

PIXMA iP6000D

SERVICE MANUAL

Canon

Scope

This manual has been issued by Canon Inc., to provide the service technicians of this product with the information necessary for qualified persons to learn technical theory, installation, maintenance, and repair of products. The manual covers information applicable in all regions where the product is sold. For this reason, it may contain information that is not applicable to your region.

Revision

This manual could include technical inaccuracies or typographical errors due to improvements or changes made to the product. When changes are made to the contents of the manual, Canon will release technical information when necessary. When substantial changes are made to the contents of the manual, Canon will issue a revised edition.

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I. MANUAL OUTLINE

This manual consists of the following three parts to provide information necessary to service the PIXMA iP6000D:

Part 1: Maintenance

Information on maintenance and repair of the PIXMA iP6000D

Part 2: Technical Reference

New technology, technical information and FAQ's (Frequently Asked Questions), etc. of the PIXMA iP6000D

Part 3: Appendix

Block diagrams and pin layouts of the PIXMA iP6000D

Reference:

This manual does not provide sufficient information for disassembly and reassembly procedures. Refer to the illustrations in the separate Parts Catalog.



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Part 1

MAINTENANCE



1. MAINTENANCE

1-1. Adjustment, Periodic Maintenance, Periodic Replacement Parts, and Replacement Consumables by Service Engineer

(1) Adjustment

Adjustment	Timing	Purpose	Tool	Approx. time
EEPROM initialization (EEPROM settings)	At logic board ass'y replacement	To initialize settings other than the following: - USB serial number - Destination setting - Waste ink counter - CD-R correction value	None.	1 min.
Destination settings (EEPROM settings)	At logic board ass'y replacement	To set the destination.	None.	1 min.
LCD viewer language settings	At logic board ass'y replacement	To set the language to be displayed on the LCD viewer.	None.	1 min.
Waste ink counter resetting (EEPROM settings)	- At bottom case unit replacement - At ink absorber (QC1-4221 / 4222 / 4223 / 4224 / 4263 / 4264 / 4864 / 4257) replacement	To reset the waste ink counter.	None.	1 min.
CD-R sensor / automatic print head alignment sensor correction (EEPROM settings)	- At logic board ass'y replacement - At carriage unit replacement	To correct the CD-R and automatic print head alignment sensor.	None. (Correction performed through service test print)	2 min.
Print head alignment	- At print head replacement - At logic board ass'y replacement - At carriage unit replacement	To ensure accurate dot placement.	- None. (operation panel) - Computer (settings via the printer driver)	2 min.
Paper feed motor position adjustment*1	At paper feed motor unit replacement	To adjust the belt tension. (Position the paper feed motor so that the belt is stretched tight.)	None.	2 min.
Grease application	- At carriage unit replacement - At chassis' upper gear replacement - At shaft lift (QC1-4331) replacement	- To maintain sliding properties of the carriage, carriage shaft, and shaft lift. - To protect the chassis' upper gear.	- FLOIL KG-107A (QY9-0057) - MOLYKOTE HP300 (QY9-0035)	1 min.

Note: DO NOT loosen the red screws on both sides of the main chassis, securing the carriage shaft positioning.

*1: Red screws of paper feed motor

The red screws securing the paper feed motor may be loosened only at replacement of the paper feed motor unit.

(2) Periodic maintenance

No periodic maintenance is necessary.

(3) Periodic replacement parts

There are no parts in this printer that require periodic replacement by a service engineer.

(4) Replacement consumables

There are no consumables that require replacement by a service engineer.

1-2. Customer Maintenance

Adjustment	Timing	Purpose	Tool	Approx. time
Print head alignment	At print head replacement.	To ensure accurate dot placement.	- Operation panel - Computer (automatic settings via the printer driver)	3 min.
Print head cleaning	When print quality is not satisfying.	To improve nozzle conditions.	- Operation panel - Computer (settings via the printer driver)	1 min.
Print head deep cleaning	When print quality is not satisfying, and not improved by print head cleaning.	To improve nozzle conditions.	Computer (settings via the printer driver)	2 min.
Ink tank replacement	When an ink tank becomes empty. (No ink error)	-----	-----	2 min.
Paper feed roller cleaning	When paper does not feed properly.	To clean the paper feed rollers.	Operation panel	2 min.
CD-R print position adjustment	At CD-R printing, when necessary	To correct CD-R print position.	Computer (application software)	5 min.
Bottom plate cleaning	When the back side of the paper is smeared	To clean the platen ribs.	Computer (application software)	1 min.
LCD viewer contrast adjustment	When adjusting the contrast	To adjust the contrast	Operation panel	1 min.

1-3. Product Life

(1) Printer

Specified print volume (I) or the years of use (II), whichever comes first.

(I) Print volume

		PIXMA iP6000D
		5,000 pages
Black	1,500 character pattern	1,500 pages
Color	A4, 7.5% duty per color pattern	1,300 pages
	A4, 30 % duty per color pattern	400 pages
	4 x 6, 30 % duty per color pattern	1,000 pages
	Postcard, 30 % duty per color pattern	800 pages

(II) Years of use

5 years of use

(2) Print head

Print volume: No. of pages printed: 5,000 pages (When printing with print mode above)

(3) Ink tank (target value)

BCI-6BK: 520 pages (1,500 character pattern, plain paper / standard mode)

540 pages (ISO JIS-SCID No. 5 / plain paper / standard mode)

BCI-6C: 780 pages (ISO JIS-SCID No. 5 / plain paper / standard mode)

BCI-6M: 580 pages (ISO JIS-SCID No. 5 / plain paper / standard mode)

BCI-6Y: 360 pages (ISO JIS-SCID No. 5 / plain paper / standard mode)

BCI-6PC: 410 pages (ISO JIS-SCID No. 5 / plain paper / standard mode)

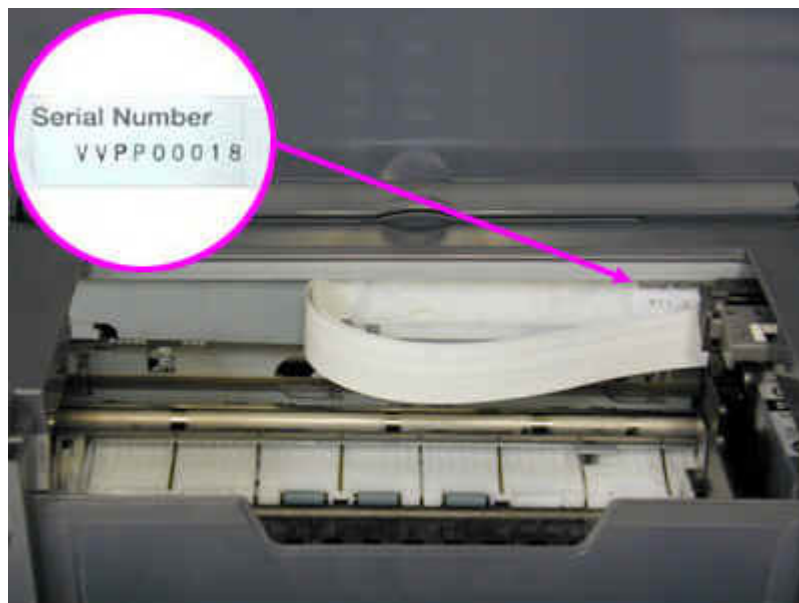
BCI-6PM: 260 pages (ISO JIS-SCID No. 5 / plain paper / standard mode)

1-4. Special Tools

Name	Tool No.	Application	Remarks
MOLYKOTE HP300	QY9-0035-000	To be applied to the chassis' upper gear, and to the sliding portion of the shaft lift.	In common with other models.
FLOIL KG-107A	QY9-0057-000	To be applied to the sliding portion of the carriage, and the carriage shaft.	In common with other models.

1-5. Serial Number Location

On the carriage flexible cable holder (visible when the access cover is open).



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2. LIST OF ERROR DISPLAY / INDICATIONS

Errors and warnings are displayed by the following ways.

- 1) Errors are indicated by the number of times the LED blinks.
- 2) Errors and warnings are displayed on the LCD viewer on the operation panel.
- 3) Warnings are displayed on the printer driver's Status Monitor.

2-1. Operator Call Errors (by LED Blinking in Orange)

LED blinking in orange	Error [Error code]	Solution	Remarks
2 times	No paper. (ASF) [1000]	Set the paper in the ASF, and press the Resume/Cancel button.	
	No CD-R tray. [1001]*1	Set the CD-R tray, and press the Resume/Cancel button.	
	No paper in the cassette. [1003] (No paper in the front paper feed cassette.)	Set the paper in the cassette, and press the Resume/Cancel button.	
3 times	Paper jam. [1300]	Remove the jammed paper, and press the Resume/Cancel button.	
	Paper jam in the under guide. [1304]		
	Paper jam in the rear guide. [1303]		
	Front door closed. [1250]	Open the paper output tray.	
4 times	No ink. [1601 / 1611 / 1612 / 1613 / 1634 / 1635]	Replace the empty ink tank(s), or press the Resume/Cancel button.	Pressing the Resume/Cancel button will exit the error without ink tank replacement, however, ink may run out during printing.
5 times	The print head is not installed [1401], or it is not properly installed (EEPROM data of the print head is faulty) [1403 / 1405].	Install the print head properly, and close the access cover. Or, with the print head installed, turn the printer off and on.	
6 times	Inner cover open. [1841]*2	Close the inner cover, and press the Resume/Cancel button.	
	Inner cover open (during printing on paper). [1846]*2	Close the inner cover, and press the Resume/Cancel button.	
	CD-R tray feeder closed (during CD-R printing). [1850 / 1855]*1	Open the CD-R tray feeder, set the CD-R tray properly, and press the Resume/Cancel button.	
	CD-R tray feeder open (during printing on paper). [1851 / 1856]*1	Close the CD-R tray feeder, and press the Resume/Cancel button.	
7 times*1	No CD-R or DVD-R. [1002]	After setting a CD-R or DVD-R in the tray, set the tray in the tray feeder, and press the Resume/Cancel button.	
8 times	Warning: The waste ink absorber is almost full (approx. 95% of the maximum capacity). [1700]	Pressing the Resume/Cancel button will exit the error, and enable printing. In repair servicing, replace the bottom case unit (QM2-1496), or the ink absorbers (QC1-4221 / 4222 / 4223 / 4224 / 4257 / 4263 / 4264 / 4864).	The service call error, indicating the waste ink absorber is full, is likely to occur soon.
9 times	The connected digital camera or digital video camera does not support Camera Direct Printing. [2001]	After removing the cable between the camera and the printer, press the Resume/Cancel button, and re-connect the cable.	
10 times	Automatic duplex printing cannot be performed (paper size not supported). [1310]	Press the Resume/Cancel button to eject the paper being used at error occurrence. Printing will resume from on the front side of the next page.	Data which was to be printed on the back side of paper at error occurrence is skipped (not printed).
11 times	Failed in automatic print head alignment. [2500]	Press the Resume/Cancel button, and after confirming the following, perform print head alignment again: - Set an appropriate type and size of paper (plain paper, A4 or letter). - Check that the nozzle check pattern is properly printed (all ink ejected, no faint printing). - Protect the paper output slot from exposure to excessive light.	
	Cover open. [1200]	Close the cover.	

*1: Only for models supporting CD-R printing

*2: Only for models not supporting CD-R printing

2-2. Service Call Errors (by LED Blinking in Orange and Green Alternately, or Lit in Orange)

LED alternate blinking in orange and green	Error [Error code]	Solution (Replacement of listed parts, which are likely to be faulty)
2 times	Carriage error [5100]	- Carriage unit (QM2-1499) - Timing slit strip film (QC1-4284) - Logic board ass'y (QM2-1786)*1 - Carriage motor (QK1-0545)
3 times	Paper feed error [6000]	- Timing sensor unit (QM2-1213) - Timing slit disk film (QC1-4833) - Feed roller ass'y (QL2-0598) - Platen unit (QM2-1510) - Logic board ass'y (QM2-1786)*1 - Paper feed motor (QK1-0550)
4 times	Purge unit error [5C00]	- Purge unit (QM2-1500) - Logic board ass'y (QM2-1786)*1
5 times	ASF (cam) sensor error [5700]	- Sheet feed unit (QM2-1220)
6 times	Internal temperature error [5400]	- Logic board ass'y (QM2-1786)*1
7 times	Waste ink absorber full [5B00]	- Ink absorber (QC1-4221 / 4222 / 4223 / 4224 / 4257 / 4263 / 4264 / 4864) - Bottom case unit (QM2-1496)*2
8 times	Print head temperature rise error [5200]	- Print head (QY6-0050) - Logic board ass'y (QM2-1786)*1
9 times	EEPROM error [6800]	- Logic board ass'y (QM2-1786)*1
11 times	Carriage lift mechanism error [5110]	- Lift shaft(QC1-4331) - Photo interrupter (WG8-5624) - Sheet feed unit (QM2-1220) - Logic board ass'y (QM2-1786)*1
12 times	AP position error [6A00]	- Sheet feed unit (QM2-1220) - Logic board ass'y (QM2-1786)*1
13 times	Paper feed position error [6B00]	- Sheet feed unit (QM2-1220) - Logic board ass'y (QM2-1786)*1
14 times	Paper feed cam sensor error [6B10]	- Sheet feed unit (QM2-1220) - Logic board ass'y (QM2-1786)*1
15 times	USB Host VBUS overcurrent [9000]	- Logic board ass'y (QM2-1786)*1
16 times	Valve sensor error [6C00]	- Logic board ass'y (QM2-1786)*1
17 times	Motor driver error [6D00]	- Logic board ass'y (QM2-1786)*1
20 times	Other hardware error [6500]	- Logic board ass'y (QM2-1786)*1
Continuous alternate blinking	ROM error	- Logic board ass'y (QM2-1786)*1
Lights in orange	RAM error	- Logic board ass'y (QM2-1786)*1

*1: Before replacement of the logic board ass'y, check the waste ink amount (by service test print or EEPROM information print). If the waste ink amount is 7% or more, also replace the bottom case unit (QM2-1496) or the ink absorbers (QC1-4221 / 4222 / 4223 / 4224 / 4257 / 4263 / 4264 / 4864) when replacing the logic board ass'y.
[See Section 3-3. Adjustment / Settings, (6) Service mode, for details.]

*2: Reset the waste ink counter when replacing the bottom case unit.
[See Section 3-3. Adjustment / Settings, (6) Service mode, for details.]

2-3. Warnings

Printer (displayed on the LCD viewer):

Displayed warning	Remarks
Low ink of 6BK, 6C, 6M, 6Y, 6PC, or 6 PM (at detection of no remaining raw ink)	
Print head temperature rise	If the print head temperature is high when the access cover is opened, the warning is displayed*1. When the print head temperature falls, the warning is released.
Protection of excess rise of the print head temperature	If the print head temperature exceeds the specified limit, a Wait is inserted during printing,

*1: If the warning is displayed, the carriage does not move to the ink tank replacement position when the access cover is opened.

2-4. Troubleshooting by Symptom

	Symptom	Solution	Remarks
Faulty operation	The power does not turn on. The power turns off immediately after power-on.	Replace the - AC adapter, or - logic board ass'y*1.	
	Strange noise.	Remove foreign material, or attach a removed part if any.	
	Printing stops mid-way.	Replace the logic board ass'y*1.	
Paper feed problems	Multiple sheets feed.	Replace the - sheet feed unit, or - cassette.	
	Paper does not feed.	Remove foreign material, or replace the - sheet feed unit, or - cassette.	
	Paper feeds at an angle.	Remove foreign material, or adjust the paper guide, or replace the - sheet feed unit, or - cassette.	
Unsatisfactory print quality	No printing, or no color ejected.	Replace the - ink tank, - print head*2, - logic board ass'y*1, or - purge unit.	
	Printing is faint, or white lines appear on printouts even after print head cleaning. Line(s) not included in the print data appears on printouts.	Remove and re-install the print head, or replace the - ink tank, - print head*2, - purge unit, or - logic board ass'y*1.	
	Paper gets smeared.	Feed several sheets of paper, perform bottom plate cleaning, or clean the paper path with cotton swab or cloth.	
	A part of a line is missing on printouts.	Replace the - ink tank, or - print head*2.	
	Color hue is incorrect.	Replace the - ink tank, or - print head*2, or perform print head alignment.	
	Printing is incorrect.	Replace the logic board ass'y*1.	
	No ejection of black ink.	Replace the - ink tank, or - print head*2.	
	Graphic or text is enlarged on printouts.	When enlarged in the carriage movement direction, clean grease or oil off the timing slit strip film, or replace the - timing slit strip film, - carriage unit, or - logic board ass'y*1. When enlarged in the paper feed direction, clean grease or oil off the timing slit disk film, or replace the - timing slit disk film, - timing sensor unit, or - logic board ass'y*1.	

*1: Before replacement of the logic board ass'y, check the waste ink amount (by service test print or EEPROM information print). If the waste ink amount is 7% or more, also replace the bottom case unit (QM2-1496) or the ink absorbers (QC1-4222 / 4223 / 4224 / 4263 / 4264 / 4864 / 4221 / 4257) when replacing the logic board ass'y.

[\[See Section 3-3. Adjustment / Settings, \(6\) Service mode, for details.\]](#)

*2: Replace the print head only after the print head deep cleaning is performed 2 times, and when the problem persists.

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3. REPAIR

3-1. Notes on Service Part Replacement (and Disassembling / Reassembling)

Service part	Notes on replacement*1	Adjustment / settings	Operation check
Logic board ass'y QM2-1786	<ul style="list-style-type: none"> - Before removal of the logic board ass'y, remove the power cord, and allow for to sit approx. 1 minute (for discharge of capacitor's accumulated charges), to prevent damage to the logic board ass'y. - Before replacement, check the waste ink amount (by service test print or EEPROM information print). If the waste ink amount is 7% or more, also replace the bottom case unit or the ink absorbers when replacing the logic board ass'y. <p>[See 3-3. Adjustment / Settings, (6) Service mode, for details.]</p>	<p>After replacement:</p> <ol style="list-style-type: none"> 1. Initialize the EEPROM. 2. Reset the waste ink counter. 3. Set the destination in the EEPROM. 4. Set the LCD viewer language. 5. Correct the CD-R and automatic print head alignment sensors. <p>[See 3-3. Adjustment / Settings, (6) Service mode, for details of 1 to 5]</p> <ol style="list-style-type: none"> 6. Perform the print head alignment in the user mode. 	<ul style="list-style-type: none"> - EEPROM information print - Service test print - Printing via parallel or USB connection - Direct printing from a digital camera - Direct printing from a memory card - Print Beam printing
Bottom case unit QM2-1496		<p>After replacement:</p> <ol style="list-style-type: none"> 1. Reset the waste ink counter. <p>[See 3-3. Adjustment / Settings, (6) Service mode.]</p>	<ul style="list-style-type: none"> - Service test print
Ink absorber QC1-4221 / 4222 / 4223 / 4224 / 4257 / 4263 / 4264 / 4864			
Carriage unit QM2-1499		<p>At replacement:</p> <ol style="list-style-type: none"> 1. Apply grease to the sliding portions. <p>[See 3-3. Adjustment / Settings, (3) Grease application.]</p> <p>After replacement:</p> <ol style="list-style-type: none"> 1. Correct the CD-R and automatic print head alignment sensors. <p>[See 3-3. Adjustment / Settings, (6) Service mode.]</p> <ol style="list-style-type: none"> 2. Perform the print head alignment in the user mode. 	<ul style="list-style-type: none"> - Service test print (Confirm CD-R and automatic print head alignment sensor correction.)
Paper feed motor unit QK1-0550	<ul style="list-style-type: none"> - The red screws securing the paper feed motor are allowed to be loosened. (DO NOT loosen any other red screws.) 	<p>At replacement:</p> <ol style="list-style-type: none"> 1. Adjust the paper feed motor. <p>[See 3-3. Adjustment / Settings, (1) Paper feed motor adjustment.]</p>	
Shaft lift QC1-4331		<p>At replacement:</p> <ol style="list-style-type: none"> 1. Apply grease to the sliding portions. <p>[See 3-3. Adjustment / Settings, (3) Grease application.]</p>	<ul style="list-style-type: none"> - Service test print
Timing slit strip film QC1-4284	<ul style="list-style-type: none"> - Upon contact with the film, wipe the film with ethanol. - Confirm no grease is on the film. (Wipe off any grease thoroughly with ethanol.) 	<p>After replacement:</p> <ol style="list-style-type: none"> 1. Perform the print head alignment in the user mode. 	<ul style="list-style-type: none"> - Service test print
Timing slit disk film QC1-4833	<ul style="list-style-type: none"> - Do not bend the film 		
Print head QY6-0050		<p>After replacement:</p> <ol style="list-style-type: none"> 1. Perform the print head alignment in the user mode. 	<ul style="list-style-type: none"> - Service test print

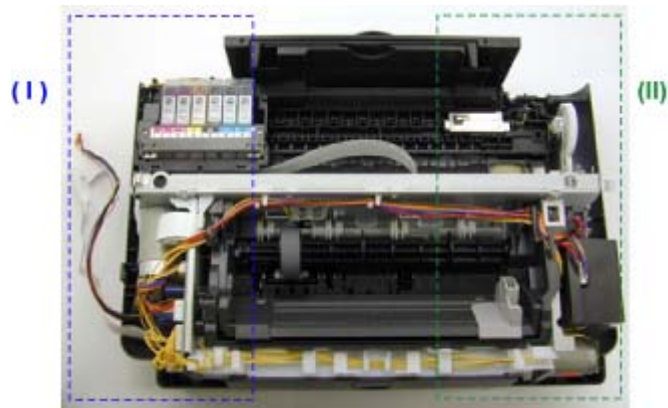
*1: General notes:

- Make sure that the flexible cables and wires in the harness are in the proper position and connected correctly.
- [\[See 3-2. Special Notes on Repair Servicing, \(1\) Flexible cable and harness wiring, connection, for details.\]](#)
- Do not drop the ferrite core, as it may damage the core.
- Protect electrical parts from damage due to static electricity.
- Before removing a unit, after removing the power cord, allow the printer to sit for approx. 1 minute (for capacitor discharging to protect the logic board ass'y from damages).
- Do not touch the timing slit strip film and timing slit disk film. No grease or abrasion is allowed.
- Protect the units from becoming soiled with ink.
- Protect the housing from scratches.
- Exercise caution with the red screws, as follows:
 - i. The red screws of the paper feed motor may be loosened only at replacement of the paper feed motor unit (DO NOT loosen them in other cases).
 - ii. DO NOT loosen the red screws on both sides of the main chassis, securing the carriage shaft positioning (they are not adjustable in servicing).

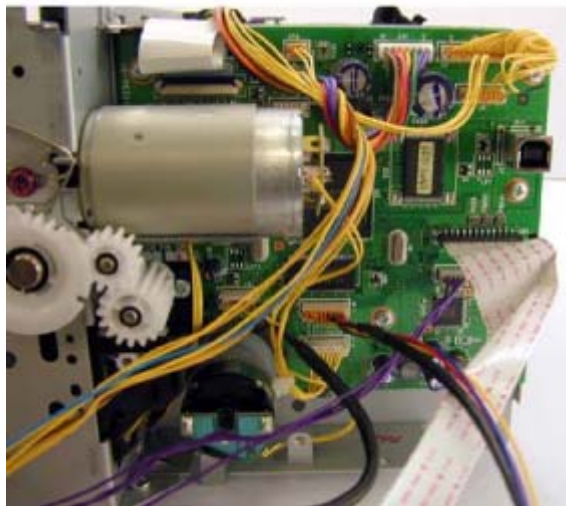
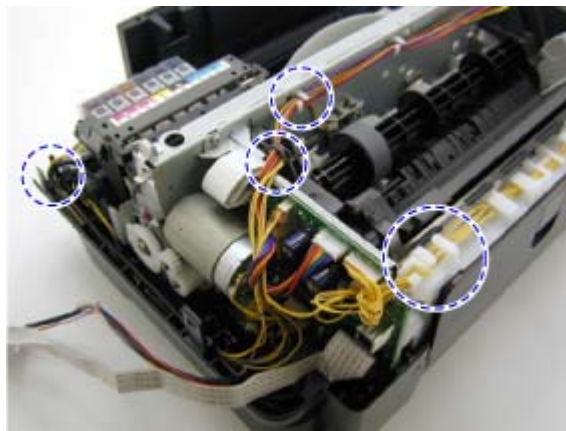
3-2. Special Notes on Repair Servicing

(1) Flexible cable and harness wiring, connection

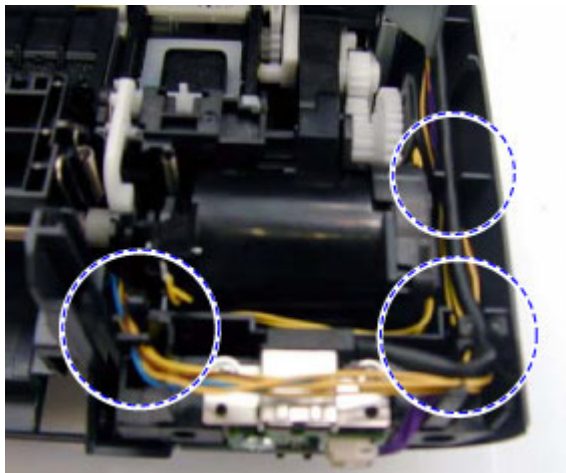
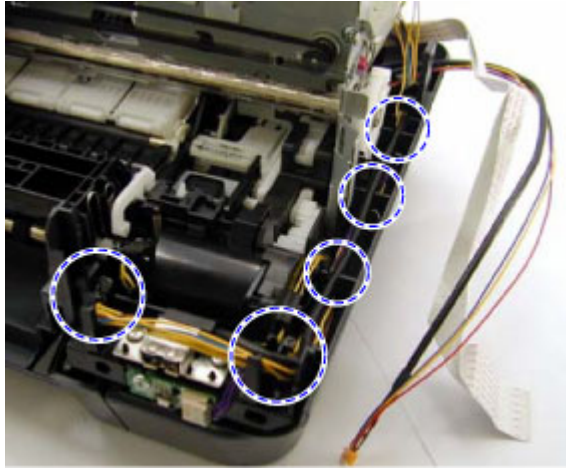
Exercise care when handling the flexible cables and harness wiring. Improper wiring or connection may cause a short-circuit, and may lead to ignition or emission of smoke.



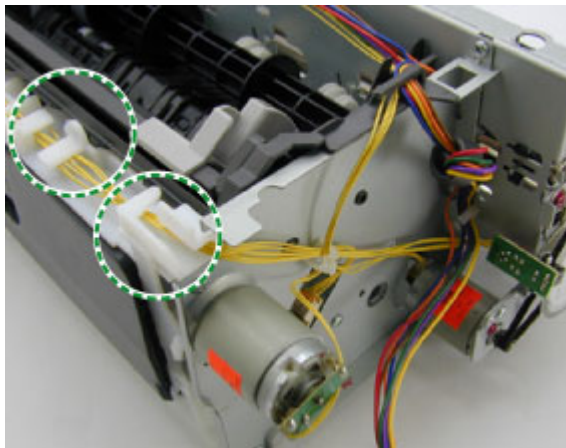
(I) Logic board ass'y and operation panel unit wiring



(II) DCC holder unit wiring



(III) Paper feed motor side wiring



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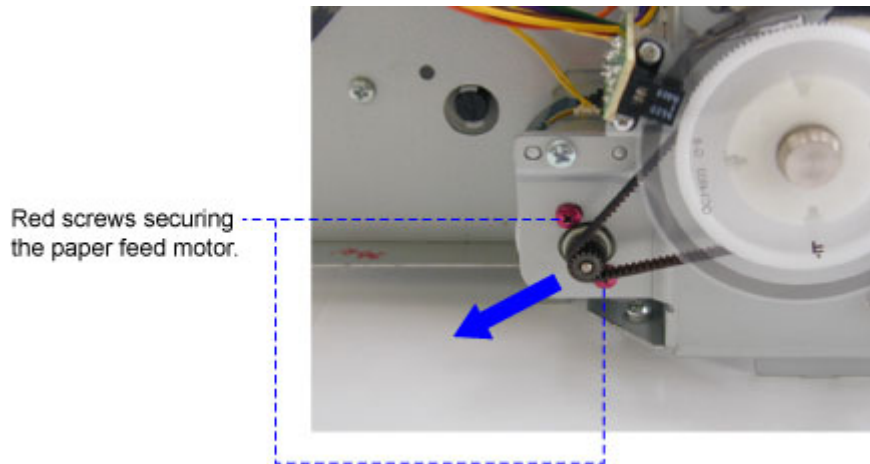
← <Part 1: 3. REPAIR, 3-2> →

3-3. Adjustment / Settings

(1) Paper feed motor adjustment

Perform the following adjustments when the paper feed motor unit is replaced:

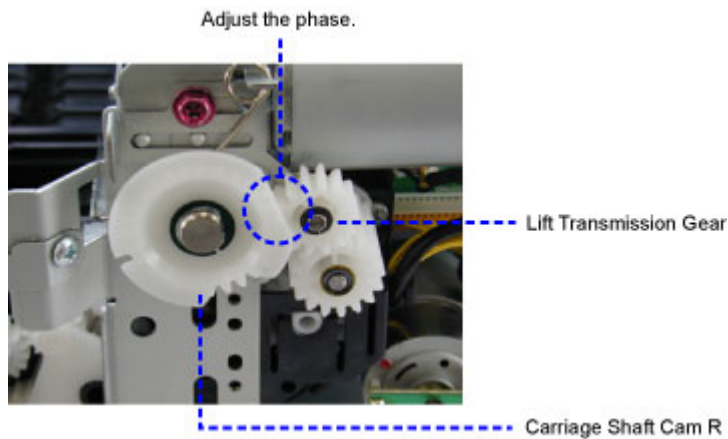
- 1) When attaching the motor, fasten the screws so that the belt is properly stretched (in the direction indicated by the blue arrow in the figure below).
- 2) After replacement, be sure to perform the service test print, and confirm that no strange noise or faulty print operation (due to dislocation of the belt or gear, or out-of-phase motor, etc.) occurs.



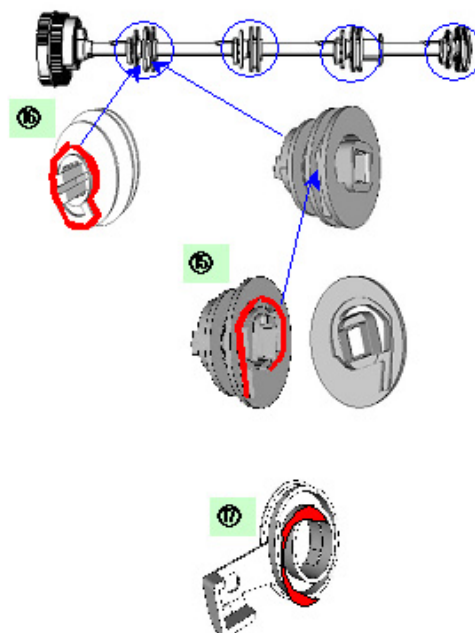
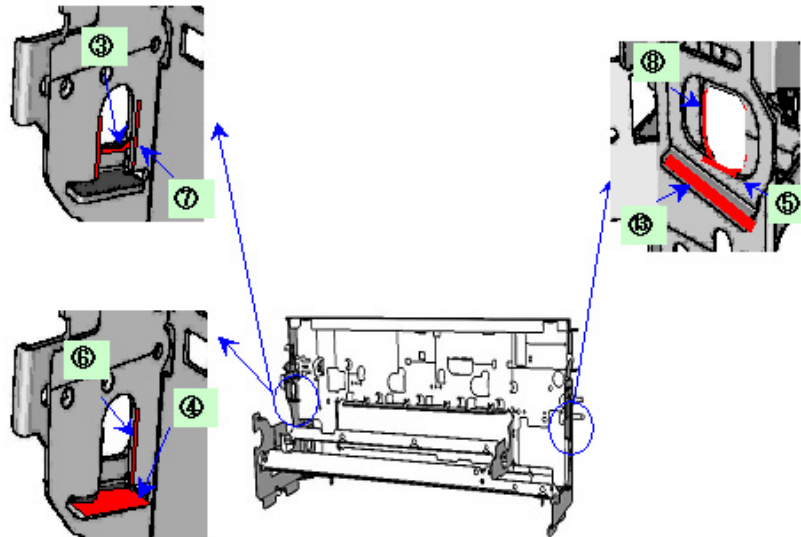
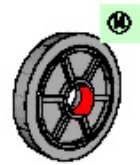
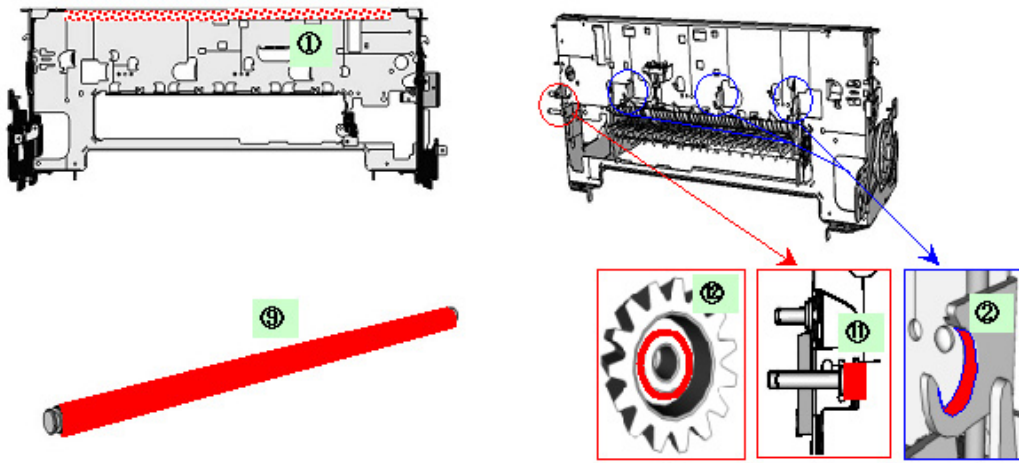
Note: The red screws securing the paper feed motor may be loosened only at replacement of the paper feed motor unit. DO NOT loosen them in other cases.

(2) Gear phase adjustment

In attaching the lift transmission gear (QC1-4327), adjust the phase so that the protrusion of the lift transmission gear (QC1-4327) fits into the recess of the carriage shaft cam R (QC1-4282), as shown in the figure below.



(3) Grease application



Part name	Where to apply grease / oil		Grease / oil name	Grease / oil amount
Chassis	1	Entire contact surface of the carriage slider rail	FLOIL KG107A	3 drops
	2	Cam contact portion	FLOIL KG107A	1 drop
	3	Carriage shaft sliding portion	FLOIL KG107A	1 drop
	4	Carriage shaft cam L sliding portion	MOLYKOTE HP300	2 drops
	5	Carriage shaft sliding portion	FLOIL KG107A	1 drop
	6	Carriage shaft sliding portion on the left side of the chassis	FLOIL KG107A	1 drop
	7	Carriage shaft cam L sliding portion on the left side of the chassis	FLOIL KG107A	2 drops
	8	Carriage shaft sliding portion on the right side of the chassis	FLOIL KG107A	1 drop
Carriage shaft	9	Entire surface of the carriage shaft where the carriage unit slides	FLOIL KG107A	200 to 400mg
Carriage shaft spring L	10	Carriage shaft sliding portion (over the area more than 2/3 from the top end of the spring)	FLOIL KG107A	1 drop
Lift gear 2 shaft	11	Outer surface of the stepped portion where the spring slides	MOLYKOTE HP300	1 drop
Lift gear 2	12	Outer surface of the spring sliding bushing	MOLYKOTE HP300	1 drop
Chassis	13	Carriage shaft cam R sliding portion	MOLYKOTE HP300	1 drop
Transmission gear	14	Inner surface	MOLYKOTE HP300	1 drop
Lift shaft	15	Spring sliding portion (4 locations)	FLOIL KG107A	1 drop
	16	Pressure roller ass'y contact portion (4 locations)	FLOIL KG107A	1 drop
Feed roller ass'y	17	Spring contact bushing	FLOIL KG107A	Half drop

Note: 1 drop = 9 to 18 mg

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← <Part 1: 3. REPAIR, 3-3 (1) to (3)> →

(4) Waste ink counter setting

When the logic board ass'y is replaced, reset the waste ink counter. In addition, according to the waste ink amount, replace the waste ink absorber (the bottom case unit or the ink absorbers). The standard amount for waste ink absorber replacement is given in the table below.

Waste ink amount*1	Bottom case unit or ink absorber replacement
Less than 7%	Not required.
7% or more	Required.

*1: Check the waste ink amount by service test print or EEPROM information print.

[\[See 3-3. Adjustment / Settings, \(6\) Service mode, for details.\]](#)

(5) User mode

Function	Procedures	Remarks
Nozzle check pattern printing	On standalone printers, press the Menu button to move to Maintenance, and perform the selection. (Nozzle check)	Also available from "Standalone printer operation 2" below or printer driver's maintenance sheet.
Print head manual cleaning	Cleaning both black and color: On standalone printers, press the Menu button to move to Maintenance, and perform the selection. (Head cleaning)	Also available from "Standalone printer operation 2" below or printer driver's maintenance sheet.
Print head deep cleaning	Cleaning both black and color: On standalone printers, press the Menu button to move to Maintenance, and perform the selection. (Deep cleaning)	Also available from "Standalone printer operation 2" below or printer driver's maintenance sheet.
Automatic print head alignment	On standalone printers, press the Menu button to move to Maintenance, and perform the selection. (Auto head align)	Also available from "Standalone printer operation 2" below or printer driver's maintenance sheet.
Manual print head alignment	On standalone printers, press the Menu button to move to Maintenance, and perform the selection. (Manual head align)	In Custom Settings of the printer driver's Maintenance sheet, manual print head alignment (by selecting the optimum values) as with the conventional models can be performed.
Print head alignment values printing	Print and confirm the print head alignment values set in the printer. On standalone printers, press the Menu button to move to Maintenance, and perform the selection. (Manual head align)	
Head-to-paper distance setting	The head-to-paper distance setting can be set to Auto or Thick paper. On standalone printers, press the Menu button to move to Maintenance, and perform the selection. (Thick paper)	
Contrast adjustment	The contrast of the LCD viewer on the printer can be adjusted. On standalone printers, press the Menu button to move to Maintenance, and perform the selection. (Contrast)	
Quiet mode setting	The quiet mode can be set to On or Off. On standalone printers, press the Menu button to move to Maintenance, and perform the selection. (Quiet mode)	Also available from printer driver's maintenance sheet.
Language selection	Languages to be displayed on the LCD viewer of the printer can be set. On standalone printers, press the Menu button to move to Maintenance, and perform the selection. (Languages)	
Paper feed roller cleaning	See "Standalone printer operation 2" below.	
Bottom plate cleaning	See "Standalone printer operation 2" below, or perform from the printer driver's Maintenance tab.	Clean the platen ribs when the back side of paper gets smeared.
Print head replacement	The print head is replaceable at the same time position as for ink tank replacement. (Open the cover. When the carriage stops at the center, the print head can be replaced.)	

<Standalone printer operation>

- 1) Turn on the printer.
- 2) Press and hold the Resume/Cancel button until the LED blinks the specified number of times listed in the table below, and release it. The operation starts.

LED blinking	Operation	Remarks
1 time	Print head manual cleaning	
2 times	Nozzle check pattern printing	Set a sheet of plain paper (A4 or letter) in the sheet feeder or the cassette (according to the Paper Feed switch setting).
3 times	Paper feed roller cleaning	
4 times	Automatic print head alignment	Set a sheet of plain paper (A4 or letter) in the sheet feeder.
5 times	Bottom plate cleaning	Fold a sheet of plain paper (A4 or letter) in half crosswise, then unfold and set it in the sheet feeder with the folded ridge facing down.
6 times	Unspecified	
7 times	Set the widest head-to-paper distance	

(6) Service mode

Function	Procedures	Remarks
Service test print - Model name - ROM version - USB serial number - Waste ink amount - CD-R sensor correction - LCD viewer language settings	See "Service mode operation procedures" below.	Set a sheet of A4 or letter- sized paper. For a print sample, see 3-4. Verification Items, (1) Service test print, <Service test print sample> .
EEPROM information print	See "Service mode operation procedures" below.	Set a sheet of A4 or letter- sized paper. For a print sample, see 3-4. Verification Items, (2) EEPROM information print
EEPROM initialization	See "Service mode operation procedures" below.	The following items are NOT initialized: - USB serial number - Destination settings - Waste ink counter - CD-R correction value
Waste ink counter reset	See "Service mode operation procedures" below.	If the waste ink amount is 7% or more, replace the bottom case unit, or the ink absorbers.
Destination settings	See "Service mode operation procedures" below.	Other than Japan: iP6000D Japan: iP6100D
Button/LCD viewer test	See "Service mode operation procedures" below.	Confirm the operation button operation and the LCD viewer display. Perform them at the operation panel replacement.

Note: At the end of the service mode, press the Power button. At that time, the paper lifting plate of the sheet feeder unit will be raised.

<Service mode operation procedures>

- 1) With the printer power turned off, while pressing the Resume/Cancel button, press and hold the Power button. (DO NOT release the buttons. The LED lights in green to indicate that a function is selectable.)
- 2) While holding the Power button, release the Resume/Cancel button. (DO NOT release the Power button.)
- 3) While holding the Power button, press the Resume/Cancel button 2 times, and then release both the Power and Resume/Cancel buttons. (Each time the Resume/Cancel button is pressed, the LED lights alternately in orange and green, starting with orange.)
- 4) When the LED lights in green, press the Resume/Cancel button the specified number of time(s) according to the function listed in the table below. (Each time the Resume/Cancel button is pressed, the LED lights alternately in orange and green, starting with orange.)

Time(s)	LED	Function	Remarks
0 times	Green	Power off	When the print head is not installed, the carriage returns and locks in the home position.
1 time	Orange	Service test print	See 3-4. Verification Items, (1) Service test print.
2 times	Green	EEPROM information print	See 3-4. Verification Items, (2) EEPROM information print.
3 times	Orange	EEPROM initialization	
4 times	Green	Waste ink counter resetting	
5 times	Orange	Destination settings	Proceed to the following step 5), and follow the Destination settings procedures.
6 times	Green	Print head deep cleaning	
7 times	Orange	CD-R test print	Not used in servicing.
8 times	Green	CD-R print position correction (horizontal)	Not used in servicing.
9 times	Orange	CD-R print position correction (vertical)	Not used in servicing.
10 times	Green	Button and LCD viewer test	Proceed to the following step 5), and follow the Button and LCD viewer test procedures.
11 times or more		Return to the menu selection	

- 5) After the function (menu) is selected, press the Power button. The LED lights in green, and the selected function is performed. (When the operation completes, the printer returns to the menu selection mode automatically.)

<Destination settings procedures>

In the destination settings mode, press the Resume/Cancel button the specified number of time(s) according to the destination listed in the table below, and press the Power button.

Time(s)	LED	Destination
1 time	Orange	Japan: iP6100D
2 times	Green	Other than Japan, non-support of CD-R printing (A4): iP6000D (A4)
3 times	Orange	Other than Japan, non-support of CD-R printing (LTR): iP6000D (LTR)
4 times	Green	Other than Japan, support of CD-R printing (A4): iP6000D (A4)
5 times	Orange	Other than Japan, support of CD-R printing (LTR): iP6000D (LTR)
6 times or more		Return to the menu selection

Note: After setting the destination, confirm the model name in the service test print or EEPROM information print.
[\[See 3-4. Verification Items, \(1\) Service test print, or \(2\) EEPROM information print.\]](#)

<Button and LCD viewer test>

After moving to the button and LCD viewer test mode, perform the following to check the operation of buttons and the LCD viewer display.

- 1) Press the Paper Feed switch. The LCD viewer's color will change and display "blue" full-screen. (If an error has occurred, the error LED lights. In this case, input other than the Power button is not possible. Re-enter service mode to perform this test.)
- 2) Press each button on the operation panel (excluding the Power and Resume buttons). Each time each button is pressed, a part of the display will change to "red". (The area changed to "red" is as shown in the diagram below. The figure shows the display when both the Menu and OK buttons are pressed.)

===LCD viewer display===

Stop button	-	Down button	Right button
Print button	+	Setting button	Up button
EPP button	Trimming button	Back button	Left button
Save button	Menu button	Search button	OK button

- 3) Press all buttons, excluding the Power button and Resume button. The entire LCD viewer will change to display "red" full-screen.
- 4) Open the cover to display the color pattern.

Red	Black	White	Cyan
Green	White	Black	Magenta
Blue	Black	White	Yellow

- 5) Press the Power button to return to the service mode function selection status.

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← <Part 1: 3. REPAIR, 3-3 (4) to (7)> →

3-4. Verification Items

(1) Service test print

<EEPROM information contents>

On the service test print (sample below), confirm the EEPROM information as shown below. (The information is given in the upper portion of the printout.)

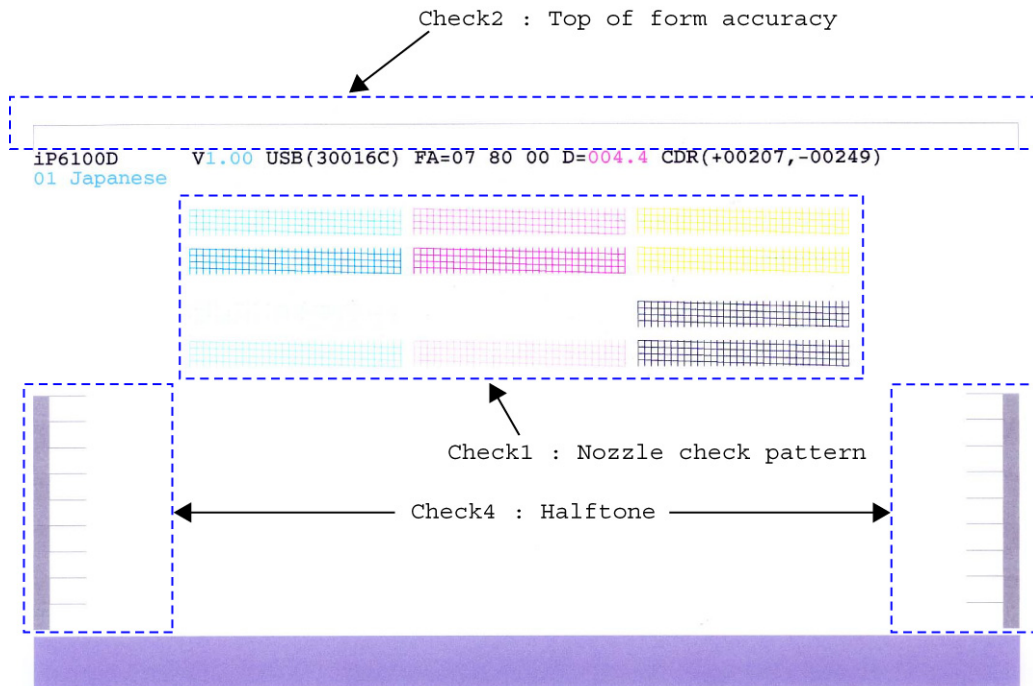
----- Destination (model name)
----- Rom Version
----- USB serial number
----- Reserved for factory use
----- Ink absorber waste ink amount(%)
----- CD-R sensor correction value
iPxxxx Vx.xx USB (xxxxxxxx) FA=xx xx xx D=xxx.x CDR (xxxxxxx, xxxxxx)
01 Japanese
----- LCD viewer language settings

<Print check items>

On the service test print (sample below), confirm the following items:

- Check 1, nozzle check pattern: Ink shall be ejected from all nozzles
- Check 2, top of form accuracy: The line shall not extend off the paper.
- Check 3, vertical straight lines: The line shall not be broken.
- Check 4, halftone: There shall be no remarkable streaks or unevenness.
- Check 5, CD-R / automatic print head alignment sensor correction: The results shall be OK.

<Service test print sample>



(2) EEPROM information print

<How to read the EEPROM information print>

Print sample:

1:iPXXXXD 2:V1.00 3:IF(USB1=1) 4:D=004.5 5:ST=2004/05/27-18:30
6:ER(ER0=1000 ER1=5100 7:LPT=2004/06/03-09:09 8: PC(M=002 R=000 T=001 D=009 C=009)
9:CLT(2004/06/19-18:30) 10:CH=00002 11:CT(BK=002 C=001 M=000 Y=001 PC=002 PM=002)
12:IS(BK1=1 C=1 M=1 Y=1 PC=1 PM=1) 13:Power(SON=00061 SOFF=00041 HON=00029)
14:A_REG=1 15:M_REG=0 16: UR(A=+01 B=000 C=000 D=00 E=000 F=+01 G=000 H=000)
17:LG=01 Japanese 18:WP=0024 19:CDIN(LG=001 PB=000 OPB=000) 20:MSD(015)
21:Tpage(00398) 22:PAGE(All=00074 PP=00027 HR=00043 MP=00000 PR=00003
SP+GP=00001 GP=00000 PC=00000 ENV=00000) 23: UCPAGE(All=00312 PP=00280
HR=00032 MP=00000 PR=00000 SP+SG=00000 GP=00000 PC=00000 ENV=00000)
24:BPPAGE(All=00000 BSGP=000030 PC=00000)
25:CDPAGE(All=000) 26:EDGE=00003 27:L=00004 28:CDR=00012
29:CDRP=(+00196,-00283) 30:CDRS=(030) 31:Head Temp=31.0
32:Env Temp=27.5 33:FF(07 80 00) 34:OPP=00000 35 :PrnB=00000 36:Seal=00000
37:CardPaper=00001 38:CardIns(0081) 39:CardPrn(0008)
40:CardD-PR(L/4x6=0002 2L/5x7=0000 JPC=0000 A4/LTR=0000)
41:CardD-SP(L/4x6=0002 2L/5x7=0000 JPC=0000 A4/LTR=0000)
42:CardD-MP(L/4x6=0002 2L/5x7=0000 JPC=0000 A4/LTR=0000)
43:CameraD-Photo Paper(L/4x6=0000 2L/5x7=0000 JPC=0000 A4/LTR=0000)
44:CameraD-Fast Photo Paper(L/4x6=0000 2L/5x7=0000 JPC=0000 A4/LTR=0001)
45:CameraD-Matte Photo Paper(L/4x6=0000 2L/5x7=0000 JPC=0000 A4/LTR=0000)

HDEEPROM

1:V0001 2:SN=0000-08D6 3:LN(15 15 15 15 63 63 15) 3: ID=00

4:IL=(BK=000 C=000 M=000 Y=000 PC=000 PM=000)

Printed items:

1. Model name
2. ROM Version
3. Connected I/F (USB1)
4. Waste ink amount
5. Installation date
6. Operator call/service call error record
7. Last printing time
8. Purging count (manual/deep cleaning/timer/dot count/ink tank or print head replacement)
9. Cleaning time
10. Print head replacement count
11. Ink tank replacement count (BK/C/M/Y/PC/PM)
12. Ink status (BK/C/M/Y/PC/PM)
13. Power-on count (soft-on, soft-off, hard-on)
14. Automatic print head alignment by user
15. Manual print head alignment by user
16. User print head alignment value (A/B/C/D/E/F/G/H)
17. Language settings
18. Wiping count
19. Camera Direct Print-supported device connection record (Bubble Jet Direct, Canon PictBridge, Other maker's PictBridge)
20. Longest period of non-printing
21. Total pages fed
22. Sheet feeder pages fed (total, plain paper, High Resolution Paper & Matte Photo Paper, Photo Paper Pro & Photo Paper Plus Glossy & Photo Paper Plus Semi-gloss, Glossy Photo Paper, Postcard, Envelope)
23. Cassette feeder pages fed (total, plain paper, High Resolution Paper & Matte Photo Paper, Photo Paper Pro & Photo Paper Plus Glossy & Photo Paper Plus Semi-gloss, Glossy Photo Paper, Postcard, Envelope)
24. Auto duplex print pages (total, Photo Paper Plus Double Sided, postcard)
25. Camera Direct print pages (total)
26. Borderless print pages
27. L & 4x6 print pages
28. Number of CD-Rs printed
29. CD-R print position adjustment
30. CD-R sensor correction value
31. Print head temperature
32. Inside temperature
33. Line inspection information
34. Other Photo Paper
35. Print Beam pages fed
36. Photo Stickers pages fed
37. Business card + Credit card sized paper pages fed
38. Memory card use count
39. Total direct memory card printing pages fed
40. Number of direct memory card print: Photo Paper Pro (L/4 x 6, 2L/5 x 7, Japanese post card, and A4/Letter)
41. Number of direct memory card print: Photo Paper Plus Glossy (L/4 x 6, 2L/5 x 7, Japanese post card, and A4/Letter)
42. Number of direct memory card print: Matte Photo Paper (L/4 x 6, 2L/5 x 7, Japanese post card, and A4/Letter)
43. Number of Camera Direct print: Photo Paper (L/4 x 6, 2L/5 x 7, Japanese post card, and A4/Letter)
44. Number of Camera Direct print: Fast Photo Paper (L/4 x 6, 2L/5 x 7, Japanese post card, and A4/Letter)
45. Number of Camera Direct print: Matte Photo Paper (L/4 x 6, 2L/5 x 7, Japanese post card, and A4/Letter)

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4. PRINTER TRANSPORTATION

This section describes the procedures for transporting the printer for returning after repair, etc.

- 1) In the service mode, press the Power button to finish the mode, and confirm that the paper lifting plate of the sheet feeder unit is raised.
- 2) Keep the print head and ink tanks installed in the carriage.
[\[See Caution 1 below.\]](#)
- 3) Turn off the printer to securely lock the carriage in the home position. (When the printer is turned off, the carriage is automatically locked in place.)
[\[See Caution 2 below.\]](#)
- 4) To further secure the carriage to prevent movement from the home position during transportation, make and use a fixing tool in the following procedures:
 - i. Fold an A4-sized paper 5 times, and wrap it twice with tape, as shown in Figure A below (to prevent the fixing tool from caught into the inside of the printer).
 - ii. Insert the fixing tool between the carriage and the main case unit, and securely fix it with tape, as shown in Figures B and C below.

Note: The tape should be similar to the polyester tape used at shipment, which will not easily be torn or removed, or leave adhesive on the unit when removed.

Leave a sufficient length of tape to fix the tool so that the tape end is easily seen even when the cover is closed, so that the user will remove the tool from the returned printer without fail.

Figure A:



Figure B:



Figure C:



Caution:

- (1) If the print head is removed from the printer and left alone by itself, ink is likely to dry. For this reason, keep the print head installed in the printer even during transportation.
- (2) Securely lock the carriage in the home position, to prevent the carriage from moving and applying stress to the carriage flexible cable or causing ink leakage during transportation.

Part 2

TECHNICAL REFERENCE



1. NEW TECHNOLOGIES

(1) Multi-paper handling

Paper feeding through the auto sheet feeder and the cassette, automatic duplex printing, and CD-R / DVD-R direct printing are available as standard features.

- Sheet feeder: Supports name/credit card size and sticker sheets as well as conventional paper types and sizes.
- Front cassette: Except name, credit card and legal size and sticker sheets, supports the same types and sizes of paper as the sheet feeder.
- Automatic duplex printing unit built-in: Using Photo Paper Plus Double Sided, photo albums can be created automatically.
- CD-R / DVD-R direct printing unit built-in: By incorporating CD-R / DVD-R tray feeder functionality into the printer, CD-R / DVD-R direct printing is possible.
- Front loading and operation without lever settings offers easy and quick printing.

(2) New design

- Complete renovation to a new generation printer design
- Elegant-looking housing with mirror finished surfaces

(3) Automatic duplex printing unit installed as a standard feature

For the following paper types and sizes, automatic duplex printing can be performed:

- Type: Plain paper, Super White Paper (double-sided plain paper), Photo Paper Plus Double Sided (double-sided glossy photo paper)
- Size: A5, B5, 5" x 7", A4, LTR

(4) Card direct printing

a. By using a menu-format GUI utilizing a newly adopted 2.5 inch built-in LCD Viewer (versus 2.0 inch for the i900D), printing the desired output can be performed.

- Image search (function to search photos)
- Color adjustment (brightness, contrast, hue) and process (sepia, simulate illustration)
- Color adjustment printing (possible to change to preferred colors after sample printing)

b. Memory Stick PRO and Memory Stick PRO Duo (adapter required) are also supported.

(5) Print Beam supported

Direct Printing from a camera-equipped mobile phone can be performed using infrared communication. (not compatible with computer and PDA for printing, and text printing is not possible.)

(6) CD-R direct printing without use of a CD-R tray feeder (applicable only to specific regions)

By incorporating CD-R tray feeder functionality into the printer, CD-R direct printing can be performed without using a CD-R tray feeder.

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2. CLEANING MODE AND AMOUNT OF INK PURGED

To prevent printing problems due to bubbles, dust, or ink clogging, print head cleaning is performed before the start of printing, except in the following cases:

- Cleaning on arrival: Performed when the access cover is closed.
- Cleaning by dot count: Performed after ejection of paper (or after printing on the back side of paper when auto duplex printing is performed).
- Manual cleaning / deep cleaning: Performed manually.

<Cleaning mode list>

Condition	Details	Amount of ink used (g)	Est. required time (sec.)
On arrival of the printer	First and second cleaning after shipped from the plant.	1.80	70
Dot count cleaning	When the specified number of dots are printed since the previous cleaning. (Large and small nozzles for cyan and magenta counted separately.)	0.60	40
Timer cleaning - 1	If 120 to 336 hours have elapsed since the previous cleaning till the start of the next printing.		
Timer cleaning - 2	If more than 336 hours have elapsed since the previous Black cleaning till the start of the next printing.	1.20	55
If the print head is un-capped at power-on		However, 0.70 at Bk/Y ink tank replacement	
At ink tank replacement			
At print head replacement		1.80	70
Manual cleaning	- Via the operation panel - Via the printer driver	0.60	40
Deep cleaning	- Via the operation panel - Via the printer driver	1.20	55

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3. PRINT MODE

3-1 Resolution by Print Mode during Printing via Computer

Paper type		Quality level 5	Quality level 4	Quality level 3	Quality level 2	Quality level 1
Plain paper	No. of passes Resolution (dpi)	1 pass Bk: 300 x 300 Y, M, C: 300 x 300	1 pass Bk: 300 x 300 Y, M, C: 300 x 300	2 passes Bk, Y: 600 x 1200 M, C: 600 x 600	6 passes Bk, Y: 600x1200 M, C, Pm, Pc: 600 x 600	
High Resolution Paper (HR-101N)	No. of passes Resolution (dpi)			6 passes Bk, Y: 600 x 1200 M, C, Pm, Pc: 600x 600	8 passes Bk, Y: 600 x 1200 M, C, Pm, Pc: 600 x 600	
Photo Paper Pro (PR-101/PH-101)	No. of passes Resolution (dpi)			6 passes Bk, Y: 600 x 1200 M, C, Pm, Pc: 600x 600	8 passes Bk, Y: 600 x 1200 M, C, Pm, Pc: 600 x 600	16 passes Bk, Y, M, C, Pm, Pc: 4800 x 1200
Glossy Photo Paper (GP-401/ KH-201N/ EC-101)	No. of passes Resolution (dpi)			6 passes Bk, Y: 600 x 1200 M, C, Pm, Pc: 600x 600	8 passes Bk, Y: 600 x 1200 M, C, Pm, Pc: 600 x 600	
Photo Paper Plus Glossy (PP-101/ SG-101/ KM-101/ MM-101)	No. of passes Resolution (dpi)			6 passes Bk, Y: 600 x 1200 M, C, Pm, Pc: 600x 600	8 passes Bk, Y: 600 x 1200 M, C, Pm, Pc: 600 x 600	
Matte Photo Paper (MP-101)	No. of passes Resolution (dpi)			6 passes Bk, Y: 600 x 1200 M, C, Pm, Pc: 600 x 600	8 passes Bk, Y: 600 x 1200 M, C, Pm, Pc: 600 x 600	
T-Shirt Transfers (TR-301)	No. of passes Resolution (dpi)			6 passes Bk, Y: 600 x 1200 M, C: 600 x 600		
Transparencies (CF-102)	No. of passes Resolution (dpi)			6 passes Bk, Y: 600 x 1200 M, C: 600 x 600	8 passes Bk, Y: 600 x 1200 M, C: 600 x 600	
CD-R (suggested media/ others)	No. of passes Resolution (dpi)			6 passes Bk, Y: 600 x 1200 M, C, Pm, Pc: 600 x 600	8 passes Bk, Y: 600 x 1200 M, C, Pm, Pc: 600 x 600	12 passes Bk, Y: 600 x 1200 M, C, Pm, Pc: 600 x 600
Photo Paper Plus Sided (PP-101D)	No. of passes Resolution (dpi)			6 passes Bk, Y: 600 x 1200 M, C, Pm, Pc: 600x 600	8 passes Bk, Y: 600 x 1200 M, C, Pm, Pc: 600 x 600	
Other Photo Paper *	No. of passes Resolution (dpi)				8 passes Bk, Y: 600 x 1200 M, C, Pm, Pc: 600 x 600	

White background: Printed with 5 pl only

Yellow background: Printed with 5 pl and 2 pl (Bk/Y is printed with 5 pl only.)

Green text: Draft

Blue text: Standard

Red text: High

*: iP6000D only

3-2 Resolution in Borderless Printing

Paper type		Quality level 5	Quality level 4	Quality level 3	Quality level 2	Quality level 1
Plain paper	No. of passes Resolution (dpi)			2 passes Bk, Y: 600 x 1200 M, C: 600x600		
Photo Paper Pro (PR-101/PH-101)	No. of passes Resolution (dpi)			6 passes Bk, Y: 600 x 1200 M, C, Pm, Pc: 600 x 600	8 passes Bk, Y: 600 x 1200 M, C, Pm, Pc: 600 x600	16 passes Bk, Y, M, C, Pm, Pc: 4800 x 1200
Glossy Paper (GP-401/ KH-201N/ EC-101)	No. of passes Resolution (dpi)			6 passes Bk, Y: 600 x 1200 M, C, Pm, Pc: 600 x 600	8 passes Bk, Y: 600 x 200 M, C, Pm, Pc: 600 x600	
Photo Paper Plus Glossy (PP-101/ SG-101/ KM-101/ MM-101)	No. of passes Resolution (dpi)			6 passes Bk, Y: 600 x 1200 M, C, Pm, Pc: 600 x 600	8 passes Bk, Y: 600x1200 M, C, Pm, Pc: 600x600	
Matte Photo Paper (MP-101)	No. of passes Resolution (dpi)			6 passes Bk, Y: 600 x 1200 M, C, Pm, Pc: 600 x 600	8 passes Bk, Y: 600 x 1200 M, C, Pm, Pc: 00 x 600	
Photo Paper Plus Doble Sided (PP-101D)	No. of passes Resolution (dpi)			6 passes Bk, Y: 600 x 1200 M, C, Pm, Pc: 600 x 600	8 passes Bk, Y: 600 x 1200 M, C, Pm, Pc: 600 x600	
Other Photo Paper *	No. of passes Resolution (dpi)				8 passes Bk, Y: 600 x 1200 M, C, Pm, Pc: 600 x 600	

*: iP6000D only

3-3 Resolution in Duplex Printing

Paper type		Quality level 5	Quality level 4	Quality level 3	Quality level 2	Quality level 1
plain paper	No. of passes Resolution (dpi)	1 pass Bk: 300 x 300 Y, M, C: 300 x 300	1 pass Bk: 300 x 300 Y, M, C: 300 x 300	2 passes Bk, Y: 600 x 1200 M, C: 600 x 600	6 passes Bk, Y: 600 x 1200 M, C: 600 x 600	
Photo Paper Plus Double Sided (PP-101D)	No. of passes Resolution (dpi)			6 passes Bk, Y: 600 x 1200 M, C, Pm, Pc: 600 x 600	8 passes Bk, Y: 600 x 1200 M, C, Pm, Pc: 600 x 600	

3-4 Resolution in Direct Printing

Paper type		Draft	High
Plain paper	No. of passes Resolution (dpi)	6 passes Bk, Y: 600 x 1200 M, C, Pm, Pc: 600 x 600	8 passes Bk, Y: 600 x 1200 M, C, Pm, Pc: 600 x 600
Photo Paper Pro (PR-101/ SG-101/ KM-101/ MM-101)	No. of passes Resolution (dpi)	8 passes Bk, Y: 600 x 1200 M, C, Pm, Pc: 600 x 600	8 passes Bk, Y: 600 x 1200 M, C, Pm, Pc: 600 x 600
Photo Paper Plus Glossy (PP-101/ SG-101/ KM-101/ MM-101/ GP-401/ EC-101/ KH-201N)	No. of passes Resolution (dpi)	8 passes Bk, Y: 600 x 1200 M, C, Pm, Pc: 600 x 600	8 passes Bk, Y: 600 x 1200 M, C, Pm, Pc: 600 x 600
Matte Photo Paper (MP-101/HR-101S)	No. of passes Resolution (dpi)	6 passes Bk, Y: 600 x 1200 M, C, Pm, Pc: 600 x 600	8 passes Bk, Y: 600 x 1200 M, C, Pm, Pc: 600 x 600

4. PHOTO DIRECT PRINT FUNCTION

4-1 Host PC Memory Card Access Function with the Memory Card Startup Utility

4-1-1 Supported memory cards

Media types compatible with the host computer memory card access function and Memory Card Direct Printing function are as follows:

- Compact Flash Card (CF1, CF2 [micro drive]) (However, 5V is not supported.)
- Smart Media Card (5V, 1M and 2M are not supported.)*1
- Memory Stick / Memory Stick PRO / MagicGate Memory Stick (For Memory Stick Duo / Memory Memory Stick PRO Duo / MagicGate Memory Stick Duo, an exclusive adapter is necessary.)* 1
- SD Card*1 (For the miniSD memory card, an exclusive adapter is necessary.)
- Multimedia Card
- xD-Picture Card (An exclusive adapter is necessary.)

*1 In the Memory Card Startup Utility, if Read/Write enabled mode is selected in “Change the drive’s read/write attribute”, the use of memory cards where the write protection is set to read-only mode is prohibited, and the operations are not assured.

4-1-2 Mounting the drive

Windows:

When the iP6000D is connected by USB cable to a host computer with the Memory Card Startup Utility installed, and the printer is powered on via the Power button, the card slot on the iP6000D is mounted in My Computer as a removable drive.

Macintosh:

When the iP6000D is connected by USB cable to a host computer with the Memory Card Startup Utility installed, and the printer is powered on via the Power button, and then a supported memory card is inserted, the card slot on the iP6000D is mounted on the desktop as a removable drive.

4-1-3 Arrangement of image files

Photo numbers are assigned in the order of index print and viewer display in which each photo was taken by a normal digital camera.

In a folder, a higher priority is placed on a file when the file name, not counting the file extension, consists of 8 characters with the latter 4 being numeric, in compliance with the DCF (Design rule for Camera File system). Files are sorted in ascending order of those 4 numeric figures.

4-1-4 Data access

For mounted cards in the iP6000D, data access to the memory card is possible by performing the usual file operations through the OS’s standard file control software (such as Explorer and Finder) and general software applications. (The same operations as with standard removable drives are possible: file reading, writing, deletion, media formatting, properties, etc.)

Note: In the Memory Card Startup Utility, when “Read Only” is selected in “Change the drive’s read/write attribute”, it is not possible to write, delete, and format the data. When Read/Write enabled mode is selected in “Change the drive’s read/write attribute”, the use of memory cards where the write protection switch is set to Read Only is prohibited.

- Memory card-supported file format: FAT16 only

(It may be possible to read/write with memory cards formatted using FAT32, NTFS, Macintosh, etc., however they are out of specifications.)

- Change of the number of files in the operation panel

When files have been added or deleted via the computer to the memory card, or the card has been formatted, the number of files in the operation panel is not updated until the memory card is removed and re-inserted.

4-1-5 Card slot attribute

The card slot attributes can be changed by operating the Memory Card Startup Utility on the host computer.

Card Slot Attribute	State
Read only	To protect the data on the memory card, writing to the memory card inserted in the card slot is prohibited. (Default setting)
Read/Write	Writing data to the memory card inserted in the card slot is allowed. (Use of memory cards where the write protection switch is set to Read Only is prohibited.) In this attribute, printing from the memory card cannot be performed.

Note: When the memory card is inserted to the printer, this attribute cannot be changed. The card slot attribute becomes Read only by soft power-on.

4-2 Memory Card Direct Printing Function

4-2-1 Print mode

Displayed images print (Photo Gallery):

Images in the memory card can easily be viewed on the LCD and printed, one by one.

In the print confirmation screen, it is possible to specify the number of copies to print.

Specify images (DPE Shop):

Specifies the number of copies to print per image. It is not possible to specify the layout such that multiple images are included in one page.

As the number of copies to print per image is specified, it is not possible to specify the number of copies in all.

Print all:

Prints all images in the memory card. If trimming is set in Photo Gallery, DPE Shop, etc. , the trimming settings are valid. In the print confirmation screen, it is possible to specify the number of copies to print.

Print index:

Prints with a layout specific to all images. In the print confirmation screen, it is possible to specify the number of copies to print.

Layout print:

Selects a layout (containing multiple images in one page), and specifies the image to print in the layout. How to specify the image can be done two ways:

(a) Incorporate all images automatically, or (b) Specify image(s) one by one. In this way, images can be selected freely and attached when making layout. In the print confirmation screen, it is possible to specify the number of copies to print.

Sticker print:

Select a layout and specify image(s) to print in the layout, and select a frame which overlays image(s). In the print confirmation screen, it is possible to specify the number of copies to print. In this mode, all items specified in paper type / settings are invalid and image correction and adjustment can not be specified as well.

Color balance:

Prints color samples of selected image(s) on a sheet of paper. (This process can be skipped.) In sample printing, it is not possible to specify the number of copies to print. After sample printing, select a favorite color tone number (displayed on UI of LCD), and print it.

In printing images other than samples, it is possible to specify the number of copies to print.

DPOF:

Performs printing according to the DPOF settings in the memory card.

It is not possible to specify the number of copies to print.

4-2-2 Print quality

In the Memory Card Direct Printing, two types (either Quality priority or Speed priority) can be selected. For the resolution for each print quality, refer to 3. PRINT MODE.

4-2-3 Supported image formats

Images in the following formats can be selected when using direct printing:

DCF, CIFF, EXIF (JPEG, Tiff), EXIF-R98, JFIF

JPEG image:

Format: Baseline DCT

Pixel sampling: 4:4:4, 4:2:2, 4:2:0

Samples per pixel: 1 or 3

Maximum pixel size: Approx. 6,400 (H) x 6,400 (V)

TIFF image:

Format: RGB uncompressed or YCC uncompressed

Pixel composition: 8 bits each (for RGB and YCC)

Note: Non-supported images will not be printed, and the image skipped (not printed).

If all images are not supported, they will not be printed and paper is ejected.

- When non-supported images are detected, "No images" is displayed on the LCD viewer.

- Examples of non-supported files (note: some files may be printed even out of the specifications):

TIFF (CMYK)

JPEG (CMYK)

TIFF (LZW compressed)

TIFF (JPEG compressed)

TIFF (ZIP compressed)

TIFF (over 5,000 pixels)

JPEG (over 5,000 pixels)

JPEG (Progressive)

JPEG (sampling ratio: 4:4:4)

TIFF (16 bit channel)

- Certain images cannot be printed although they are within image format specifications.

For an unknown reason, when a memory card containing partially-damaged data (detected by software such as ScanDisk as a "Bad Block") is inserted, and printing is attempted, there is a possibility that printing as well as some button operations may not be possible. Rectifying the Bad Block in the applicable image files through file recovery software such as ScanDisk may correct the problem.

- Data in digital camera is processed on PhotoShop6.

When the original image file taken by the digital camera is processed on PhotoShop6, as PhotoShop6 leaves the thumbnail image in the original image file without deleting it, the following phenomena occur:

- >Pre-processed data is displayed on the LCD for a moment. (In the LCD specifications, if the thumbnail image exists in the image file, the thumbnail image is displayed, and then full resolution image is displayed.)
- >In Plain paper / Standard mode in Index printing, as printing is conducted using the thumbnail image, processed images are not printed. (In High quality mode, full resolution images are printed even the thumbnail images exist, therefore processed images are printed.) In PhotoShop5.5, as the thumbnail image is deleted after processing, the above phenomenon does not appear.

4-2-4 Supported file names

DOS Ver.6.2 compliance

Hierarchies up to four layers; ex. \aaa\bbb\ccc\img.jpg, \aaa\bbb\ccc\img.tif

- Length limitation: Up to 60 characters for the file and directory name
- Extension: 3 characters (4-character extensions (JPEG/TIFF) are not supported.)

4-3 File Search

In the following explanation, “O” indicates files and directories to be searched, and “X” indicates files and directories excluded from searching. Images to be searched are .jpg and .tif files within the 4th or less layer directories, including root.

O /xxx.jpg
O /DCIM/110CANON/xxx.jpg
O /ABCD/EFGH/IJKL/xxx.jpg
X /ABCD/EFGH/IJKL/MNOP/xxx.jpg

However, the following files are excluded from searching.

- (1) Hidden files, and files under hidden directories
- (2) Files and sub-directories with THM as the top three characters, within PWRSHOT, DCIM, or DC97 directories

(To avoid duplication of thumbnail images taken by Canon digital cameras)

X /PWRSHOT/THM00001.jpg
X /DCIM/THM00002.tif
X /DC97/THM00003.jpg
X /DCIM/ABCD/THM00004.tif
X /ABCD/DCIM/THM00005.jpg
X /ABCD/DCIM/EFGH/THM00006.jpg
X /ABCD/DCIM/THMA/IMG00006.jpg

- (3) RECYCLED directory (Windows)

X /RECYCLED
X /ABCD/RECYCLED

- 4) TRASH directory (Mac OS)

X /TRASH
X /ABCD/TRASH

- (5) RESOURCE.FRK directory (Mac OS)

X /RESOURCE.FRK
X /ABCD/RESOURCE.FRK

- (6) Other directories (including sub-directories)

X MOVE&RENAME
X THEVOLUMESETTINGSFOLDER

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4-4 File Sort

Full pathnames ("/DCIM/100CANON") are sorted in alphabetical order.

If there are six directories; "/" ; "/CUSTOM" ; "/FREE" ; "/DCIM/100CANON" ; "/DCIM/101CANON" ; "/DC97/CTG_0020" , they are sorted in the following order: "/" -> "/CUSTOM" -> "/DC97/CTG_0020" -> "/DCIM/100CANON" -> "/DCIM/101CANON" -> "/FREE"

<File name sorting specifications>

Files specified in the DCF (Design rule for Camera File system) standards ("the file name with 8 characters excluding the extensions, and with the latter 4-digit figures") are sorted to the top of the list by priority.

Also, DCF files are sorted using the last 4-digits, which are recognized as a number, and sorted in ascending order. For non- DCF files, if the file name includes numbers, they are recognized as numbers, and are sorted in ascending order also.

Sorting is performed for each directory.

As the iP6000D can work with up to 999 files, the 1,000th file and later are not sorted.

Detailed sorting specifications are as follows:

File order is determined using the rules in the following order to sort from Low to High in ascending order:

A. When one is a DCF file, and the other is a non-DCF file, the DCF file is low.

eg. IMG_0001.JPG < IMG_FILE.JP

B. When both files are DCF files,

B-1. The last 4-digits (numbers) of each file name are recognized as a number, with the smaller number low. eg. IMG_0001.JPG < IMG_0002.JPG, IMG_0005.JPG < 07240010.JPG (The latter figures are 0005 and 0010.)

B-2. When the result of the comparison in B-1 above is the same, the files are then sorted in alphabetical order. eg. ABC_0001.JPG < ABD_0001.JPG
IMG_0001.JPG < IMG_0001.TIF (J is "lower" than T.)

C. When both files are non-DCF files,

C-1. From the beginning of the file name, the position of first number is detected, sorting by distance in ascending order.. eg. IMG001.JPG < IMG_001.JPG

C-2. When the result of the comparison in C-1 above is the same, numbers are sorted in ascending order. eg. IMG001.JPG < ABC002.JPG

C-3. When the result of the comparison in C-2 above is the same, the length of the numerical string is sorted in ascending order. eg. IMG001.JPG < ABC0001.JPG (The length of the former is 3, and the latter is 4.)

C-4. When the result of the comparison in C-3 above is the same, the next character is recognized as the top of the file name, and the process returns to C-1. eg. A_1_2_.JPG < A_1_2_3.JPG (as the results of the comparison in the first (1) and second (2) loops are the same, in the third loop, the distance to the next number is 0.)

C-5. When the result of repetition from C1 to C4 is the same, the files are sorted in alphabetical order, as in B-2. eg. A_1_2.JPG < A_1_2.TIF

4-5 Date Print

It is possible to print the date in the following three patterns, or to not print the date.

MM/DD/YYYY

DD/MM/YYYY

YYYY/MM/DD

However, in DPOF mode, the DPOF setting is used. For the date layout and size, refer to the print layout. The date data to be used in date print are as follows:

Print Mode	Exif file or non-Exif file	Date data to be printed
DPOF mode	--	Date in the DPOF file
Non-DPOF mode	Exif file: Creation date of the image data exists.	Date when the Exif file was created
	Non-Exif file	Updated date of the file system

4-6 Bubble Jet Direct Function

The following applies when the printer is connected to a Bubble Jet Direct-supported digital camera. For PictBridge functionality, refer to 4.7 PictBridge Function.

4-6-1 Print mode

In Bubble Jet Direct, the following print modes are selectable.

Easy print: Printing of images during reproduction of single frame or index. Standard printing only.

DPOF print: Printing with DPOF printing settings. Standard and index printing can be set.

4-6-2 Media type

Media types that can be printed in the Digital Camera Direct Printing are as follows: When the language setting on the digital camera is not set to Japanese. (Media types for overseas destinations are identical, however the panel display differs depending on the languages. The following is the display of US English.)

Paper setting in digital camera operation panel	iP6000D
Card#1	Photo Paper Pro 4" x 6" (PR-101 4" x 6")
Card#2	Photo Paper Plus 4" x 6" (PP-101 4" x 6")
Card#3	Photo Paper Plus 5" x 7" (PP-101 C 5" x 7")
LTR	Photo Paper Pro Letter (SP-101 LTR)
A4	Photo Paper Pro A4 (PR-101 A4)

When the language setting on the digital camera is set to Japanese.

Paper setting in digital camera operation panel	iP6000D
L	Photo Paper Plus L (SP-101 L)
2L	Photo Paper Plus 2L (SP-101 2L)
Postcard	Professional Photo postcard (PH-101)
A4	Photo Paper Plus A4 (SP-101)
Card*1	Professional Photo card (KM-101 and MM-101)

*1 Printing is possible only when feeding is performed from the sheet feeder.

4-6-3 Print layout

Print layout can be set to Border or Borderless in the digital camera operation panel

Easy print:

- Borderless: 1 photo
- Border: 1 photo

DPOF print

Standard:

- Borderless: 1 photo
- Border: 1 photo

Index Print:

- Same as Index mode of Memory Card Direct Printing.

4-6-4 Print quality

No. of passes: 8 passes

Resolution: Bk, Y, M, C, PM, PC: 4,800 dpi x 1,200 dpi

Bk/Y: 5 pl

M/C/PM/PC: 5 pl /2 pl (mixed)

4-6-5 Image correction function

Exif 2.2 files are processed with APP (Auto Photo Perfect), and for other files, image correction is not implemented.

Not selectable by users.

4-6-6 Maintenance

Maintenance operation of the iP6000D via the digital camera's operation panel is not possible. Maintenance operations are possible through the operation panel of the iP6000D printer even when connected to a digital camera.

4-6-7 Print date

Dates can be printed by switching the date setting on the digital camera's operation panel to "ON".

Dates cannot be printed in index printing of DPOF print mode.

4-6-8 Copies

The number of prints can be specified in both Easy Print and DPOF Print modes via the digital camera's operation panel.

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4-7 PictBridge Function

The following applies when the printer is connected to a PictBridge-supported digital camera.

(As PictBridge is enabled when both the printer and digital camera have shared functionality, some functions may not be selectable, depending on the combination of the printer and digital camera.)

For Bubble Jet Direct functionality, refer to 4.6 Bubble Jet Direct Function.

For other companies' digital cameras, refer to the camera's manual.

4-7-1 Print mode

In a PictBridge-supported digital camera, only the single frame reproduction print mode is selectable.

4-7-2 Media type

Media types that can be printed in the Digital Camera Direct Printing are as follows:

Paper setting in digital camera operation panel	iP6000D
Default	Depending on the printer setting
Photo	Photo Paper Plus Glossy
Fast Photo	Photo Paper Pro

4-7-3 Print layout

Print layout can be set to Border or Borderless in the digital camera operation panel.

However, borderless printing with plain paper cannot be performed.

4-7-4 Print quality

Print quality can be set to Standard or High.

For resolution by each print mode, refer to 3. PRINT MODE.

4-7-5 Image correction function

The following four correction functions may not be selectable by users, in some cases.

APP: ON/OFF

Viv

id Photo: ON/OFF

Noise reduction: ON/OFF

Face brightener: ON/OFF

4-7-6 Image adjustment

Brightness: -2, -1, standard, +1, +2

Contrast: -2, -1, standard, +1, +2

Color hue: Skin color red+2, red+1, non-adjustment, yellow+1, yellow+2

4-7-7 Image processing

Sepia

Simulate illustration

Non-processing

4-7-8 Maintenance

Maintenance operation of the iP6000D via the digital camera's operation panel is not possible.

Maintenance operations are possible through the operation panel of the iP6000D printer even when connected to the digital camera.

4-7-9 Print date

Dates can be printed by switching the date setting on the digital camera's operation panel to "ON"

4-7-10 Copies

The number of prints can be specified via the digital camera's operation panel

4-7-11 Digital camera's standard setting

For PictBridge-supported digital cameras, the Standard Setting is selectable in the following settings:

(When Standard Setting can be selected, printing will be performed using the printer's settings.)

Possible Standard Setting	Dependency on the printer	Setting at Printer Shipment
Paper size	Depending on the printer setting	L size
Paper type	Depending on the printer setting	Photo Paper Plus Glossy
Layout	Depending on the printer setting	Borderless
Image correction	Depending on the printer setting	Exif Print
Print date	Depending on the digital camera	Date not printed

4-8 Exclusive Processes

4-8-1 Exclusive processes in Memory Card Direct Printing and Digital Camera Direct Printing

As it is impossible to simultaneously process Memory Card Direct Printing and Digital Camera Direct Printing, the following actions are taken:

When the digital camera is connected via the digital camera connection cable:

Memory Card Direct Printing settings and operation are not possible.

Setting items are not displayed in the operation panel, and the print start button is invalid.

"Digital camera connected." is displayed on the LCD viewer.

When direct printing from the memory card:

Digital Camera Direct Printing is impossible. (Settings in the digital camera are possible.)

If Digital Camera Direct Printing print operations are attempted, an error is displayed in the digital camera.

4-8-2 Exclusive process control between direct printing and printing from the host computer

As it is impossible to simultaneously process direct printing from memory cards or digital cameras and printing from the host computer, the following actions are taken:

When printing from the host computer:

Memory Card Direct Printing and Digital Camera Direct Printing are impossible.

When printing via Memory Card Direct Printing and Digital Camera Direct Printing:

Printing from the host computer is impossible.

4-8-3 Exclusive processes in host computer memory card access and Memory Card Direct Printing

Writing of data from the host computer to the memory card, while reading image data from the memory card for direct printing is conducted as follows in order to avoid overwriting the image being printed in Memory Card Direct Printing, via the host computer.

When direct printing from the memory card:

Writing data from the host computer to the memory card is not possible. (Reading of data is possible.)

An error is displayed in the host computer at the start of data writing operations.

When writing data from the host computer to the memory card*

Direct printing from the memory card is not possible.

Even if the print start button is pressed, printing will not start.

*To write data from the host computer to the memory card, the mode needs to be changed to the Read/write mode, using the Memory Card Utility.

4-8-4 Exclusive processes between the memory card and memory card

In the card slot, there is a slot for SM, MS, and SD/MMC (used in common, however, multiple cards can not be inserted simultaneously) and a slot for a CF card.

However, even though a CF card and other card are inserted simultaneously, as one drive only is always valid, control are performed as follows:

The card inserted first has priority. Even if a card is inserted into a drive other than the current drive, this action is ignored.

When the current drive is removed, the other drive is checked. If a card is detected, the same control as when the former card is removed and a new card is inserted, is performed.

When multiple cards are inserted when the printer is powered on, the drive is checked in the order of CF, SM, MS, and SD/MMC, and the drive in which a valid card is detected becomes the current drive.

When the memory card is uninstalled from a computer, the power supply for the card with the current drive is halted, and the no card inserted status is valid. However, as long as the card is not removed from the current drive, even though another card is inserted into another drive, this action is ignored.

4-9 LCD Viewer

The iP6000D LCD viewer is a 2.5 inch (176 x 128 pixel, 65,000 colors) color LCD, and realizes two functions: image display and operation display with the operation panel. Operations are carried out by the user selecting the desired menu item from within a nested menu displayed on the LCD viewer, and by pressing the OK button, proceeding with the next step. During the process, if an image needs to be selected, it can be displayed on the LCD viewer, and the selected image can be changed by using the left and right cursor buttons.

To protect the LCD viewer and preserve the backlight life, when no button operation has occurred for five minutes, the LCD viewer is powered off. When any key other than the Power and Resume buttons and Paper Feed switch is pressed with the LCD backlight off, the LCD viewer turns on, however the original function of the key is invalid.

The content displayed on the LCD viewer changes depending on the user's operation.

Eg. When printing is being performed from the PC, the LCD viewer displays "Printing from the computer", when a digital camera is connected, the LCD shows the printer status by displaying "Digital camera connected", and when an error occurs during printing, such as the paper out error, the LCD shows the error by displaying "No paper. Load paper and press Resume".

When Card Direct Printing is performed, the LCD viewer becomes the operation display of the operation panel.

4-10 Card Slot-related Operations and Display

4-10-1 Timing and precautions when removing the memory card

The following timing and precautions are suggested to protect the memory card data.

- Remove the memory card while the Access lamp is not lit. (If the memory card is removed while the Access lamp is blinking or on, the data on the card is not assured.)
- When the printer is not connected to a host computer, power off the printer with the Power button and after the Access lamp is not lit, remove the memory card.
- Remove the memory card together with the adapter, not the memory card only.
- When the printer is connected to the host computer, from the host computer, select "Eject disk" to turn the Access lamp off, and then remove the memory card. (Turning off the printer also turns off the Access lamp, however, the incorrect disk removal warning message may be displayed in the connected host computer.)

When using Windows, and the memory card drive is displayed in Explorer, close the window prior to removing the memory card. (If the window is not closed prior to removing the memory card, the following phenomenon will appear in the host computer.)

WindowsMe/98: A blue background screen appears. This can be recovered by following the instructions in the display.

Windows2000/XP: A warning is displayed, and the "Eject disk" operation cannot be executed.

4-10-2 Power supply/cut to the memory card

1) Power supply to the memory card

When any of the following events occurs, the memory card detection process starts, and if an accessible memory card is recognized, power supply to the memory card starts. (The Access lamp lights.)

- a. When a memory card is inserted into the card slot while the printer is on.
- b. When the printer is powered on while a memory card is in the card slot.
- c. When the USB bus is reset while the printer is on with a memory card in the card slot. (When the host computer is already on, and is connected to the printer via USB, or when the host computer is restarted.)

2) Power cut to the memory card

When any of the following events occur, power supply to the memory card is cut. (The Access lamp turns off.)

- a. When the printer is turned off by pressing the Power button.
However, power is supplied in the following instances even if the printer is not on:
 - From the time that a memory card not-removable command is received from the host computer until a removal permission command is received, or the USB cable is disconnected.
 - From the time that a writing command is received from the host computer to the memory card until writing is completed.
- b. When the memory card is removed from the card slot by pressing the Eject Button.
- c. When the following "Memory card removal command" is implemented on the connected host computer.

4-10-3 Memory card removal command from the host computer

When the following operation is performed on the host computer, it is detected that the memory card removal command has been implemented, and power supply to the memory card is cut.

Select "Change the driver's read/write attribute" in the Memory Card Startup Utility.

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4-11 DPOF Settings in the Memory Card Direct Printing Function

4-11-1 Supported DPOF functions

DPOF Ver. 1.0 is supported.

The following essential functions as a DPOF printer are supported.

- Standard printing
- No. of copies to be printed (1 page)
- Image format (CIFF, EXIF (JPEG), JFIF)
- Designation of images to be printed (relative path name)

The following optional functions as a DPOF printer are supported.

- Index printing
- No. of copies to be printed (2 pages or more)
- Image format (EXIF (TIFF)) - Printing of designated characters (dates, photo numbers)

If both dates and photo numbers are selected, one of the two will be printed.

Note: The CMT value indicating the comment and image title is not supported.

The following optional functions as a DPOF printer are not supported.

- Image format (FlashPix)
- Designation of paper types
- Trimming
- Rotation of images

4-11-2 Print specifications in DPOF print mode

Photo number designation:

Only photos designated in the DPOF file can be printed, and designation via the operation panel is impossible.

Paper type:

The paper type can be selected from the operation panel.

Layout:

Images designated for Standard printing in the DPOF file are printed in the designated order in the layout designated through the operation panel.
Images designated for index printing will be printed using the printer's index layout, regardless of the specified layout.

No. of copies to be printed:

The number of copies cannot be designated from the operation panel. Only the number of copies designated in the DPOF file is printed.

Image correction:

Automatic image correction can be designated from the operation panel.

Quality:

The print quality can be designated from the operation panel.

Date print:

Date print cannot be designated from the operation panel in DPOF mode, and printing is implemented using the file's DPOF settings.
Date formats are dependent on the digital camera.

4-12 Print Layout (Details)

4-12-1 Selectable layout in Memory Card Direct Printing

<Overseas>

- Index printing

LTR/A4: 80 photos, 4" x 6": 24 photos, 5" x 7": 35 photos

- Layout printing

2/4/8 photos with borderless/bordered (LTR, A4*1, 4" x 6", 5" x 7")

Postcard (with ruled line) with borderless/bordered (LTR, A4*1, 4" x 6", 5" x 7")

Album 4 photos with either side (LTR, A4*1, 4" x 6", 5" x 7")

Mix three types (LTR, A4)

- Single frame printing (= single image / page)

A4/LTR with borderless*1/bordered, 4" x 6" with borderless/bordered, 5" x 7" with borderless/bordered

<Japan>

- Index printing

L: 15 photos, 2L: 35 photos, Post card: 24 photos, A4: 80 photos, LTR/A4: 80 photos, Name card/Card: 6 photos*2, Panorama: 30 photos)

- Layout printing

2/4/8 photos with borderless/bordered (L, 2L, Post card, A4*1, Panorama, Name card/Card*2)

Postcard (with ruled line) with borderless/bordered (L, 2L, Post card, A4*1, Panorama, Name card/Card*2)

Album 4 photos with either side (L, 2L, Post card, A4*1, Panorama, Name card/Card*2)

Mix three types (A4)

- Photo Stickers*2

2/4/9/16 seals

1/5/6/7 seals (for free-cut)

- Single frame printing (= single image / page)

L with borderless/bordered, 2 L with borderless/bordered, Post card with borderless/bordered, A4 with borderless*1/bordered, and Name card / Card*2 with borderless/bordered

*1 Plain paper is not selectable.

*2 Printing is possible only when paper feeding is performed from the sheet feeder.

4-12-2 Selectable layout in Digital Camera Direct Printing

When the language setting on the digital camera is not set to Japanese.

(Media types for overseas are common for all markets, however the panel display differs depending on the languages.)

The following is the display of US English.)

- Index printing

LTR/A4: 80 photos, 4" x 6": 24 photos, 5" x 7": 35 photos

- Single frame printing

A4/LTR with borderless/bordered, 4" x 6" with borderless/bordered, 5" x 7" with borderless/bordered

When the language setting on the digital camera is set to Japanese

- Index printing

L: 15 photos, 2L: 35 photos, Post card: 24 photos, A4: 80 photos, Name card/Card: 6 photos*1

- Single frame printing

L with borderless/bordered, 2 L with borderless/bordered, Post card with borderless/bordered, A4 with borderless*2/bordered, Panorama with borderless/bordered, Name card/Card*1 with borderless/bordered

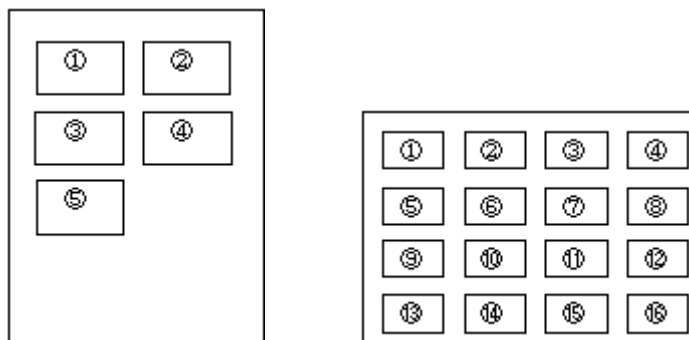
*1 Printing is possible only when paper feeding is performed from the sheet feeder.

*2 Plain paper is not selectable.

4-12-3 Layout in Memory Card Direct Printing

Layout of multiple images is arranged as shown below.

- Images are arranged horizontally, from left to right, top to bottom.

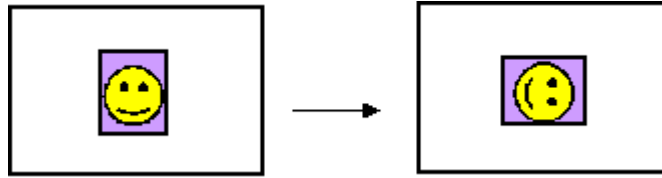


- When the number of photos designated requires less space than the layout provides, nothing is printed in the remaining spaces.

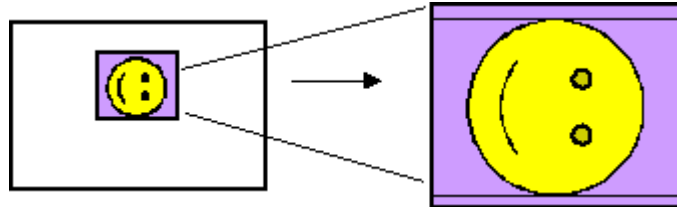
4-12-4 Layout and image size

Processing in borderless printing (including 2 photos / 4 photos / 8 photos / postcard with borderless)

- 1) Rotate the image data by 90 degrees (if necessary) to align the long edges of the image with those of the paper.



- 2) Enlarge (or reduce) the image data while maintaining the image's proportions so as to align either the long or short edges of the image with those of the paper, so that blank space in the paper is completely eliminated.



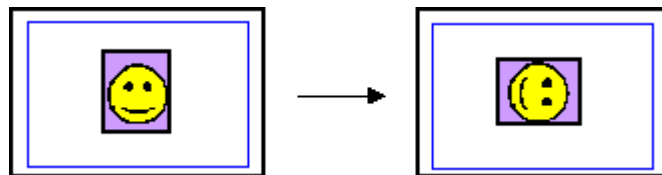
- 3) Any image data extending beyond the printing area will be cut off and not printed. (The discarded image data will be equally divided between top and bottom, or left and right.)



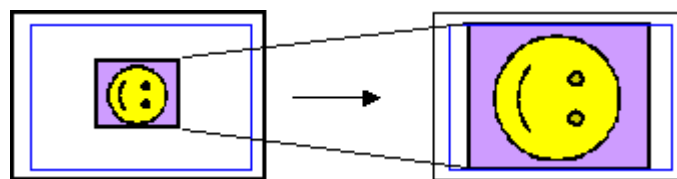
Note: As printing of the image is performed to an area 5 mm larger than that of the paper size, the perimeter of the image is further trimmed by a few millimeters.

Processing in printing in print area without image trimming

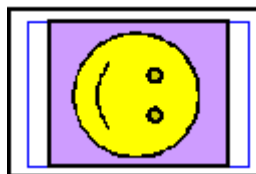
- 1) Rotate the image data by 90 degrees (if necessary) to align the long edge of the image data with that of the paper.



- 2) Enlarge (or reduce) the image data while maintaining the image's proportions so as to align either the long or short edges of the image with those of the print area (blue line), so that no image data is discarded.



- 3) The area without any image data will be blank. (Empty areas will be equally divided between left and right, or top and bottom.)



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← <2-4. PHOTO DIRECT PRINT FUNCTION (11)~(12)> →

4-13 Date Print Specifications

4-13-1 Date print in Memory Card Direct Printing

1) Settings and data format

Printing in DPOF (Index and Standard) mode:

When date print is set to ON in the DPOF settings, the date is printed using the character strings in the DPOF settings, regardless of the date setting in the printer's operation panel.

The number of characters: Up to 24 (for Standard) / Up to 12 (for Index)

Printing in other modes:

When the date setting is selected from the Date tab in Settings on the operation panel, the Exif tag information in the file is printed in the following order:

Year (four digits), month (two digits), and date (two digits), with date elements separated by "/".

If the Exif tag information does not exist, or does not have correct information, Use the date when the file was updated.

Ex. 1999/06/30 06/30/1999

2) Print location, color and size

Printing in Index mode:

Location: Below the image (under the photo number)

Color: Black

Size: Fixed size

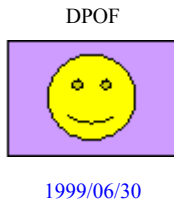


Printing in DPOF (Index) mode:

Location: Below the image

Color: Black

Size: Fixed size



Printing in DPOF (Standard) and other modes:

Location: Lower right, in the image (In images with an aspect ratio other than 4:3, the date is moved such that the relative distance from the lower right to the image date is the same as when a 4:3 ratio is used.)

Color: Orange

Size: According to the layout

Example 1



Example 2



4-13-2 Date print in Digital Camera Direct Printing

1) Settings and data format

When date print is set in the digital camera, the date is printed using the character strings sent by the digital camera. However, in Bubble Jet Direct index printing using the digital camera, the date will not be printed, regardless of the settings.

2) Print location, color and size

Printing in easy print and DPOF (Standard) modes:

Location: Lower right, in the image (In images with an aspect ratio other than 4:3, the date is moved such that the relative distance from the lower right to the image date is the same as when a 4:3 ratio is used.)

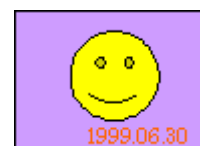
Color: Orange

Size: According to the layout

Printing in DPOF (Index) mode: DPOF

Date is not printed, even when set in the digital camera's DPOF settings.

Example



4-14 Photo Number Printing Specifications

4-14-1 Photo number printing in Memory Card Direct Printing

1) Data format

Printing in Index mode:

Photo number (3-digit number) and DCF number (8-character number (***.****) displayed on the operation panel) are printed. (Printed without exception)

Printed characters consist of 3 characters + space + 8 characters.

Printing in DPOF (Index and Standard) mode:

When the file number print is set to ON in the DPOF settings, the file number character string set in the DPOF settings is printed, as is. (However, when date print is selected, the file number will not be printed.)

The number of characters: Up to 24 (for Standard)

Up to 12 (for Index)

Printing in other modes:

The photo number will not be printed.

Printing in Index mode:

Location: Below the image (Above the date)

Color: Black

Size: Fixed size

Index mode Index printing



001 100-0001
1999/06/30

Printing in DPOF (Index) mode:

Location: Below the image

Color: Black

Size: Fixed size

DPOF mode Index printing



100-0001

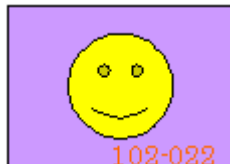
Printing in DPOF (Standard) mode:

Location: Lower right, in the image (In images with an aspect ratio other than 4:3, the photo number is moved such that the relative distance from the lower right to the image photo number is the same as when a 4:3 ratio is used.)

Color: Orange

Size: According to the layout

DPOF mode Standard printing



102-022

Printing in other modes:

The photo number will not be printed.

4-14-2 Photo number printing in Digital Camera Direct Printing

1) Data format

The photo number will not be printed, even when set in the DPOF settings.a)

2) Print location, color and size

The photo number will not be printed.

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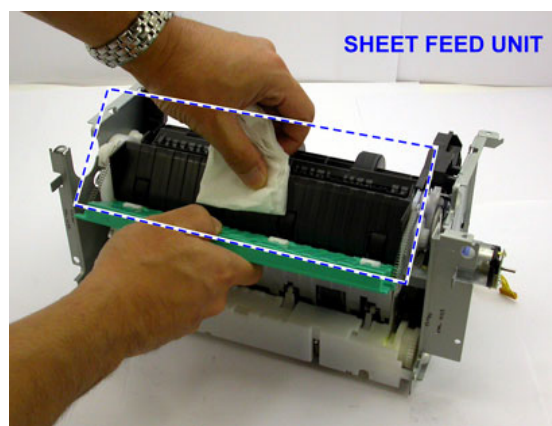
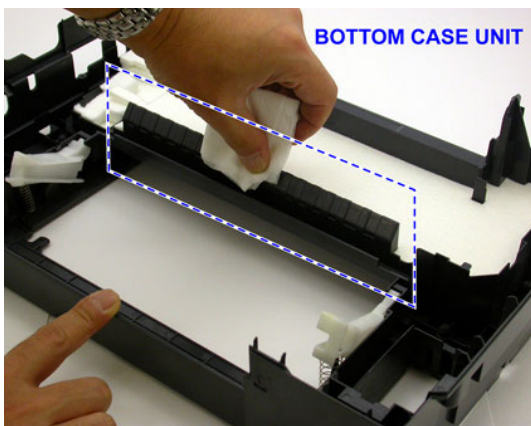
5. FAQ (Problems Specific to the iP6000D and Corrective Actions)

No.	*	Function	Phenomenon	Condition	Cause	Corrective action	Possible call or complaint
1	C	Print results	Margin (approx. 0.3mm)	<ul style="list-style-type: none"> - Paper feeding from the cassette, Photo Paper Plus Double Sided (A4), borderless printing, printing on the back side of paper - In the low temperature and low humidity environment 		<ul style="list-style-type: none"> - In the printer driver, increase the amount of extension. - Change the paper feeding method from the cassette to the auto sheet feeder. 	<ul style="list-style-type: none"> - A margin appears on printouts. - Paper feeds at an angle.
2	B	Print results	<ul style="list-style-type: none"> - Skewed paper feeding - Printing on the platen 	<ul style="list-style-type: none"> - Plain paper - In the high temperature and high humidity environment 		<ul style="list-style-type: none"> - If paper is curled, straighten it. - Try printing on the other side of paper. 	<ul style="list-style-type: none"> - Paper feeds at an angle. - Printing is performed on the platen. - The back side of paper gets smeared.
3	B	Print results	Variation in the top of form accuracy	<ul style="list-style-type: none"> - A5 or legal size - In the low temperature and low humidity environment - Not solved even when the number of sheets stacked in the auto sheet feeder or the cassette is reduced 	Due to decrease of paper feed capability in the low temperature and low humidity environment	<ul style="list-style-type: none"> - Set the top margin to 4mm or more. 	<ul style="list-style-type: none"> - Print start position varies.
4	B	Print results	<ul style="list-style-type: none"> - Skewed paper feeding - Margin 	<ul style="list-style-type: none"> - Photo Paper Plus Double Sided - 2L size (Japan only) 		<ul style="list-style-type: none"> - In the printer driver, increase the amount of extension. - Change the paper feeding method from the cassette to the sheet feeder. 	<ul style="list-style-type: none"> - A margin appears on printouts. - Paper feeds at an angle.
5	C	Safety during transportation	Carriage lock lever dislocation	<ul style="list-style-type: none"> - With the print head and ink tanks installed - The phenomenon occurred in the freight handling test. 		When returning the repaired printer to the user, insert the fixing tool (A4 plain paper folded 5 times) between the main case and the carriage, and fix it with tape. [See Part 1, 4. PRINTER TRANSPORTATION]	During transportation for return after repair, Ink dries, and no ink is ejected.
6	A	Print results	Soiling on the back side of paper (lines or streaks parallel to the paper feed direction)	<ul style="list-style-type: none"> - After continuous borderless printing of small sized paper (such as 4 x 6), when a larger sized paper (such as A4) is printed. - With Photo Paper Plus Double Sided or postcards, the phenomenon is likely to be noticeable and to be complained of by users, as printing is performed on both sides of such paper. 	In borderless printing, printing is performed to the size slightly larger than the paper size, and ink off the paper is absorbed by the platen's ink absorber. Absorbed ink may attach to the platen rib(s) after several dozen sheets are printed, causing soiling at the leading edge of paper or on the back side of paper.	<ol style="list-style-type: none"> 1. Perform Bottom plate cleaning (from the printer driver) up to 3 times*1. <p>*1: Change the paper in each Bottom plate cleaning. The cleaning can end when paper does not get any soiling.</p> <ol style="list-style-type: none"> 2. If soiling on the paper still remains after 3 times of Bottom plate cleaning, wipe the platen rib(s) and their surroundings with a cotton swab. 	<ul style="list-style-type: none"> - Paper gets smeared. - The back side of paper gets smeared.
7	B	Print results	Soiling on paper in automatic duplex printing (lines or streaks perpendicular to the paper feed direction)	<ul style="list-style-type: none"> - Automatic duplex printing (Photo Paper Plus Double Sided, postcards, plain paper) 	On the rib(s) inside the sheet feed unit used for duplex printing, ink mist may accumulate, smearing paper.	<p>Temporary operational solution:</p> <p>Cancel automatic duplex printing, and manually print each side of paper.</p> <p>Cleaning by user:</p> <ol style="list-style-type: none"> 1. Perform Bottom plate cleaning (from the printer driver) up to 3 times*1. <p>*1: Change the paper in each Bottom plate cleaning. The cleaning can end when paper does not get any soiling.</p> <ol style="list-style-type: none"> 2. If soiling on the paper still remains after 3 times of Bottom plate cleaning, wipe the platen rib(s) and their surroundings with a 	<ul style="list-style-type: none"> - Paper gets smeared. - The back side of paper gets smeared. - Even after Bottom plate cleaning was performed, and the platen ribs were cleaned with cotton swab, paper gets smeared.

						cotton swab. If the phenomenon persists after conducting 1 and 2, servicing is required. Service: Wipe any soiling or dirt off from the sheet feed unit and the bottom case unit ribs*2.	
8	C	Print results	Scratches on paper - PP-101D, PP-101, PR-101, SG-101, etc. - Paper feeding from the cassette - Multiple number of sheets loaded	- Paper is scratched. - Marks appear on printed paper.	- Change the paper feeding method from the cassette to the sheet feeder. - If automatic duplex printing is performed, cancel it, and, by setting only a single sheet of paper in the auto sheet feeder, manually print each side of paper.	Scratches on the PF return lever due to paper feeding from the cassette, and duplex printing path.	
9	B	Print results	Soiling on the print surface of a page - PSHR, KM-101 - PR-101 (L, 4" x 6")	Paper is curled	- Widen space between paper and paper - Flatten paper	Paper is soiled.	
10	-	Paper feeding (specifications)	Credit/name card - sized paper can not be ejected. - KM-101, MM-101 - GP-401 Credit Card	Paper is set sideways in the sheet feeder.	Set paper vertically in the sheet feeder. *This paper size can be fed by setting paper vertically in the sheet feeder. Feeding through the cassette is not possible.)	Paper is not ejected.	
11	-	Print result (specifications)	To change color hue at Direct Print, as color hue is red-tinged.	At Direct Print	Color hue is different from the desired colors. Perform color adjustment on the operation panel.	Color hue is not normal.	

*1: When paper is not soiled, cleaning is complete. Change paper each time cleaning is performed.

*2: Locations to clean in servicing when soiling on paper in automatic duplex printing persists:



* Occurrence level:

- A: The symptom is likely to occur frequently. (Caution required)
- B: The symptom may occur under certain conditions, but likeliness is assumed very low in practical usage.
- C: The symptom is unlikely to be recognized by the user, and no practical issues are assumed.

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← <Part 2: 5. FAQ> →

6. PIXMA iP6000D Specifications

<Printer>

Type	Desktop serial color bubble jet printer			
Paper feeding method	Auto sheet feed (sheet feeder, cassette, automatic duplex printing, CD-R printing*1)			
Resolution	4,800 dpi x 1,200 dpi (Max.)			
Throughput (Target value)		Draft	Standard	
	BK (Fine Black)	11 ppm	4.3 ppm	
	Color (Fine Color)	9 ppm	3.0 ppm	
Printing direction	Bidirectional, uni-directional			
Print width	Max. 203.2 mm (216 mm in borderless printing)			
Interface	USB 2.0 Full Speed, Camera Direct Print Port, IrDA 1.2 (supports only JPEG files)			
ASF stacking capacity	Plain paper (65 g/m ²): Max. 13 mm (Approx. 150 sheets)			
Paper weight	64~105g/m ²			
Detection functions	-Cover open		-Presence of print head	
	-Remaining ink amount (optical / dot count)		-Printing position	
	-Paper presence		-Paper end sensor	
	-Waste ink amount		-Internal temperature	
	-Pick-up roller		-Paper feed roller position	
	-Carriage position		-Head-to-paper distance	
	-Supported camera direct printing device		-Presence of CD-R	
	-Supported paper size for duplex printing		-Presence of memory card	
Acoustic noise (Highest print quality)	- Highest print quality settings: Approx. 35 dB - Quiet mode: Approx. 32 dB			
Environmental requirements	During operation	Temperature	5C to 35C (41F to 95F)	
		Humidity	10%RH to 90%RH (no condensation)	
	Non operation	Temperature	0C to 40C (32F to 104F)	
		Humidity	5%RH to 95%RH (no condensation)	
Power supply	Power supply voltage, frequency	Power consumption	Standby	Power-off
	AC 110 to 120 V, 50/60Hz	Approx. 15 W	Approx. 3 W	Approx. 1 W
	AC 220 to 240 V, 50/60Hz	Approx. 15 W	Approx. 3 W	Approx. 1 W
External dimensions	Printer:			
	With the paper support and output tray retracted:		Approx. 429 (W) x 312 (D) x 195 (H) mm	
	With the paper support and output tray extended:		Approx. 429 (W) x 548 (D) x 323 (H) mm	
Weight	Approx. 7.0 kg, not including print head and optional units			
Related standards (Proposed) (Printer, Adapter)	Electromagnetic radiance: VCCI, FCC, IC, CE Mark, Taiwan RPC, C-Tick, CCC (EMC), Korea MIC, Gost-R			
	Electrical safety: Electrical Appliance and Material Safety Law (DENAN), UL, C-UL, CB Report, CE Mark, GS, Gost-R, FT, SASO, CCC, SPRING, Korea EK, IRAM (Argentina)			
	Environmental regulations: RoHS (EU), WEEE (EU), Korea Package Recycle Law, Green Point (Germany), Energy Star, Eco Mark, Law on Promoting Green Purchasing			
Serial number location	On the carriage flexible cable holder (visible when the access cover is open).			
Remaining ink amount detection	Available (automatic detection by optical method and dot count, enabled at default)			
Paper type detection	Not available			
Print head alignment	Available (automatic or manual alignment via the driver utility (automatic alignment at default) or the operation panel on the printer in Camera Direct Printing)			

*1: Only for CD-R printing supported regions

<Photo Direct Printing>

Memory card drive	Supported memory card	Compact Flash Type I/II, Microdrive, SmartMedia Card, Memory Stick, Memory Stick PRO, MagicGate Memory Stick, SD Card, MultiMedia Card, xD-Picture Card*, miniSD memory card*, Memory Stick Duo*, Memory Stick PRO Duo*, MagicGate Memory Stick Duo*
Storage function	Supported OS	Windows Me / 98 / 2000 / XP Mac OS 9.x/10.2.1 or later
	Utility	Storage utility packaged with printer
	Function	Read / Write

Direct memory card print function	Operation panel	2.5 Color LCD, 19 keys
	File format	JPEG (DCF, CIFF, Exif 2.2 or prior, JFIF), TIFF (Exif compliant), DPOF compliant
	Supported print paper	[See 3-4. Print Media Specifications]
	Print quality	Image quality/speed prioritized
	Image correction function	APP, VIVID, image noise reduction, Face brightener
	Image adjustment function	Brightness, contrast, hue (flesh color)
	Image processing function	Sepia and illustrated touch
	Image retrieval function	Available (date)
	DPOF version	Ver. 1.00 compliant
	Print layout	- Image/image specification/full-image printing: 1 page (bordered/borderless *only bordered for plain paper)
		- DPOF printing: 1 page (bordered/borderless) 6, 15, 24, 35, 80 images
		- Index printing: 6, 15, 24, 35, 80 images
		- Layout printing: 2, 4, 8 images (bordered/borderless) Mix 3 types (for A4/LTR)
		- Photo Stickers: 2, 4, 9, 16 seals 1, 5, 6, 7 seals (for free-cut)
Resolution	Max. 1,200 x 1,200 dpi	
Throughput	Approx. 1 minutes 50 seconds, with the following conditions and settings: - Image data from a 3 mega-pixel digital camera - Process from pressing the printing start button to ejecting paper	
Direct camera print function	Supported digital cameras	Digital cameras and digital video cameras supporting Bubble Jet Direct or PictBridge
	Supported print paper	[See 3-4. Print Media Specifications]
	Print layout	- 1 paper (bordered/borderless) - Index printing: 2, 4, 9, 16 images (bordered)
	Resolution	Max. 1,200 x 1,200 dpi
	Throughput	Approx. 1 minute and 50 seconds, with the following conditions and settings: - Image data from a 3 mega-pixel digital camera - Process from pressing the printing start button to ejecting paper

<Print Head>

	Print head
Type	Single head with 6 removable ink tanks (each color)
Print head	BK/Y: 256 nozzles per color (128 nozzles in 2 vertical lines (5 pl), 1,200dpi) C/M/PC/PM: 128 nozzles per color (5 pl) + 128 nozzles per color (2pl), 1,200 dpi 5 pl (black, yellow, cyan, magenta, photo cyan, photo magenta) 2 pl (cyan, magenta, photo cyan, photo magenta)
Ink color	Dye-based black, cyan, magenta, yellow, photo cyan, photo magenta
Ink tank	BCI-6 BK/C/M/Y/PC/PM
Weight (Net)	Print head, approx. 62 g Ink tanks (6 colors), approx. 168 g
Supply method	As a service part (not including ink tanks)
Part number	QY6-0050-000

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4. Print Media Specifications

(1) Plain paper / specialty paper

The following types of paper are recommended:

Type	Name	Size	Paper feeding method	ASF stacking capacity (max.)	Camera Direct Printing	Card Direct Printing	Print Beam
Plain paper (64 to 105 g/m ²)		A4, LTR	ASF, Cassette	13 mm		Yes	Yes
		B5, A5, LGL	ASF, Cassette	13 mm			
Super White Paper	SW-201	A4, LTR	ASF, Cassette	13 mm			
High Resolution Paper	HR-101N	A4, LTR	ASF, Cassette	80 sheets		Yes	Yes
Glossy Photo Paper	GP-401	A4, LTR	ASF, Cassette	10 sheets	Yes	Yes	Yes
	GP-401 4x6	101.6 x 152.4 mm	ASF, Cassette	20 sheets	Yes	Yes	Yes
	GP-401 Credit Card	54 x 86 mm	ASF	20 sheets	Yes* ¹	Yes	Yes
Photo Paper Pro	PR-101	A4, LTR	ASF, Cassette	10 sheets	Yes	Yes	Yes
	PR-101 4x6	101.6 x 152.4 mm	ASF, Cassette	20 sheets	Yes	Yes	Yes
Photo Paper Plus Glossy	PP-101	A4, LTR	ASF, Cassette	10 sheets	Yes	Yes	Yes
	PP-101 4x6	101.6 x 152.4 mm	ASF, Cassette	20 sheets	Yes	Yes	Yes
	PP-101 5x7	127 x 178 mm	ASF, Cassette	10 sheets	Yes	Yes	Yes
Matte Photo Paper	MP-101	A4, LTR	ASF, Cassette	10 sheets		Yes	Yes
Photo Paper Plus Semi-gloss	SG-101	A4, LTR	ASF, Cassette	10 sheets	Yes	Yes	Yes
	SG-101 4x6	101.6 x 152.4 mm	ASF, Cassette	20 sheets	Yes	Yes	Yes
Photo Paper Plus Double Sided	PP-101D	A4, LTR	ASF, Cassette	10 sheets			
	PP-101D 5x7	127 x 178 mm	ASF, Cassette	10 sheets			
Transparency	CF-102	A4, LTR	ASF, Cassette	30 sheets			
T-shirt transfer	TR-301	A4	ASF, Cassette	1 sheet			
Photo Stickers	PS-101	148 x 100 mm	ASF	1 sheet	Yes* ¹	Yes	Yes
Envelope	COM#10	241 x 106 mm	ASF, Cassette	10, 5 envelopes			
	DL-size	220 x 110 mm	ASF, Cassette	10, 5 envelopes			

*1: Supported only by PictBridge (not supported by Bubble Jet Direct)

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 <3-4. PRINT MEDIA SPECIFICATIONS>