PIXMA iP6600D

SERVICE MANUAL

Revision 0

QY8-13AB-000

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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 iP6600D:

Part 1: Maintenance
Information on maintenance and troubleshooting of the PIXMA iP6600D

Part 2: Technical Reference
New technology and technical information such as FAQ's (Frequently Asked Questions) of the PIXMA iP6600D

Part 3: Appendix
Block diagrams and pin layouts of the PIXMA iP6600D

Reference:
This manual does not provide sufficient information for disassembly and reassembly procedures. Refer to the graphics 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 / DVD correction value	None.	1 min.
Destination settings (EEPROM settings)	At logic board ass'y replacement	To set the destination.	None. Perform in the service mode.	1 min.
LCD language settings	At logic board ass'y replacement	To set the language to be displayed on the LCD.	None.	1 min.
Waste ink counter resetting (EEPROM settings)	- At logic board replacement - At waste ink absorber replacement	To reset the waste ink counter.	None. Perform in the service mode.	1 min.
CD / DVD detection sensor light volume correction*1	- At logic board replacement - At carriage unit replacement	To correct the light volume for the CD / DVD detection sensor.	None. (Automatically performed in the service test print)	2 min.
Ink system function check	- At logic board replacement - At platen unit replacement - At carriage unit replacement	To maintain detection functionality for presence of the ink tanks and each ink tank position.	None. Perform in the service mode.	1 min.
Paper feed motor position adjustment*2	At paper feed motor replacement	To adjust the belt tension. (Position the paper feed motor so that the belt is stretched tight.)	None.	5 min.
Grease application	- At carriage unit replacement - At PR shaft ass'y replacement - At CL base or CL gear replacement	- To maintain sliding properties of the carriage shaft and the lift cam shaft. - To protect the printer's sliding portions (gears).	- FLOIL KG-107A (QY9-0057)	1 min.

Note: DO NOT loosen the red screws at both ends of the carriage shaft, securing the print head position, as they are not re-adjustable.

*1: Only for CD / DVD printing supported regions.

*2: 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.	- Printer buttons (automatic / manual) - Computer (automatic settings via the printer driver)	3 min.
Print head cleaning	When print quality is not satisfying.	To improve nozzle conditions.	- Printer buttons - 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.	- Printer buttons - 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.	Printer buttons	2 min.
CD / DVD print position adjustment	At CD / DVD printing, when necessary.	To correct CD / DVD print position.	Computer (application software)	5 min.
Bottom plate cleaning	When the back side of the paper is smeared.	To clean the platen ribs.	- Printer buttons - Computer (settings via the printer driver)	1 min.
LCD contrast adjustment	When the LCD contrast is not desirable.	To set the desirable contrast.	- Printer buttons	1 min.
ASF sub- roller cleaning	When the paper fed from the ASF is smeared due to ink mist attached to the ASF sub-rollers.	To clean the ASF sub-rollers.	- Plain paper - Printer buttons (paper feed roller cleaning)	1 min.

1-3. Product Life

(1) Printer

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

(I) Print volume: 10,000 pages

Black	1,500 character pattern	2,000 pages
Color	A4, 7.5% duty per color pattern	1,500 pages
	A4, photo, borderless printing	1,500 pages
	4 x 6, photo, borderless printing	4,500 pages
	Postcard, photo, borderless printing	500 pages

(II) Years of use: 5 years of use

(2) Print head

Print volume: 10,000 pages

Black	1,500 character pattern	2,000 pages
Color	A4, 7.5% duty per color pattern	1,500 pages
	A4, photo, borderless printing	1,500 pages
	4 x 6, photo, borderless printing	4,500 pages
	Postcard, photo, borderless printing	500 pages

(3) Ink tank (target value)

Pattern	Ink tank used	Print yield
Black text	CLI-8BK	Approx. 480 pages
Color chart	CLI-8BK	Approx. 970 pages
	CLI-8Y	Approx. 460 pages
	CLI-8M	Approx. 520 pages
	CLI-8C	Approx. 760 pages
Photo chart	CLI-8BK	Approx. 1,500 pages
	CLI-8Y	Approx. 320 pages
	CLI-8M	Approx. 670 pages
	CLI-8C	Approx. 1,000 pages
	CLI-8PM	Approx. 140 pages
	CLI-8PC	Approx. 200 pages

Black text: When printing the Canon standard pattern (1,500 characters per page) on A4 size plain paper, with the default settings in the Windows XP driver, using Word 2003.

Color chart: When printing the ISO/JIS-SCID N5 pattern on A4 size plain paper in bordered printing, with the default settings in the Windows XP driver, using Photoshop 7.0.

Photo chart: When printing the Canon standard pattern on 4" x 6" Photo Paper Plus Glossy in borderless printing, with the default settings in the Windows XP driver, using Windows XP Photo Printing Wizard.

The print yield in the table above is an average value measured in continuous printing, using the ink tank immediately after it is unsealed, until the ink is out. Ink yield may vary depending on texts and photos printed, application software, print mode, and type of paper used.

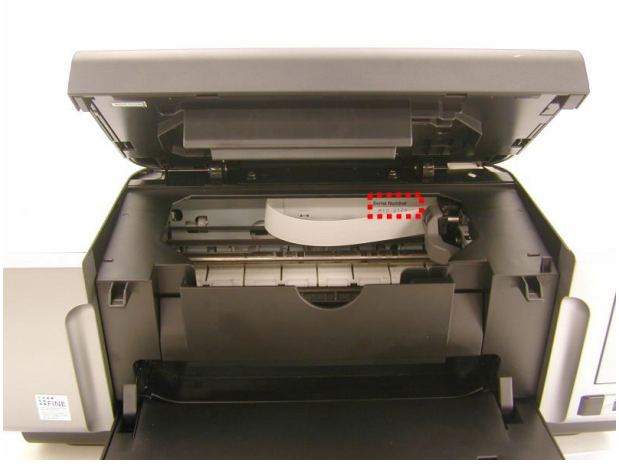
When the printer is turned on and while printing, each ink may be used for protecting the print head and maintaining print quality.

1-4. Special Tools

Name	Tool No.	Application	Remarks
FLOIL KG-107A	QY9-0057-000	To be applied to the sliding portions of the carriage shaft and lift cam shaft.	In common with the S500 and S520.

1-5. Serial Number Location

On the carriage flexible cable holder (visible on the left of the carriage after the printer is turned on, and the panel cover is opened).



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<Part 1: 1. MAINTENANCE>

2. LIST OF ERROR DISPLAY / INDICATION

Errors and warnings are displayed by the following ways:

1) Operator call errors are indicated by the Alarm LED lit, and the error and its solution are displayed on the LCD in text and by icon.
2) Warnings are displayed on the printer driver Status Monitor.
3) Error codes are printed in the "operator call/service call error record" area in EEPROM information print.

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

Error [Error code]	Message on the LCD	Solution	Remarks
No paper (ASF). [1000]	Auto sheet feeder. There is no paper. Load paper and press [OK].	Set the paper in the ASF, and press the OK button.	
No CD / DVD tray. [1001]*1	There is no CD-R tray. Attach the tray and press [OK].	Set the CD / DVD tray, and press the OK button.	
No paper in the front paper feed cassette. [1003]	Cassette. There is no paper. Load paper and press [OK].	Set the paper in the cassette, and press the OK button.	
No CD or DVD. [1002] *1	Printable disc is not set. Correctly place a disc in the CD-R tray and press [OK].	Set a CD or DVD in the CD / DVD tray (which is ejected at error occurrence), and inset the CD / DVD tray in the proper position. Then, press the OK button.	
Paper jam. [1300]	The paper is jammed. Clear the paper and press [OK].	Remove the jammed paper, and press the OK button.	Error in paper feeding from the ASF.
Paper jam in the rear guide. [1303]			Error in the duplex printing unit.
Paper jam in the under guide. [1304]			Error in paper feeding from the cassette.
Front door close error. [1250]	Paper output tray is closed. Open the paper output tray.	Open the paper output tray.	The error is indicated if the paper output tray is closed at start of a print job, or while a print job is being performed.
No ink. [1600]	Ink has run out. Replace the ink tank and close the cover.	Replace the empty ink tank(s), or press the OK button.	Pressing the OK button will clear the error without ink tank replacement, however, ink may run out during printing.
Ink tank not installed. [1660]	The following ink tank cannot be recognized.	Install the applicable ink tank(s) properly, and confirm that the LED's of all the ink tanks light red.	
The print head is not installed [1401], or it is not properly installed (print head temperature sensor error [1403] / faulty EEPROM data of the print head [1405]	Print head is not installed. Install the print head.	Install the print head properly.	
	The type of print head is incorrect. Install the correct print head.		
Inner cover open.	Inner cover is open. Close the	Close the inner cover, and press	

[1841]*2	inner cover and press [OK].	the OK button.	
Inner cover open during printing on paper. [1846]*2		Close the inner cover, and press the OK button.	
Inner cover open during printing on paper (print continuable). [1851]*1		Close the inner cover, and press the OK button.	
Inner cover open during printing on paper (print NOT continuable). [1856]*1		Close the inner cover, and press the OK button to clear the error. The paper being printed at error occurrence will be ejected without printing the remaining data for the ejected paper, then printing will resume from the next page.	
Inner cover closed during CD / DVD printing (print continuable). [1850]*1	Open the inner cover, place the CD-R tray and press [OK].	Open the inner cover which functions as the CD / DVD tray feeder, set the CD / DVD tray in the feeder, and press the OK button.	
Inner cover closed during CD / DVD printing (print NOT continuable). [1855]*1		Open the inner cover, and press the OK button to clear the error. The CD or DVD being printed at error occurrence will be ejected without printing the remaining data for the ejected CD or DVD, then the next print job will be done.	
Multiple ink tanks of the same color installed. [1681]	(Applicable ink tank icon) More than one ink tank of the following color is installed.	Replace the wrong ink tank(s) with the correct one(s).	
Ink tank in a wrong position. [1680]	Some ink cartridges are not installed in place.	Install the ink tank(s) in the correct position.	
Warning: The waste ink absorber becomes almost full. [1700]	The waste ink absorber is almost full. Press [OK] to continue but early replacement recommended. <See manual>	Press the OK button.	The service call error, indicating the waste ink absorber is full, is likely to occur soon.
The connected digital camera or digital video camera does not support Camera Direct Printing. [2001]	Incompatible device detected. Remove the device.	Remove the cable between the camera and the printer.	
Automatic duplex printing cannot be performed. [1310]	This paper is not compatible with duplex printing. Remove the paper and press [OK].	Press the OK 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).
Failed in automatic print head alignment. [2500]	Auto head align has failed. Press [OK] and repeat operation. <See manual>	Press the OK button. - If paper is being fed at error occurrence, the error is indicated after the paper is ejected. - If the error occurs, the print head alignment values are not changed. - After exit from the error by the OK button, the automatic print head alignment will not be re-done.	The error is indicated when the pattern is not printed due to no ink or non-ejection of ink, or when the sensor's AD value is incorrect.

The remaining ink amount unknown. [1683]	(Applicable ink tank icon) The remaining level of the following ink cannot be correctly detected.	An ink tank which has once been empty is installed. Replace the applicable ink tank with a new one.	Printing with a once-empty or refilled ink tank can damage the print head. If printing is continued without replacing the "no-good" ink tank, press the OK button for 5 sec. or longer to record the use of a refilled ink tank. Note: After the above operation, the function to detect the remaining ink amount is disabled.
Ink tank not recognized. [1684]	(Applicable ink tank icon) The following ink tank cannot be recognized.	A non-supported ink tank is installed (the ink tank LED is turned off). Install the supported ink tanks.	
Ink tank not recognized. [1410 to 1419]	(Applicable ink tank icon) The following ink tank cannot be recognized.	An error occurred in an ink tank (the ink tank LED is turned off). Replace the ink tank(s).	
Access cover open. [1200]	Cover is open. Close the cover.	Close the access cover.	

*1: Only for models supporting CD / DVD printing

*2: Only for models not supporting CD / DVD printing

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

Service call errors are indicated by the number of cycles the Alarm and Power LEDs blink, and the corresponding error code is displayed on the LCD.

Cycles of blinking in orange (Alarm LED) and green (Power LED)	Error [Error code]	Conditions	Solution (Replacement of listed parts, which are likely to be faulty)
2 times	Carriage error [5100]	An error occurred in the carriage encoder signal.	- Carriage unit (QM2-2298) - Timing slit strip film (QC1-6394) - Logic board ass'y (QM2-2745)*1 - Carriage motor (QK1-1500)
3 times	Line feed error [6000]	An error occurred in the line feed signal.	- Timing sensor unit (QM2-2683) - Timing slit disk film (QC1-6229) - Feed roller ass'y (QL2-0925) - Platen unit (QM2-2313)

			- Logic board ass'y (QM2-2745)*1 - Paper feed motor (QK1-1502)
4 times	Purge cam sensor error [5C00]	An error occurred in the purge unit.	- Purge unit (QM2-2299) - Logic board ass'y (QM2-2745)*1
5 times	ASF (cam) sensor error [5700]	This error takes place when feeding paper from the ASF after an error occurred in the ASF cam sensor.	- Sheet feed unit (QM2-2312)
6 times	Internal temperature error [5400]	The internal temperature is not proper.	- Logic board ass'y (QM2-2745)*1
7 times	Waste ink absorber full [5B00]	The waste ink absorber is full.	- Ink absorber kit (QY5-0147)
8 times	Print head temperature rise error [5200]	The print head temperature exceeded the specified value.	- Print head (QY6-0063) - Logic board ass'y (QM2-2745)*1
9 times	EEPROM error [6800]	A problem occurred in writing to the EEPROM.	- Logic board ass'y (QM2-2745)*1
11 times	Carriage lift mechanism error [5110]	The carriage did not move up or down properly.	- PR lift shaft ass'y (QL2-0936) - Sheet feed unit (QM2-2312) - Logic board ass'y (QM2-2745)*1 - Carriage lift sensor unit (QM2-2678)
12 times	AP position error [6A00]	An error occurred in the AP motor during purging operation.	- Sheet feed unit (QM2-2312) - Logic board ass'y (QM2-2745)*1 - Purge unit (QM2-2208)
13 times	Paper feed position error [6B00]	An error occurred in the paper feed motor.	- Sheet feed unit (QM2-2312) - Logic board ass'y (QM2-2745)*1
14 times	Paper feed cam sensor error [6B10]	An error occurred in the paper feed cam sensor during paper feeding from the front paper feed cassette. This error is also indicated when the waste ink counter is 60% or more, and a paper jam occurs.	- Sheet feed unit (QM2-2312) - Logic board ass'y (QM2-2745)*1
15 times	USB Host VBUS overcurrent [9000]	The USB Host VBUS is overloaded.	- Logic board ass'y (QM2-2745)*1
16 times	Valve sensor error [6C00]	An error occurred in the valve sensor during cleaning.	- Logic board ass'y (QM2-2745)*1 - Purge unit (QM2-2208)
17 times	Motor driver error [6D00]	The AD conversion value indicating the motor driver temperature is not proper.	- Logic board ass'y (QM2-2745)*1
19 times	Ink tank position sensor error [6502]	None of the ink tank position is detected.	- Platen unit (QM2-2313) - Logic board ass'y (QM2-2745)*1
20 times	Other hardware error [6500]	The PCI bus error is detected by the ASIC.	- Logic board ass'y (QM2-2745)*1
Continuous	ROM error	The check sum value is incorrect in the ROM	- Logic board ass'y (QM2-

alternate blinking		check at hard-power-on.	2745)*1
Alarm LED lit	RAM error	The RAM error occurred in the RAM check at hard-power-on.	- Logic board ass'y (QM2-2745)*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 ink absorber kit (QY5-0147) when replacing the logic board ass'y.
[See Section 3-3. Adjustment / Settings, (5) Service mode, for details.]

2-3. Other Error Messages

Message on the LCD	Cause	Solution
Cannot print via wireless communication. - No photo data - Unsupported photo data - Photo data too large	The received image data was invalid, or the data size was too large, in infrared communication from a mobile phone.	The error message is displayed for a while, then the LCD automatically returns to the display before the error occurrence.
The selected paper cannot be fed from cassette. Change the paper source.	The paper type being used is not supported for paper feeding from the cassette. (Business Card, Credit Card size paper and Photo Stickers are not supported.)	Change the paper source to the ASF.
Cannot specify the followings together. Change one of the settings.	Settings made conflict each other.	The error message is displayed for a while, then the LCD automatically returns to the display before the error occurrence.
There are no photos in memory card.	Supported image files are not in the memory card.	The error message is displayed for a while, then disappears.
The value exceeds the number of copies you can print.	During selecting images or specifying the number of copies, the total print quantity exceeds the prescribed value of 999.	After the error message is displayed for a while, the last operation before the error is cancelled, and the total print quantity returns to the value before the error.
Memory card is not set. Insert the card after checking the direction.	No memory card is inserted in the slot.	Set a memory card.
DPOF information is not saved in the memory card.	DPOF print was selected in the menu, but no DPOF files are contained in the memory card.	The error message is displayed for a while, then the LCD automatically returns to the display before the error occurrence.
The number of copies to print is not set. Input the number of copies.	Multi-photo print was attempted without specifying the print quantity (with the print quantity left "0" (zero)).	The error message is displayed for a while, then disappears. Specify the print quantity.
This layout is available only for A4 or 8.5"x11"(LTR).	In Layout print, "Mixed 1, 2, or 3" which is available only with A4 or LTR size paper is selected, but the paper size is not set to A4 or LTR.	The error message is displayed for a while, then the LCD automatically returns to the display before the error occurrence.
Settings cannot be changed when printing stickers.	With Sticker print selected, the Settings button was pressed.	The error message is displayed for a while, then the LCD automatically returns to the display before the error occurrence.
Change the setting after removing the card.	With a memory card inserted in the slot, change of the Read/Write attribute was attempted.	The error message is displayed for a while, then the LCD automatically returns to the display before the error occurrence.
The card is currently write-enabled. Set to read-only mode before performing operation.	With the memory card set to the Read/Write mode, Card Direct printing operation was attempted from the menu.	The error message is displayed for a while, then the LCD automatically returns to the display before the error occurrence.

2-4. Warnings

Warning	Message on the LCD	Solution
Low ink	The following ink is low. Continue? (Icon of each ink tank) Yes No	- Select **Yes**, and press the OK button. => Printing starts, and it is indicated on the LCD. - Select **No**, and press the OK button. => Printing is cancelled, and the LCD returns to the display immediately before printing was attempted.
	In Camera Direct Printing, only "Yes" can be selected.	
Print head temperature rise	If the print head temperature does not fall, the error code "5200" is displayed, indicating the print head temperature rise error.	When the print head temperature falls, the error is automatically cleared. Note: If the print head temperature exceeds the specified limit when the access cover (scanning unit) is opened, the carriage does not move to the ink tank replacement position.
Protection of excess rise of the print head temperature	If the print head temperature does not fall, the error code "5200" is displayed, indicating the print head temperature rise error.	If the print head temperature exceeds the specified limit, an intermission is inserted during printing.
Restrictions on paper	The current paper cannot be set. Change the size and type.	Re-select the supported paper type and size.
Recommendation of the print head alignment (only on arrival of the printer)	Head alignment required. Load paper and press [OK]. Yes No	- Select **Yes**, and press the OK button. => Automatic print head alignment is done. - Select **No**, and press the OK button. => The procedures on arrival of the printer are finished.
Cancellation of image select information	Reset the selected photo information? Yes No	When one or more images are selected in Multi-photo print or Layout print, and if a user tries to display the menu or sub-menu, the message is displayed. - Select **Yes**, and press the OK button. => The image selection is cancelled, and the menu or sub-menu is displayed. - Select **No**, and press the OK button. => The LCD returns to the display immediately before the message was displayed.
Cancellation of trimming information	Reset trimming effect? Yes No	With an image trimmed, if CD / DVD print is attempted, the message is displayed. - Select **Yes**, and press the OK button. => The image trimming is cancelled, and the procedures for CD / DVD print are continued. - Select **No**, and press the OK button. => The LCD returns to the display immediately before the message was displayed.

2-5. Troubleshooting by Symptom

	Symptom	Solution
Faulty operation	The power does not turn on. The power turns off immediately after power-on.	- Confirm the connection of - the power cord, and - between the logic board and the power supply unit. - Replace the - AC adapter, or - logic board ass'y[*1].
	A strange noise occurs.	- Remove foreign material. - Attach a removed part if any. - Check the operation of the moving parts (such as purge unit, carriage unit, and paper feeding mechanism) - Replace a faulty part, if any.
	Nothing is displayed on the LCD.	- Confirm the connection between the operation panel and the logic board. - Replace the - LCD, or - logic board ass'y[*1].
	A portion of the LCD is not displayed.	- Perform the button and LCD test in the service mode, and confirm that the LCD is displayed without any segments missing. - Confirm the connection between the operation panel and the logic board. - Replace the - LCD, or - logic board ass'y[*1].
	Paper feed problems (multi-feeding, skewed feeding, no feeding)	- Examine the inside to confirm that no parts are damaged, and the rollers are clean. - Remove foreign material. - Adjust the paper guide properly. - Confirm the connection of each harness and the logic board. - Replace the - sheet feeder unit, - cassette, or - logic board ass'y[*1].
	Carriage movement problems (contact to other parts, strange noise)	- Confirm that the timing slit strip film is free from damage or grease. - Clean the timing slit strip film. - Replace the - timing slit strip film, or - carriage unit. - Remove foreign material.
Unsatisfactory print quality	No printing, or no color ejected.	- Replace the - ink tank, - print head[*2], or - logic board ass'y[*1]. - Remove foreign material from the purge unit caps, if any. - Replace the 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. - 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. - Clean the paper path with cotton swab or cloth. - Clean the ASF sub-rollers.
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. - 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. - Remove foreign material from the purge unit caps, if any. - Replace the purge unit.
Graphic or text is enlarged on printouts.	**When enlarged in the carriage movement direction:** - Clean grease or oil off the timing slit strip film - 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 - 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 ink absorber kit (QY5-0147) when replacing the logic board ass'y.
[See Section 3-3. Adjustment / Settings, (5) 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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<Part 1: 2. LIST OF ERROR DISPLAY / INDICATION>

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 QM2-2745	- Before removal of the logic board ass'y, remove the power cord, and allow for approx. 1 minute (for discharge of capacitor's accumulated charges), to prevent damages 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 ink absorber kit when replacing the logic board ass'y. [See 3-3. Adjustment / Settings, (5) Service mode, for details.]	**After replacement:** 1. Initialize the EEPROM. 2. Reset the waste ink counter. 3. Set the destination in the EEPROM. 4. Correct the CD / DVD and automatic print head alignment sensors. 5. Check the ink system function. [See 3-3. Adjustment / Settings, (5) Service mode, for details of 1 to 5] 6. Perform the print head alignment in the user mode.	- EEPROM information print - Service test print - Printing via USB connection - Direct printing from a digital camera
Ink absorber kit QY5-0147		**After replacement:** 1. Reset the waste ink counter. [See 3.3. Adjustment / Settings, (5) Service mode.]	- Service test print - EEPROM information print
Carriage unit QM2-2298		**At replacement:** 1. Apply grease to the sliding portions. [See 3-3. Adjustment / Settings, (2) Grease application.] **After replacement:** 1. Correct the CD / DVD and automatic print head alignment sensors. [See 3.3. Adjustment / Settings, (5) Service mode.] 2. Check the ink system function. [See 3.3. Adjustment / Settings, (5) Service mode.] 3. Perform the print head alignment in the user mode.	- Service test print (Confirm CD / DVD and automatic print head alignment sensor correction, and ink system function.)
Paper feed motor QK1-1502	- The red screws securing the paper feed motor are allowed to be loosened. (DO NOT loosen any other red screws.)	**At replacement:** 1. Adjust the paper feed motor. [See 3-3. Adjustment / Settings, (1) Paper feed motor adjustment.]	
Platen unit		**At replacement:**	- Service test print

QM2-2313		1. Check the ink system function. [See 3.3. Adjustment / Settings, (5) Service mode.]	
PR lift shaft ass'y QL2-0936		**At replacement:** 1. Apply grease to the sliding portions. [See 3.3. Adjustment / Settings, (2) Grease application.]	- Service test print
Timing slit strip film QC1-6394 Timing slit disk film QC1-6229	- Upon contact with the film, wipe the film with ethanol. - Confirm no grease is on the film. (Wipe off any grease thoroughly with ethanol.) - Do not bend the film	**After replacement:** 1. Perform the print head alignment in the user mode.	- Service test print
Print head QY6-0063		**After replacement:** 1. Perform the print head alignment in the user mode.	- Service test print
LCD viewer unit QM2-2305 Panel board ass'y QM2-2747			- Button and LCD test (in the service mode)

*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, (2) Flexible cable and harness wiring, connection, for details.]
- Do not drop the ferrite core, which may cause damage.
- 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 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).

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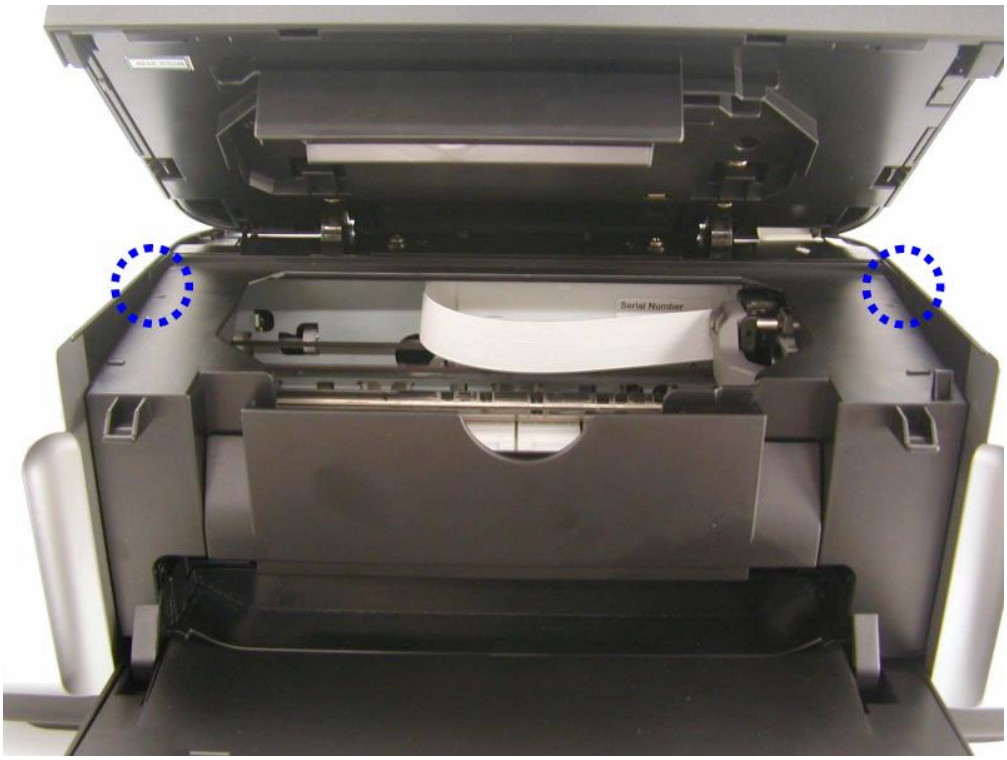
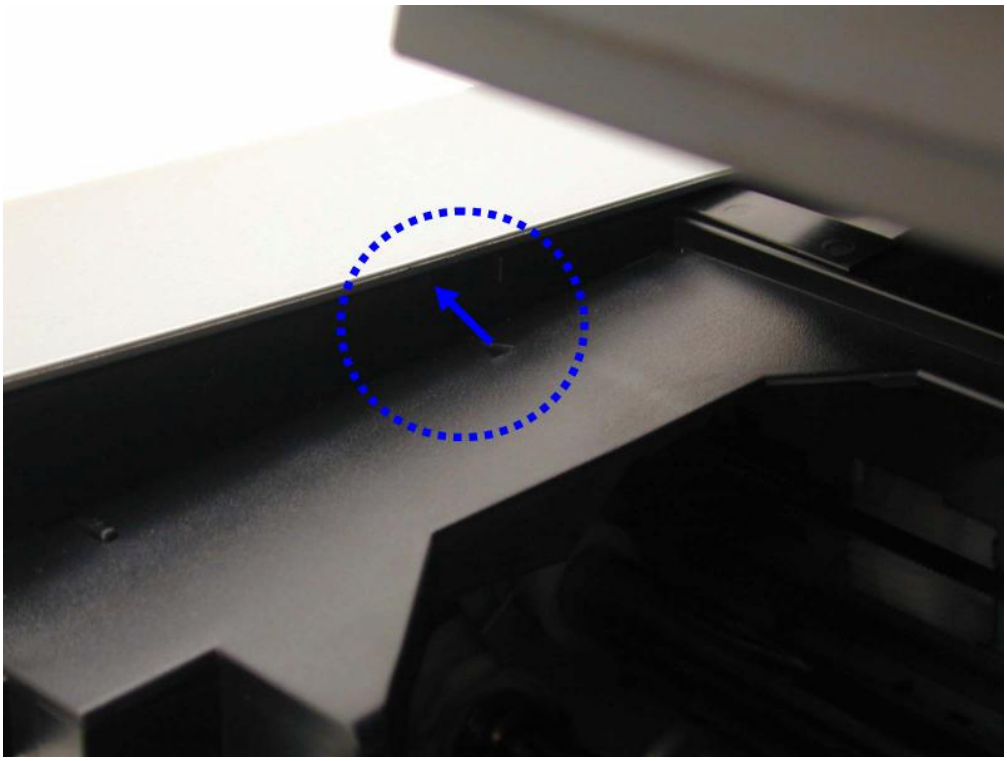
<Part 1: 3. REPAIR, 3-1>

3-2. Special Notes on Repair Servicing

(1) External cover removal

(I) Open the access cover, and release the hooks on the left and right side of the printer (indicated by the blue circles) to remove the side covers.



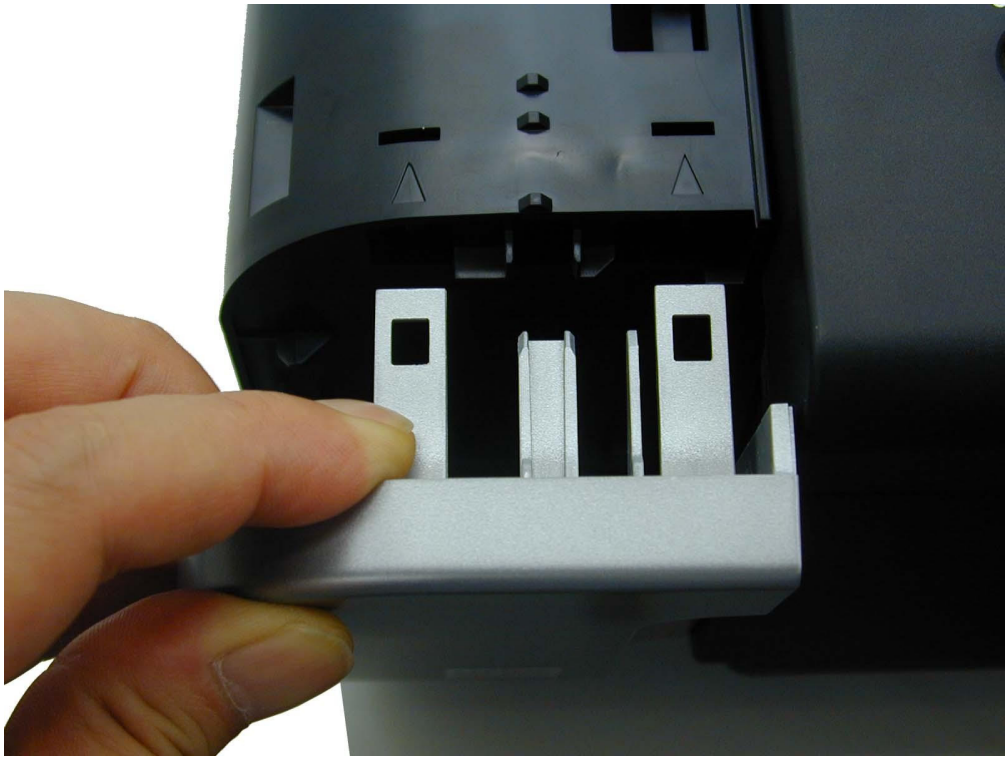


(II) Remove the screws (at 2 locations) and the flexible cable (at 1 location).



(III) Release the hooks and remove the front left cover as shown below.





(IV) Release the 2 hooks on the rear side of the printer (indicated by the blue circles).

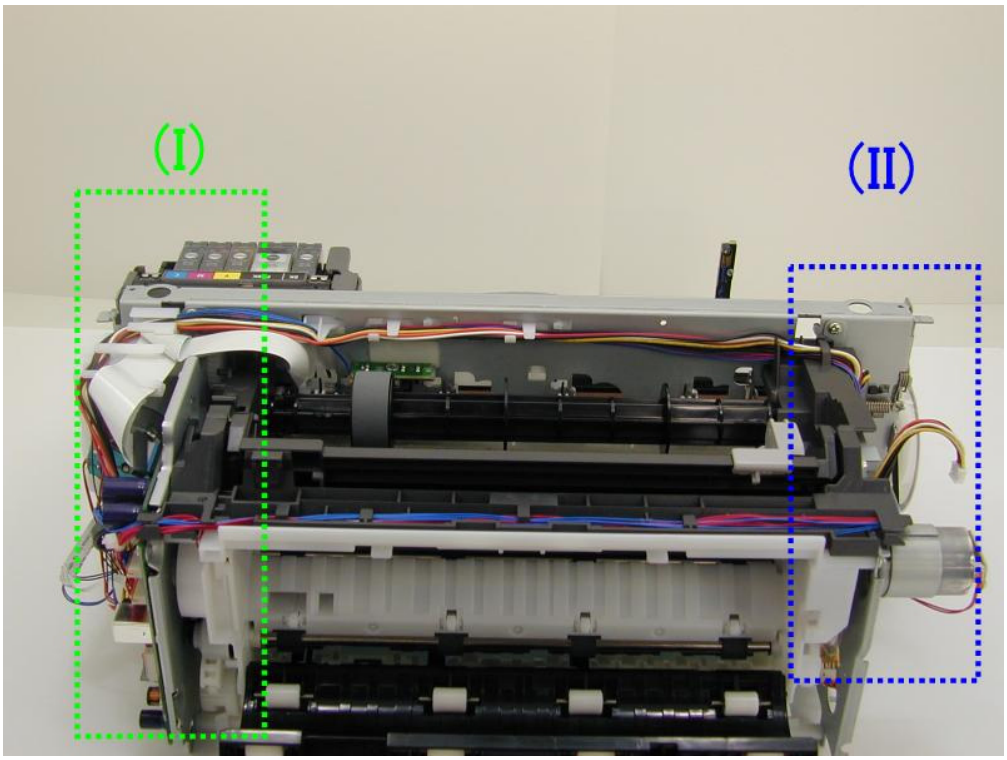


(V) Release the hook on the left side of the printer, then while inserting the flat-blade screwdriver in the slots on the left and right sides of the printer front, release the hooks to remove the main case from the bottom case.

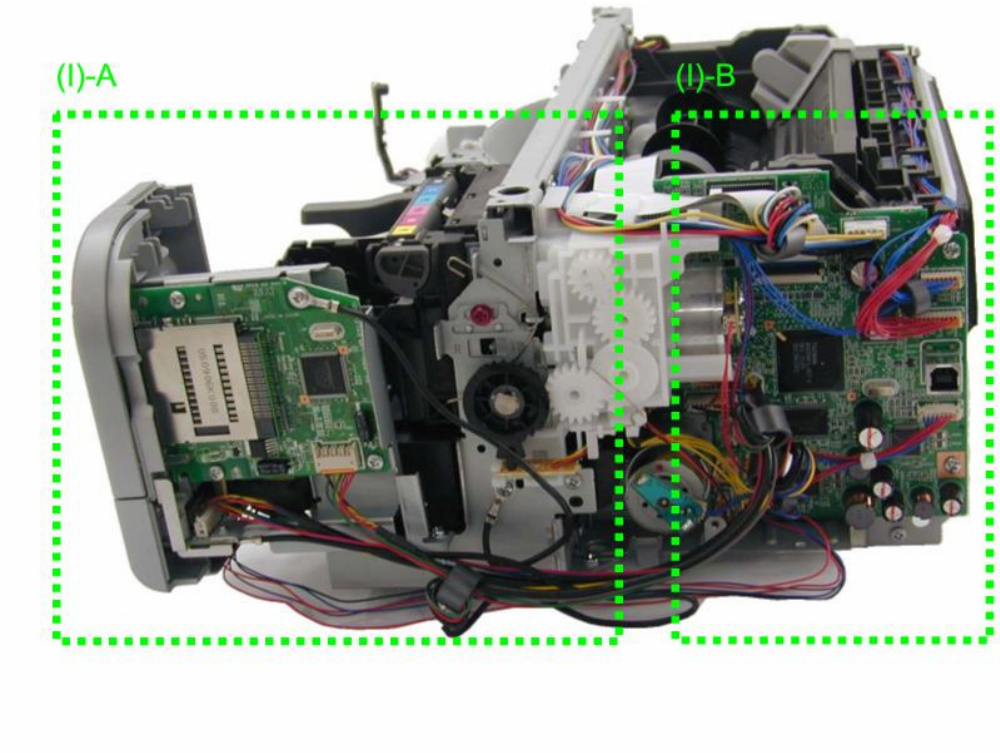


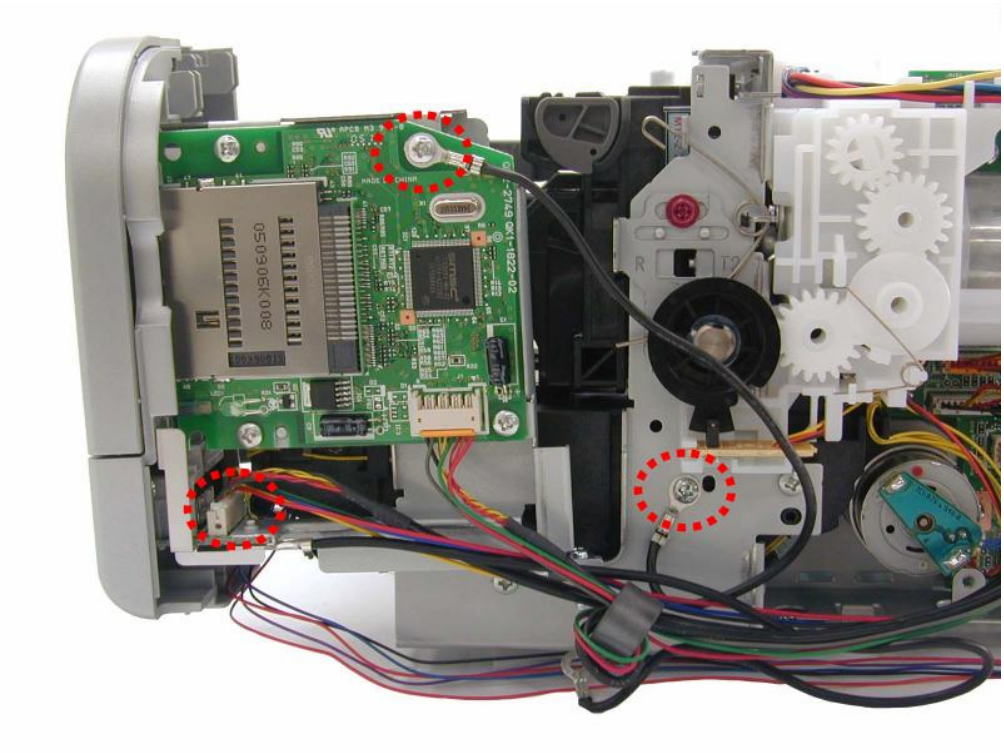
(2) Flexible cable and harness wiring, connection

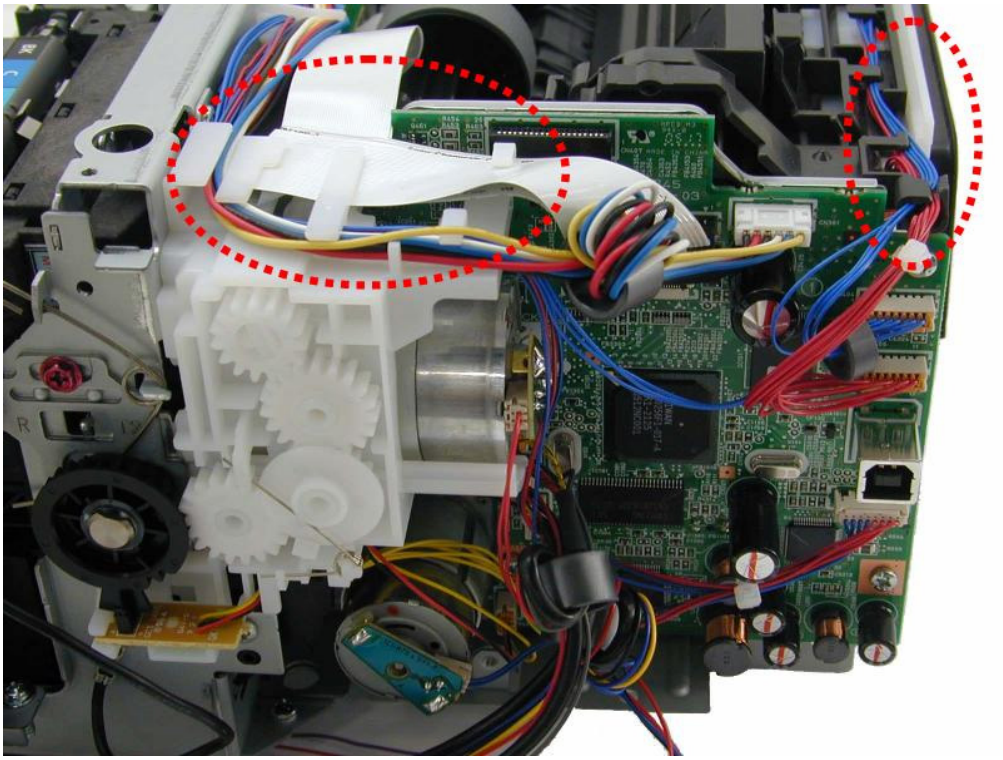
Be careful of wiring of the flexible cables and harness. Improper wiring or connection may cause breakage of a line, leading to ignition or emission of smoke.



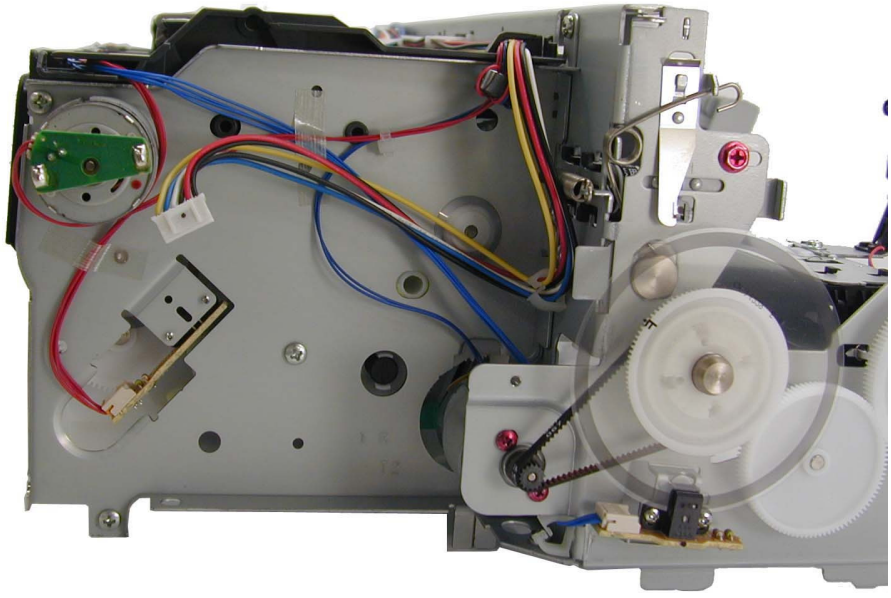
(I) Front cover right unit and logic board ass'y wiring


(I)-A
(I)-B





(II) Paper feed motor side wiring



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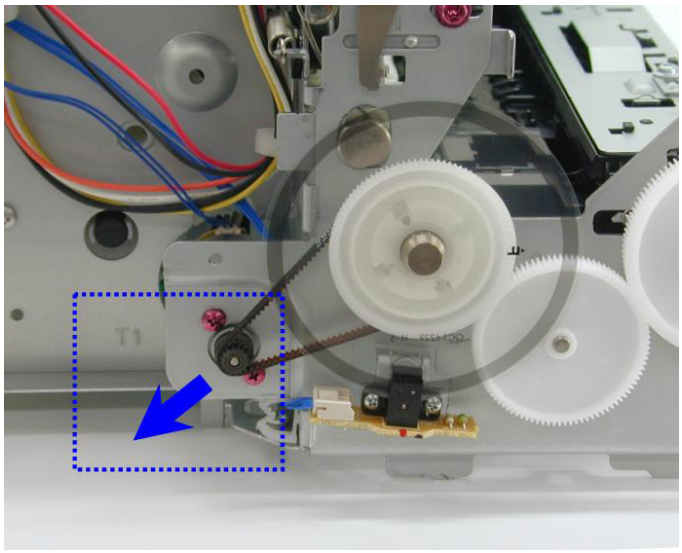
<Part 1: 3. REPAIR, 3-2>

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.



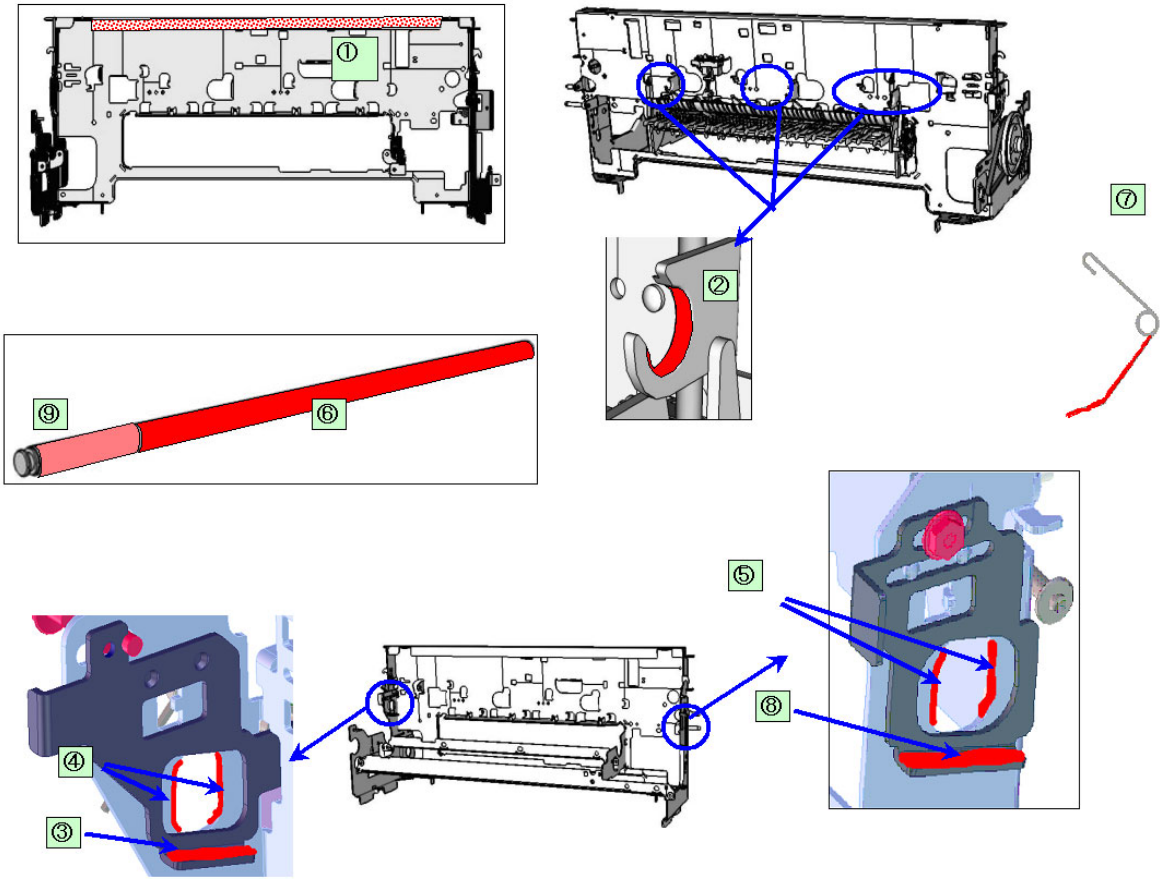
Note: The red screws securing the paper feed motor may be loosened only at replacement of the paper feed motor unit. DO NOT loosen them in other cases.

(2) Grease application

1) Printer unit

No	Part name		Where to apply grease / oil	Grease / oil name	Grease / oil amount	Number of drops*	Number of locations to apply grease / oil
1	Chassis ass'y	①	Entire surface the carriage slider contacts	Floil KG107A	27 to 54 mg	3	1
2	Chassis ass'y	②	PR lift shaft cam contact portion (at 3 locations)	Floil KG107A	9 to 18 mg	1	3
3	Adjust plate L	③	Carriage shaft cam L sliding portion	Floil KG107A	18 to 36 mg	2	1
4	Chassis ass'y	④	Carriage shaft sliding portion on the left side of the chassis (at 2 locations)	Floil KG107A	9 to 18 mg	1	2
5	Chassis ass'y	⑤	Carriage shaft sliding portion on the right side of the chassis (at 2 locations)	Floil KG107A	9 to 18 mg	1	2
6	Carriage shaft	⑥	Entire surface of the carriage shaft where the carriage unit slides	Floil KG107A	200 to 400 mg		1
7	Carriage shaft spring L	⑦	Carriage shaft sliding portion (to the end of the spring)	Floil KG107A	9 to 18 mg	1	1
8	Adjust plate R	⑧	Carriage shaft cam R sliding portion	Floil KG107A	18 to 36 mg	2	1
9	Carriage shaft	⑨	Carriage shaft surface where the carriage slides (and where machine-application of the grease is not feasible)	Floil KG107A	9 to 18 mg	1	1

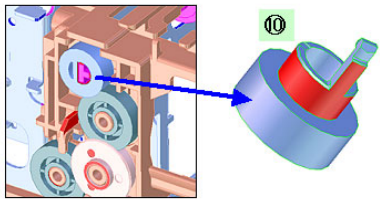
* 1 drop = 9 to 18 mg



2) CL input gear

No	Part name		Where to apply grease / oil	Grease / oil name	Grease / oil amount	Number of drops*	Number of locations to apply grease / oil
10	CL input gear	⑩	Joint of the CL gear base	Floil KG107A	9 to 18 mg	1	1

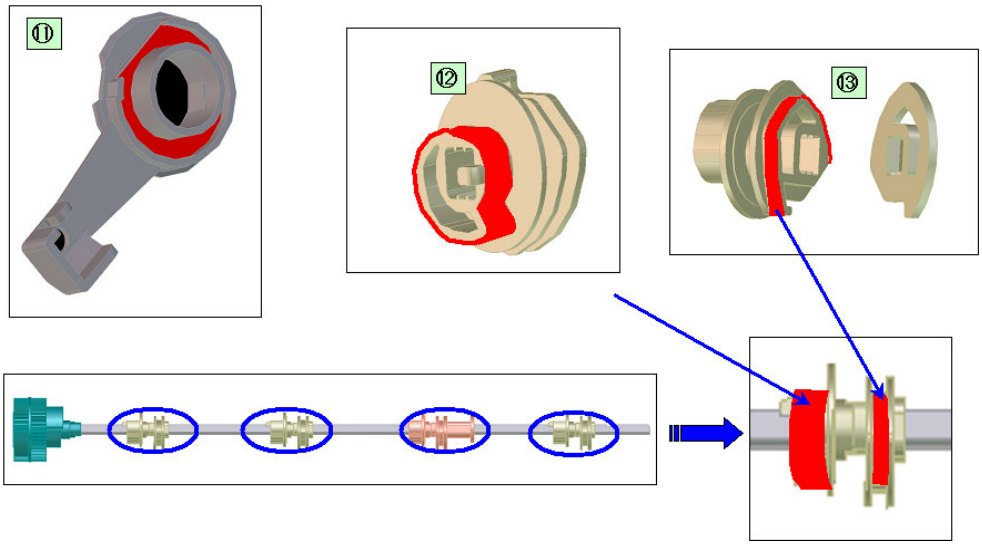
* 1 drop = 9 to 18 mg



3) PR shaft / LF roller bushing

No	Part name		Where to apply grease / oil	Grease / oil name	Grease / oil amount	Number of drops*	Number of locations to apply grease / oil+H18
11	LF roller ass'y	⑪	LF roller bushing L spring contact	Floil KG107A	4.5 to 9 mg	1/2	1
12	PR shaft ass'y	⑫	PR spring sliding portion (at 4 locations)	Floil KG107A	9 to 18 mg	1	4
13	PR shaft ass'y	⑬	PR holder contact (at 4 locations)	Floil KG107A	13.5 to 27 mg	1.5	4

* 1 drop = 9 to 18 mg



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<Part 1: 3. REPAIR, 3-3 (1) to (2)>

(3) 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 (ink absorber kit). The standard amount for waste ink absorber replacement is given in the table below.

Waste ink amount*1	Ink absorber kit 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, (5) Service mode, for details.]

(4) User mode

Function	Procedures	Remarks
Print head manual cleaning	- See "Standalone printer operation" below. - Also available from the printer driver Maintenance tab.	
Print head deep cleaning	- See "Standalone printer operation" below. - Also available from the printer driver Maintenance tab.	
Paper feed roller cleaning	See "Standalone printer operation" below.	
Nozzle check pattern printing	- See "Standalone printer operation" below. - Also available from the printer driver Maintenance tab.	
Automatic / manual print head alignment	- See "Standalone printer operation" below. - Also available from the printer driver Maintenance tab.	In Custom Settings of the printer driver Maintenance tab, manual print head alignment (by selecting the optimum values) as with the conventional models can be performed.
Bottom plate cleaning	- See "Standalone printer operation" below. - Also available from the printer driver Maintenance tab.	Cleaning of the platen ribs when the back side of paper gets smeared.
Print head replacement	The print head is replaceable at the same position as for ink tank replacement. (Open the access cover. When the carriage stops at the center, the print head can be replaced.)	

<Standalone printer operation>

1) With the printer turned on, press the Menu button. Select Maintenance / Settings, proceed to Maintenance or Device Settings, then select a desired operation.

Operation	Remarks
Print head cleaning	
Nozzle check pattern printing	Set a sheet of plain paper (A4 or letter) in the ASF or the cassette (according to the Feed Switch button setting).
Print head deep cleaning	
Paper feed roller cleaning	
Automatic / manual print head alignment	Set a sheet of plain paper (A4 or letter) in the ASF.

Bottom plate cleaning	Fold a sheet of plain paper (A4 or letter) in half crosswise, then unfold and set it in the ASF with the folded ridge facing down.
Contrast adjustment	

(5) Service mode

Function	Procedures	Remarks
Service test print - Model name - Destination - ROM version - USB serial number - Waste ink amount - CD / DVD sensor correction value - Ink system function check result - CD / DVD sensor correction result	See "Service mode operation procedures" below.	Set a sheet of A4 or letter size paper. For print sample, see 3-4. Verification Items, (1) Service test print, <Service test print sample>.
EEPROM initialization	See "Service mode operation procedures" below.	The following items are NOT initialized, and the shipment arrival flag is not on: - USB serial number - Destination settings - Waste ink counter - CD / DVD correction value
Waste ink counter reset	See "Service mode operation procedures" below.	If the waste ink amount is 7% or more, replace the ink absorber kit.
Destination settings	See "Service mode operation procedures" below.	After destination settings, make sure to initialize the EEPROM.
Button and LCD test	See "Service mode operation procedures" below.	

Note: At the end of the service mode, press the Power button. To protect the media sensor from being dislocated during transportation, 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 Stop/Reset button, press and hold the Power button. (DO NOT release the buttons. The Power LED lights in green to indicate that a function is selectable.)
2) While holding the Power button, release the Stop/Reset button. (DO NOT release the Power button.)
3) While holding the Power button, press the Stop/Reset button 2 times, and then release both the Power and Stop/Reset buttons. (Each time the Stop/Reset button is pressed, the Alarm and Power LEDs light alternately, Alarm in orange and Power in green, starting with Alarm LED.)
4) When the Power LED lights in green, press the Stop/Reset button the specified number of time(s) according to the function listed in the table below. (Each time the Stop/Reset button is pressed, the Alarm and Power LEDs light alternately, Alarm in orange and Power in green, starting with Alarm LED.)

Time(s)	LED indication	Function	Remarks
0 times	Green (Power)	Power off	When the print head is not installed, the carriage returns and locks in the home position capped.
1 time	Orange (Alarm)	Service test print	See 3-4. Verification Items, (1) Service test print.
2 times	Green (Power)	EEPROM information	See 3-4. Verification Items, (2) EEPROM

		print	information print.
3 times	Orange (Alarm)	EEPROM initialization	
4 times	Green (Power)	Waste ink counter resetting	
5 times	Orange (Alarm)	Destination settings	After entering the destination settings mode, press the Stop/Reset button the specified number of time(s) to select the destination. For detail, see "Destination settings procedures" below.
6 times	Green (Power)	Print head deep cleaning	(Cleaning of both black and color)
7 times	Orange (Alarm)	LF correction	Not used in servicing.
8 times	Green (Power)	CD / DVD check pattern print	
9 times	Orange (Alarm)	CD / DVD print position correction (horizontal: X direction)	Not used in servicing.
10 times	Green (Power)	CD / DVD print position correction (vertical: Y direction)	Not used in servicing.
11 times	Orange (Alarm)	Button and LCD test	
12 and 13 times	Green, Orange (Power, Alarm)	Return to the menu selection	
14 times	Green (Power)	Left margin correction	Not used in servicing.
15 times or more	Orange (Alarm)	Return to the menu selection	

Note: If the Stop/Reset button is pressed 15 or more times, the Alarm or Power LED lights steadily without any changes.

<Destination settings procedures>

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

Time(s)	LED indication	Destination	CD / DVD print
0 times	Green (Power)	No change of the destination	
1 time	Orange (Alarm)	Japan	Supported
2 times	Green (Power)	Korea	Not supported
3 times	Orange (Alarm)	US	Not supported
4 times	Green (Power)	Europe	Supported
5 times	Orange (Alarm)	Australia	Supported
6 times	Green (Power)	Asia	Supported
7 times	Orange (Alarm)	China	Supported
8 times	Green (Power)	Taiwan	Supported
9 times or more	Orange (Alarm)	Return to the menu selection	

Note: After setting the destination, be sure to initialize the EEPROM. The destination setting may not be valid unless the EEPROM is initialized after destination settings.

Confirm the model name and destination in service test print or EEPROM information print.

[See 3.4. Verification Items, (1) Service test print, or (2) EEPROM information print.]

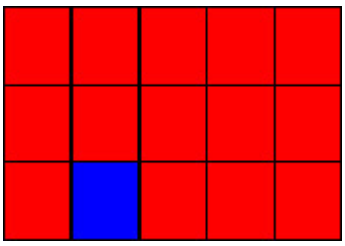
<Button and LCD test procedures>

Purpose:

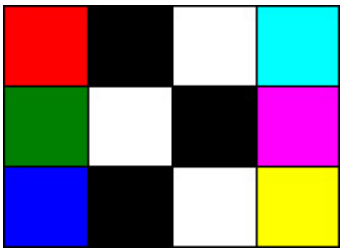
To confirm the operation after replacement of the operation panel unit, logic board, or LCD.

Procedures:

1) Press the Stop/Reset button. The LCD self test is done. (If an error occurs, the Alarm LED lights. Only the Power button is valid, and the printer is in the service mode menu selection status.)
2) Press each button on the operation panel except the Power, OK, and Stop/Reset buttons (15 buttons).
3) If 2 or more buttons are pressed at the same time, only 1 button is accepted.
   The LCD is divided into 15 blue segments, representing each button. The color of a segment corresponding to the pressed button changes to red.



4) When all the buttons (excluding the Power, OK, and Stop/Reset buttons) are pressed, the entire LCD changes to a full red screen.
   Open the access cover to display the color pattern.
   If any one of the keys is not pressed (a blue segment is left), pressing the Stop/Reset button is not accepted (nothing occurs).



5) Press the Power button to return to the service mode menu selection.

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<Part 1: 3. REPAIR, 3-3 (3) to (5)>

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.)

iP6600D: Model name

JPN: Destination

Vx.xx: ROM version

USB (xxxxxx): USB serial number

FA = xx xx xx: Reserved for plant use

D = xxx.x: Waste ink amount (%)

CDR (+xxxxx, +yyyyy): CD / DVD sensor position correction value

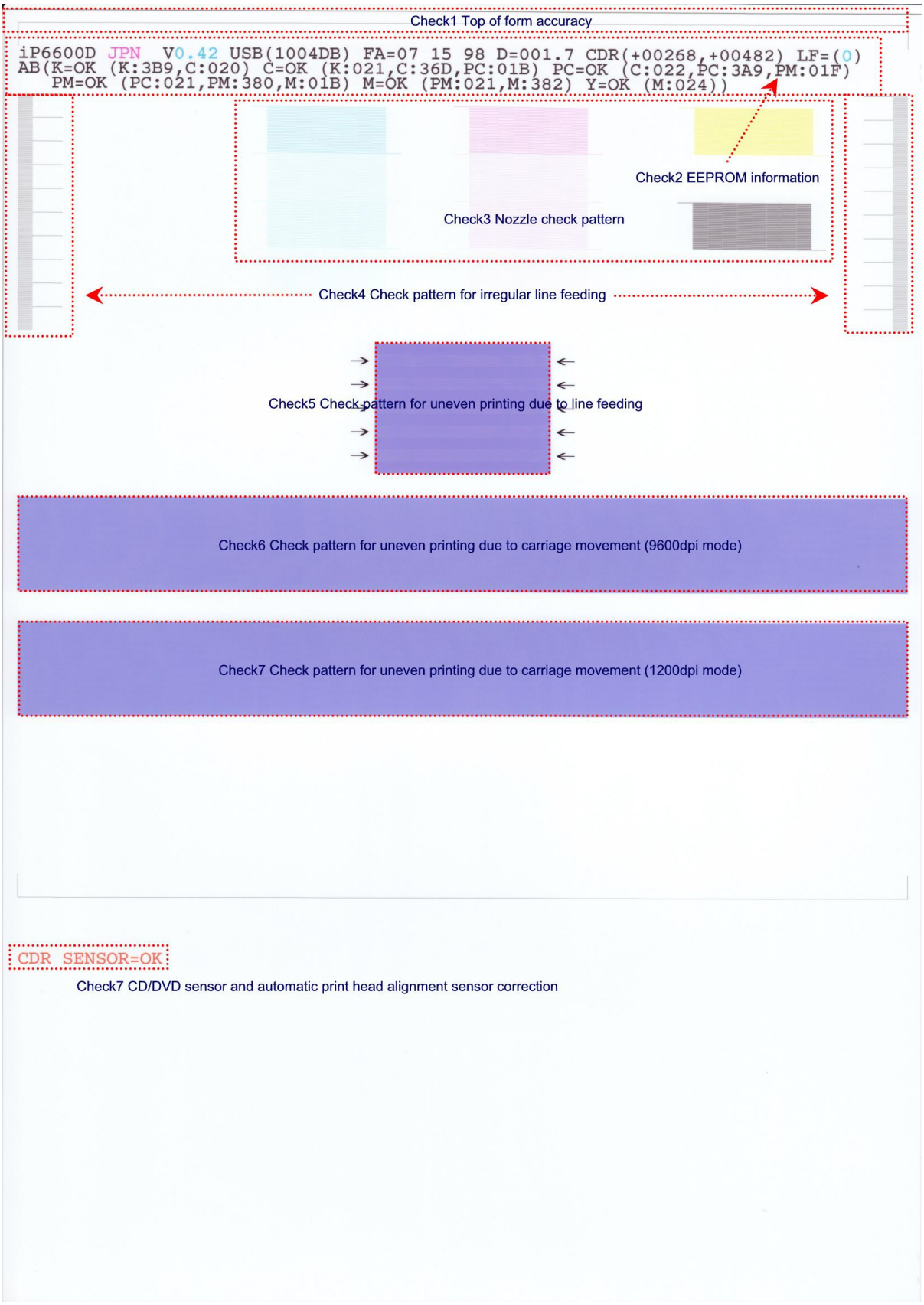
AB (K = OK Y = ...): Ink system check result

<Print check items>

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

- Check 1, top of form accuracy: The lines shall not extend off the paper.
- Check 2, EEPROM information
- Check 3, nozzle check pattern: Ink shall be ejected from all nozzles.
- Check 4, check pattern for irregular line feeding: There shall be no remarkable streaks or unevenness.
- Check 5, check pattern for uneven printing due to line feeding: There shall be no remarkable unevenness.
- Check 6, check pattern for uneven printing due to carriage movement (9600 dpi mode): There shall be no remarkable unevenness.
- Check 7, check pattern for uneven printing due to carriage movement (1200 dpi mode): There shall be no remarkable unevenness.
- Check 8, CD / DVD sensor and automatic print head alignment sensor correction: The results shall be OK.

<Service test print sample>



(2) EEPROM information print

<How to read EEPROM information print>

Print sample:

1:iP6600D JPN 2:V1.02 3:IF(USB2=1) 4:D=004.9 5:ST=2005/06/27-18:30
6:ER(ER0=1000 ER1=5100) 7:LPT=2005/07/04-09:09
8:PC(M=002 R=000 T=001 D=009 C=009)
9:CLT(2005/07/04-18:30)
10:CH=00002 11:CT(PBK=001 C=002 PC=001 PM=001 M=001 Y=001)
12:IS(PBK=1 C=0 PC=0 PM=0 M=0 Y=0)
13:P_ON(S=00029) 14:A_REG=1 M_REG=0
15:UR(A(PBKoe)=000 B(C-SC)=000 C(M-SM)=000 D(PC-SPC)=000 E(PM-SPM)=000
F(CLbi)=001 G(SCLbi)=000 H(CLbiPP)=000 I(SCLbiPP)=000) J(NZedge)=000

16:LG=01Japanese 17:WP=0024 18:CDIN(LG=001 PB=000 OPB=000) 19:BTIN=1 20:MSD(015)
21:TPAGE=00040
22:PAGE(All=00023 PP=00023 HR+MP=00000 PR+SP+SG=00000 GP=00000 PC=00000 EV=00000)
23:UCPAGE(All=00004 PP=00004 HR+MP=00000 PR+SP+SG=00000 GP=00000 PC=00000 EV=00000)
24:BPPAGE(All=00013 BSSP=00000 PC=00000)
25:CDPAGE(All=00000) 26:EDGE=00000 27:L=00000 28:CDR=00000
29:CDRP=(-00005,-00029) 30:CDRS=(079) 31:LF=0 32: LM=(ASF_R:00 UT_F:00 UT_R:00)
33:Head Temp=35.0
34:Env Temp=31.5 35:FF(98 15 07) 36:OPP=00000 37:BTPAGE=00030 38:PrnB=00000 39:Seal=00000
40:CardPaper=00000 41:CardIns(0001) 42:CardPrn(0000)
43:CDD-PR(L=000 2L=000 PC=000 A4=000) 44:CDD-SP(L=000 2L=000 PC=000 A4=000)
45:CDD-MP(L=000 2L=000 PC=000 A4=000) 46:DCD-PP(L=000 2L=000 PC=000 A4=000)
47:DCD-FPP(L=000 2L=000 PC=000 A4=000) 48:DCD-MPP(L=000 2L=000 PC=000 A4=000)

HDEEPROM
1:V0000 2:SN=0000-046E
3:LN(00000 00000 00000 00003 00013 00017 00015) 4:ID=11
5:IL=(PBK=000,C=000,C2=000,PC=000,PC2=000,PM=000,PM2=000,M=000,M2=000,Y=000)

Printed items:

1. Model name 2. ROM version 3. Connected I/F (USB2) 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 and print head replacement)
9. Cleaning time
10. Print head replacement count 11. Ink tank replacement count (PBK/C/PC/PM/M/Y)
12. Ink status (PBK/C/PC/PM/M/Y)
13. Power-on count (soft) 14. Automatic print head alignment by user 14-1. Manual print head alignment by user
15. User print head alignment values (PBKoe/C-SC/M-SM/PC-SPC/PM-SPM/CLbi/SCLbi/CLbiPP/SCLbiPP/NZedge)

16. Language 17. Wiping count 18. Camera Direct Print-supported device connection record (Canon legacy, Canon PictBridge, Competitor PictBridge)
19. Bluetooth-supported device connection record 20. Longest period where printing stops
21. Total feed pages
22. ASF feed pages (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. U-turn cassette feed pages (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. 4x6 print pages 28. Number of CDs and DVDs printed

29. CD / DVD print position adjustment value 30. CD / DVD sensor correction value 31. LF correction value (0/1/2) 32. Left margin correction value (ASF back side, U-turn front side, U-turn back side)

33. Print head temperature

34. Inside temperature 35. Line inspection information 36. Other Photo Paper 37. Feed pages via Bluetooth connection

38. Print Beam feed pages 39. Sticker sheets fed 40. Business card & Credit card sized paper pages fed

41. Memory card use count (total) 42. Total Card Direct print pages

43. Card Direct print pages: Photo Paper Pro (4 x 6, 5 x 7, Japanese post card, Letter)

44. Card Direct print pages: Photo Paper Plus Glossy (4 x 6, 5 x 7, Japanese post card, Letter)

45. Card Direct print pages: Matte Photo Paper (4 x 6, 5 x 7, Japanese post card, Letter)

46. Camera Direct print pages: Photo Paper (4 x 6, 5 x 7, Japanese post card, Letter)

47. Camera Direct print pages: Fast Photo Paper (4 x 6, 5 x 7, Japanese post card, Letter)

48. Camera Direct print pages: Matte Photo Paper (4 x 6, 5 x 7, Japanese post card, Letter)

HDEEPROM

1. Version 2. Serial number 3. Lot number 4. Print head ID

5. Ink ejection level (PBK, C, C2, PC, PC2, PM, PM2, M, M2, Y)

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<Part 1: 3. REPAIR, 3-4>

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 feed 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.]

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.

Memo:

If the print head must be removed from the printer and transported alone, perform the following:

(1) Attach the protective cap (used when the packing was opened) to the print head (to protect the print head face from damage due to shocks).

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<Part 1: 4. PRINTER TRANSPORTATION>

Part 2

TECHNICAL REFERENCE



1. NEW TECHNOLOGIES

(1) New ink tank system (CLI-8)

An LED is installed in each ink tank.

By the LED indication, wrong installation of the ink tanks will be prevented, and the remaining ink level can be visually recognized with the ink tanks seated in the carriage.

(2) Super-photo quality printing

By the FINE technologies, 1 pl of ultra-fine ink droplet is adopted. The iP6600D provides excellent super-photo print quality without graininess at the maximum resolution of 9,600 dpi x 2,400 dpi*1, which surpasses that of a traditional 6-color printer.

*1: Printing at the minimum distance of 1/9600 inch between the dots.

(3) Speed

Approx. 46 sec. in 4 x 6 borderless printing (standard mode, PP-101, Full Page SCID No.2)

For reference:

High-speed printing at 18 ppm in monochrome printing and 17 ppm in color printing have been achieved.

(4) New functionality in Direct Printing

- Plain paper is now usable in Camera Direct Printing from a digital camera or digital video camera, if both support PictBridge.
- File numbers can be printed on the images.
- Red-eye correction:

  Picks up a red area from an image, detects and corrects the red eye(s).
- Optimization of photos taken with a mobile phone:

  Minimizes jaggies in printing a low-resolution photo taken with a mobile phone.
- Writing to a memory card:

  From the Maintenance/settings menu, the memory card can be set to the Read-only or Read/Write mode.
- CD / DVD printing:

  Direct Printing from a memory card on a CD or DVD is available (in CD / DVD printing supported regions only).
- Slide show:

  To the Single-photo print menu, the slide show function has been added to display photos from the memory card one by one automatically.

(5) 3.5 color LCD

The 3.5 color LCD is installed, and the operation panel is on the top center, offering the same operability as that of Canon multifunction printers.

(6) USB 2.0 Hi-Speed supported

The printer supports USB 2.0 Hi-Speed, enabling high speed data transfer in use with the computer, OS, and USB hub.

(7) Printing via Bluetooth communication (optional)

The Bluetooth Unit BU-20 is available as an option.

Adopting a compatible USB adapter, the BU-20, when attached to the printer, enables wireless printing from a Bluetooth-compliant computer or mobile phone.

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 (when the cleaning flag is on), except in the following cases:

- Cleaning on arrival: Performed when the access cover is closed.
- Manual cleaning / deep cleaning: Performed manually.

<Cleaning mode list>

Condition	Details	Amount of ink used (g) (in the normal temperature/humidity environment)	Est. required time (sec.) (not including the time of opening the caps)
On arrival of the printer (Each color separately)	First to second cleaning after shipped from the plant.	2.696	80
Dot count cleaning (Each color separately)	When the specified number of dots are printed since the previous cleaning.	0.810	40
Timer cleaning - 1 (Each color separately)	If 120 to 336 hours have elapsed since the previous cleaning till the start of the next printing.	0.810	40
Timer cleaning - 2 (Each color separately)	If 336 to 720 hours have elapsed since the previous cleaning till the start of the next printing.	1.346	60
Timer cleaning - 3 (Each color separately)	If 720 to 1,080 hours have elapsed since the previous cleaning till the start of the next printing.		
Timer cleaning - 4 (Each color separately)	If 1,080 to1,440 hours have elapsed since the previous cleaning till the start of the next printing.	1.346	60
Timer cleaning - 5 (Each color separately)	If 1,440 to 2,160 hours have elapsed since the previous cleaning till the start of the next printing.		
Timer cleaning - 6 (Each color separately)	If 2,160 to 4,320 hours have elapsed since the previous cleaning till the start of the next printing.	1.346	60
Timer cleaning - 7 (Each color separately)	If 4,320 or longer hours have elapsed since the previous cleaning till the start of the next printing.	1.346	60
At print head replacement	When the print head is removed and installed.	2.696	80
At ink tank replacement	When an ink tank is replaced (without the print head removal or re-installation)	1.346	60
Manual cleaning	- Via the operation panel - Via the printer driver	0.810	40

Deep cleaning	- Via the operation panel - Via the printer driver	1.346	60

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<Part 2: 2. CLEANING MODE AND AMOUNT OF INK PURGED>

3. PRINT MODE

	Default setting
	Selectable in the printer driver Main tab
	Selectable after clicking Custom in the Main tab

Ink used: k: CLI-8BK
C: CLI-8C
M: CLI-8M
Y: CLI-8Y
PC: CLI-8PC
PM: CLI-8PM

3-1. Resolution in Printing via Computer

Paper type \ Printer driver Custom setting		Fast 5	<- 4	3	->2	Fine 1
Plain paper	Print quality Resolution HxV (dpi) Print control Ink used	**Custom** C/M/Y/k: 300 x 300 1 pass, Bi-directional C/M/Y/k	**Fast** C/M/Y/k: 300 x 300 1 pass, Bi-directional C/M/Y/k	**Standard** C/M/Y: 600 x 600, k: 600 x 1200 2 passes, Bi- (uni-) directional C/M/Y/k	**High** k/Y: 600 x 1200, C/M: 600 x 2400 6 passes, Bi-directional C/M/Y/k	
Photo Paper Pro PR-101	Print quality Resolution HxV (dpi) Print control Ink used			**Standard** k/Y: 600 x 1200, C/M/PC/PM: 600 x 2400 6 passes, Bi-directional C/M/Y/k/PC/PM	**High** k/Y: 600 x 1200, C/M/PC/PM: 600 x 2400 8 passes, Bi-directional C/M/Y/k/PC/PM	**Custom** k/Y: 9600 x 1200, C/M/PC/PM: 9600 x 2400 16 passes, Bi-directional C/M/Y/k/PC/PM
Photo Paper Plus Glossy Photo Paper Plus Semi-gloss PP-101/SG-101	Print quality Resolution HxV (dpi) Print control Ink used			**Standard** k/Y: 600 x 1200, C/M/PC/PM: 600 x 2400 6 passes, Bi-directional C/M/Y/k/PC/PM	**High** k/Y: 600 x 1200, C/M/PC/PM: 600 x 2400 8 passes, Bi-directional C/M/Y/k/PC/PM	
Matte Photo Paper MP-101	Print quality Resolution HxV (dpi) Print control Ink used			**Standard** k/Y: 600 x 1200, C/M/PC/PM: 600 x 600 6 passes, Bi-directional C/M/Y/k/PC/PM	**High** k/Y: 600 x 1200, C/M/PC/PM: 600 x 600 8 passes, Bi-directional C/M/Y/k/PC/PM	
Glossy Photo Paper GP-401/501	Print quality Resolution HxV (dpi) Print control Ink used			**Standard** k/Y: 600 x 1200, C/M/PC/PM: 600 x 2400 6 passes, Bi-directional C/M/Y/k/PC/PM	**High** k/Y: 600 x 1200, C/M/PC/PM: 600 x 2400 8 passes, Bi-directional C/M/Y/k/PC/PM	
Photo Paper Plus Double Sided PP-101D	Print quality Resolution HxV (dpi) Print control Ink used			**Standard** k/Y: 600 x 1200, C/M/PC/PM: 600 x 2400 6 passes, Bi-directional C/M/Y/k/PC/PM	**High** k/Y: 600 x 1200, C/M/PC/PM: 600 x 2400 8 passes, Bi-directional C/M/Y/k/PC/PM	
High Resolution Paper HR-101S	Print quality Resolution HxV (dpi) Print control Ink used			**Standard** k/Y: 600 x 1200, C/M/PC/PM: 600 x 600 6 passes, Bi-directional C/M/Y/k/PC/PM	**High** k/Y: 600 x 1200, C/M/PC/PM: 600 x 600 8 passes, Bi-directional C/M/Y/k/PC/PM	
Envelope	Print quality Resolution HxV (dpi) Print control Ink used			**Fast** C/M: 600 x 600, k,Y: 600 x 1200 2 passes, Bi- (uni-) directional C/M/Y/k	**Standard** k/Y: 600 x 1200, C/M: 600 x 2400 6 passes, Bi-directional C/M/Y/k	**High** k/Y: 600 x 1200, C/M: 600 x 2400 8 passes, Bi-directional C/M/Y/k
Transparency CF-102	Print quality Resolution HxV (dpi) Print control Ink used			**Standard** k/Y: 600 x 1200, C/M: 600 x 600 6 passes, Bi-directional C/M/Y/k	**High** k/Y: 600 x 1200, C/M: 600 x 600 8 passes, Bi-directional C/M/Y/k	
T-shirt transfer TR-301	Print quality Resolution HxV (dpi) Print control Ink used			**Standard** k/Y: 600 x 1200, C/M: 600 x 600 6 passes, Bi-directional C/M/Y/k		
CD-R (recommended)	Print quality Resolution HxV (dpi) Print control Ink used			**Fast** k/Y: 600 x 1200, C/M/PC/PM: 600 x 600 6 passes, Bi-directional C/M/Y/k	**Standard** k/Y: 600 x 1200, C/M/PC/PM: 600 x 600 8 passes, Bi-directional C/M/Y/k	**High** k/Y: 600 x 1200, C/M/PC/PM: 600 x 600 12 passes, Bi-directional C/M/Y/k
CD-R (other)	Print quality Resolution HxV (dpi) Print control Ink used			**Fast** k/Y: 600 x 1200, C/M/PC/PM: 600 x 600 6 passes, Bi-directional C/M/Y/k	**Standard** k/Y: 600 x 1200, C/M/PC/PM: 600 x 600 8 passes, Bi-directional C/M/Y/k	**High** k/Y: 600 x 1200, C/M/PC/PM: 600 x 600 12 passes, Bi-directional C/M/Y/k
Other Photo Paper	Print quality Resolution HxV (dpi) Print control Ink used				**Standard** k/Y: 600 x 1200, C/M/PC/PM: 600 x 2400 8 passes, Bi-directional C/M/Y/k/PC/PM	

3-2. Resolution in Borderless Printing

| Paper type \ Printer driver Custom setting | | Fast
5 | <-
4 | 3 | ->
2 | Fine
1 |
|---|---|---|---|---|---|---|
| Plain paper | Print quality
Resolution HxV (dpi)
Print control
Ink used | | | **Standard**
k: 600 x 1200, C/M/Y: 600 x 600
2 passes, Bi- (uni-) directional
C/M/Y/k | | |
| Photo Paper Pro
PR-101 | Print quality
Resolution HxV (dpi)
Print control
Ink used | | | **Standard**
k/Y: 600 x 1200, C/M/PC/PM: 600 x 2400
6 passes, Bi-directional
C/M/Y/k/PC/PM | **High**
k/Y: 600 x 1200, C/M/PC/PM: 600 x 2400
8 passes, Bi-directional
C/M/Y/k/PC/PM | **Custom**
k/Y: 9600 x 1200, C/M/PC/PM: 9600 x 2400
16 passes, Bi-directional
C/M/Y/k/PC/PM |
| Photo Paper Plus Glossy
Photo Paper Plus Semi-gloss
PP-101/SG-101 | Print quality
Resolution HxV (dpi)
Print control
Ink used | | | **Standard**
k/Y: 600 x 1200, C/M/PC/PM: 600 x 2400
6 passes, Bi-directional
C/M/Y/k/PC/PM | **High**
k/Y: 600 x 1200, C/M/PC/PM: 600 x 2400
8 passes, Bi-directional
C/M/Y/k/PC/PM | |
| Matte Photo Paper
MP-101 | Print quality
Resolution HxV (dpi)
Print control
Ink used | | | **Standard**
k/Y: 600 x 1200, C/M/PC/PM: 600 x 600
6 passes, Bi-directional
C/M/Y/k/PC/PM | **High**
k/Y: 600 x 1200, C/M/PC/PM: 600 x 600
8 passes, Bi-directional
C/M/Y/k/PC/PM | |
| Glossy Photo Paper
GP-401/501 | Print quality
Resolution HxV (dpi)
Print control
Ink used | | | **Standard**
k/Y: 600 x 1200, C/M/PC/PM: 600 x 2400
6 passes, Bi-directional
C/M/Y/k/PC/PM | **High**
k/Y: 600 x 1200, C/M/PC/PM: 600 x 2400
8 passes, Bi-directional
C/M/Y/k/PC/PM | |
| Photo Paper Plus Double Sided
PP-101D | Print quality
Resolution HxV (dpi)
Print control
Ink used | | | **Standard**
k/Y: 600 x 1200, C/M/PC/PM: 600 x 2400
6 passes, Bi-directional
C/M/Y/k/PC/PM | **High**
k/Y: 600 x 1200, C/M/PC/PM: 600 x 2400
8 passes, Bi-directional
C/M/Y/k/PC/PM | |
| Other Photo Paper | Print quality
Resolution HxV (dpi)
Print control
Ink used | | | | **Standard**
k/Y: 600 x 1200, C/M/PC/PM: 600 x 2400
8 passes, Bi-directional
C/M/Y/k/PC/PM | |

3-3. Resolution in Duplex Printing

| Paper type \ Printer driver Custom setting | | Fast
5 | <-
4 | 3 | ->
2 | Fine
1 |
|---|---|---|---|---|---|---|
| Plain paper | Print quality
Resolution HxV (dpi)
Print control
Ink used | **Custom**
C/M/Y/k: 300 x 300
1 pass, Bi-directional
C/M/Y/k | **Fast**
C/M/Y/k: 300 x 300
1 pass, Bi-directional
C/M/Y/k | **Standard**
C/M/Y: 600 x 600, k: 600 x 1200
2 passes, Bi- (uni-) directional
C/M/Y/k | **High**
k/Y: 600 x 1200, C/M: 600 x 2400
6 passes, Bi-directional
C/M/Y/k | |
| Photo Paper Plus Double Sided
PP-101D | Print quality
Resolution HxV (dpi)
Print control
Ink used | | | **Standard**
k/Y: 600 x 1200, C/M/PC/PM: 600 x 2400
6 passes, Bi-directional
C/M/Y/k/PC/PM | **High**
k/Y: 600 x 1200, C/M/PC/PM: 600 x 2400
8 passes, Bi-directional
C/M/Y/k/PC/PM | |

3-4. Resolution in Camera Direct Printing

| Paper type \ Printer driver Custom setting | | Fast
5 | <-
4 | 3 | ->
2 | Fine
1 | Camera Direct Printing mode |
|---|---|---|---|---|---|---|---|
| Plain paper | Print quality
Resolution HxV (dpi)
Print control
Ink used | | | | **Standard on the operation panel**
k/Y: 600 x 1200, C/M: 600 x 2400
6 passes, Bi-directional
C/M/Y(c/m)/k | | k/Y: 600 x 1200, C/M: 600 x 2400
8 passes, Bi-directional
C/M/Y(c/m)/k |
| Photo Paper Pro
PR-101 | Print quality
Resolution HxV (dpi)
Print control
Ink used | | | **Standard on the operation panel**
k/Y: 600 x 1200, C/M/PC/PM: 600 x 2400
6 passes, Bi-directional
C/M/Y/PC/PM/k | **High on the operation panel**
k/Y: 600 x 1200, C/M/PC/PM: 600 x 2400
8 passes, Bi-directional
C/M/Y/PC/PM/k | | |
| Photo Paper Plus Glossy
Photo Paper Plus Semi-gloss
PP-101/SG-101 | Print quality
Resolution HxV (dpi)
Print control
Ink used | | | **Standard on the operation panel**
k/Y: 600 x 1200, C/M/PC/PM: 600 x 2400
6 passes, Bi-directional
C/M/Y/PC/PM/k | **High on the operation panel**
k/Y: 600 x 1200, C/M/PC/PM: 600 x 2400
8 passes, Bi-directional
C/M/Y/PC/PM/k | | |

3-5. Resolution in Card Direct Printing

| Paper type \ Printer driver Custom setting | | Fast
5 | <-
4 | 3 | ->
2 | Fine
1 | Card Direct Printing mode |
|---|---|---|---|---|---|---|---|
| Plain paper | Print quality
Resolution HxV (dpi)
Print control
Ink used | | | | **Standard on the operation panel**
k/Y: 600 x 1200, C/M: 600 x 2400
6 passes, Bi-directional
C/M/Y(c/m)/k | | k/Y: 600 x 1200, C/M: 600 x 2400
8 passes, Bi-directional
C/M/Y(c/m)/k |
| Photo Paper Pro
FR-101 | Print quality
Resolution HxV (dpi)
Print control
Ink used | | | **Standard on the operation panel**
k/Y: 600 x 1200, C/M/PC/PM: 600 x 2400
6 passes, Bi-directional
C/M/Y/PC/PM/k | **High on the operation panel**
k/Y: 600 x 1200, C/M/PC/PM: 600 x 2400
8 passes, Bi-directional
C/M/Y/PC/PM/k | | |
| Photo Paper Plus Glossy
Photo Paper Plus Semi-gloss
PP-101/SG-101 | Print quality
Resolution HxV (dpi)
Print control
Ink used | | | **Standard on the operation panel**
k/Y: 600 x 1200, C/M/PC/PM: 600 x 2400
6 passes, Bi-directional
C/M/Y/PC/PM/k | **High on the operation panel**
k/Y: 600 x 1200, C/M/PC/PM: 600 x 2400
8 passes, Bi-directional
C/M/Y/PC/PM/k | | |
| Matte Photo Paper
MP-101 | Print quality
Resolution HxV (dpi)
Print control
Ink used | | | **Standard on the operation panel**
k/Y: 600 x 1200, C/M/PC/PM: 600 x 600
6 passes, Bi-directional
C/M/Y/PC/PM/k | **High on the operation panel**
k/Y: 600 x 1200, C/M/PC/PM: 600 x 600
8 passes, Bi-directional
C/M/Y/PC/PM/k | | |
| Glossy Photo Paper
GP-401/501 | Print quality
Resolution HxV (dpi)
Print control
Ink used | | | **Standard on the operation panel**
k/Y: 600 x 1200, C/M/PC/PM: 600 x 2400
6 passes, Bi-directional
C/M/Y/PC/PM/k | **High on the operation panel**
k/Y: 600 x 1200, C/M/PC/PM: 600 x 2400
8 passes, Bi-directional
C/M/Y/PC/PM/k | | |
| CD-R (recommended) | Print quality
Resolution HxV (dpi)
Print control
Ink used | | | | **Standard on the operation panel**
k/Y: 600 x 1200, C/M: 600 x 2400
8 passes, Bi-directional
C/M/Y(c/m)/k | | |
| CD-R (other) | Print quality
Resolution HxV (dpi)
Print control
Ink used | | | **Fast on the operation panel**
k/Y: 600 x 1200, C/M: 600 x 2400
6 passes, Bi-directional
C/M/Y(c/m)/k | | | |

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<Part 2: 3. PRINT MODE>

4. FAQ (Problems Specific to the iP6600D and Corrective Actions)

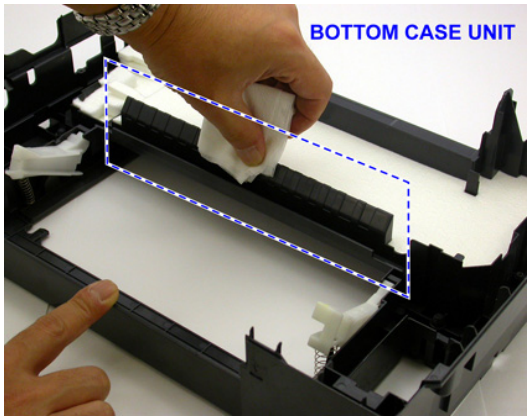
No.	*	Function	Phenomenon	Condition	Cause	Corrective action	Possible call or complaint
1	B	Print results	Skewed paper feeding	- Paper feeding from the cassette, Photo Paper Plus Double Sided, 5 x 7 size	Due to its mechanism, contact of the PF pinch rollers to the 5 x 7 size paper is uneven, which is likely to cause skewed paper feeding.	Change the paper feeding method from the cassette to the auto sheet feeder.	- Paper feeds at an angle. - A margin appears on printouts.
2	B	Paper feed	Improper paper feeding: - Multi-feeding - Skewed paper feeding - Paper jam	- Paper feeding from the ASF - Plain paper - Highest print speed (Custom setting to 5) - In the high temperature and high humidity environment - In the low temperature and low humidity environment - With the maximum amount of paper set (13 mm)	In the high temperature and high humidity environment, paper becomes wavy; in the low temperature and low humidity environment, paper curls significantly. When the maximum amount of paper is set in the ASF, and if the paper-return tab fits in a wave or curl of the paper, the tab slips and does not catch paper properly, causing paper feed problems.	- Reduce the amount of paper set in the ASF to half (approx. 5 mm high).	- Multiple sheets of paper feed at the same time. - Paper feeds at an angle. - A paper jam occurs.
3	C	Print results	Skewed paper feeding (at the level of +/- 1%)	- Paper feeding from the ASF - Credit Card size	Since coaxial tolerance between the pinch roller and the LF roller, which determines the paper feed alignment, is 0.2mm, skewed paper feeding can occur. However, according to the field data of current models, the skewness level caused by the coaxial tolerance of 0.2mm is within the criteria of +/- 1%, thus the phenomenon is left as is.	- Align the paper guide to the paper edge tighter than usual.	- Paper feeds at an angle. - A margin appears on printouts.
			Soiling on the back side of paper (lines or streaks parallel to the paper feed direction)	- After continuous borderless printing of small sized paper (such as 4 x 6), when a larger sized paper (such	In borderless printing, printing is performed to the size slightly larger than the paper size, and ink off the	1. Perform Bottom plate cleaning (from the printer driver) up to 3 times[*1].	- Paper gets smeared. - The back side of paper gets smeared.

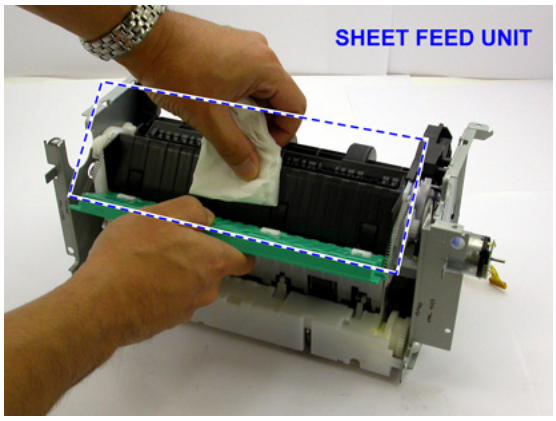
4	A	Print results		as A4) is printed. - With Photo Paper Plus Double Sided or postcards, the phenomenon is likely to be noticeable and to be complained of by users, as printing is performed on both sides of such paper.	paper is absorbed by the platen's ink absorber. Absorbed ink may attach to the platen rib(s) after several dozen sheets are printed, causing soiling at the leading edge of paper or on the back side of paper.	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.	
5	B	Print results	Soiling on paper in automatic duplex printing (lines or streaks perpendicular to the paper feed direction)	- 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.	**Temporary operational solution:** Cancel automatic duplex printing, and manually print each side of paper. **Cleaning by user:** 1. Perform Bottom plate cleaning (from the printer driver) up to 3 times[*1]. 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. 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].	- 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.
			Scratches on paper	- PP-101D, PP-101, PR-101, SG-101, etc. - Paper feeding from the cassette	Scratches on the PF return lever due to paper feeding from the cassette, and duplex printing path.	- Change the paper feeding method from the cassette to the auto sheet feeder. - If automatic duplex printing is performed, cancel it, and, by setting only a single sheet of paper in	- Paper is scratched. - Marks appear on printed paper.

						the auto sheet feeder, manually print each side of paper.	
6	C	Print results		- PP-101D, PP-101, PR-101, SG-101, etc. - Paper feeding from the ASF - Multiple number of sheets loaded	When multiple sheets of paper are set, the back side of paper being picked up scratches the front side of paper beneath (especially where the paper feed rollers contact when picking up the paper).	Set only a single sheet of paper in the auto sheet feeder.	
7	C	Print results	Soiling on paper	The printer has been used for a long period of time with the ASF cover closed before printing is performed using the ASF.	Due to ink mist attached to the ASF sub-pick-up rollers. If printing is done from the cassette with the ASF cover closed, ink mist is kept inside the printer, attaching to the ASF sub-pick-up rollers. Since the sub-rollers usually do not contact the paper, ink mist can easily accumulate, especially during printing on small-sized paper which never contacts the sub-rollers.	Clean the ASF sub-rollers (see *3 for details.)	
8	B	Print results	- Skewed paper feeding	- SG-101 - Paper feeding from the ASF - 10 sheets (max.) set in the ASF	When 10 sheets of paper are set in the ASF, and if they warp significantly, the warping portions of paper get over the cover guide, not being aligned along the guide properly.	- Straighten the paper. - Set 5 or less sheets of paper in the ASF.	- Paper feeds at an angle. - A margin appears on printouts.

*1: Change the paper in each Bottom plate cleaning. The cleaning can end when paper does not get any soiling.

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



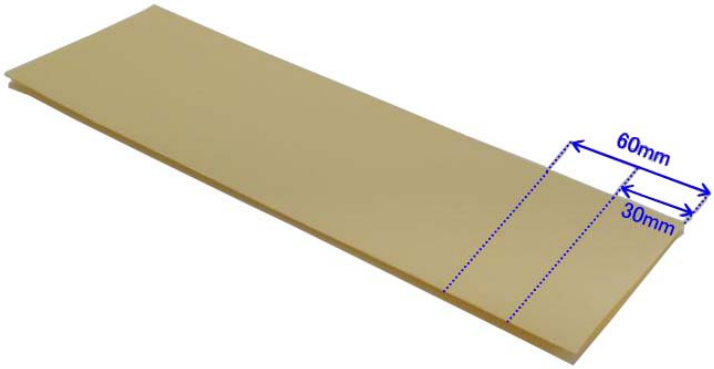


*3: How to prepare and set the ASF sub-roller cleaning sheet:

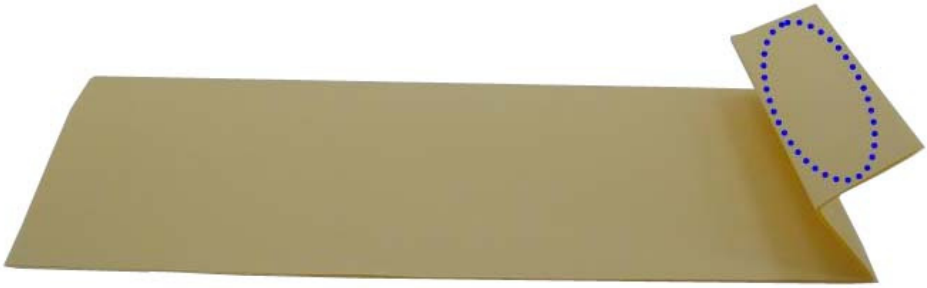
1) Fold a sheet of plain paper lengthwise in half.



2) Fold the paper at approx. 60 mm from the end, and fold the folded end in half backward, as shown below.



3) Moisten the folded end portion (indicated by the blue circle in the figure below) using a wipe, and set the paper in the ASF so that the moistened edge of the paper contacts the 2 sub-rollers. Then, fold the other end of the paper along the ASF cover edge to hook the paper to the ASF cover, as shown below.





4) Press and hold the Stop/Reset button until the Power LED blinks 3 times, then release the button to perform the paper feed roller cleaning. See "Standalone printer operation," for details.

* 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.

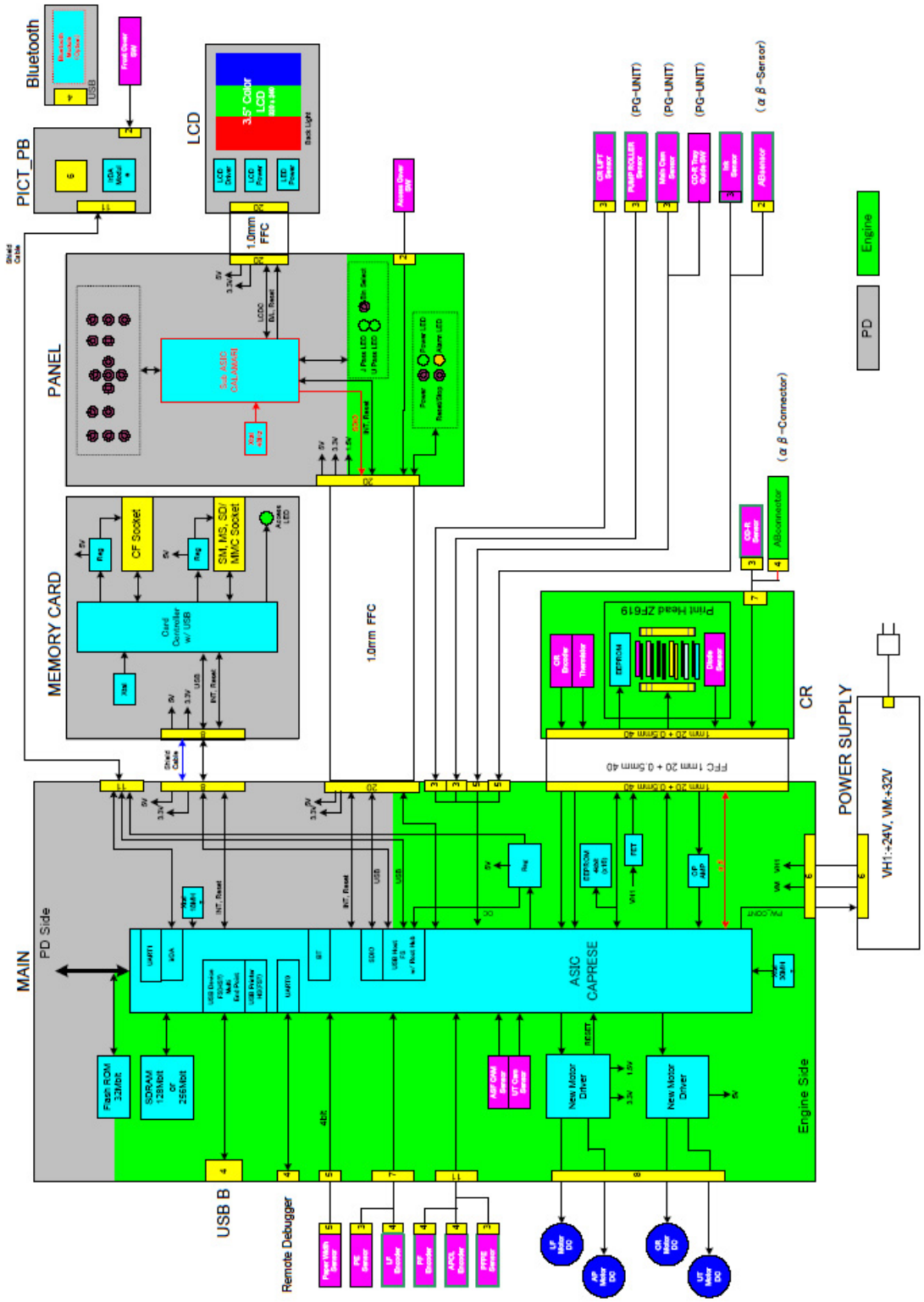
Part 3

APPENDIX



1. BLOCK DIAGRAM

1-1. PIXMA iP6600D



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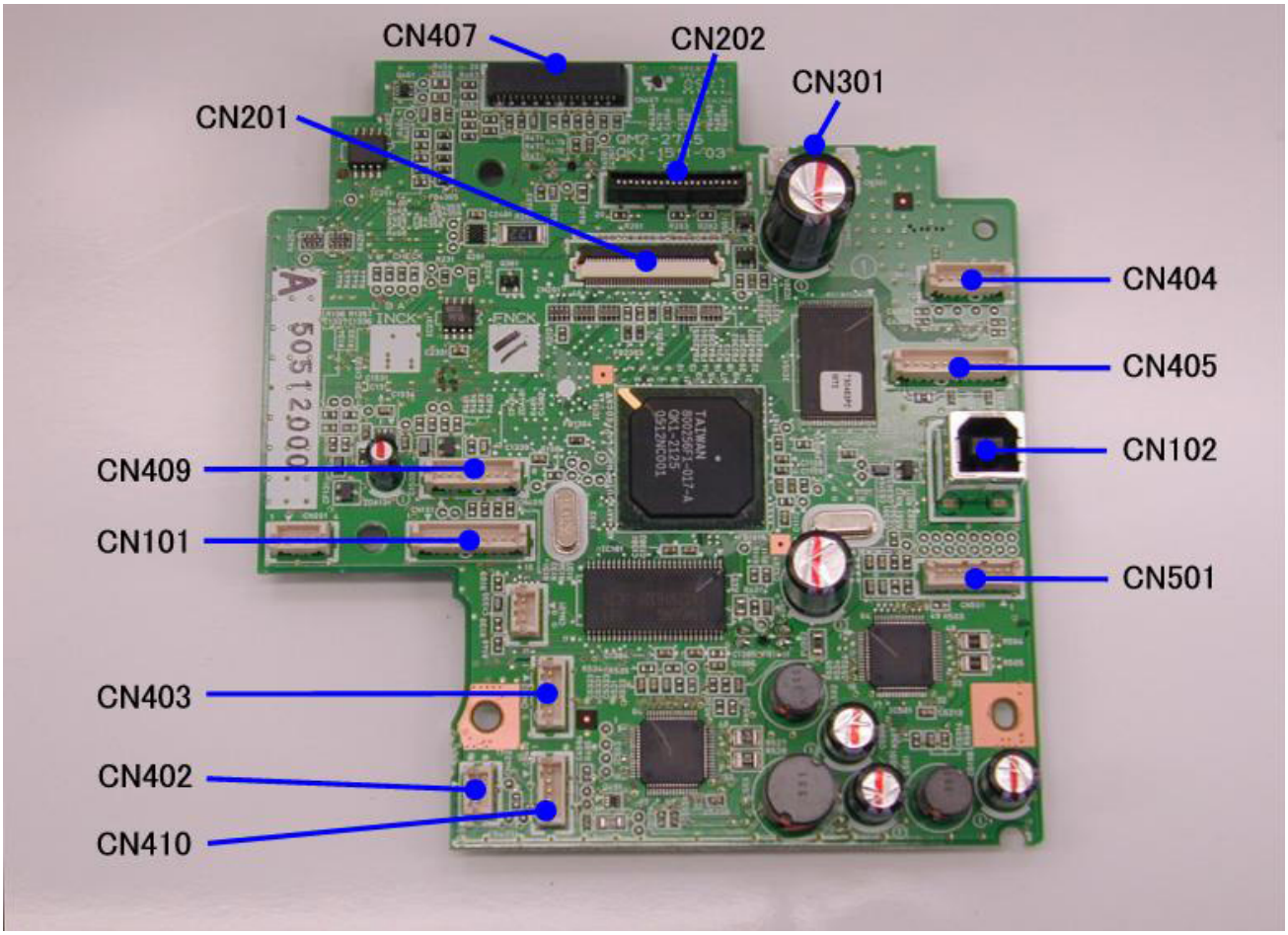
<Part 3: 1. BLOCK DIAGRAM>

2. CONNECTOR LOCATION AND PIN LAYOUT

2-1. Logic Board Ass'y



CN001 (Remote Debugger)

No.	Signal name	Function	Input / Output
1	TXD	Transmit data signal	OUT
2	RXD	Receive data signal	IN
3	GND	Ground	-
4	+3.3V	Power supply	OUT

CN101 (USB1.1 for PictBridge & IrDA)

No.	Signal name	Function	Input / Output
1	F-Gnd	Frame ground	-
2	S-Gnd	Signal ground	-
3	D+	D+ signal	IN/OUT
4	D-	D- signal	IN/OUT
5	VBUS	VBUS power supply	OUT
6	S-Gnd	Signal ground	-
7	IR TXD	IrDA transmit data signal	OUT
8	IR RXD	IrDA receive data signal	IN
9	SNS_FRONT_CVR	Front cover sensor	IN

CN102 (USB 2.0 for PC)

No.	Signal name	Function	Input / Output
1	VBUS	VBUS power supply	OUT
2	D-	D- signal	IN/OUT
3	D+	D+ signal	IN/OUT
4	S-GND	Signal ground	-
5 to 9	F-GND	Frame ground	-

CN201 (Print head 1/2 [Carriage unit J1])

No.	Signal name	Function	Input / Output
1	AB_POW	AB chip power supply	OUT
2	AB_POW	AB chip power supply	OUT
3	AB_DATA	AB data signal	OUT
4	LOGIC_GND	Logic ground	-
5	AB_CLK	AB data transfer clock signal	OUT
6	LOGIC_GND	Logic ground	-
7	COL1-OD[Pk_odd]	Head data even signal 1 [Pk]	OUT
8	COL2-OD[sC]	Head data odd signal 2 [C]	OUT
9	COL1-EV[Pk_even]	Head data odd signal 1 [Pk]	OUT
10	COL2-EV[C]	Head data even signal 2 [C]	OUT
11	sCOL-HENB[sPC]	Head data enable [PC]	OUT
12	COL4-EV[Y_even]	Head data even signal [Y]	OUT
13	COL_HENB1	Color head enable signal 1	OUT
14	H_LATCH	Data latch enable	OUT
15	H_E2PROM_CS	Head EEPROM chip select signal	OUT
16	H_E2PROM_SK	Head EEPROM serial clock signal	OUT
17	COL5-EV[sPM]	Head data even signal [PM]	OUT
18	LOGIC_GND	Logic ground	-
19	H_CLK	Head data transfer clock signal	OUT
20	H_EEPROM_DIO	Head EEPROM serial data	OUT
21	COL6-EV[sM]	Head data even signal [M]	OUT
22	COL3-EV[PC]	Head data even signal [PC]	OUT
23	LOGIC_GND	Logic ground	-
24	CR_ENCB	Carriage encoder signal phase B	IN
25	LOGIC_GND	Logic ground	-
26	CR_ENCA	Carriage encoder signal phase A	IN
27	LOGIC_GND	Logic ground	-
28	DIA1	Diode sensor anode side 1	IN
29	LOGIC_GND	Logic ground	-
30	COL3-OD[sPC]	Head data even column [PC]	OUT

31	COL5-OD[PM]	Head data even column [PM]	OUT
32	COL4-OD[Y_odd]	Head data even column [Y]	OUT
33	COL6-OD[M]	Head data even column [M]	OUT
34	SCS_CDR_P	CDR position sensor signal	IN
35	THERMO	Carriage temperature sensor signal	IN
36	DIK	DIK (logic ground)	-
37	COL_HENB2	Head enable signal 2	OUT
38	VSEN_CDRS	CDR sensor power supply	OUT
39	LOGIC_GND	Logic ground	-
40	VSEN_3.3V	Sensor power supply 3.3V	OUT

CN202 (Print head 2/2 [Carriage unit J2])

No.	Signal name	Function	Input / Output
1 to 3	LOGIC_GND	Head logic ground	-
4 to 7	HVH_24V	Head drive power supply 24V	OUT
8 to 13	H_GND	Head drive ground	-
14, 15	HVDD_3.3V	Head logic power supply 3.3V	OUT
16 to 20	HVH_24V	Head drive power supply 24V	OUT

CN301 (Power supply)

No.	Signal name	Function	Input / Output
1	H_GND	Head ground	-
2	VH	Head power supply	IN
3	H_GND	Head ground	-
4	VM	Motor power supply	IN
5	M_GND	Motor ground	-
6	PW_CONT	Power supply and power control signal	OUT

CN401 (Pump roller sensor)

No.	Signal name	Function	Input / Output
1	VSEN3.3V	Sensor power supply 3.3V	OUT
2	GND	Ground	-
3	SNS_PUMP_R	Pump roller sensor	IN

CN402 (Carriage lift sensor)

No.	Signal name	Function	Input / Output
1	VSEN3.3V	Sensor power supply 3.3V	OUT
2	GND	Ground	-
3	SNS_CR_LIFT	Carriage lift sensor	IN

CN403 (Main cam sensor / CD-R tray feeder sensor multi)

No.	Signal name	Function	Input / Output
1	VSEN3.3V	Sensor power supply 3.3V	OUT
2	GND	Ground	-
3	SNS_MAIN_CAM	Main cam sensor	IN
4	SNS_CDR_G	CDR sensor	IN
5	GND	Ground	-

CN404 (PE sensor / LF encoder multi)

No.	Signal name	Function	Input / Output
1	VSEN_3.3V	Sensor power supply 3.3V	OUT
2	GND	Ground	-
3	SNS_PE	PE sensor	IN
4	GND	Ground	-
5	LF_ENCA	LF encoder phase A	IN
6	VSEN_3.3V	Sensor power supply 3.3V	OUT
7	LF_ENCB	LF encoder phase B	IN

CN405 (PFPE sensor / APCL encoder / PF encoder multi)

No.	Signal name	Function	Input / Output
1	VSEN_3.3V	Sensor power supply 3.3V	OUT
2	GND	Ground	-
3	SNS_PF_PE	PF/PE sensor	IN
4	GND	Ground	-
5	APCL_ENCA	AP encoder phase A	IN
6	VSEN_3.3V	Sensor power supply 3.3V	OUT
7	APCL_ENCB	AP encoder phase B	IN
8	GND	Ground	-
9	PF_ENCA	PF encoder phase A	IN
10	VSEN_3.3V	Sensor power supply 3.3V	OUT
11	PF_ENCB	PF encoder phase B	IN

CN407 (Operation panel / LCD)

No.	Signal name	Function	Input / Output
1	LCD BACK LIGHT	LCD backlight power supply	OUT
2	POWER SWITCH	Power key switch	IN
3	ERROR LED	Alarm LED	OUT
4	POWER LED	Power LED	OUT
5	CARAMARI 1.5V	Sub ASIC internal core power supply 1.5V	OUT
6	GND	Ground	-
7	LCD&CARAMARI 3.3V	LCD and sub ASIC external core	OUT

		power supply 3.3V	
8	GND	Ground	-
9	RESET to PANEL	Panel reset signal	OUT
10	INT from PANEL	Interrupt signal	IN
11	SD_D2	SD data signal D2	IN/OUT
12	SD_D1	SD data signal D1	IN/OUT
13	SD_D0	SD data signal D0	IN/OUT
14	GND	Ground	-
15	SD_CLK	SD data transfer clock signal	OUT
16	GND	Ground	-
17	SD_D3	SD data signal D3	IN/OUT
18	SD_CMD	SD command signal	IN/OUT
19	STOP SWITCH	Stop key switch	IN
20	DOOR SWITCH	Access cover switch	IN

CN409 (Memory card)

No.	Signal name	Function	Input / Output
1	+3.3V	Card PCB logic power supply	OUT
2	D-	D- signal	IN/OUT
3	D+	D+ signal	IN/OUT
4	GND	Ground	-
5	RESET to Card	Card reset signal	OUT
6	INT from Card	Card interrupt signal	IN
7	+5.0V	Card PCB regulator signal	OUT
8	F-GND	Frame ground	-

CN410 (Ink sensor / AB sensor multi)

No.	Signal	Function	Input / Output
1	SNS_INK	Ink sensor	IN
2	GND	Ground	-
3	VSEN_CDRS	CDR sensor power supply	OUT
4	AB_POW	AB sensor power supply	OUT
5	SNS_AB	AB sensor	IN

CN501 (LF / AP / PF / Carriage motor multi)

No.	Signal name	Function	Input / Output
1	PF_M	PF motor +	OUT
2	PF_MIN	PF motor -	OUT
3	AP_MIN	AP motor -	OUT
4	AP_M	AP motor +	OUT
5	LF_M	LF motor +	OUT

6	LF_MIN	LF motor -	OUT
7	CR_M	Carriage motor +	OUT

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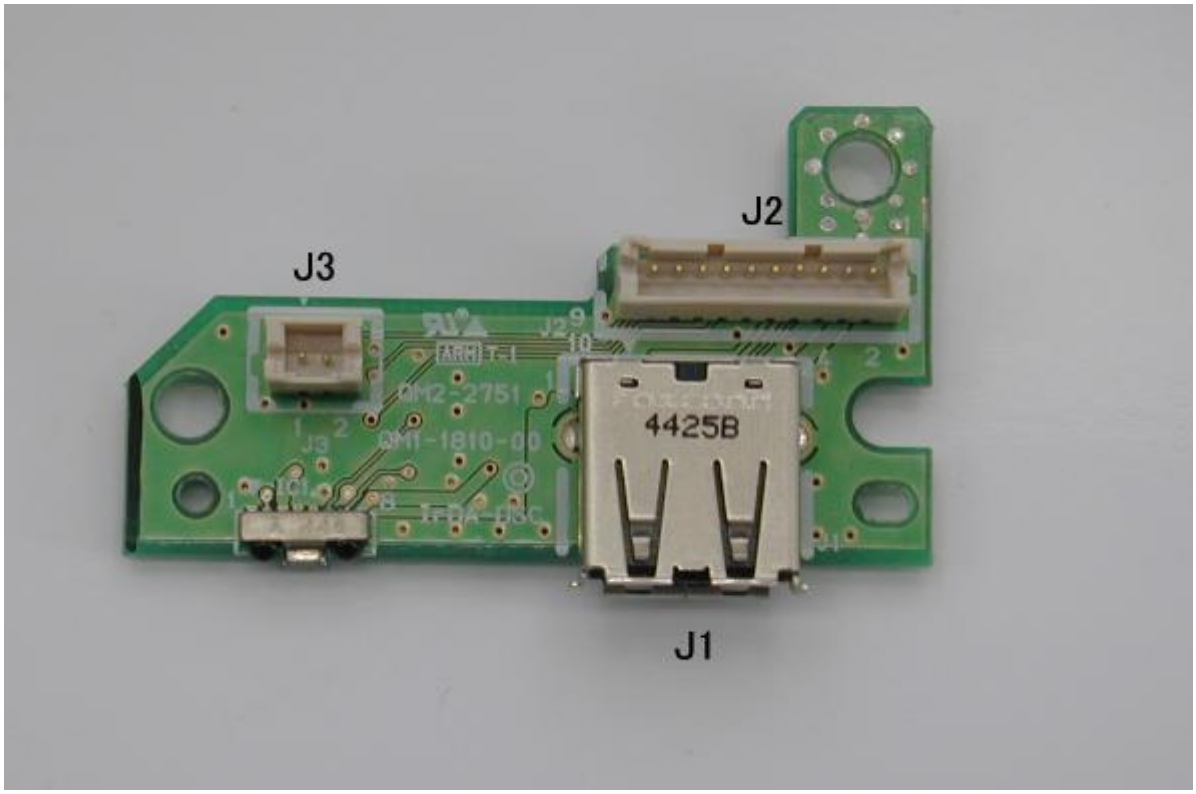
<Part 3: 2. CONNECTOR LOCATION AND PIN LAYOUT, 2-1>

2-2. Print Beam Board



J1 (IrDA I/F [Connect to logic board])

No.	Signal name	Function	Input / Output
1	PICT_VBUS	PictBridge VBUS power supply	IN
2	PICT_D-	D- signal	-
3	PICT_D+	D+ signal	IN/OUT
4	PICT_GND	PictBridge ground	IN/OUT
5, 6	PICT_FG	PictBridge VBUS power supply	IN

J2 (USB A connector)

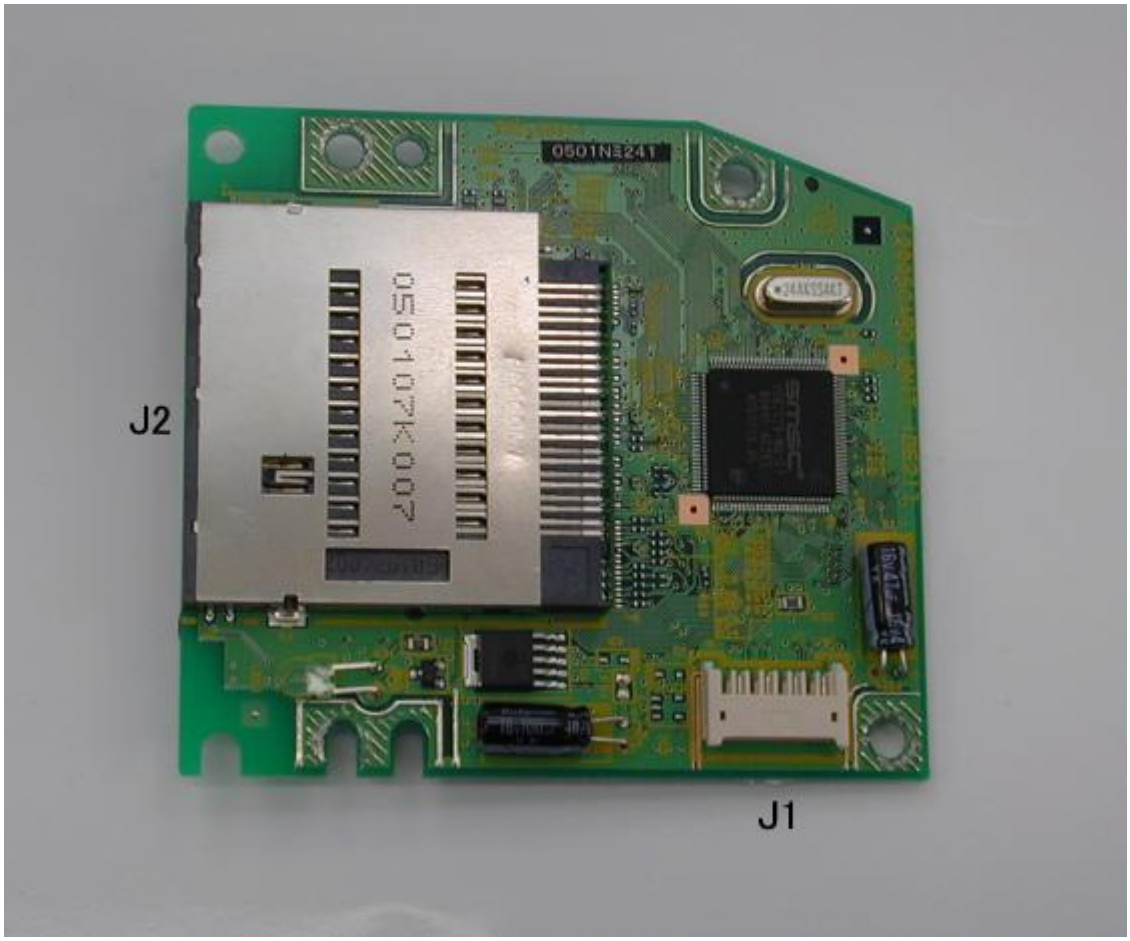
No.	Signal name	Function	Input / Output
1	PICT_FG	PictBridge frame ground	-
2	PICT_GND	Ground	-
3	PICT_D+	D+ signal	IN/OUT
4	PICT_D-	D- signal	IN/OUT
5	PICT_VBUS	PictBridge VBUS power supply	IN
6	GND	Ground	-
7	IR_TXD	IrDA transmit data signal	IN
8	IR_RXD	IrDA receive data signal	OUT

9	FRONT COVER SW	Front cover switch	OUT
10	+3.3V	IrDA power supply	IN

J3 (Front cover switch)

No.	Signal name	Function	Input / Output
1	FRONT COVER SW	Front cover switch	IN
2	GND	Ground	-

2-3. Card Slot Board (Card Slot Unit)



J1 (Memory card I/F [Logic board])

No.	Signal name	Function	Input / Output
1	+3.3V	PD logic power supply	IN
2	D-	D- signal	IN/OUT
3	D+	D+ signal	IN/OUT
4	GND	Ground	-

5	RESETX	Reset signal	IN
6	INTX	Interrupt signal	OUT
7	+5.0V	PD engine power supply	IN
8	F-GND	Frame ground	-

J2 (Memory card connector [SmartMedia, Memory Stick, SD (MMC)])

No.	Signal name	Function	Input / Output
1	SM_WP-IN	SM write-protect	IN
2	SM_BSYX	SM busy	IN
3	SM_D1	SM 16-bit data bus	IN/OUT
4	SM_WEX	SM write enable	IN
5	SM_LVD	SM low voltage detection	IN
6	SM_REX	SM read enable	IN
7	SM_D0	SM 16-bit data bus	IN/OUT
8	SM_ALE	SM address latch enable	IN
9, 10	SM_GND	SM ground	-
11	SM_D7	SM 16-bit data bus	IN/OUT
12	SM_VCC	SM logic power supply	OUT
13	SM_D2	SM 16-bit data bus	IN/OUT
14	SM_CLE	SM command latch enable	IN
15	SM_D6	SM 16-bit data bus	IN/OUT
16	SM_CEX	SM chip enable	IN
17	SD_DAT2	MMC/SD 16-bit data bus	IN/OUT
18	MS_GND	MS ground	-
19	SD_DAT2	MMC/SD 16-bit data bus	IN/OUT
20	MS_VCC	MS logic power supply	OUT
21	MS_SCLK	MS system clock	IN
22	SD_CMD	MMC/SD command	IN/OUT
23	reserve (D3)	MS 16-bit data bus	IN/OUT
24	SD_GND	SD ground	-
25	MS_INS	MS insertion detection	IN
26	Reserve (D2)	MS 16-bit data bus	IN/OUT
27	SD_VCC	SD logic power supply	OUT
28	MS_DIO (D0)	MS 16-bit data bus	IN/OUT
29	MS･VCC	MS logic power supply	IN
30	SD_CLK	MMC/SD clock	IN
31	MS_BS	MS bus state	IN
32	SD_GND	SD ground	-
33	MS_GND	MS ground	-
34	SD_DAT0	MMC/SD 16-bit data bus	IN/OUT

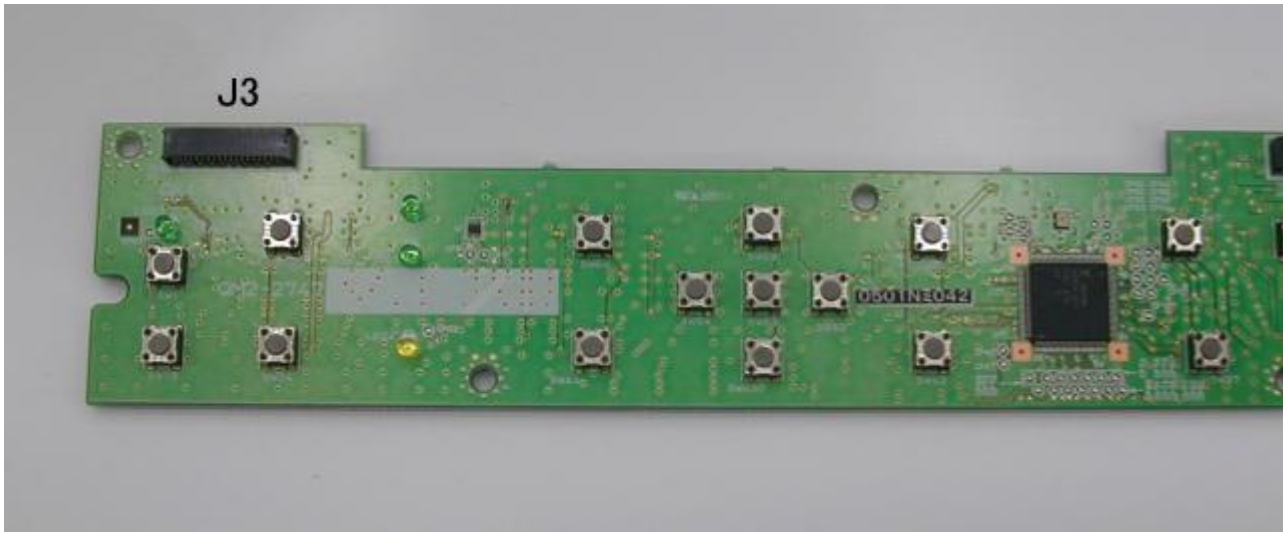
35	SD_DAT1	MMC/SD 16-bit data bus	IN/OUT
36	SM_D5	SM 16-bit data bus	IN/OUT
37	SM_D3	SM 16-bit data bus	IN/OUT
38	SM_GND	SM ground	-
39	SM_GND (SM_CDX)	SM ground	-
40	SM･VCC	SM logic power supply	OUT
41	SM_D4	SM 16-bit data bus	IN/OUT
42	SM_CDSW	SM card detect	OUT
43	SM_CDSW_GND	SM card detect ground	-
44	SD_CD_GND	SD card detect ground	-
45	SD_CD	SD card detect	OUT
46	Frame_GND	Frame ground	-
47	SD_WPSW	SD write-protect	IN
48	SM_WPSW	SM write-protect	IN
49	SM_WPSW_GND	SM write-protect ground	-
50	Frame_GND	Frame ground	-

J3 (Memory card connector [CompactFlash])

No.	Signal name	Function	Input / Output
1	GND	CF ground	-
2	CF_D3	CF 16-bit data bus	IN/OUT
3	CF_D4	CF 16-bit data bus	IN/OUT
4	CF_D5	CF 16-bit data bus	IN/OUT
5	CF_D6	CF 16-bit data bus	IN/OUT
6	CF_D7	CF 16-bit data bus	IN/OUT
7	CF_CS0X	CF chip select	OUT
8	GND (CF_A10)	Ground (CF 24-bit address bus)	-
9	GND (CF_ATASELX)	Ground (CF output enable)	-
10	GND (CF_A9)	Ground (CF 24-bit address bus)	-
11	GND (CF_A8)	Ground (CF 24-bit address bus)	-
12	GND (CF_A7)	Ground (CF 24-bit address bus)	-
13	VCC	CF logic power supply	OUT
14	GND (CF_A6)	Ground (CF 24-bit address bus)	-
15	GND (CF_A5)	Ground (CF 24-bit address bus)	-
16	GND (CF_A4)	Ground (CF 24-bit address bus)	-
17	GND (CF_A3)	Ground (CF 24-bit address bus)	-
18	CF_A2	CF 24-bit address bus	IN/OUT
19	CF_A1	CF 24-bit address bus	IN/OUT
20	CF_A0	CF 24-bit address bus	IN/OUT
21	CF_D0	CF 16-bit address bus	IN/OUT

22	CF_D1	CF 16-bit address bus	IN/OUT
23	CF_D2	CF 16-bit address bus	IN/OUT
24	CF_IOCS16X	CF chip select / 16-bit input/output	IN/OUT
25	CF_CD2X	CF card detect	OUT
26	CF_CD1X	CF card detect	OUT
27	CF_D11	CF 16-bit address bus	IN/OUT
28	CF_D12	CF 16-bit address bus	IN/OUT
29	CF_D13	CF 16-bit address bus	IN/OUT
30	CF_D14	CF 16-bit address bus	IN/OUT
31	CF_D15	CF 16-bit address bus	IN/OUT
32	CF_CS1X	CF chip select	OUT
33	CF_VS1X	CF voltage sense	IN
34	CF_IORDX	CF read strobe input/output	IN/OUT
35	CF_IOWRX	CF write enable input/output	IN/OUT
36	VCC (CF_WEX)	CF logic power supply (write enable)	IN
37	CF_INTRQ	CF interrupt	IN
38	VCC	CF logic power supply	OUT
39	GND (CF_CSELX)	CF ground (chip select)	-
40	CF_VS2X	CF voltage sense	IN
41	CF_RESETX	CF reset	IN
42	CF_IORDY	CF ready input/output	IN/OUT
43	CF_INPACKX	CF card response	IN
44	VCC (CF_REGX)	CF register select	OUT
45	CF_DASPX	Not used	-
46	CF_PDIAGX	Not used	-
47	CF_D8	CF 16-bit address bus	IN/OUT
48	CF_D9	CF 16-bit address bus	IN/OUT
49	CF_D10	CF 16-bit address bus	IN/OUT
50	GND	CF logic ground	-

2-4. Operation Panel Board



J1 (Operation panel board I/F [Main board])

No.	Signal name	Function	Input / Output
1	COVER_SW	Access cover switch	OUT
2	STOP_SW	Stop switch	OUT
3	SDIO_GND	SD data bus ground	-
4	SDIO_D3	SD data bus	IN/OUT
5	GND	Ground	-
6	SDIO_CLK	SD data clock	IN
7	GND	Ground	-
8	SDIO_D0	SD data bus	IN/OUT
9	SDIO_D1	SD data bus	IN/OUT
10	SDIO_D2	SD data bus	IN/OUT
11	INT	Interrupt	OUT
12	RESET	Reset	IN
13	GND	Ground	-
14	3.3V	Control IC external core power supply	IN
15	GND	Ground	-
16	1.5V	Control IC internal core power supply	IN
17	ERROR_LED	Alarm LED output	IN
18	POWER_LED	Power LED output	IN
19	POWER_SW	Power switch input	OUT
20	5V	LCD backlight power supply	IN

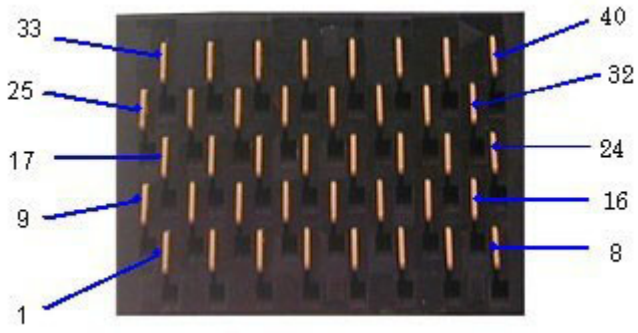
J2 (Cover switch connector)

No.	Signal name	Function	Input / Output
1	COVER_SW	Access cover switch	IN
2	GND	Ground	-

J3 (Operation panel board [LCD UNIT])

No.	Signal name	Function	Input / Output
1	LED_ON	Backlight turn-on operation enable	OUT
2	VSS_LED	Backlight power supply ground	-
3	VLED	Backlight power supply	OUT
4	VLCD_PWM	LCD power supply output voltage adjustment	OUT
5	VLCD_ON	LCD turn-on operation enable	OUT
6	FLM	Operation scanning line synchronous signal	OUT
7	VDD	Logic power supply	OUT
8	D0	Display data	IN/OUT
9	D1	Display data	IN/OUT
10	D2	Display data	IN/OUT
11	D3	Display data	IN/OUT
12	D4	Display data	IN/OUT
13	D5	Display data	IN/OUT
14	D6	Display data	IN/OUT
15	D7	Display data	IN/OUT
16	CL2	Data signal latch clock	OUT
17	DISPX	Display control signal	OUT
18	CL1	Data signal latch clock	OUT
19	FR	LCD operation waveform conversion signal	OUT
20	VSS	Power supply ground	-

2-5. Carriage Board (Print Head Connector)



No.	Signal name	Function	Input / Output
1, 2	B_GNDH	Not used	-
3	VSS	Head logic ground	-
4	DATA_C1	C1 heater serial data input	IN/OUT

5	DATA_PBK1	PBK1 heater serial data input	OUT
6	HVDD	Head logic power supply	OUT
7, 8	B_VH	Heater power supply	OUT
9, 10	B_GNDH	Not used	-
11	B_DIK	Head temperature sensor cathode side	IN
12	DATA_M1	M1 heater serial data input	IN/OUT
13	DATA_Y1	Y1 heater serial data input	IN/OUT
14	DATA_M2	M2 heater serial data input	IN/OUT
15	HVDD	Head logic power supply	OUT
16	B_VH	Heater power supply	OUT
17, 18	B_GNDH	Not used	-
19	DATA_SC1	SC1 heater serial data input	IN/OUT
20	B_HE2	Heat enable signal	OUT
21	DATA_C2	C2 heater serial data input	IN/OUT
22	DATA_SC2	SC2 heater serial data input	IN/OUT
23, 24	B_VH	Heater power supply	OUT
25	B_HE3	Heat enable signal	OUT
26	DATA_PBK2	PBK2 heater serial data input	IN/OUT
27	B_HE1	Heat enable signal	OUT
28	EEPROM_CS	Head EEPROM chip select input	OUT
29	HLAT	Data latch enable	OUT
30	EEPROM_DO	Head EEPROM serial data output	IN
31	DATA_SM2	SM2 heater serial data input	IN/OUT
32	B_VH	Heater power supply	OUT
33	B_DIA	Head temperature sensor anode side	IN
34	DATA_SM1	SM1 heater serial data input	IN/OUT
35	EEPROM_SIK	Head EEPROM serial data clock input signal	OUT
36	HCLK	Clock signal	OUT
37	EEPROM_DI	Head EEPROM serial data input signal	OUT
38	GND	Ground	-
39	DATA_Y2	Y2 heater serial data input	IN/OUT
40	VHT	Head power transistor drive power supply	OUT

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<Part 3: 2. CONNECTOR LOCATION AND PIN LAYOUT, 2-2 to 2-5>

3. PIXMA iP6600D SPECIFICATIONS

<Printer>

Type	Desktop serial color bubble jet printer
Paper feeding method	Auto sheet feed (ASF, cassette, automatic duplex printing, CD / DVD printing[*1])
Resolution	9,600 x 2,400dpi (Max.)
Throughput (target value)	4 x 6, borderless printing: Approx. 46 sec. (standard mode, PP-101, Full Page SCID No. 2) For reference: Fast / Standard Black (Fine Black): 18ppm / 6.5ppm Color (Fine Color): 17ppm / 4.9ppm
Printing direction	Bi-directional, uni-directional
Print width	Max. 203.2mm (215.9mm in borderless printing)
Interface	USB 2.0 Hi-Speed, camera direct print port, IrDA 1.2 (JPEG files only), Bluetooth 1.2 (optional, JPEG files only)
ASF stacking capacity	Plain paper: Max. 13mm (Approx. 150 sheets of 64g/m^2 paper)
Paper weight	64 to 105g/m^2
Detection functions	Access cover open, Presence of print head, Opening / Closing of front door, 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 / DVD[*1], Presence of memory card
Acoustic noise (Highest print quality)	- Highest print quality settings: Approx. 35dB - Quiet mode: Approx. 34.2dB
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 100 to 120V, 50/60Hz: Approx. 17W / Approx. 2W / Approx. 0.8W AC 220 to 240V, 50/60Hz: Approx. 17W / Approx. 2W / Approx. 0.8W
External dimensions	Printer: With the paper support and output tray retracted: Approx. 429 (W) x 304 (D) x 183 (H) mm With the paper support and output tray extended: Approx. 429 (W) x 610 (D) x 308 (H) mm
Weight	Approx.7.2kg, not including print head and optional units
Related standards (Printer, Adapter)	Electromagnetic radiance: VCCI, FCC, IC, CE Mark, Taiwan EMC, 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 (Argentine) 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 on the left of the carriage after the printer is turned off and the panel cover is opened).
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 printer driver Maintenance, or via the operation panel button in Camera Direct Printing, automatic alignment at default)

*1: Only for CD / DVD printing supported regions

<Direct printing>

Memory card drive	Supported memory card	Compact Flash TYPE I/II (3.3V), Microdrive, SmartMedia Card (3.3V only), Memory Stick, Memory Stick PRO, SD Card, MultiMedia Card, xD-Picture Card*, miniSD memory card*, Memory Stick Duo*, Memory Stick PRO Duo*
Storage function	Operation	Via the printer buttons.
	Condition	Before changing the settings, the memory card must be removed.
	Function	Read / Write
Card Direct Printing	Operation panel	3.5 color LCD, 18 buttons, 4 LEDs
	File format	JPEG (DCF, CIFF, Exif 2.21 or prior, JFIF), TIFF (Exif compliant), DPOF compliant
	Supported print paper	[See 4, PRINT MEDIA SPECIFICATIONS]
	Print quality	Standard, High
	Image correction function	Red-eye correction, Photo Optimizer PRO, VIVID, noise reduction, face brightener, image optimizer
	Image adjustment function	Brightness, contrast, hue (skin tones)
	Image processing function	Sepia, illustrated touch, no processing
	Image retrieval function	Available (date)
	DPOF	Ver. 1.00 compliant Index printing, printing of an image the specified number of copies, printing of the specified image(s), printing with the shooting date
	Print layout	Single-photo/multi-photo/all-photo printing: 1 photo per page (borderless/with borders, only with borders for plain paper)
		DPOF printing: 1 photo per page (borderless/with borders) 6, 15, 24, 35, 80 photos per page 30 photos per page (panorama)
		Index printing: 6, 15, 24, 35, 80 photos per page 30 photos per page (panorama)
		Layout printing: 2, 4, 8 photos per page (borderless/with borders) Postcard (borderless/with borders, with/without lines) Album (4 photos per page, right/left) Mix 3 types (for A4/LTR)
		Sticker printing: 2, 4, 9, 16 stickers 1, 5, 6, 7 stickers (for free-cut)
		CD/DVD printing*1
	Information print	Date, file name, and photo information printing
		Approx. 1 minutes 17 seconds, with the following conditions and settings:

	Throughput	- A photo from a 5 mega-pixel digital camera - 4 x 6 borderless - Exif print - Standard print quality - Process from pressing the printing start button to ejecting paper
Camera Direct Printing	Supported digital camera	Digital cameras and digital video cameras supporting Bubble Jet Direct or PictBridge
	Supported print paper	[See 4, PRINT MEDIA SPECIFICATIONS]
	Print layout	- 1 photo per page (borderless/with borders) - Index printing (standard / multiple photos per page) - 2, 4, 9, 16 photos per page
	Information print	Date, file name, photo information
	Throughput	Approx. 1 minute and 17 seconds, with the following conditions and settings: - A photo from a 5 mega-pixel digital camera - 4 x 6 borderless - Standard print quality - Process from pressing the printing start button to ejecting paper
Print Beam printing	Supported mobile phone	Mobile phone equipped with IrDA 1.2 port, or with Bluetooth 1.2 port (when the optional BU-20 is attached to the printer)
	Printable data	Image (JPEG only, text printing not possible)
	Supported print paper	[See 4, PRINT MEDIA SPECIFICATIONS]
	Supported layout	1, 2, 4, 8 images per page (borderless) 1, 2, 4, 5, 6, 7, 8, 9, 16 images per page (bordered)
Printing via Bluetooth communication (optional)	Standard	Bluetooth version 1.2
	Output	Bluetooth Power Class 2
	Communication range	Good for approx. 10 m in radius (depending on interference between the communication devices, or radio wave conditions)
	Frequency band	2.4GHz
	Communication speed	Approx. 720kbps
	Supported profile	BIP, OPP, SPP, HCRP
	Supported OS for HCRP	- Windows XP Service Pack 2 or later - Windows XP Service Pack 1 or later: Microsoft "Support for Bluetooth Wireless Devices" or Toshiba Bluetooth Stack for Windows Ver. 3.00.10 or later has to be installed - Mac OS X 10.3.3 or later
	BU-20 external dimensions	18.5 (W) x 47.5 (D) x 8.7 (H) mm with a cap
	BU-20 weight	Approx. 7g
	BU-20 power supply voltage	4.4 to 5.25V
	BU-20 power consumption	500mW (max.)
	BU-20 operating temperature	5C to 35C (41F to 95F)
	BU-20 operating humidity	10%RHto 90%RH (no condensation)

* Adapter required.

*1: Only for CD / DVD printing supported regions

<Print head>

Type	Single head with 6 removable ink tanks (each color)
Print head	Dye-based BK / C / M / Y / PC / PM: 512 x 6 nozzles, 1,200 dpi, 1 pl / 5 pl (C / PC / M / PM), 5 pl (BK / Y)
Ink color	Dye-based black, cyan, magenta, yellow, photo cyan, photo magenta
Ink tank	CLI-8BK / C / M / Y / PC / PM (dye-based)
Weight (Net)	Print head, approx. 55g
Supply method	As a service part (not including ink tanks)
Part number	QY6-0063-000

<Supported ink tanks>

Model name and destination		BCI-7eBK	BCI-7eC	BCI-7eM	BCI-7eY	BCI-7ePC	BCI-7ePM	CLI-8BK	CLI-8C	CLI-8M	CLI-8Y	CLI-8PC	CLI-8PM
		Dye-based ink											
PIXUS iP6600	Japan	O	O	O	O	O	O	X	X	X	X	X	X
PIXMA iP6600	Other than Japan	X	X	X	X	X	X	O	O	O	O	O	O

O: Usable

X: Not usable

Note: The ink tanks for the Japanese models are not compatible with those for the non-Japanese models. Be sure to use the appropriate ink tanks in servicing.

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4. PRINT MEDIA SPECIFICATIONS

<Plain paper / specialty paper>

The following types of paper are recommended:

Type	Name	Size	Paper feeding method (auto)	ASF stacking capacity (max.)	Camera Direct Printing	Card Direct Printing	Print Beam Printing
Plain paper	64 to 105 g/m^2	A4, B5, LTR, A5, LGL[*1]	ASF, Cassette	13 mm	Yes[*2]	Yes	Yes
Super White Paper	SW-101/201	A4, LTR	ASF, Cassette	13 mm			
High Resolution Paper	HR-101	A4, B5, LTR	ASF, Cassette	Approx. 80 sheets			
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	Yes	
	GP-501	A4, LTR	ASF, Cassette	10 sheets	Yes	Yes	Yes
	GP-501 4x6	101.6 x 152.4 mm	ASF, Cassette	20 sheets	Yes	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
	PR-101 4x8	101.6 x 203.2 mm	ASF, Cassette	20 sheets			
Photo Paper Plus Glossy	PP-101	A4, LTR	ASF, Cassette	10 sheets	Yes		
	PP-101 4x6	101.6 x 152.4 mm	ASF, Cassette	20 sheets	Yes		
	PP-101 5x7	127 x 178 mm	ASF, Cassette	10 sheets	Yes		
Matte Photo Paper	MP-101	A4, LTR	ASF, Cassette	10 sheets		Yes	Yes
	MP-101 4x6	101.6 x 152.4 mm	ASF, Cassette	20 sheets		Yes	Yes
Photo Paper Plus Semi-gloss	SG-101	A4, LTR	ASF, Cassette	10 sheets	Yes	Yes	
	SG-101 4x6	101.6 x 152.4 mm	ASF, Cassette	20 sheets	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			
Envelope	COM #10	241 x 105 mm	ASF / Cassette	10 / 5 envelopes			
	DL-size	220 x 110 mm	ASF / Cassette	10 / 5 envelopes			

*1: ASF only for LGL

*2: When A4 or LTR is selected for Paper Size, plain paper is selectable for Paper Type. With plain paper selected for Paper Type, printing is done with borders even when borderless printing is selected.

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