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BJC-6500

SERVICE MANUAL

REVISION 0

Canon

OCT. 1999

QY8-1368-000

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BJC-6500

SERVICE MANUAL

Canon

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This manual is published by Canon Inc. for qualified persons and contains the necessary technical information for technical theory, installation, maintenance, and repair of products. This manual covers all localities where the products are sold. For this reason, it may contain information that does not apply to your locality.

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This manual was produced on an Apple Macintosh™ Power Mac 9600/233 personal computer and Apple LaserWriter™ II NTX-J laser beam printer; final pages were printed on Varityper™ 5300 with 4000-J RIP.
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All graphics were produced with MACROMEDIA FREEHAND™ 7.0J.
All documents and all page layouts were created with QuarkXPress™ 3.3J.

I. ABOUT THIS MANUAL

This manual is divided into five parts containing the information required for servicing the BJC-6500 printer.

Part 1: PRODUCT SPECIFICATIONS

This part outlines the product and its specifications.

Part 2: MAINTENANCE

This part explains maintenance of the unit. It includes precautions and details for disassembly and assembly, and adjustments required when assembling.

Part 3: OPERATION

This part explains how to operate the unit properly, and how to use the service mode.

Part 4: TROUBLESHOOTING

This part explains how to resolve problems of the unit, and contains information on how to locate and replace serviceable units and parts. It is divided into two sections: "Troubleshooting by Errors" and "Troubleshooting by Symptoms."

Part 5: REFERENCE

This part outlines the unit operation giving technical information on hardware, and contains block diagrams, pin assignments, and wiring/circuit diagrams.

This manual does not contain complete information required for disassembling and assembling the BJC-6500 printer. Please also refer to the separate Parts Catalog.

II. TABLE OF CONTENTS

Page

Part 1: PRODUCT SPECIFICATIONS

1 - 1 1. PRODUCT OUTLINE
1 - 1 1.1 Product Outline
1 - 2 1.2 Features
1 - 3 2. SPECIFICATIONS
1 - 3 2.1 General Specifications
1 - 3 2.1.1 Printer specifications
1 - 4 2.1.2 Product life
1 - 4 2.2 Paper Specifications
1 - 4 2.2.1 Paper sizes
1 - 4 2.2.2 Paper type/settings
1 - 4 2.2.3 Printable area
1 - 5 2.3 BJ Cartridge Specifications
1 - 6 2.4 Scanner Cartridge Specifications
1 6 2.4.1 Scannable area
1 - 7 2.5 Interface Specifiocations
1 7 2.5.1 Parallel interface
1 7 2.5.2 Serial interface
1 - 8 2.6 Printer Driver/Scanner Driver Types
1 - 9 3. PRINTER PACKING
1 -10 4. NAMES OF PARTS AND THEIR FUNCTIONS
1 11 5. PRODUCT CODE LIST

Part 2: MAINTENANCE

2 - 1 1. PERIODICAL REPLACEMENT/MAINTENANCE
2 - 1 1.1 Parts for Periodical Replacement
2 - 1 1.2 List of Periodical Maintenance
2 - 2 2. DISASSEMBLY AND REASSEMBLY
2 - 2 2.1 List of Tools
2 - 3 2.2 Precautions for Disassembly and Reassembly
2 - 3 2.2.1 Precautions for ink stains (ink paths/ink mist)
2 - 4 2.2.2 Precautions for damage due to static electricity
2 - 5 2.2.3 Precautions for transporting the printer
2 - 5 2.2.4 Precautions on spur tip deformation
2 - 6 2.3 Disassembling and Reassembling the Printer
2 - 6 2.3.1 Unlocking the carriage
2 - 6 2.3.2 Reinstalling tap screws
2 - 7 2.3.3 Removing the printer unit
2 - 8 2.3.4 Removing the ASF unit
2 - 8 2.3.5 Removing the adjustable bushings supporting the carriage shaft
2 - 9 2.3.6 Paper feed gear handling
2 - 9 2.3.7 Spur holder assembly installation
2 -10 2.3.8 Grease application points
2 -11 2.4 Adjustment/Setting Procedures
2 -11 2.4.1 Adjustments (item, adjustment points, tools)
2 -12 2.4.2 When to perform print head position adjustment
2 -13 2.4.3 When to reset the EEPROM
2 -13 2.4.4 How and when to adjust the carriage belt tension
2 -14 2.4.5 How to adjust the ASF gear position
2 -16 2.4.6 How to adjust the head gap
2 -18 3. CONFIRMATION OF OPERATION
2 -18 3.1 Confirmation Methods

2 -19 4. TRANSPORTING THE PRINTER
2 -19 4.1 Procedures for Packing the Printer for Transportation

Page *Part 3: OPERATION*
3 - 1 1. FUNCTIONS RELATED TO PRINTER OPERATION
3 - 1 1.1 Status Display
3 - 2 1.1.1 Status display via the indicator
3 - 4 1.1.2 Status display via the BJ status monitor
3 - 5 1.2 Operations from the Computer
3 - 5 1.2.1 Function settings using the printer driver
3 - 6 1.3 Operations from the Printer
3 - 6 1.3.1 Cleaning
3 - 6 1.3.2 Nozzle check pattern printing
3 - 8 2. SERVICE FUNCTIONS
3 - 8 2.1 Service Mode Operations
3 - 9 2.2 Printing the Service/Factory Test Print
3 -10 2.3 Printing the EEPROM Information
3 -11 2.4 Resetting the EEPROM
3 -11 2.5 Setting the Model
3 -11 2.6 Checking the Presence of Ink
3 -11 2.7 Conducting the Print Head Position Adjustment
3 -11 2.8 Powering Off and Locking the Carriage

Part 4: TROUBLESHOOTING
4 - 1 1. TROUBLESHOOTING BY DISPLAYED ERRORS
4 - 1 1.1 Initial Flowchart
4 - 5 1.2 Error Indications (Indicator, Beeper, Error Code)
4 - 6 1.3 Troubleshooting by Errors
4 -19 2. TROUBLESHOOTING BY SYMPTOMS
4 -19 2.1 Troubleshooting by Symptoms

Page *Part 5: REFERENCE*
5 - 1 1. TECHNICAL REFERENCE
5 - 1 1.1 Functions of the Paper Feed Unit
5 - 2 1.2 Construction of the Paper Feed Unit
5 - 3 1.3 Form Alignment Function
5 - 4 1.4 Transmission Gear Unit
5 - 5 1.5 Detection with Sensors
5 - 5 1.6 BJ Cartridge Indenrification
5 - 6 2. CONNECTOR POSITIONS AND PIN ASSIGNMENT
5 - 6 2.1 Control Board
5 -11 2.2 Carriage Board
5 -14 2.3 BJ Cartridge
5 -15 2.4 Scanner Cartridge (Optional)
5 -16 2.5 AC Adapter
5 -16 2.6 DC Power Supply Cable
5 -17 2.7 Carriage Motor
5 -17 2.8 Paper Feed Motor
5 -17 2.9 Paper End Sensor
5 -18 2.10 Ink Sensor
5 -18 2.11 Print Position Sensor
5 -18 2.12 Pump Sensor
5 -19 3. INSTALLATION
5 -19 3.1 Installation
5 -19 3.1.1 Installation location
5 -19 3.2 Installation Procedures
5 -19 3.2.1 Connecting the interface cable
5 -19 3.2.2 Connecting the power supply
5 -20 4. MISCELLANEOUS
5 -20 4.1 Similarities and Differences to the BJC-6100

III. ILLUSTRATION INDEX

Page		
	Part 1: PRODUCT SPECIFICATIONS	
1 - 1	Figure 1- 1	Printer Appearance
1 - 5	Figure 1- 2	Printable Area
1 - 6	Figure 1- 3	Scannable Area
1 - 9	Figure 1- 4	Packaging
1 -10	Figure 1- 5	Names of Parts and Their Functions
	Part 2: MAINTENANCE	
2 - 3	Figure 2- 1	Ink Paths
2 - 4	Figure 2- 2	Ink Mist
2 - 5	Figure 2- 3	Capping Position
2 - 5	Figure 2- 4	Spur Unit
2 - 6	Figure 2- 5	Unlocking the Carriage
2 - 7	Figure 2- 6	Removing the Printer Unit
2 - 8	Figure 2- 7	Removing the ASF Unit
2 - 8	Figure 2- 8	Adjustable Bushings Supporting the Carriage Shaft
2 - 9	Figure 2- 9	Paper Feed Gears
2 - 9	Figure 2- 10	Spur Holder Ass'y Installation
2 -10	Figure 2- 11	Grease Points
2 -12	Figure 2- 12	Print Position Adjustment Pattern
2 -13	Figure 2- 13	Carriage Belt Tension Adjustment
2 -14	Figure 2- 14	ASF Gear Position Adjustment 1
2 -15	Figure 2- 15	ASF Gear Position Adjustment 2
2 -16	Figure 2- 16	Head Gap Adjustment 1
2 -17	Figure 2- 17	Head Gap Adjustment 2
	Part 3: OPERATIONS	
3 - 1	Figure 3- 1	Operation Panel
3 - 4	Figure 3- 2	BJ Status Monitor (Sample)
3 - 5	Figure 3- 3	Printer Driver Utility (Sample)
3 - 7	Figure 3- 4	Nozzle Check Pattern Print (Sample for Black/Color Cartridge)
3 - 9	Figure 3- 5	Service/Factory Test Print
3 -10	Figure 3- 6	EEPROM Information Print (Sample)
3 -11	Figure 3- 7	Checking for Presence of Ink

Part 5: REFERENCE

5 - 1	Figure 5- 1	Paper Feed Path
5 - 2	Figure 5- 2	Paper Pick-up Unit
5 - 3	Figure 5- 3	Form Alignment Function
5 - 3	Figure 5- 4	Form Alignment Function On/Off
5 - 4	Figure 5- 5	Drive Switching Unit
5 - 4	Figure 5- 6	Operation of the Drive Switching Unit
5 - 5	Figure 5- 7	Sensor Positions
5 - 6	Figure 5- 8	Control Board
5 - 6	Figure 5- 9	Block Diagram
5 -11	Figure 5- 10	Carriage Board
5 -14	Figure 5- 11	BJ Cartridge
5 -15	Figure 5- 12	Scanner Cartridge
5 -16	Figure 5- 13	AC Adapter
5 -16	Figure 5- 14	DC power Supply Cable
5 -17	Figure 5- 15	Carriage Motor
5 -17	Figure 5- 16	Paper Feed Motor
5 -17	Figure 5- 17	Paper End Sensor
5 -18	Figure 5- 18	Ink Sensor
5 -18	Figure 5- 19	Print Position Sensor
5 -18	Figure 5- 20	Pump Sensor
5 -19	Figure 5- 21	Printer Dimensions

IV. TABLE INDEX

Page

Part 3: OPERATION

3 - 2 TABLE 3- 1 STATUS DISPLAY VIA THE INDICATOR

Part 4: TROUBLESHOOTING

4 - 5 TABLE 4- 1 ERROR INDICATIONS

Part 1

PRODUCT SPECIFICATIONS

Page	
1 - 1	1. PRODUCT OUTLINE
1 - 1	1.1 Product Outline
1 - 2	1.2 Features
1 - 3	2. SPECIFICATIONS
1 - 3	2.1 General Specifications
1 - 4	2.2 Paper Specifications
1 - 4	2.3 BJ Cartridge Specifications
1 6	2.4 Scanner Cartridge
1 - 7	2.5 Interface Specifications
1 - 8	2.6 Printer Driver Types
1 - 9	3. PRINTER PACKING
1 -10	4. NAMES OF PARTS AND THEIR FUNCTIONS
1 11	5. PRODUCT CODE LIST

1. PRODUCT OUTLINE

1.1 Product Outline

This printer is a BJC-6100 leveraged printer, attaining high performance in a business-use setting. It supports on A3 size paper, and utilizes the BJC-6100 printer engine to achieve high-speed/high-quality printing.

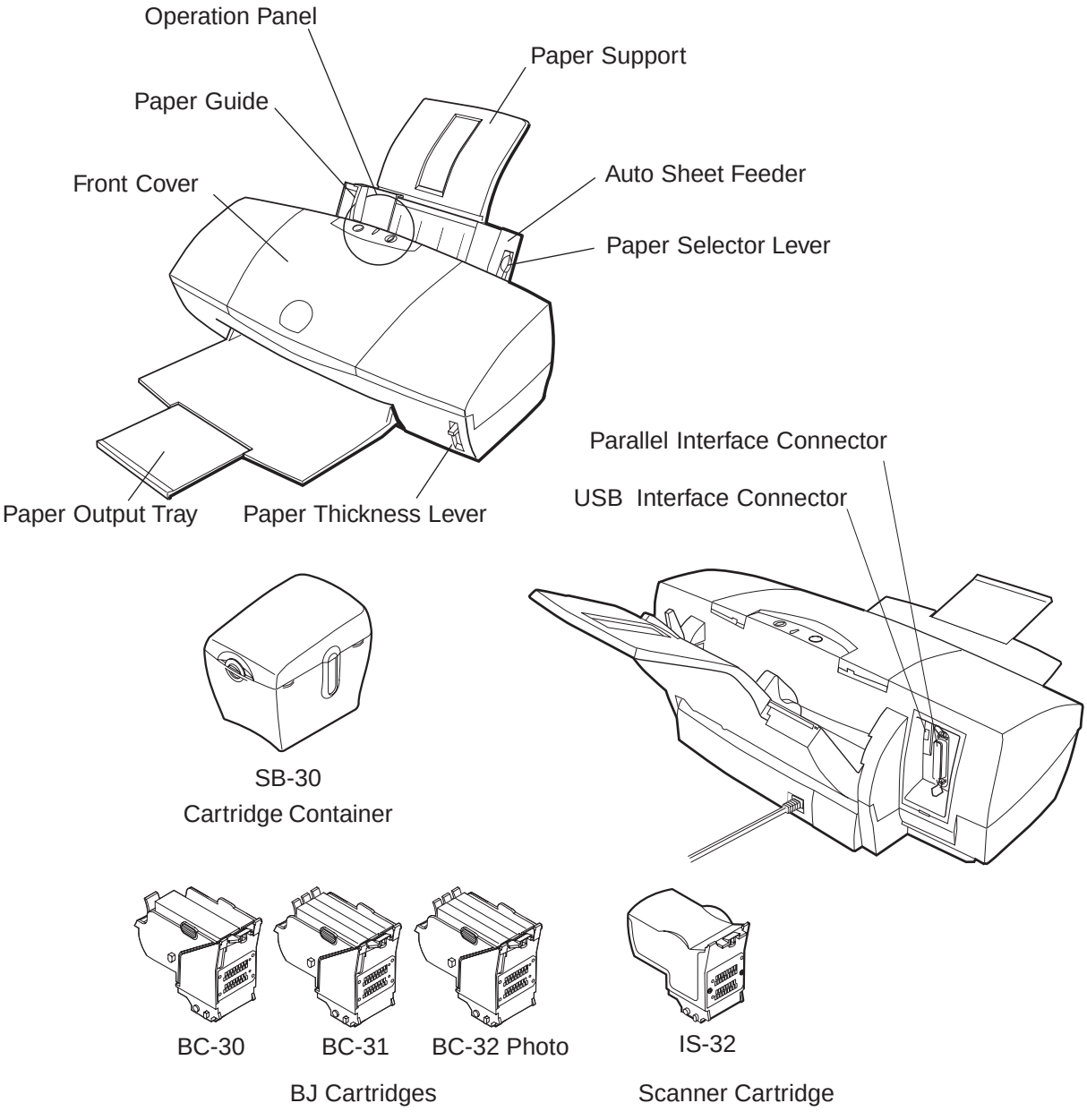

Figure 1-1 Printer Appearance

1.2 Features

This printer differs from the BJC-6100 in the following ways:

1. Supported paper size has increased from A4 to A3
2. Automatic Form Alignment Function (improves skew control) n/a→built-in

For details, refer to *Part 5: REFERENCE* (Page 5-20).

Other functions remain commonly shared with the BJC-6100, as follows.

- Laser-printer quality using pigment black ink
- Dual-cartridge system
  High quality printing at high speed from a combination of the Black and Color cartridges or the Color and Photo cartridges

  Black BJ cartridge: Drop modulation, replaceable ink tank (pigment black), 160 nozzle head
  Color BJ cartridge: Drop modulation, individually replaceable ink tanks (yellow, magenta and cyan), 144 in-line nozzle head (48 nozzles for each of three colors)
  Photo BJ cartridge: Drop modulation, individually replaceable ink tanks (dye black, photo-magenta and photo-cyan), 144 in-line nozzle head (48 nozzles for each of three colors)
- Individually replaceable ink tanks for high cost performance
  Black ink tanks: Pigment black ink tank
  Color ink tanks: Yellow, magenta, and cyan ink tanks
  Photo ink tanks: Dye black, magenta, and cyan ink tanks
  Ink-out detection, and translucent ink tanks for easier ink level checking
- High speed printing (9.0 PPM black printing or 6.0 PPM color printing in HS mode)
  1440 x 720 dpi high resolution printing
- Automatic printing position adjustment
  Ensures accurate printing position regardless of cartridges being used or carriage movement direction
- Supports a wide variety of print media
- Blue Angel compliant
- USB and IEEE 1284 compatible 8-bit parallel interfaces.
- Optional scanner cartridge with maximum readout resolution of 720×720 dpi also available.

2. SPECIFICATIONS

2.1 General Specifications

2.1.1 Printer specifications

Type	Desktop serial color bubble-jet printer			
Paper feeding method	Automatic sheet feeder (no manual feed)			
Resolution	1440dpi x 720dpi (maximum resolution)			
Throughput		HS	HQ	Fine
	BC-30 + BC-31			
	Black Text (PC Magazine)	8.0ppm	6.5ppm	...
	Black (New Black)	9ppm	7.1ppm	...
	Color (New Color)	6ppm	4.6ppm	...
	BC-32Photo + BC-31			
	Photo	...	...	0.17ppm
Printing direction	HS mode:		Bi-directional	
	HQ mode: (360dpi x 360dpi):		Bi-directional	
	Fine mode (720dpi x 720dpi):		Uni-directional	
	Fine mode (1440dpi x 720dpi):		Uni-directional	
Printing width	289.6mm			
Line feed speed	HQ, HS mode 4 "/S			
Interface	IEEE 1284-compatible 8-bit parallel interface (Compatible/nibble/ECP), USB			
Automatic sheet feeder capacity				
Plain paper:	10 mm max. stacking height (about 100 sheets of 64 g/m² paper)			
High-resolution paper:	10 mm max. stacking height (about 80 sheets of High-resolution paper)			
Detection functions				
Cover open:	Yes	Paper detection:	Yes	
BJ cartridge installed:	Yes	Ink-out :	Yes	
Print position detection:	Yes	Waste ink amount:	Yes	
BJ cartridge identification:	Yes	Paper width detection:	No	
Pick-up roller position:	Yes			
Acoustic noise during operation				
Approx. 48 dB / HQ mode (Sound pressure level: compliant with ISO9296)				
Environmental conditions				
Operating:	5 to 35°C (41 to 95° F), 10 to 90% RH (no condensation)			
Storage:	0 to 35°C (32 to 95° F), 5 to 95% RH (no condensation)			
Power consumption	Operating	Standby		
	Approx. 30 W max.	Approx. 3 W max.		
External dimensions	574 mm W x 328mm D x 205 mm H			
Weight	6.8 kg, including BJ cartridges			
Certification				
Electromagnetic radiance:	VDE0871 CLASS B, CISPR PUBLICATION '22			
Electrical safety:	Energy Star, IEC950, AS, GS, FIMCO, SEMCO, SISIR, Electrical Safety Regulations of Korea, CCIB (China), CE Mark, EI, MEMCO			
Environmental regulations:	Energy Star, Blue Angel			
Serial No. location	On the printer frame (visible when the front cover is open)			

2.1.2 Product life

The print quality can be assured during the product life given below, if the specified maintenance is conducted.

(1) Monochrome printing 60,000 sheets (1500 ANK character pattern) OR,
(2) Color printing 12,000 sheets (7.5% duty per color pattern) OR,
(3) 5 years (from the start of use), whichever comes first

2.2 Paper Specifications

2.2.1 Paper sizes

(1) Paper size
A5, A4, A3 (V), B5, B4 (V), Letter, Legal, A4+, Letter+, Envelope Com #10/DL, Other (100 x 100 ~ 297 x 584mm)
(2) Paper weight
Automatic Sheet Feeder: 64 ~ 105 g/m^2

2.2.2 Paper type/settings

Paper Type		Stacked in the ASF	Paper selector lever position	Paper thickness lever position
Plain paper (64 g/m^2)		Approx. 10mm or less (Approx. 100 sheets)	Back	Up
Color BJ paper	LC-301	Approx. 10mm or less	Back	Up
High-resolution paper	HR-101	Approx. 10mm or less (Approx. 80 sheets)	Back	Up
Glossy photo paper	GP-301	1 sheet (portrait)	Forward	Up
Glossy photo film	HG-201	1 sheet	Forward	Up
OHP film	CF-102	30 sheets or less	Back	Up
Back print film	BF-102	10 sheets or less	Back	Up
BJ cloth	FS-101	1 sheet	Forward	Down
Banner paper	BP-101	1 sheet	Forward	Down
T-shirt transfer	TR-201	1 sheet	Forward	Down
Glossy photo card	FM-101	1 sheet	Forward	Up
Envelope	Com. #10 DL	10 sheets or less (portrait)	Forward	Down
Thick paper		1 sheet	Forward	Down

If the Paper Selector Lever/Paper Thickness Lever are incorrectly set for the paper used, paper feeding or printing problems may occur. For details on the lever positions, refer to *Part 1: PRODUCT SPECIFICATIONS* (Page 1-10).

2.2.3 Printable area

Refer to Figure 1-2 Printable Area.

2.3 BJ Cartridge Specifications

	Black BJ cartridge	Color BJ cartridge	Photo BJ cartridge
Construction:	Separate ink tank	Separate ink tank	Separate ink tank
Print head:	160 nozzles, in-line	144 nozzles, in-line (48 nozzles x 3)	144 nozzles in-line (48 nozzles x 3)
Inks:	Pigment black	C, M, Y	Photo-Bk, Photo-C, Photo-M
Cartridge life:	Approx. 5000 pages*	Approx. 3000 pages**	Approx. 3000 pages**
Ink tank:	Black	C, M, Y	Photo-Bk, Photo-C, Photo-M
Ink tank life:	Approx. 500 pages*	Approx. 280 pages**	Approx. 280 pages**
Cartridge weight: (w/o ink tank)	Approx. 60 g	Approx. 60 g	Approx. 60 g

* **Monochrome printing** (1500-character, HQ mode)
** **Color printing** (7.5% duty, HQ mode)

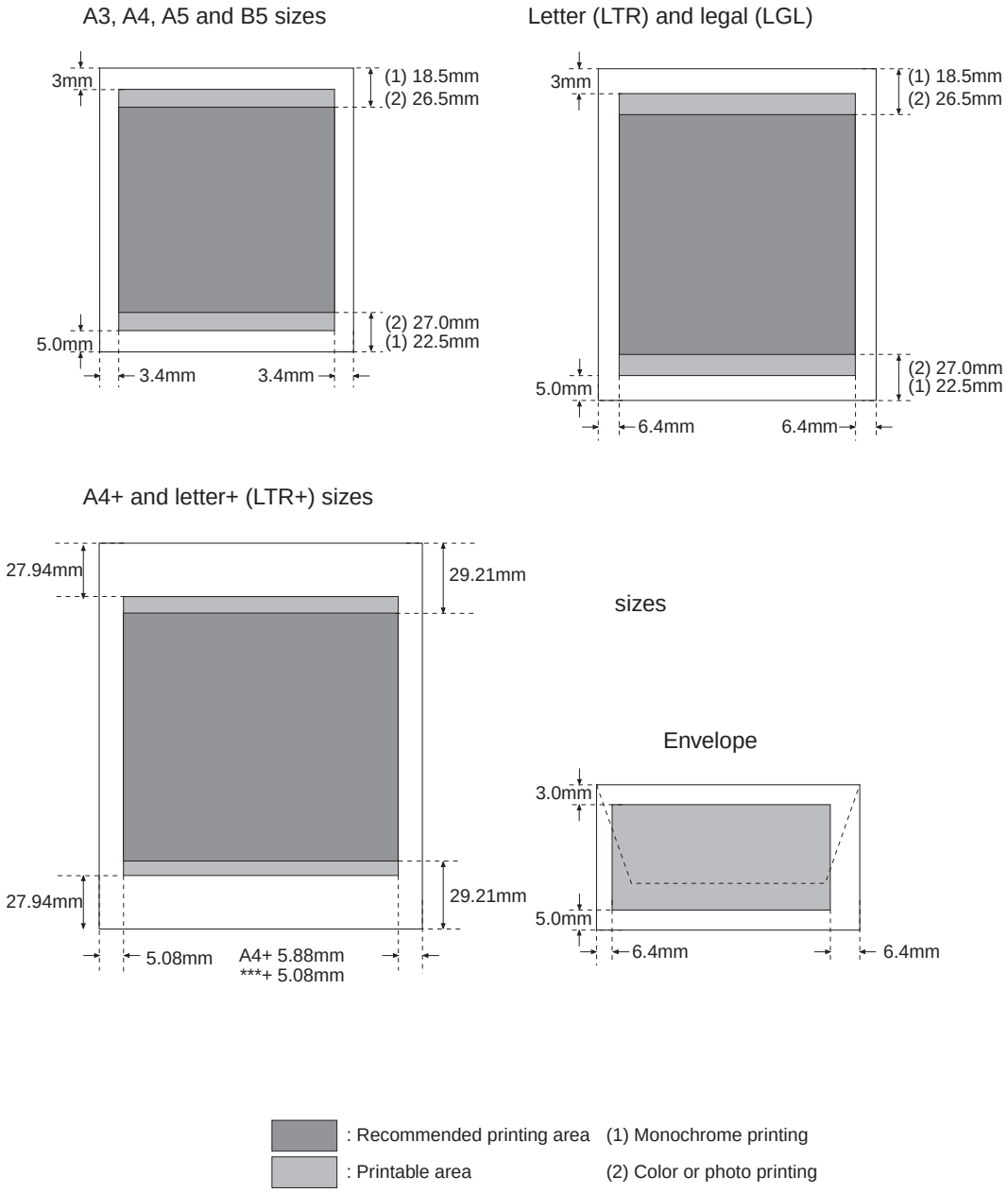

Figure 1-2 Printable Area

2.4 Scanner Cartridge Specifications

Name	IS-32
Type	Cartridge replacement type color scanner
Resolution (dpi)	90×90, 180×180, 300×360, 360×360, 720×720
Image sensor	Single-line, 256 pixel CCD
Light source	RGB (R; Red, G; Green, B; Blue)
Scanning method/direction	Sequential RGB light source switching method
Document feeding method	Place the document into the scanning holder and feed it through ASF
Gradation	10 bit input, 8 bit output
Input voltage	5/12 V
Power consumption	Approx 30 W (90 dpi, monochrome), SW (stand by)
Interface	ECP/Nibble
External dimensions	Approx. 41 mm W × 90 mm D × 77 mm H
Weight	Approx. 100 g
Others	Raise the paper selector lever on the printer upward when scanning
	Scannable paper thickness: 0.25 mm or less

2.4.1 Scannable area

Place the image to scan in the scanning holder with the upper left corner fitted to the placement point.

Holder Type	Paper	Size (width x height)	Scannable area (width x height)
SH-101 (220 x 327 mm)	A6	105 x 148 mm	98.2 x 138 mm
	A5	148 x 210 mm	141.2 x 200 mm
	A4	210 x 297 mm	203.2 x 287 mm
	B5	182 x 257 mm	175.2 x 247 mm
	Letter	8.5 x 11 inch	208.2 x 269.4 mm
SH-102 (300 x 458 mm)	A3	297 x 420 mm	289 x 410 mm
	Ledger	11 x 17 inch	272.6 x 421.8 mm
	Legal	8.5 x 14 inch	208.2 x 332.6 mm
	B4	257 x 364 mm	250.2 x 354 mm

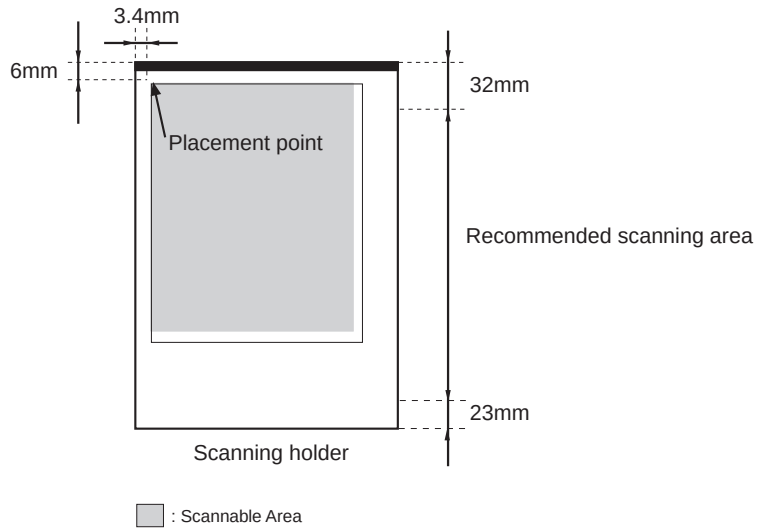

Figure 1-3 Scannable Area

2.5 Interface Specifications

2.5.1 Parallel interface

1) Interface type

IEEE 1284 compatible parallel interface

2) Data transfer

8-bit parallel interface (supports nibble/ECP modes)

3) Signal voltage levels

Input:

"Low" level: 0.0V to +0.8V

"High" level: +2.4V to +5.0V

Output:

"Low" level: 0.0V to +0.8V

"High" level: +2.4V to +5.25V

4) Input/output

Each signal pulled up with +5V

5) Interface cable

Twisted-pair double shielded cable, shorter than 2.0m

IEEE 1284 compatible required

Material: AWG No. 28 or higher (AWG: American Wire Gauge)

6) Interface connector

Printer-side Amphenol 57-40360 (or equivalent)

Cable-side Amphenol 57-30360 (or equivalent)

7) Input/output signal and pin arrangements

Refer to *Part 5: 2. CONNECTOR POSITIONS AND PIN ASSIGNMENT (Page 5-6)* for details.

2.5.2 Serial interface

1) Interface type

USB Interface (Universal Serial Bus; USB Specification Release Number 1.10)

2) Data transfer

Control transfer method

Bulk transfer method

3) Signal voltage level

Input:

Input difference sensitivity: +0.2V (Max)

Common-mode difference: +0.8V to +2.5V

Output:

Static output high: +2.8V to 3.6V

Static output low: less than +0.3V

4) Input/output

Each signal pulled up with 3.3V

5) Interface cable

Twisted-pair shielded cable

USB standard compatible required

Material AWG No.28, Data pair (AWG: American Wire Gauge)
AWG No.20 to No.28, Power distribution pair

6) Interface connector

Printer-side USB standard, Series B receptacle

Cable-side USB standard, Series B plug

7) Input/output signal and pin arrangements

Refer to *Part 5: 2. CONNECTOR POSITIONS AND PIN ASSIGNMENT (Page 5-6)* for details.

2.6 Printer Driver / Scanner Driver Types

For support of dual interfaces (USB and Centronics) and scanner, 6 drivers are prepared.

Windows: BJ Raster driver for Windows 95 / 98*1
BJ Raster driver for Windows NT 4.0*1
BJ Raster driver for Windows 2000*1
Scanner driver for Windows 95 /98 NT 4.0 (Windows 2000 not supported) *1

Macintosh: BJ printer driver for Macintosh
Scanner driver for Macintosh

Available combinations of interface and driver under each OS are given in the table below.

OS	For use of the printer (BJ Raster driver)		For use of the scanner (Scanner driver)	
	Parallel interface	USB interface	Parallel interface*3	USB interface
Windows 95 / 98	○	△ *2	○	△ *2
Windows NT 4.0	○	×	○	×
Windows 2000	○	×	×	×
Macintosh	×	○	×	○

○ : Usable.
△ : Usable on condition.
× : Not usable

*1: At installation of the driver, select either parallel or USB according to the cable connected.
*2: Correct operation is guaranteed only for Windows 98 pre-installed computers, though the USB interface may operate under Windows 95.
*3: The parallel interface operates in the nibble or ECP modes.

3. PRINTER PACKING

After opening the printer box, confirm that all items below are included.

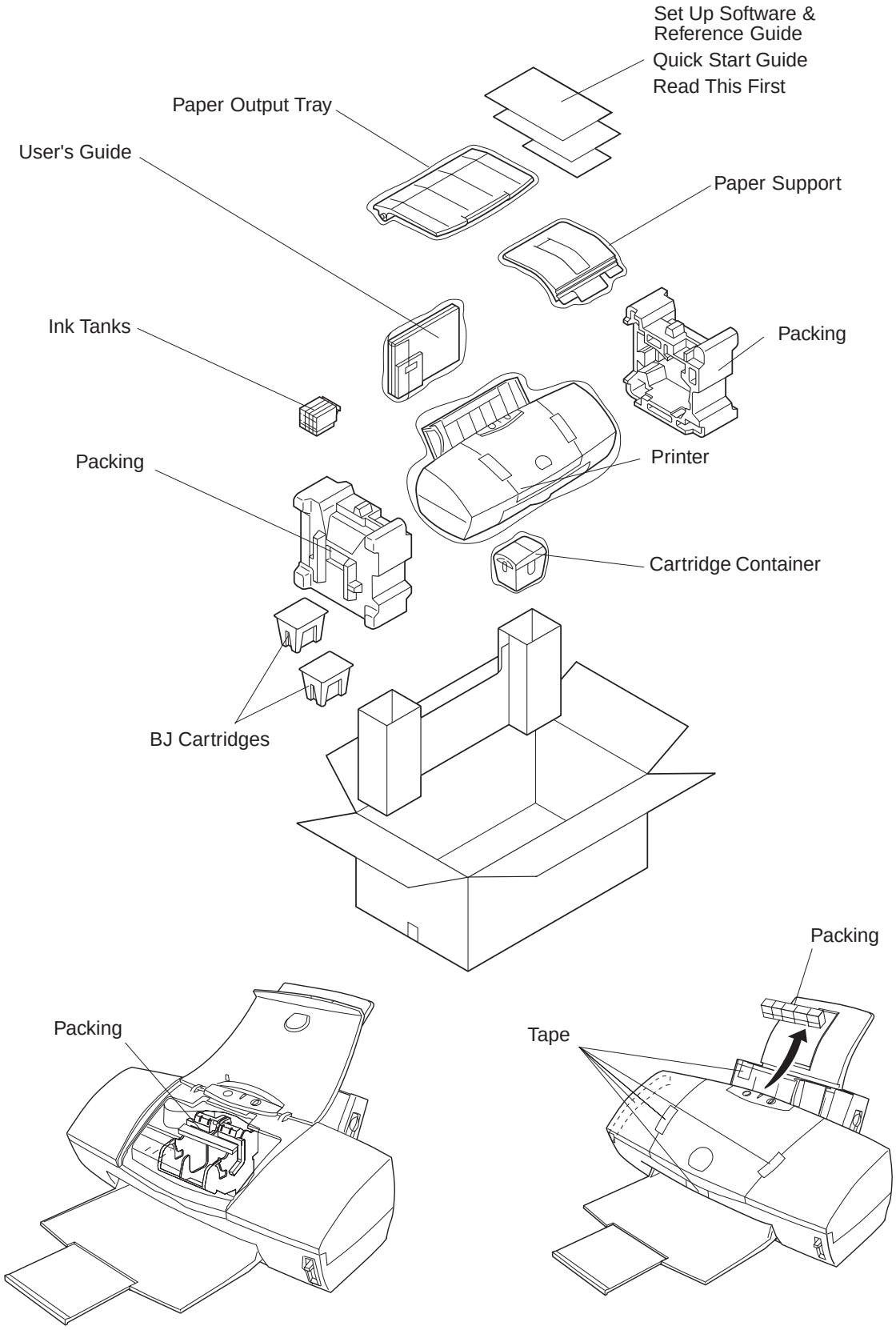

Figure 1-4 Packaging

4. NAMES OF PARTS AND THEIR FUNCTIONS

The names of the printer parts, and their functions are as shown below.

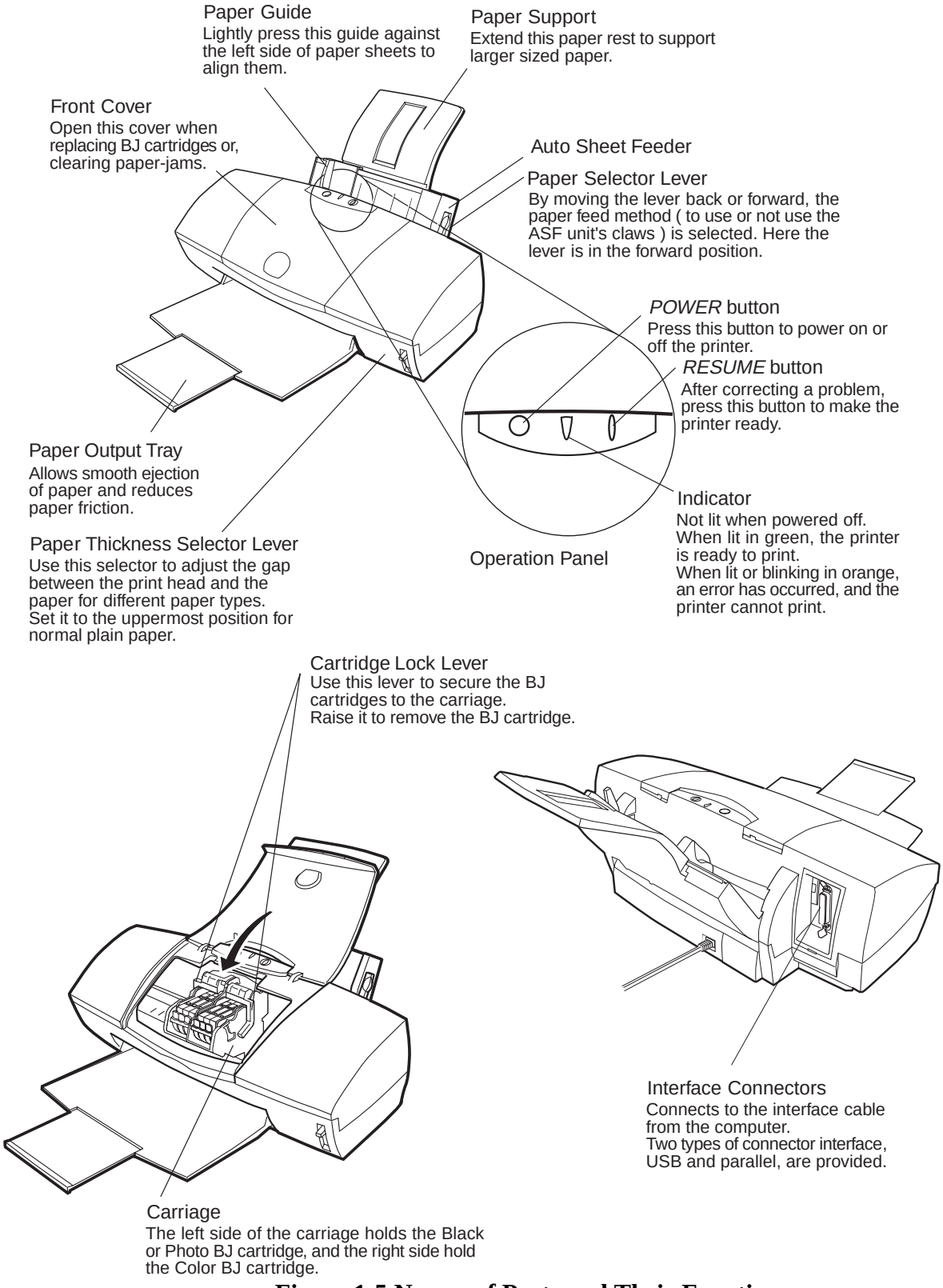

Figure 1-5 Names of Parts and Their Functions

5. PRODUCT CODE LIST

The product codes for the printer, consumables, and options are shown in *TABLE 1-1*.

Item		Name	Product code
Printer	-	BJC-6500	Q30-3300
			Q30-3182
BJ cartridge	Black	BC-30	F45-1471
	Color	BC-31	F45-1491
	Photo	BC-32 Photo	F45-1511
Ink tank	Black	BCI-3BK	F47-2171
	Cyan	BCI-3C	F47-2181
	Magenta	BCI-3M	F47-2191
	Yellow	BCI-3Y	F47-2201
	Photo Black	BCI-3PBK Photo	F47-2231
	Photo Cyan	BCI-3PC Photo	F47-2211
	Photo Magenta	BCI-3PM Photo	F47-2221
Cartridge container	-	SB-30	Q70-4040
Scanner cartridge	-	IS-32	Q70-4070
Scanning holder for A4, LTR	Scanning Holder	SH-101	Q70-3640
Scanning holder for A3, LDR	Scanning Holder	SH-102	Q70-4140

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Part 2

MAINTENANCE

Page

2 - 1 1. PERIODICAL REPLACEMENT/MAINTENANCE
2 - 1 1.1 Parts for Periodical Replacement
2 - 1 1.2 List of Periodical Maintenance
2 - 2 2. DISASSEMBLY AND REASSEMBLY
2 - 2 2.1 List of Tools
2 - 3 2.2 Precautions for Disassembly and Reassembly
2 - 6 2.3 Disassembling and Reassembling the Printer
2 -11 2.4 Adjustment/Setting Procedures
2 -18 3. CONFIRMATION OF OPERATION
2 -18 3.1 Confirmation Methods
2 -19 4. TRANSPORTING THE PRINTER
2 -19 4.1 Procedures for Packing the Printer for Transportation

1. PERIODICAL REPLACEMENT / MAINTENANCE

1.1 Parts for Periodical Replacement

Level	Parts for periodical replacement
User	None
Service personnel	None

Level	Consumable
User	Black BJ cartridge Color BJ cartridge Photo BJ cartridge Black ink tank for the Black BJ cartridge Cyan, magenta, and yellow ink tanks for the Color BJ cartridge Photo cyan, photo magenta, and photo black ink tanks for the Photo BJ cartridge Scanner cartridge (Optional)
Service personnel	None

1.2 List of Periodical Maintenance

Level	Location
User	None
Service personnel	None

Product: 1999 Canon BJC-6500 Printer Service Repair Workshop Manual
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2. DISASSEMBLY AND REASSEMBLY

2.1 List of Tools

Ordinary Tools	Note
Phillips screwdriver	For removing and replacing screws
Phillips screwdriver (about 38 mm long)	For removing and replacing screws for the control board
Blade screwdriver	For removing plastic parts
Long-nose pliers	For removing and replacing springs
Tweezers	For removing and installing flexible cables
Flat brush	For applying grease (one per grease type)
Oil applicator	For applying FLOIL 946P
Multimeter	For troubleshooting
Paperclip (diameter 1.27 mm)	Substitute for Lock Pin QY9-0053

Special Tools (part no.)	Note
1.9-mm gap gauge (QY9-0038-000)	One for head gap adjustment (see Page 2-17)
0.5-mm gap gauge (QY9-0001-000)	One for head gap adjustment (see Page 2-17)
Tension spring (QY9-0052-000)	For carriage belt tension adjustment (see Page 2-13)
Lock pin (QY9-0053-000)	For matching gear-phase of the ASF drive switching unit (see Page 2-15)
MOLYKOTE PG-641 grease (CK-0562-000)	For application to specified locations (see Page 2-10)
FLOIL 946P grease (QY9-0045-000)	For application to specified locations (see Page 2-10)

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