MEDIA SIZE1 CUT P-SQ/P-CNT	24-36	Cumulative print area of cut sheet equal to or larger than 24 inches but less than 36 inches (physical size)	
		17-24	Cumulative print area of cut sheet equal to or larger than 17 inches but less than 24 inches (physical size)	
		0-17	Cumulative print area of cut sheet less than 17 inches (physical size)	
	MEDIA SIZE2 CUT D-SQ/D-CNT	24-36	Cumulative print area of cut sheet equal to or larger than 24 inches but less than 36 inches (data size)	
		17-24	Cumulative print area of cut sheet equal to or larger than 17 inches but less than 24 inches (data size)	
		0-17	Cumulative print area of cut sheet less than 17 inches (data size)	
	HEAD DOT CNT.1	BK, MBK, C, M, Y, PC, PM, GY	Dot counts of each colors of the currently installed printhead	Unit: (x 1,000,000) dots
TTL		Total dot counts of each colors of the currently installed printhead		
HEAD DOT CNT.2	BK, MBK, C, M, Y, PC, PM, GY	Cumulative dot counts of each colors	Unit: (x 1,000,000) dots	
	TTL	Total cumulative dot counts of each colors		

Print item	Print content	Printed value
HEAD INF.1 [Installed head]	01	Date & time installed (last 4 times)
		YY/MM/DD Display order: Installed date (last) -> Installed date (2nd to last) -> Installed date (3rd to last) -> Installed date (initial)
	02	Removal date & time (last 3 times)
		YY/MM/DD Display order: Last -> 2nd to last -> 3rd to last
	03	Main unit serial No. (last 3 times)
		Display order: Last -> 2nd to last -> 3rd to last
	04	CLN_A (auto) count
	05	CLN_A (manual) count
	06	Cleaning B (auto/left cap) count
	07	Cleaning B (auto/right cap) count
	08	CLN_B (manual) count
	09	Head replacement ink drain count
	10	Secondary transport ink drain count
	11	Secondary transport ink fill count
	12	Ink filling after head replacement count
	13	Recovery suction
	14	Number of sheets printed
		Unit: Sheets (A4 equivalent sheets)
	15	Error log
		YY/MM/DD xxxx (last 4 digits) 01: Last, 02: 2nd to last, 03: 3rd to last, ..., 20: 20th to last
16	Refill tank usage log (per chip)	
	A: x, B: x, C: x, D: x, E: x, F: x	
17	Firmware version (last 3)	
	XX.XX YY/MM/DD Display order: Last -> 2nd to last -> 3rd to last	
18	Head highest temperature (per chip)	
	A: xxx, B: xxx, C: xxx, D: xxx, E: xxx, F: xxx	
19	Number of non-discharging nozzles (per nozzle row) chip A row A, chip A row B to chip F row A, chip F row B	
	AA: xxx, AB: xxx, BA: xxx, BB: xxx, CA: xxx, CB: xxx, DA: xxx, DB: xxx, EA: xxx, EB: xxx, FA: xxx, FB: xxx	
20	EEPROM format Ver	
HEAD INF.2 [Head installed 2nd to last]	01	Date & time installed (last 4 times)
		YY/MM/DD Display order: Installed date (last) -> Installed date (2nd to last) -> Installed date (3rd to last) -> Installed date (initial)
	02	Removal date & time (last 3 times)
		YY/MM/DD Display order: Last -> 2nd to last -> 3rd to last
	03	Main unit serial No. (last 3 times)
		Display order: Last -> 2nd to last -> 3rd to last
	04	CLN_A (auto) count
	05	CLN_A (manual) count
	06	Cleaning B (auto/left cap) count
	07	Cleaning B (auto/right cap) count
	08	CLN_B (manual) count
	09	Head replacement ink drain count
	10	Secondary transport ink drain count
	11	Secondary transport ink fill count
	12	Ink filling after head replacement count
	13	Recovery suction
	14	Number of sheets printed
		Unit: Sheets (A4 equivalent sheets)
	15	Error log
		YY/MM/DD xxxx (last 4 digits) 01: Last, 02: 2nd to last, 03: 3rd to last, ..., 20: 20th to last
16	Refill tank usage log (per chip)	
	A: x, B: x, C: x, D: x, E: x, F: x	
17	Firmware version (last 3)	
	XX.XX YY/MM/DD Display order: Last -> 2nd to last -> 3rd to last	
18	Head highest temperature (per chip)	
	A: xxx, B: xxx, C: xxx, D: xxx, E: xxx, F: xxx	
19	Number of non-discharging nozzles (per nozzle row) chip A row A, chip A row B to chip F row A, chip F row B	
	AA: xxx, AB: xxx, BA: xxx, BB: xxx, CA: xxx, CB: xxx, DA: xxx, DB: xxx, EA: xxx, EB: xxx, FA: xxx, FB: xxx	
20	EEPROM format Ver	

T-7-200

Print item		Print content	Printed value
PARTS CNT.	[Value of each parts counter]	Status	OK/W1/W2/E
		Number of days after set	Unit: Days
		Count	
		Life threshold	
		Usage	Unit: %
		Cumulative count	
COGFF	CONDITION	Cogging FF result	0: Disabled 1: Enabled 2: Check required 3: Adjust required
	PARAM0-F	Parameters 1	REF: Motor error (6 digits) PHASE: Phase (3 digits) AMP: Amplitude (3 digits) RATE: Decay rate (3 digits)
	PARAM0-B	Parameters 2	REF: Motor error (6 digits) PHASE: Phase (3 digits) AMP: Amplitude (3 digits) RATE: Decay rate (3 digits)
LF SCALE adjustment value (user value)	LF-A	LF8 pass	
	LF-B	LF1 pass	
	SCALE-A	Scale clean	
	SCALE-B	Scale fast	
PV AUTO JUDGE		Ink reduction mode	ON (NORMAL/LOW only when ON)/Number of times OFF is entered

b) Sample Layout

PRINT INF layout is shown below.

1/5

Canon imagePROGRAF iPFxxx PRINT INF

Firm:xx.xx Boot:xx.xx MIT(DBF):x.xx MIT(DB):x.xx

S/N:xxxxxxxx Date:yyyy/mm/dd

SYSTEM

S/N:xxxxxxxx TYPE:12 -LF:1 TMP:xx RH:xx SIZE-LF:xxxxx.x -CR:xxxxx.x AFTER INST:xxxx x

HEAD

IN

K

S/N:xxxxxxxx LOT:xxxxxxxx C:xxxxxx M:xxxxxx Y:xxxxxx MBK:xxxxxx MBK2:xxxxxx BK:xxxxxx

WARNING

01:MM/DD HH:MM xxxxxxxx-xxxx xxxxxxxx 02:MM/DD HH:MM xxxxxxxx-xxxx xxxxxxxx x

03:MM/DD HH:MM xxxxxxxx-xxxx xxxxxxxx 04:MM/DD HH:MM xxxxxxxx-xxxx xxxxxxxx

05:MM/DD HH:MM xxxxxxxx-xxxx xxxxxxxx 06:MM/DD HH:MM xxxxxxxx-xxxx xxxxxxxx

07:MM/DD HH:MM xxxxxxxx-xxxx xxxxxxxx 08:MM/DD HH:MM xxxxxxxx-xxxx xxxxxxxx

09:MM/DD HH:MM xxxxxxxx-xxxx xxxxxxxx 10:MM/DD HH:MM xxxxxxxx-xxxx xxxxxxxx

11:MM/DD HH:MM xxxxxxxx-xxxx xxxxxxxx 12:MM/DD HH:MM xxxxxxxx-xxxx xxxxxxxx

13:MM/DD HH:MM xxxxxxxx-xxxx xxxxxxxx 14:MM/DD HH:MM xxxxxxxx-xxxx xxxxxxxx

15:MM/DD HH:MM xxxxxxxx-xxxx xxxxxxxx 16:MM/DD HH:MM xxxxxxxx-xxxx xxxxxxxx

17:MM/DD HH:MM xxxxxxxx-xxxx xxxxxxxx 18:MM/DD HH:MM xxxxxxxx-xxxx xxxxxxxx

19:MM/DD HH:MM xxxxxxxx-xxxx xxxxxxxx 20:MM/DD HH:MM xxxxxxxx-xxxx xxxxxxxx

ERROR

01:MM/DD HH:MM xxxxxxxx-xxxx xxxxxxxx 02:MM/DD HH:MM xxxxxxxx-xxxx xxxxxxxx x

03:MM/DD HH:MM xxxxxxxx-xxxx xxxxxxxx 04:MM/DD HH:MM xxxxxxxx-xxxx xxxxxxxx

05:MM/DD HH:MM xxxxxxxx-xxxx xxxxxxxx 06:MM/DD HH:MM xxxxxxxx-xxxx xxxxxxxx

07:MM/DD HH:MM xxxxxxxx-xxxx xxxxxxxx 08:MM/DD HH:MM xxxxxxxx-xxxx xxxxxxxx

09:MM/DD HH:MM xxxxxxxx-xxxx xxxxxxxx 10:MM/DD HH:MM xxxxxxxx-xxxx xxxxxxxx

11:MM/DD HH:MM xxxxxxxx-xxxx xxxxxxxx 12:MM/DD HH:MM xxxxxxxx-xxxx xxxxxxxx

13:MM/DD HH:MM xxxxxxxx-xxxx xxxxxxxx 14:MM/DD HH:MM xxxxxxxx-xxxx xxxxxxxx x

15:MM/DD HH:MM xxxxxxxx-xxxx xxxxxxxx 16:MM/DD HH:MM xxxxxxxx-xxxx xxxxxxxx x

17:MM/DD HH:MM xxxxxxxx-xxxx xxxxxxxx 18:MM/DD HH:MM xxxxxxxx-xxxx xxxxxxxx

19:MM/DD HH:MM xxxxxxxx-xxxx xxxxxxxx 20:MM/DD HH:MM xxxxxxxx-xxxx xxxxxxxx x

JAM

01:MM/DD HH:MM xxxx xxxxxxxx

01:x 02:x 03:x 04:x 05:xx 06:x 07:x 08:x

09:x 10:xxx 11:media_sizexxxxxx 12:media_namexxxxxx

02:MM/DD HH:MM xxxx xxxxxxxx

01:x 02:x 03:x 04:x 05:xx 06:x 07:x 08:x

09:x 10:xxx 11:media_sizexxxxxx 12:media_namexxxxxx

03:MM/DD HH:MM xxxx xxxxxxxx

01:x 02:x 03:x 04:x 05:xx 06:x 07:x 08:x

09:x 10:xxx 11:media_sizexxxxxx 12:media_namexxxxxx

04:MM/DD HH:MM xxxx xxxxxxxx x

01:x 02:x 03:x 04:x 05:xx 06:x 07:x 08:x

09:x 10:xxx 11:media_sizexxxxxx 12:media_namexxxxxx

05:MM/DD HH:MM xxxx xxxxxxxx x

01:x 02:x 03:x 04:x 05:xx 06:x 07:x 08:x

09:x 10:xxx 11:media_sizexxxxxx 12:media_namexxxxxx

```

2/5
Canon imagePROGRAF iPFxxx PRINT INF
Firm:xx.xx Boot:xx.xx MIT(DBF):x.xx MIT(DB):x.xx
S/N:xxxxxxx Date:yyyy/mm/dd
INK CHECK
C:x M:x Y:x MBK:x MBK2:x BK:x
COUNTER
PRINTER
LIFE-TTL:xxxxxx LIFE-ROLL:xxxxxx LIFE-CUTSHEET:xxxxxx
LIFE A:xxxxxx B:xxxxxx C:xxxxxx D:xxxxxx E:xxxxxx F:xxxxxx
POWER-ON:xxxxxx SLEEP-ON:xxxxxx CUTTER:xxxxxx WIPE:xxxxxx W-INK:xxxxxx
PDL: GARO:xxxxxx HP-GL/2:xxxxxx
CARRIAGE
PRINT:xxxxxx DRIVE:xxxxxx CR-COUNT:xxxxxx CR-DIST.:xxxxxx PRINT-COUNT:xxxxxx
PURGE
CLN-A : 1:xxxxx 2:xxxxx 3:xx 6:xxxx 7:xxx 10:xxx 11:xxx 15:xxx 16:xxxxx 17:xxxxx TTL:xxxxxx
CLN-M : 1:xxxxx 4:xxx 5:xx 6:xxxxx TTL:xxxxx
CLEAR
INK CONSUME:xxx MTC EXC.:xxx HEAD EXC.:xxx
PARTS CR1 EXC.:xx PARTS CR2 EXC.:xx PARTS CR3 EXC.:xx PARTS CR4 EXC.:xx PARTS CR5 EXC.:xx
PARTS SP1 EXC.:xx PARTS PG1 EXC.:xx PARTS HMa1 EXC.:xx PARTS MT1 EXC.:xx PARTS PL1 EXC.:xx
PARTS Mi1 EXC.:xx PARTS CT1 EXC.:xx PARTS WF1 EXC.:xx PARTS WF2 EXC.:xx
FACTORY CNT.:xx
EXCHANGE
MTC EXC.:xxx HEAD EXC.:xxx BOARD EXC.(M/B):xx
PARTS CR1 EXC.:xx PARTS CR2 EXC.:xx PARTS CR3 EXC.:xx PARTS CR4 EXC.:xx PARTS CR5 EXC.:xx
PARTS SP1 EXC.:xx PARTS PG1 EXC.:xx PARTS HMa1 EXC.:xx PARTS MT1 EXC.:xx PARTS PL1 EXC.:xx
PARTS Mi1 EXC.:xx PARTS CT1 EXC.:xx PARTS WF1 EXC.:xx PARTS WF2 EXC.:xx
DETAIL-CNT
MOVE PRINTER:xxx MEDIACONFIG-CNT:xxx
N-INKCHK: C:xxxx M:xxxx Y:xxxx MBK:xxxx MBK2:xxxx BK:xxxx
INK-USE1
INK C:xxxx.xml M:xxxx.xml Y:xxxx.xml MBK:xxxx.xml MBK2:xxxx.xml BK:xxxx.xml
TTL:xxxxxx.xml
NINK C:xxxx.xml M:xxxx.xml Y:xxxx.xml MBK:xxxx.xml MBK2:xxxx.xml BK:xxxx.xml
TTL:xxxxxx.xml
INK-USE2
INK C:xxxx.xml M:xxxx.xml Y:xxxx.xml MBK:xxxx.xml MBK2:xxxx.xml BK:xxxx.xml
TTL:xxxxxx.xml
NINK C:xxxx.xml M:xxxx.xml Y:xxxx.xml MBK:xxxx.xml MBK2:xxxx.xml BK:xxxx.xml
TTL:xxxxxx.xml
INK-EXC
INK C:xxxx M:xxxx Y:xxxx MBK:xxxx MBK2:xxxx BK:xxxx
TTL:xxxxx
NINK C:xxxx M:xxxx Y:xxxx MBK:xxxx MBK2:xxxx BK:xxxx
TTL:xxxxx

```

3/5

Canon imagePROGRAF iPFxxx PRINT INF

Firm:xx.xx Boot:xx.xx MIT(DBF):x.xx MIT(DB):x.xx

S/N:xxxxxxx Date:yyyy/mm/dd

NAME : xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	NAME : xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
TTL : xxxxxx.x m2 xxxxxx.x sq.f	TTL : xxxxxx.x m2 xxxxxx.x sq.f
ROLL : xxxxxx.x m2 xxxxxx.x sq.f	ROLL : xxxxxx.x m2 xxxxxx.x sq.f
CUTSHEET : xxxxxx.x m2 xxxxxx.x sq.f	CUTSHEET : xxxxxx.x m2 xxxxxx.x sq.f
MEDIA 3	MEDIA 4
NAME : xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	NAME : xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
TTL : xxxxxx.x m2 xxxxxx.x sq.f	TTL : xxxxxx.x m2 xxxxxx.x sq.f
ROLL : xxxxxx.x m2 xxxxxx.x sq.f	ROLL : xxxxxx.x m2 xxxxxx.x sq.f
CUTSHEET : xxxxxx.x m2 xxxxxx.x sq.f	CUTSHEET : xxxxxx.x m2 xxxxxx.x sq.f
MEDIA 5	MEDIA 6
NAME : xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	NAME : xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
TTL : xxxxxx.x m2 xxxxxx.x sq.f	TTL : xxxxxx.x m2 xxxxxx.x sq.f
ROLL : xxxxxx.x m2 xxxxxx.x sq.f	ROLL : xxxxxx.x m2 xxxxxx.x sq.f
CUTSHEET : xxxxxx.x m2 xxxxxx.x sq.f	CUTSHEET : xxxxxx.x m2 xxxxxx.x sq.f
MEDIA 7	MEDIA OTHER
NAME : xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	NAME : xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
TTL : xxxxxx.x m2 xxxxxx.x sq.f	TTL : xxxxxx.x m2 xxxxxx.x sq.f
ROLL : xxxxxx.x m2 xxxxxx.x sq.f	ROLL : xxxxxx.x m2 xxxxxx.x sq.f
CUTSHEET : xxxxxx.x m2 xxxxxx.x sq.f	CUTSHEET : xxxxxx.x m2 xxxxxx.x sq.f

MEDIA SIZE1 ROLL P-SQ/P-CNT

36-44: xxxxxx.x m2 xxxxxx.x sq.f	0
24-36: xxxxxx.x m2 xxxxxx.x sq.f	0
17-24: xxxxxx.x m2 xxxxxx.x sq.f	0
0-17: xxxxxx.x m2 xxxxxx.x sq.f	0

MEDIA SIZE2 ROLL D-SQ/D-CNT

36-44: xxxxxx.x m2 xxxxxx.x sq.f	0
24-36: xxxxxx.x m2 xxxxxx.x sq.f	0
17-24: xxxxxx.x m2 xxxxxx.x sq.f	0
0-17: xxxxxx.x m2 xxxxxx.x sq.f	0

MEDIA SIZE1 CUT P-SQ/P-CNT

36-44: xxxxxx.x m2 xxxxxx.x sq.f	0
24-36: xxxxxx.x m2 xxxxxx.x sq.f	0
17-24: xxxxxx.x m2 xxxxxx.x sq.f	0
0-17: xxxxxx.x m2 xxxxxx.x sq.f	0

MEDIA SIZE2 CUT D-SQ/D-CNT

36-44: xxxxxx.x m2 xxxxxx.x sq.f	0
24-36: xxxxxx.x m2 xxxxxx.x sq.f	0
17-24: xxxxxx.x m2 xxxxxx.x sq.f	0
0-17: xxxxxx.x m2 xxxxxx.x sq.f	0

4/5

Canon imagePROGRAF iPFxxx PRINT INF

Firm:xx.xx Boot:xx.xx MIT(DBF):x.xx MIT(DB):x.xx

S/N:xxxxxxx Date:yyyy/mm/dd

HEAD DOT CNT.1

C:xxxxxxxx M:xxxxxxxx Y:xxxxxxxx MBK:xxxxxxxx MBK2:xxxxxxxx BK:xxxxxxxx

TTL:xxxxxxxxxxxxxxxx

HEAD DOT CNT.2

C:xxxxxxxx M:xxxxxxxx Y:xxxxxxxx MBK:xxxxxxxx MBK2:xxxxxxxx BK:xxxxxxxx

TTL:xxxxxxxxxxxxxxxx

HEAD INF.1

1:YY/MM/DD YY/MM/DD YY/MM/DD YY/MM/DD 2:YY/MM/DD YY/MM/DD YY/MM/DD

3:xxxxxxxx xxxxxxxx xxxxxxxx

4:xxxxx 5:xxxxx 6:xxxxx 7:xxxxx 8:xxx 9:xxx 10:xxx 11:xxx 12:xxx

13:xxxxxxxx 19:1

14: 1:YY/MM/DD xxxxxxxx-xxxx 2:YY/MM/DD xxxxxxxx-xxxx 3:YY/MM/DD xxxxxxxx-xxxx

4:YY/MM/DD xxxxxxxx-xxxx 5:YY/MM/DD xxxxxxxx-xxxx 6:YY/MM/DD xxxxxxxx-xxxx

7:YY/MM/DD xxxxxxxx-xxxx 8:YY/MM/DD xxxxxxxx-xxxx 9:YY/MM/DD xxxxxxxx-xxxx

10:YY/MM/DD xxxxxxxx-xxxx 11:YY/MM/DD xxxxxxxx-xxxx 12:YY/MM/DD xxxxxxxx-xxxx

13:YY/MM/DD xxxxxxxx-xxxx 14:YY/MM/DD xxxxxxxx-xxxx 15:YY/MM/DD xxxxxxxx-xxxx

16:YY/MM/DD xxxxxxxx-xxxx 17:YY/MM/DD xxxxxxxx-xxxx 18:YY/MM/DD xxxxxxxx-xxxx

19:YY/MM/DD xxxxxxxx-xxxx 20:YY/MM/DD xxxxxxxx-xxxx

15:A:x B:x C:x D:x E:x F:x

16:XX.XX YY/MM/DD XX.XX YY/MM/DD XX.XX YY/MM/DD

17:A:xxx B:xxx C:xxx D:xxx E:xxx F:xxx

18:AA:xxx AB:xxx BA:xxx BB:xxx CA:xxx CB:xxx DA:xxx DB:xxx EA:xxx EB:xxx FA:xxx FB:xxx

HEAD INF.2

1:YY/MM/DD YY/MM/DD YY/MM/DD YY/MM/DD 2:YY/MM/DD YY/MM/DD YY/MM/DD

3:xxxxxxxx xxxxxxxx xxxxxxxx

4:xxxxx 5:xxxxx 6:xxxxx 7:xxxxx 8:xxx 9:xxx 10:xxx 11:xxx 12:xxx

13:xxxxxxxx 19:1

14: 1:YY/MM/DD xxxxxxxx-xxxx 2:YY/MM/DD xxxxxxxx-xxxx 3:YY/MM/DD xxxxxxxx-xxxx

4:YY/MM/DD xxxxxxxx-xxxx 5:YY/MM/DD xxxxxxxx-xxxx 6:YY/MM/DD xxxxxxxx-xxxx

7:YY/MM/DD xxxxxxxx-xxxx 8:YY/MM/DD xxxxxxxx-xxxx 9:YY/MM/DD xxxxxxxx-xxxx

10:YY/MM/DD xxxxxxxx-xxxx 11:YY/MM/DD xxxxxxxx-xxxx 12:YY/MM/DD xxxxxxxx-xxxx

13:YY/MM/DD xxxxxxxx-xxxx 14:YY/MM/DD xxxxxxxx-xxxx 15:YY/MM/DD xxxxxxxx-xxxx

16:YY/MM/DD xxxxxxxx-xxxx 17:YY/MM/DD xxxxxxxx-xxxx 18:YY/MM/DD xxxxxxxx-xxxx

19:YY/MM/DD xxxxxxxx-xxxx 20:YY/MM/DD xxxxxxxx-xxxx

15:A:x B:x C:x D:x E:x F:x

16:XX.XX YY/MM/DD XX.XX YY/MM/DD XX.XX YY/MM/DD

17:A:xxx B:xxx C:xxx D:xxx E:xxx F:xxx

18:AA:xxx AB:xxx BA:xxx BB:xxx CA:xxx CB:xxx DA:xxx DB:xxx EA:xxx EB:xxx FA:xxx FB:xxx

5/5

Canon imagePROGRAF iPFxxx PRINT INF

Firm:xx.xx Boot:xx.xx MIT(DBF):x.xx MIT(DB):x.xx

S/N:xxxxxxxx Date:yyyy/mm/dd

PARTS CNT.

PARTS CR1 : OK	0	0.0	0.0	0%	0.0
PARTS CR2 : OK	0	0.0	0.0	0%	0.0
PARTS CR3 : OK	0	0.0	0.0	0%	0.0
PARTS CR4 : OK	0	0.0	0.0	0%	0.0
PARTS CR5 : OK	0	0.0	0.0	0%	0.0
PARTS SP1 : OK	0	0	0	0%	0
PARTS PG1 : OK	0	0	0	0%	0
PARTS HMa1 : OK	0	0	0	0%	0
PARTS MT1 : OK	0	0	0	0%	0
PARTS PL1 : OK	0	0	0	0%	0
PARTS Mi1 : OK	0	0	0	0%	0
PARTS CT1 : OK	0	0	0	0%	0
PARTS WF1 : OK	0	0	0	0%	0
PARTS WF2 : OK	0	0	0	0%	0

COGFF

CONDITION : 0

PARAM0-F : REF: xxxxxx xxxxxx xxxxxx xxxxxx PHASE: xxx xxx xxx xxx

AMP: xxx xxx xxx xxx RATE: xxx xxx xxx xxx

PARAM0-B : REF: xxxxxx xxxxxx xxxxxx xxxxxx PHASE: xxx xxx xxx xxx

AMP: xxx xxx xxx xxx RATE: xxx xxx xxx xxx

LF-A

ROLL LARGE : XXX.XXXX MIDDLE : XXX.XXXX SMALL : XXX.XXXX SMALLER : XXX.XXXX

CUT LARGE : XXX.XXXX MIDDLE : XXX.XXXX SMALL : XXX.XXXX SMALLER : XXX.XXXX

LF-B

ROLL LARGE : XXX.XXXX MIDDLE : XXX.XXXX SMALL : XXX.XXXX SMALLER : XXX.XXXX

CUT LARGE : XXX.XXXX MIDDLE : XXX.XXXX SMALL : XXX.XXXX SMALLER : XXX.XXXX

SCALE-A

ROLL LARGE : XXX MIDDLE : XXX SMALL : XXX SMALLER : XXX

CUT LARGE : XXX MIDDLE : XXX SMALL : XXX SMALLER : XXX

SCALE-B

ROLL LARGE : XXX MIDDLE : XXX SMALL : XXX SMALLER : XXX

CUT LARGE : XXX MIDDLE : XXX SMALL : XXX SMALLER : XXX

PV AUTO JUDGE : ON(NORMAL) , 0

7.2 Special Mode

7.2.1 Special Modes for Servicing

iPF6100 / iPF6200 / iPF6000S

This printer supports the following special modes in addition to the service mode:

- **PCB replacement mode**
 - **Download mode**
 - **Counter display mode**

1. PCB replacement mode

This mode is used when replacing the main PCB or MC relay PCB.

By executing this mode,

- Backup data of the settings and counter values stored in the MC relay PCB are moved to the new main PCB.
- The data such as the settings and counter values are copied to the MC relay PCB.

a) Entering the PCB replacement mode

Follow the same procedure as that for entering the service mode.

(With the "Paper Source" button and "Information" button pressed down, turn on the "Power" button.)

When the printer starts up, compare the serial number memorized in the main PCB's EEPROM with that memorized in the MC relay PCB's EEPROM. If they do not match, or no serial number is memorized in either EEPROM, enter the PCB replacement mode.

While you are in the PCB replacement mode, the MESSAGE LED, roll media LED, and ONLINE LED are lit.

b) Procedure

Select "CPU BOARD" or "MC BOARD" using the [◀] and [▶] buttons, and then press the [OK] button to determine it.

- CPU BOARD

Select this after replacing the main PCB.

The data in the MC relay PCB is copied to the main PCB.

- MC BOARD

Select this before replacing the MC relay PCB.

The data in the main controller PCB is copied to the MC relay PCB.

c) Exiting the PCB replacement mode

Turning off the Power button of the printer allows you to exit the PCB replacement mode.

For details on how to replace the PCB, see Parts Replacement Procedure > Disassembly/Reassembly > Points to Note on Disassembly and Reassembly > Boards.

2. Download mode

Use this mode only when updating the firmware without performing initialization.

a) Entering the download mode

1) Turning off the Power button of the printer.

2) With the "Stop" and "Information" buttons pressed down, turn on the Power button of the printer.

* Keep pressing the above buttons until "Initializing" appears on the display.

b) Procedure

When "Download Mode/Send Firmware" is shown on the display, transfer the firmware.

When downloading of the firmware is completed, the printer is turned off automatically.

3. Counter display mode

Use this mode to view only printer counter information.

a) Invoking counter display mode

1) Press the [MENU] button to keep [Information] > [System Info] selected.

2) Press the [▲] button while holding down the [MENU] button + [OK] button to invoke counter display mode.

b) How to view counter display mode

- S/N: Unit serial number

- CNT: Number of copies printed in A4 terms (unit: copies)

7.2.2 Special Modes for Servicing

iPF6300 / iPF6350 / iPF6300S

This printer supports the following special modes in addition to the service mode:

- **PCB replacement mode**
- **Download mode**

1. PCB replacement mode

This mode is used when replacing the main PCB or MC relay PCB.

By executing this mode,

- Backup data of the settings and counter values stored in the MC relay PCB are moved to the new main PCB.
- The data such as the settings and counter values are copied to the MC relay PCB.

a) Entering the PCB replacement mode

Follow the same procedure as that for entering the service mode.

(With the [Load] key and [Navigate] key pressed down, turn on the [Power] key.)

When the printer starts up, compare the serial number memorized in the main PCB's EEPROM with that memorized in the MC relay PCB's EEPROM. If they do not match, or no serial number is memorized in either EEPROM, enter the PCB replacement mode.

b) Procedure

Select "CPU BOARD" or "MC BOARD" using the ◀ and ▶ keys, and then press the [OK] key to determine it.

- CPU BOARD

Select this after replacing the main PCB.

The data in the MC relay PCB is copied to the main PCB.

- MC BOARD

Select this before replacing the MC relay PCB.

The data in the main controller PCB is copied to the MC relay PCB.

c) Exiting the PCB replacement mode

Turning off the [Power] key of the printer allows you to exit the PCB replacement mode.

For details on how to replace the PCB, see "Disassembly/Reassembly > Points to Note on Disassembly and Reassembly > PCBs".

2. Download mode

Use this mode only when updating the firmware without performing initialization.

a) Entering the download mode

1) Turning off the [Power] key of the printer.

2) With the [Stop] and [Navigate] keys pressed down, turn on the [Power] key of the printer.

* Keep pressing the above buttons until "Initializing" appears on the display.

b) Procedure

When "Download Mode/Send Firmware" is shown on the display, transfer the firmware.

When downloading of the firmware is completed, the printer is turned off automatically.

Chapter 8 ERROR CODE

Contents

8.1 Outline.....	8-1
8.1.1 Outline.....	8-1
8.1.2 Outline.....	8-2
8.2 Warning Table.....	8-3
8.2.1 Warnings.....	8-3
8.2.2 Warnings.....	8-4
8.2.3 Warnings.....	8-5
8.3 Error Table.....	8-8
8.3.1 Error Code List.....	8-8
8.3.2 Error Code List.....	8-18
8.3.3 Errors.....	8-29
8.4 Service Call Table.....	8-40
8.4.1 Service Call Errors.....	8-40
8.4.2 Service Call Errors.....	8-40
8.4.3 Service Call Errors.....	8-41

8.1 Outline

8.1.1 Outline

iPF6100 / iPF6200 / iPF6000S

The printer indicates errors using the display and LEDs.

If an error occurs during printing, the printer status is also displayed on the status monitor of the printer driver.

The following three types of errors are displayed on the display:

- Warning

Status where the print operation can be continued without remedying the cause of the problem. This can, however, adversely affect the printing results.

- Error

Status where the print operation is stopped, and the regular operation cannot be recovered until the cause of the problem is remedied.

- Service call error

When a service call error occurs, the error is not cleared and the error indication remains on the operation panel even if the printer is powered off and on again. (Occurrence of the service call error is indicated again at power-on.)

This measure is taken to prevent user's recovery of the service call error and damages to the printer.

Service call errors can be cleared, however, by starting up the printer in the service mode.

Note that some of the warnings, errors, and service call error described in the following tables may not appear in this printer.

In addition, the message that appears on the screen may not be the same as what is described in the table.

Overview of warnings and error codes

T-8-1

Code*	Diagnosis
0181010x-100x	Ink warning
01841001-1100	Waste ink warning
013412xx-103x	GARO warning
01800500-1010	Printhead warning
03xxxxxx-20xx,24xx	Media feeding error Data mismatch error
03xxxxxx-2Exx	Cover open error
03xxxxxx-25xx	Ink error
03xxxxxx-280x	Printhead error
03xxxxxx-281x	Maintenance cartridge error
03xxxxxx-282x	Adjustment error
03xxxxxx-2Fxx,26xx	Head management sensor unit error Other errors
Exxx-40xx	Service call error

* "x" stands for a numeric or letter.

8.1.2 Outline

iPF6300 / iPF6350 / iPF6300S

The printer indicates errors using the display and LEDs.

If an error occurs during printing, the printer status is also displayed on the status monitor of the printer driver.

The following three types of errors are displayed on the display:

- Warning

Status where the print operation can be continued without remedying the cause of the problem. This can, however, adversely affect the printing results.

- Error

Status where the print operation is stopped, and the regular operation cannot be recovered until the cause of the problem is remedied.

- Service call error

When a service call error occurs, the error is not cleared and the error indication remains on the operation panel even if the printer is powered off and on again.

(Occurrence of the service call error is indicated again at power-on.)

This measure is taken to prevent user's recovery of the service call error and damages to the printer.

Service call errors can be cleared, however, by starting up the printer in the service mode.

Note that some of the warnings, errors, and service call error described in the following tables may not appear in this printer.

In addition, the message that appears on the screen may not be the same as what is described in the table.

8.2 Warning Table

8.2.1 Warnings

iPF6100

* Codes represent the numbers that are displayed in DISPLAY in service mode and that are recorded in PRINTINF. Messages that are not accompanied by a code indication are not logged.

T-8-2

Display message	Code*	Condition detected	Action
Ink Level: Check	0180104-1000	BK ink tank near-empty	Renew the ink tanks.
Ink Level: Check	0180101-1001	Y ink tank near-empty	
Ink Level: Check	0180102-1002	M ink tank near-empty	
Ink Level: Check	0180103-1003	C ink tank near-empty	
Ink Level: Check	0180112-1004	PM ink tank near-empty	
Ink Level: Check	0180113-1005	PC ink tank near-empty	
Ink Level: Check	0180106-1006	MBK ink tank near-empty	
Ink Level: Check	0180106-1007	MBK2 ink tank near-empty	
Ink Level: Check	01810105-1008	GY ink tank near-empty	
Ink Level: Check	01810115-1009	PGY ink tank near-empty	
Ink Level: Check	01810107-100A	R ink tank near-empty	
Ink Level: Check	01810109-100B	B ink tank near-empty	
Ink Level: Check	01810108-100C	G ink tank near-empty	
Problem with Printhead L Chk printing results	01800500-1010	Number of non-discharging nozzles in printhead L: Warning level	Clean the printheads. Renew the printheads. Identify the head management sensor unit.
Problem with Printhead R Chk printing results	01800500-1010	Number of non-discharging nozzles in printhead R: Warning level	
Problem with Printhead L/R Chk printing results	01800500-1010	Number of non-discharging nozzles in both printheads: Warning level	
Prepare for maint cart replacement.	01841001-1100	Maintenance cartridge near-full	Replace the maintenance cartridge.
Prepare for parts replacement. Call for service.		Parts counter W1 level	Check the parts counter in service mode.
Parts replacement time has passed. Call for service.		Parts counter W2 level	After checking the parts counter in service mode, replace any part whose counter is nearing the error value.
GARO W1221	01341221-1030	GARO (image mode): Unknown command	Verify the transmitted data before reprinting.
GARO W1222	01341222-1031	GARO (image mode): Invalid parameter count (no parameters)	
GARO W1223	01341223-1032	GARO (image mode): Required parameter missing	
GARO W1225	01341225-1034	GARO (image mode): Other warning	
GARO W1226	01341226-103A	GARO (image mode): Image processing table error	
GARO W1231	01341231-1035	GARO (setup): Unknown command	
GARO W1232	01341232-1036	GARO (setup): Invalid parameter count	
GARO W1233	01341233-1037	GARO (setup): Required parameter missing	
GARO W1234	01341234-1038	GARO (setup): Data out of bounds	
GARO W1235	01341235-1039	GARO (setup): Other warning	
End of paper feed. Cannot feed paper more.		Forced feed limit	Check the remaining quantity of roll media.

8.2.2 Warnings

iPF6200 / iPF6000S

* Codes represent the numbers that are displayed in DISPLAY in service mode and that are recorded in PRINTINF. Messages that are not accompanied by a code indication are not logged.

T-8-3

Display message	Code*	Condition detected	Action
Ink Level: Check	0180104-1000	BK ink tank near-empty	Renew the ink tanks.
Ink Level: Check	0180101-1001	Y ink tank near-empty	
Ink Level: Check	0180102-1002	M ink tank near-empty	
Ink Level: Check	0180103-1003	C ink tank near-empty	
Ink Level: Check	0180112-1004	PM ink tank near-empty	
Ink Level: Check	0180113-1005	PC ink tank near-empty	
Ink Level: Check	0180106-1006	MBK ink tank near-empty	
Ink Level: Check	0180106-1007	MBK2 ink tank near-empty	
Ink Level: Check	01810105-1008	GY ink tank near-empty	
Ink Level: Check	01810115-1009	PGY ink tank near-empty	
Ink Level: Check	01810107-100A	R ink tank near-empty	
Ink Level: Check	01810109-100B	B ink tank near-empty	
Ink Level: Check	01810108-100C	G ink tank near-empty	
Problem with Printhead L Chk printing results	01800500-1010	Number of non-discharging nozzles in printhead L: Warning level	Clean the printheads. Renew the printheads. Identify the head management sensor unit.
Problem with Printhead R Chk printing results	01800500-1010	Number of non-discharging nozzles in printhead R: Warning level	
Problem with Printhead L/R Chk printing results	01800500-1010	Number of non-discharging nozzles in both printheads: Warning level	
Prepare for maint cart replacement.	01841001-1100	Maintenance cartridge near-full	Replace the maintenance cartridge.
Prepare for parts replacement. Call for service.		Parts counter W1 level	Check the parts counter in service mode.
Parts replacement time has passed. Call for service.		Parts counter W2 level	After checking the parts counter in service mode, replace any part whose counter is nearing the error value.
GARO W1221	01341221-1030	GARO (image mode): Unknown command	Verify the transmitted data before reprinting.
GARO W1222	01341222-1031	GARO (image mode): Invalid parameter count (no parameters)	
GARO W1223	01341223-1032	GARO (image mode): Required parameter missing	
GARO W1225	01341225-1034	GARO (image mode): Other warning	
GARO W1226	01341226-103A	GARO (image mode): Image processing table error	
GARO W1231	01341231-1035	GARO (setup): Unknown command	
GARO W1232	01341232-1036	GARO (setup): Invalid parameter count	
GARO W1233	01341233-1037	GARO (setup): Required parameter missing	
GARO W1234	01341234-1038	GARO (setup): Data out of bounds	
GARO W1235	01341235-1039	GARO (setup): Other warning	
End of paper feed. Cannot feed paper more.		Forced feed limit	Check the remaining quantity of roll media.
Mail box nearly full. Delete unwanted data	011A1001-2901	The free hard disk space left for Personal Boxes in the printer's hard disk does not have more than 1 GB, combined.	Delete unneeded jobs stored in Personal Boxes.
Mail box full. Now printing without saving data.	01861003-2902	100 jobs are stored in the Personal Box.	Delete unneeded jobs stored in Personal Boxes.
Mail box full. Delete unwanted data	011A1006-2906	Saved jobs exceed the Personal Box capacity.	Press the stop button to cancel the print job. Delete print jobs from the queue. Delete unneeded jobs stored on the hard disk.

8.2.3 Warnings

iPF6300 / iPF6350 / iPF6300S

* Codes represent the numbers that are displayed in DISPLAY in service mode and that are recorded in PRINTINF. Messages that are not accompanied by a code indication are not logged.

T-8-4

Display message	Code*	Condition detected	Action
Ink Level: Check	0180104-1000	BK ink tank near-empty	Renew the ink tanks.
Ink Level: Check	0180101-1001	Y ink tank near-empty	Renew the ink tanks.
Ink Level: Check	0180102-1002	M ink tank near-empty	Renew the ink tanks.
Ink Level: Check	0180103-1003	C ink tank near-empty	Renew the ink tanks.
Ink Level: Check	0180106-1006	MBK ink tank near-empty	Renew the ink tanks.
Ink Level: Check	0180106-1007	MBK2 ink tank near-empty	Renew the ink tanks.
Problem with Printhead. Chk printing results	01800500-1010	Number of non-discharging nozzles in printhead: Warning level	Clean the printheads. Renew the printheads. Identify the head management sensor unit.
Prepare for maint cart replacement.	01841001-281A	Maintenance cartridge near-full	Replace the maintenance cartridge.
Prepare for parts replacement. Call for service.		Parts counter W1 level	Check the parts counter in service mode.
Parts replacement time has passed. Call for service.		Parts counter W2 level	After checking the parts counter in service mode, replace any part whose counter is nearing the error value.
GARO W1221	01341221-1030	GARO (image mode): Unknown command	Verify the transmitted data before reprinting.
GARO W1222	01341222-1031	GARO (image mode): Invalid parameter count (no parameters)	Verify the transmitted data before reprinting.
GARO W1223	01341223-1032	GARO (image mode): Required parameter missing	Verify the transmitted data before reprinting.
GARO W1225	01341225-1034	GARO (image mode): Other warning	Verify the transmitted data before reprinting.
GARO W1226	01341226-103A	GARO (image mode): Image processing table error	Verify the transmitted data before reprinting.
GARO W1231	01341231-1035	GARO (setup): Unknown command	Verify the transmitted data before reprinting.
GARO W1232	01341232-1036	GARO (setup): Invalid parameter count	Verify the transmitted data before reprinting.
GARO W1233	01341233-1037	GARO (setup): Required parameter missing	Verify the transmitted data before reprinting.
GARO W1234	01341234-1038	GARO (setup): Data out of bounds	Verify the transmitted data before reprinting.
GARO W1235	01341235-1039	GARO (setup): Other warning	Verify the transmitted data before reprinting.
End of paper feed. Cannot feed paper more.		Forced feed limit	Check the remaining quantity of roll media.
This type of paper is not compatible with HP-GL/2.	01860006-1015	Non-support paper of HP-GL/2	Exchange for the compatible paper to HP-GL/2.
GL2:W0501 The memory is full.	01340501-1040	Memory full (HP-GL/2)	Check if there is the non-image area of the print. Verify the transmitted data before reprinting.
GL2:W0904 The memory is full.	01340904-1048	Overflow of Polygon buffer (HP-GL/2)	Check if there is the non-image area of the print. Verify the transmitted data before reprinting.
GL2:W0903 The memory is full.	01340903-1047	Overflow of replot buffer (HP-GL/2)	Check if there is the non-image area of the print. Verify the transmitted data before reprinting.
GL2:W0502 The parameter is out of range.	01340502-1041	Invalid parameter (HP-GL/2)	Verify the transmitted data before reprinting.
GL2:W0504 This command is not supported.	01340504-1043	Invalid command (HP-GL/2)	Verify the transmitted data before reprinting.
Mail box nearly full. Delete unwanted data	011A1001-2901	The free hard disk space left for Personal Boxes in the printer's hard disk does not have more than 1 GB, combined.	Delete unneeded jobs stored in Personal Boxes.
Mail box full. Now printing without saving data.	01861003-2902	100 jobs are stored in the Personal Box.	Delete unneeded jobs stored in Personal Boxes.
Before borderless printing, move the blue platen switch.	01861004-1049	The platen shutter is closed at the borderless printing.	Open the corresponding platen shutter.
Blue platen switch is dirty. Please clean the switch.	01861004-1050	Platen shutter cleaning warning	Clean the platen shutter.
Not much ink is left. Prepare to replace the ink.	01810103-1003	C ink tank near-empty	Renew the C ink tank.
Not much ink is left. Prepare to replace the ink.	01810102-1002	M ink tank near-empty	Renew the M ink tank.
Not much ink is left. Prepare to replace the ink.	01810101-1001	Y ink tank near-empty	Renew the Y ink tank.
Not much ink is left. Prepare to replace the ink.	01810106-1006	MBK ink tank near-empty	Renew the MBK ink tank.
Not much ink is left. Prepare to replace the ink.	01810104-1000	BK ink tank near-empty	Renew the BK ink tank.
Not much ink is left. Prepare to replace the ink.	01810112-1004	PM ink tank near-empty	Renew the PM ink tank.

Display message	Code*	Condition detected	Action
Not much ink is left. Prepare to replace the ink.	01810113-1005	PC ink tank near-empty	Renew the PC ink tank.
Not much ink is left. Prepare to replace the ink.	01810105-1008	GY ink tank near-empty	Renew the GY ink tank.
Not much ink is left. Prepare to replace the ink.	01810115-1009	PGY ink tank near-empty	Renew the PGY ink tank.
Not much ink is left. Prepare to replace the ink.	01810107-100A	R ink tank near-empty	Renew the R ink tank.
Not much ink is left. Prepare to replace the ink.	01810109-100B	B ink tank near-empty	Renew the B ink tank.
Not much ink is left. Prepare to replace the ink.	01810108-100C	G ink tank near-empty	Renew the G ink tank.
Ink tank is empty. Replace the ink tank.	01810303-1403	C ink tank empty	Renew the C ink tank.
Ink tank is empty. Replace the ink tank.	01810302-1402	M ink tank empty	Renew the M ink tank.
Ink tank is empty. Replace the ink tank.	01810301-1401	Y ink tank empty	Renew the Y ink tank.
Ink tank is empty. Replace the ink tank.	01810306-1406	MBK ink tank empty	Renew the MBK ink tank.
Ink tank is empty. Replace the ink tank.	01810304-1400	BK ink tank empty	Renew the BK ink tank.
Ink tank is empty. Replace the ink tank.	01810312-1404	PM ink tank empty	Renew the PM ink tank.
Ink tank is empty. Replace the ink tank.	01810313-1405	PC ink tank empty	Renew the PC ink tank.
Ink tank is empty. Replace the ink tank.	01810305-1408	GY ink tank empty	Renew the GY ink tank.
Ink tank is empty. Replace the ink tank.	01810315-1409	PGY ink tank empty	Renew the PGY ink tank.
Ink tank is empty. Replace the ink tank.	01810307-140A	R ink tank empty	Renew the R ink tank.
Ink tank is empty. Replace the ink tank.	01810309-140B	B ink tank empty	Renew the B ink tank.
Ink tank is empty. Replace the ink tank.	01810308-140C	G ink tank empty	Renew the G ink tank.
No ink tank loaded. Check ink tank.	01810103-1413	C ink tank removal	Attach the C ink tank.
No ink tank loaded. Check ink tank.	01810102-1412	M ink tank removal	Attach the M ink tank.
No ink tank loaded. Check ink tank.	01810101-1411	Y ink tank removal	Attach the Y ink tank.
No ink tank loaded. Check ink tank.	01810106-1416	MBK ink tank removal	Attach the MBK ink tank.
No ink tank loaded. Check ink tank.	01810104-1410	BK ink tank removal	Attach the BK ink tank.
The paper is too small.	013200D2-1051	Size clip error	Check the media size check. Change the media size.
Maximum jobs stored. Delete unwanted data.	011A1006-2907	Saved jobs exceed the Personal Box capacity.	Press the stop button to cancel the print job. Delete print jobs from the queue. Delete unneeded jobs stored on the hard disk.
No ink tank loaded. Check ink tank.	01830103-1413	C ink tank removal (during printing)	Attach the C ink tank.
No ink tank loaded. Check ink tank.	01830102-1412	M ink tank removal (during printing)	Attach the M ink tank.
No ink tank loaded. Check ink tank.	01830101-1411	Y ink tank removal (during printing)	Attach the Y ink tank.
No ink tank loaded. Check ink tank.	01830106-1416	MBK ink tank removal (during printing)	Attach the MBK ink tank.
No ink tank loaded. Check ink tank.	01830106-1417	MBK ink tank removal (during printing)	Attach the MBK ink tank.
No ink tank loaded. Check ink tank.	01830104-1410	BK ink tank removal (during printing)	Attach the BK ink tank.
No ink tank loaded. Check ink tank.	01830112-1414	PM ink tank removal (during printing)	Attach the BK ink tank.
No ink tank loaded. Check ink tank.	01830113-1415	PC ink tank removal (during printing)	Attach the BK ink tank.
No ink tank loaded. Check ink tank.	01830105-1418	GY ink tank removal (during printing)	Attach the BK ink tank.
No ink tank loaded. Check ink tank.	01830115-1419	PGY ink tank removal (during printing)	Attach the BK ink tank.
No ink tank loaded. Check ink tank.	01830107-141A	R ink tank removal (during printing)	Attach the BK ink tank.
No ink tank loaded. Check ink tank.	01830109-141B	B ink tank removal (during printing)	Attach the BK ink tank.
No ink tank loaded. Check ink tank.	01830108-141C	G ink tank removal (during printing)	Attach the BK ink tank.

Display message	Code*	Condition detected	Action
Unable to detect ink level correctly.	03031101-25B7	Invalidate the ink remaining detection function, when opening the ink tank cover. (during printing)	Renew the ink tank after closing the ink tank cover.
Paper Mismatch.	01061000-1021	Paper type mismatch	Check the type of paper that can be fed and reload the paper.
Borderless printing not possible. Check supported paper.	01861001-1052	Borderless printing disabled	Check the data, and then print again.
Paper position not suitable for borderless printing.	01861001-1053	Borderless printing disabled (engine detection)	Reload the paper.
Paper Width Mismatch.	01063000-1054	Roll media width mismatch	Change the roll media.
Blue platen switch is dirty. Please clean the switch.	01861005-1050	Platen shutter cleaning warning	Clean the platen shutter.

8.3 Error Table

8.3.1 Error Code List

iPF6100

* Codes represent the numbers that are displayed in DISPLAY in service mode.

If the same message is displayed when the printer is turned off, then back on, take action as recommended in the Action column.

T-8-5

Display message	Code*	Condition detected	Action
Clean right P Head Press Online to clear error.	03800501-280D	Printhead R found to have many non-discharging nozzles during a non-discharging inspection (printing paused)	Clean the printheads. Identify the nozzles in a nozzle check pattern. Replace the printheads.
Clean left P Head Press Online to clear error.	03800502-280E	Printhead L found to have many non-discharging nozzles during a non-discharging inspection (printing paused)	
PHeads: wrong pos. Open top cover and check the printhead positions.	03800201-2804 03800202-2807	Printheads L and R installed in reverse position	Reinstall the printheads in correct position.
No right printhead Install right printhead.	03800101-2800	Printhead R not found	Install a printhead on the R side.
No left printhead Install left printhead.	03800102-2808	Printhead L not found	Install a printhead on the L side.
Paper size not detected. Press Load/Eject and reload the paper.	03010000-200C	Unable to detect the leading end of paper	Check the leading end of paper. Reload the paper.
Paper size not detected. Press Load/Eject and reload the paper.	03010000-200D	Unable to detect the trailing end of cut sheet	Check the sheet length. Check to see if paper has not jammed.
Paper size not detected. Press Load/Eject and reload the paper.	03010000-2017	Paper (right) edge detection error	Check the right edge of paper. Check the paper type.
Paper size not detected. Press Load/Eject and reload the paper.	03010000-2018	Paper (left) edge detection error	Check the left edge of paper. Check the paper type.
Cannot adjust printhead. Press Online to clear the error and readjust printhead.	03010000-2820	Printhead registration unadjustable	Check the paper on which a pattern is printed for smears. Check the environment for interferences from outside light. Clean the printheads.
Cannot adjust printhead. Press Online to clear the error and readjust printhead.	03010000-2821	LF unadjustable	Check the paper on which a pattern is printed for smears. Check the environment for interferences from outside light. Clean the printheads.
Hardware error. 03010000-2823 Turn off printer, wait, then turn on again.	03010000-2823	Printhead check error	Check to see if paper has not jammed. Check the paper on which a pattern is printed for smears.

Display message	Code*	Condition detected	Action
Cannot print as specified. Press Load/Eject and replace paper with A4/LTR (vertical) or larger	03010000-2E1F	Undersized paper loaded for internal printing (A4 or larger)	Replace with A4/Letter or any larger-sized paper.
Cannot print as specified. Press Load/Eject and replace paper with A3/11"x17" (vertical) or larger	03010000-2E1F	Undersized paper loaded for internal printing (A3 or larger)	Replace with A3/11"x17" or any larger-sized paper.
Cannot print as specified. Press Load/Eject and replace roll with 10 in. wide or larger roll.	03010000-2E1F	Undersized paper loaded for internal printing (roll media)	Replace with roll media at least 10 inches in width.
Cannot print as specified. Press Load/Eject and replace paper with A2/16.6"x23.4" (vertical) or larger	03010000-2E1F	The first sheet used for adjustment printing or the like was A2 or larger-sized but the second sheet used was smaller than A2.	Prepare about 10 sheets of A2 or larger-sized paper. Replace with A2 or any larger-sized paper.
Cannot feed paper. Remove paper and press Load/Eject.	03010000-2E25	Feeding error	Remove the paper jam and reload the paper.
Cannot detect paper Remove paper and press Load/Eject.	03010000-2E25	Paper jam while feeding/ejecting/printing	Remove the paper jam and reload the paper.
Cannot load. Press Load/Eject and reload the paper.	03010000-2E27	Paper jam during feeding/printing/ejection	Reload the paper.
This paper cannot be used. Check supported paper sizes. Load/Eject: Change Paper	03010000-200E	Undersized paper (cut sheets/roll media)	Replace with larger-sized paper.
This paper cannot be used. Check supported paper sizes. Load/Eject: Change Paper	03010000-200F	Oversized paper (cut sheets/roll media)	Replace with smaller-sized paper.
No sheets. Press Load/Eject and reload the paper.	03010000-2016	Paper worked out of position while printing	Reload the paper
Use another paper. Press Online to clear the error.	03010000-2F33	Unadjustable because of transparent media	Replace with adjustable media.
Paper loaded askew. Press Load/Eject and reload the paper.	03016000-2010	Skew	Correct the skew in the paper and reload it.
Hardware error. 03130000-2E21 Turn off printer, wait, then turn on again.	03130000-2E21	IEEE1394 interface error	Check that the optional IEEE1394 board is mounted. Check the cable connection.
Wrong paper type. Stop: Stop Printing Load/Eject: Change Paper	03061000-2E15	The first and second sheets used for adjustment printing or the like differed in paper type.	Prepare paper of the same type as used for the first sheet for adjustment printing or the like.

Display message	Code*	Condition detected	Action
Paper size not detected. Press Load/Eject and reload the paper.	03010000-200A	Unable to detect the paper width (Paper loaded at an improper position)	Reload the paper
Paper jam. Press Load/Eject and reload the paper.	03010000-2016	Paper jam during feeding/printing/ejection	Reload the paper
Cannot feed paper. Press Load/Eject and reload the paper.	03010000-2016	Paper jam	Reload the paper
Paper size not detected. Press Load/Eject and reload the paper.	03010000-200C	Roll media loading size detection failure	Reload the roll media.
Paper loaded askew. Press Load/Eject and reload the paper.	03016000-2010	Skewed roll media	Rewind the roll media and reload them.
Cannot adjust eccentric. Press Online to clear the error.	03010000-2822	Eccentricity correction disabled	Check to see if paper has not jammed.
Cassette printing is selected. Press Load/Eject and load sheets.	03860200-2E02	Data with a cut sheet specification has been received but no cut sheets are loaded.	Load cut sheets at the paper tray port.
Roll printing is selected, but sheets are loaded. Press Load/Eject and remove the sheets.	03860200-2E0A	Data with a roll media specification has been received when a cut sheet tray is loaded.	Replace with roll media.
Roll printing is selected. Press Load/Eject and load a roll.	03060A00-2E00	Data with a roll media specification has been received but no roll media are loaded.	Load roll media.
No Roll Feed Unit. Turn printer off and install roll feed unit.	03060A00-2E0E	Roll media unit not installed	Install the roll media unit.
The roll is empty. Load/Eject: Change Paper	03060A00-2E1B	Roll media end	Renew the supply of roll media.
Wrong paper feed slot for this paper type. Press Load/Eject and reload the paper.	03061000-2E15	Paper type mismatch	Check the type of paper that can be fed and reload the paper.
Manual printing is selected, but a roll is loaded. Press Load/Eject and remove the roll.	03862000-2E0C	Data with a cut sheet specification has been received when roll media are loaded.	Load cut sheets at the paper tray port.
Hardware error. 03130031-291D Turn off printer, wait, then turn on again.	03130031-291D	Spur cam sensor detection failure	Check the spur cam sensor.
Hardware error. 03130031-2E23 Turn off printer, wait, then turn on again.	03130031-2E23	Cutter unit failure	Check the cutter unit.

Display message	Code*	Condition detected	Action
Hardware error. 03130031-2E14 Turn off printer, wait, then turn on again.	03130031-2F14	Writing to the ASIC register disabled	Replace the main controller PCB
Hardware error. 03130031-2E16 Turn off printer, wait, then turn on again.	03130031-2F16	Mist fan error	Check the mist fan.
Hardware error. 03130031-2E17 Turn off printer, wait, then turn on again.	03130031-2F17	Suction fan lock detection error	Check the suction fan.
Hardware error. 03130031-2E20 Turn off printer, wait, then turn on again.	03130031-2F20	Pump motor cam position error	Check the purge unit.
Hardware error. 03130031-2E22 Turn off printer, wait, then turn on again.	03130031-2F22	Pump travel timeout	Check the purge unit.
Hardware error. 03130031-2E23 Turn off printer, wait, then turn on again.	03130031-2F23	Pump motor error Pump inoperable	Check the purge unit.
Hardware error. 03130031-2E24 Turn off printer, wait, then turn on again.	03130031-2F24	Cutter travel timeout	Check the cutter unit.
Hardware error. 03130031-2E25 Turn off printer, wait, then turn on again.	03130031-2F25	Unable to detect the carriage motor home position	Check the carriage unit. Check the linear encoder for smears.
Hardware error. 03130031-2E26 Turn off printer, wait, then turn on again.	03130031-2F26	Carriage inoperable	Check the carriage unit and surrounding parts.
Hardware error. 03130031-2E27 Turn off printer, wait, then turn on again.	03130031-2F27	Carriage travel timeout	Check the carriage unit and surrounding parts.
Hardware error. 03130031-2E17 Turn off printer, wait, then turn on again.	03130031-2F17	Pump encoder sensor error	Check the purge unit.
Hardware error. 03130031-2E2A Turn off printer, wait, then turn on again.	03130031-2F2A	Unable to detect the feed roller home position	Check the feed roller encoder and surrounding part. Check to see if paper has not jammed.
Hardware error. 03130031-2E29 Turn off printer, wait, then turn on again.	03030000-2F29	Feed motor timeout (Roll media)	Check the roll feed unit. Check roll media. Check to see if paper has not jammed in the printer.
Hardware error. 03130031-2E2E Turn off printer, wait, then turn on again.	03130031-2F2E	Roll travel timeout	Check the roll feed unit.

Display message	Code*	Condition detected	Action
Hardware error. 03130031-4027 Turn off printer, wait, then turn on again.	03130031-4027	Lift travel timeout error	Check the carriage unit and surrounding parts.
Hardware error. 03130031-2E13 Turn off printer, wait, then turn on again.	03130031-2F13	A/D converter external trigger output stop detection hardware error 1	If both printheads are signaled faulty, take the following corrective action: 1) Replace the left printhead with a normal one. 2) Because the error indication lasts, turn the printer off, then back on. 3) Replace the right printhead with a normal one, as the automatic replacement of the right printhead is suggested. If a printhead is not at fault, replace the main controller board.
Hardware error. 03130031-2E32 Turn off printer, wait, then turn on again.	03130031-2F32	Multi sensor error	Check the environment for interferences from outside light. Replace the multi sensor unit.
Cannot calibrate. Press OK and try calibration again.	03130031-2F34	Color calibration adjustment failure error	Check the environment for interferences from outside light. Replace the multi sensor unit.
Calibration There is a problem with the multi-sensor. Press OK to cancel calibration.	03130031-2F35	Color calibration disabled	Check the parts counter in service mode. Replace the multi sensor unit.
Hardware error. 03130031-2F3A Turn off printer, wait, then turn on again.	03130031-2F3A	Valve motor error	Check the ink supply unit.
Hardware error. 03130031-2F3B Turn off printer, wait, then turn on again.	03130031-2F3B	CS communication error	Remove the ink tanks and then reload them. Check the main controller PCB.
Hardware error. 03130031-260E Turn off printer, wait, then turn on again.	0130031-260E	Gap detection error	Check the carriage unit and surrounding parts. Replace the main controller PCB.
Hardware error. 03130031-2618 Turn off printer, wait, then turn on again.	03130031-2618	VH voltage error	Check the power supply unit.
Hardware error. 03130031-260F Turn off printer, wait, then turn on again.	03130031-260F	Gap reference surface error	Replace the reference surface sheet.
Roll feed unit err Turn off printer and check roll feed unit	03060A00-2E24	Roll feed unit failure	Replace the roll feed unit.
Unknown file. Check file format. Turn off printer, wait a while, then turn it on again.	03900001-4049	ROM data for another model has been transferred.	Transmit valid ROM data.
Unknown file. Check file format. Turn off printer, wait a while, then turn it on again.	03900001-4042	MIT data transfer failure	Verify the validity of MID data before transferring it.
Roll sensor cannot detect. Turn on printer again.	03130031-291A	Roll sensor detection failure	Check the roll feed unit.

Display message	Code*	Condition detected	Action
Hardware error. 03130031-2F2B Turn off printer, wait, then turn on again.	03130031-2F2B	LF operation failure	Check to see if paper has not jammed. Check the feed motor and feed roller.
Right printhead error Open top cover and replace the right printhead.	03800201-2802	Invalid printhead R installed	Replace printhead R
Left printhead error Open top cover and replace the left printhead.	03800202-280A	Invalid printhead L installed	Replace printhead L
Right printhead error Open top cover and replace the right printhead.	03800301-2801	Printhead R DI compensation failure	Replace printhead R
Left printhead error Open top cover and replace the left printhead.	03800302-2809	Printhead L DI compensation failure	Replace printhead L
Right printhead error Open top cover and replace the right printhead.	03800401 -2803	Printhead R EEPROM error	Replace printhead R
Left printhead error Open top cover and replace the left printhead.	03800402-280B	Printhead L EEPROM error	Replace printhead L
Right printhead error Open top cover and replace the right printhead.	03800201-2812	Wrong printhead model installed on printhead R	Install printhead PF-03 on printhead R.
Left printhead error Open top cover and replace the left printhead.	03800202-2813	Wrong printhead model installed on printhead L	Install printhead PF-03 on printhead L.
Hardware error. 03800500-2F2F Turn off printer, wait, then turn on again.	03800500-2F2F	Non-discharging error	Identify the non-discharging unit Replace the non-discharging unit Replace the printheads
Hardware error. 03800500-2F30 Turn off printer, wait, then turn on again.	03800500-2F30	Non-discharging position adjustment error	Identify the non-discharging unit Replace the non-discharging unit Replace the printheads
Ink tank is empty. Press OK and replace ink tank.	03810104 -2500	Bk ink tank empty	Renew the Bk ink tank
Ink tank is empty. Press OK and replace ink tank.	03810101-2501	Y ink tank empty	Renew the Y ink tank
Ink tank is empty. Press OK and replace ink tank.	03810102 -2502	M ink tank empty	Renew the M ink tank
Ink tank is empty. Press OK and replace ink tank.	03810103 -2503	C ink tank empty	Renew the C ink tank
Ink tank is empty. Press OK and replace ink tank.	03810112 -2504	PM ink tank empty	Renew the PM ink tank
Ink tank is empty. Press OK and replace ink tank.	03810113-2505	PC ink tank empty	Renew the PC ink tank
Ink tank is empty. Press OK and replace ink tank.	03810106-2506	MBk ink tank empty	Renew the MBk ink tank
Ink tank is empty. Press OK and replace ink tank.	03810106-2507	MBk2 ink tank empty	Renew the MBk ink tank

Display message	Code*	Condition detected	Action
Ink tank is empty. Press OK and replace ink tank.	03810105 -2508	GY ink tank empty	Renew the GY ink tank
Ink tank is empty. Press OK and replace ink tank.	03810115-2509	PGY ink tank empty	Renew the PGY ink tank
Ink tank is empty. Press OK and replace ink tank.	03810107 -250A	R ink tank empty	Renew the R ink tank
Ink tank is empty. Press OK and replace ink tank.	03810109 -250B	B ink tank empty	Renew the B ink tank
Ink tank is empty. Press OK and replace ink tank.	03810108 -250C	G ink tank empty	Renew the G ink tank
Ink insufficient. Press OK and replace ink tank.	03810204-2580	Low on the Bk ink tank (as during cleaning)	Replace with a fully replenished Bk ink tank
Ink insufficient. Press OK and replace ink tank.	03810201-2581	Low on the Y ink tank (as during cleaning)	Replace with a fully replenished Y ink tank
Ink insufficient. Press OK and replace ink tank.	03810202-2582	Low on the M ink tank (as during cleaning)	Replace with a fully replenished M ink tank
Ink insufficient. Press OK and replace ink tank.	03810203-2583	Low on the C ink tank (as during cleaning)	Replace with a fully replenished C ink tank
Ink insufficient. Press OK and replace ink tank.	03810212-2584	Low on the PM ink tank (as during cleaning)	Replace with a fully replenished PM ink tank
Ink insufficient. Press OK and replace ink tank.	03810213-2585	Low on the PC ink tank (as during cleaning)	Replace with a fully replenished PC ink tank
Ink insufficient. Press OK and replace ink tank.	03810206-2586	Low on the MBk ink tank (as during cleaning)	Replace with a fully replenished MBk ink tank
Ink insufficient. Press OK and replace ink tank.	03810205-2588	Low on the GY ink tank (as during cleaning)	Replace with a fully replenished GY ink tank
Ink insufficient. Press OK and replace ink tank.	03810215-2589	Low on the PGY ink tank (as during cleaning)	Replace with a fully replenished PGY ink tank
Ink insufficient. Press OK and replace ink tank.	03810207-258A	Low on the R ink tank (as during cleaning)	Replace with a fully replenished R ink tank
Ink insufficient. Press OK and replace ink tank.	03810209-258B	Low on the B ink tank (as during cleaning)	Replace with a fully replenished B ink tank
Ink insufficient. Press OK and replace ink tank.	03810208-258C	Low on the G ink tank (as during cleaning)	Replace with a fully replenished G ink tank
Ink insufficient. Press OK and replace ink tank.	03810204-2590	Low on the Bk ink tank (during pre- printing checks)	Replace with a fully replenished Bk ink tank
Ink insufficient. Press OK and replace ink tank.	03810201-2591	Low on the Y ink tank (during pre- printing checks)	Replace with a fully replenished Y ink tank
Ink insufficient. Press OK and replace ink tank.	03810202-2592	Low on the M ink tank (during pre- printing checks)	Replace with a fully replenished M ink tank
Ink insufficient. Press OK and replace ink tank.	03810203-2593	Low on the C ink tank (during pre- printing checks)	Replace with a fully replenished C ink tank
Ink insufficient. Press OK and replace ink tank.	03810212-2594	Low on the PM ink tank (during pre- printing checks)	Replace with a fully replenished PM ink tank
Ink insufficient. Press OK and replace ink tank.	03810213-2595	Low on the PC ink tank (during pre- printing checks)	Replace with a fully replenished PC ink tank
Ink insufficient. Press OK and replace ink tank.	03810206-2596	Low on the MBk ink tank (during pre- printing checks)	Replace with a fully replenished MBk ink tank
Ink insufficient. Press OK and replace ink tank.	03810205-2598	Low on the GY ink tank (during pre- printing checks)	Replace with a fully replenished GY ink tank
Ink insufficient. Press OK and replace ink tank.	03810215-2599	Low on the PGY ink tank (during pre- printing checks)	Replace with a fully replenished PGY ink tank

Display message	Code*	Condition detected	Action
Ink insufficient. Press OK and replace ink tank.	03810207-259A	Low on the R ink tank (during pre-printing checks)	Replace with a fully replenished R ink tank
Ink insufficient. Press OK and replace ink tank.	03810209-259B	Low on the B ink tank (during pre-printing checks)	Replace with a fully replenished B ink tank
Ink insufficient. Press OK and replace ink tank.	03810208-259C	Low on the G ink tank (during pre-printing checks)	Replace with a fully replenished G ink tank
Ink tank error. Press OK and replace ink tank.	03830204-2540	Bk ink tank ID error	Replace with a valid Bk ink tank
Ink tank error. Press OK and replace ink tank.	03830201-2541	Y ink tank ID error	Replace with a valid Y ink tank
Ink tank error. Press OK and replace ink tank.	03830202-2542	M ink tank ID error	Replace with a valid M ink tank
Ink tank error. Press OK and replace ink tank.	03830203-2543	C ink tank ID error	Replace with a valid C ink tank
Ink tank error. Press OK and replace ink tank.	03830212-2544	PM ink tank ID error	Replace with a valid PM ink tank
Ink tank error. Press OK and replace ink tank.	03830213-2545	PC ink tank ID error	Replace with a valid PC ink tank
Ink tank error. Press OK and replace ink tank.	03830206-2546	MBk ink tank ID error	Replace with a valid MBk ink tank
Ink tank error. Press OK and replace ink tank.	03830206-2547	MBk2 ink tank ID error	Replace with a valid MBk ink tank
Ink tank error. Press OK and replace ink tank.	03830205-2548	GY ink tank ID error	Replace with a valid GY ink tank
Ink tank error. Press OK and replace ink tank.	03830215-2549	PGY ink tank ID error	Replace with a valid PGY ink tank
Ink tank error. Press OK and replace ink tank.	03830207-254A	R ink tank ID error	Replace with a valid R ink tank
Ink tank error. Press OK and replace ink tank.	03830209-254B	B ink tank ID error	Replace with a valid B ink tank
Ink tank error. Press OK and replace ink tank.	03830208-254C	G ink tank ID error	Replace with a valid G ink tank
No ink tank loaded. Press OK and check ink tank.	03830104-2520	BK ink tank not installed	Install a Bk ink tank
No ink tank loaded. Press OK and check ink tank.	03830101-2521	Y ink tank not installed	Install a Y ink tank
No ink tank loaded. Press OK and check ink tank.	03830102-2522	M ink tank not installed	Install a M ink tank
No ink tank loaded. Press OK and check ink tank.	03830103-2523	C ink tank not installed	Install a C ink tank
No ink tank loaded. Press OK and check ink tank.	03830112-2524	PM ink tank not installed	Install a PM ink tank

Display message	Code*	Condition detected	Action
No ink tank loaded. Press OK and check ink tank.	03830113-2525	PC ink tank not installed	Install a PC ink tank
No ink tank loaded. Press OK and check ink tank.	03830106-2526	MBK ink tank not installed	Install a MBK ink tank
No ink tank loaded. Press OK and check ink tank.	03830106-2527	MBK2 ink tank not installed	Install a MBK ink tank
No ink tank loaded. Press OK and check ink tank.	03830105-2528	GY ink tank not installed	Install a GY ink tank
No ink tank loaded. Press OK and check ink tank.	03830115-2529	PGY ink tank not installed	Install a PGY ink tank
No ink tank loaded. Press OK and check ink tank.	03830107-252A	R ink tank not installed	Install a R ink tank
No ink tank loaded. Press OK and check ink tank.	03830109-252B	B ink tank not installed	Install a B ink tank
No ink tank loaded. Press OK and check ink tank.	03830108-252C	G ink tank not installed	Install a G ink tank
Ink tank:BK error Press OK and replace ink tank.	03830304-2560	Bk ink tank EEPROM error	Renew the Bk ink tank
Ink tank:BK error Press OK and replace ink tank.	03830304-2561	Y ink tank EEPROM error	Renew the Y ink tank
Ink tank:BK error Press OK and replace ink tank.	03830304-2562	M ink tank EEPROM error	Renew the M ink tank
Ink tank:BK error Press OK and replace ink tank.	03830304-2563	C ink tank EEPROM error	Renew the C ink tank
Ink tank:BK error Press OK and replace ink tank.	03830304-2564	PM ink tank EEPROM error	Renew the PM ink tank
Ink tank:BK error Press OK and replace ink tank.	03830304-2565	PC ink tank EEPROM error	Renew the PC ink tank
Ink tank:BK error Press OK and replace ink tank.	03830304-2566	MBk ink tank EEPROM error	Renew the MBk ink tank
Ink tank:BK error Press OK and replace ink tank.	03830304-2567	MBk2 ink tank EEPROM error	Renew the MBk ink tank
Ink tank:BK error Press OK and replace ink tank.	03830304-2568	GY ink tank EEPROM error	Renew the GY ink tank
Ink tank:BK error Press OK and replace ink tank.	03830304-2569	PGY ink tank EEPROM error	Renew the PGY ink tank
Ink tank:BK error Press OK and replace ink tank.	03830304-256A	R ink tank EEPROM error	Renew the R ink tank
Ink tank:BK error Press OK and replace ink tank.	03830304-256B	B ink tank EEPROM error	Renew the B ink tank

Display message	Code*	Condition detected	Action
Ink tank: BK error Press OK and replace ink tank.	03830304-256C	G ink tank EEPROM error	Renew the G ink tank
Top cover is open. Turn off printer, wait a while, and turn it on again.	03031000-2E0F	Top cover abnormally open	Close the top cover and turn on the printer again.
Ink tank cover is open. Turn off printer, wait a while, and turn it on again.	03031000-2E10	Ink tank cover abnormally open	Close the ink tank cover and turn on the printer again.
Maintenance cartridge full. Replace the maintenance cartridge.	03841001-2819	Maintenance cartridge full	Renew the maintenance cartridge.
No Maintenance Cartridge capacity. Replace the maintenance cartridge.	03841001-281B	Not enough space in the maintenance cartridge prior to cleaning	Replace the maintenance cartridge.
No maintenance cartridge. Check the maintenance cartridge.	03841101-2818	Maintenance cartridge not available	Set a maintenance cartridge. Insert the maintenance cartridge fully into position.
Maintenance cartridge problem. Replace the maintenance cartridge.	03841201-2816	Maintenance cartridge EEPROM error	Renew the maintenance cartridge.
Maintenance cartridge problem. Replace the maintenance cartridge.	03841201-2817	Maintenance cartridge ID error	Renew the maintenance cartridge.
Roll printing is selected, but sheets are loaded. Press OK, remove the sheets, and load a roll.	03860002-2E0A	Data with a roll media specification has been received when a sheet tray is loaded.	Reload the cut sheets.
Borderless printing not possible. Check roll width and spacers. Online: Print Load/Eject: Change Paper	03861001-2405	Paper loaded at a position inaccessible for borderless printing	Check to see if a borderless printing spacer is installed. Reload the paper.
Borderless printing not possible. Check paper size setting. Online: Print Load/Eject: Change Paper	03861001-2406	Data unfit for borderless printing	Check the paper size. Change the paper size.
Insufficient paper for job Online: Print Stop: Stop Printing Load/Eject: Change Paper	03862000-2E09	Not enough roll media on remaining roll media quantity detection	Renew the supply of roll media.
Wrong paper size. Check paper size setting on computer. Online: Print Stop: Stop Printing	03063000-2E08	Mismatch between data width and paper width	Verify the paper size setting.
Cannot cut paper. Press Load/Eject and reload the paper.	03870001-2015	Cutting failure	Cut paper manually. Check the cutter.

8.3.2 Error Code List

iPF6200 / iPF6000S

* Codes represent the numbers that are displayed in DISPLAY in service mode.

If the same message is displayed when the printer is turned off, then back on, take action as recommended in the Action column.

T-8-6

Display message	Code*	Condition detected	Action
Clean right P Head Press Online to clear error.	03800501-280D	Printhead R found to have many non-discharging nozzles during a non-discharging inspection (printing paused)	Clean the printheads. Identify the nozzles in a nozzle check pattern. Replace the printheads.
Clean left P Head Press Online to clear error.	03800502-280E	Printhead L found to have many non-discharging nozzles during a non-discharging inspection (printing paused)	
PHeads: wrong pos. Open top cover and check the printhead positions.	03800201-2804 03800202-2807	Printheads L and R installed in reverse position	Reinstall the printheads in correct position.
No right printhead Install right printhead.	03800101-2800	Printhead R not found	Install a printhead on the R side.
No left printhead Install left printhead.	03800102-2808	Printhead L not found	Install a printhead on the L side.
Paper size not detected. Press Load/Eject and reload the paper.	03010000-200C	Unable to detect the leading end of paper	Check the leading end of paper. Reload the paper.
Paper size not detected. Press Load/Eject and reload the paper.	03010000-200D	Unable to detect the trailing end of cut sheet	Check the sheet length. Check to see if paper has not jammed.
Paper size not detected. Press Load/Eject and reload the paper.	03010000-2017	Paper (right) edge detection error	Check the right edge of paper. Check the paper type.
Paper size not detected. Press Load/Eject and reload the paper.	03010000-2018	Paper (left) edge detection error	Check the left edge of paper. Check the paper type.
Cannot adjust printhead. Press Online to clear the error and readjust printhead.	03010000-2820	Printhead registration unadjustable	Check the paper on which a pattern is printed for smears. Check the environment for interferences from outside light. Clean the printheads.
Cannot adjust printhead. Press Online to clear the error and readjust printhead.	03010000-2821	LF unadjustable	Check the paper on which a pattern is printed for smears. Check the environment for interferences from outside light. Clean the printheads.
Hardware error. 03010000-2823 Turn off printer, wait, then turn on again.	03010000-2823	Printhead check error	Check to see if paper has not jammed. Check the paper on which a pattern is printed for smears.
Cannot print as specified. Press Load/Eject and replace paper with A4/LTR (vertical) or larger	03010000-2E1F	Undersized paper loaded for internal printing (A4 or larger)	Replace with A4/Letter or any larger-sized paper.

Display message	Code*	Condition detected	Action
Cannot print as specified. Press Load/Eject and replace paper with A3/11"x17" (vertical) or larger	03010000-2E1F	Undersized paper loaded for internal printing (A3 or larger)	Replace with A3/11"x17" or any larger-sized paper.
Cannot print as specified. Press Load/Eject and replace roll with 10 in. wide or larger roll.	03010000-2E1F	Undersized paper loaded for internal printing (roll media)	Replace with roll media at least 10 inches in width.
Cannot print as specified. Press Load/Eject and replace paper with A2/16.6"x23.4" (vertical) or larger	03010000-2E1F	The first sheet used for adjustment printing or the like was A2 or larger-sized but the second sheet used was smaller than A2.	Prepare about 10 sheets of A2 or larger-sized paper. Replace with A2 or any larger-sized paper.
Cannot feed paper. Remove paper and press Load/Eject.	03010000-2E25	Feeding error	Remove the paper jam and reload the paper.
Cannot detect paper Remove paper and press Load/Eject.	03010000-2E25	Paper jam while feeding/ejecting/printing	Remove the paper jam and reload the paper.
Cannot load. Press Load/Eject and reload the paper.	03010000-2E27	Paper jam during feeding/printing/ejection	Reload the paper.
This paper cannot be used. Check supported paper sizes. Load/Eject: Change Paper	03010000-200E	Undersized paper (cut sheets/roll media)	Replace with larger-sized paper.
This paper cannot be used. Check supported paper sizes. Load/Eject: Change Paper	03010000-200F	Oversized paper (cut sheets/roll media)	Replace with smaller-sized paper.
No sheets. Press Load/Eject and reload the paper.	03010000-2016	Paper worked out of position while printing	Reload the paper
Use another paper. Press Online to clear the error.	03010000-2F33	Unadjustable because of transparent media	Replace with adjustable media.
Paper loaded askew. Press Load/Eject and reload the paper.	03016000-2010	Skew	Correct the skew in the paper and reload it.
Hardware error. 03130000-2E21 Turn off printer, wait, then turn on again.	03130000-2E21	IEEE1394 interface error	Check that the optional IEEE1394 board is mounted. Check the cable connection.
Wrong paper type. Stop: Stop Printing Load/Eject: Change Paper	03061000-2E15	The first and second sheets used for adjustment printing or the like differed in paper type.	Prepare paper of the same type as used for the first sheet for adjustment printing or the like.
Paper size not detected. Press Load/Eject and reload the paper.	03010000-200A	Unable to detect the paper width (Paper loaded at an improper position)	Reload the paper
Paper jam. Press Load/Eject and reload the paper.	03010000-2016	Paper jam during feeding/printing/ejection	Reload the paper

Display message	Code*	Condition detected	Action
Cannot feed paper. Press Load/Eject and reload the paper.	03010000-2016	Paper jam	Reload the paper
Paper size not detected. Press Load/Eject and reload the paper.	03010000-200C	Roll media loading size detection failure	Reload the roll media.
Paper loaded askew. Press Load/Eject and reload the paper.	03016000-2010	Skewed roll media	Rewind the roll media and reload them.
Cannot adjust eccentric. Press Online to clear the error.	03010000-2822	Eccentricity correction disabled	Check to see if paper has not jammed.
Cassette printing is selected. Press Load/Eject and load sheets.	03860200-2E02	Data with a cut sheet specification has been received but no cut sheets are loaded.	Load cut sheets at the paper tray port.
Roll printing is selected, but sheets are loaded. Press Load/Eject and remove the sheets.	03860200-2E0A	Data with a roll media specification has been received when a cut sheet tray is loaded.	Replace with roll media.
Roll printing is selected. Press Load/Eject and load a roll.	03060A00-2E00	Data with a roll media specification has been received but no roll media are loaded.	Load roll media.
No Roll Feed Unit. Turn printer off and install roll feed unit.	03060A00-2E0E	Roll media unit not installed	Install the roll media unit.
The roll is empty. Load/Eject: Change Paper	03060A00-2E1B	Roll media end	Renew the supply of roll media.
Wrong paper feed slot for this paper type. Press Load/Eject and reload the paper.	03061000-2E15	Paper type mismatch	Check the type of paper that can be fed and reload the paper.
Manual printing is selected, but a roll is loaded. Press Load/Eject and remove the roll.	03862000-2E0C	Data with a cut sheet specification has been received when roll media are loaded.	Load cut sheets at the paper tray port.
Hardware error. 03130031-291D Turn off printer, wait, then turn on again.	03130031-291D	Spur cam sensor detection failure	Check the spur cam sensor.
Hardware error. 03130031-2E23 Turn off printer, wait, then turn on again.	03130031-2E23	Cutter unit failure	Check the cutter unit.
Hardware error. 03130031-2E14 Turn off printer, wait, then turn on again.	03130031-2F14	Writing to the ASIC register disabled	Replace the main controller PCB
Hardware error. 03130031-2E16 Turn off printer, wait, then turn on again.	03130031-2F16	Mist fan error	Check the mist fan.

Display message	Code*	Condition detected	Action
Hardware error. 03130031-2E17 Turn off printer, wait, then turn on again.	03130031-2F17	Suction fan lock detection error	Check the suction fan.
Hardware error. 03130031-2E20 Turn off printer, wait, then turn on again.	03130031-2F20	Pump motor cam position error	Check the purge unit.
Hardware error. 03130031-2E22 Turn off printer, wait, then turn on again.	03130031-2F22	Pump travel timeout	Check the purge unit.
Hardware error. 03130031-2E23 Turn off printer, wait, then turn on again.	03130031-2F23	Pump motor error Pump inoperable	Check the purge unit.
Hardware error. 03130031-2E24 Turn off printer, wait, then turn on again.	03130031-2F24	Cutter travel timeout	Check the cutter unit.
Hardware error. 03130031-2E25 Turn off printer, wait, then turn on again.	03130031-2F25	Unable to detect the carriage motor home position	Check the carriage unit. Check the linear encoder for smears.
Hardware error. 03130031-2E26 Turn off printer, wait, then turn on again.	03130031-2F26	Carriage inoperable	Check the carriage unit and surrounding parts.
Hardware error. 03130031-2E27 Turn off printer, wait, then turn on again.	03130031-2F27	Carriage travel timeout	Check the carriage unit and surrounding parts.
Hardware error. 03130031-2E17 Turn off printer, wait, then turn on again.	03130031-2F17	Pump encoder sensor error	Check the purge unit.
Hardware error. 03130031-2E2A Turn off printer, wait, then turn on again.	03130031-2F2A	Unable to detect the feed roller home position	Check the feed roller encoder and surrounding part. Check to see if paper has not jammed.
Hardware error. 03130031-2E29 Turn off printer, wait, then turn on again.	03030000-2F29	Feed motor timeout (Roll media)	Check the roll feed unit. Check roll media. Check to see if paper has not jammed in the printer.
Hardware error. 03130031-2E2E Turn off printer, wait, then turn on again.	03130031-2F2E	Roll travel timeout	Check the roll feed unit.
Hardware error. 03130031-4027 Turn off printer, wait, then turn on again.	03130031-4027	Lift travel timeout error	Check the carriage unit and surrounding parts.

Display message	Code*	Condition detected	Action
Hardware error. 03130031-2E13 Turn off printer, wait, then turn on again.	03130031-2F13	A/D converter external trigger output stop detection hardware error 1	If both printheads are signaled faulty, take the following corrective action: 1) Replace the left printhead with a normal one. 2) Because the error indication lasts, turn the printer off, then back on. 3) Replace the right printhead with a normal one, as the automatic replacement of the right printhead is suggested. If a printhead is not at fault, replace the main controller board.
Hardware error. 03130031-2E32 Turn off printer, wait, then turn on again.	03130031-2F32	Multi sensor error	Check the environment for interferences from outside light. Replace the multi sensor unit.
Cannot calibrate. Press OK and try calibration again.	03130031-2F34	Color calibration adjustment failure error	Check the environment for interferences from outside light. Replace the multi sensor unit.
Calibration There is a problem with the multi-sensor. Press OK to cancel calibration.	03130031-2F35	Color calibration disabled	Check the parts counter in service mode. Replace the multi sensor unit.
Hardware error. 03130031-2F3A Turn off printer, wait, then turn on again.	03130031-2F3A	Valve motor error	Check the ink supply unit.
Hardware error. 03130031-2F3B Turn off printer, wait, then turn on again.	03130031-2F3B	CS communication error	Remove the ink tanks and then reload them. Check the main controller PCB.
Hardware error. 03130031-260E Turn off printer, wait, then turn on again.	0130031-260E	Gap detection error	Check the carriage unit and surrounding parts. Replace the main controller PCB.
Hardware error. 03130031-2618 Turn off printer, wait, then turn on again.	03130031-2618	VH voltage error	Check the power supply unit.
Hardware error. 03130031-260F Turn off printer, wait, then turn on again.	03130031-260F	Gap reference surface error	Replace the reference surface sheet.
Roll feed unit err Turn off printer and check roll feed unit	03060A00-2E24	Roll feed unit failure	Replace the roll feed unit.
Unknown file. Check file format. Turn off printer, wait a while, then turn it on again.	03900001-4049	ROM data for another model has been transferred.	Transmit valid ROM data.
Unknown file. Check file format. Turn off printer, wait a while, then turn it on again.	03900001-4042	MIT data transfer failure	Verify the validity of MID data before transferring it.
Roll sensor cannot detect. Turn on printer again.	03130031-291A	Roll sensor detection failure	Check the roll feed unit.
Hardware error. 03130031-2F2B Turn off printer, wait, then turn on again.	03130031-2F2B	LF operation failure	Check to see if paper has not jammed. Check the feed motor and feed roller.

Display message	Code*	Condition detected	Action
Right printhead error Open top cover and replace the right printhead.	03800201-2802	Invalid printhead R installed	Replace printhead R
Left printhead error Open top cover and replace the left printhead.	03800202-280A	Invalid printhead L installed	Replace printhead L
Right printhead error Open top cover and replace the right printhead.	03800301-2801	Printhead R DI compensation failure	Replace printhead R
Left printhead error Open top cover and replace the left printhead.	03800302-2809	Printhead L DI compensation failure	Replace printhead L
Right printhead error Open top cover and replace the right printhead.	03800401-2803	Printhead R EEPROM error	Replace printhead R
Left printhead error Open top cover and replace the left printhead.	03800402-280B	Printhead L EEPROM error	Replace printhead L
Right printhead error Open top cover and replace the right printhead.	03800201-2812	Wrong printhead model installed on printhead R	Install printhead PF-03 on printhead R.
Left printhead error Open top cover and replace the left printhead.	03800202-2813	Wrong printhead model installed on printhead L	Install printhead PF-03 on printhead L.
Hardware error. 03800500-2F2F Turn off printer, wait, then turn on again.	03800500-2F2F	Non-discharging error	Identify the non-discharging unit Replace the non-discharging unit Replace the printheads
Hardware error. 03800500-2F30 Turn off printer, wait, then turn on again.	03800500-2F30	Non-discharging position adjustment error	Identify the non-discharging unit Replace the non-discharging unit Replace the printheads
Ink tank is empty. Press OK and replace ink tank.	03810104-2500	Bk ink tank empty	Renew the Bk ink tank
Ink tank is empty. Press OK and replace ink tank.	03810101-2501	Y ink tank empty	Renew the Y ink tank
Ink tank is empty. Press OK and replace ink tank.	03810102-2502	M ink tank empty	Renew the M ink tank
Ink tank is empty. Press OK and replace ink tank.	03810103-2503	C ink tank empty	Renew the C ink tank
Ink tank is empty. Press OK and replace ink tank.	03810112-2504	PM ink tank empty	Renew the PM ink tank
Ink tank is empty. Press OK and replace ink tank.	03810113-2505	PC ink tank empty	Renew the PC ink tank
Ink tank is empty. Press OK and replace ink tank.	03810106-2506	MBk ink tank empty	Renew the MBk ink tank
Ink tank is empty. Press OK and replace ink tank.	03810106-2507	MBk2 ink tank empty	Renew the MBk ink tank
Ink tank is empty. Press OK and replace ink tank.	03810105-2508	GY ink tank empty	Renew the GY ink tank
Ink tank is empty. Press OK and replace ink tank.	03810115-2509	PGY ink tank empty	Renew the PGY ink tank

Display message	Code*	Condition detected	Action
Ink tank is empty. Press OK and replace ink tank.	03810107 -250A	R ink tank empty	Renew the R ink tank
Ink tank is empty. Press OK and replace ink tank.	03810109 -250B	B ink tank empty	Renew the B ink tank
Ink tank is empty. Press OK and replace ink tank.	03810108 -250C	G ink tank empty	Renew the G ink tank
Ink insufficient. Press OK and replace ink tank.	03810204-2580	Low on the Bk ink tank (as during cleaning)	Replace with a fully replenished Bk ink tank
Ink insufficient. Press OK and replace ink tank.	03810201-2581	Low on the Y ink tank (as during cleaning)	Replace with a fully replenished Y ink tank
Ink insufficient. Press OK and replace ink tank.	03810202-2582	Low on the M ink tank (as during cleaning)	Replace with a fully replenished M ink tank
Ink insufficient. Press OK and replace ink tank.	03810203-2583	Low on the C ink tank (as during cleaning)	Replace with a fully replenished C ink tank
Ink insufficient. Press OK and replace ink tank.	03810212-2584	Low on the PM ink tank (as during cleaning)	Replace with a fully replenished PM ink tank
Ink insufficient. Press OK and replace ink tank.	03810213-2585	Low on the PC ink tank (as during cleaning)	Replace with a fully replenished PC ink tank
Ink insufficient. Press OK and replace ink tank.	03810206-2586	Low on the MBk ink tank (as during cleaning)	Replace with a fully replenished MBk ink tank
Ink insufficient. Press OK and replace ink tank.	03810205-2588	Low on the GY ink tank (as during cleaning)	Replace with a fully replenished GY ink tank
Ink insufficient. Press OK and replace ink tank.	03810215-2589	Low on the PGY ink tank (as during cleaning)	Replace with a fully replenished PGY ink tank
Ink insufficient. Press OK and replace ink tank.	03810207-258A	Low on the R ink tank (as during cleaning)	Replace with a fully replenished R ink tank
Ink insufficient. Press OK and replace ink tank.	03810209-258B	Low on the B ink tank (as during cleaning)	Replace with a fully replenished B ink tank
Ink insufficient. Press OK and replace ink tank.	03810208-258C	Low on the G ink tank (as during cleaning)	Replace with a fully replenished G ink tank
Ink insufficient. Press OK and replace ink tank.	03810204-2590	Low on the Bk ink tank (during pre- printing checks)	Replace with a fully replenished Bk ink tank
Ink insufficient. Press OK and replace ink tank.	03810201-2591	Low on the Y ink tank (during pre- printing checks)	Replace with a fully replenished Y ink tank
Ink insufficient. Press OK and replace ink tank.	03810202-2592	Low on the M ink tank (during pre- printing checks)	Replace with a fully replenished M ink tank
Ink insufficient. Press OK and replace ink tank.	03810203-2593	Low on the C ink tank (during pre- printing checks)	Replace with a fully replenished C ink tank
Ink insufficient. Press OK and replace ink tank.	03810212-2594	Low on the PM ink tank (during pre- printing checks)	Replace with a fully replenished PM ink tank
Ink insufficient. Press OK and replace ink tank.	03810213-2595	Low on the PC ink tank (during pre- printing checks)	Replace with a fully replenished PC ink tank
Ink insufficient. Press OK and replace ink tank.	03810206-2596	Low on the MBk ink tank (during pre- printing checks)	Replace with a fully replenished MBk ink tank
Ink insufficient. Press OK and replace ink tank.	03810205-2598	Low on the GY ink tank (during pre- printing checks)	Replace with a fully replenished GY ink tank
Ink insufficient. Press OK and replace ink tank.	03810215-2599	Low on the PGY ink tank (during pre- printing checks)	Replace with a fully replenished PGY ink tank
Ink insufficient. Press OK and replace ink tank.	03810207-259A	Low on the R ink tank (during pre- printing checks)	Replace with a fully replenished R ink tank
Ink insufficient. Press OK and replace ink tank.	03810209-259B	Low on the B ink tank (during pre- printing checks)	Replace with a fully replenished B ink tank

Display message	Code*	Condition detected	Action
Ink insufficient. Press OK and replace ink tank.	03810208-259C	Low on the G ink tank (during pre-printing checks)	Replace with a fully replenished G ink tank
Ink tank error. Press OK and replace ink tank.	03830204-2540	Bk ink tank ID error	Replace with a valid Bk ink tank
Ink tank error. Press OK and replace ink tank.	03830201-2541	Y ink tank ID error	Replace with a valid Y ink tank
Ink tank error. Press OK and replace ink tank.	03830202-2542	M ink tank ID error	Replace with a valid M ink tank
Ink tank error. Press OK and replace ink tank.	03830203-2543	C ink tank ID error	Replace with a valid C ink tank
Ink tank error. Press OK and replace ink tank.	03830212-2544	PM ink tank ID error	Replace with a valid PM ink tank
Ink tank error. Press OK and replace ink tank.	03830213-2545	PC ink tank ID error	Replace with a valid PC ink tank
Ink tank error. Press OK and replace ink tank.	03830206-2546	MBk ink tank ID error	Replace with a valid MBk ink tank
Ink tank error. Press OK and replace ink tank.	03830206-2547	MBk2 ink tank ID error	Replace with a valid MBk ink tank
Ink tank error. Press OK and replace ink tank.	03830205-2548	GY ink tank ID error	Replace with a valid GY ink tank
Ink tank error. Press OK and replace ink tank.	03830215-2549	PGY ink tank ID error	Replace with a valid PGY ink tank
Ink tank error. Press OK and replace ink tank.	03830207-254A	R ink tank ID error	Replace with a valid R ink tank
Ink tank error. Press OK and replace ink tank.	03830209-254B	B ink tank ID error	Replace with a valid B ink tank
Ink tank error. Press OK and replace ink tank.	03830208-254C	G ink tank ID error	Replace with a valid G ink tank
No ink tank loaded. Press OK and check ink tank.	03830104-2520	BK ink tank not installed	Install a Bk ink tank
No ink tank loaded. Press OK and check ink tank.	03830101-2521	Y ink tank not installed	Install a Y ink tank
No ink tank loaded. Press OK and check ink tank.	03830102-2522	M ink tank not installed	Install a M ink tank
No ink tank loaded. Press OK and check ink tank.	03830103-2523	C ink tank not installed	Install a C ink tank
No ink tank loaded. Press OK and check ink tank.	03830112-2524	PM ink tank not installed	Install a PM ink tank
No ink tank loaded. Press OK and check ink tank.	03830113-2525	PC ink tank not installed	Install a PC ink tank
No ink tank loaded. Press OK and check ink tank.	03830106-2526	MBK ink tank not installed	Install a MBk ink tank

Display message	Code*	Condition detected	Action
No ink tank loaded. Press OK and check ink tank.	03830106-2527	MBK2 ink tank not installed	Install a MBk ink tank
No ink tank loaded. Press OK and check ink tank.	03830105-2528	GY ink tank not installed	Install a GY ink tank
No ink tank loaded. Press OK and check ink tank.	03830115-2529	PGY ink tank not installed	Install a PGY ink tank
No ink tank loaded. Press OK and check ink tank.	03830107-252A	R ink tank not installed	Install a R ink tank
No ink tank loaded. Press OK and check ink tank.	03830109-252B	B ink tank not installed	Install a B ink tank
No ink tank loaded. Press OK and check ink tank.	03830108-252C	G ink tank not installed	Install a G ink tank
Ink tank:BK error Press OK and replace ink tank.	03830304-2560	Bk ink tank EEPROM error	Renew the Bk ink tank
Ink tank:BK error Press OK and replace ink tank.	03830304-2561	Y ink tank EEPROM error	Renew the Y ink tank
Ink tank:BK error Press OK and replace ink tank.	03830304-2562	M ink tank EEPROM error	Renew the M ink tank
Ink tank:BK error Press OK and replace ink tank.	03830304-2563	C ink tank EEPROM error	Renew the C ink tank
Ink tank:BK error Press OK and replace ink tank.	03830304-2564	PM ink tank EEPROM error	Renew the PM ink tank
Ink tank:BK error Press OK and replace ink tank.	03830304-2565	PC ink tank EEPROM error	Renew the PC ink tank
Ink tank:BK error Press OK and replace ink tank.	03830304-2566	MBk ink tank EEPROM error	Renew the MBk ink tank
Ink tank:BK error Press OK and replace ink tank.	03830304-2567	MBk2 ink tank EEPROM error	Renew the MBk ink tank
Ink tank:BK error Press OK and replace ink tank.	03830304-2568	GY ink tank EEPROM error	Renew the GY ink tank
Ink tank:BK error Press OK and replace ink tank.	03830304-2569	PGY ink tank EEPROM error	Renew the PGY ink tank
Ink tank:BK error Press OK and replace ink tank.	03830304-256A	R ink tank EEPROM error	Renew the R ink tank
Ink tank:BK error Press OK and replace ink tank.	03830304-256B	B ink tank EEPROM error	Renew the B ink tank
Ink tank:BK error Press OK and replace ink tank.	03830304-256C	G ink tank EEPROM error	Renew the G ink tank
Top cover is open. Turn off printer, wait a while, and turn it on again.	03031000-2E0F	Top cover abnormally open	Close the top cover and turn on the printer again.

Display message	Code*	Condition detected	Action
Ink tank cover is open. Turn off printer, wait a while, and turn it on again.	03031000-2E10	Ink tank cover abnormally open	Close the ink tank cover and turn on the printer again.
Maintenance cartridge full. Replace the maintenance cartridge.	03841001-2819	Maintenance cartridge full	Renew the maintenance cartridge.
No Maintenance Cartridge capacity. Replace the maintenance cartridge.	03841001-281B	Not enough space in the maintenance cartridge prior to cleaning	Replace the maintenance cartridge.
No maintenance cartridge. Check the maintenance cartridge.	03841101-2818	Maintenance cartridge not available	Set a maintenance cartridge. Insert the maintenance cartridge fully into position.
Maintenance cartridge problem. Replace the maintenance cartridge.	03841201-2816	Maintenance cartridge EEPROM error	Renew the maintenance cartridge.
Maintenance cartridge problem. Replace the maintenance cartridge.	03841201-2817	Maintenance cartridge ID error	Renew the maintenance cartridge.
Roll printing is selected, but sheets are loaded. Press OK, remove the sheets, and load a roll.	03860002-2E0A	Data with a roll media specification has been received when a sheet tray is loaded.	Reload the cut sheets.
Borderless printing not possible. Check roll width and spacers. Online: Print Load/Eject: Change Paper	03861001-2405	Paper loaded at a position inaccessible for borderless printing	Check to see if a borderless printing spacer is installed. Reload the paper.
Borderless printing not possible. Check paper size setting. Online: Print Load/Eject: Change Paper	03861001-2406	Data unfit for borderless printing	Check the paper size. Change the paper size.
Insufficient paper for job Online: Print Stop: Stop Printing Load/Eject: Change Paper	03862000-2E09	Not enough roll media on remaining roll media quantity detection	Renew the supply of roll media.
Wrong paper size. Check paper size setting on computer. Online: Print Stop: Stop Printing	03063000-2E08	Mismatch between data width and paper width	Verify the paper size setting.
Cannot cut paper. Press Load/Eject and reload the paper.	03870001-2015	Cutting failure	Cut paper manually. Check the cutter.
Mail box full. Delete unwanted data on your computer to resume printing. Press Stop to cancel printing.	031A1002-2905	The job store executed when the free hard disk space left for Personal Boxes in the printer's hard disk is full.	Delete unneeded jobs stored in Personal Boxes.
Mail box full. Cannot save. Delete unwanted data on your computer to resume printing. Press Stop to cancel printing.	031A1002-2906	The store executed when 32 jobs are stored in the Personal Box.	Delete unneeded jobs stored in Personal Boxes.

Display message	Code*	Condition detected	Action
Hard disk error. Press OK to reformat	031A1001-2908	Hard disk format error	Press the [OK] button to start reformatting the hard disk. When formatting is finished, the printer automatically restarts.
File read error. Turn off printer, wait a while, and turn it on again. Invalid files will be deleted.	031A1006-2909	Hard disk file error	Restart the printer. Only the corrupted files will be deleted, and the printer will restart.

8.3.3 Errors

iPF6300 / iPF6350 / iPF6300S

* Codes represent the numbers that are displayed in DISPLAY in service mode.

If the same message is displayed when the printer is turned off, then back on, take action as recommended in the Action column.

T-8-7

Display message	Code*	Condition detected	Action
Problem with Printhead Chk printing results	01800500-1010	The number of the printhead's non-discharge nozzle was over fixed level during the non-discharge detection operation.	Clean the printhead. Replace the printhead.
Problem with Printhead R Chk printing results	01800500-1012	The number of the right printhead's non-discharge nozzle was over fixed level during the non-discharge detection operation.	Clean the printhead. Replace the right printhead.
Problem with Printhead L Chk printing results	01800500-1013	The number of the left printhead's non-discharge nozzle was over fixed level during the non-discharge detection operation.	Clean the printhead. Replace the left printhead.
Move the blue platen switch No.02 to the right.	01861007-1056	The platen shutter switch No.2 has been closing when shutter is the mode of opening.	Check the opening or closing of the platen shutter switch. Check the platen and multi sensor and surrounding parts. Replace the multi sensor.
Move the blue platen switch No.03 to the right.	01861008-1057	The platen shutter switch No.3 has been closing when shutter is the mode of opening.	Check the opening or closing of the platen shutter switch. Check the platen and multi sensor and surrounding parts. Replace the multi sensor.
Move the blue platen switch No.04 to the right.	01861009-1058	The platen shutter switch No.4 has been closing when shutter is the mode of opening.	Check the opening or closing of the platen shutter switch. Check the platen and multi sensor and surrounding parts. Replace the multi sensor.
Move the blue platen switch No.05 to the right.	0186100A-1059	The platen shutter switch No.5 has been closing when shutter is the mode of opening.	Check the opening or closing of the platen shutter switch. Check the platen and multi sensor and surrounding parts. Replace the multi sensor.
Move the blue platen switch No.06 to the right.	0186100B-105A	The platen shutter switch No.6 has been closing when shutter is the mode of opening.	Check the opening or closing of the platen shutter switch. Check the platen and multi sensor and surrounding parts. Replace the multi sensor.
Move the blue platen switch No.07 to the right.	0186100C-105B	The platen shutter switch No.7 has been closing when shutter is the mode of opening.	Check the opening or closing of the platen shutter switch. Check the platen and multi sensor and surrounding parts. Replace the multi sensor.
Move the blue platen switch No.08 to the right.	0186100D-105C	The platen shutter switch No.8 has been closing when shutter is the mode of opening.	Check the opening or closing of the platen shutter switch. Check the platen and multi sensor and surrounding parts. Replace the multi sensor.
Move the blue platen switch No.09 to the right.	0186100E-105D	The platen shutter switch No.9 has been closing when shutter is the mode of opening.	Check the opening or closing of the platen shutter switch. Check the platen and multi sensor and surrounding parts. Replace the multi sensor.
Move the blue platen switch No.10 to the right.	0186100F-105E	The platen shutter switch No.10 has been closing when shutter is the mode of opening.	Check the opening or closing of the platen shutter switch. Check the platen and multi sensor and surrounding parts. Replace the multi sensor.
Move the blue platen switch No.11 to the right.	01861010-105F	The platen shutter switch No.11 has been closing when shutter is the mode of opening.	Check the opening or closing of the platen shutter switch. Check the platen and multi sensor and surrounding parts. Replace the multi sensor.
Move the blue platen switch No.12 to the right.	01861011-1060	The platen shutter switch No.12 has been closing when shutter is the mode of opening.	Check the opening or closing of the platen shutter switch. Check the platen and multi sensor and surrounding parts. Replace the multi sensor.
Move the blue platen switch No.13 to the right.	01861012-1061	The platen shutter switch No.13 has been closing when shutter is the mode of opening.	Check the opening or closing of the platen shutter switch. Check the platen and multi sensor and surrounding parts. Replace the multi sensor.
Move the blue platen switch No.14 to the right.	01861013-1062	The platen shutter switch No.14 has been closing when shutter is the mode of opening.	Check the opening or closing of the platen shutter switch. Check the platen and multi sensor and surrounding parts. Replace the multi sensor.
Paper size not detected. Reload paper.	03010000-200A	Unable to detect the paper width (Paper loaded at an improper position)	Reload the paper

Display message	Code*	Condition detected	Action
Paper size not detected. Lift the release lever and reload the paper.	03010000-200C	Unable to detect the leading end of paper	Check the leading end of paper. Reload the paper.
Leading edge detection error. Lift the release lever and align leading edge with orange line.	03010000-200D	Unable to detect the trailing end of cut sheet	Check the sheet length. Check to see if paper has not jammed.
This paper cannot be used. Check supported paper sizes.	03010000-200E	Undersized paper (cut sheets/roll media)	Replace with larger-sized paper.
This paper cannot be used. Check supported paper sizes.	03010000-200F	Oversized paper (cut sheets/roll media)	Replace with smaller-sized paper.
Paper jam. Manually rewind roll all the way.	03010000-2016	Cut sheet feed failure	Check or replace a cut sheet.
Paper size not detected. Lift the release lever and reload the paper.	03010000-2017	Paper (right) edge detection error	Check the right edge of paper. Check the paper type.
Paper size not detected. Lift the release lever and reload the paper.	03010000-2018	Paper (left) edge detection error	Check the left edge of paper. Check the paper type.
	03010000-201A	Paper (right) edge detection error (cut sheet pick-up)	Set or replace the media.
	03010000-201B	Paper (right) edge detection error (roll media pick-up)	Set or replace the media.
	03010000-201C	Paper (left) edge detection error (cut sheet pick-up)	Set or replace the media.
	03010000-201D	Paper (left) edge detection error (roll media pick-up)	Set or replace the media.
Cannot print as specified. Lift the release lever and replace paper with A4/LTR (vertical) or larger.	03010000-2E1F	Undersized paper loaded for internal printing (A4 or larger)	Replace with A4/Letter or any larger-sized paper.
Cannot print as specified. Lift the release lever and replace paper with A3/Ledger (vertical) or larger.	03010000-2E1F	Undersized paper loaded for internal printing (A3 or larger)	Replace with A3/11"x17" or any larger-sized paper.
Cannot print as specified. Lift the release lever and replace roll with 10 in. wide or larger roll.	03010000-2E1F	Undersized paper loaded for internal printing (roll media)	Replace with roll media at least 10 inches in width.
Cannot feed paper. Remove paper and press Load/Eject.	03010000-2E25	Paper jam while feeding/ejecting/printing	Remove the paper jam and reload the paper.
Cannot feed paper. Lift the release lever and reload paper.	03010000-2E27	Paper jam during feeding/printing/ejection	Reload the paper.
Paper jam. Manually rewind roll all the way and press OK.	03010000-2E3A	Media load failure	Check the pick-up unit and roll media. Check to see if paper has not jammed.
Paper jam. Manually rewind roll all the way and press OK.	03010000-2E3B	Media load failure (lower roll)	Check the pick-up unit and roll media. Check to see if paper has not jammed.
Error in cutter position.	03010000-2E47	Cutter position error	Check the cutter unit and surrounding part.
Hardware error. 03130031-2E29 Turn off printer, wait, then turn on again.	03010000-2F29	Feed motor timeout (Roll media)	Check the roll feed unit. Check roll media. Check to see if paper has not jammed in the printer.
Use another paper. Press Online to clear the error.	03010000-2F33	Unadjustable because of transparent media	Replace with adjustable media.
Paper loaded askew. Lift the release lever.	03016000-2010	Skew	Correct the skew in the paper and reload it.
Ink tank cover is open. Turn off printer, wait a while, and turn it on again.	03031000-2E10	Ink tank cover abnormally open	Close the ink tank cover and turn on the printer again.
Rel lever is in wrong position. Turn off printer, wait, then turn on again.	03031000-2F21	Pinch roller open error	Check the pinch roller unit and surrounding part.
Top cover is open. Turn off printer, wait a while, and turn it on again.	03031000-2F38	Top cover abnormally open	Close the top cover and turn on the printer again.
Paper mismatch. Make sure media type and paper size match for the adjustment print.	03060000-2E20	Cut sheet type or size is not match when printing the printhead registration.	Change the cut sheet.
Sheet printing is selected.	03060100-2E02	Cut sheet is not loaded when printing.	Set the cut sheet.
	03060100-2E05	Cut sheet is not loaded when receiving the printing job.	Set the cut sheet.

Display message	Code*	Condition detected	Action
Roll printing is selected. Press Load/Eject and load a roll.	03060A00-2E00	Data with a roll media specification has been received but no roll media are loaded.	Load roll media.
No Roll Feed Unit. Turn printer off and install roll feed unit.	03060A00-2E0E	Roll media unit not installed	Install the roll media unit.
The roll is empty. Lift the release lever and replace the roll.	03060A00-2E1B	Roll media end	Renew the supply of roll media.
Roll feed unit error. Turn off the printer and check the roll feed unit.	03060A00-2E24	Roll cam sensor error	Check the roll unit.
	03060A00-2E33	Roll media is not loaded when receiving the printing job.	Set the roll media.
Roll printing is selected. Press Load/Eject and load a roll.	03060A00-2E35	Roll media is not loaded for internal printing.	Reload the roll media.
Roll printing is selected.	03060A00-2E37	Roll media is not loaded when printing.	Set the roll media.
Roll feed unit error. Turn off printer and check roll feed unit.	03060B00-2E24	Roll feed unit failure	Replace the roll feed unit.
Wrong paper type.	03061000-2E15	Paper type mismatch	Check the type of paper that can be fed and reload the paper.
This type of paper is not compatible with HP-GL/2. Online: Print Stop: Stop Printing Load/Eject: Change Paper	03061000-2E15	Non-support media of HP-GL/2	Exchange for the compatible paper to HP-GL/2 before reprinting.
PaprWidth Mismatch.	03063000-2E08	Roll media width mismatch	Change the roll media.
Hardware error. 03130000-2E21 Turn off printer, wait, then turn on again.	03130000-2E21	IEEE1394 port error	Check the IEEE1394 board is attached correctly. Replace the IEEE1394 board. Replace the main controller PCB.
Hardware error. 03130031-260E Turn off printer, wait, then turn on again.	03130031-260E	Gap detection error	Check the carriage unit and surrounding parts. Replace the main controller PCB.
Hardware error. 03130031-260F Turn off printer, wait, then turn on again.	03130031-260F	Gap reference surface error	Replace the multi sensor reference.
Hardware error. 03130031-2618 Turn off printer, wait, then turn on again.	03130031-2618	VH voltage error	Check the power supply unit.
Hardware error. 03130031-290A Turn off printer, wait, then turn on again.	03130031-290A	HDD unit detection error	Check the HDD unit is attached correctly. Check the HDD unit and surrounding parts. Replace the HDD unit.
Hardware error. 03130031-2E23 Turn off printer, wait, then turn on again.	03130031-2E23	Cutter unit failure	Check the cutter unit and sensor.
Hardware error. 03130031-2E13 Turn off printer, wait, then turn on again.	03130031-2F13	A/D converter external trigger output stop detection hardware error 1	Replace the new printhead.
Hardware error. 03130031-2E14 Turn off printer, wait, then turn on again.	03130031-2F14	Writing to the ASIC register disabled	Replace the main controller PCB
Hardware error. 03130031-2E16 Turn off printer, wait, then turn on again.	03130031-2F16	Mist fan rotation error	Check the mist fan.
Hardware error. 03130031-2E17 Turn off printer, wait, then turn on again.	03130031-2F17	Platen suction fan lock detection error	Check the platen suction fan.
Hardware error. 03130031-2E1F Turn off printer, wait, then turn on again.	03130031-2F1F	Pump cam sensor error	Check the purge unit.
Hardware error. 03130031-2E20 Turn off printer, wait, then turn on again.	03130031-2F20	Purge motor cam position error	Check the purge unit.
Hardware error. 03130031-2E22 Turn off printer, wait, then turn on again.	03130031-2F22	Pump move timeout	Check the purge unit.

Display message	Code*	Condition detected	Action
Hardware error. 03130031-2E23 Turn off printer, wait, then turn on again.	03130031-2F23	Purge motor error Pump inoperable	Check the purge unit.
Hardware error. 03130031-2E25 Turn off printer, wait, then turn on again.	03130031-2F25	Unable to detect the carriage motor home position	Check the carriage unit. Check the linear encoder for smears.
Hardware error. 03130031-2E26 Turn off printer, wait, then turn on again.	03130031-2F26	Carriage inoperable	Check the carriage unit and surrounding parts.
Hardware error. 03130031-2E27 Turn off printer, wait, then turn on again.	03130031-2F27	Carriage move timeout	Check the carriage unit and surrounding parts.
Hardware error. 03130031-2E2A Turn off printer, wait, then turn on again.	03130031-2F2A	Unable to detect the feed roller home position	Check the feed roller encoder and surrounding part. Check to see if paper has not jammed.
Hardware error. 03130031-2F2B Turn off printer, wait, then turn on again.	03130031-2F2B	LF operation failure	Check to see if paper has not jammed. Check the feed motor and feed roller.
Hardware error. 03130031-2E2E Turn off printer, wait, then turn on again.	03130031-2F2E	Roll travel timeout	Check the roll feed unit.
Hardware error. 03130031-2F32 Turn off printer, wait, then turn on again.	03130031-2F32	Multi sensor error	Check the environment for interferences from outside light. Replace the multi sensor unit.
Calibration There is a problem with the multi-sensor. Cancel calibration.	03130031-2F35	Color calibration disabled	Check the parts counter in service mode. Replace the multi sensor unit.
Calibration There is a problem with the multi-sensor. Cancel calibration.	03130031-2F35	The detection value of the temperature/humidity sensor was the ranges that were adjustment impossibility when performing color calibration.	Check the paper on which a pattern is printed for smears. Check the environment for interferences from outside light. Clean the printhead.
Hardware error. 03130031-2F3A Turn off printer, wait, then turn on again.	03130031-2F3A	Valve motor error	Check the ink supply unit.
Hardware error. 03130031-2F3B Turn off printer, wait, then turn on again.	03130031-2F3B	CS communication error	Remove the ink tanks and then reload them. Replace the ink tank. Check the main controller PCB.
Hardware error. 03130031-2F3C Turn off printer, wait, then turn on again.	03130031-2F3C	LF pressure error	Check the pinch roller and surrounding parts. Replace the pinch roller pressure drive unit.
Hardware error. 03130031-2F3D Turn off printer, wait, then turn on again.	03130031-2F3D	HP maintenance jet pump motor overload error	Check the purge unit.
Hardware error. 03130031-2F3E Turn off printer, wait, then turn on again.	03130031-2F3E	HP maintenance jet pump motor move timeout error	Check the purge unit.
Hardware error. 03130031-2F3F Turn off printer, wait, then turn on again.	03130031-2F3F	HP maintenance jet pump motor error	Check the purge unit.
Hardware error. 03130031-2F46 Turn off printer, wait, then turn on again.	03130031-2F46	Platen shutter failure	Check the platen shutter and shutter HP sensor.
Hardware error. 03130031-2F48 Turn off printer, wait, then turn on again.	03130031-2F48	VH voltage error	Check the power supply unit.
Hardware error. 03130031-2F49 Turn off printer, wait, then turn on again.	03130031-2F49	Left printhead short-circuit error detection (VH leakage)	Check that the left printhead is attached correctly. Check the contact of left printhead and surrounding parts. Replace the left printhead. Replace the carriage unit.
Hardware error. 03130031-2F4A Turn off printer, wait, then turn on again.	03130031-2F4A	Incorrect main controller PCB attachment error	Check the main controller PCB. Replace the correct main controller PCB.

Display message	Code*	Condition detected	Action
Hardware error. 03130031-2F50 Turn off printer, wait, then turn on again.	03130031-2F50	Right printhead short-circuit error detection (VH leakage)	Check that the right printhead is attached correctly. Check the contact of right printhead and surrounding parts. Replace the right printhead. Replace the carriage unit.
Hardware error. 03130031-2F51 Turn off printer, wait, then turn on again.	03130031-2F51	Printhead short-circuit error detection (VH leakage)	Check that the printhead is attached correctly. Check the contact of printhead and surrounding parts. Replace the printhead. Replace the carriage unit.
Hardware error. 03130031-2F52 Turn off printer, wait, then turn on again.	03130031-2F52	Incorrect carriage PCB attachment error	Check the carriage PCB. Replace the correct carriage PCB.
Hardware error. 03130031-4027 Turn off printer, wait, then turn on again.	03130031-4027	Lift travel timeout error	Check the carriage unit and surrounding parts.
Mail box full. Delete unwanted data on your computer to resume printing. Press Stop to cancel printing.	031A1001-2905	The job store executed when the free hard disk space left for Personal Boxes in the printer's hard disk is full.	Delete unneeded jobs stored in Personal Boxes.
Hard disk error. Press OK to reformat	031A1002-2908	Hard disk format error	Press the [OK] button to start reformatting the hard disk. When formatting is finished, the printer automatically restarts.
File read error. Turn off printer, wait a while, and turn it on again. Invalid files will be deleted.	031A1002-2909	Hard disk file error	Restart the printer. Only the corrupted files will be deleted, and the printer will restart.
Mail box full. Cannot save. Delete unwanted data on your computer to resume printing. Press Stop to cancel printing.	031A1006-2906	The store executed when 32 jobs are stored in the Personal Box.	Delete unneeded jobs stored in Personal Boxes.
The paper is too small.	033200D2-2E30	Size clip error	Confirm the print data.
No printhead. Install printhead.	03800100-2800	Printhead not installed	Install the printhead.
No right printhead Install right printhead.	03800101-2800	Right printhead not installed	Install the right printhead.
No left printhead Install left printhead.	03800102-2808	Left printhead not installed	Install the left printhead.
Printhead error. Open top cover and replace the printhead.	03800200-2802	Invalid printhead installed	Replace printhead.
Wrong printhead. Open top cover and replace the printhead.	03800200-2811	Printhead version error	Replace the printhead.
Right printhead error. Open top cover and replace the right printhead.	03800201-2802	Right printhead ID error	Replace the right printhead.
PHeads: wrong pos. Open top cover and check the printhead positions.	03800201-2804	The left printhead was installed to the installation position of right printhead.	Check the installation position of printhead.
Right printhead error. Open top cover and replace the right printhead.	03800201-2812	Right printhead version error	Replace the right printhead.
PHeads: wrong pos. Open top cover and check the printhead positions.	03800202-2807	The right printhead was installed to the installation position of left printhead.	Check the installation position of printhead.
Left printhead error. Open top cover and replace the left printhead.	03800202-280A	Left printhead ID error	Replace the left printhead.
Left printhead error. Open top cover and replace the left printhead.	03800202-2813	Left printhead version error	Replace the left printhead.
Left printhead error.	03800202-282D	Left printhead abnormal temperature detection error (during maintenance jet)	Replace the left printhead.
Left printhead error.	03800202-2830	Left printhead abnormal temperature detection error during maintenance jet (when restarting printer)	Replace the left printhead.
Printhead error. Open top cover and replace the right printhead.	03800300-2801	Printhead DI compensation failure	Replace printhead.
Right printhead error. Open top cover and replace the right printhead.	03800301-2801	Right printhead DI compensation failure	Replace the right printhead.
Left printhead error. Open top cover and replace the left printhead.	03800302-2809	Left printhead DI compensation failure	Replace the left printhead.

Display message	Code*	Condition detected	Action
Printhead error. Open top cover and replace the right printhead.	03800400-2803	Printhead EEPROM error	Replace printhead.
Right printhead error. Open top cover and replace the right printhead.	03800401-2803	Right printhead EEPROM error	Replace the right printhead.
Left printhead error. Open top cover and replace the left printhead.	03800402-280B	Left printhead EEPROM error	Replace the left printhead.
PHead needs cleaning. Press Online to clear error.	03800500-280C	Printhead found to have many non-discharging nozzles during a non-discharging inspection (printing paused)	Clean the printhead. Identify the nozzles in a nozzle check pattern. Replace the printhead.
Execute printhead cleaning. If this message is still displayed, replace the printhead.	03800500-280C	Printhead found to have many non-discharging nozzles during a non-discharging inspection (printing paused)	Clean the printhead. Identify the nozzles in a nozzle check pattern. Replace the printhead.
Execute printhead cleaning. If this message is still displayed, replace the printhead. Printing stopped.	03800500-2827	Printhead found to have many non-discharging nozzles during a non-discharging inspection (printing stopped)	Clean the printhead. Identify the nozzles in a nozzle check pattern. Replace the printhead.
Hardware error. 03800500-2F2F Turn off printer, wait, then turn on again.	03800500-2F2F	The non-discharge of the EVEN or ODD line (640-nozzles) is detected the 320-nozzles or more.	Check the head management sensor and surrounding parts. Check that the printhead is attached correctly. Replace the head management sensor. Replace the printhead.
Hardware error. 03800500-2F30 Turn off printer, wait, then turn on again.	03800500-2F30	Detectable area failure (when adjusting the position of non-discharging nozzle) The gap of detection position of nozzle both ends is big.	Check the ink tube unit and surrounding parts. Check the purge unit and surrounding parts. Check the head management sensor and surrounding parts. Check the flexible cable unit and surrounding parts. Check that the printhead is attached correctly. Replace the main controller PCB. Replace the printhead. Replace the carriage unit.
Hardware error. 03800500-2F31 Turn off printer, wait, then turn on again.	03800500-2F31	Non-discharge detection optical axis error	Check the head management sensor. Replace the head management sensor. Replace the printhead.
Hardware error. 03800500-2F40 Turn off printer, wait, then turn on again.	03800500-2F40	The non-discharge of all colors and chips (A/B, EVEN/ODD) and nozzles is detected.	Check the ink tube unit and surrounding parts. Check the purge unit and surrounding parts. Check the head management sensor and surrounding parts. Check the flexible cable unit and surrounding parts. Check that the printhead is attached correctly. Replace the head management sensor. Replace the main controller PCB. Replace the printhead. Replace the carriage unit.
Hardware error. 03800500-2F41 Turn off printer, wait, then turn on again.	03800500-2F41	About all chips and nozzles of one color, the non-discharge is detected.	Check the ink tube unit and surrounding parts. Check the purge unit and surrounding parts. Check the head management sensor and surrounding parts. Check the flexible cable unit and surrounding parts. Check that the printhead is attached correctly. Replace the main controller PCB. Replace the printhead. Replace the carriage unit.
Hardware error. 03800500-2F42 Turn off printer, wait, then turn on again.	03800500-2F42	About single line (A or B) and all nozzles (1280-nozzles) of one color, the non-discharge is detected.	Check the head management sensor and surrounding parts. Check the flexible cable unit and surrounding parts. Check that the printhead is attached correctly. Replace the main controller PCB. Replace the printhead. Replace the carriage unit.
Hardware error. 03800500-2F43 Turn off printer, wait, then turn on again.	03800500-2F43	About single chip (A or B, EVEN or ODD) and all nozzles (640-nozzles) of one color, the non-discharge is detected.	Check the head management sensor and surrounding parts. Check the flexible cable unit and surrounding parts. Check that the printhead is attached correctly. Replace the main controller PCB. Replace the printhead. Replace the carriage unit.
Hardware error. 03800500-2F44 Turn off printer, wait, then turn on again.	03800500-2F44	The non-discharge of the EVEN or ODD line (640-nozzles) is detected.	Check the head management sensor and surrounding parts. Check that the printhead is attached correctly. Replace the main controller PCB. Replace the printhead. Replace the carriage unit.
Hardware error. 03800500-2F47 Turn off printer, wait, then turn on again.	03800500-2F47	Head management sensor failure The APCCHK signal of head management sensor is out of range.	Check the head management sensor and surrounding parts. Replace the head management sensor. Replace the main controller PCB.
Clean right P Head	03800501-280D	The number of right printhead nozzle was over level that can back up non-discharging nozzle. (printing paused)	Clean the printhead. Change the setting of nozzle check warning. Replace the right printhead.

Display message	Code*	Condition detected	Action
Clean right P Head	03800501-2828	The number of right printhead nozzle was over level that can back up non-discharging nozzle. (printing stopped)	Clean the printhead. Change the setting of nozzle check warning. Replace the right printhead.
Clean left P Head	03800502-280E	The number of left printhead nozzle was over level that can back up non-discharging nozzle. (printing paused)	Clean the printhead. Change the setting of nozzle check warning. Replace the left printhead.
Clean left P Head	03800502-2829	The number of left printhead nozzle was over level that can back up non-discharging nozzle. (printing stopped)	Clean the printhead. Change the setting of nozzle check warning. Replace the left printhead.
Ink tank is empty. Press OK and replace ink tank.	03810101-2501	Y ink tank empty	Renew the Y ink tank.
	03810101-2511	Unidentified status of Y ink tank (refill ink tank detection)	Invalidate the ink remaining detection function or replace the ink tank.
Cannot detect ink level correctly. Close tank cover.	03810101-259F	Subtank empty of Y ink tank (ink tank cover opening and refill ink tank usage)	After the ink tank cover, replace the ink tank.
Ink tank is empty. Press OK and replace ink tank.	03810102-2502	M ink tank empty	Renew the M ink tank.
	03810102-2512	Unidentified status of M ink tank (refill ink tank detection)	Invalidate the ink remaining detection function or replace the ink tank.
Cannot detect ink level correctly. Close tank cover.	03810102-259E	Subtank empty of M ink tank (ink tank cover opening and refill ink tank usage)	After the ink tank cover, replace the ink tank.
Ink tank is empty. Press OK and replace ink tank.	03810103-2503	C ink tank empty	Renew the C ink tank.
	03810103-2513	Unidentified status of C ink tank (refill ink tank detection)	Invalidate the ink remaining detection function or replace the ink tank.
Cannot detect ink level correctly. Close tank cover.	03810103-259D	Subtank empty of C ink tank (ink tank cover opening and refill ink tank usage)	After the ink tank cover, replace the ink tank.
Ink tank is empty. Press OK and replace ink tank.	03810104-2500	BK ink tank empty	Renew the BK ink tank.
	03810104-2510	Unidentified status of BK ink tank (refill ink tank detection)	Invalidate the ink remaining detection function or replace the ink tank.
Cannot detect ink level correctly. Close tank cover.	03810104-259C	Subtank empty of BK ink tank (ink tank cover opening and refill ink tank usage)	After the ink tank cover, replace the ink tank.
Ink tank is empty. Press OK and replace ink tank.	03810105-2508	GY ink tank empty	Renew the GY ink tank.
	03810105-2518	Unidentified status of GY ink tank (refill ink tank detection)	Invalidate the ink remaining detection function or replace the ink tank.
Ink tank is empty. Press OK and replace ink tank.	03810106-2506	MBK ink tank empty	Renew the MBK ink tank.
Ink tank is empty. Press OK and replace ink tank.	03810106-2507	MBK2 ink tank empty	Renew the MBK ink tank.
	03810106-2516	Unidentified status of MBK ink tank (refill ink tank detection)	Invalidate the ink remaining detection function or replace the ink tank.
	03810106-2517	Unidentified status of MBK2 ink tank (refill ink tank detection)	Invalidate the ink remaining detection function or replace the ink tank.
Cannot detect ink level correctly. Close tank cover.	03810106-25A2	Subtank empty of MBK ink tank (ink tank cover opening and refill ink tank usage)	After the ink tank cover, replace the ink tank.
Cannot detect ink level correctly. Close tank cover.	03810106-25A3	Subtank empty of MBK2 ink tank (ink tank cover opening and refill ink tank usage)	After the ink tank cover, replace the ink tank.
Ink tank is empty. Press OK and replace ink tank.	03810107-250A	R ink tank empty	Renew the R ink tank.
	03810107-251A	Unidentified status of R ink tank (refill ink tank detection)	Invalidate the ink remaining detection function or replace the ink tank.
Ink tank is empty. Press OK and replace ink tank.	03810108-250C	G ink tank empty	Renew the G ink tank.
	03810108-251C	Unidentified status of G ink tank (refill ink tank detection)	Invalidate the ink remaining detection function or replace the ink tank.
Ink tank is empty. Press OK and replace ink tank.	03810109-250B	B ink tank empty	Renew the B ink tank.
	03810109-251B	Unidentified status of B ink tank (refill ink tank detection)	Invalidate the ink remaining detection function or replace the ink tank.
Ink tank is empty. Press OK and replace ink tank.	03810112-2504	PM ink tank empty	Renew the PM ink tank.

Display message	Code*	Condition detected	Action
	03810112-2514	Unidentified status of PM ink tank (refill ink tank detection)	Invalidate the ink remaining detection function or replace the ink tank.
Ink tank is empty. Press OK and replace ink tank.	03810113-2505	PC ink tank empty	Renew the PC ink tank.
	03810113-2515	Unidentified status of PC ink tank (refill ink tank detection)	Invalidate the ink remaining detection function or replace the ink tank.
Ink tank is empty. Press OK and replace ink tank.	03810115-2509	PGY ink tank empty	Renew the PGY ink tank.
	03810115-2519	Unidentified status of PGY ink tank (refill ink tank detection)	Invalidate the ink remaining detection function or replace the ink tank.
Ink insufficient. Press OK and replace ink tank.	03810201-2581	Low on the Y ink tank (as during cleaning)	Replace with a fully replenished Y ink tank.
Ink insufficient. Press OK and replace ink tank.	03810201-2591	Low on the Y ink tank (during pre-printing checks)	Replace with a fully replenished Y ink tank.
Ink insufficient. Press OK and replace ink tank.	03810202-2582	Low on the M ink tank (as during cleaning)	Replace with a fully replenished M ink tank.
Ink insufficient. Press OK and replace ink tank.	03810202-2592	Low on the M ink tank (during pre-printing checks)	Replace with a fully replenished M ink tank.
Ink insufficient. Press OK and replace ink tank.	03810203-2583	Low on the C ink tank (as during cleaning)	Replace with a fully replenished C ink tank.
Ink insufficient. Press OK and replace ink tank.	03810203-2593	Low on the C ink tank (during pre-printing checks)	Replace with a fully replenished C ink tank.
Ink insufficient. Press OK and replace ink tank.	03810204-2580	Low on the BK ink tank (as during cleaning)	Replace with a fully replenished BK ink tank.
Ink insufficient. Press OK and replace ink tank.	03810204-2590	Low on the BK ink tank (during pre-printing checks)	Replace with a fully replenished BK ink tank.
Ink insufficient. Press OK and replace ink tank.	03810205-2588	Low on the GY ink tank (as during cleaning)	Replace with a fully replenished GY ink tank.
Ink insufficient. Press OK and replace ink tank.	03810205-2588	Low on the G ink tank (as during cleaning)	Replace with a fully replenished G ink tank.
Ink insufficient. Press OK and replace ink tank.	03810205-2598	Low on the GY ink tank (during pre-printing checks)	Replace with a fully replenished GY ink tank.
Ink insufficient. Press OK and replace ink tank.	03810206-2586	Low on the MBK ink tank (as during cleaning)	Replace with a fully replenished MBK ink tank.
Ink insufficient. Press OK and replace ink tank.	03810206-2587	Low on the MBK2 ink tank (as during cleaning)	Replace with a fully replenished MBK ink tank.
Ink insufficient. Press OK and replace ink tank.	03810206-2596	Low on the MBK ink tank (during pre-printing checks)	Replace with a fully replenished MBK ink tank.
Ink insufficient. Press OK and replace ink tank.	03810206-2597	Low on the MBK2 ink tank (during pre-printing checks)	Replace with a fully replenished MBK ink tank.
Ink insufficient. Press OK and replace ink tank.	03810207-258A	Low on the R ink tank (as during cleaning)	Replace with a fully replenished R ink tank.
Ink insufficient. Press OK and replace ink tank.	03810207-259A	Low on the R ink tank (during pre-printing checks)	Replace with a fully replenished R ink tank.
Ink insufficient. Press OK and replace ink tank.	03810208-259C	Low on the G ink tank (during pre-printing checks)	Replace with a fully replenished G ink tank.
Ink insufficient. Press OK and replace ink tank.	03810209-258B	Low on the B ink tank (as during cleaning)	Replace with a fully replenished B ink tank.
Ink insufficient. Press OK and replace ink tank.	03810209-259B	Low on the B ink tank (during pre-printing checks)	Replace with a fully replenished B ink tank.
Ink insufficient. Press OK and replace ink tank.	03810212-2584	Low on the PM ink tank (as during cleaning)	Replace with a fully replenished PM ink tank.
Ink insufficient. Press OK and replace ink tank.	03810212-2594	Low on the PM ink tank (during pre-printing checks)	Replace with a fully replenished PM ink tank.

Display message	Code*	Condition detected	Action
Ink insufficient. Press OK and replace ink tank.	03810213-2585	Low on the PC ink tank (as during cleaning)	Replace with a fully replenished PC ink tank.
Ink insufficient. Press OK and replace ink tank.	03810213-2595	Low on the PC ink tank (during pre-printing checks)	Replace with a fully replenished PC ink tank.
Ink insufficient. Press OK and replace ink tank.	03810215-2589	Low on the PGY ink tank (as during cleaning)	Replace with a fully replenished PGY ink tank.
Ink insufficient. Press OK and replace ink tank.	03810215-2599	Low on the PGY ink tank (during pre-printing checks)	Replace with a fully replenished PGY ink tank.
No ink tank loaded. Press OK and check ink tank.	03830101-2521	Y ink tank not installed	Install a Y ink tank.
	03830101-25AC	Y ink tank detachment (when using the refill ink tank)	Install the detached ink tank.
No ink tank loaded. Press OK and check ink tank.	03830102-2522	M ink tank not installed	Install a M ink tank.
	03830102-25AB	M ink tank detachment (when using the refill ink tank)	Install the detached ink tank.
No ink tank loaded. Press OK and check ink tank.	03830103-2523	C ink tank not installed	Install a C ink tank.
	03830103-25AA	C ink tank detachment (when using the refill ink tank)	Install the detached ink tank.
No ink tank loaded. Press OK and check ink tank.	03830104-2520	BK ink tank not installed	Install a BK ink tank.
	03830104-25A9	BK ink tank detachment (when using the refill ink tank)	Install the detached ink tank.
No ink tank loaded. Press OK and check ink tank.	03830105-2528	GY ink tank not installed	Install a GY ink tank.
No ink tank loaded. Press OK and check ink tank.	03830106-2526	MBK ink tank not installed	Install a MBK ink tank.
No ink tank loaded. Press OK and check ink tank.	03830106-2527	MBK2 ink tank not installed	Install a MBK ink tank.
	03830106-25B0	MBK ink tank detachment (when using the refill ink tank)	Install the detached ink tank.
	03830106-25B1	MBK2 ink tank detachment (when using the refill ink tank)	Install the detached ink tank.
No ink tank loaded. Press OK and check ink tank.	03830107-252A	R ink tank not installed	Install a R ink tank.
No ink tank loaded. Press OK and check ink tank.	03830108-252C	G ink tank not installed	Install a G ink tank.
No ink tank loaded. Press OK and check ink tank.	03830109-252B	B ink tank not installed	Install a B ink tank.
No ink tank loaded. Press OK and check ink tank.	03830112-2524	PM ink tank not installed	Install a PM ink tank.
No ink tank loaded. Press OK and check ink tank.	03830113-2525	PC ink tank not installed	Install a PC ink tank.
No ink tank loaded. Press OK and check ink tank.	03830115-2529	PGY ink tank not installed	Install a PGY ink tank.
Ink tank error. Press OK and replace ink tank.	03830201-2541	Y ink tank ID error	Replace with a valid Y ink tank.
Ink tank error. Press OK and replace ink tank.	03830202-2542	M ink tank ID error	Replace with a valid M ink tank.
Ink tank error. Press OK and replace ink tank.	03830203-2543	C ink tank ID error	Replace with a valid C ink tank.
Ink tank error. Press OK and replace ink tank.	03830204-2540	BK ink tank ID error	Replace with a valid BK ink tank.
Ink tank error. Press OK and replace ink tank.	03830205-2548	GY ink tank ID error	Replace with a valid GY ink tank.
Ink tank error. Press OK and replace ink tank.	03830206-2546	MBK ink tank ID error	Replace with a valid MBK ink tank.

Display message	Code*	Condition detected	Action
Ink tank error. Press OK and replace ink tank.	03830206-2547	MBK2 ink tank ID error	Replace with a valid MBK ink tank.
Ink tank error. Press OK and replace ink tank.	03830207-254A	R ink tank ID error	Replace with a valid R ink tank.
Ink tank error. Press OK and replace ink tank.	03830208-254C	G ink tank ID error	Replace with a valid G ink tank.
Ink tank error. Press OK and replace ink tank.	03830209-254B	B ink tank ID error	Replace with a valid B ink tank.
Ink tank error. Press OK and replace ink tank.	03830212-2544	PM ink tank ID error	Replace with a valid PM ink tank.
Ink tank error. Press OK and replace ink tank.	03830213-2545	PC ink tank ID error	Replace with a valid PC ink tank.
Ink tank error. Press OK and replace ink tank.	03830215-2549	PGY ink tank ID error	Replace with a valid PGY ink tank.
Maintenance cartridge full. Replace the maintenance cartridge.	03841001-2819	Maintenance cartridge full	Renew the maintenance cartridge.
No Maintenance Cartridge capacity. Replace the maintenance cartridge.	03841001-281B	Not enough space in the maintenance cartridge prior to cleaning	Replace the maintenance cartridge.
No maintenance cartridge. Check the maintenance cartridge.	03841101-2818	Maintenance cartridge not installed	Install the maintenance cartridge.
Maintenance cartridge problem. Replace the maintenance cartridge.	03841201-2816	Maintenance cartridge EEPROM error	Renew the maintenance cartridge.
Maintenance cartridge problem. Replace the maintenance cartridge.	03841201-2817	Maintenance cartridge ID error	Renew the maintenance cartridge.
Manual printing is selected, but a roll is loaded. Press Load/Eject and remove the roll.	03860001-2E0C	Data with a cut sheet specification has been received when roll media are loaded.	Load cut sheets at the paper tray port.
Sheet printing is selected. Press Load/Eject and load sheets.	03860002-2E02	Data with a cut sheet specification has been received but no cut sheets are loaded.	Load cut sheets at the paper tray port.
Roll printing is selected, but sheets are loaded. Press OK, remove the sheets, and load a roll.	03860002-2E0A	Data with a roll media specification has been received when a cut sheet tray is loaded.	Replace with roll media.
This type of media is not compatible with HP-GL/2.	03860006-2825	Paper type mismatch at HP-GL/2 printing	Exchange for the compatible paper to HP-GL/2 before reprinting.
Borderless printing not possible. Check roll position. Online: Print Load/Eject: Change Paper	03861001-2405	Paper loaded at a position inaccessible for borderless printing	Check to see if a borderless printing spacer is installed. Reload the paper.
Borderless printing not possible. Check paper size setting.	03861001-2406	Data unfit for borderless printing	Check the data, and then print again.
Borderless printing not possible. Paper stretched or shrank. Confirm usage cond. of the paper.	03861001-2407	Borderless printing disabled (engine detection)	Reload the paper.
Borderless printing not possible. Check supported paper.	03861001-2408	Borderless printing disabled (unsupported size)	Check the media size. Change the media size.
Insufficient paper for job. Online: Print Stop: Stop Printing Load/Eject: Change Paper	03862000-2E09	Not enough roll media on remaining roll media quantity detection	Renew the supply of roll media.
Insufficient paper for job.	03862001-2E31	Not enough roll media	Renew the supply of roll media.
Insufficient paper for job.	03862002-2E32	Not enough roll media (lower roll)	Renew the supply of roll media.
Cannot adjust printhead. Press Online to clear the error and readjust printhead.	03863000-2820	Printhead registration unadjustable	Check the paper on which a pattern is printed for smears. Check the environment for interferences from outside light. Clean the printhead.

Display message	Code*	Condition detected	Action
Cannot adjust printhead. Press Online to clear the error and readjust printhead.	03863000-2821	LF unadjustable	Check the paper on which a pattern is printed for smears. Check the environment for interferences from outside light. Clean the printhead.
Cannot adjust eccentric. Press Online to clear the error.	03863000-2822	Eccentricity correction disabled	Check to see if paper has not jammed.
Cannot adjust optic axis. Press Online to clear the error.	03863000-2824	Optical axis error	Check the multi sensor. Check the head management sensor.
	03863000-2826	Eccentricity correction error	Check to see if paper has not jammed.
	03863000-282A	Carriage motor rotation adjustment error	Check the carriage unit and surrounding parts. Replace the carriage motor.
	03863000-282B	Carriage motor rotation adjustment error (when detecting the vibration)	Check the carriage unit and surrounding parts. Replace the carriage motor.
CRNG XXX XXX XXX XXX	03863000-2831	Printhead registration unadjustable (when performing CR REG)	Check the paper on which a pattern is printed for smears. Check the environment for interferences from outside light. Clean the printhead.
Cannot calibrate. Press OK and try calibration again.	03863000-2F34	Color calibration adjustment failure error	Check the environment for interferences from outside light. Replace the multi sensor unit.
Error E02827	03863000-4034	Sensor calibration error	Check the paper on which a pattern is printed for smears. Check the environment for interferences from outside light. Clean the printhead.
PaprWidth Mismatch.	03864001-2E45	Roll media width mismatch (when pressing the Load button)	Change the roll media.
Wrong paper type.	03864002-2E42	Paper type mismatch	Check the type of paper that can be fed and reload the paper.
Borderless printing not possible. Check roll position.	03864004-2409	Paper loaded at a position inaccessible for borderless printing	Check to see if a borderless printing spacer is installed. Reload the paper.
Borderless printing not possible. Check supported paper.	03864004-240A	Borderless printing disabled (unsupported size, when pressing the Load button)	Check the media size. Change the media size.
Cannot cut paper. Lift the release lever and reload the paper.	03870001-2015	Cutting failure	Cut paper manually. Check the cutter.
Cannot cut paper. Lift the release lever and reload the paper.	03870001-2019	Cut failure (during jam occur)	Check the cutter unit and surrounding parts. Replace the cutter.
Media Take-up error. Check the paper. Press Online to clear error.	03890000-2920	Media take-up unit cannot take up the media	Check to see if paper has not jammed.
Rewinding error. Check for jam at indicated position. Press Online to clear error.	03890000-2921	Media take-up take up the media continuously	Check the media take-up paper detection sensor and surrounding part. Replace the media take-up paper detection sensor.
Unknown file. Check file format. Turn off printer, wait a while, then turn it on again.	03900001-4042	MIT data transfer failure	Verify the validity of MID data before transferring it.
Unknown file. Check file format. Turn off printer, wait a while, then turn it on again.	03900001-4049	ROM data for another model has been transferred.	Transmit valid ROM data.

8.4 Service Call Table

8.4.1 Service Call Errors

iPF6100

*Codes correspond to the numbers shown on the DISPLAY in the service mode.

T-8-8

Code*	Description	Action
E141-4046	Number of recovery rotations reaching 50,000 or more	Replace the purge kit, and then clear the parts counter in the service mode.
E144-4047	Ink supply count error	Replace the ink supply unit, and then clear the parts counter in the service mode.
E146-4001	Borderless/flow idle ejection/mist recovery count error	Replace the platen duct or mist fan or mist filter or suction fan, and then clear the parts counter in the service mode.
E161-403E	Abnormal temperature rise in printhead R	Replace the printhead R.
E161-403F	Abnormal temperature rise in printhead L	Replace the printhead L.
E194-404A	Non-discharging nozzle count error	Replace the head management sensor unit, and then clear the parts counter in the service mode.
E196-4034	Multi sensor unit version error	Replace the multi sensor unit.
E196-4040	Checksum error	Replace the main controller PCB.
E196-4041	Flash memory erase error	Replace the main controller PCB.
E196-4042	Flash memory write error	Replace the main controller PCB.
E196-4045	EEPROM write error	Replace the main controller PCB.
E196-404C	Serial number mismatch between boards	Execute PCB replacement mode or replace the main controller PCB.
E196-404D	Machine ID mismatch between boards	Replace the main controller PCB.
E196-404E	EEPROM read error	Replace the main controller PCB.
E198-401C	RTC error	Replace the lithium battery or replace the main controller PCB.
E198-401D	RTC low battery error	Replace the lithium battery or replace the main controller PCB.
E198-401E	RTC clock stop	Replace the lithium battery or replace the main controller PCB.
E199-404B	Temperature/humidity sensor board connector out of position	Check the temperature/humidity sensor board connector or replace the board.

8.4.2 Service Call Errors

iPF6200 / iPF6000S

*Codes correspond to the numbers shown on the DISPLAY in the service mode.

T-8-9

Code*	Description	Action
E141-4046	Number of recovery rotations reaching 50,000 or more	Replace the purge kit, and then clear the parts counter in the service mode.
E144-4047	Ink supply count error	Replace the ink supply unit, and then clear the parts counter in the service mode.
E146-4001	Borderless/flow idle ejection/mist recovery count error	Replace the platen duct or mist fan or mist filter or suction fan, and then clear the parts counter in the service mode.
E161-403E	Abnormal temperature rise in printhead R	Replace the printhead R.
E161-403F	Abnormal temperature rise in printhead L	Replace the printhead L.
E194-404A	Non-discharging nozzle count error	Replace the head management sensor unit, and then clear the parts counter in the service mode.
E196-4034	Multi sensor unit version error	Replace the multi sensor unit.

Code*	Description	Action
E196-4040	Checksum error	Replace the main controller PCB.
E196-4041	Flash memory erase error	Replace the main controller PCB.
E196-4042	Flash memory write error	Replace the main controller PCB.
E196-4045	EEPROM write error	Replace the main controller PCB.
E196-404C	Serial number mismatch between boards	Execute PCB replacement mode or replace the main controller PCB.
E196-404D	Machine ID mismatch between boards	Replace the main controller PCB.
E196-404E	EEPROM read error	Replace the main controller PCB.
E198-401C	RTC error	Replace the lithium battery or replace the main controller PCB.
E198-401D	RTC low battery error	Replace the lithium battery or replace the main controller PCB.
E198-401E	RTC clock stop	Replace the lithium battery or replace the main controller PCB.
E199-404B	Temperature/humidity sensor board connector out of position	Check the temperature/humidity sensor board connector or replace the board.
E602-401A	HDD failure	Replace the HDD unit.
E602-401B	HDD connection error	Check the HDD connector/Replace the HDD unit.

8.4.3 Service Call Errors

iPF6300 / iPF6350 / iPF6300S

*Codes correspond to the numbers shown on the DISPLAY in the service mode.

T-8-10

Code	Description	Action
E141-4046	Number of recovery rotations reaching 50,000 or more	Replace the purge unit, and then clear the parts counter in the service mode.
E144-4047	Number of carriage scan operation is full	Replace the tube unit, and then clear the parts counter in the service mode.
E144-4048	Printhead ink filling failure	Replace the printhead.
E146-4001	Waste ink recovery count error	Replace the platen duct or mist fan or mist filter or suction fan, and then clear the parts counter in the service mode. (Confirm the parts reached to the exchange value by the service mode or PRINT INF.)
E161-403E	Abnormal temperature rise in left printhead	Replace the left printhead.
E161-403F	Abnormal temperature rise in right printhead	Replace the right printhead.
E194-404A	Non-discharging nozzle count error	Replace the head management sensor unit, and then clear the parts counter in the service mode.
E196-4040	Checksum error (when execute the firmware update)	Execute firmware update or replace the main controller PCB.
E196-4041	Flash memory erase error (when execute the firmware update)	Execute firmware update or replace the main controller PCB.
E196-4042	Flash memory write error (when execute the firmware update)	Execute firmware update or replace the main controller PCB.
E196-4043	Memory error (when execute the firmware update)	Execute firmware update or replace the main controller PCB.
E196-4044	Firmware size error (when execute the firmware update)	Execute firmware update or replace the main controller PCB.
E196-4045	EEPROM read/write error (controller part)	Replace the main controller PCB.
E196-4049	Firmware data error (when execute the firmware update)	Execute firmware update or replace the main controller PCB.
E196-404C	Serial number mismatch between main controller PCB and maintenance cartridge ROM PCB.	Execute PCB replacement mode or replace the main controller PCB.
E196-404D	Machine ID mismatch between main controller PCB and maintenance cartridge ROM PCB.	Execute PCB replacement mode or replace the main controller PCB.
E196-404E	EEPROM read/write error (engine part)	Replace the main controller PCB.
E198-401C	RTC error	Replace the lithium battery or replace the main controller PCB.
E198-401D	RTC low battery error	Replace the lithium battery or replace the main controller PCB.
E198-401E	RTC clock stop	Replace the lithium battery or replace the main controller PCB.
E199-404B	Temperature/humidity sensor connector out of position	Check the temperature/humidity sensor connector or replace the sensor.
E602-401A	HDD read/write error (HDD failure)	Replace the HDD unit.
E602-401B	HDD connection error	Check the HDD connector or replace the HDD.
E602-405A	HDD size error	Replace the HDD unit.

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