

PowerShot SD750/SD1000 DIGITAL ELPH DIGITAL IXUS 75/70

Digital Camera
English Edition



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GENERAL DESCRIPTION
OF PRODUCT

TECHNICAL
DESCRIPTION

DISASSEMBLY

ADJUSTMENT

DIAGRAMS

APPENDIX

READ ME

SAFETY PRECAUTIONS

The following precautions should be observed when servicing.

1. Since many parts in the unit have special safety-related characteristics, always use genuine CANON replacement parts. Especially critical parts in the power circuit block should not be replaced with other makes. Critical parts are marked with \triangle in the schematic diagrams.
2. When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
3. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
4. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

4-1 Leakage Current Cold Check

- 1) Unplug the AC cord and connect a jumper between the two prongs on the plug.
- 2) Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between $1M\Omega$ and $5.2M\Omega$. When the exposed metal does not have a return path to the chassis, the reading must be ∞ .

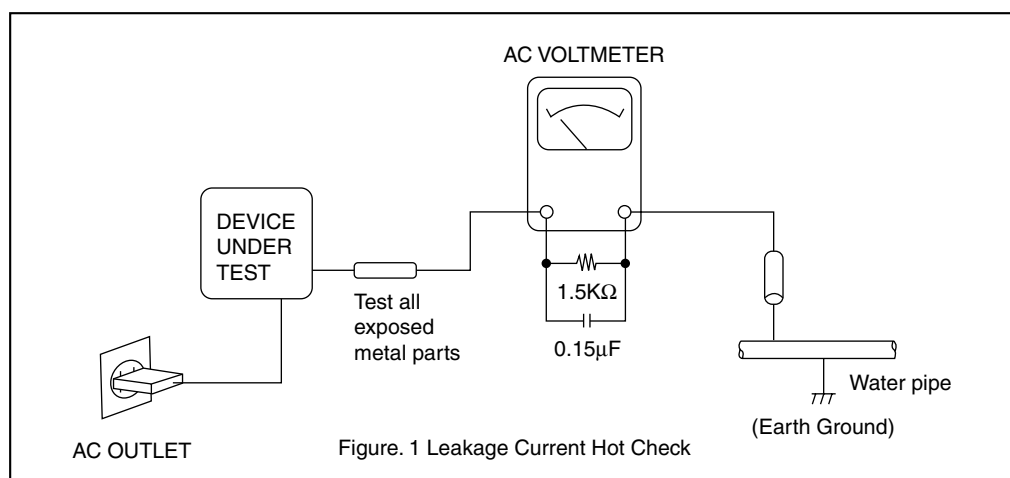
4-2 Leakage Current Hot Check

- 1) Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
- 2) Connect a $1.5K\Omega$ 10 watt resistor, paralleled by $0.15\mu F$ capacitor, between each exposed metallic parts on the unit and a good earth ground such as a water pipe, as shown in the figure below.
- 3) Use an AC voltmeter, with $1000\Omega/\text{volt}$ or more sensitivity, to measure the potential across the resistor.
- 4) Check all exposed metallic parts of the cover (Cable connection, Handle bracket, metallic cabinet. Screwheads, Metallic overlays, etc), and measure the voltage at each point.
- 5) Reverse the AC plug in the AC outlet and repeat each of the above measurements.
- 6) The potential at any point should not exceed 0.75V RMS.

A leakage current tester (FLUKE MODEL : 8000A equivalent) may be used to make the hot checks.

Leakage current must not exceed 0.5 milliamp.

In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and corrective action must be taken before returning the instrument to the customer.



GENERAL DESCRIPTION OF PRODUCT

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* The “IXY DIGITAL 90/10” product designation used in this document refers to the IXY DIGITAL 90/10, but marketing departments in other regions use DIGITAL IXUS 75/70 or PowerShot SD750/SD100 DIGITAL ELPH to refer to the same product.

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1 Overview

Highly anticipated successor models to IXY DIGITAL 80/70 offer even better image quality and performance thanks to DIGIC III, while featuring large LCD monitors and sophisticated slim design



(IXY DIGITAL 10: 2.5 inch type)



(IXY DIGITAL 90 only)



1-1 Summary of Main Features

Text highlighted in red: New features introduced with the IXY DIGITAL 90/10, Text highlighted in blue: Differences from the IXY DIGITAL 80/70

High Image Quality

- **DIGIC III** imaging processor provides improved image quality and functionality
- High-resolution **7.1-megapixel** CCD supports prints up to A3 size
- 3x optical zoom lens support a wide range of shooting scenes
 - 35 – 105 mm (35mm film equivalent), f/2.8 (W) / f/4.9 (T)
- High ISO Auto and **super high ISO-speed 1600** significantly reduce camera shake and subject blur
- iSAPS technology enables high-speed AF and high-definition AE/AWB

Full Featured and Easy Operation

Shooting Features

<Still Images>

- **Face detection function**
 - **Face Detect AF** focuses the faces in the screen
 - **Face Detect AE** incorporates face brightness
 - **Face Detect FE** controls the flash output for getting optimum face brightness during flash photography
- **Selected ISO speed is displayed on the LCD monitor**
 - **Effective speed is displayed when pressing the shutter button halfway while Auto or High ISO Auto is selected**
 - **The raised ISO speed in 1/3-stop increments is displayed when using the Auto ISO shift**
- **Auto ISO shift** increases ISO speed to shutter speed without camera shake with just one push
- Night Display automatically brightens images on the LCD monitor during sunset and evening shooting
- **Safety zoom** enables active use of digital zoom ranges where image quality is not reduced
- **Digital tele-converter** easily achieves a tele-converter function

- Image Inspection Tool checks image focus during rec. review (IXY DIGITAL 90/10)

<Movies>

- 6 movie modes, including Fast Frame Rate
- **Time Lapse movie** enables a movie recorded at intervals to be condensed into a short time at the normal frame rate (15 fps/sec) for viewing

<Still Images, Movies>

- **Aquarium** added to scene modes for a total of 17 shooting modes
- **Auto Category** sets categories based on shooting mode and the presence of a face on the screen
- My Colors enables customization of the color palette for the subject during shooting
- Quick-bright LCD maximizes brightness when the LCD monitor is hard to see, such as in bright sunlight or other strong light sources
- Intelligent Orientation Sensor automatically detects camera orientation (horizontal and vertical) during shooting

Playback Features

<Still Images>

- **Auto red-eye correction** uses the face detection function to automatically correct red-eye that occurred during flash photography
- **My Category** sorts images into categories based on shooting conditions
- **New Jump** function enables instant switching and playback of specific images based on keywords or categories
- **My Colors** enables customization of the color palette for the subject during playback
- Transition adds fade-in and fade-out effects when switching between playback images
- **Slide Show** enables playback of images grouped by folder, shooting date, and other conditions

<Still Images, Movies>

- **Resume Playback** starts playback from last viewed image (still image) or frame (movie)

Printing Features

- PictBridge for superior versatility and Canon Direct Print to maximize the functions of Canon printers

Operability

- **Playback button** switches between shooting mode and playback mode by one-push operation (IXY DIGITAL 90)
 - Playback button can be customized (slide show, sound recorder)**
 - **Transition to shooting mode by pressing the shutter button halfway**
- Omni selector enables selection of optimum ISO speed according to each scene
- Touch control dial for easy mode selection, value setting, and other operations (IXY DIGITAL 90)
 - **Enhanced operations**
- **Shortcuts** using the Print/Share button for improved ease of operation
- **Shutter speed and f/number are displayed on the LCD monitor** when pressing the shutter button halfway during shooting
- Print/Share button that lights up blue and allows easy printing with just one push

Others

- The LCD monitor with 3.0-inch size (IXY DIGITAL 90), 2.5-inch size (IXY DIGITAL 10), high resolution ([approx. 230,000 pixels](#)), and wide viewing angle
 - Protective window enhances sturdiness (IXY DIGITAL 90/10)
- [Sound recorder](#) capable of up to two hours of audio recording
- Low level format maximizes memory card performance
- [SDHC memory card](#) support for high-volume shooting (both still images and movies)
- UI display available in [25 languages](#)*

* Models for Japanese market available in [2 languages](#) ([Japanese and English](#))

Design

- Compact body with even lower profile
- New "Edge" design with distinct "Solid Form" and two color variations for circular section (modern black/futuristic silver) (IXY DIGITAL 90)
- Back to basics "[Box & Circle](#)" [design](#), and two [color variations](#) (Black/Silver) (IXY DIGITAL 10)

1-2 Comparison of Main Features

• IXY DIGITAL 90 and IXY DIGITAL 80

• Highlighted table items indicate changes from the IXY DIGITAL 80. Text in red shows changes. Conditions may apply depending on items (for details, see 3-1 Product Specifications).

			IXY DIGITAL 90	IXY DIGITAL 80
Image Sensor (CCD)		Camera Effective Pixels	Approx. 7.1 million pixels, 1/2.5-inch type	Approx. 6.0 million pixels, 1/2.5-inch type
		Color Filters	Primary color filters (Bayer type)	
Lens	Focal Length (35mm film equivalent)		3x Zoom: 35 (W) – 105 (T) mm	
	Focusing Range	Normal	30 cm (12 in.) – infinity	
		Macro	3 – 50 cm (W), 30 – 50 cm (T) (1.2 in. – 1.6 ft. (W), 12 in. – 1.6 ft. (T))	
		Digital Macro	3 – 10 cm (W) (1.2 in. – 3.9 in. (W))	
		Image Stabilizer (IS) System	–	
Imaging Processor			DIGIC III	DIGIC II
Viewfinder			–	
LCD Monitor	Type	3.0-inch type, color LCD with wide viewing angle (Effective pixels: Approx. 230,000 pixels)		3.0-inch type, color LCD with wide viewing angle (Effective pixels: Approx. 173,000 pixels)
	Features	Brightness adjustment (15 levels, Quick-bright LCD)		
Focus		AiAF (Face Detect ^{*1} /9-point) / AF (1-point ^{*2}) ^{*1} If no face is detected, 9 points are used. ^{*2} Fixed to center		AiAF (9-point) / AF (1-point*) * Fixed to center
Metering System		Evaluative ^{*1} , Center-weighted average, Spot ^{*2} ^{*1} Control to incorporate facial brightness in Face Detect AF. ^{*2} Fixed to center		Evaluative, Center-weighted average, Spot* * Fixed to center
Exposure Compensation			±2 stops in 1/3-stop increments	
ISO Speed			Auto, High ISO Auto, ISO 80/100/200/400/800/1600 (Standard Output Sensitivity, Recommended Exposure Index)	Auto, High ISO Auto, ISO 80/100/200/400/800 equivalent
White Balance			Auto, Day Light, Cloudy, Tungsten, Fluorescent, Fluorescent H, Custom	
Shutter	Type	Mechanical shutter and electronic shutter		
	Speeds	15 – 1/1500 sec.		
Aperture	Type	Circular type		
	f/number	f/2.8 (W), f/4.9 (T)		
Flash	Modes	Auto, on, off		Auto, auto with red-eye reduction, flash on with red-eye reduction, on, off, slow synchro
	Range	Normal: 50 cm – 3.5 m (W), 50 cm – 2.0 m (T) (1.6 – 11 ft. (W), 1.6 – 6.6 ft. (T)) Macro: 30 – 50 cm (W/T) (12 in. – 1.6 ft. (W/T)) (ISO speed: Auto)		
	Main Features	Face Detect FE, FE lock		FE lock
Shooting Specifications	Shooting Modes		Auto, Camera M (Manual), Digital Macro, Color Accent, Color Swap, Stitch Assist, Special Scene*, Movie * Portrait, Night Snapshot, Kids & Pets, Indoor, Foliage, Snow, Beach, Fireworks, Aquarium , Underwater	Auto, Camera M (Manual), Digital Macro, Portrait, Night Snapshot, Scene*, Stitch Assist, Movie * Kids & Pets, Indoor, Foliage, Snow, Beach, Fireworks, Underwater, Color Accent, Color Swap
	Digital Zoom		Still images/Movies: Approx. 4.0x (up to approx. 12x in combination with the optical zoom) Safety Zoom	Still images/Movies: Approx. 4.0x (up to approx. 12x in combination with the optical zoom)
	My Colors		My Colors Off, Vivid, Neutral, Sepia, Black & White, Positive Film, Lighter Skin Tone, Darker Skin Tone, Vivid Blue, Vivid Green, Vivid Red, Custom	
	Continuous Shooting		Approx. 1.7 shots/sec. (Large and Fine)	Approx. 2.1 shots/sec. (Large and Fine)
	Number of Images Shot (CIPA)		Approx. 210 images	Approx. 160 images
Recording Specifications	Recording Media		SD memory card, SDHC memory card , MultiMediaCard	SD memory card, MultiMediaCard
	File Format		Design rule for camera file system, DPOF (Version 1.1) compliant	
	Data Type	Still Images	Exif 2.2 (JPEG)	
		Movies	AVI (Image data: Motion JPEG, Audio data: WAVE (Monaural))	
		Audio	Sound memos, sound recorder : WAVE (Monaural)	Sound memos: WAVE (Monaural)
	Number of Recording Pixels	Still Images	Large: 3072 x 2304, Medium 1: 2592 x 1944, Medium 2: 2048 x 1536, Medium 3: 1600 x 1200, Small: 640 x 480, Postcard date imprint: 1600 x 1200, Widescreen: 3072 x 1728	
		Movies	Standard, Color Accent, Color Swap: 640 x 480 (30/15 fps) / 320 x 240 (30/15 fps), Fast Frame Rate: 320 x 240 (60 fps), Compact: 160 x 120 (15 fps), Time Lapse: 640 x 480 (0.5/1 fps*) * Plays back at 15 fps.	
Others		Sound recorder		
Playback Specifications	Main Features	Still Images	Index, My Colors, My Category , New Jump , magnified, advancing and reversing through magnified images, auto rotate, rotate, histogram, sound memos, sound recorder, slide show (with effects), resume	
		Movies	Special playback, editing, auto rotate , resume	
Direct Print			PictBridge, Canon Direct Print, Bubble Jet Direct	
Display Languages			25 languages (Models for Japanese market available in 2 languages)	23 languages
Interface			USB 2.0 Hi-Speed (mini-B)*, Audio/Video output * MTP, PTP supported	USB 2.0 Hi-Speed (mini-B)*, Audio/Video output * PTP supported
Power Source			Battery Pack NB-4L AC Adapter Kit ACK-DC10	
Dimensions (excluding protrusions)			91.6 x 56.8 x 19.6 mm (3.61 x 2.24 x 0.77 in.)	90.3 x 56.8 x 20.2 mm (3.56 x 2.24 x 0.80 in.)
Weight (camera body only)			Approx. 130 g (4.59 oz.)	Approx. 145 g (5.11 oz.)

• IXY DIGITAL 10 and IXY DIGITAL 70

• Highlighted table items indicate changes from the IXY DIGITAL 70. Text in red shows changes. Conditions may apply depending on items (for details, see 3-1 Product Specifications).

		IXY DIGITAL 10	IXY DIGITAL 70
Image Sensor (CCD)	Camera Effective Pixels	Approx. 7.1 million pixels, 1/2.5-inch type	Approx. 6.0 million pixels, 1/2.5-inch type
	Color Filters	Primary color filters (Bayer type)	
Lens	Focal Length (35mm film equivalent)	3x Zoom: 35 (W) – 105 (T) mm	
	Focusing Range	Normal	30 cm (12 in.) – infinity
		Macro	3 – 50 cm (W), 30 – 50 cm (T) (1.2 in. – 1.6 ft. (W), 12 in. – 1.6 ft. (T))
		Digital Macro	3 – 10 cm (W) (1.2 – 3.9 in. (W))
Image Stabilizer (IS) System		–	
Imaging Processor		DIGIC III	DIGIC II
Viewfinder		Real-image optical zoom viewfinder	
LCD Monitor	Type	2.5-inch type, color LCD with wide viewing angle (Effective pixels: Approx. 230,000 pixels)	2.5-inch type, color LCD with wide viewing angle (Effective pixels: Approx. 173,000 pixels)
	Features	Brightness adjustment (15 levels, Quick-bright LCD)	
Focus		AiAF (Face Detect ^{*1} /9-point) / AF (1-point ^{*2}) ^{*1} If no face is detected, 9 points are used. ^{*2} Fixed to center	AiAF (9-point) / AF (1-point*) * Fixed to center
Metering System		Evaluative ^{*1} , Center-weighted average, Spot ^{*2} ^{*1} Control to incorporate facial brightness in Face Detect AF. ^{*2} Fixed to center	Evaluative, Center-weighted average, Spot* * Fixed to center
Exposure Compensation		±2 stops in 1/3-stop increments	
ISO Speed		Auto, High ISO Auto, ISO 80/100/200/400/800/1600 (Standard Output Sensitivity, Recommended Exposure Index)	Auto, High ISO Auto, ISO 80/100/200/400/800 equivalent
White Balance		Auto, Day Light, Cloudy, Tungsten, Fluorescent, Fluorescent H, Custom	
Shutter	Type	Mechanical shutter and electronic shutter	
	Speeds	15 – 1/1500 sec.	
Aperture	Type	Circular type	
	f/number	f/2.8 (W), f/4.9 (T)	
Flash	Modes	Auto, on, off	Auto, auto with red-eye reduction, flash on with red-eye reduction, on, off, slow synchro
	Range	Normal: 50 cm – 3.5 m (W), 50 cm – 2.0 m (T) (1.6 – 11 ft. (W), 1.6 – 6.6 ft. (T)) Macro: 30 – 50 cm (W/T) (12 in. – 1.6 ft. (W/T)) (ISO speed: Auto)	
	Main Features	Face Detect FE, FE lock	FE lock
Shooting Specifications	Shooting Modes		Auto, Camera M (Manual), Digital Macro, Portrait, Night Snapshot, Color Accent, Color Swap, Scene*, Stitch Assist, Movie * Kids & Pets, Indoor, Foliage, Snow, Beach, Fireworks, Aquarium, Underwater
	Digital Zoom		Still images/Movies: Approx. 4.0x (up to approx. 12x in combination with the optical zoom) Safety Zoom
	My Colors		My Colors Off, Vivid, Neutral, Sepia, Black & White, Positive Film, Lighter Skin Tone, Darker Skin Tone, Vivid Blue, Vivid Green, Vivid Red, Custom
	Continuous Shooting		Approx. 1.7 shots/sec. (Large and Fine)
	Number of Images Shot (CIPA)		Approx. 210 images
Recording Specifications	Recording Media		SD memory card, SDHC memory card, MultiMediaCard
	File Format		Design rule for camera file system, DPOF (Version 1.1) compliant
	Data Type	Still Images	Exif 2.2 (JPEG)
		Movies	AVI (Image data: Motion JPEG, Audio data: WAVE (Monaural))
		Audio	Sound memos, sound recorder: WAVE (Monaural)
	Number of Recording Pixels	Still Images	Large: 3072 x 2304, Medium 1: 2592 x 1944, Medium 2: 2048 x 1536, Medium 3: 1600 x 1200, Small: 640 x 480, Postcard date imprint: 1600 x 1200, Widescreen: 3072 x 1728
		Movies	Standard, Color Accent, Color Swap: 640 x 480 (30/15 fps) / 320 x 240 (30/15 fps), Fast Frame Rate: 320 x 240 (60 fps), Compact: 160 x 120 (15 fps), Time Lapse: 640 x 480 (0.5/1 fps*) * Plays back at 15 fps.
		Others	Sound recorder
Playback Specifications	Main Features	Still Images	Index, My Colors, My Category, New Jump, magnified, advancing and reversing through magnified images, auto rotate, rotate, histogram, sound memos, sound recorder, slide show (with effects), resume
		Movies	Special playback, editing, auto rotate, resume
Direct Print		PictBridge, Canon Direct Print, Bubble Jet Direct	
Display Languages		25 languages (Models for Japanese market available in 2 languages)	23 languages
Interface		USB 2.0 Hi-Speed (mini-B)*, Audio/Video output * MTP, PTP supported	USB 2.0 Hi-Speed (mini-B)*, Audio/Video output * PTP supported
Power Source		Battery Pack NB-4L AC Adapter Kit ACK-DC10	
Dimensions (excluding protrusions)		85.9 x 53.5 x 19.4 mm (3.38 x 2.11 x 0.76 in.)	86.0 x 53.5 x 21.7 mm (3.39 x 2.11 x 0.85 in.)
Weight (camera body only)		Approx. 125 g (4.41 oz.)	Approx. 140 g (4.94 oz.)

2 Exterior

2-1 Exterior Photos

IXY DIGITAL 90

Black model



Silver model



IXY DIGITAL 10

Black model



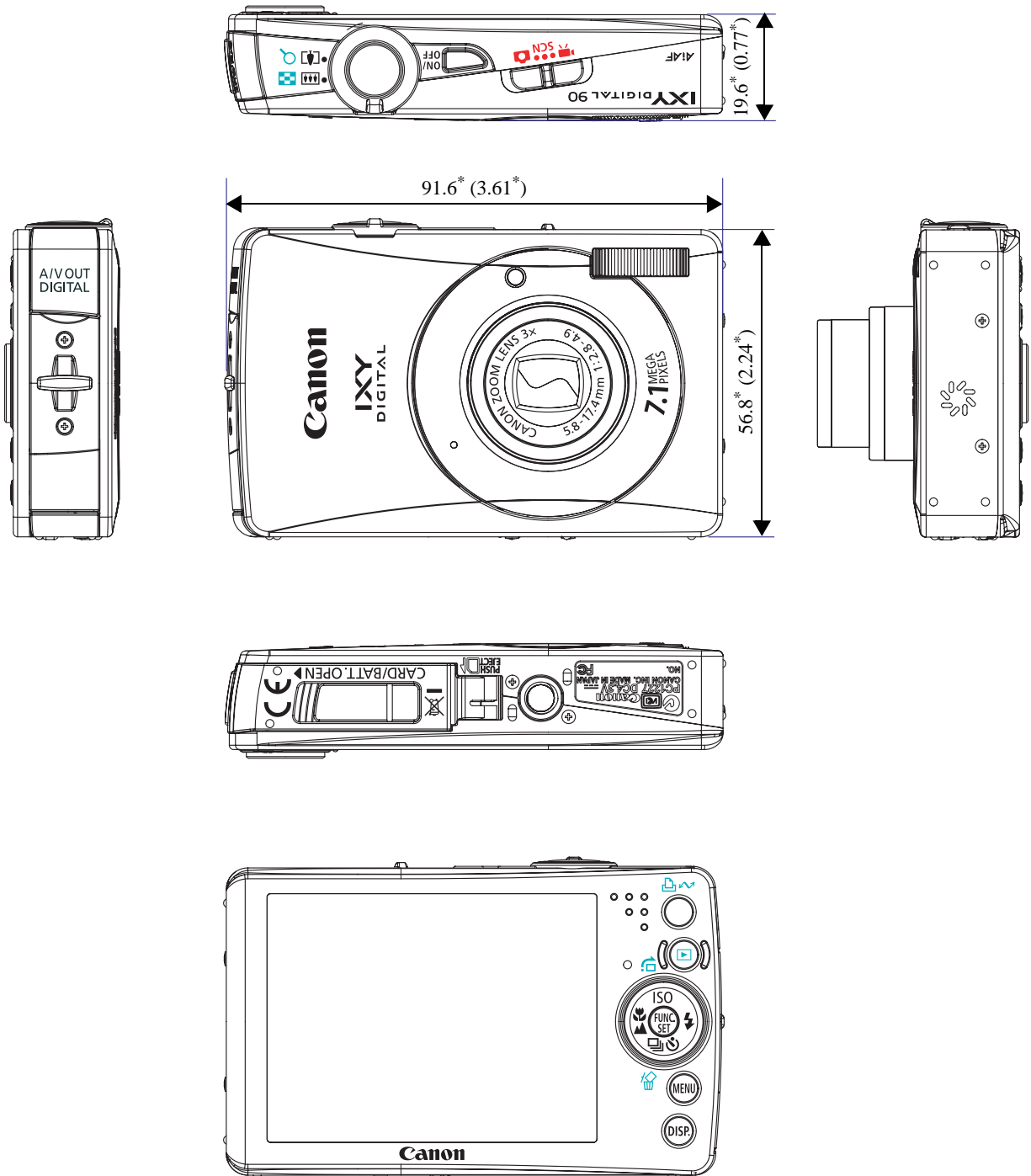
Silver model



2-2 6-view Diagram

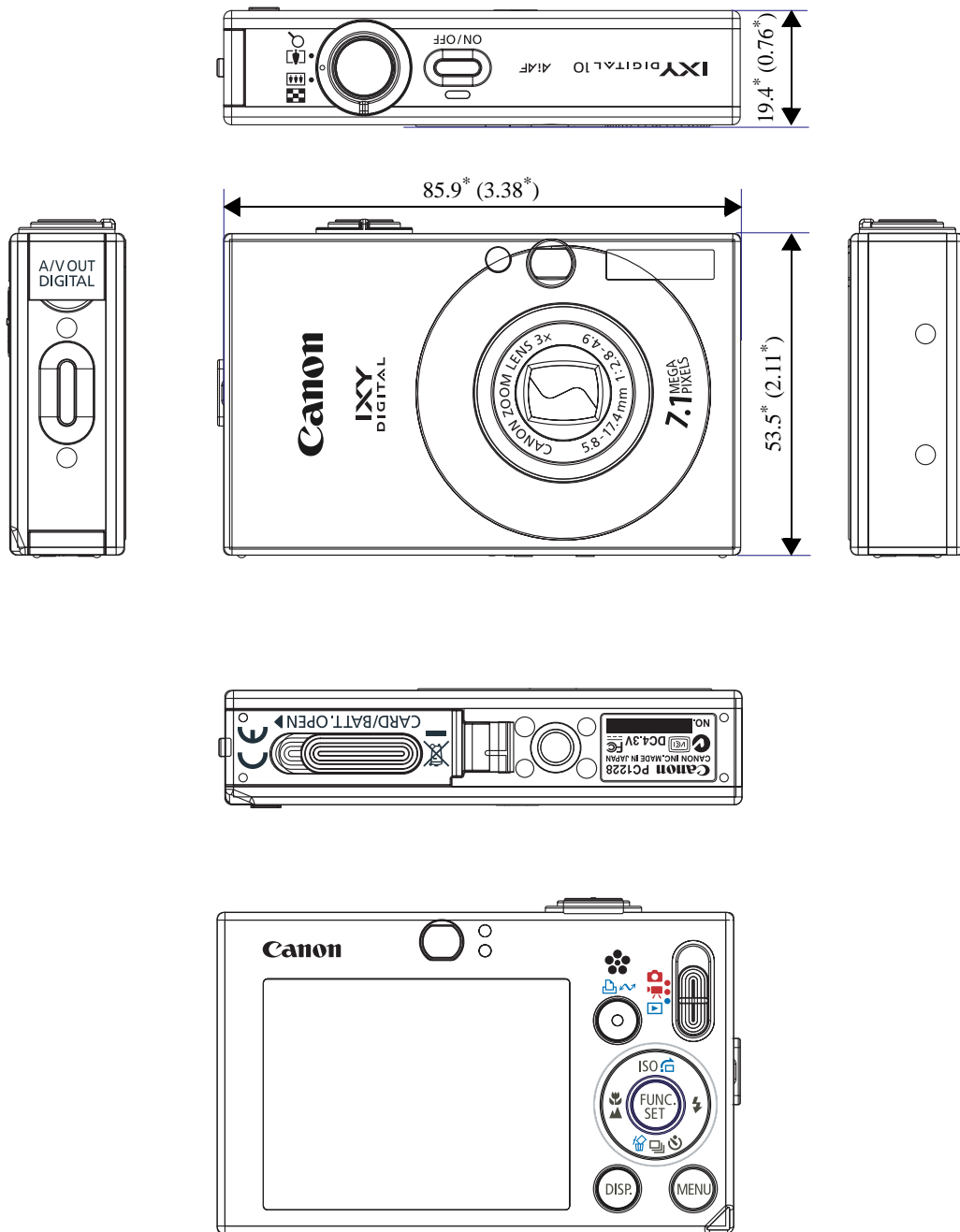
IXY DIGITAL 90

Unit : mm (inch)
* Nominal Dimensions



IXY DIGITAL 10

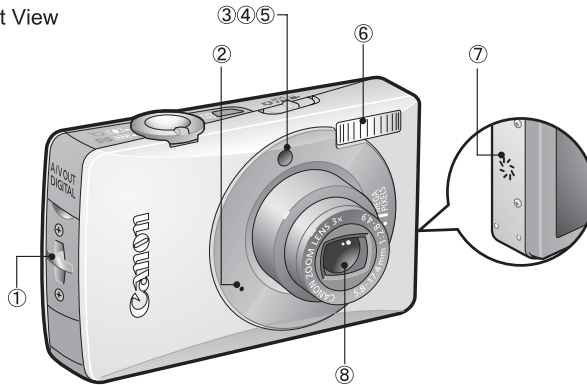
Unit : mm (inch)
* Nominal Dimensions



2-3 Nomenclature

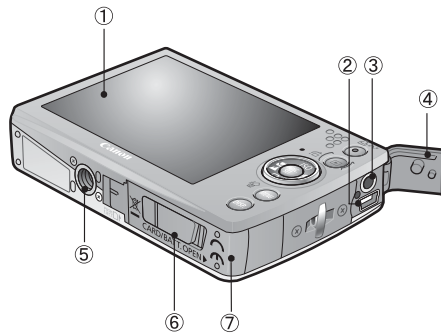
IXY DIGITAL 90

Front View



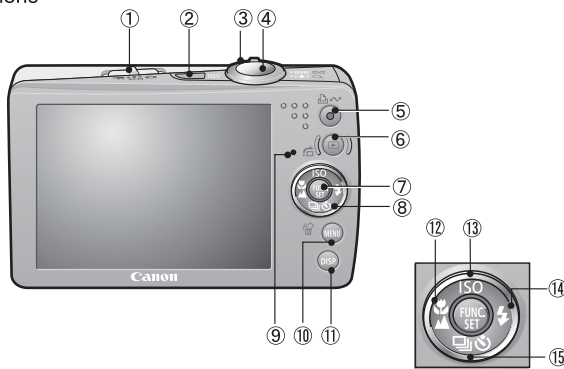
- ① Wrist Strap Mount
- ② Microphone
- ③ AF-assist Beam
- ④ Red-Eye Reduction Lamp
- ⑤ Self-Timer Lamp
- ⑥ Flash
- ⑦ Speaker
- ⑧ Lens

Back View



- ① LCD Monitor
- ② DIGITAL Terminal
- ③ A/V OUT (Audio/Video output) Terminal
- ④ Terminal Cover
- ⑤ Tripod Socket
- ⑥ DC Coupler Terminal Cover
- ⑦ Memory Card Slot/Battery Cover

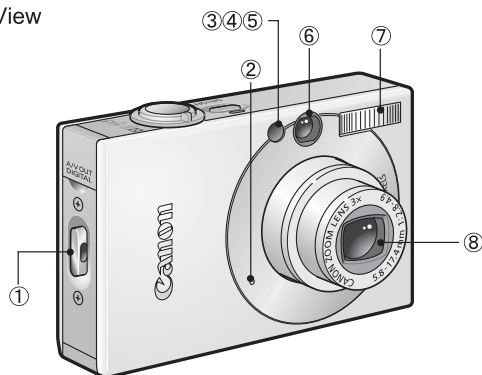
Operations



- ① Mode Switch
- ② Power Button
- ③ Zoom Lever
 - Shooting: (Wide Angle)/ (Telephoto)
 - Playback: (Index)/Q (Magnify)
- ④ Shutter Button
- ⑤ (Print/Share) Button
- ⑥ (Playback) Button
- ⑦ FUNC./SET (Function/Set) Button
- ⑧ Touch Control Dial
- ⑨ Indicators
- ⑩ MENU Button
- ⑪ DISP. (Display) Button
- ⑫ (Macro)/ (Infinity)/ (Flash) Button
- ⑬ ISO (ISO Speed)/ (Jump)/ (Flash) Button
- ⑭ (Flash)/ (Flash) Button
- ⑮ (Single Image Erase)/ (Continuous)/ (Self-timer)/ (Flash) Button

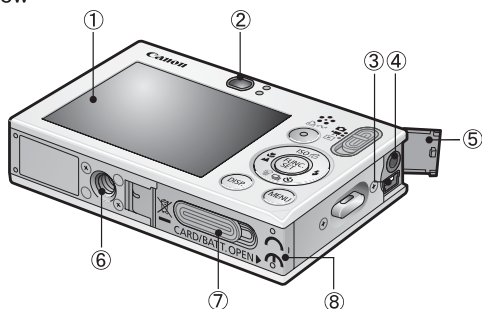
IXY DIGITAL 10

Front View



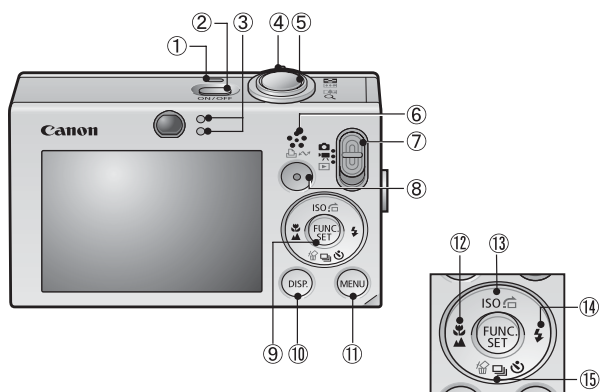
- ① Wrist Strap Mount
- ② Microphone
- ③ AF-assist Beam
- ④ Red-Eye Reduction Lamp
- ⑤ Self-Timer Lamp
- ⑥ Viewfinder Window
- ⑦ Flash
- ⑧ Lens

Back View



- ① LCD Monitor
- ② Viewfinder
- ③ DIGITAL Terminal
- ④ A/V OUT (Audio/Video output) Terminal
- ⑤ Terminal Cover
- ⑥ Tripod Socket
- ⑦ DC Coupler Terminal Cover
- ⑧ Memory Card Slot/Battery Cover

Operations



- ① Power Lamp
- ② Power Button
- ③ Indicators
- ④ Zoom Lever
 - Shooting: (Wide Angle)/ (Telephoto)
 - Playback: (Index)/ (Magnify)
- ⑤ Shutter Button
- ⑥ Speaker
- ⑦ Mode Switch
- ⑧ (Print/Share) Button
- ⑨ FUNC./SET (Function/Set) Button
- ⑩ DISP. (Display) Button
- ⑪ MENU Button
- ⑫ (Macro)/ (Infinity)/ (AF-ON) Button
- ⑬ ISO (ISO Speed)/ (Jump)/ (AF-ON) Button
- ⑭ (Flash)/ (AF-ON) Button
- ⑮ (Single Image Erase)/ (Continuous)/ (Self-timer)/ (AF-ON) Button

3 Specifications

3-1 Product Specifications

Note: Measured data is based on Canon's standard testing conditions unless otherwise stated.

Imaging Processor DIGIC III

Image Sensor (CCD)

Camera Effective Pixels Approx. 7.1 million pixels
 Total Pixels Approx. 7.4 million pixels
 Transfer Method Interline
 Image Size 1/2.5-inch type
 Aspect Ratio 4:3
 Filter Type Primary color filters (Bayer type)

Lens

Focal Length 5.8 (W) – 17.4 (T) mm (35mm film equivalent: 35 (W) – 105 (T) mm)
 f/number (widest aperture) f/2.8 (W) – f/4.9 (T)
 Lens Construction 6 elements in 5 groups (including 2 UA lenses)
 Zoom Magnification 3x
 Image Stabilizer System Not available

Focusing Range and Image Area (Image magnification ratios are 35mm film equivalent)

Shooting Mode		Max. Wide Angle		Max. Telephoto	
		Focusing Range	Image Area at the Minimum Focusing Distance [Image Magnification]	Focusing Range	Image Area at the Minimum Focusing Distance [Image Magnification]
Auto, Camera M (Manual), Portrait, Night Snapshot, Color Accent, Color Swap, (Special) Scene ^{*1} , Movie	Normal	30 cm (12 in.) – infinity	–	30 cm (12 in.) – infinity	–
	Macro	3 – 50 cm (1.2 in. – 1.6 ft.)	37 x 27 mm (1.5 x 1.1 in.) [0.98x]	30 – 50 cm (12 in. – 1.6 ft.)	108 x 81 mm (4.3 x 3.2 in.) [0.32x]
	Infinity ^{*2}	3 m (9.8 ft.) – infinity	–	3 m (9.8 ft.) – infinity	–
Digital Macro		3 – 10 cm (1.2 – 3.9 in.)	9 x 7 mm (0.35 x 0.28 in.) [3.8x]	–	–
Fireworks		Not disclosed	–	Not disclosed	–
Kids & Pets		1 m (3.3 ft.) – infinity	–	1 m (3.3 ft.) – infinity	–

^{*1} IXY DIGITAL 10: Scene. Excluding Fireworks and Kids & Pets.

^{*2} Can not be selected in auto.

Optical Viewfinder (IXY DIGITAL 10 only)

Type Real-image zoom viewfinder
 Picture Coverage Not disclosed
 Eyepoint 16 mm (0.63 in.)
 Dioptic Adjustment Not available

Electronic Viewfinder Not available

LCD Monitor

Type	Low-temperature polycrystalline silicon TFT color
Effective Pixels	Approx. 230,000 pixels
Display Size	IXY DIGITAL 90: 75.0 mm diagonal (3.0-inch type), with wide viewing angle IXY DIGITAL 10: 63.3 mm diagonal (2.5-inch type), with wide viewing angle
Picture Coverage	100%
Brightness Adjustment	15 levels
Quick-bright LCD	Available
Variangle	Not available

Focus Control

AF System	TTL autofocus
AF Mode	Single
Manual Focus	Not available
AF Frame	AiAF (Face Detect ^{*1} /9-point) / AF (1-point ^{*2}) ^{*1} If no face is detected, 9 points are used. ^{*2} Fixed to center
AF Lock	Available <ul style="list-style-type: none">• Shooting standby only in movie mode.
AF-assist Beam	Available

Exposure Control

Metering System	Evaluative ^{*1} , Center-weighted average, Spot ^{*2} ^{*1} Control to incorporate facial brightness in Face Detect AF. ^{*2} Fixed to center
Manual Exposure	Not available
AE Lock	Available <ul style="list-style-type: none">• Shooting standby only in movie mode.
Exposure Compensation (Still images)	±2 stops in 1/3-stop increments
Exposure Shift (Movies)	±2 stops in 1/3-stop increments <ul style="list-style-type: none">• Shooting standby only.
Program Shift	Not available
Safety Shift	Not available
ISO Speed (Standard Output Sensitivity, Recommended Exposure Index)	Auto ^{*1} , High ISO Auto ^{*2} , ISO 80/100/200/400/800/1600 ^{*1} Camera automatically sets the optimal speed according to subject brightness. ^{*2} Camera automatically sets the optimal speed according to subject brightness. However, the ISO speed is set relatively higher than Auto (maximum ISO speed is ISO 800.)
Auto ISO Shift	Available
ND Filter (built-in) Insertion	Not available

White Balance

Modes	Auto, Day Light, Cloudy, Tungsten, Fluorescent, Fluorescent H, Custom
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Shutter, Aperture

Shutter Type	Mechanical shutter and electronic shutter
Aperture Type	Circular type
Shutter Speeds	15 – 1/1500 sec. <ul style="list-style-type: none">• Shutter speeds vary depending on the shooting modes.• The following shutter speeds are available in Long Shutter mode: 15, 13, 10, 8, 6, 5, 4, 3.2, 2.5, 2, 1.6, 1.3, 1 (Unit: sec.)
f/number	Widest aperture: f/2.8 (W), f/4.9 (T) Smallest aperture: f/8.0 (W), f/14 (T)

Flash

<Built-in>

Flash Modes	Auto, on, off
Flash Range	Normal: 50 cm – 3.5 m (W), 50 cm – 2.0 m (T) (1.6 – 11 ft. (W), 1.6 – 6.6 ft. (T)) (ISO speed: Auto) Macro: 30 – 50 cm (12 in. – 1.6 ft.) (W/T) (ISO speed: Auto)
Flash Synchro Shutter Speeds	1/500 sec. (Fastest synchronized shutter speed)
Recycling Time (Full Flash)	10 sec. or less (battery voltage: 3.7 V)
Flash Output Compensation	Not available
Manual Flash Output Setting	Not available
FE Lock	Available
Red-eye Reduction	Available
Slow Synchro	Available
Second-curtain Synchro	Not available
Safety FE	Not available

<External> Not available

<Auxiliary>

Recommended Flash	High-Power Flash HF-DC1
Mounting Method	Mount to the supplied bracket using tripod socket
Trigger System	Detects the flash light from the camera's built-in flash

Shooting Specifications

<Still images, Movies>

Shooting Modes	IXY DIGITAL 90: Auto, Camera M (Manual), Digital Macro, Color Accent, Color Swap, Stitch assist, Special Scene*, Movie * Portrait, Night Snapshot, Kids & Pets, Indoor, Foliage, Snow, Beach, Fireworks, Aquarium, Underwater IXY DIGITAL 10: Auto, Camera M (Manual)* ¹ , Digital Macro, Portrait, Night Snapshot, Color Accent, Color Swap, Scene* ² , Movie ¹ Stitch assist ² Kids & Pets, Indoor, Foliage, Snow, Beach, Fireworks, Aquarium, Underwater
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Long Shutter Mode	Available																										
Digital Zoom	Available																										
Zoom Magnification	Approx. 4.0x, up to approx. 12x in combination with the optical zoom <ul style="list-style-type: none">In movie mode, digital zoom is only available for the mode set to Standard, and the optical zoom can be used in shooting standby.																										
Focal Length (Optical x Digital)	35 (W) – 420 (T) mm (35mm film equivalent)																										
Zoom Position (Optical x Digital)	3.6x, 4.5x, 5.8x, 7.2x, 9.0x, 12x <ul style="list-style-type: none">Standard only in movie mode.																										
Safety Zoom (Stop position: Optical x Digital)	<table border="1"><tr><td>Large</td><td>Medium 1</td><td>Medium 2</td><td>Medium 3</td><td>Small</td></tr><tr><td>3.0x</td><td>3.6x</td><td>4.5x</td><td>5.8x</td><td>12x</td></tr></table> <ul style="list-style-type: none">Maximum magnification without loss of image quality at the each recording pixel.	Large	Medium 1	Medium 2	Medium 3	Small	3.0x	3.6x	4.5x	5.8x	12x																
Large	Medium 1	Medium 2	Medium 3	Small																							
3.0x	3.6x	4.5x	5.8x	12x																							
Digital Tele-converter	Approx. 1.5x, approx. 1.9x <table border="1"><tr><td>Magnification</td><td>Focal length (35mm film equivalent)</td></tr><tr><td>1.5x</td><td>52.5 (W) – 157.5 (T) mm</td></tr><tr><td>1.9x</td><td>66.5 (W) – 199.5 (T) mm</td></tr></table>	Magnification	Focal length (35mm film equivalent)	1.5x	52.5 (W) – 157.5 (T) mm	1.9x	66.5 (W) – 199.5 (T) mm																				
Magnification	Focal length (35mm film equivalent)																										
1.5x	52.5 (W) – 157.5 (T) mm																										
1.9x	66.5 (W) – 199.5 (T) mm																										
My Colors	My Colors Off, Vivid, Neutral, Sepia, Black & White, Positive Film, Lighter Skin Tone, Darker Skin Tone, Vivid Blue, Vivid Green, Vivid Red, Custom Color* <ul style="list-style-type: none">* Adjustment of contrast, sharpness, saturation, red, green, blue and skin tone are available.Saving original image is not available.																										
Auto Category	People, Scenery, Events <table border="1"><tr><td>Category Set</td><td>Shooting Modes</td></tr><tr><td>People</td><td>Portrait, Night Snapshot, Kids & Pets</td></tr><tr><td>Scenery</td><td>Foliage</td></tr><tr><td>Events</td><td>Indoor, Snow, Beach, Fireworks, Aquarium, Underwater</td></tr></table> <ul style="list-style-type: none">When a face or faces have been detected by Face Detect AF, People is always selected regardless of the shooting mode.	Category Set	Shooting Modes	People	Portrait, Night Snapshot, Kids & Pets	Scenery	Foliage	Events	Indoor, Snow, Beach, Fireworks, Aquarium, Underwater																		
Category Set	Shooting Modes																										
People	Portrait, Night Snapshot, Kids & Pets																										
Scenery	Foliage																										
Events	Indoor, Snow, Beach, Fireworks, Aquarium, Underwater																										
Image Stabilizer	Not available																										
Camera Start-up Time, Release Time Lag	IXY DIGITAL 90 <table border="1"><tr><td>Mode</td><td>LCD Monitor</td><td>Camera Start-up Time*</td><td>Release Time Lag</td></tr><tr><td>Shooting</td><td>On</td><td>Approx. 1.0 sec.</td><td>0.1 sec. or less</td></tr><tr><td>Playback</td><td>On</td><td>Approx. 1.3 sec.</td><td>–</td></tr></table> IXY DIGITAL 10 <table border="1"><tr><td>Mode</td><td>LCD Monitor</td><td>Camera Start-up Time*</td><td>Release Time Lag</td></tr><tr><td rowspan="2">Shooting</td><td>On</td><td>Approx. 1.0 sec.</td><td rowspan="2">0.1 sec. or less</td></tr><tr><td>Off</td><td>Approx. 0.8 sec.</td></tr><tr><td>Playback</td><td>On</td><td>Approx. 1.3 sec.</td><td>–</td></tr></table> <p>*When the flash is off.</p>	Mode	LCD Monitor	Camera Start-up Time*	Release Time Lag	Shooting	On	Approx. 1.0 sec.	0.1 sec. or less	Playback	On	Approx. 1.3 sec.	–	Mode	LCD Monitor	Camera Start-up Time*	Release Time Lag	Shooting	On	Approx. 1.0 sec.	0.1 sec. or less	Off	Approx. 0.8 sec.	Playback	On	Approx. 1.3 sec.	–
Mode	LCD Monitor	Camera Start-up Time*	Release Time Lag																								
Shooting	On	Approx. 1.0 sec.	0.1 sec. or less																								
Playback	On	Approx. 1.3 sec.	–																								
Mode	LCD Monitor	Camera Start-up Time*	Release Time Lag																								
Shooting	On	Approx. 1.0 sec.	0.1 sec. or less																								
	Off	Approx. 0.8 sec.																									
Playback	On	Approx. 1.3 sec.	–																								
Self-timer Shooting	Approx. 10-sec./approx. 2-sec. delay or custom* <ul style="list-style-type: none">* Still images only. Shooting start time (0 – 10 sec. (in one-second increments), 15 sec., 20 sec., 30 sec.) and number of shots (1 – 10 shots (in one-shot increments)) can be specified.																										
Wireless Controlled Shooting	Not available																										
Remote Shooting	Not available																										
Disp. Overlay	Off, Gridlines, 3:2 Guide*, Both* <ul style="list-style-type: none">* Still images only.																										

<Still Images>

Noise Reduction	When shutter speed is set between 15 and 1.3 sec.
Bracketing	Not available
Rec. Review	Off, 2 – 10 sec. (in one-second increments), Hold <ul style="list-style-type: none"> • Magnification and image erasing are also available.
Image Inspection Tool	Available
Night Display	Available
Shooting Interval	

	LCD Monitor	Shooting Interval
IXY DIGITAL 90	On	Approx. 1.4 sec.
	Off	—

	LCD Monitor	Shooting Interval
IXY DIGITAL 10	On	Approx. 1.4 sec.
	Off	Approx. 1.5 sec.

- Large and Fine.
- Focus settings: Normal shooting at max. wide angle.
- The actual shooting interval time consists of the shutter speed added to the above times.

Continuous Shooting

Mode Selection	Not available
Speed	Approx. 1.7 shots/sec. (Large and Fine)
Number of Shots	

<Low Level Format>

Unit: shots

	Large (L)			Medium 1 (M1)			Medium 2 (M2)			Medium 3 (M3)			Small (S)			Widescreen (W)		
	SF	F	N	SF	F	N	SF	F	N	SF	F ^{*1}	N	SF	F	N	SF	F	N
32 MB ^{*2}	3	6	22	4	10		7	22		18						4	9	
SDC-128M	3	6	40	4	13		8	37		29						4	11	
SDC-512MSH																		

■ : Smooth continuous shooting available (See the *Recording Capacity* for detailed values)

^{*1} Postcard Date Imprint mode is available.

^{*2} Memory card included with the camera.

- After exceeding the number of shots shown above, continuous shooting is available when the shutter button is still pressed. However, the shooting speeds will decrease.

Interval Shooting	Available
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<Movies>

Modes	Standard, Fast Frame Rate, Compact, Color Accent, Color Swap, Time Lapse
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Audio Specifications

Audio Functions	Sound Memos (also available during rec. review), Sound Recorder
Quantization Bit Rate	16 bit
Sampling Rate	Movies: 44.100 kHz (except Compact) / 11.025 kHz (Compact) Sound Memos: 11.025 kHz Sound Recorder: 44.100 kHz / 22.050 kHz / 11.025 kHz

Audio Functions	
Microphone, Speaker	Available
Microphone Level Adjustment	Not available
Wind Filter	Not available

Recording Specifications

<Still images, Movies>

Recording Media	SD memory card, SDHC memory card, MultiMediaCard
Format	Normal format, low level format
File Format	Design rule for camera file system, DPOF (Version 1.1) compliant
Data Type	Still images: Exif 2.2 (JPEG) Movies: AVI (Image data: Motion JPEG; Audio data: WAVE (monaural)) Sound memos, sound recorder: WAVE (monaural)
Folder Settings Management	
Capacity	Max. 900, up to 2,000 files can be stored per folder
Customization	Available (Create New Folder (on next shooting), Auto Create [*]) [*] Off, or user-specified time per day, month, day of the week.

<Still Images>

Color Space	Standard (sRGB)
Compression	Superfine, fine, normal
Number of Recording Pixels	

Unit: pixels

Large	3072 x 2304
Medium 1	2592 x 1944
Medium 2	2048 x 1536
Medium 3	1600 x 1200
Small	640 x 480
Postcard Date Imprint [*]	1600 x 1200
Widescreen	3072 x 1728

^{*} Compression is fixed to fine.

Recording Capacity

Unit: images

	Large (L)			Medium 1 (M1)			Medium 2 (M2)			Medium 3 (M3)			Small (S)			Widescreen (W)		
	SF	F	N	SF	F	N	SF	F	N	SF	F ^{*1}	N	SF	F	N	SF	F	N
File Size (KB)	3045	1897	902	2503	1395	695	1602	893	445	1002	558	278	249	150	84	2304	1420	678
32 MB ^{*2}	9	15	32	11	20	41	18	32	64	29	52	99	111	171	270	12	20	42
SDC-128M	40	64	134	49	87	173	76	136	269	121	217	411	460	711	1118	53	86	177
SDC-512MSH	156	251	520	190	339	671	295	529	1041	471	839	1590	1777	2747	4317	207	335	686

- The approximate number of images that can be recorded on memory cards of 1 GB and above can be calculated by using the figures for 512 MB as a reference and extrapolating accordingly.

^{*1} Postcard Date Imprint mode is available.

^{*2} Memory card included with the camera.

<Movies>

Recording Pixels, Frame Rate

	Recording Pixels	Frame Rate
Standard, Color Accent, Color Swap	640 x 480	30/15 fps
	320 x 240	30/15 fps
Fast Frame Rate	320 x 240	60 fps
Compact	160 x 120	15 fps
Time Lapse	640 x 480	0.5/1 fps [*]

^{*} Plays back at 15 fps.

Maximum Recording Length per Clip Standard, Color Accent, Color Swap: Continuous recording is possible until the file size reaches 4 GB*
Fast Frame Rate: 1 min.
Compact: 3 min.
Time Lapse: 2 hrs.

* Even if the file size has not reached 4 GB, the recording is stopped when the recording time reaches one hour. Depending on memory card capacity and data write speed, recording may stop before the file size reaches 4 GB or the recording time reaches one hour.

<Low Level Format>

	Standard, Color Accent, Color Swap				Fast Frame Rate	Compact	Time Lapse	
	640 x 480		320 x 240		320 x 240	160 x 120	640 x 480	
	30 fps	15 fps	30 fps	15 fps	60 fps	15 fps	1 sec. interval	2 sec. interval
32 MB*								
SDC-128M	29 sec.				1 min.	3 min.		
SDC-512MSH					1 min.	3 min.		

■ : Continuous recording is possible until the memory card becomes full

* Memory card included with the camera.

Recording Time

	Standard, Color Accent, Color Swap				Fast Frame Rate	Compact	Time Lapse	
	640 x 480		320 x 240		320 x 240	160 x 120	640 x 480	
	30 fps	15 fps	30 fps	15 fps	60 fps	15 fps	1 sec. interval	2 sec. interval
Movie Size (KB/sec.)	1963	1003	703	373	1363	131	64	32
32 MB*	14 sec.	27 sec.	38 sec.	1 min. 7 sec.	20 sec.	3 min. 9 sec.	7 min. 30 sec.	15 min.
SDC-128M	1 min. 1 sec.	1 min. 56 sec.	2 min. 42 sec.	4 min. 39 sec.	1 min. 27 sec.	13 min. 2 sec.	31 min. 45 sec.	1 hr. 3 min. 30 sec.
SDC-512MSH	3 min. 57 sec.	7 min. 30 sec.	10 min. 29 sec.	17 min. 58 sec.	5 min. 39 sec.	50 min. 21 sec.	2 hrs. 3 min. 30 sec.	4 hrs. 7 min.

• The approximate recording time available on memory cards of 1 GB and above can be calculated by using the figures for 512 MB as a reference and extrapolating accordingly.

* Memory card included with the camera.

<Audio>

Recording Time

Sound Memos

Sound Recorder

Up to 1 minute recording length per image

Up to 2 hours recording length per clip

	11.025 kHz	22.050 kHz	44.100 kHz
Data size (KB/sec.)	22	44	88
32 MB*	23 min. 4 sec.	11 min. 32 sec.	5 min. 46 sec.
SDC-128M	1 hr. 36 min. 59 sec.	48 min. 30 sec.	24 min. 15 sec.
SDC-512MSH	6 hrs. 14 min. 16 sec.	3 hrs. 7 min. 8 sec.	1 hr. 33 min. 34 sec.

• The approximate recording time available on memory cards of 1 GB and above can be calculated by using the figures for 512 MB as a reference and extrapolating accordingly.

* Memory card included with the camera.

Playback Specifications

<Still images, Movies>

Auto Rotate (Automatic vertical/horizontal detection)	Available (owing to the Intelligent Orientation Sensor) <ul style="list-style-type: none"> Images are displayed vertically or horizontally according to the camera's shooting position. For movie playback, the direction depends on the camera's position at the start of shooting. The setting for playback is linked to the setting chosen for shooting.
Resume Playback	Available

<Still Images>

Maximum Playback Pixels	4992 x 3328
Playback Modes	Single, index (9 thumbnail images)
Red-eye Correction	Available
Magnification	Approx. 2x – 10x <ul style="list-style-type: none"> Advancing and reversing through magnified images available.
Rotate	Rotates each image to 90 degrees or 270 degrees <ul style="list-style-type: none"> Both the LCD monitor and video output play back the image according to settings.
My Colors	Vivid, Neutral, Sepia, Black & White, Positive Film, Lighter Skin Tone, Darker Skin Tone, Vivid Blue, Vivid Green, Vivid Red
My Category	People, Scenery, Events, Category 1 – 3, To Do <ul style="list-style-type: none"> Functions that can be carried out by category: image search, erase, protect, slide show, print.
Jump	Top of the specified Shot Date, My Category, Folder, Movie, By 10 images, By 100 images <ul style="list-style-type: none"> Playback with a selected search key. Jumps to the next set of nine images each time button is pressed during index playback.
Histogram	Shooting: Not available Playback: Available
Overexposure Warning	Not available
Slide Show	Playback interval: 3 – 10 sec., 15 sec., 30 sec. Repeat: Available Playlist: All Images, Date, My Category, Folder, Movies, Stills, Custom 1 – 3 <ul style="list-style-type: none"> Only images with DPOF setting can be played back as slide show.
Transition Effects	Single image playback: 2 types Slide show: 3 types

<Movies>

Playback Functions	Normal playback, slow motion*, pause, first frame, last frame, next frame, and previous frame selectable. Fast forward and fast rewind are available. <ul style="list-style-type: none"> Display playback position and shooting time. <p>* 5 speed levels including normal-playback speed, without sound.</p>
Editing	Unwanted portions can be deleted (See <i>Erasing Modes</i> .)
Editing Unit	1-sec. increments
Compatibility	See 3-5 <i>Playback Compatibility</i>

Printing Specifications

See 3-4 *Direct print*

Direct Print	PictBridge, Canon Direct Print, Bubble Jet Direct
DPOF (Version 1.1)	
Print Specification	Select images & quantity for printing*, Select by date, Select by category, Select by folder, Select all images <ul style="list-style-type: none"> Up to a total of 998 images can be specified. <p>* Up to 99 prints of one image can be specified (other options allow only one print per image).</p>

Erasing Specifications

Erasing Modes	Select image, Select by date, Select by category, Select by folder, Select all images <ul style="list-style-type: none"> The image data in the memory card stored with the design rule for camera file systems format can be erased. (However, protected images can not be erased.) Erasing available in one-second increments using the movie editing function.
Protect (camera)	Select image, Select by date, Select by category, Select by folder, Select all images <ul style="list-style-type: none"> Prevents protected still images (including sound memos) and movies from being deleted (Specify at playback on camera.)
Protect (SD memory card/SDHC memory card)	Erasing prohibited for any data recorded on the SD memory card and SDHC memory card

Interface

Computer Interface	USB 2.0 Hi-Speed (mini-B jack)
Communication Settings	MTP, PTP
Audio Output	Monaural (φ 3.5 mm jack: Unified type for audio and video output)
Video Output	NTSC or PAL (φ 3.5 mm jack: Unified type for audio and video output)

Others

Display Languages	25 languages* (English, German, French, Dutch, Danish, Finnish, Italian, Norwegian, Swedish, Spanish, Simplified Chinese, Russian, Portuguese, Greek, Polish, Czech, Hungarian, Turkish, Traditional Chinese, Korean, Thai, Arabic, Romanian, Ukrainian, and Japanese) * Models for Japanese market available in 2 languages (Japanese and English).
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My Camera

Selectable Items	Start-up image, start-up sound, operation sound, self-timer sound, shutter sound
Number of Choices	3 choice (Off is also selectable.) 1: Canon's original images and sounds (Cannot be customized) 2: Customizable by the user* 3: Customizable by the user* * The 2nd option features science fiction related images and sounds. The 3rd option features animals related images and sounds. (Default settings)

Registerable Data

Images and sounds recorded with the camera
Images and sounds in the supplied software
Images and sounds downloaded from the online service (Canon Image Gateway*)
* Not available except Japan and Europe.

Specifications

Item	Specifications		
Start-up image	320 x 240 pixels, JPEG file with 4:2:0 or 4:2:2, aspect ratio of 4:3, 20 KB or less		
Start-up sound	WAVE (monaural) 8 bit	11 kHz: 1.0 sec. or less	8 kHz: 1.3 sec. or less
Operation sound		11 kHz: 0.3 sec. or less	8 kHz: 0.4 sec. or less
Self-timer sound		11 kHz: 2.0 sec. or less	8 kHz: 2.0 sec. or less
Shutter sound		11 kHz: 0.3 sec. or less	8 kHz: 0.4 sec. or less

Lens Retraction Timing	0 sec. (immediately), 1 min. later
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Date Function

Date Imprint	Off, Date, Date and time <ul style="list-style-type: none"> Postcard Date Imprint only.
Date Settings	Available up to the year 2037
Date Style	Year/month/day, month/day/year, or day/month/year

Clock Display	
Display Items	Vertical position: hour/minute/second/year/month/day Horizontal position: hour/minute/second • Also available during playback.
Display Colors	12 colors
World Time Display	Available • Home city (region) and destination city (region) can be selected from 32 choices.
Direct Transfer	Available (Windows/Macintosh) All Images, New Images, DPOF Trans. Images*, Select & Transfer, Wallpaper * Images with check-marks applied by the DPOF function only can be transferred.
Operation Sound	Volume adjustable (5 levels)
Mute	Available (including warning sound*) * Except when trying to open the battery cover while the indicator is blinking green.
Shortcut Settings	Disabled (default), Exposure compensation, white balance, Custom White Balance (load white data), digital tele-converter, Disp. Overlay, Movie, display off, Play Sound Effect
Reset of All Settings	Available

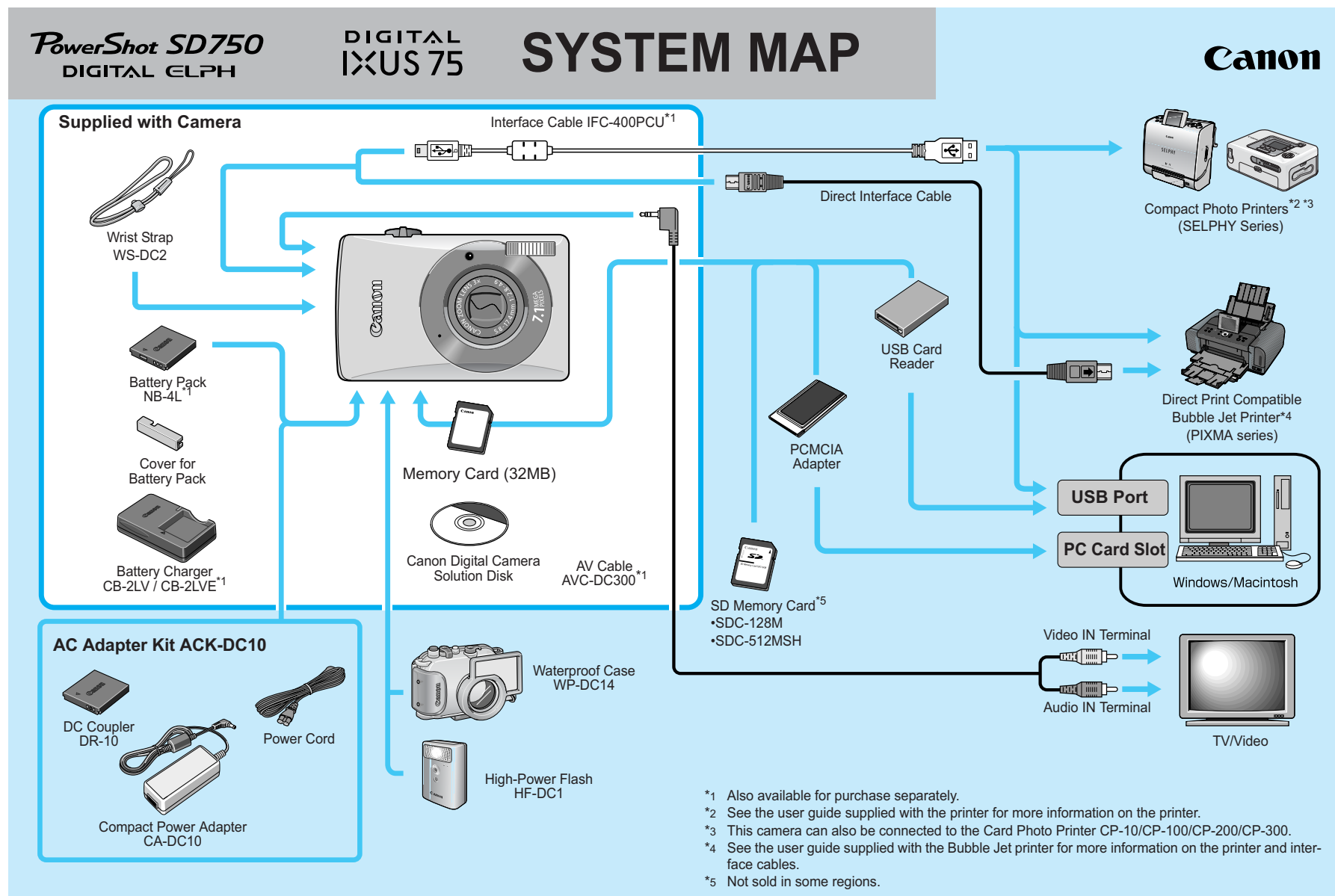
Power Supplies

Primary Batteries	Not available									
Secondary Batteries	Battery Pack NB-4L (Lithium-ion rechargeable battery)									
AC Adapter	Compact Power Adapter CA-DC10 <ul style="list-style-type: none">• DC Coupler DR-10 is required.									
Car Battery Adapter	Not available									
Sub-battery	MS lithium secondary battery MS614S									
Charging Time	Approx. 4 hours (charged from main battery)									
Duration	Approx. 2 weeks (after removal from the fully charged main battery)									
Battery Capacity										
Number of Images Shot	<table><tr><td></td><td>CIPA Standard compliant (LCD monitor On)</td><td>Canon Standard (LCD monitor Off)</td></tr><tr><td>IXY DIGITAL 90</td><td>Approx. 210 shots</td><td>–</td></tr><tr><td>IXY DIGITAL 10</td><td>Approx. 210 shots</td><td>Approx. 600 shots</td></tr></table>		CIPA Standard compliant (LCD monitor On)	Canon Standard (LCD monitor Off)	IXY DIGITAL 90	Approx. 210 shots	–	IXY DIGITAL 10	Approx. 210 shots	Approx. 600 shots
	CIPA Standard compliant (LCD monitor On)	Canon Standard (LCD monitor Off)								
IXY DIGITAL 90	Approx. 210 shots	–								
IXY DIGITAL 10	Approx. 210 shots	Approx. 600 shots								
Playback Time	Approx. 4 hours									
Power Saving Function										
Auto Power Down (when in idle)	Available <ul style="list-style-type: none">• Shooting mode: Approx. 3 min. later• Playback mode: Approx. 5 min. later• Connection to printer: Approx. 5 min. later• During slide show/connection to computer: The power saving function does not activate									
Display Off	10/20/30 sec., 1/2/3 min. <ul style="list-style-type: none">• The Intelligent Orientation Sensor detects the camera being moved and recovers from the display-off function.									

Camera Specifications

Operating Temperatures	0 – 40°C (32 – 104°F)
Operating Humidity	10 – 90%
Dimensions (excluding protrusions)	IXY DIGITAL 90: 91.6 x 56.8 x 19.6 mm (3.61 x 2.24 x 0.77 in.) IXY DIGITAL 10: 85.9 x 53.5 x 19.4 mm (3.38 x 2.11 x 0.76 in.)
Weight (camera body only)	IXY DIGITAL 90: Approx. 130 g (4.59 oz.) IXY DIGITAL 10: Approx. 125 g (4.41 oz.)

3-2 System Diagram



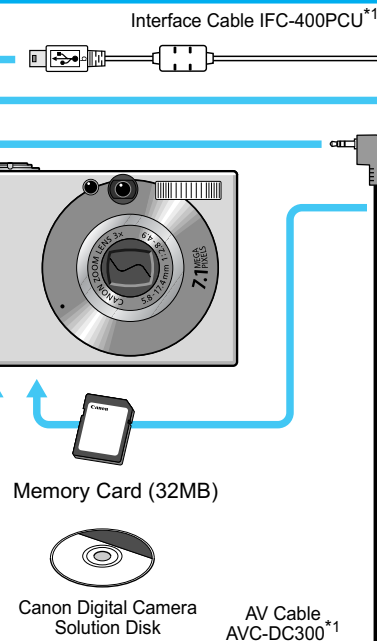
PowerShot SD1000
DIGITAL ELPH

**DIGITAL
IXUS 70**

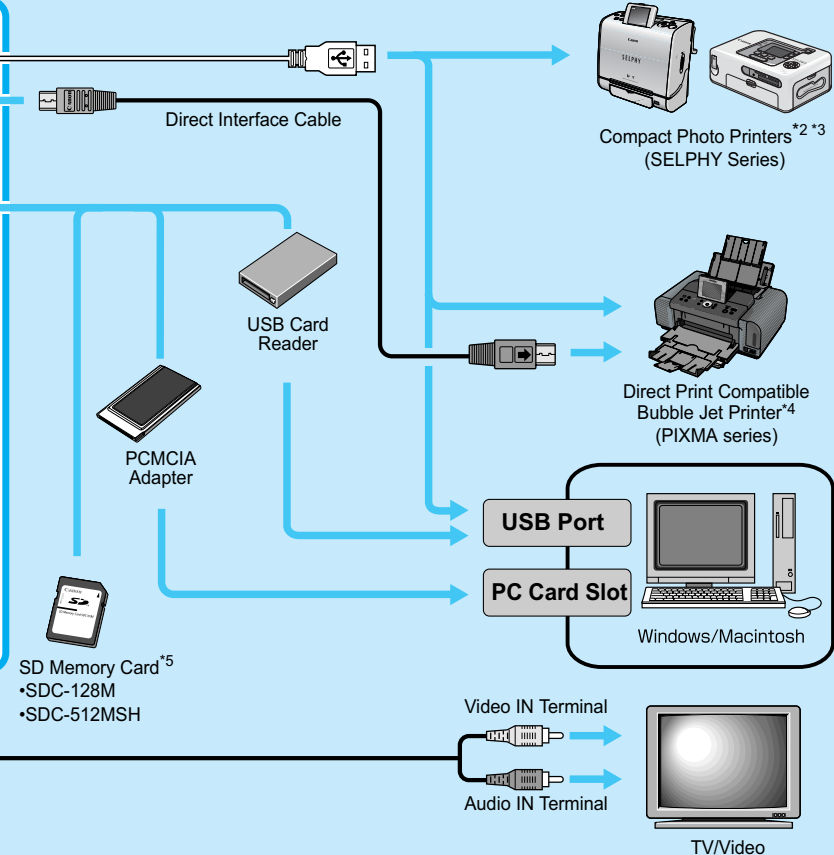
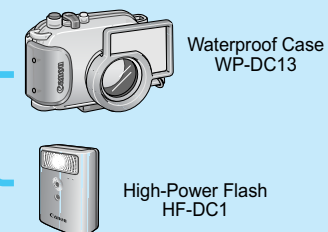
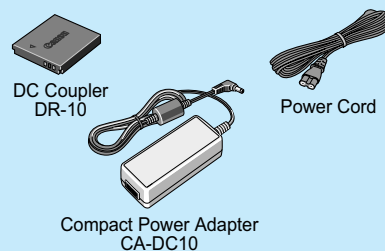
SYSTEM MAP

Canon

Supplied with Camera



AC Adapter Kit ACK-DC10



^{*1} Also available for purchase separately.

^{*2} See the user guide supplied with the printer for more information on the printer.

^{*3} This camera can also be connected to the Card Photo Printer CP-10/CP-100/CP-200/CP-300.

^{*4} See the user guide supplied with the Bubble Jet printer for more information on the printer and interface cables.

^{*5} Not sold in some regions.

3-3 Shooting/Setting Features List

		Camera M		Digital Macro	Color Accent/Color Swap	Stitch Assist	Auto	(Special) Scene Mode												Movies					Operation
		Long Shutter						Portrait	Foliage	Snow	Beach	Fireworks	Aquarium	Under water	Indoor	Kids & Pets	Night Snapshot	Standard	Fast Frame Rate	Compact	Time Lapse	Color Accent/Color Swap			
Exposure Compensation		○	x	○	x	○	x	○	○	○	○	○	○	○	○	○	○	x	x	x	x	x		FUNC.	
Long Shutter Mode		x	○	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		FUNC.	
ISO Speed	Auto	○	x	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○		ISO.	
	High ISO Auto	○	x	○	x	x	○	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x			
	80/100/200/400/800/1600	○	○	○	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x			
White Balance	Auto	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○		FUNC.	
	Other than Auto	○	○	○	x	○*1	x	x	x	x	x	x	x	x	x	x	○	○	○	○	○	x			
Drive Mode	Single Shooting	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○		DRIVE.	
	Continuous Shooting/Continuous Shooting AF	○	○	○	x	x	x	○	○	○	○	○	○	○	○	○	○	x	x	x	x	x			
	Self-timer 2 sec./10 sec.	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○			
	Custom Self-timer	○	○	○	x	x	○	○	○	○	○	○	○	○	○	○	x	x	x	x	x	x			
My Colors		○	○	○	x	○	x	x	x	x	x	x	x	x	x	x	x	○	○	○	○	x		FUNC.	
Metering System	Evaluative	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○		FUNC.	
	Center-weighted Average	○	x	○	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x			
	Spot	○	x	○	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x			
Number of recording pixels selection (still images)		○	○	○*2	○	○*2	○	○	○	○	○	○	○	○	○	○	○	x	x	x	x	x		FUNC.	
Compression selection (still images)		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	x	x	x	x	x		FUNC.	
Number of Recording Pixels/ Frame Rate Selection (movies)	640 × 480, 30 fps/15 fps	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	○	x	x	○	○		(Large)	
	320 × 240, 30 fps/15 fps	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	○	x	x	x	○				
	320 × 240, 60 fps	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	○	x	x	x		FUNC.	
	160 × 120, 15 fps	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	○	x	x			
AE/FE Lock		○	x	○	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		S1+ ISO	
Exposure Shift		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	○	○	○	○	x		ISO	
AF Lock		○	○	○	x	x	x	x	x	x	x	x	x	x	x	x	x	○	○	○	○	x		S1 + AF	
Focusing zone	Normal	○	○	x	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○		AF	
	Macro	○	○	○	○	○	○	○	○	○	○	x	○	○	○	x	○	○	○	○	○	○			
	Infinity	○	○	x	○	○	x	○	○	○	○	x	○	○	○	x	○	○	○	○	○	○			
Flash	Auto	○	x	x	○	x	○	○	○	○	○	x	x	○	○	○	○	x	x	x	x	x		FLASH	
	On	○	○	x	○	○	x	○	○	○	○	x	○	○	○	○	○	x	x	x	x	x			
	Off	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	x	x	x	x	x			
Finder Setting	LCD Monitor (off)	○	○	x	x	x	○	○	○	○	○	○	○	○	○	○	○	x	x	x	x	x		DISP.	
	LCD Monitor (no information)	○	○	○	x	x	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	x			
	LCD Monitor (information view)	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○			
Stitch Direction Selection (Right, Left)		x	x	x	x	○	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		FUNC. (OY D100) MENU (OY D101)	
AiAF	Off	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	x	x	x	x	x		MENU	
	On (9-point)	○	○	○	○	x	○	○	○	○	x	○	○	○	○	○	○	○	○	○	○	○			
	Face Detect	○	○	○	○	x	○	○	○	○	○	○	x	○	○	○	○	x	x	x	x	x			
Digital Zoom		○	○	○*3	x	x	○	○	○	○	○	○	○	○	○	○	○	○	x	x	x	x		MENU	
	Digital Tele-converter	○	○	x	x	x	○	○	○	○	○	○	○	○	○	○	○	x	x	x	x	x			
Slow Synchro	On	○	x	x	x	○	x	x	x	x	x	x	x	x	x	x	○	x	x	x	x	x		MENU	
	Off	○	○	x	○	○	○	○	○	○	x	○	○	○	○	○	x	x	x	x	x	x			
Custom Self-timer Setting (Time/Shots)		○	○	○	x	x	○	○	○	○	○	○	○	○	○	○	○	x	x	x	x	x		MENU	
Auto ISO Shift	On	○	x	○	x	x	○	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		MENU	
	Off	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	x	x	x	x	x	x			
AF-assist Beam		○	○	○	○	○	○	○	○	○	○	x	○*4	○	○	○	○	○	○	○	○	○		MENU	
Review (Rec. review)		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	x	x	x	x	x		MENU	
Save Original		x	x	x	○	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		MENU	
Disp. Overlay	Off	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○		MENU	
	Gridlines	○	○	○	○	x	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○			
	3:2 Guide/Both	○	○	○	○	x	○	○	○	○	○	○	○	○	○	○	○	x	x	x	x	x			
Date stamp (Postcard only)		○	○	x	○	x	○	○	○	○	○	○	○	○	○	○	○	x	x	x	x	x		MENU	
Formatting (Check mark for low level format)		○	○	○	○	x	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○		MENU	

[How to read symbols in the table]

○ : Selectable or optimum value is automatically set by the camera.

Settings can be made for the first image only with Stitch Assist, unless noted otherwise.

x : Not selectable.

Colored cells (■) : The settings will be retained even when power is turned off.

*1 : Custom White Balance is not available.

*2 : Postcard and Widescreen are not available.

*3 : Always set to on.

*4 : Available only when the flash is set to on.

3-4 Direct Print

3-4-1 Print Features of Direct Print

•Printing with SELPHY CP Series Printers

The product name of the camera and the printer that has been described in the table is Japanese names. However, the product not sold in Japan has described an overseas name.

Product Name	CP730 / 720 / 710 / 510 / 500 / 400 / 330 / 220 CP-300 / 200 / 100 / 10	CP600, ES1
PowerShot G3 / G2 PowerShot S45 / S40 / S30 PowerShot A40 / A30 / A20 / A10 / A200 / A100 IXY DIGITAL 320 / 300a / 200a / 300 / 200	①	④
PowerShot Pro1 PowerShot G5 PowerShot S1 IS / S50 PowerShot A80 / A70 / A60 / A300 IXY DIGITAL 400 / L / 30		
PowerShot G6 PowerShot S70 / S60 PowerShot A95 / A85 / A75 / A520 / A510 / A400 / A310 IXY DIGITAL 500 / 450 / L2 / 50 / 40 / 30a	②	⑤
IXY DIGITAL 700 / 600 / 60 / 55 / L3 / WIRELESS PowerShot A620 / A610 / A410		
PowerShot S3 IS / S2 IS / S80 PowerShot A700 / A540 / A530 / A430 / A420 IXY DIGITAL 800 IS / 80 / 70	③ / (⑥: When Connecting with PictBridge)	⑥
PowerShot TX1 PowerShot G7 PowerShot A710 IS / A570 IS / A560 / A550 / A640 / A630 / A460 / A450 IXY DIGITAL 1000 / 900 IS / L4 / 90 / 10		
	③ / (⑦: When Connecting with PictBridge)	



Canon Direct Print features

		①	②	③
Easy Print	Single Image Print	○	○	○
	Setting the Number of Copies ^{*1}	○	○	○
	Setting the Print Style	Standard ^{*2}	○	○
		Multiple ^{*3}	○	○
		ID Photo Print	×	○
		Borderless / Bordered	○	○
		Date	○	○
	Setting the Print Area (Trimming)	○ ^{*4}	○	○
Printing with DPOF Print Settings	Movie Print	×	○	○
	Several Selected Images Print	Sequence-frame	×	○
		Single-frame	×	○
	All Image Print	○	○	○
	Setting the Number of Copies ^{*1}	○	○	○
	Selecting the Print Type	Standard	○	○
		Index	○	○
		Both (Standard + Index)	○	○
	Date and File Number Print	Date ^{*5}	○	○
		File Number ^{*6}	○	○
	Setting the Print Style	Standard ^{*2}	○	○
		Multiple ^{*3}	○	○
	Borderless / Bordered	○	○	○ ^{*7}

[NOTE]

^{*1} 1 to 99 copies can be set per image.

^{*2} Prints one image per page.

^{*3} Prints eight copies of the same image on one page. This option can only be selected when printing on credit card size paper. When the print style is set to [Multiple], images are printed without any date or border.

^{*4} In PowerShot A20/A10 and IXY DIGITAL 300/200, trimming is not possible.

In PowerShot A60/A40/A30/A200/A100 and IXY DIGITAL 300a/200a, you can select the print area from the top-/center-/bottom-aligned. Depending on a paper size and aspect ratio of the image, the print area may be aligned to the left or right. However, the print area can be set, when the print style is [Borderless] and [Multiple].

^{*5} When the print type is set to [Index], the [Date] cannot be printed.

^{*6} When the print type is set to [Standard], the [File Number] cannot be printed.

^{*7} Communication setting with the printers (CP730/720/710/510) needs to be changed to PictBridge for full-sized borderless printing on wide-size paper.



PictBridge features

◆: Canon proprietary feature

		④	⑤	⑥	⑦
Easy Print	Single Image Print	○	○	○	○
	Date and File Number Print	Date	○	○	○
		File Number	×	○	○
	Setting the Print Effect	Auto ^{*1} (On/Off)	○	○	○
		◆ VIVID / NR / VIVID+NR	×	×	×
		◆ Face brightness adjustment	×	×	×
		◆ Red-eye1 correction ^{*2}	×	×	×
		◆ Red-eye2 correction ^{*3}	×	×	×
	Setting the Number of Copies ^{*4}	○	○	○	○
	Setting the Print Area (Trimming)	○	○	○	○
	Setting the Paper Size ^{*5}	○	○	○	○
	Setting the Paper Type ^{*6}	○	○	○	○
	Setting the Layout	Borderless / Bordered	○	○	○
		N-up ^{*7}	×	○	○
		Fixed Size ^{*8}	×	○	○
		◆ ID Photo Print	×	○	○
		◆ 20 image index with shooting information	×	×	×
		◆ Contact-sheet type 35 image index	×	×	×
		Print with the shooting information	×	×	×
	Movie Print	◆ Sequence-frame	×	○	○
		Single-frame ^{*9}	×	×	○
Printing with DPOF Print Settings	Several Selected Images Print	○	○	○	○
	All Image Print	○	○	○	○
	Selecting the Print Type	Standard	○	○	○
		Index	○	○	○
		Both (Standard + Index)	○	○	○
	Date and File Number Print	Date ^{*10}	○	○	○
		File Number ^{*10}	×	○	○
	Setting the Print Effect	Auto ^{*1} (On/Off)	○	○	○
		◆ VIVID / NR / VIVID+NR	×	×	×
		◆ Face brightness adjustment	×	×	×
		◆ Red-eye1 correction ^{*2}	×	×	×
		◆ Red-eye2 correction ^{*3}	×	×	×
	Setting the Number of Copies ^{*4}	○	○	○	○
	Setting the Paper Size ^{*5}	○	○	○	○
	Setting the Paper Type ^{*6}	○	○	○	○
	Setting the Layout	Borderless / Bordered	○	○	○
		N-up ^{*7}	×	○	○
		Fixed Size ^{*8}	×	○	○
		◆ ID Photo Print	×	×	×
		◆ 20 image index with shooting information	×	×	×
		◆ Contact-sheet type 35 image index	×	×	×
		Print with the shooting information	×	×	×

[NOTE]

^{*1} Uses the camera's shooting information to optimize the image data.

^{*2} Red-eye correction only.

^{*3} Red-eye + NR + Face brightness adjustment.

^{*4} 1 to 99 copies can be set per image.

^{*5} For the usable paper size, refer to the printer user guide.

^{*6} Default only.

^{*7} Prints 2, 4 or (8) images on a single sheet of paper. (8 can only be selected when printing on credit card size paper.)

^{*8} Prints by specifying the print size of the image on a sheet of paper. For the paper size and the print size, refer to the direct print user guide.

^{*9} Only available with cameras supporting Movie Print (in single frames) function.

^{*10} When the print type is set to [Index], the [Date] and [File Number] cannot be set at the same time.

•Printing with Canon Bubble Jet Printers (PIXMA series/SELPHY DS series)

The product name of the camera and the printer that has been described in the table is Japanese names. However, the product not sold in Japan has described an overseas name.

Product Name	PIXUS 470PD / 450i / 50i / BJ 895PD / 535PD / F890PD	PIXUS MP390 / MP375R / MP370 / PIXUS 475PD / 455i / 80i	PIXUS 865R / 860i / 560i	PIXUS MP900 / PIXUS IP9910 / 9900i / 990i / 900PD / SELPHY DS700	PIXUS MP790 / MP770 / PIXMA MP750 / PIXUS IP8600 / IP8100 / IP7100 / IP4100R / IP3100 / IP2000 / IP90 / PIXMA IP5000	PIXUS IP4200	PIXUS MP500 / MP170 / PIXMA MP530 / MP450 / MP150 / PIXMA IP6220D / IP6210D / PIXUS mini220 / SELPHY DS810	PIXUS MP980 / MP830 / MP800 / MP800R / PIXUS IP7500 / IP6800D / IP5200 / IP5200R	PIXUS IP6700D / IP6320D / IP6310D	PIXUS ix5000 / PIXMA ix4000 / PIXUS IP4300 / IP3300	PIXUS MP510 / MP460 / PIXMA MP180 / MP160	PIXUS Pro9500 / Pro9000	PIXUS MP960 / MP810 / MP600 / PIXMA MP600R / PIXMA IP5300 / PIXUS mini260
PowerShot G3 / G2	Bubble Jet Direct is not available												
PowerShot S45 / S40 / S30													
IXY DIGITAL 320 / 300a / 200a													
PowerShot Pro1													
PowerShot G6 / G5													
PowerShot S1 IS / S70 / S60 / S50													
PowerShot A95 / A85 / A80 / A75 / A70 / A60 / A400 / A310 / A300													
IXY DIGITAL 500 / 450 / 400 / L / 30a / 30													
PowerShot A520 / A510													
IXY DIGITAL L2 / 50 / 40													
PowerShot S2 IS													
IXY DIGITAL 600 / 55													
PowerShot S3 IS / S80													
PowerShot A700 / A620 / A610 / A540 / A530 / A430 / A420 / A410													
IXY DIGITAL 800 IS / 700 / L3 / 80 / 70 / 60 / WIRELESS													
PowerShot TX1													
PowerShot G7													
PowerShot A710 IS / A570 IS / A560 / A550 / A640 / A630 / A460 / A450													
IXY DIGITAL 1000 / 900 IS / L4 / 90 / 10													

Bubble Jet Direct features

		①
Easy Print	Single Image Print	○
	Setting the Number of Copies ^{*1}	○
	Setting the Print Style	Paper Size ^{*2}
		Borderless / Bordered
		Date
Printing with DPOF Print Settings	Setting the Print Area (Trimming)	○ ^{*3}
	Several Selected Images Print	○
	All Image Print	○
	Setting the Number of Copies ^{*1}	○
	Selecting the Print Type	Standard
		Index
		Both (Standard + Index)
	Date and File Number Print	Date
		File Number
	Setting the Print Style	Borderless / Bordered

[NOTE]

^{*1} 1 to 99 copies can be set per image.

^{*2} For the usable paper size, refer to the printer user guide.

^{*3} In PowerShot A60 and IXY DIGITAL 300a/200a, you can select the print area from Top/Center/Bottom. Depending on a paper size and aspect ratio of the image, the print area may be aligned to the left or right. However, the print area can be set when the print style is [Borderless].

PictBridge features

◆: Canon proprietary feature

		②	③	④	⑤	⑥	⑦	⑧	⑨	⑩
Easy Print	Single Image Print	○	○	○	○	○	○	○	○	○
	Date and File Number Print	Date	○	○	○	○	○	○	○	○
		File Number	×	×	×	×	○	○	○	○
		Auto ^{*1} (On/Off)	○	○	○	○	○	○	○	○
	Setting the Print Effect	◆ VIVID / NR / VIVID+NR	×	△ ^{*2}	○	○	○	○	○	○
		◆ Face brightness adjustment	×	×	×	×	×	○	○	○
		◆ Red-eye1 correction ^{*3}	×	×	×	×	×	×	×	○
		◆ Red-eye2 correction ^{*4}	×	×	×	×	×	×	×	○
	Setting the Number of Copies ^{*5}	○	○	○	○	○	○	○	○	○
	Setting the Print Area (Trimming)	○	○	○	○	○	○	○	○	○
	Setting the Paper Size ^{*6}	○	○	○	○	○	○	○	○	○
	Setting the Paper Type ^{*7}	○	○	○	○	○	○	○	○	○
	Setting the Layout	Borderless / Bordered	○	○	○	○	○	○	○	○
		N-up ^{*8}	×	×	×	○ ^{*9}	○ ^{*9}	○	○ ^{*9}	○
		Fixed Sixe ^{*10}	×	×	×	×	×	×	×	×
		◆ ID Photo Print	×	×	×	×	×	×	×	×
		◆ 20 image index with shooting information ^{*11}	×	×	×	×	×	○	○	○
		◆ Contact-sheet type 35 image index ^{*12}	×	×	×	×	×	○	○	○
Printing with DPOF Print Settings	Movie Print	Print with the shooting information ^{*13}	×	×	×	×	×	○	○	○
		◆ Sequence-frame	×	×	×	×	×	×	×	×
		Single-frame ^{*14}	○	○	○	○	○	○	○	○
	Several Selected Images Print	○	○	○	○	○	○	○	○	○
	All Image Print	○	○	○	○	○	○	○	○	○
	Selecting the Print Type	Standard	○	○	○	○	○	○	○	○
		Index	○	○	○	○	○	○	○	○
		Both (Standard + Index)	○	○	○	○	○	○	○	○
	Date and File Number Print	Date ^{*15}	○	○	○	○	○	○	○	○
		File Number ^{*15} ^{*16}	×	×	×	×	○	○	○	○
	Setting the Print Effect	Auto ^{*1} (On/Off)	○	○	○	○	○	○	○	○
		◆ VIVID / NR / VIVID+NR	×	△ ^{*2}	○	○	○	○	○	○
		◆ Face brightness adjustment	×	×	×	×	×	○	○	○
		◆ Red-eye1 correction ^{*3}	×	×	×	×	×	×	×	○
		◆ Red-eye2 correction ^{*4}	×	×	×	×	×	×	×	○
	Setting the Number of Copies ^{*5}	○	○	○	○	○	○	○	○	○
	Setting the Paper Size ^{*6}	○	○	○	○	○	○	○	○	○
	Setting the Paper Type ^{*7}	○	○	○	○	○	○	○	○	○
	Setting the Layout	Borderless / Bordered	○	○	○	○	○	○	○	○
		N-up ^{*8}	×	×	×	○ ^{*9}	○ ^{*9}	○	○ ^{*9}	○
		Fixed Sixe ^{*10}	×	×	×	×	×	×	×	×
		◆ ID Photo Print	×	×	×	×	×	×	×	×
		◆ 20 image index with shooting information ^{*11}	×	×	×	×	×	○	○	○
		◆ Contact-sheet type 35 image index ^{*12}	×	×	×	×	×	○	○	○

[NOTE]

^{*1} Uses the camera's shooting information to optimize the image data.

^{*2} VIVID only.

^{*3} Red-eye correction only.

^{*4} Red-eye + NR + Face brightness adjustment.

^{*5} 1 to 99 copies can be set per image.

^{*6} For the usable paper size, refer to the printer user guide.

^{*7} For the usable paper type, refer to the printer user guide.

^{*8} Prints 2, 4, 9 or 16 images on a single sheet of paper. The number of images that can be arranged on a single sheet of paper is different depending on the printer and the paper size. Then, refer to the print user guide.

^{*9} Not available when connecting with the PIXUS Pro9500 printer.

^{*10} Prints by specifying the print size of the image on a sheet of paper. For the paper size and the print size, refer to the direct print user guide.

^{*11} Only available with cameras supporting 20 image index layout with shooting information.

^{*12} Only available with cameras supporting contact-sheet type 35 image index layout.

^{*13} Not available when printing without borders.

^{*14} [Single-frame] is only possible, when the camera corresponds to the Movie print (Single-frame).

^{*15} When the print type is set to [Index], the [Date] and [File Number] cannot be set at the same time.

^{*16} When the print type is set to [Standard], the [File Number] cannot be printed.

3-4-2 The Connection between Digital Cameras and Printers

The connection between Canon digital cameras (PowerShot series and IXY series) and printers shows in Table 1.

<div>Printers</div> <div>Digital Cameras</div>		Canon Direct Print / Bubble Jet Direct / PictBridge support			Canon Direct Print / Bubble Jet Direct support	Canon Direct Print support
		Cameras released in 2006 and 2007	Cameras released in 2003 and 2005 (Except for PS A520/A510) PS Pro1/S1 IS	Cameras released in 2004 (Except for PS Pro1/S1 IS) PS A520/A510	PS G3/G2/S45/S40/S30, ID 320/300a/200a	PS A40/A30/A20/A10, A200/A100, ID 300/200
CP series (Canon Direct Print support)	CP-10 CP-100	Canon Direct Print				
CP series (Canon Direct Print, PictBridge support)	CP-200/300 CP220/330					
SELPHY CP series (Canon Direct Print, PictBridge support)	CP730/720/710/510 CP500/400					
	ES1, CP600	PictBridge				
PIXMA series (Bubble Jet Direct support)		PictBridge				-
PIXMA series (Bubble Jet Direct, PictBridge support)						-
SELPHY DS series (Bubble Jet Direct, PictBridge support)						-
Other manufacturer's Printer (PictBridge support)						-

- IXY (ID) is the name for Japanese market.
- The supporting digital cameras and printers are included by improvement of the version of the firmware.
- For SLR digital cameras and video cameras, refer to their Technical Guidance.

* It is possible to change printer connection to PictBridge with the camera. However, the change is unnecessary, except when full-sized borderless printing on wide-size paper with CP730/720/710/510.

Table 1 The connection between Digital Cameras and Printers

3-5 Playback Compatibility

3-5-1 Still Images

			Cameras for playback (except SLR cameras)						
			CF card			SD memory card		SD•MMC*	
			ID 400/320/300a/300/200a/200, IXY DIGITAL PS S20/S10 PS A70/A60/A40/A30/A20/A10/A300/A200/A100	PS G3/G2/G1 PS Pro90 IS PS S50/S45/S40/S30	PS Pro1 PS G6/G5 PS S70/S60	ID 500/450 PS S1 IS PS A95/A85/A80/A75/A310	ID 30 PS S2 IS PS A400	ID 600/55/50/40/30a/L ² /L PS S2 IS PS A400	ID 90/10 PS TX1 PS A570 IS/A560/A550/A460/A450 ID 1000/900 IS/800 IS/700/80/70/60/L ⁴ /L ³ /WIRELESS PS G7 PS S3 IS/S80 PS A710 IS/A700/A640/A630/A620/A610/A540/A530/A520/A510/A430/A420/A410
Cameras for shooting (except SLR cameras)	CF	ID 500/450/400/320/300a/300/200a/200, IXY DIGITAL PS S1 IS PS S20/S10 PS A95/A85/A80/A75/A70/A60/A40/A30/A20/A10/A310/A300/A200/A100	○	○	○	○	□	□	□
		PS G6/G5/G3/G2/G1 PS Pro90 IS PS S70/S60/S50/S45/S40/S30	○* ¹	○	○	○* ¹	□* ¹	□* ¹	□* ¹
		PS Pro1	○* ¹ * ²	○* ²	○	○* ¹	□* ¹ * ²	□* ¹	□* ¹
	SD	ID 600/55/50/40/30a/30/L ² /L PS S2 IS PS A400	□	□	□	□	○	○	○
		ID 90/10 PS TX1 PS A570 IS/A560/A550/A460/A450 ID 900 IS/800 IS/700/80/70/60/L ⁴ /L ³ /WIRELESS PS S3 IS PS A710 IS/A700/A620/A610/A540/A530/A520/A510/A430/A420/A410	□	□	□	□	○* ³	○* ³	○
	SD MMC*	ID 1000 PS G7 PS S80 PS A640/A630	□* ²	□* ²	□	□	○* ² * ³	○* ³	○

PS : PowerShot

ID : IXY DIGITAL (The model names of IXY are for Japanese market)

○ : Playback available

□ : Playback available when interchange of memory cards

*¹Thumbnail is displayed for RAW image

*²JPEG file can be played-back up to 3200 x 2400 pixels (Thumbnail displays when more than 3200 x 2400 pixels)

*³Images recorded in the MultiMediaCard may not be played-back.

* MultiMediaCard

3-5-2 Movies

		Cameras for playback											
		CFcard						SD memory card		SD•MMC*			
		IXY DIGITAL PS S20/S10 PS A20/A10	PS G2/G1 PS Pro90 IS PS S40/S30	ID 300a/300/ 200a/200 PS A40/A30/ A200/A100	PS Pro1 PS G6/G5/G3 PS S70/S60/S50/S45 ID 500/450/400/320 PS A95/A85/A80/A75/ A70/ A60/A310/A300	PS S1 IS	ID 30a/30/ L ² /L PS 400	ID 600/55/ 50/40 PS S2 IS	PS A520/ A510	ID 800 IS/700/80/ 70/60/L ³ / WIRELESS PS S80 PS A700/A620/ A610/A540/A530/ A430/A420/A410	PS A550/A460/ A450 PS S3 IS PS A710 IS/ A640/A630	ID 1000/ 900 IS/ L ⁴ PS G7	ID 90/10 PS TX1 PS A570 IS/ A560
Cameras for shooting	CF	PS G2/G1 PS Pro90 IS PS S40/S30	×	○	○ ^{*1}	○	○	□	□	□	□	□	□
		ID 300a/300/200a/200 PS A40/A30/A200/A100	×	○ ^{*1}	○	○	□	□	□	□	□	□	□
		ID 500/450/400/320 PS Pro1 PS G6/G5/G3 PS S70/S60/S50/S45 PS A95/A85/A80/A75/A70/A60/A310/A300	×	○ ^{*1}	○ ^{*1}	○	□	□	□	□	□	□	□
		PS S1 IS	×	×	×	○	×	□	×	□	□	□	□
	SD	ID 30a/30/L ² /L PS 400	×	□ ^{*1}	□ ^{*1}	□	○	○	○	○	○	○	○
		ID 600/55/50/40	×	×	×	□	×	○	×	○	○	○	○
		PS S2 IS	×	×	×	×	×	×	×	○	○	○	○
	SD MMC*	PS A520/A510	×	□ ^{*1}	□ ^{*1}	□	○ ^{*2}	○ ^{*2}	○	○	○	○	○
		PS A550/A460/A450 ID 800 IS/700/80/70/60/L ³ /WIRELESS PS S3 IS (except 320 x 240, 60 fps)/ S80 (except XGA) PS A710 IS/A700/A640/A630/A620/A610/ A540/A530/A430/A420/A410	×	×	×	×	×	○ ^{*2}	×	○	○	○	○
		PS S3 IS (320 x 240, 60 fps)	×	×	×	×	×	×	×	×	○	○	○
		PS S80 (XGA)	×	×	×	×	×	×	×	○	○	○	○
		PS TX1^{*3}, PS A570 IS^{*3}, PS A560, ID 90/10^{*3} ID 1000/900 IS/L ⁴ PS G7	×	×	×	×	×	×	×	×	×	○	○
		Time Lapse: PS TX1, PS A570 IS, ID 90/10 1280 x 720: PS TX1	×	×	×	×	×	×	×	×	×	×	○

PS : PowerShot

ID : IXY DIGITAL (The model names of IXY are for Japanese market)

○ : Playback available

□: Playback available when interchanging of memory cards

× : Playback not available

^{*1}Playback not available when file size or recording time exceeds each limit.

^{*2}Images recorded in the MultiMediaCard (MMC) may not be played-back.

^{*3}Except Time Lapse Movie

^{*4}Except 1280 x 720

* MultiMediaCard

3-6 List of Accessory and Its Compatibility

3-6-1 Camera

PS: PowerShot ID: IXY DIGITAL (The model names of IXY are for Japanese market)

	PS A570 IS A560 A550 A540 A530 A520 A510	PS A460 A450 A420 A410 A400 A310	PS TX1 ID 90/10 WIRELESS/ 80/70 60/55/ 50/40	PS G7	ID 1000 900 IS 800 IS	PS A710 IS A700	ID L ⁴ L ³	PS A640 A630 A620 A610	PS S80	PS S3 IS S2 IS	ID 700 600 30a 30	ID L ² L	PS G6	PS A95 A80	PS S70 S60	PS A85 A75 A70 A60	PS A300 A200 A100	ID 500 450 400	PS S1 IS	PS Pro1	PS PS G5 PS G3	PS S50 S45 S40 S30	ID 320 200a 200	ID 300a 300	PS A40 A30 A20 A10	PS G2	ID IXY DIGI- TAL	PS Pro 90 IS	PS G1
<Battery>																													
NB-5H	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NB-1L/1LH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	O	-	-	-	-	O	O	-	-	O	-	-
NB-2L/2LH	-	-	-	O	-	-	-	-	O	-	-	-	-	-	O	-	-	-	-	-	-	O	-	-	-	-	-	-	-
NB-3L	-	-	-	-	-	-	-	-	-	-	O	O	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NB-4L	-	-	O	-	-	-	O	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NB-5L	-	-	-	-	-	O	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BP-511/511A	-	-	-	-	-	-	-	-	-	-	-	-	O	-	-	-	-	-	-	O	O	-	-	-	-	O	-	O	O
BP-512/514	-	-	-	-	-	-	-	-	-	-	-	-	O	-	-	-	-	-	-	O	O	-	-	-	-	O	-	-	-
NB4-100/NB4-200	O	O	-	-	-	O	-	O	-	O	-	-	-	O	-	O	O	-	O	-	-	-	-	-	O	-	-	-	-
NB4-300	O	O	-	-	-	O	-	O	-	O	-	-	-	O	-	O	O	-	O	-	-	-	-	-	O	-	-	-	-
<Adapter/Charger>																													
100E(DK110)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ACK300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	O	-	-	-
ACK500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	O	-	-	-	-	O	O	-	-	-	-	-
ACK600	-	-	-	-	-	-	-	O	-	-	-	-	-	O	-	O	-	-	-	-	-	-	-	-	O	-	-	-	-
ACK900	-	-	-	-	-	-	-	-	-	-	O	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ACK700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	O	-	-	-	-	-	-	O	-	-	-	-	-	-	-
ACK800	O	O	-	-	-	O	-	-	-	-	-	-	-	-	-	-	O	-	-	-	-	-	-	-	-	-	-	-	-
ACK-DC10	-	-	O	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ACK-DC20	-	-	-	O	-	-	-	-	O	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ACK-DC30	-	-	-	-	O	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA-DC20	-	-	-	-	-	-	O	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CA-PS700 (N)	-	-	-	O	-	-	-	-	-	O	-	-	-	-	-	-	-	-	O	-	-	-	-	-	-	-	-	-	-
CA-560	-	-	-	-	-	-	-	-	-	-	-	-	O	-	-	-	-	-	-	O	O	-	-	-	-	O	-	O	O
CA-570 + CG-560/570	-	-	-	-	-	-	-	-	-	-	-	-	O	-	-	-	-	-	-	O	O	-	-	-	-	O	-	O	O
CR-560	-	-	-	-	-	-	-	-	-	-	-	-	O	-	-	-	-	-	-	O	O	-	-	-	-	O	-	O	O
CB-5L/CG-580	-	-	-	-	-	-	-	-	-	-	-	-	O	-	-	-	-	-	-	O	O	-	-	-	-	O	-	O	O
CB-2L/2LE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	O	-	-	-
CB-2LS/2LSE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	O	-	-	-	-	O	O	-	-	O	-	-
CB-2LT/CB-2LTE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	O	-	-	-	-	-	-	O	-	-	-	-	-	-	-
CB-2LU/2LUE	-	-	-	-	-	-	-	-	-	-	O	O	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CB-2LV/2LVE	-	-	O	-	-	-	O	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CB-2LW/2LWE	-	-	-	O	-	-	-	-	O	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CB-2LX/CB-2LXE	-	-	-	-	O	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CB-3AH(CBK-100)	O	O	-	-	-	O	-	O	-	O	-	-	-	O	-	O	O	-	O	-	-	-	-	-	O	-	-	-	-
CB-4AH(CBK4-200)	O	O	-	-	-	O	-	O	-	O	-	-	-	O	-	O	O	-	O	-	-	-	-	-	O	-	-	-	-
CBC-NB1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	O	-	-	-	-	O	O	-	-	O	-	-
CBC-NB2	-	-	-	O	-	-	-	-	O	-	-	-	-	-	O	-	-	-	-	-	-	O	-	-	-	-	-	-	-
CB-5AH(CBK4-300)	O	O	-	-	-	O	-	O	-	O	-	-	-	O	-	O	O	-	O	-	-	-	-	-	O	-	-	-	-
<DC Coupler>																													
DR-100/100A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DR-300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	O	-	-	-
DR-500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	O	-	-	-	-	O	O	-	-	-	-	-
DR-700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	O	-	-	-	-	-	-	O	-	-	-	-	-	-	-
DR-900	-	-	-	-	-	-	-	-	-	-	O	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DR-10	-	-	O	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DR-20	-	-	-	O	-	-	-	-	O	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DR-30	-	-	-	-	O	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

	PS A570 IS A560 A540 A530 A520 A510	PS A460 A450 A420 A410 A400 A310	PS TX1 ID 90/10 WIRELESS/ 80/70 60/55/ 50/40	PS G7	ID 1000 900 IS 800 IS	PS A710 IS A700	ID L ⁴ L ³	PS A640 A630 A620 A610	PS S80	PS S3 IS S2 IS	ID 700 600 30a 30	ID L ² L	PS G6	PS A95 A80	PS S70 S60	PS A85 A75 A70 A60	PS A300 A200 A100	ID 500 450 400	PS S1 IS	PS Pro1	PS PS G5 PS G3	PS S50 S45 S40 S30	ID 320 200a 200	ID 300a 300	PS A40 A30 A20 A10	PS G2	ID IXY DIGI- TAL	PS Pro 90 IS	PS G1	
<Lens Accessory>																														
WC-DC52	O (except 560/550/530)	-	-	-	-	-	-	-	-	-	-	-	-	O	-	O	-	-	-	-	-	-	-	-	-	O	-	-	-	-
WC-DC58	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	O	-	O	O
WC-DC58N	-	-	-	-	-	O	-	O	-	-	-	-	O	-	-	-	-	-	-	-	O	-	-	-	-	-	-	-	-	-
WC-DC52A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	O	-	-	-	-	-	-	-	-	-	-	-
WC-DC58A	-	-	-	-	-	-	-	-	-	O	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WC-DC58B	-	-	-	O	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WC-DC10	-	-	-	-	-	-	-	-	O	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TC-DC52	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	O	-	-	-	-	-	-	-	-	-	O	-	-	-	-
TC-DC52A	O (except 560/550/530)	-	-	-	-	-	-	-	-	-	-	-	-	O	-	O	-	-	-	-	-	-	-	-	-	O	-	-	-	-
TC-DC52B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	O	-	-	-	-	-	-	-	-	-	-	-
TC-DC58	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	O	-	-	O
TC-DC58N	-	-	-	-	-	O	-	O	-	-	-	-	O	-	-	-	-	-	-	-	O	-	-	-	-	-	-	-	-	-
TC-DC58A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	O	-	-	-	-	-	-	-	-	-	-
TC-DC58B	-	-	-	-	-	-	-	-	-	O	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TC-DC58C	-	-	-	O	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TC-DC10	-	-	-	-	-	-	-	-	O	-	-	-	-	-	O	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250D 52mm	O (except 560/550/530)	-	-	-	-	-	-	-	-	-	-	-	-	O	-	O	-	-	-	-	-	-	-	-	-	O	-	-	-	-
250D 58mm	-	-	-	-	-	O	-	-	-	-	-	-	O	-	-	-	-	-	-	-	O	-	-	-	-	-	O	-	-	O
500D 52mm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	O	-	-	-	-	-	-	-	-	-	-	-
500D 58mm	-	-	-	-	-	-	-	-	-	O	-	-	-	-	-	-	-	-	-	O	-	-	-	-	-	-	-	-	O	-
LA-DC52	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	O(20/10)	-	-	-	-
LA-DC52B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	O(40/30)	-	-	-	-
LA-DC52C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	O	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LA-DC52D	-	-	-	-	-	-	-	-	-	-	-	-	-	O	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LA-DC52E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	O	-	-	-	-	-	-	-	-	-	-	-
LA-DC52F	O (except 570/560/550/ 530)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LA-DC52G	O (570)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LA-DC58	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	O	-	-	O
LA-DC58B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	O	-	-	-	-	-	-	-	-	-
LA-DC58C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	O	-	-	-	-	-	-	-	-	-	-
LA-DC58D	-	-	-	-	-	-	-	-	-	-	-	-	O	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LA-DC58E	-	-	-	-	-	-	-	-	-	O	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LA-DC58F	-	-	-	-	-	-	-	O	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LA-DC58G	-	-	-	-	-	O	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LA-DC58H	-	-	-	O	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LA-DC10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	O	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LA-DC20	-	-	-	-	-	-	-	-	O	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FA-DC58A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	O	-	-	-	-	-	-	-	-	-	-
LH-DC58	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	O	-
LH-DC10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	O	-	-	-	-	-	-	-	-	-	-
LH-DC20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	O	-	-	-	-	-	-	-	-	-	-
LH-DC30	-	-	-	-	-	-	-	-	-	-	-	-	O	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LH-DC40	-	-	-	-	-	-	-	-	-	O	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LAH-DC20	-	-	-	-	-	-	-	-	O	O	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LAH-DC10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	O	-	-	-	-	-	-	-	-	-	-	-
<Speedlite>																														
220EX	-	-	-	O	-	-	-	-	-	-	-	-	O	-	-	-	-	-	-	O	O	-	-	-	-	-	O	-	O	O
380EX	-	-	-	-	-	-	-	-	-	-	-	-	O	-	-	-	-	-	-	O	O	-	-	-	-	-	O	-	O	O
420EX	-	-	-	-	-	-	-	-	-	-	-	-	O	-	-	-	-	-	-	O	O	-	-	-	-	-	O	-	O	O
430EX	-	-	-	O	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
550EX	-	-	-	-	-	-	-	-	-	-	-	-	O	-	-	-	-	-	-	O	O	-	-	-	-	-	O	-	O	O
580EX	-	-	-	O	-	-	-	-	-	-	-	-	O	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(MR-14EX)	-	-	-	-	-	-	-	-	-	-	-	-	O	-	-	-	-	-	-	O	O	-	-	-	-	-	O	-	-	-

	PS A570 IS A560 A540 A530 A520 A510	PS A460 A450 A420 A410 A400 A310	PS TX1 ID 90/10 WIRELESS/ 80/70 60/55/ 50/40	PS G7	ID 1000 900 IS 800 IS	PS A710 IS A700	ID L ⁴ L ³	PS A640 A630 A620 A610	PS S80	PS S3 IS S2 IS	ID 700 600 30a 30	ID L ² L	PS G6	PS A95 A80	PS S70 S60	PS A85 A75 A70 A60	PS A300 A200 A100	ID 500 450 400	PS S1 IS	PS Pro1	PS PS G5 PS G3	PS S50 S45 S40 S30	ID 320 200a 200	ID 300a 300	PS A40 A30 A20 A10	PS G2	ID IXY DIGI- TAL	PS Pro 90 IS	PS G1		
(MT-24EX)				-	-	-	-	-	-	-	-	-	O	-	-	-	-	-	-	O	O	-	-	-	-	-	-	-	-	-	
HF-DC1	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	
<Wireless Remote Contorol Unit>																															
WL-DC100	-	-	-	-	-	-	-	-	-	-	-	-	O	-	O	-	-	-	-	O	O	O	-	-	-	-	-	O	-	O	O
WL-DC200	-	-	-	-	-	-	O	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<Cables and Others>																															
VC-100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	O(30/10)	-	-	-	-	
VC-200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	O	-	-	
AVC-DC100	-	-	-	-	-	-	-	-	-	-	O(30)	O(L)	-	O(80)	-	O(70/60)	-	O(400)	-	-	O	O	-	O	O	O(40/20)	O	-	O	O	O
AVC-DC200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	O	-	-	-	-	-	-	
AVC-DC300	O	O (except 420/410)	O (except TX1)	O	O	O	O	O	O	-	O (except 30)	O (L ²)	O	O (95)	O	O (85/75)	-	O (500/450)	O	O	-	-	-	-	-	-	-	-	-	-	-
STV-250N	-	-	O (TX1)	-	-	-	-	-	-	O	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
DTC-100 (J)	-	-	O (TX1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CTC-100 (Ja>ãO)	-	-	O (TX1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IFC-200MC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	O	O	
IFC-200PCS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	O	O	
IFC-200PCU	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	O	-	-	O	O	O	O	O	
IFC-300PCU	-	-	-	-	-	-	-	-	-	-	O (30)	O (L)	-	O (80)	-	O (70/60)	-	O (400)	-	-	O	O	-	O	O	O	-	-	-	-	-
IFC-400PCU	O	O	O	O	O	O	O	O	O	O	O (except 30)	O (L ²)	O	O (95)	O	O (85/75)	-	O (500/450)	O	O	-	-	-	-	-	-	-	-	-	-	-
AD-PC98	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	O	O	
DIF-100	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	-	-	-	
DIF-200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	O	-	-	O	-	-	-	
DIF-B100	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	-	-	-	-	
DIF-B250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	O (except 200)	-	-	O	-	-	-	-	
<All Weather Case/Waterproof Case/Waterproof Case Weight>																															
AW-PS200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	O(200)	-	-	-	O	-	-	
AW-DC10	-	-	-	-	-	-	-	-	-	-	-	O	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
AW-DC20	-	O(400)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
AW-DC30	-	-	O (55/50/40)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
AW-DC40	-	-	-	-	-	-	O	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
AW-DC50	-	-	O(60)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
WP-DC100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	O(300)	-	-	-	-	-	-	
WP-DC200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	O(20/10)	-	-	-	-	-	
WP-DC200s	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	O	-	-	-	-	
WP-DC300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	O	-	-	-	-	-	-	-	-	
WP-DC400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	O (200/100)	-	-	-	-	-	-	-	-	-	-	-	-	-	
WP-DC500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	O(300a)	-	-	-	-	-	
WP-DC600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	O (except 200)	-	-	-	-	-	-	-	
WP-DC700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	O(70/60)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
WP-DC800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	O	-	-	-	-	-	-	-	-	-	-	-	-	
WP-DC900	-	-	-	-	-	-	-	-	-	-	-	-	-	O(80)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
WP-DC10	-	-	-	-	-	-	-	-	-	-	O(30a/30)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WP-DC20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	O	-	-	-	-	-	-	-	-	-	-	
WP-DC30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	O (85/75)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WP-DC40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	O	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
WP-DC50	-	-	-	-	-	-	-	-	-	-	-	-	-	O(95)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
WP-DC60	O (510/520)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
WP-DC70	-	-	-	-	-	-	-	-	-	-	O(600)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WP-DC80	-	-	-	-	-	-	-	-	-	-	O(700)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WP-DC90	-	-	-	-	-	-	-	O (620/610)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

	PS A570 IS A560 A550 A540 A530 A520 A510	PS A460 A450 A420 A410 A400 A310	PS TX1 ID 90/10 WIRELESS/ 80/70 60/55/ 50/40	PS G7	ID 1000 900 IS 800 IS	PS A710 IS A700	ID L ⁴ L ³	PS A640 A630 A620 A610	PS S80	PS S3 IS S2 IS	ID 700 600 30a 30	ID L ² L	PS G6	PS A95 A80	PS S70 S60	PS A85 A75 A70 A60	PS A300 A200 A100	ID 500 450 400	PS S1 IS	PS Pro1	PS PS G5 PS G3	PS S50 S45 S40 S30	ID 320 200a 200	ID 300a 300	PS A40 A30 A20 A10	PS G2	ID IXY DIGI- TAL	PS Pro 90 IS	PS G1	
WP-DC1	-	-	-	-	-	-	-	-	O	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
WP-DC2	O(540)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
WP-DC3	-	-	O(80)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
WP-DC4	-	-	O(70)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
WP-DC5	-	-	-	-	O(800)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
WP-DC6	-	-	-	-	-	O(A710)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
WP-DC7	-	-	-	-	O(1000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
WP-DC8	-	-	-	-	-	-	-	O (640/630)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
WP-DC9	-	-	-	-	O(900)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
WP-DC11	-	-	-	O	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
WP-DC12	O(570)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
WP-DC13	-	-	O(10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
WP-DC14	-	-	O(90)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
WW-DC1	O (except 560/550/ 530)	-	O (80/70/90/ 10)	O	O (except 1000)	O	-	O	O	-	O	-	-	O	O	O	-	O	O	-	-	O	O	O	O	-	-	-	-	-

3-6-2Printer

	ES1	CP730	CP720	CP710 CP510	CP600	CP500 CP400	CP330	CP220	CP-300	CP-200	CP-100	CP-10
<Ink, paper>												
HC-361P	-	-	-	-	-	-	-	-	-	-	-	O
HC-181P	-	-	-	-	-	-	-	-	-	-	-	O
HC-181L	-	-	-	-	-	-	-	-	-	-	-	O
KP-361P	-	O	O	O	O	O	O	O	O	O	O	-
KL-361P	-	O	O	O	O	O	O	O	O	O	O	-
KC-361P	-	O	O	O	O	O	O	O	O	O	O	-
KC-181L	-	O	O	O	O	O	O	O	O	O	O	-
KC-181F	-	O	O	O	O	O	O	O	O	O	O	-
KW-241P	-	O	O	O	O	O	O	O	-	-	-	-
E-P50/E-P100	O	-	-	-	-	-	-	-	-	-	-	-
E-L50/E-L100	O	-	-	-	-	-	-	-	-	-	-	-
E-C25	O	-	-	-	-	-	-	-	-	-	-	-
E-C25L	O	-	-	-	-	-	-	-	-	-	-	-
E-P25BW	O	-	-	-	-	-	-	-	-	-	-	-
<Cable>												
DIF-100	-	-	-	-	-	-	-	-	-	-	O	O
DIF-200	-	-	-	-	-	-	-	-	-	-	O	O
IFC-200PCU	O*	O*	O*	O*	O*	O*	O*	O*	O*	O*	-	-
IFC-300PCU	O*	O*	O*	O*	O*	O*	O*	O*	O*	O*	-	-
IFC-400PCU	O*	O*	O*	O*	O*	O*	O*	O*	O*	O*	-	-
<Power Supply>												
CA-CP100	-	-	-	-	-	-	O	O	O	O	O	O
CBA-CP100	-	-	-	-	-	-	O	-	O	-	O	O
CA-CP200	-	O	O	O	O	O	-	-	-	-	-	-
CA-ES100	O	-	-	-	-	-	-	-	-	-	-	-
NB-CP1L	-	-	-	-	-	-	O	-	O	-	O	-
NB-CP2L	-	O	-	O	O	-	O	-	O	-	O	-
NB-ES1L	O	-	-	-	-	-	-	-	-	-	-	-

*For use with Canon digital cameras and video cameras that support Canon Direct Print or PictBridge.
When connecting via PictBridge with another manufacturer's camera, use the cable specified for that camera.

4 Accessory Specifications

4-1 Waterproof Case

Maximum Depth	40 m (130 ft.) (Meets JIS Protection class 8)
Waterproofing	Seal, O-ring, etc.
Main Materials (employed materials)	Polycarbonate (body, etc.), ABS (controls), clear plate glass (lens window), acrylic (diffusion plate), stainless steel (springs, etc.), EPDM* (seal), etc.
Controls	All buttons and controls • Printing operation with the Print/Share button is not available.
Supplied Accessories	Neck strap, wrist strap, and silicon grease
Remarks	Double-paned glass lens window (with anti-reflection coating on both sides), diffusion plate (detachable)

* A type of synthetic rubber

Waterproof Case WP-DC13 (IXY DIGITAL 10)

• Specifications

Camera Operating Temperatures	0 – 40°C (32 – 104°F)
Dimensions (excluding protrusions)	128.5 x 87.3 x 61.9 mm (5.06 x 3.44 x 2.44 in.)
Volume	Approx. 420.6 cm ³ (14.2 fl oz. (US))* ¹
Weight	Approx. 280 g (9.88 oz.) (Waterproof Case only)* ¹ Approx. 425 g (15.0 oz.) (Waterproof Case* ¹ and camera body* ²)
Number of Separately Sold Waterproof Case Weights (WW-DC1) Recommended for Mounting	0 weight

*¹Including diffusion plate

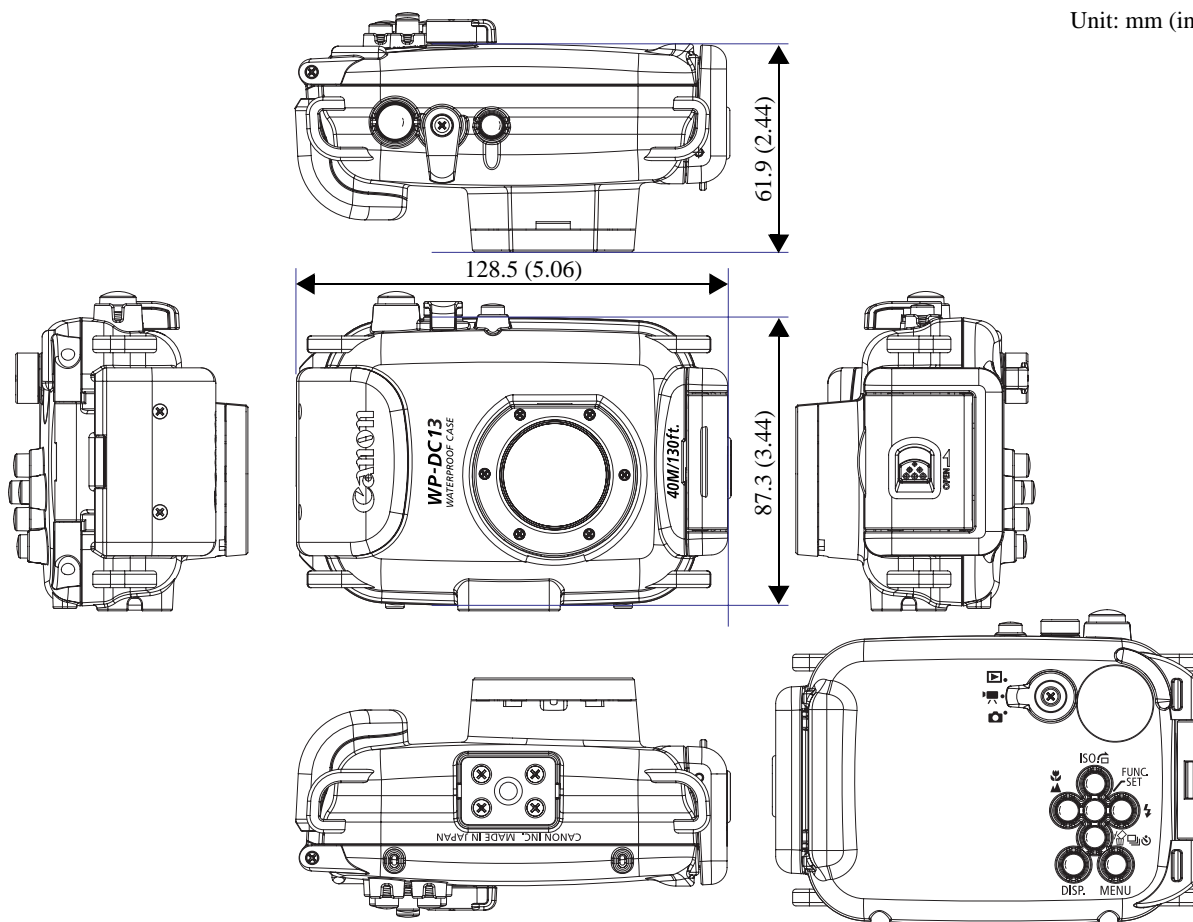
*²Including battery and memory card

• Exterior Photos



• Exterior

Unit: mm (inch)



Waterproof Case WP-DC14 (IXY DIGITAL 90)

• Specifications

Camera Operating Temperatures	0 – 40°C (32 – 104°F)
Dimensions (excluding protrusions)	129.1 x 89.2 x 60.7 mm (5.08 x 3.51 x 2.39 in.)
Volume	Approx. 425 cm ³ (14.4 fl oz. (US))* ¹
Weight	Approx. 280 g (9.88 oz.) (Waterproof Case only)* ¹ Approx. 430 g (15.2 oz.) (Waterproof Case* ¹ and camera body* ²)
Number of Separately Sold Waterproof Case Weights (WW-DC1) Recommended for Mounting	0 weight

*¹Including diffusion plate

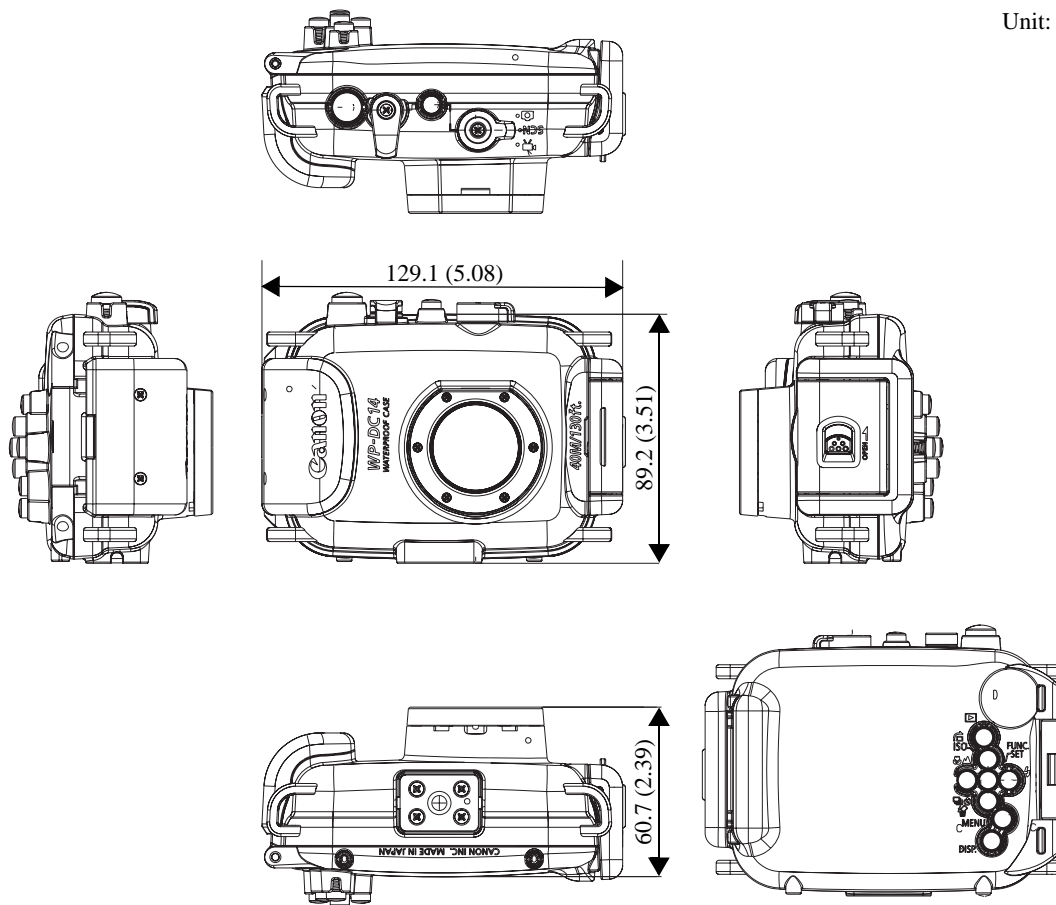
*²Including battery and memory card

• Exterior Photos



• Exterior

Unit: mm (inch)



4-2 Main Unchanged Accessories

4-2-1 Battery Pack NB-4L

Type	Rechargeable lithium-ion battery
Nominal Voltage	3.7 V DC
Nominal Capacity	760 mAh
Battery Life (Charge Cycles)	Approx. 300 times
Operating Temperatures	0 – 40°C (32 – 104°F)
Dimensions	35.4 x 40.3 x 5.9 mm (1.39 x 1.59 x 0.23 in.)
Weight	Approx. 17 g (0.60 oz.)

4-2-2 Battery Charger

CB-2LV (Japan/Americas)/CB-2LVE (Europe/Asia/Oceania)

	CB-2LV	CB-2LVE
Rated Input	100 – 240 V AC (50/60 Hz) 0.1 A (100 V) – 0.06 A (240 V)	
Rated Output	4.2 V DC, 0.65 A	
Charging Time	Approx. 1 hr. 30 min. (a case of NB-4L)	
Charge Indicator	Charging: Orange, Full charged: Green	
Operating Temperatures	0 – 40°C (32 – 104°F)	
Dimensions	53.0 x 86.0 x 19.5 mm (2.09 x 3.39 x 0.77 in.)	
Weight	Approx. 60 g (2.12 oz.)	Approx. 55 g (1.94 oz.) (excluding power cord)

4-2-3 AC Adapter Kit

ACK-DC10

• Compact Power Adapter CA-DC10

Rated Input	100 – 240 V AC (50/60 Hz), 0.18 A 16 VA (100 V) – 26 VA (240 V)
Rated Output	4.3 V DC, 1.5 A
Operating Temperatures	0 – 40°C (32 – 104°F)
Dimensions	42.6 x 104.4 x 31.4 mm (1.68 x 4.11 x 1.24 in.)
Weight	Approx. 180 g (6.35 oz.) (excluding power cord)

• DC Coupler DR-10

TECHNICAL DESCRIPTION

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1. Functions of each unit

1.1 MAIN P.C.B. ASS'Y

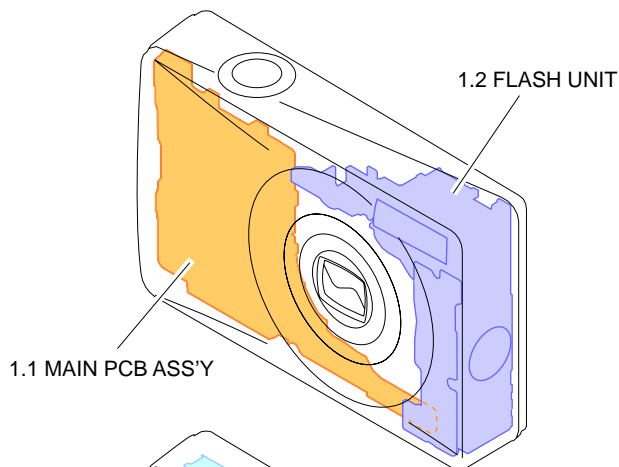
- 1) CCD control.
- 2) CCD output signal processing.
- 3) Image processing (DIGIC III).
- 4) Recording to the memory card and playing back from it.
- 5) System control (DIGIC III).
- 6) LCD control.
- 7) Power supply driving.
- 8) Battery charge control.
- 9) Audio signal processing.

1.2 FLASH UNIT

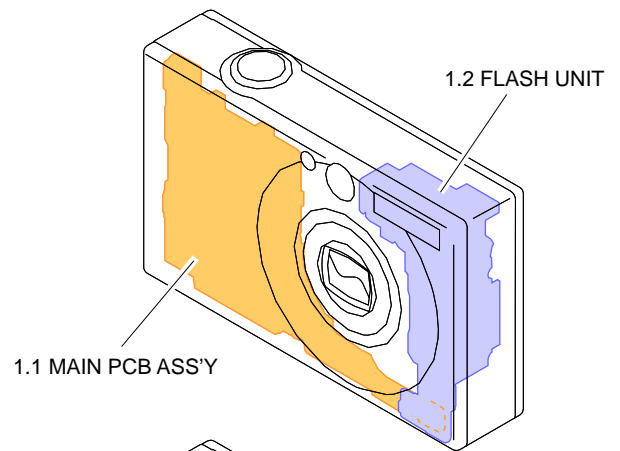
- 1) Flash driving and charging.
- 2) Speaker.

1.3 OPERATION ASS'Y

- 1) Rear switches.
- 2) Signal transfer from the MAIN P.C.B. to the LCD UNIT.
- 3) Lens unit control.
- 4) Shutter, power switch, and battery cover opening/closing detection switch.



PowerShot SD750 / DIGITAL IXUS 75



PowerShot SD1000 / DIGITAL IXUS 70

2. Troubleshooting

2.1 When an Error Code is Displayed

[Remedy]

- Check for any abnormalities in the mounting of probable faulty parts or connector connections referring to the table below.
- Try replacing probable faulty parts referring to the table below.

[NOTE]

- Error codes are displayed on the LCD Monitor.
- Adjustments must be performed after the part has been replaced. For details, see the "Adjustments" chapter.

Error Code	Name	Occurrence Conditions	Cause and Probable Faulty Part
E01	AE TIME OUT	AE processing does not end within the specified time.	MAIN PCB ASS'Y
E02	AF TIME OUT	AF processing does not end within the specified time.	MAIN PCB ASS'Y
			OPTICAL UNIT
		The focus lens is not driven.	MAIN PCB ASS'Y
E03	EF TIME OUT	Auto Flash Control does not end within the specified time.	MAIN PCB ASS'Y
			OPTICAL UNIT
E04	AWB TIME OUT	AWB processing does not end within the specified time.	MAIN PCB ASS'Y
E09	JPEG DMA TIME OUT	JPEG processing does not end within the specified time.	MAIN PCB ASS'Y
E10	JPEG IC ERROR	JPEG compression processing does not end within the specified time.	MAIN PCB ASS'Y
E14	UNKNOWN	When an error of unknown cause occurs.	NKNOWN
E16	IMAGING TIME OUT	When communication between CPU and peripheral IC is not completed within the specified time during recording using EVF or after completion of recording.	MAIN PCB ASS'Y
E18	ZOOM LENS ERROR	Movement of the lens barrel does not end within the specified time.	MAIN PCB ASS'Y
			OPTICAL UNIT
E23	MEMORY CARD NO SPACE	When the Memory Card becomes full during writing of photographed images to Memory Card, writing is repeatedly performed with the JPEG compression ratio successively increased to reduce the size of the image file until it can be successfully written to Memory Card. This error occurs when writing of the JPEG image file fails after 10 times.	MAIN PCB ASS'Y
E24	POWER ON ERROR	The power of the imaging circuit on the MAIN PCB ASS'Y is not detected.	MAIN PCB ASS'Y
			DC/DC PCB ASS'Y
E26	CAPTURE TIME OUT	Writing of the photographed image to SDRAM does not end within the specified time.	MAIN PCB ASS'Y
E27	MEMORY WRITE TIME OVER	Data from the buffer was not written to the Memory Card within the specified time.	MEMORY CARD
E52	QUICK REVIEW ERROR	Review of the photographed image failed.	MAIN PCB ASS'Y

2.2 When a Problem Occurs

[Remedy]

- Check for any abnormalities in the mounting of probable faulty parts or connector connections referring to the table below.
- Try replacing probable faulty parts referring to the table below.

[NOTE]

- Adjustments must be performed after the part has been replaced. For details, see the "Adjustments" chapter.

Problem (when an error code is not displayed)	Defect position	Reference
The power of the camera does not turn on.	MAIN PCB ASS'Y/ BATTERY COVER	BATTERY/CARD SLOT OPEN DETECT SW cannot be turned on.
		BATTERY COVER deformation.
	OPERATION FPC ASS'Y	POWER SW cannot be turned on.
		POWER BUTTON cannot be turned on.
	FUSE (MAIN PCB ASS'Y)	FU601
The image is not displayed on the LCD Monitor.	MAIN PCB ASS'Y	
	FLASH UNIT	
	LCD PANEL UNIT	
The photographed image is abnormal.	OPTICAL UNIT	
	MAIN PCB ASS'Y	
The zoom does not function.	OPTICAL UNIT	
	MAIN PCB ASS'Y	
	OPERATION FPC ASS'Y	
The Built-in Flash does not work.	FLASH UNIT	
	MAIN PCB ASS'Y	
Video output is abnormal.	MAIN PCB ASS'Y	
Communications with the personal computer is not possible.	MAIN PCB ASS'Y	
	USB Connector	
The Memory card is not recognized.	MAIN PCB ASS'Y	
	Memory CARD	
Buttons/The Mode Dial do not work.	OPERATION FPC ASS'Y	
	MAIN PCB ASS'Y	

2.3 Simplified Troubleshooting

[Remedy]

- Check for any abnormalities in the mounting of probable faulty parts or connector connections referring to the table below.
- Try replacing probable faulty parts referring to the table below.

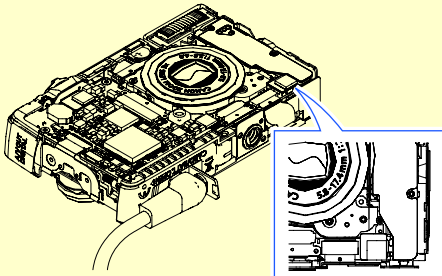
[NOTE]

- Adjustments must be performed after parts are replaced. For details, see the "Adjustments" chapter.

2.3.1 If the Power cannot be Turned On

	Procedure/Check point	Conceivable cause
1	Remove the front cover and the rear cover.	
2	Check whether the BATTERY COVER open/close detection switch on the MAIN PCB ASS'Y is broken.	

2.3.2 If the Flash does not Work

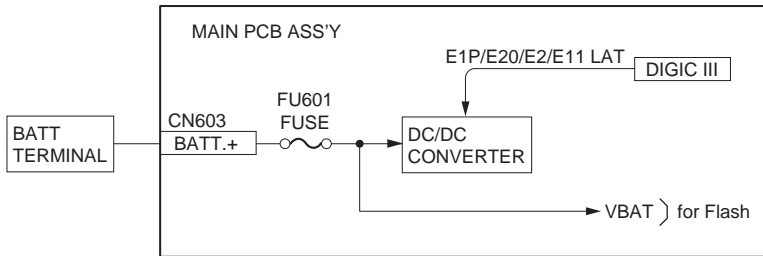
	Procedure/Check point	Conceivable cause
1	Remove the front cover and the rear cover.	
2	Reinsert the flexible board that connects MAIN PCB ASS'Y and FLASH UNIT. 	If the flash operates properly after reinsertion, the flexible board connection is defective.

2.3.3 If the LCD Display is Abnormal

	Procedure/Check point	Conceivable cause
1	Turn the power on.	
2	Enter the shooting mode (with LCD display ON), and check the display on the LCD.	<p>When the entire display is white:</p> <ul style="list-style-type: none"> • LCD PANEL is defective (flexible board is broken, etc.). • Defective connection between the flexible board of the LCD PANEL and the connector of the PCB. • MAIN PCB is defective. <p>When the display is faint:</p> <ul style="list-style-type: none"> • BACK LIGHT UNIT is defective (flexible board is broken, etc.). <p>When no image is displayed although the menu screen is displayed:</p> <ul style="list-style-type: none"> • OPTICAL UNIT is defective (the shutter of the lens block is not open, etc.).

3. FUSE

PowerShot SD750/1000 and DIGITAL IXUS 75/70



1 fuse is used for this product.

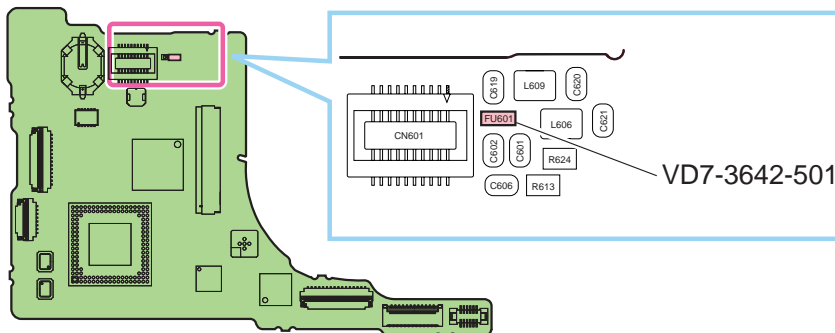
3.1 List of Fuses Used

PowerShot SD750/1000 and DIGITAL IXUS 75/70

FUSE	PARTS NO.	Mounted PCB	NOTE
FU601	VD7-3642-501	MAIN PCB ASS'Y	for BATTERY

3.2 Positions of Fuses Used

PowerShot SD750/1000 and DIGITAL IXUS 75/70



MAIN P.C.B. ASS'Y
(COMPONENT SIDE)

DISASSEMBLY

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For CA, USA only

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

See www.dtsc.ca.gov/hazardouswaste/perchlorate/ for details.



廢電池請回收

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1. Before Starting the Repair Work

Be sure to read the following precautions before starting the repair work.

1.1 Precautions on Flash High Voltage Circuit

- After the FRONT COVER UNIT is removed, be sure to discharge the main capacitor.
(Discharging resistor: 1 k Ω , approx. 5 W.)
- First contact the GND \ominus terminal of the main capacitor with the discharging resistor.
Then contact the positive \oplus terminal of the main capacitor.

CAUTION:

Be careful of electric shock because the circuit is a high voltage circuit.

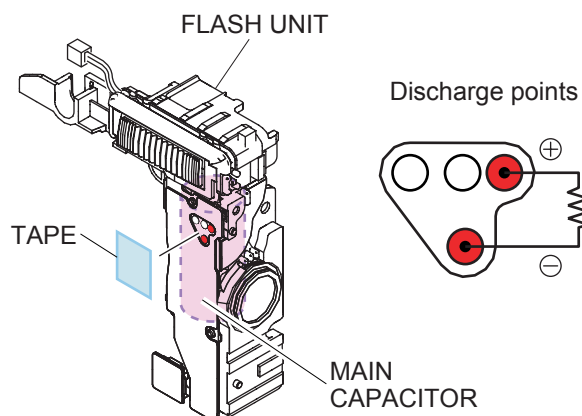


Fig. 1 Precautions on Flash High Voltage Circuit

1.2 List of Tools

The following tools are used for the re-assembling during service.

List of tools

New	Name of tools	Part No.	Remarks
	Screwdriver (Local Purchase)		
	Tweezers (Local Purchase)		

1.3 List of Supplies

The following supplies are used for the re-assembling during service.

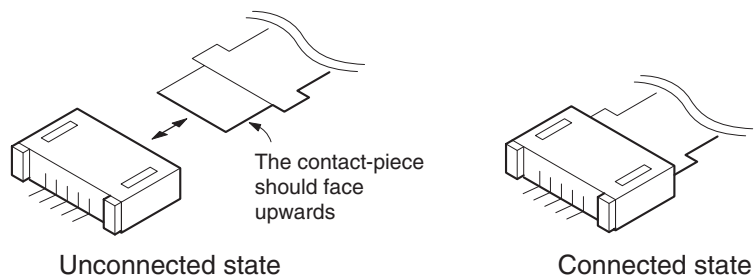
List of supplies

New	Name of supplies	Part No.	Remarks
	ADHESIVE TAPE SONY T4000	CY4-6012-000	Double-sided tape (0.15mm \times 6mm \times 50m)
	ADHESIVE TAPE 3M No.56	CY4-6018-000	Electric insulation tape
	BOND, DIABOND NO.1663G BLACK	CY9-8129-000	200ml
*	TAPE, DOUBLE SIDED (NO.531)	CY9-4505-000	Double-sided tape (0.06mm \times 10mm \times 5m)

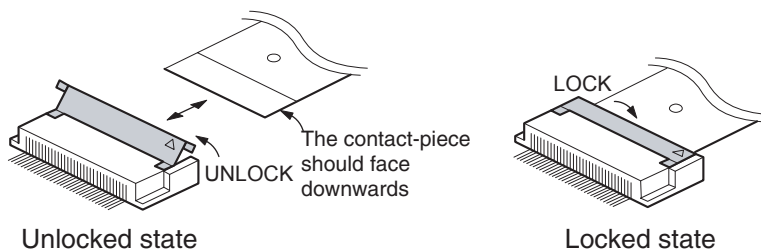
1.4 Connectors for FPC Board

This product uses two types of connectors for the FPC board.

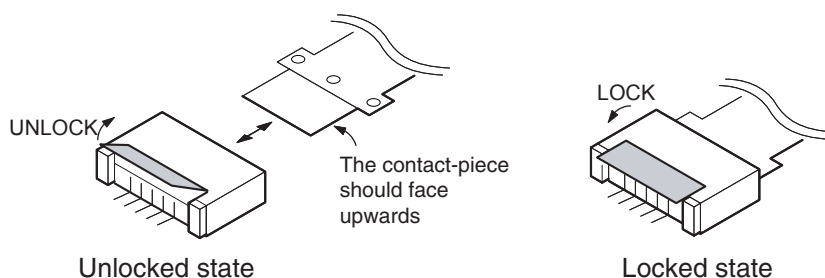
1 Type A



2 Type B



3 Type C



4 Type D

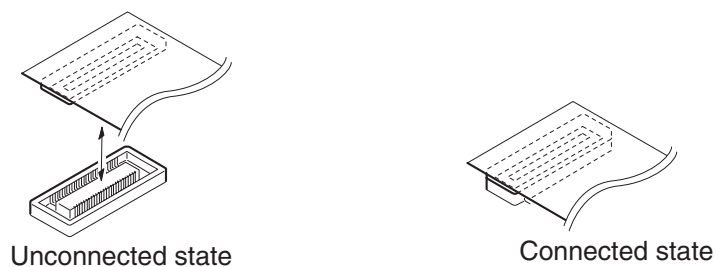


Fig. 2 Connectors for FPC board

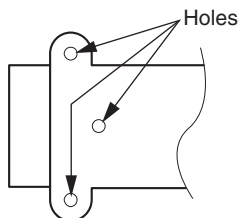


Fig. 3 Holes for removal

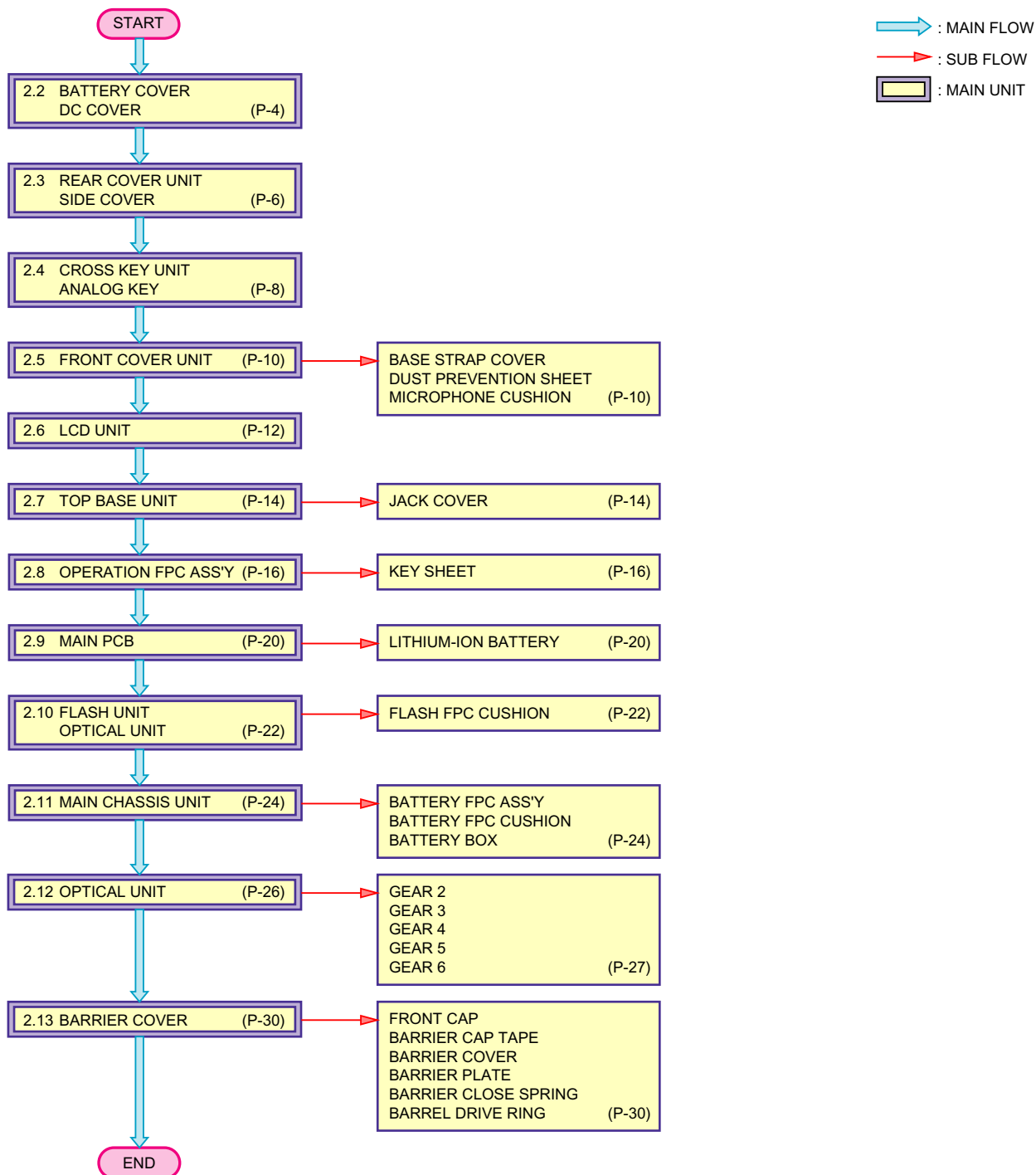
CAUTION:

1. For the connectors of Type B, make sure to set them to the unlocked state before removing and inserting the FPC board. After the FPC board is inserted, set them to the locked state.
2. The FPC board is equipped with holes as shown. Use them for removal and insertion by inserting the tweezers into them as required.

2. Disassembling / Reassembling

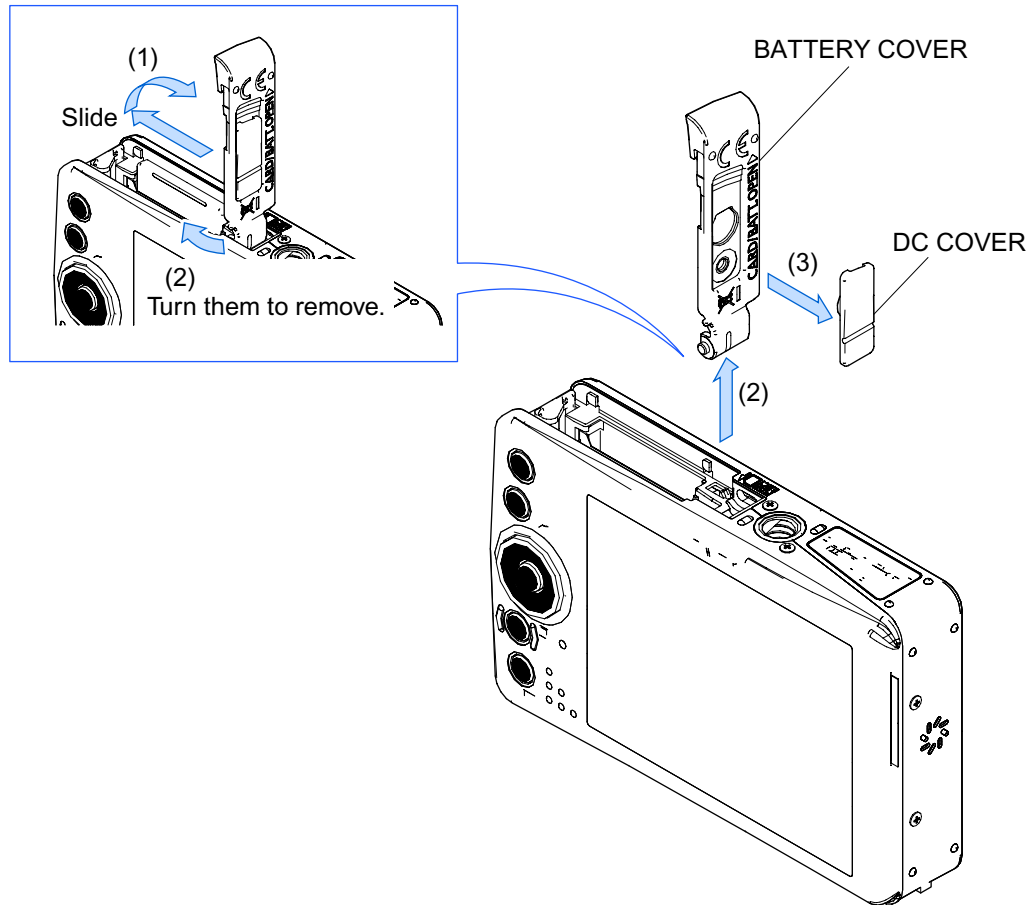
2.1 Procedure

- (1) The following flowchart shows the disassembly procedure for DIGITAL IXUS 75/PowerShot SD750 DIGITAL ELPH.
- (2) Reverse the disassembly procedure to reassemble them. *The pages to refer to are shown in parentheses ().



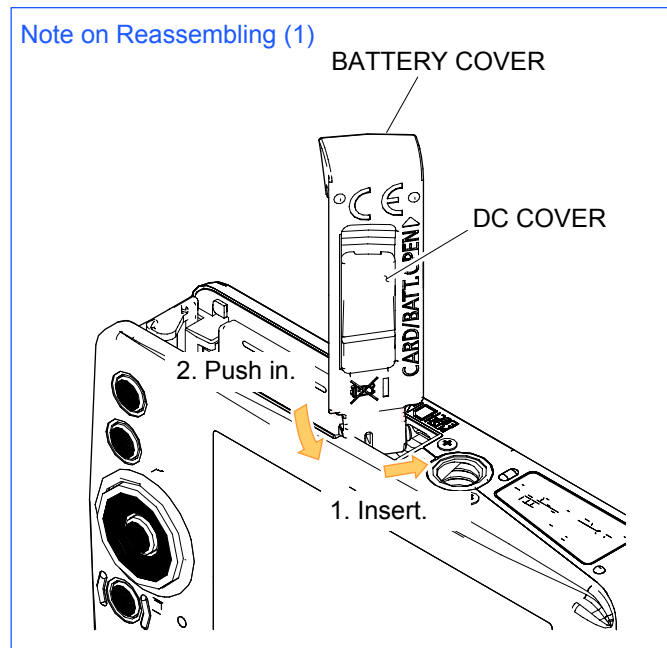
2.2 Disassembly of BATTERY COVER/DC COVER

- (1) Open the BATTERY COVER.
- (2) Detach the BATTERY COVER and DC COVER in subassembly form by turning them in the direction of the arrows.
- (3) Detach the DC COVER from the BATTERY COVER.



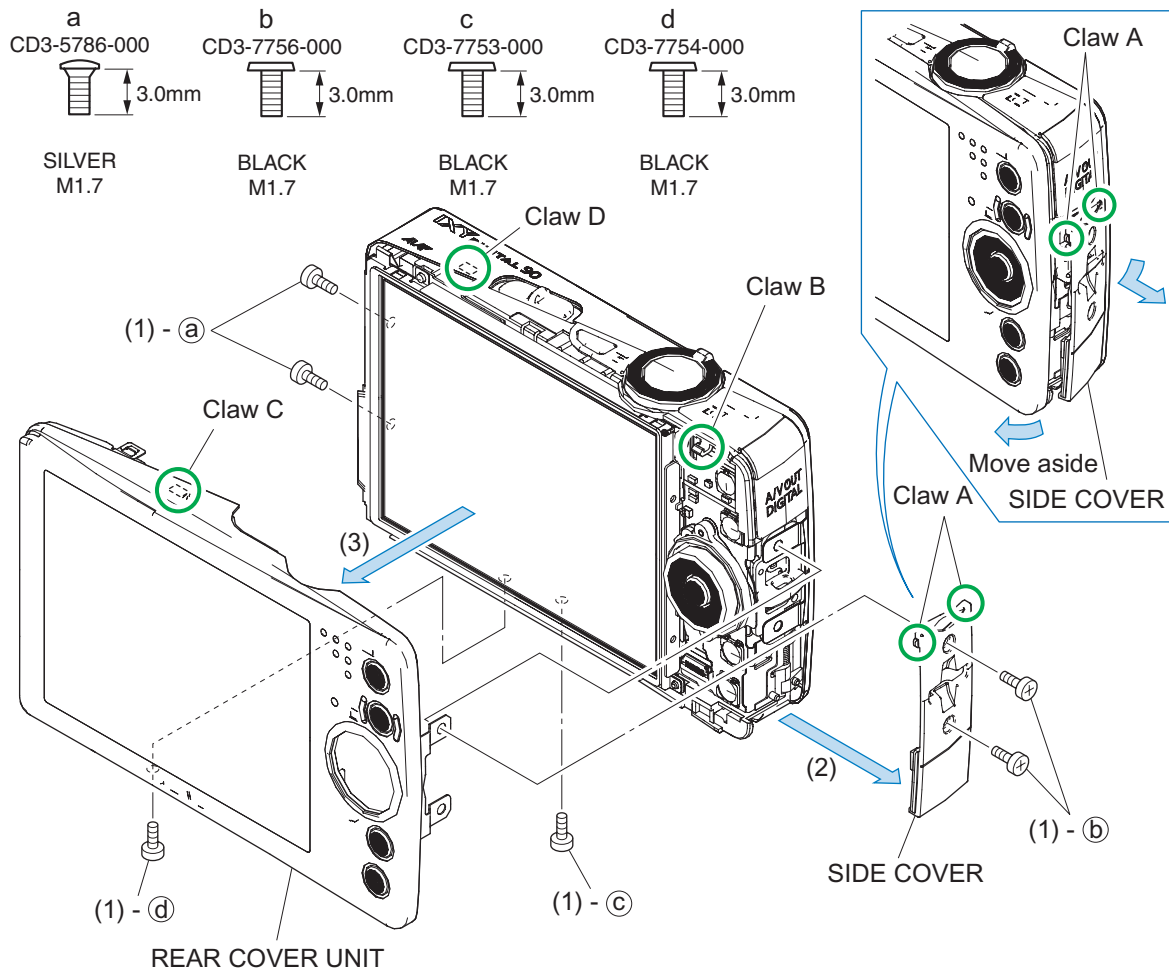
<Note on Reassembling>

(1) Attach the BATTERY COVER and DC COVER as shown in the figure below.



2.3 Disassembly of REAR COVER UNIT/SIDE COVER

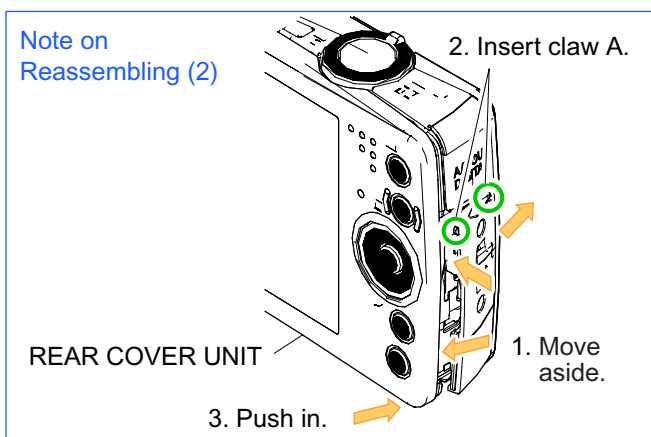
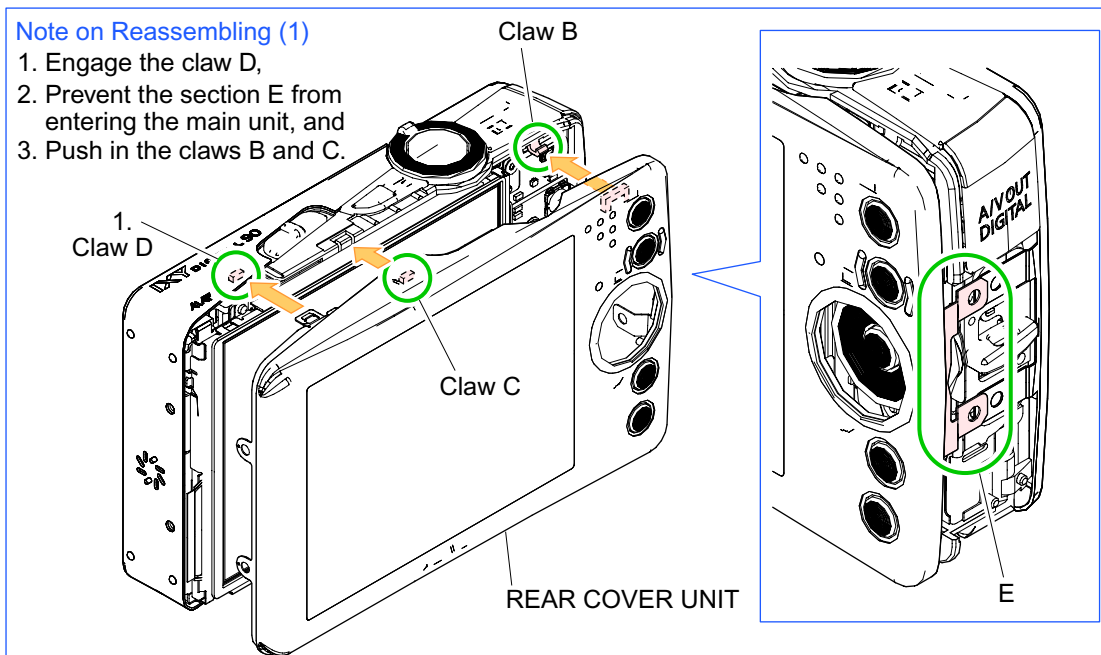
- (1) Remove six screws (a × 2, b × 2, c × 1, d × 1).
- (2) Slightly set the REAR COVER UNIT away from the main unit, disengage two claws A and detach the SIDE COVER.
- (3) Disengage the claws B, C, D, and then detach the REAR COVER UNIT.



<Note on Reassembling>

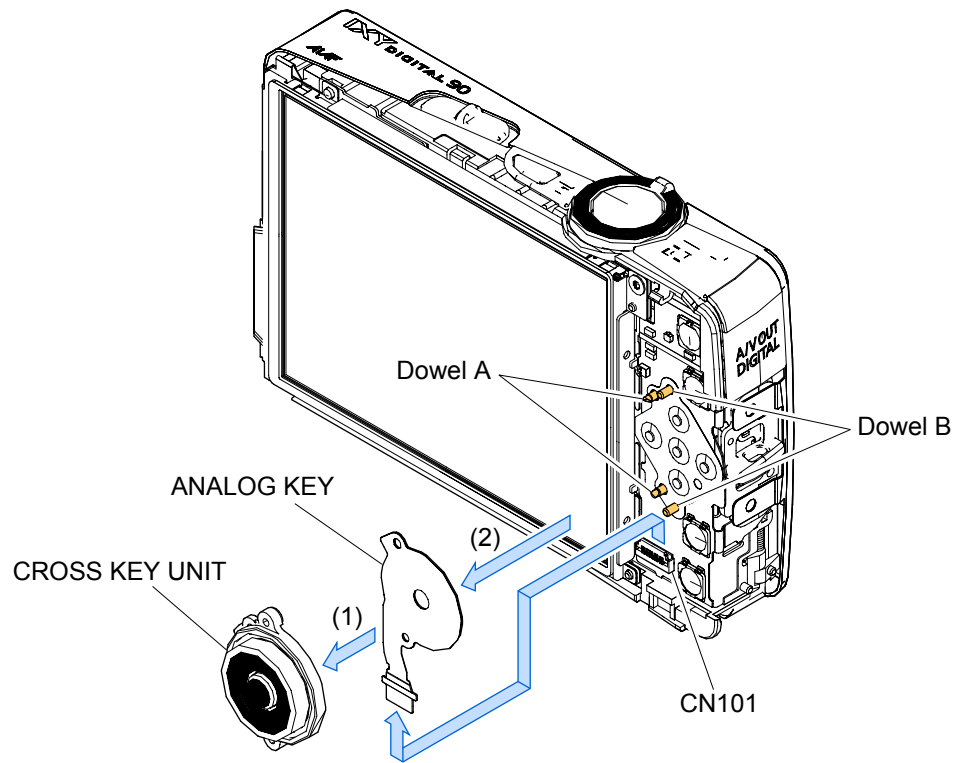
(1) Attach the REAR COVER UNIT as shown in the figure below.

(2) Attach the SIDE COVER as shown in the figure below.



2.4 Disassembly of CROSS KEY UNIT/ANALOG KEY

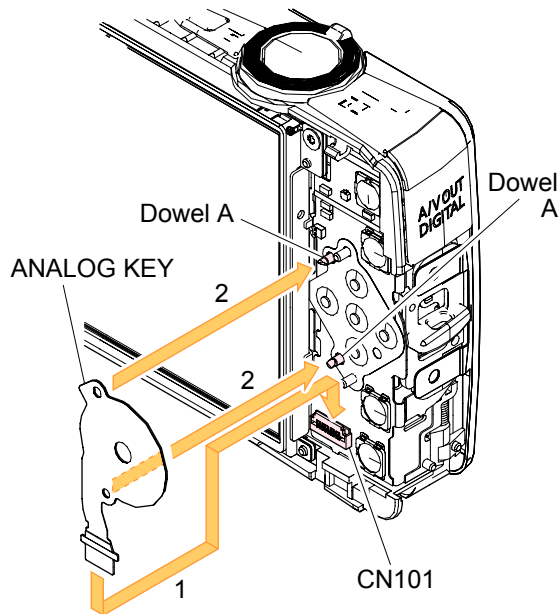
- (1) Disengage the dowels A \times 2 and B \times 2, and then detach the CROSS KEY UNIT.
- (2) Disengage the CN101 and two dowels B, and then detach the ANALOG KEY.



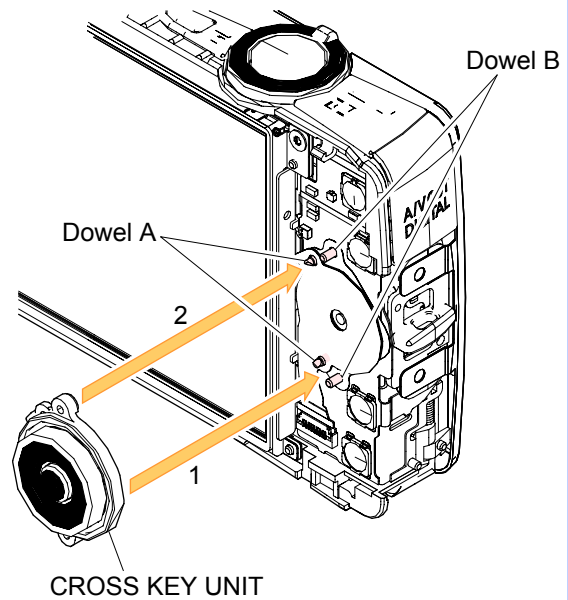
<Note on Reassembling>

- (1) For the ANALOG KEY, insert the FPC section into the CN101, engage with the dowel A and lock the CN101.
- (2) Engage the CROSS KEY UNIT with the lower dowels A and B first, then with the upper dowels A and B.

Note on Reassembling (1)

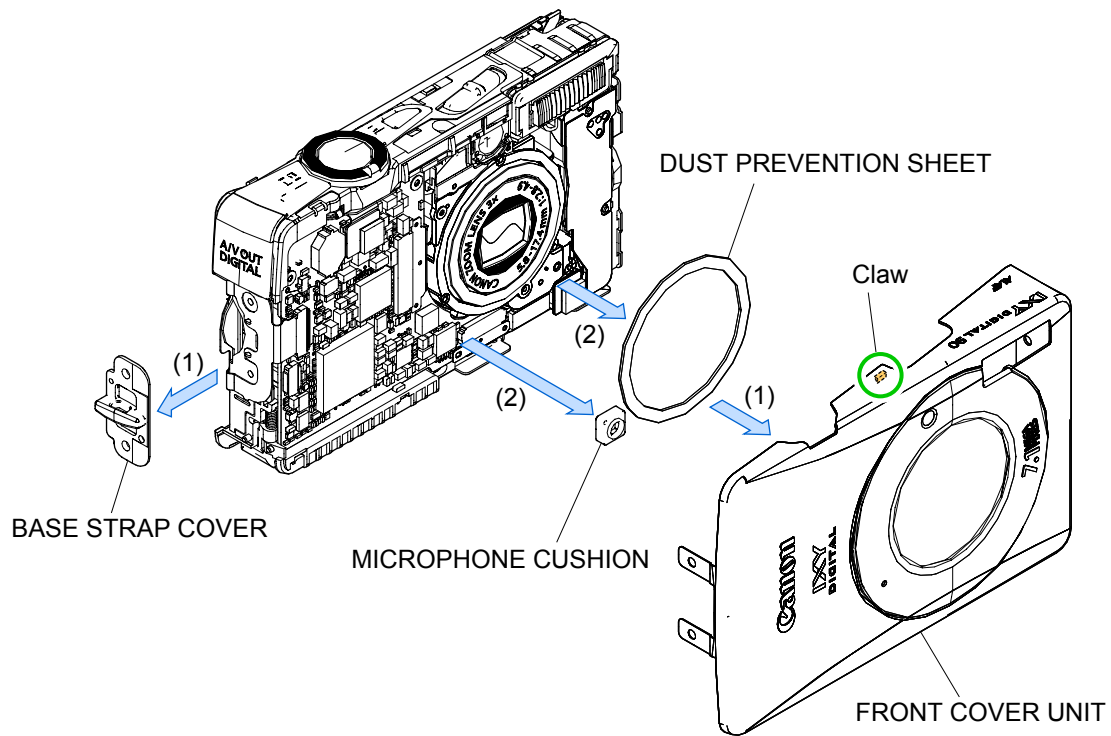


Note on Reassembling (2)



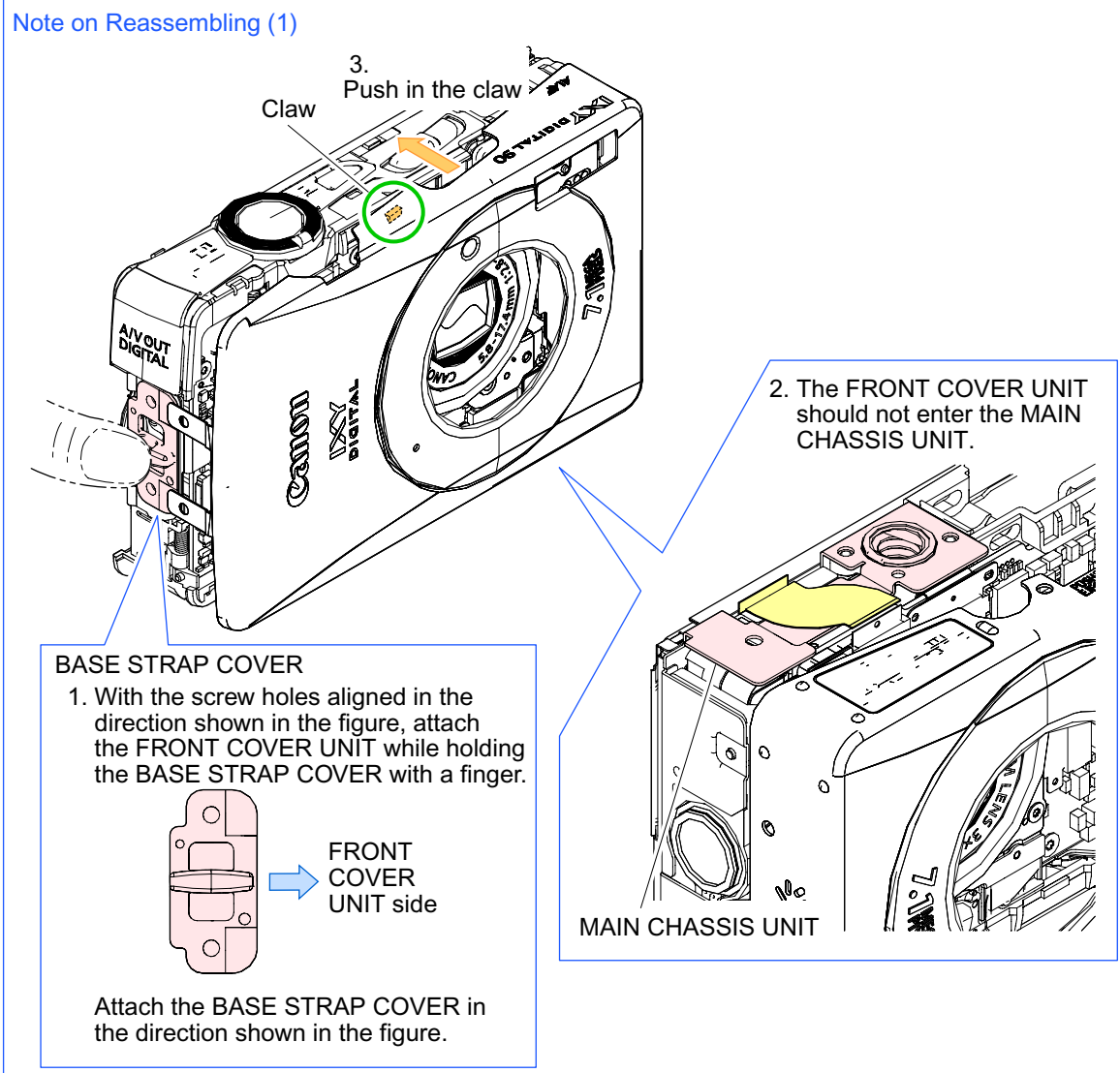
2.5 Disassembly of FRONT COVER UNIT

- (1) Disengage the claw, and then detach the FRONT COVER UNIT and BASE STRAP COVER.
- (2) Detach the DUST PREVENTION SHEET and MICROPHONE CUSHION.



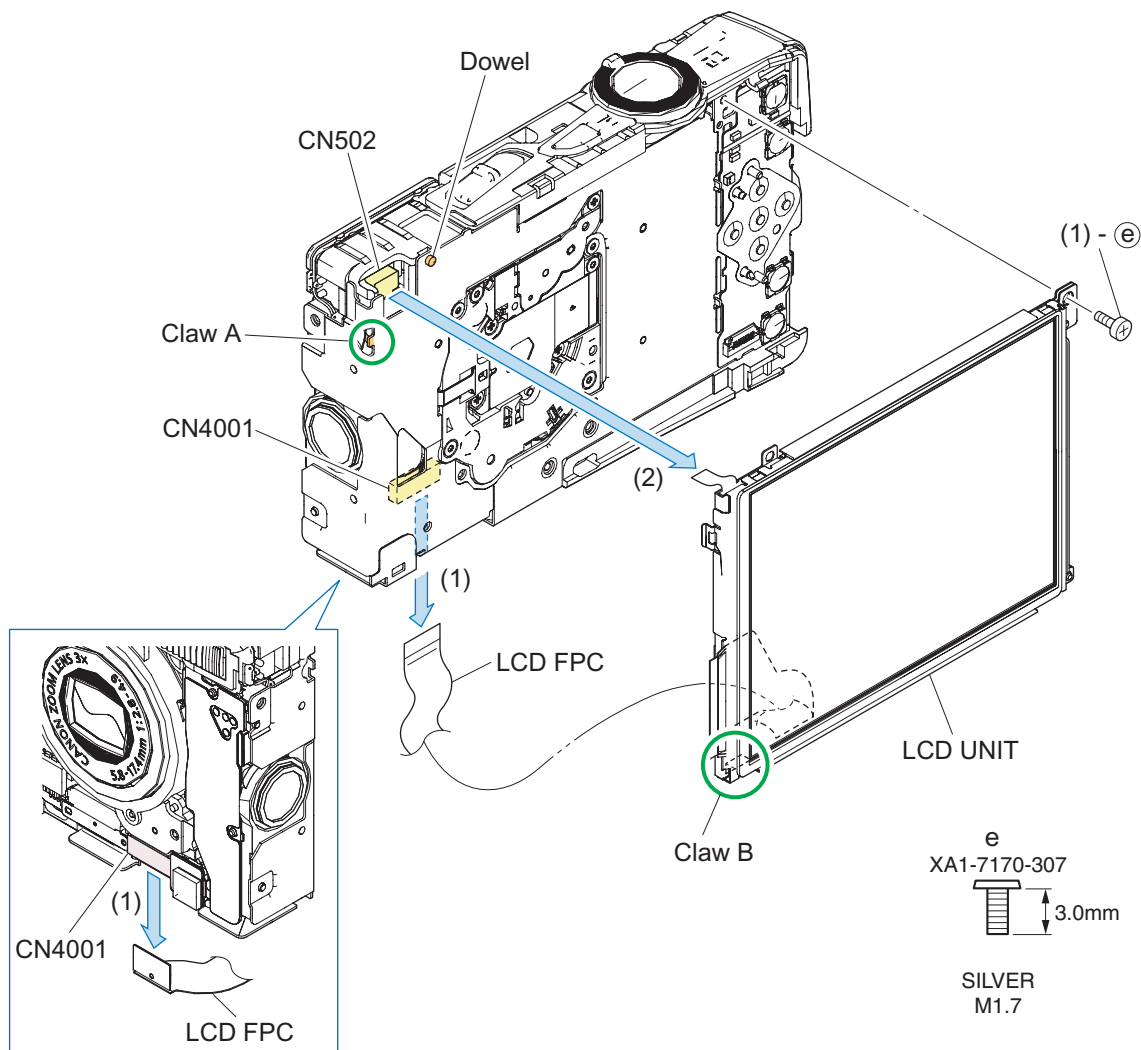
<Note on Reassembling>

(1) Attach the BASE STRAP COVER and FRONT COVER UNIT as shown in the figure below.



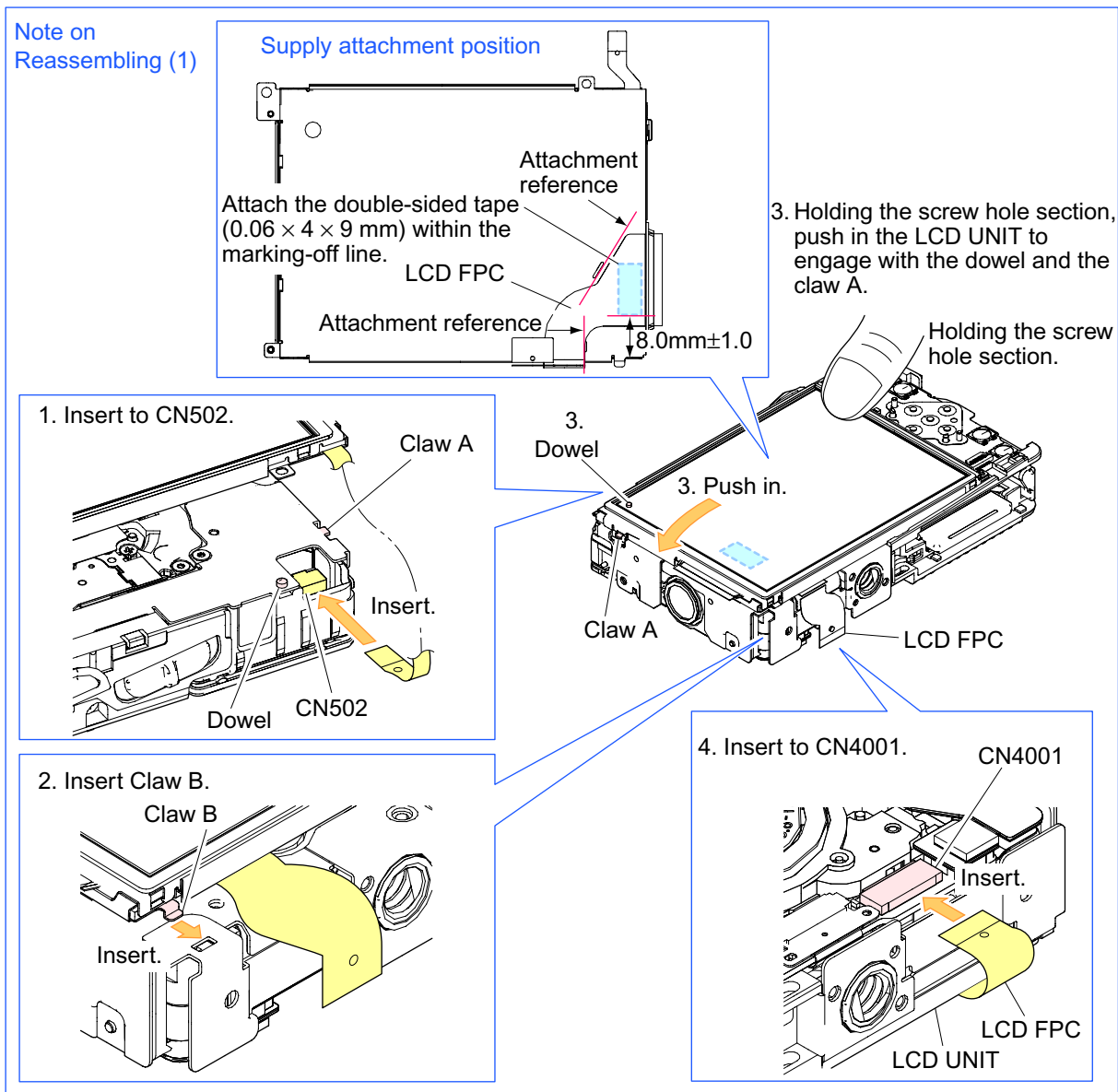
2.6 Disassembly of LCD UNIT

- (1) Remove one screw (e × 1), disconnect the CN4001, disengage the dowel and claws A and B, and slightly set the LCD UNIT away from the main unit.
- (2) Disconnect the CN502 and then detach the LCD UNIT.



<Note on Reassembling>

(1) Attach the DOUBLE-SIDED TAPE ($0.06 \times 4 \times 9\text{mm}$) and LCD FPC at the respective positions shown in the figure below. Attach the LCD UNIT as shown in the figure below.

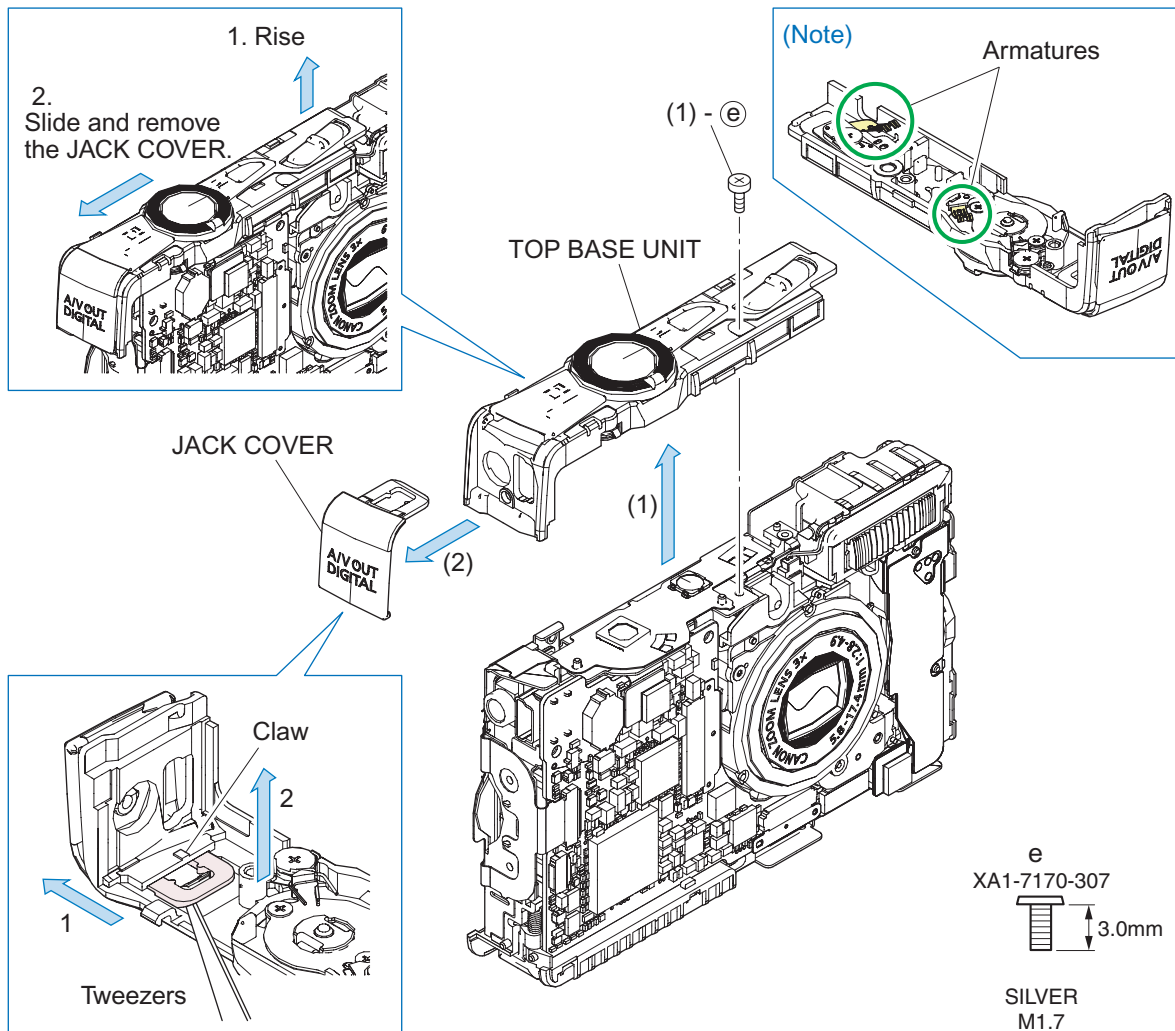


2.7 Disassembly of TOP BASE UNIT

(1) Remove one screw (e × 1), and then detach the TOP BASE UNIT and JACK COVER in a subassembly form.

Note: When detaching/attaching the TOP BASE UNIT, be careful not to deform or damage the armatures.

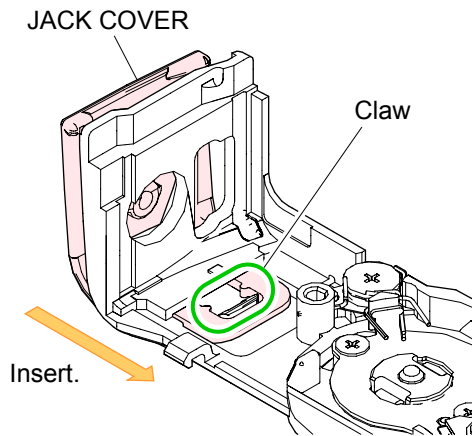
(2) Detach the JACK COVER from the TOP BASE UNIT.



<Note on Reassembling>

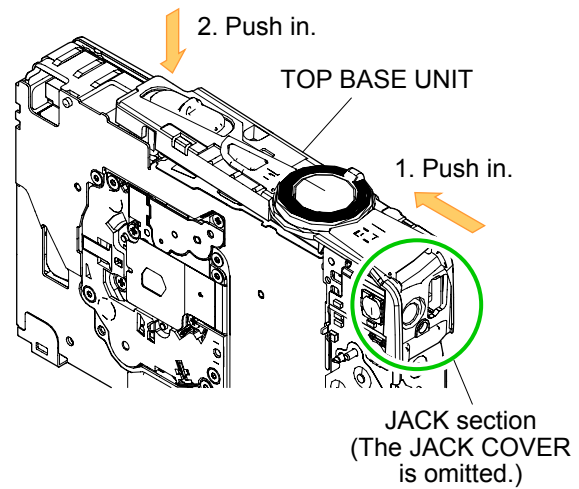
- (1) Attach the JACK COVER as shown in the figure below.
- (2) Attach the TOP BASE UNIT as shown in the figure below.

Note on Reassembling (1)



Note on Reassembling (2)

Push in the JACK section first, then the TOP.



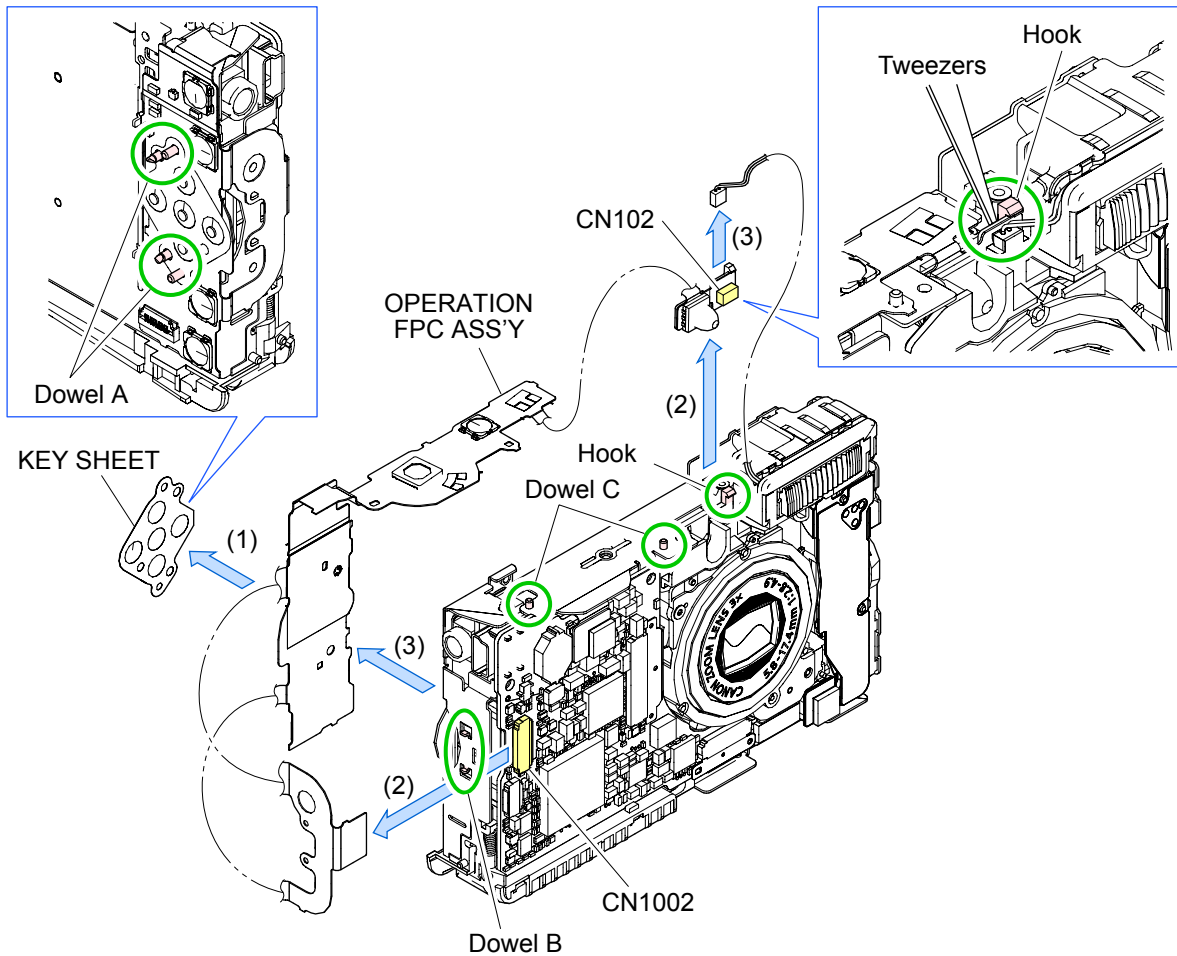
2.8 Disassembly of OPERATION FPC ASS'Y

(1) Disengage the dowel A, and then detach the KEY SHEET.

Note: Reuse of the KEY SHEET is not allowed.

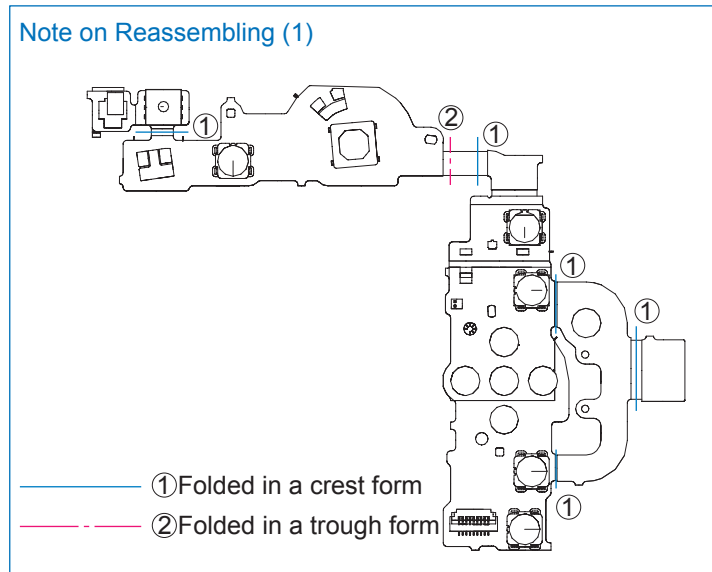
(2) Disconnect the CN1002, disengage the dowels B, A and C and the hook, then slightly set the OPERATION FPC ASS'Y away from the main unit.

(3) Disconnect the CN102, and then detach the OPERATION FPC ASS'Y.

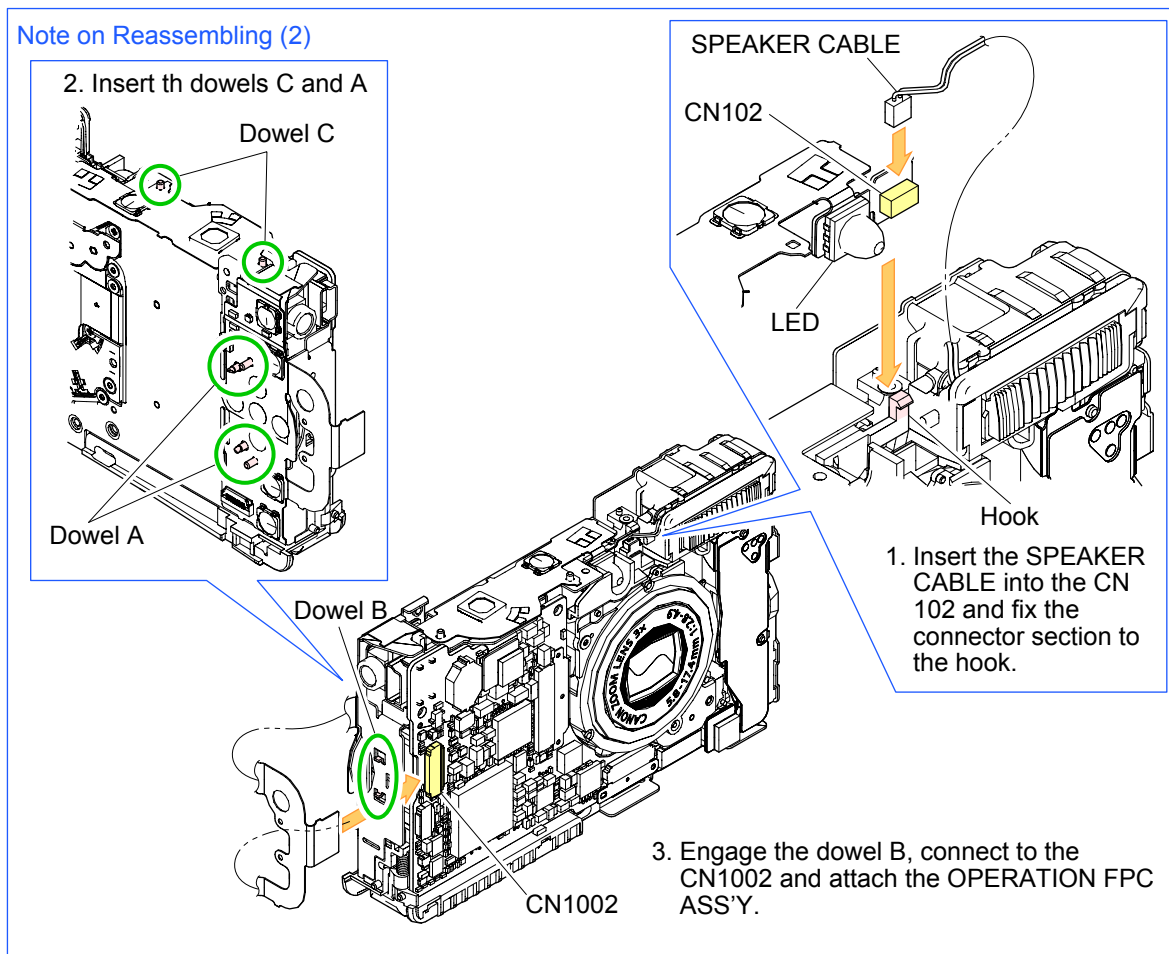


<Note on Reassembling>

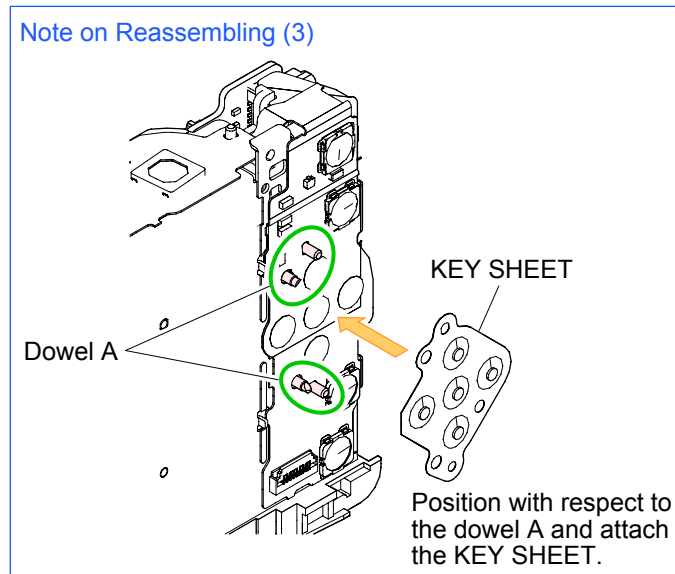
(1) Make the service part OPERATION FPC ASS'Y remain folded at the positions marked in the figure.



(2) Attach the OPERATION FPC ASS'Y as shown in the figure below.



(3) Attach the KEY SHEET at the positions shown in the figure below.

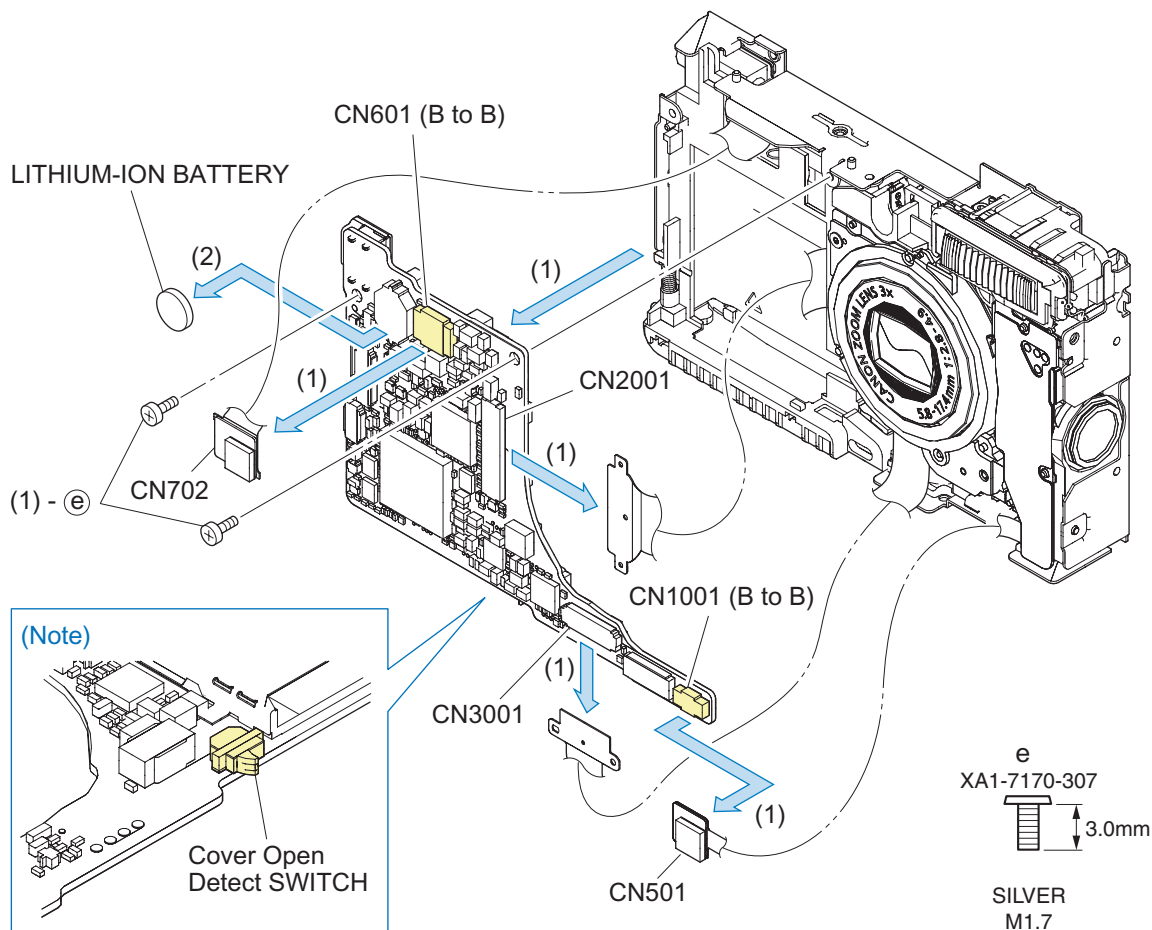


2.9 Disassembly of MAIN PCB

- (1) Remove two screws (e × 2), and disconnect the CN601 (B to B), CN2001, CN3001, and CN1001 (B to B), and then detach the MAIN PCB.

Note: Be careful not to damage the Cover Open Detect switch.

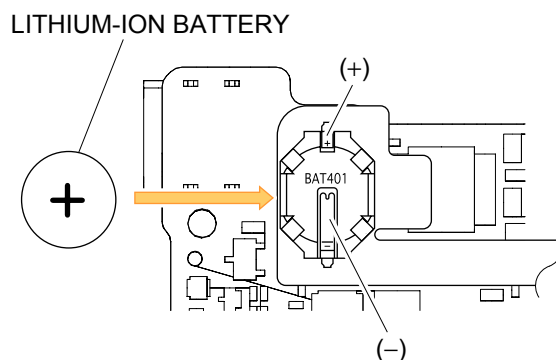
- (2) Detach the LITHIUM-ION BATTERY from the MAIN PCB.



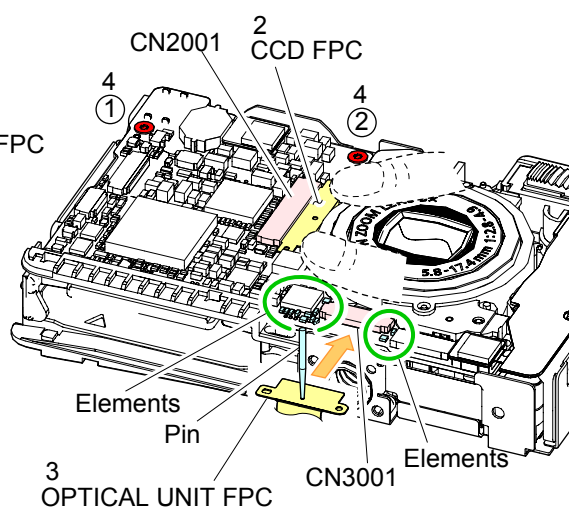
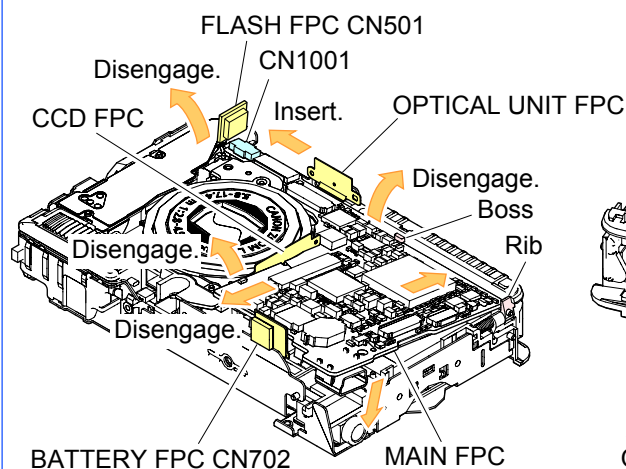
<Note on Reassembling>

- (1) Attach the LITHIUM-ION BATTERY in the direction shown in the figure below.
- (2) Attach the MAIN PCB as shown in the figure below.

Note on Reassembling (1)



Note on Reassembling (2)

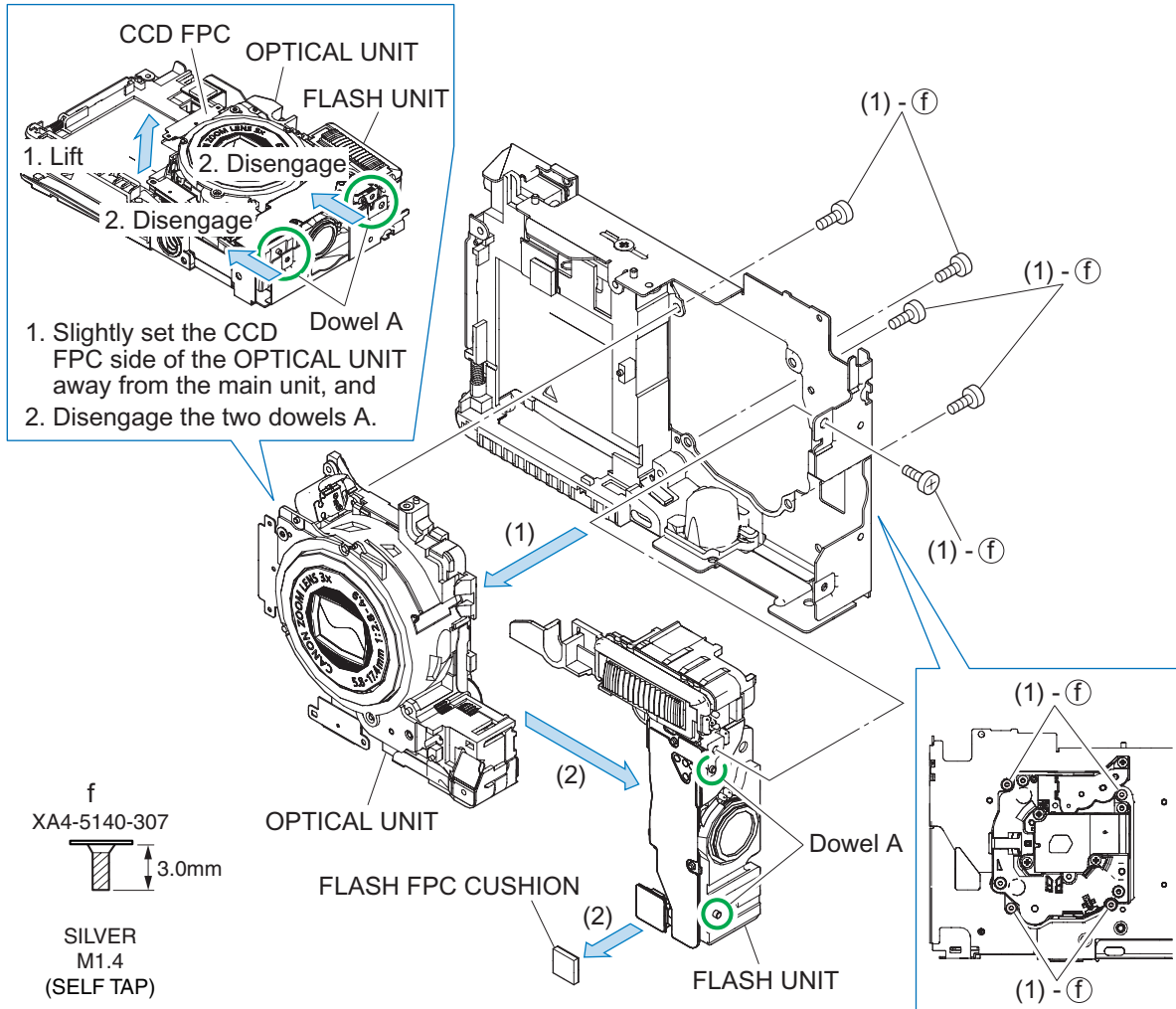


1. Disengage the FLASH FPC, OPTICAL UNIT FPC, CCD FPC and BATTERY FPC, and insert the CN1001 section into the MAIN PCB. Position with respect to the boss and the rib and attach the MAIN PCB.

2. Insert the CCD FPC into the CN2001 with both hands.
3. Using the pin for its center hole, insert the OPTICAL UNIT FPC. (For preventing the elements on both ends from being damaged)
4. Fix the screw ① and ② in this order.

2.10 Separation of FLASH UNIT/OPTICAL UNIT

- (1) Remove five screws (f×5), disengage two dowels A, and then detach the FLASH UNIT and OPTICAL UNIT in a subassembly form.
- (2) Separate the FLASH UNIT from the OPTICAL UNIT, and then detach the FLASH FPC CUSHION.

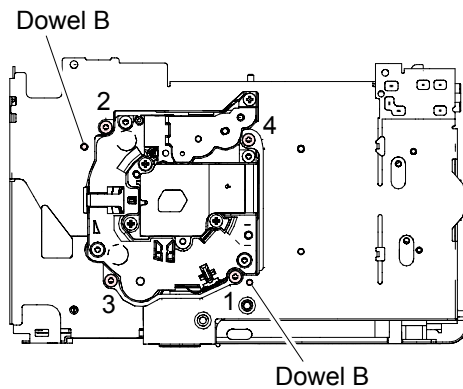


<Note on Reassembling>

(1) Attach the OPTICAL UNIT as shown in the figure below.

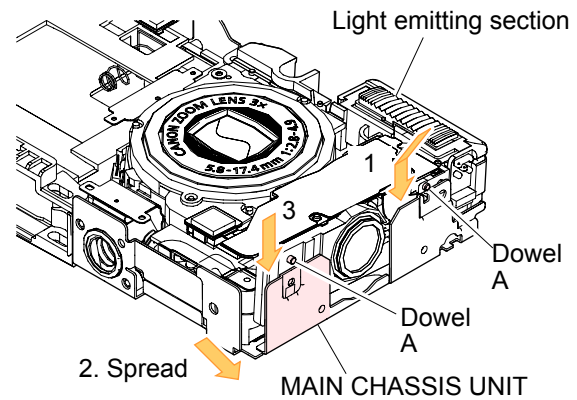
(2) Attach the FLASH UNIT as shown in the figure below.

Note on Reassembling (1)



1. Position with respect to the two dowels B and fix screws 1 through 4 in this order.

Note on Reassembling (2)

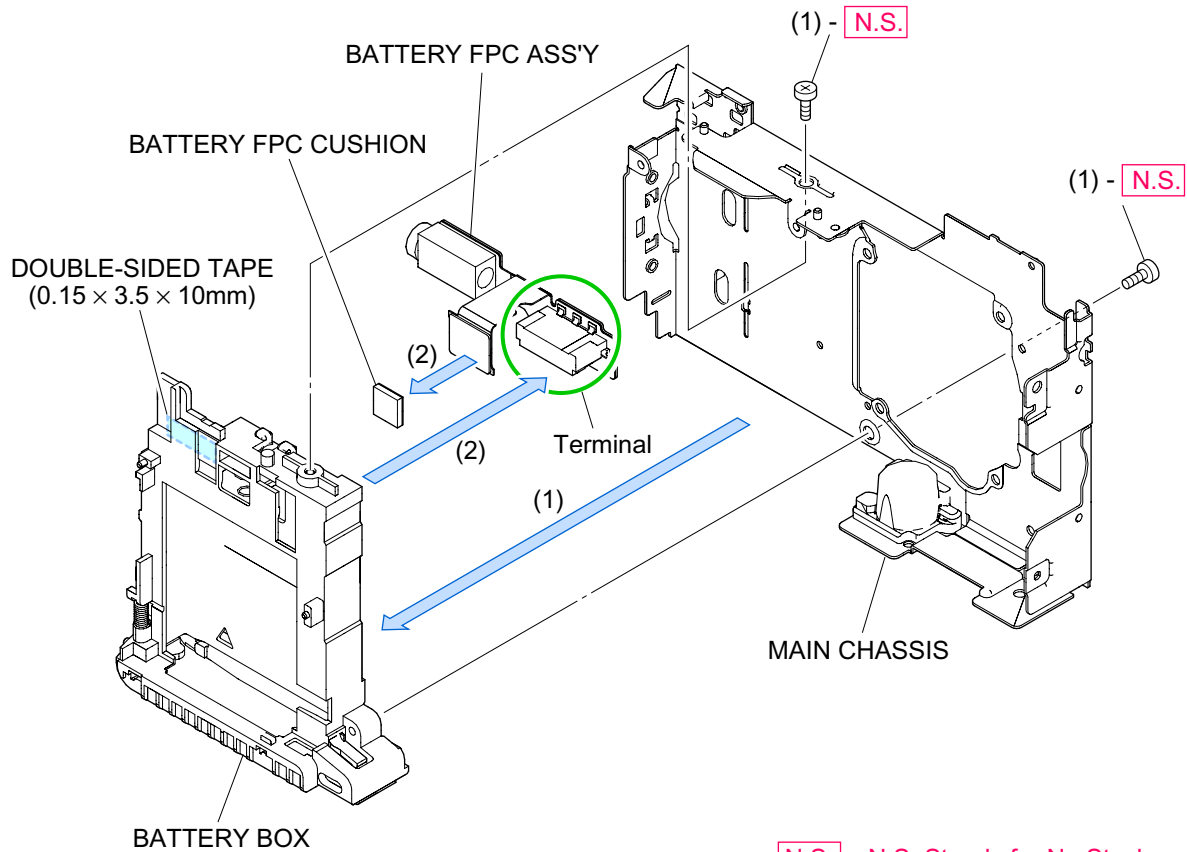


1. Engage the dowel on the light emitting side,
2. Slightly spread the MAIN CHASSIS UNIT, and
3. Engage the dowels A.

2.11 Disassembly of MAIN CHASSIS UNIT

- (1) Remove two screws (N.S. × 2), and then detach the BATTERY BOX section.
- (2) Peel off the DOUBLE-SIDED TAPE (0.15 × 3.5 × 10mm), and then detach the BATTERY FPC ASS'Y and BATTERY FPC CUSHION.

Note: Be careful not to damage the terminal of the BATTERY FPC ASS'Y.



N.S. : N.S. Stands for No Stock

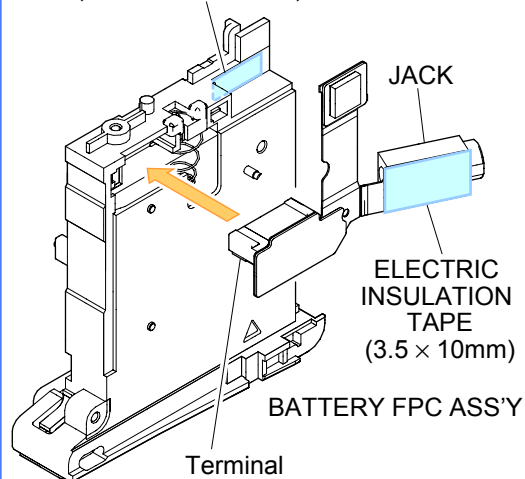
<Note on Reassembling>

(1) Attach the BATTERY FPC ASS'Y as shown in the figure below.

(2) Attach the BATTERY BOX and BATTERY FPC ASS'Y as shown in the figure below.

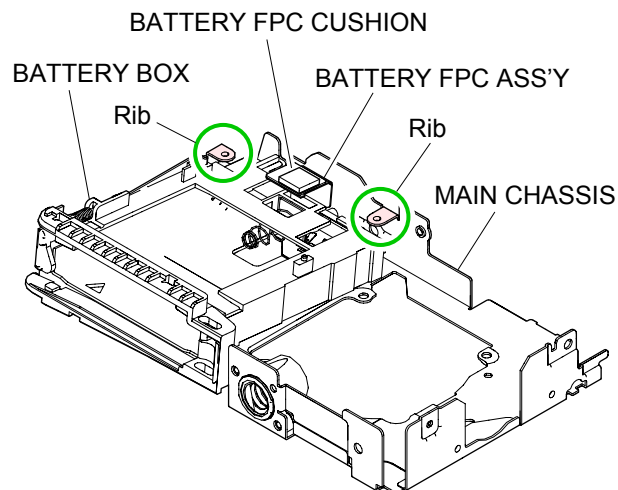
Note on Reassembling (1)

DOUBLE-SIDED TAPE
($0.15 \times 3.5 \times 10\text{mm}$)



Insert its terminal section and then its JACK section, and then attach the BATTERY FPC ASS'Y with double-sided tape.

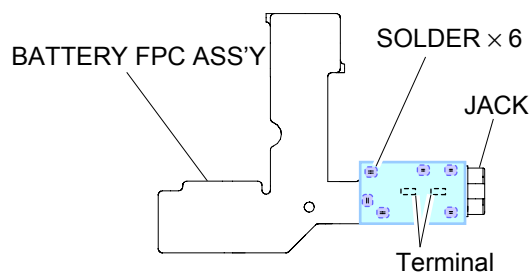
Note on Reassembling (2)



Pass the BATTERY BOX beneath the rib of MAIN CHASSIS and then attach it.

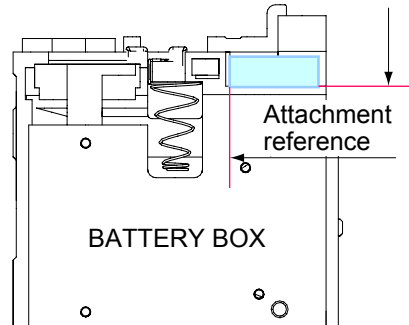
Supply attachment position

ELECTRIC INSULATION TAPE ($6.5 \times 12.5\text{mm}$)



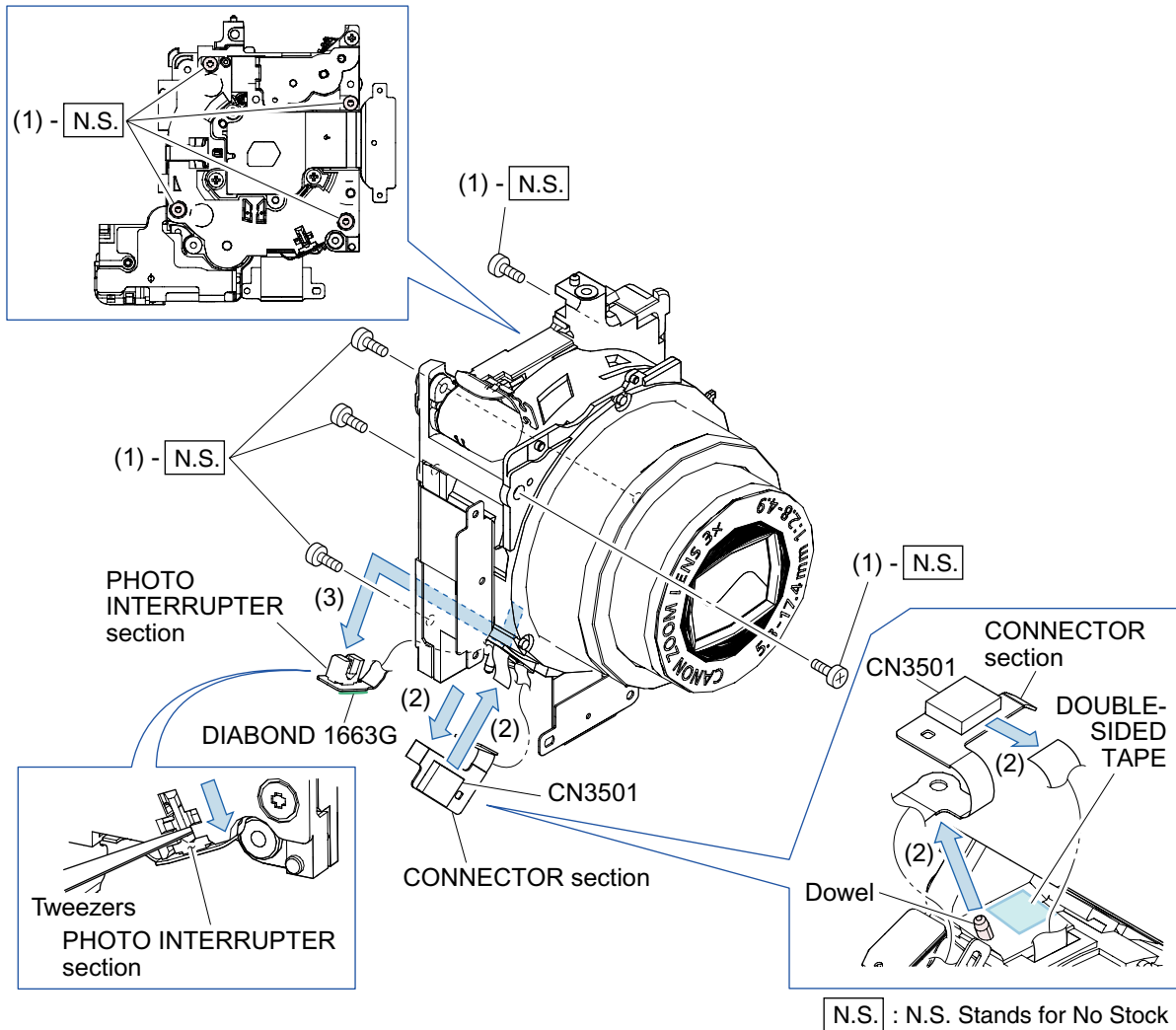
Completely cover the soldering and the terminals.

DOUBLE-SIDED TAPE ($0.15 \times 3.5 \times 10\text{mm}$)
Attachment reference



2.12 Disassembly of OPTICAL UNIT

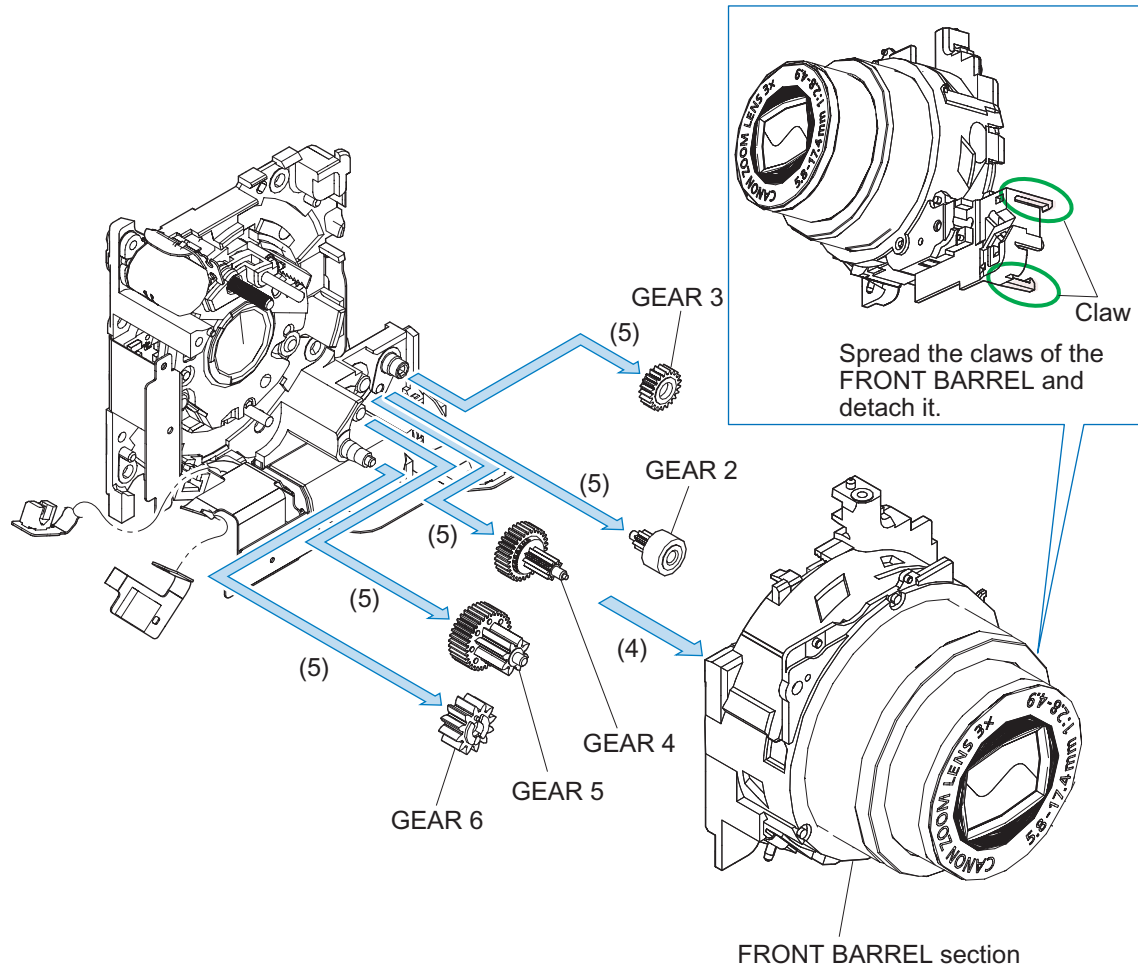
- (1) Remove five screws (N.S. × 5).
- (2) Disconnect the CN3501, disengage the dowel, and peel off the DOUBLE-SIDED TAPE, and then detach the OPTICAL FPC's CONNECTOR section.
- (3) Remove the DIABOND, and then OPTICAL FPC's PHOTO INTERRUPTER section.



(4) Disengage two claws, detach the FRONT BARREL section.

(5) Detach the GEARS 6, 5, 2, 4 and 3.

Note: Use your fingers or an air pin to detach/attach the GEARS.



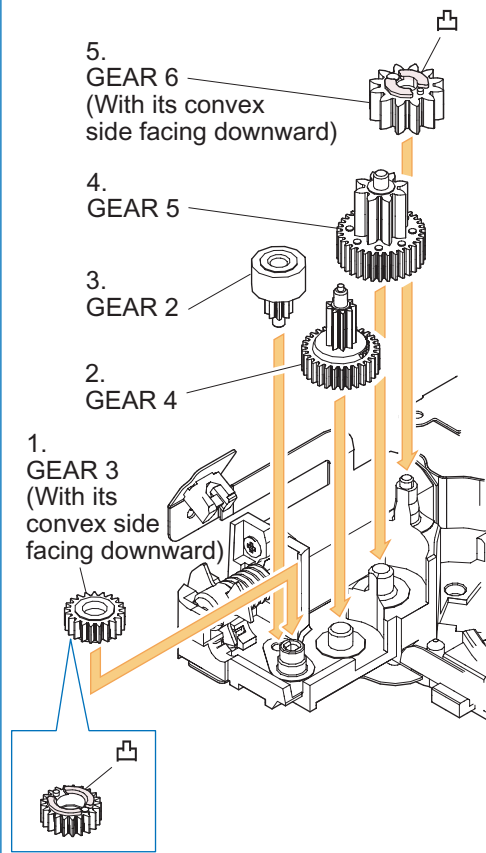
<Note on Reassembling>

(1) Attach the GEARS in the direction shown in the figure in the order shown.

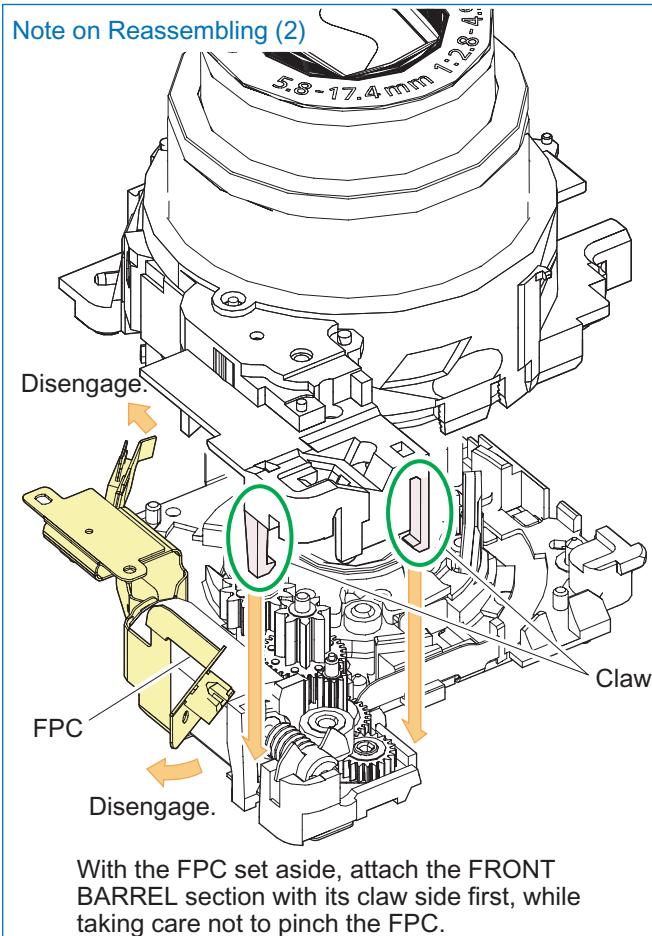
Note: When replacing a GEAR, replace the five GEARS as a set.

(2) Attach the FRONT BARREL section with its claw side first.

Note on Reassembling (1)

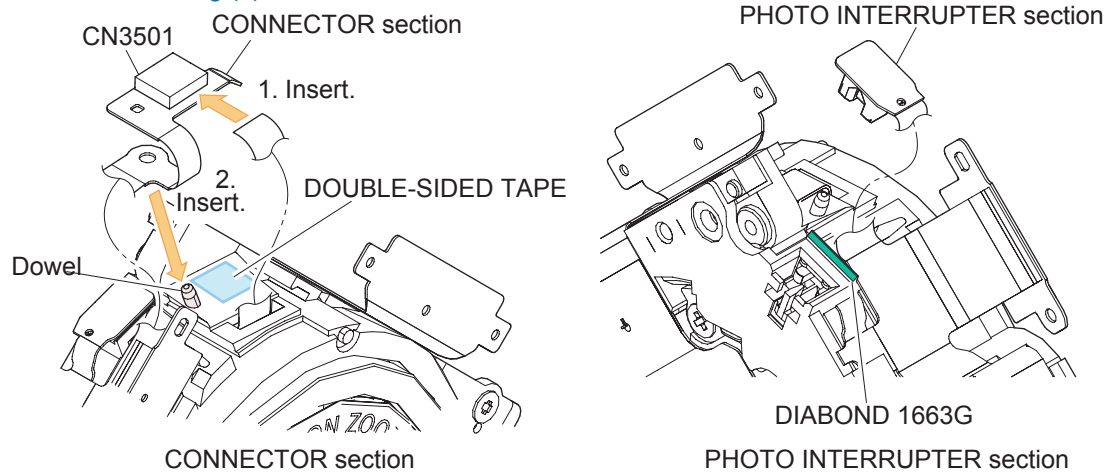


Note on Reassembling (2)



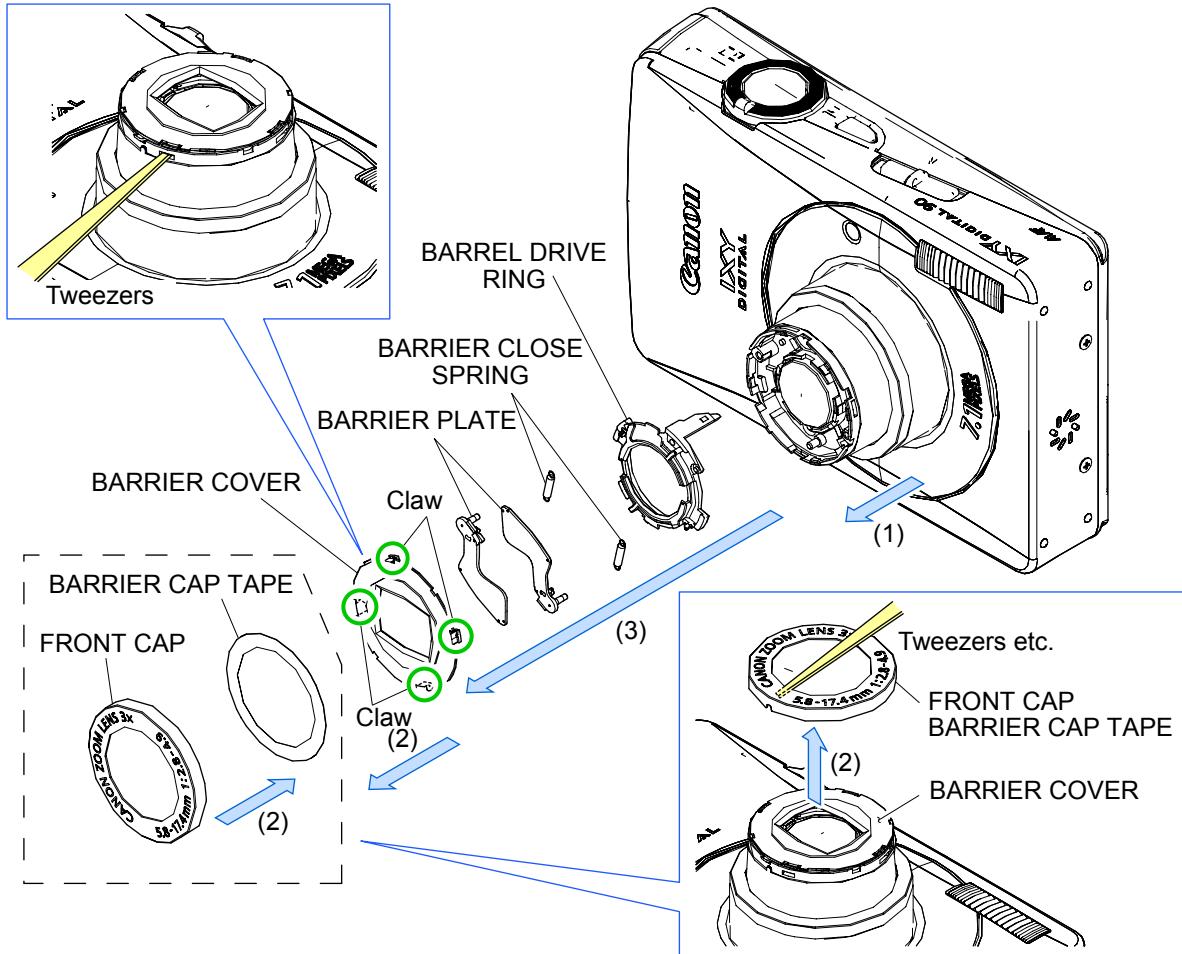
(3) Attach the PHOTO INTERRUPTER section and CONNECTOR section as shown in the figure below.

Note on Reassembling (3)



2.13 Disassembly of BARRIER COVER

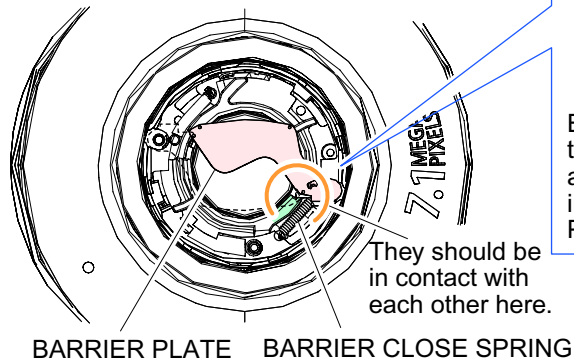
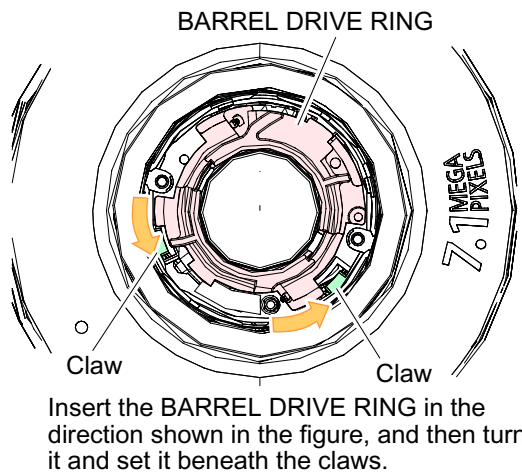
- (1) Extend the lens barrel.
- (2) Drip alcohol into the gap between the FRONT CAP and the BARRIER COVER with the tweezers, remove the BARRIER CAP TAPE, and remove the FRONT CAP.
Note: Be careful not to damage the FRONT CAP.
- (3) Disengage four claws, and then detach the BARRIER COVER, BARRIER PLATE, BARRIER CLOSE SPRING and BARREL DRIVE RING.



<Note on Reassembling>

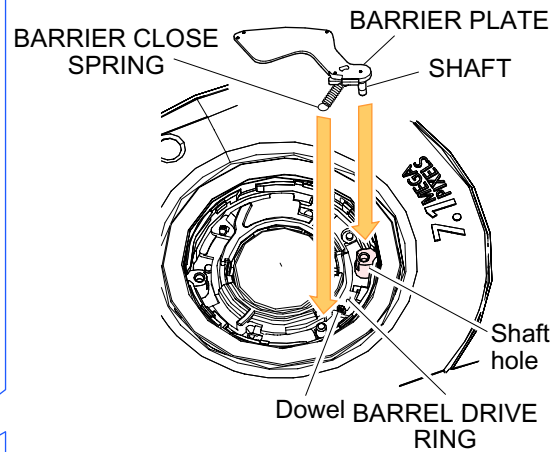
- (1) Retract the lens barrel and attach the BARREL DRIVE RING as shown in the figure.
- (2) Attach the BARRIER PLATE and BARRIER CLOSE SPRING as shown in the figure below.

Note on Reassembling (1)



Note on Reassembling (2)

Put the BARRIER PLATE and the BARRIER CLOSE SPRING together.

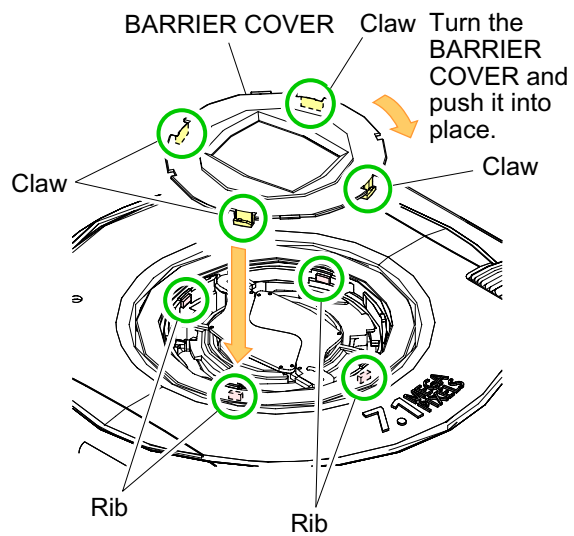


Engage the BARRIER CLOSE SPRING with the dowel of the BARREL DRIVE RING, and insert the SHAFT of BARRIER PLATE into the shaft hole and attach the BARRIER PLATE.

(3) Attach the BARRIER COVER as shown in the figure below.

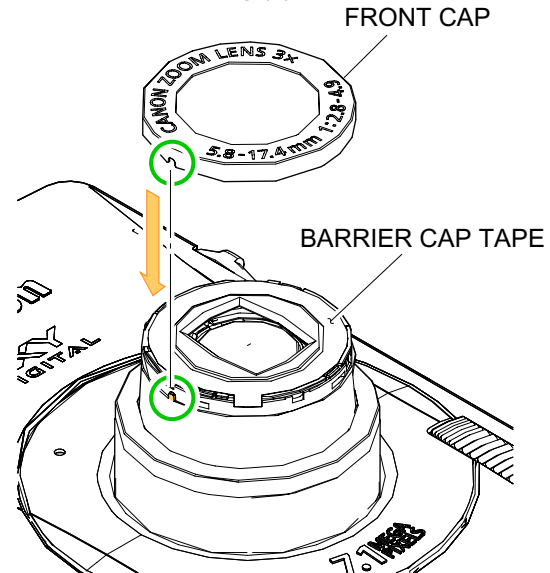
(4) Extend the lens barrel and attach the FRONT CAP and the BARRIER CAP TAPE to it as shown in the figure.

Note on Reassembling (3)



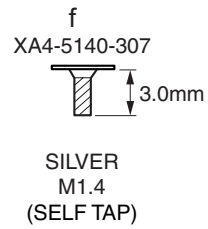
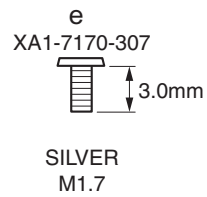
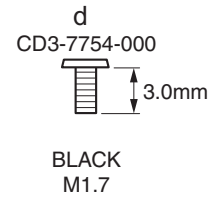
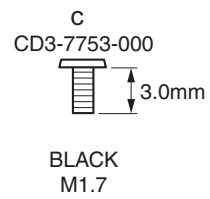
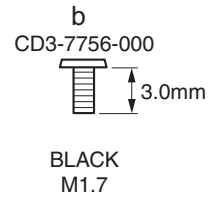
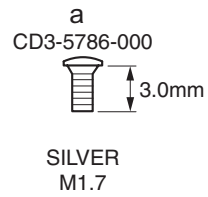
Push the claws of the BARRIER COVER in beneath the ribs to attach the BARRIER COVER.

Note on Reassembling (4)



Position with respect to the dowel and attach the FRONT CAP.

2.14 List of Screws



DISASSEMBLY

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For CA, USA only

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See www.dtsc.ca.gov/hazardouswaste/perchlorate/ for details.



廢電池請回收

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1. Before Starting the Repair Work

Be sure to read the following precautions before starting the repair work.

1.1 Precautions on Flash High Voltage Circuit

- After the FLASH UNIT is removed, be sure to discharge the main capacitor.
(Discharging resistor: 1 k Ω , approx. 5 W.)
- First contact the GND \ominus terminal of the main capacitor with the discharging resistor.
Then contact the positive \oplus terminal of the main capacitor.

CAUTION:

Be careful of electric shock because the circuit is a high voltage circuit.

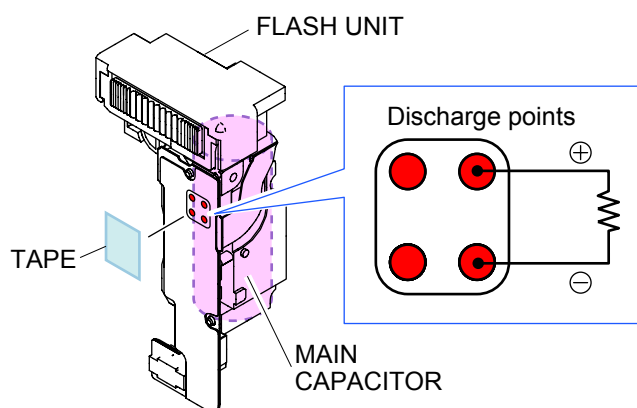


Fig. 1 Precautions on Flash High Voltage Circuit

1.2 List of Tools

The following tools are used for the re-assembling during service.

List of tools

New	Name of tools	Part No.	Remarks
	Screwdriver (Local Purchase)		
	Tweezers (Local Purchase)		

1.3 List of Supplies

The following supplies are used for the re-assembling during service.

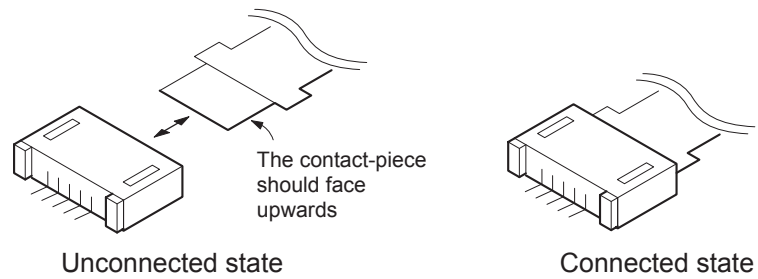
List of supplies

New	Name of supplies	Part No.	Remarks
	ADHESIVE TAPE, SONY T4000	CY4-6012-000	Double-sided tape (0.15mm \times 6mm \times 50m)
	ADHESIVE TAPE, 3M NO. 56	CY4-6018-000	Electric insulation tape
	BOND, DIABOND NO.1663G BLACK	CY9-8129-000	200ml
*	TAPE, DOUBLE SIDED (NO.531)	CY9-4505-000	Double-sided tape (0.06mm \times 10mm \times 5m)

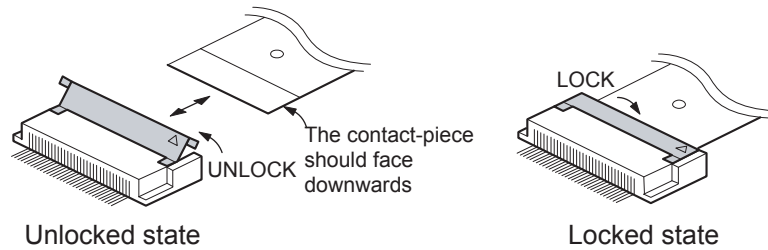
1.4 Connectors for FPC Board

This product uses four types of connectors for the FPC board.

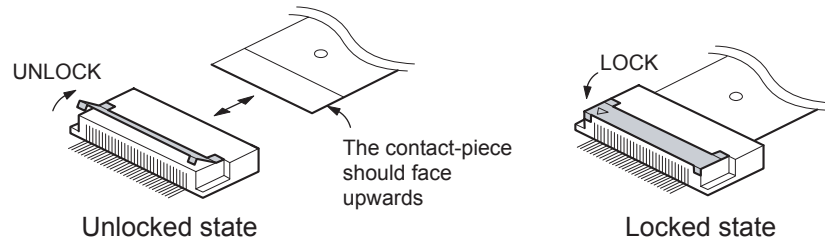
1 Type A



2 Type B



3 Type C



4 Type D

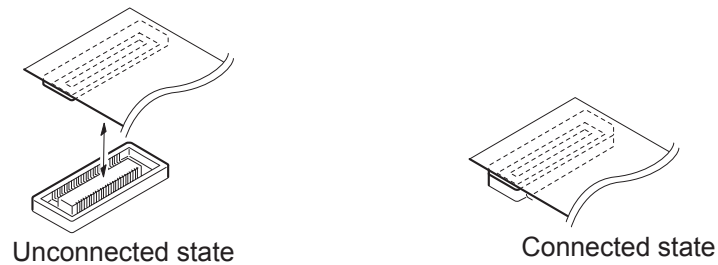


Fig. 2 Connectors for FPC board

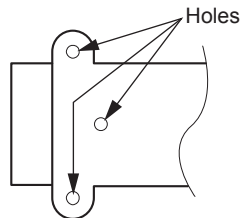


Fig. 3 Holes for removal

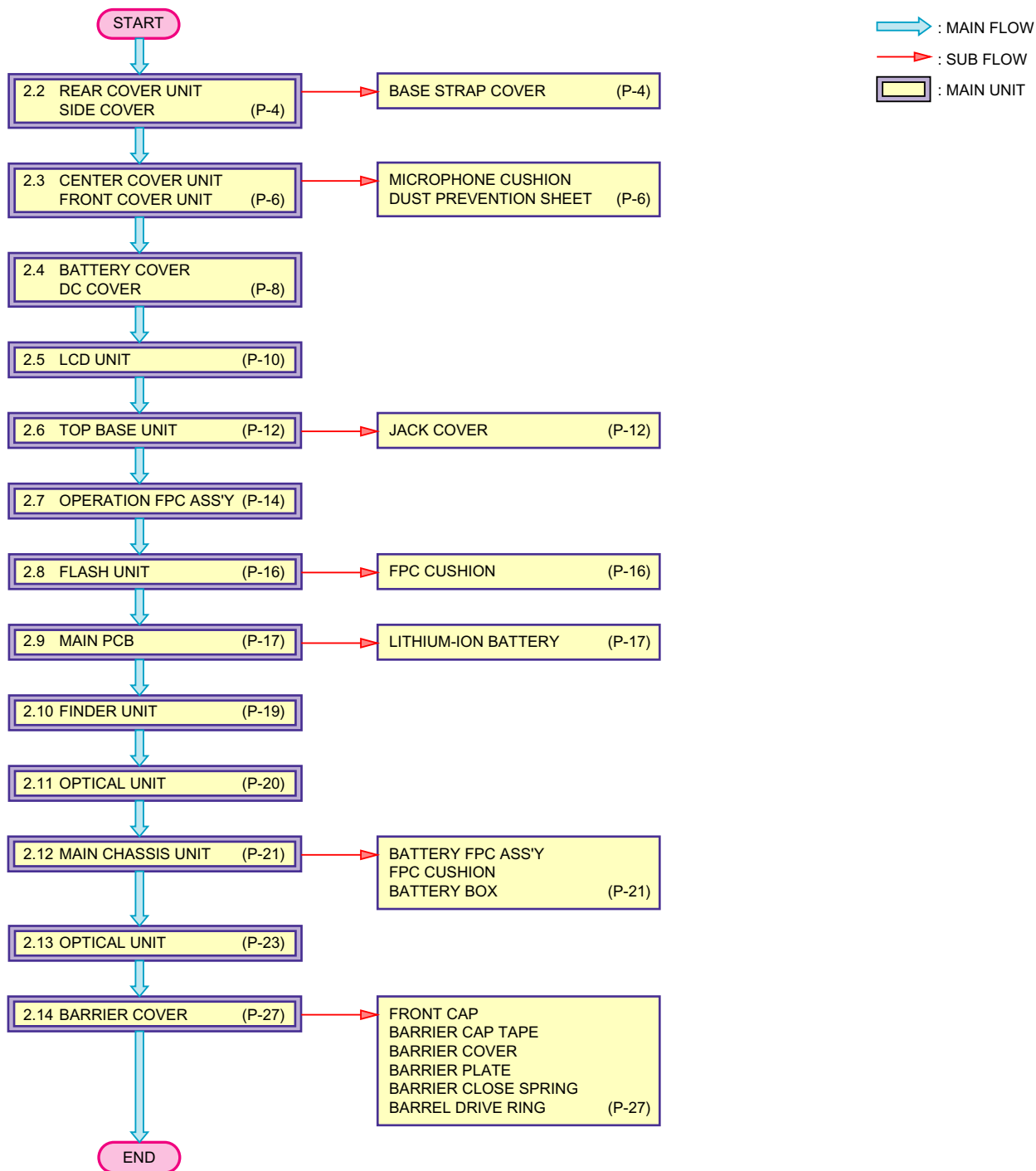
CAUTION:

1. For the connectors of Type C, make sure to set them to the unlocked state before removing and inserting the FPC board. After the FPC board is inserted, set them to the locked state.
2. The FPC board is equipped with holes as shown. Use them for removal and insertion by inserting the tweezers into them as required.

2. Disassembling / Reassembling

2.1 Procedure

- (1) The following flowchart shows the disassembly procedure for DIGITAL IXUS 70/PowerShot SD1000 DIGITAL ELPH.
- (2) Reverse the disassembly procedure to reassemble them. *The pages to refer to are shown in parentheses ().

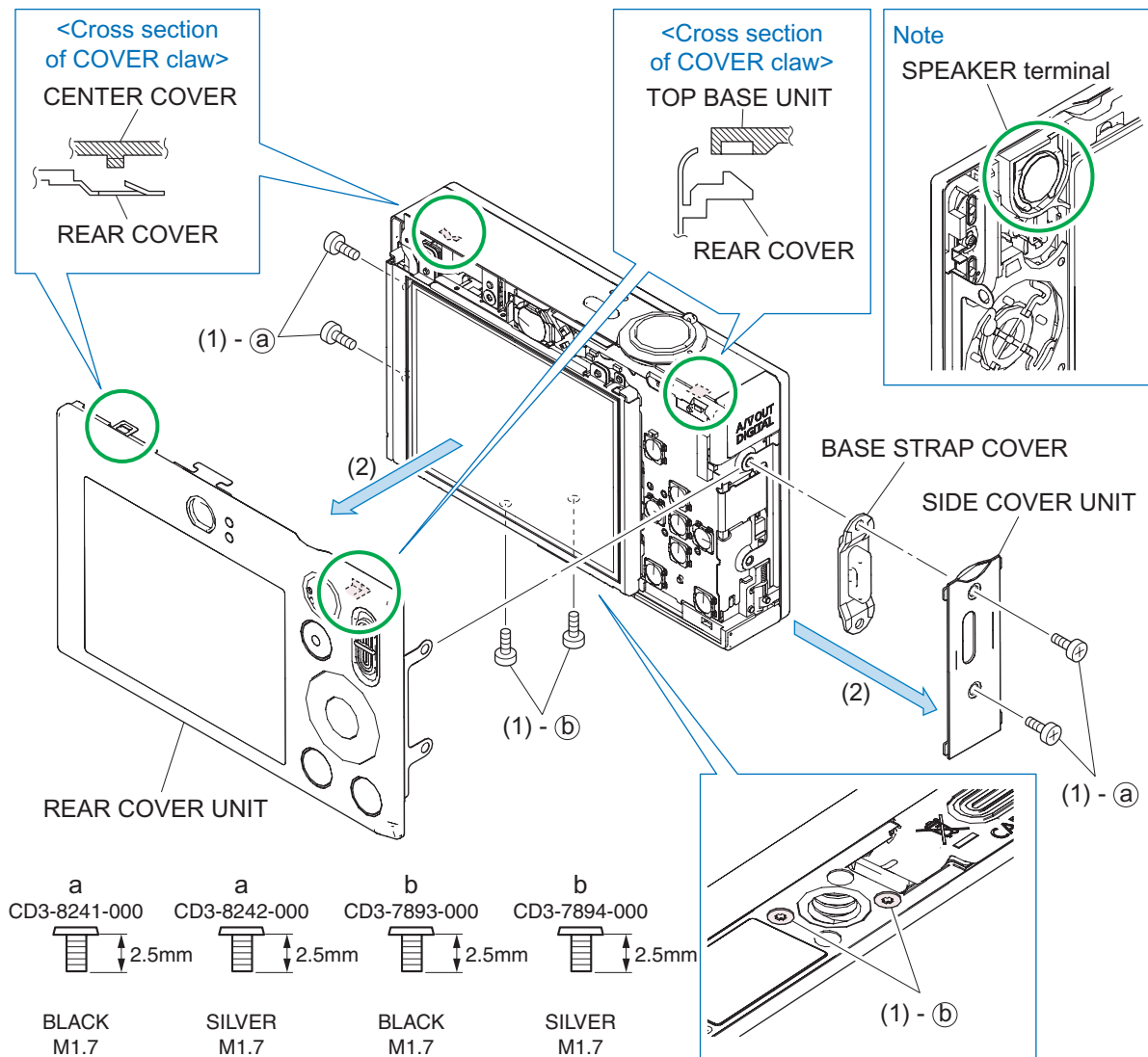


2.2 Separation of REAR COVER UNIT/SIDE COVER

(1) Remove six screws (a × 4, b × 2).

(2) Detach the REAR COVER UNIT, SIDE COVER UNIT and STRAP COVER.

Note: When detaching/attaching the REAR COVER UNIT, be careful not to damage the SPEAKER terminal.



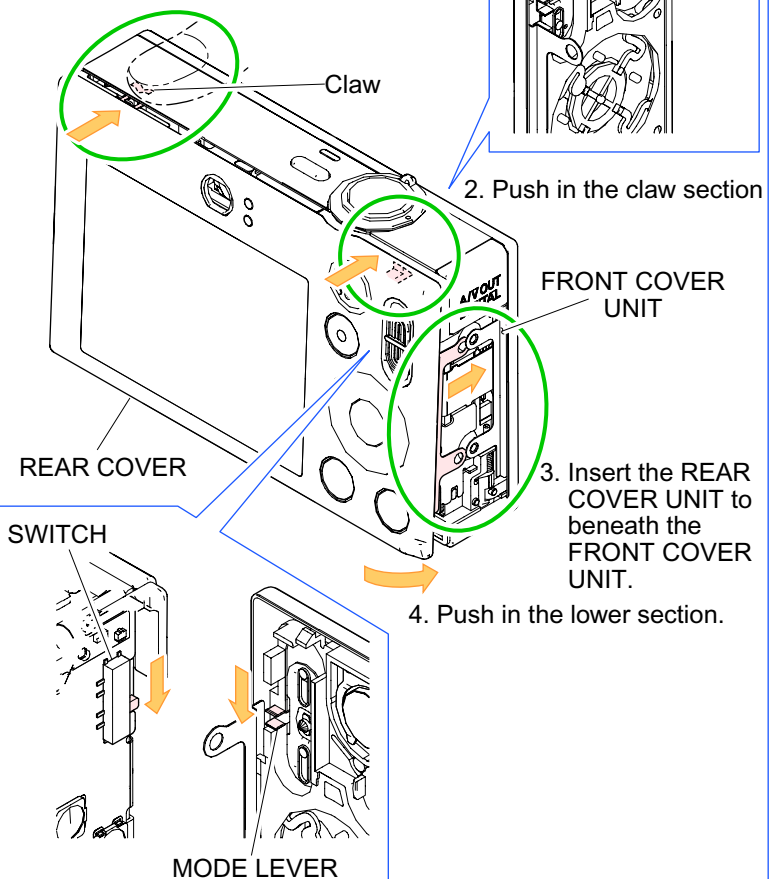
<Note on Reassembling>

(1) Attach the REAR COVER UNIT as shown in the figure below.

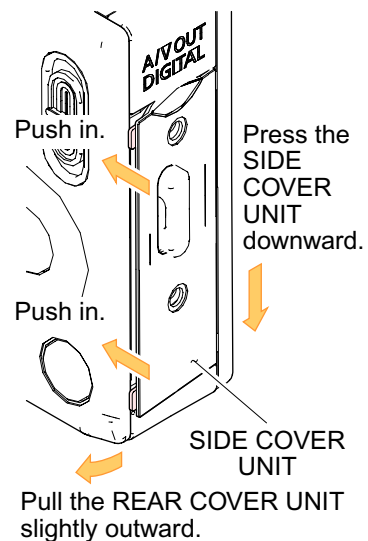
(2) Attach the SIDE COVER UNIT as shown in the figure below.

Note on Reassembling (1)

1. While slightly pressing down the section just above the claw, push in the REAR COVER.



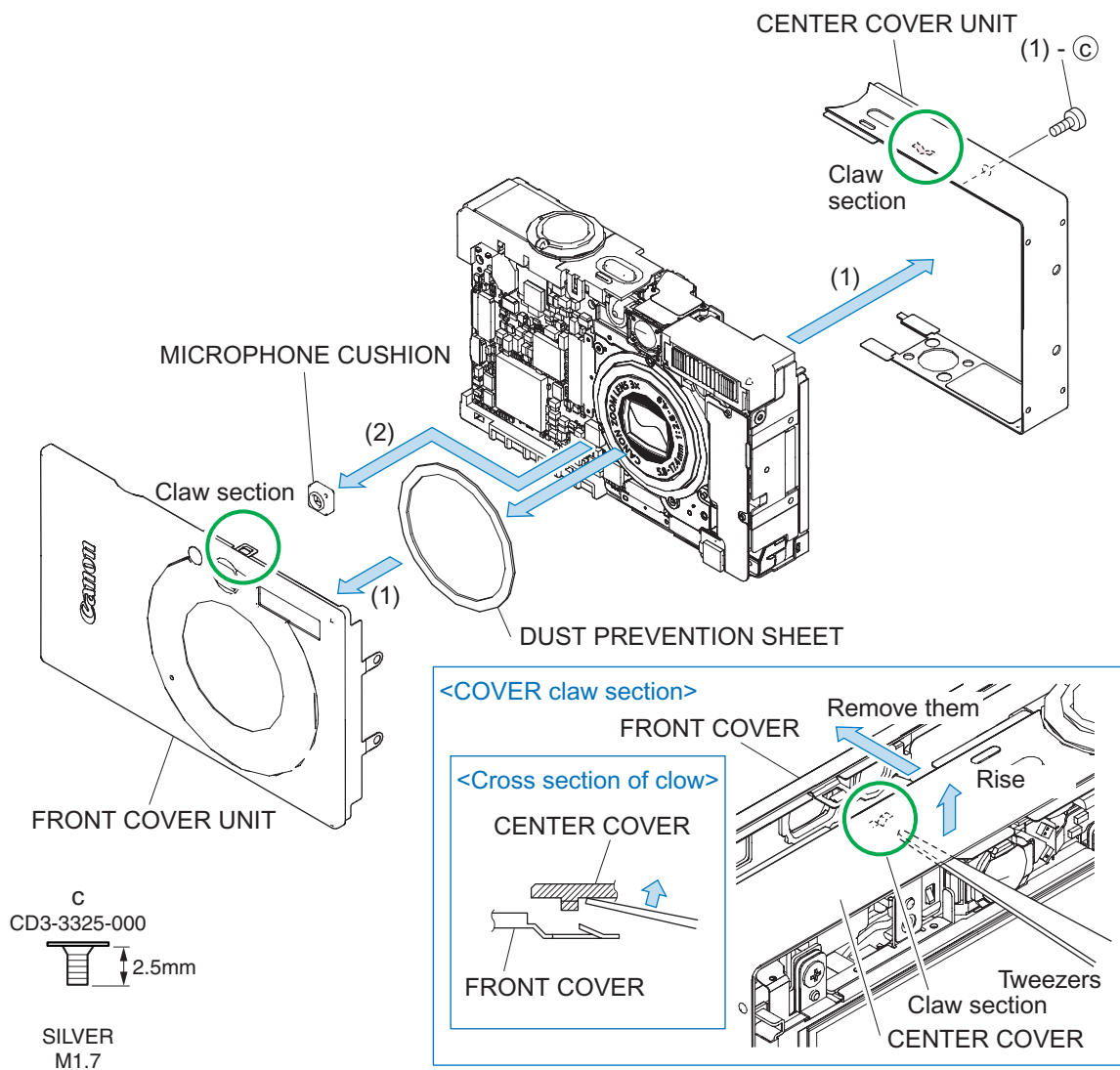
Note on Reassembling (2)



Pull the REAR COVER UNIT slightly outward and push in the SIDE COVER UNIT. With the SIDE COVER UNIT slightly pressed downward, fix it with screws.

2.3 Separation of CENTER COVER UNIT/FRONT COVER UNIT

- (1) Remove one screw (c × 1), and then detach the FRONT COVER UNIT and CENTER COVER UNIT.
- (2) Detach the DUST PREVENTION SHEET and MICROPHONE CUSHION.

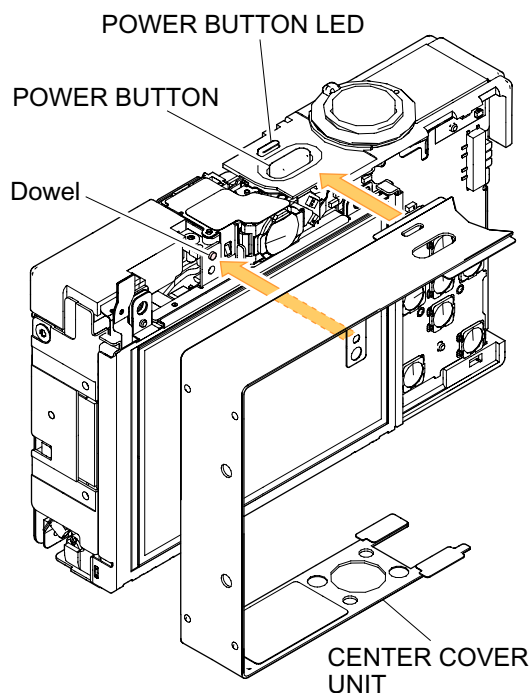


<Note on Reassembling>

(1) Attach the CENTER COVER UNIT as shown in the figure below.

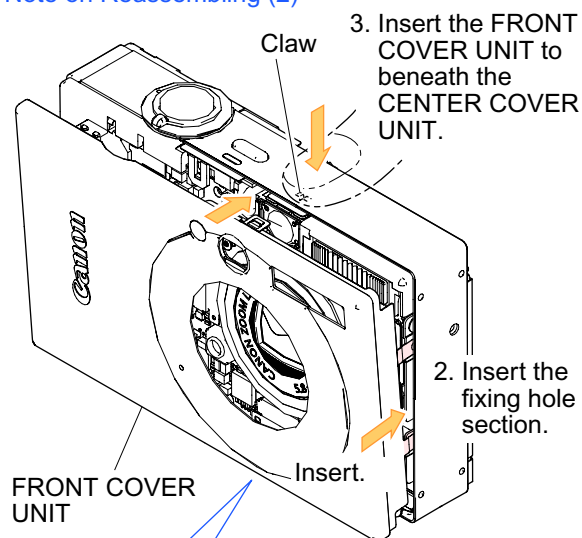
(2) Attach the FRONT COVER UNIT as shown in the figure below.

Note on Reassembling (1)



While being careful about the POWER BUTTON and the POWER BUTTON LED, position with respect to the dowel and attach the CENTER COVER UNIT.

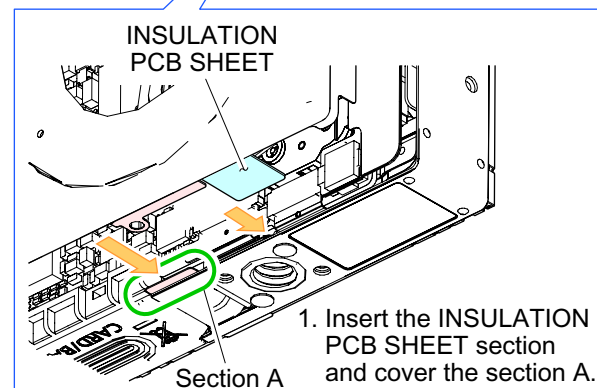
Note on Reassembling (2)



3. Insert the FRONT COVER UNIT to beneath the CENTER COVER UNIT.

2. Insert the fixing hole section.

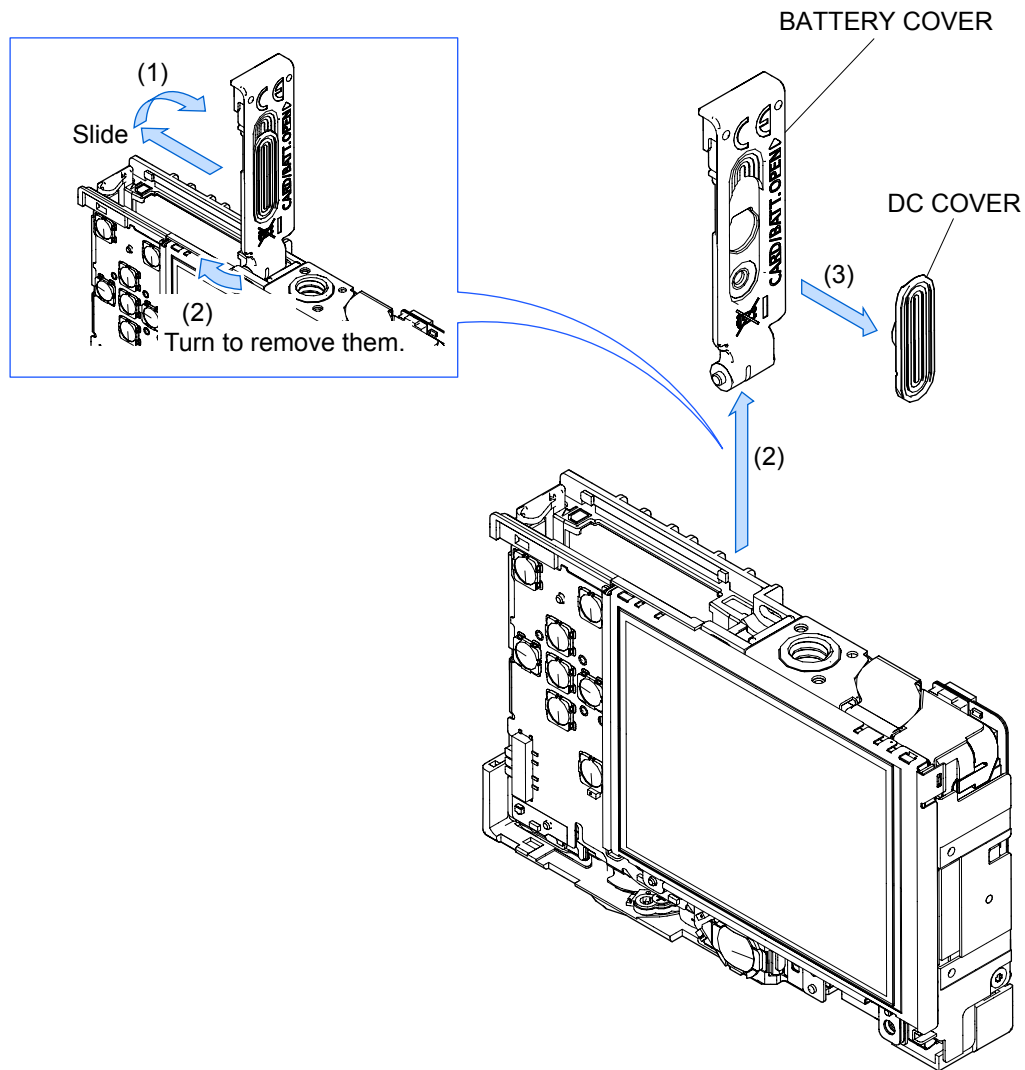
Insert.



1. Insert the INSULATION PCB SHEET section and cover the section A.

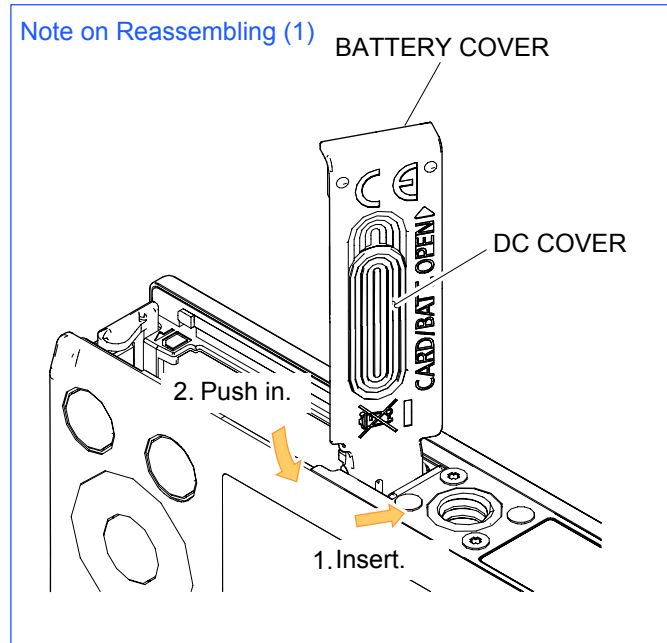
2.4 Disassembly of BATTERY COVER/DC COVER

- (1) Open the BATTERY COVER.
- (2) Detach the BATTERY COVER and DC COVER in subassembly form by turning them in the direction of the arrows.
- (3) Detach the DC COVER from the BATTERY COVER.



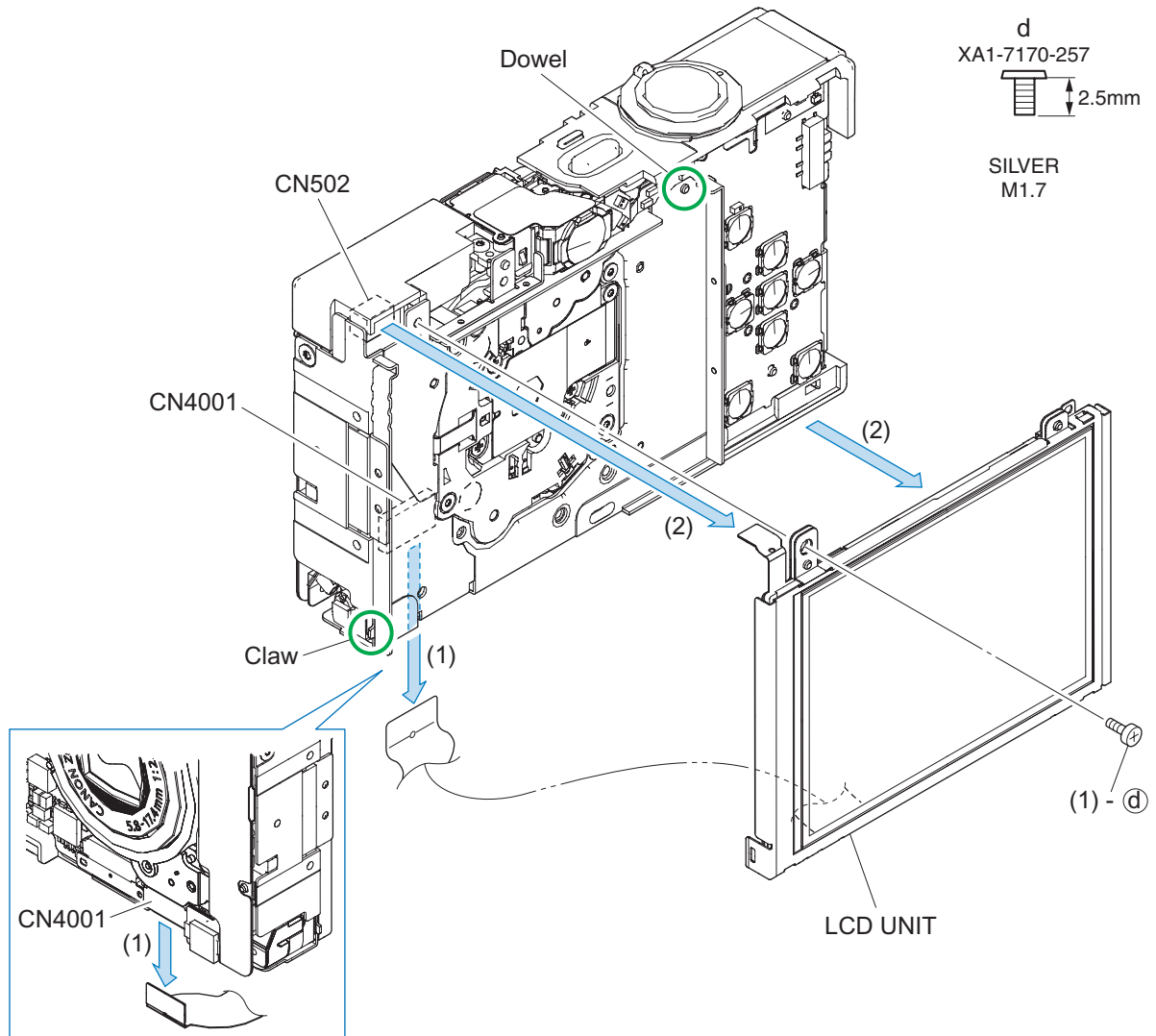
<Note on Reassembling>

- (1) Attach the BATTERY COVER and the DC COVER as shown in the figure, after attachment of all machine components other than those that have been completed.



2.5 Separation of LCD UNIT

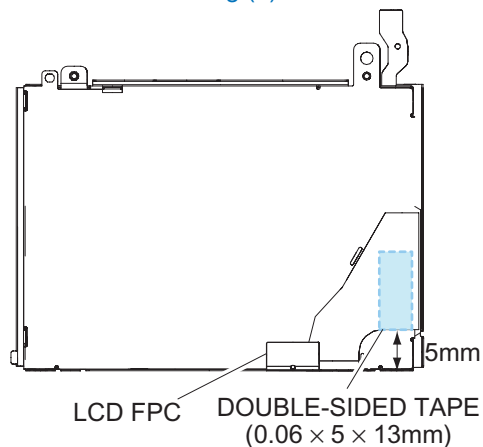
- (1) Remove one screw ($d \times 1$), disconnect the CN4001, disengage the dowel and claw, and slightly set the LCD UNIT away from the main unit.
- (2) Disconnect the CN502 and then detach the LCD UNIT.



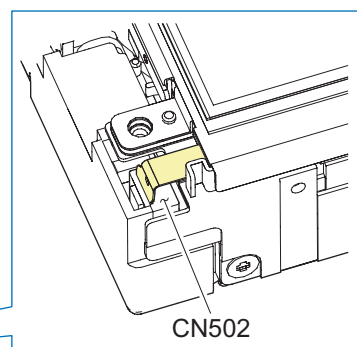
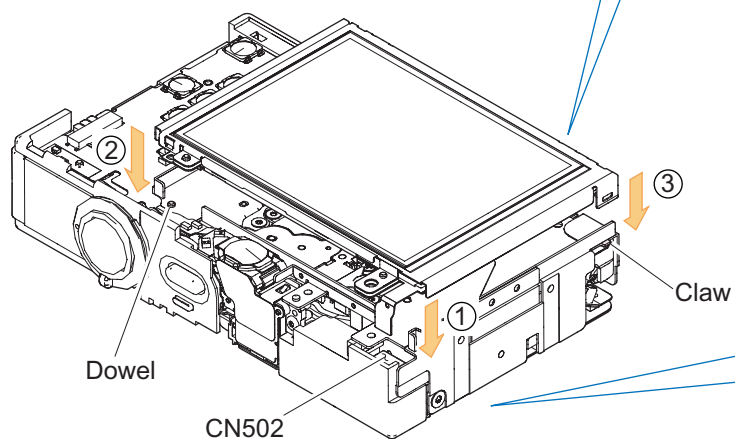
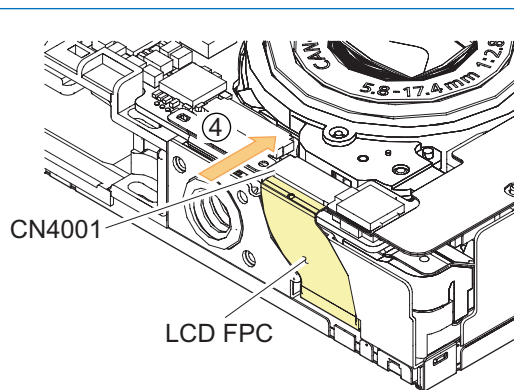
<Note on Reassembling>

- (1) Attach the DOUBLE-SIDED TAPE (0.06 × 5 × 13mm) and LCD FPC at the respective positions shown in the figure below.
- (2) Attach the LCD UNIT as shown in the figure below.

Note on Reassembling (1)



Note on Reassembling (2)



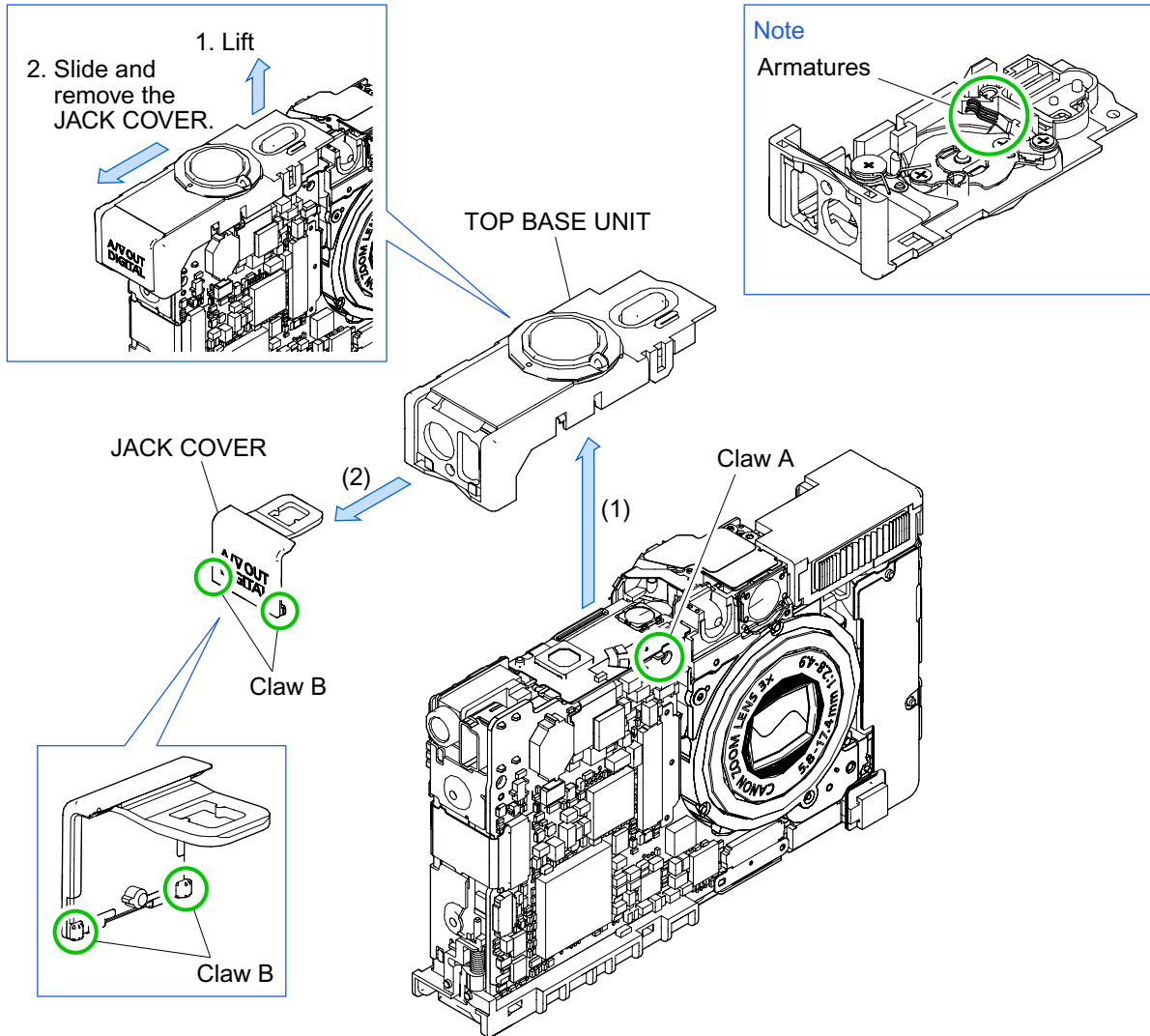
- ①. Connect the CN502,
- ②. position with respect to the dowel,
- ③. push in the LCD unit to engage the claw, and
- ④. connect the CN4001 and attach the LCD unit.

2.6 Separation of TOP BASE UNIT

(1) Disengage the claw A, and then detach the TOP BASE UNIT and JACK COVER in a subassembly form.

Note: When detaching/attaching the TOP BASE UNIT, be careful not to deform or damage the armatures.

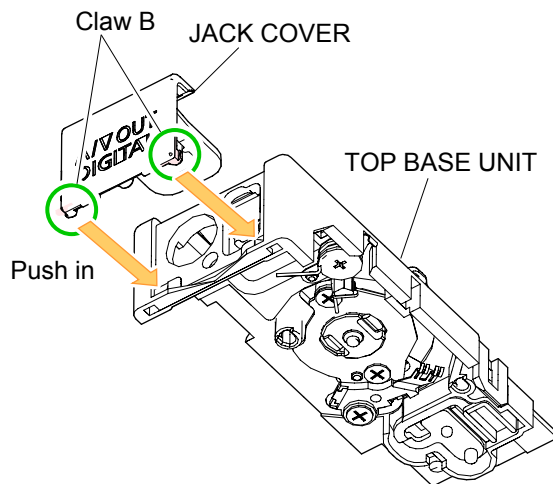
(2) Disengage the claw B, and then detach the JACK COVER.



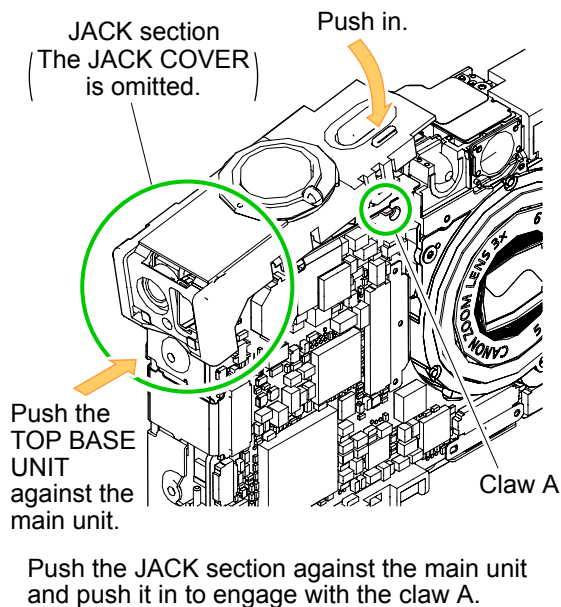
<Note on Reassembling>

- (1) Attach the JACK COVER as shown in the figure below.
- (2) Attach the TOP BASE UNIT as shown in the figure below.

Note on Reassembling (1)

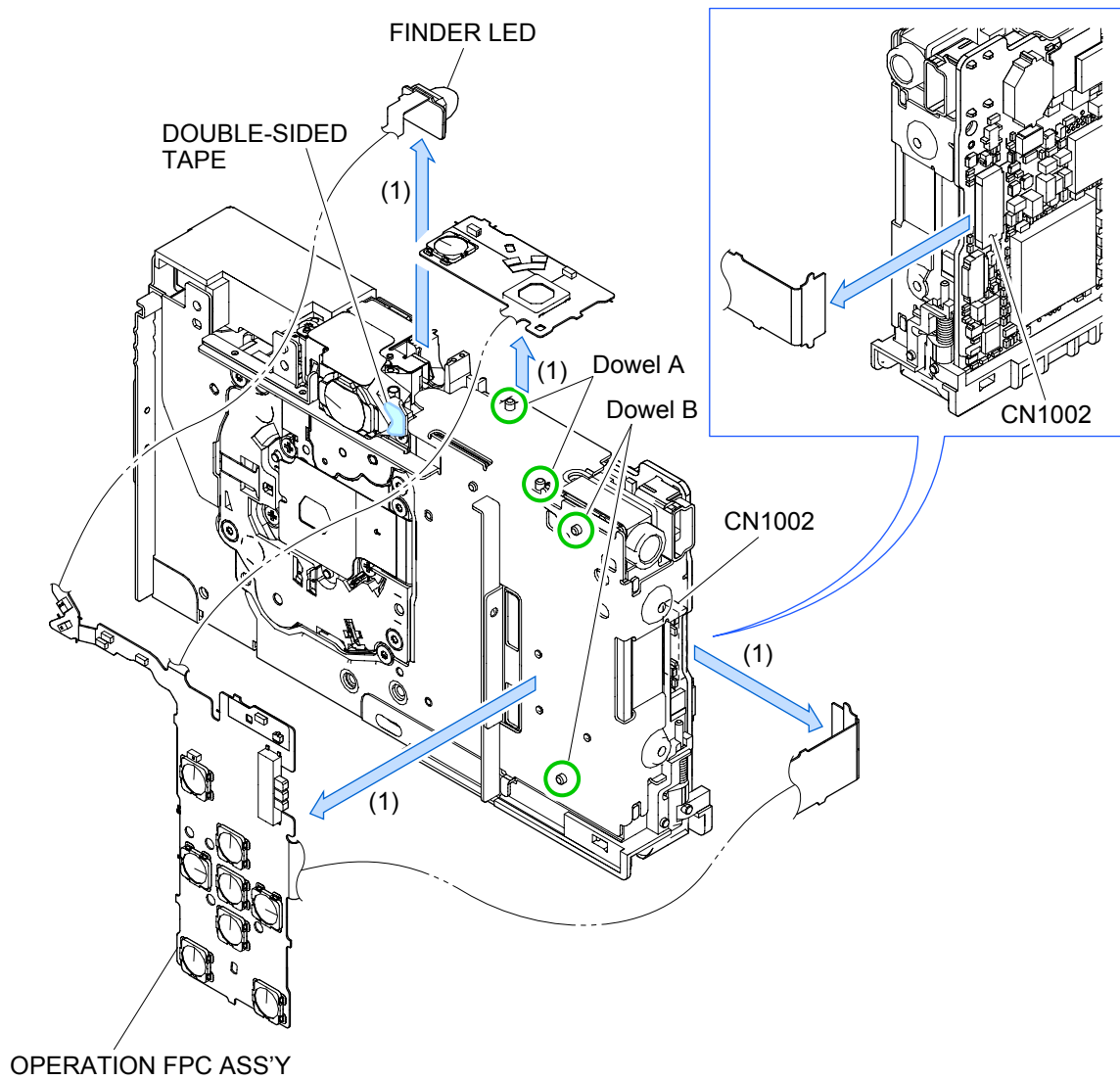


Note on Reassembling (2)



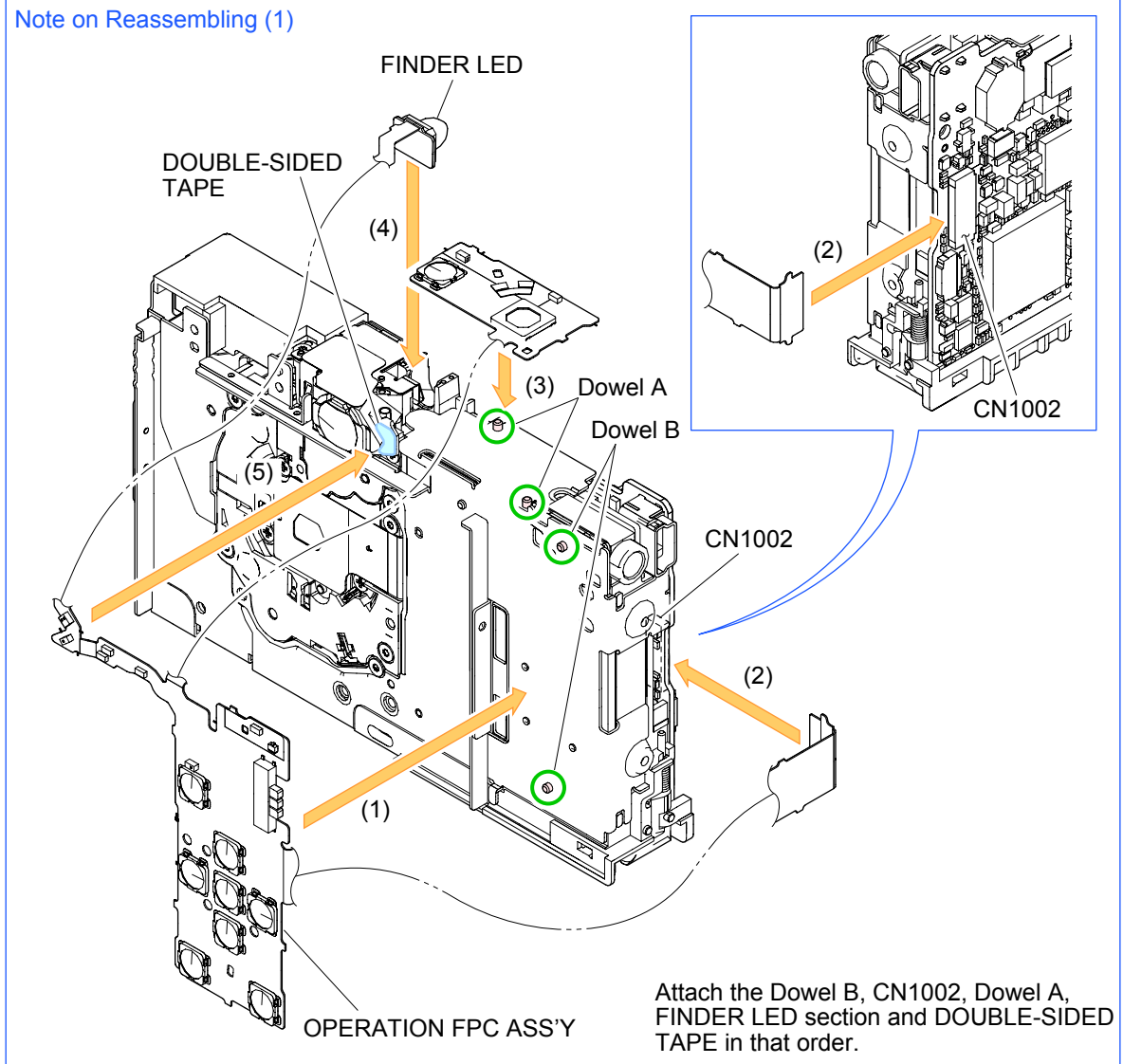
2.7 Separation of OPERATION FPC ASS'Y

- (1) Detach the FINDER LED section, peel off the DOUBLE-SIDED TAPE, disengage the two dowels A and two dowels B, and disconnect the CN1002 in that order, and then detach the OPERATION FPC ASS'Y.



<Note on Reassembling>

(1) Attach the OPERATION FPC ASS'Y as shown in the figure below.

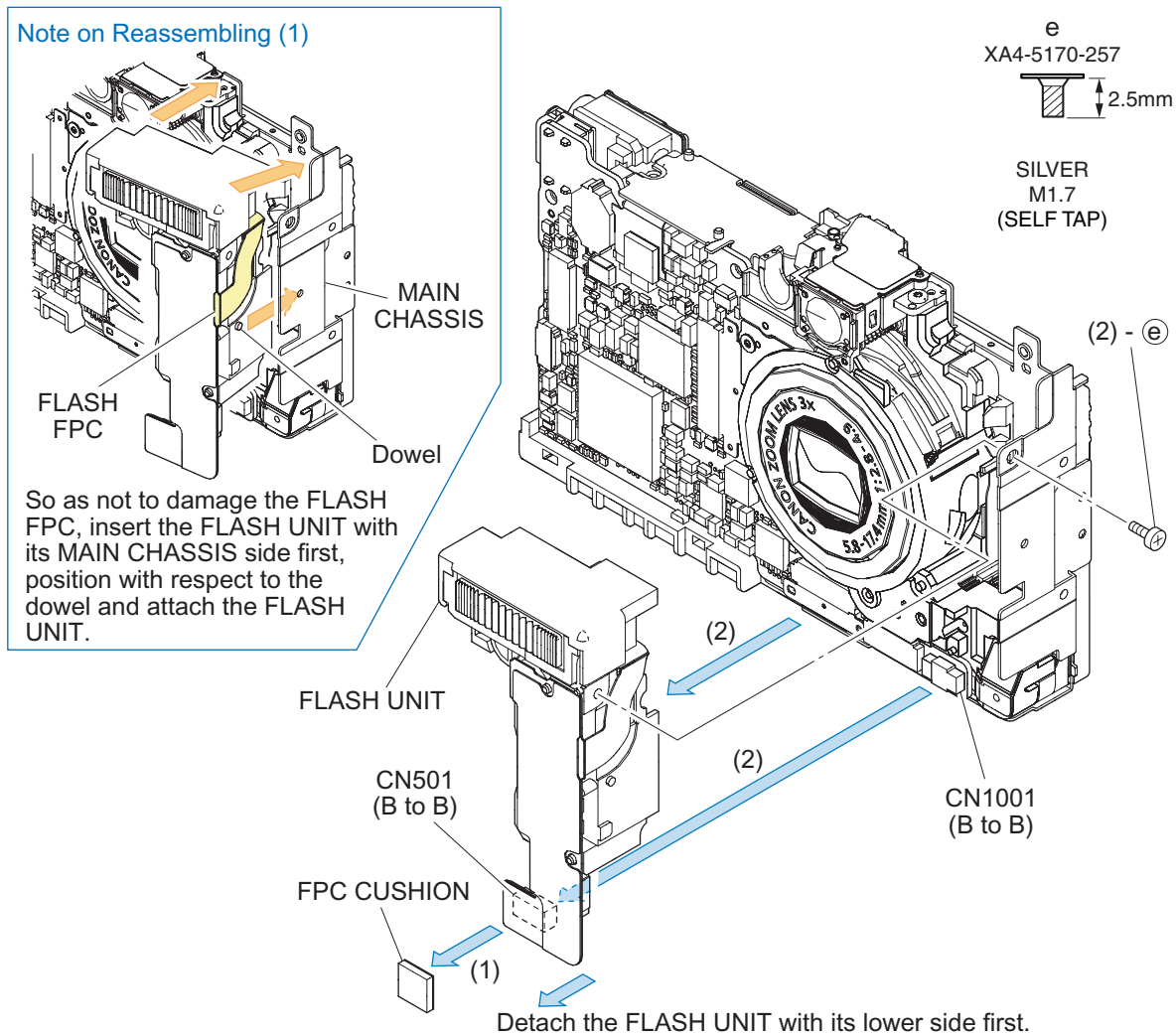


2.8 Separation of FLASH UNIT

- (1) Detach the FPC CUSHION.
- (2) Remove one screw (e × 1), disconnect the CN501, CN1001 (B to B), and then detach the FLASH UNIT.

<Note on Reassembling>

- (1) Attach the FLASH UNIT as shown in the figure below.

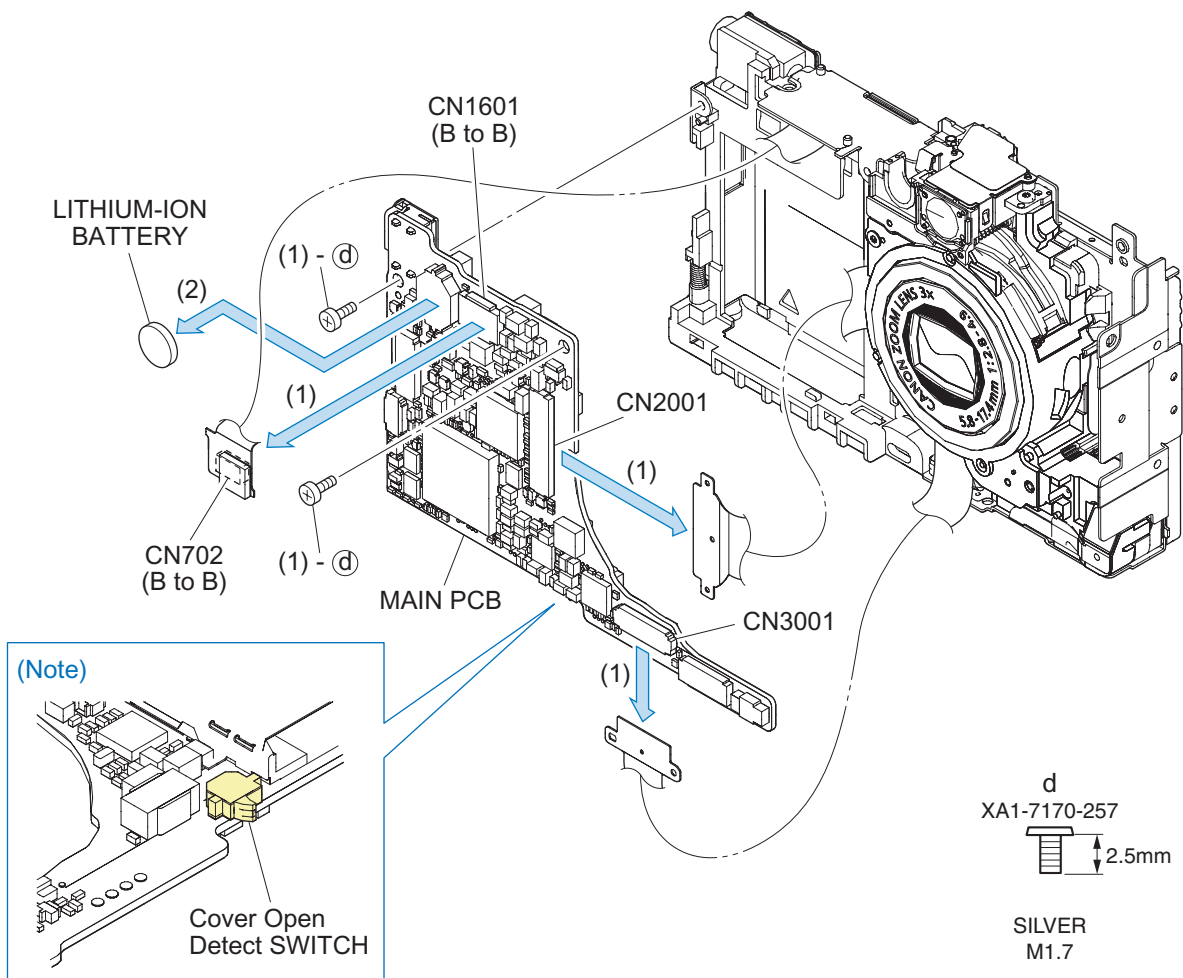


2.9 Disassembly of MAIN PCB

(1) Remove two screws (d × 2), and disconnect the CN601 (B to B), CN2001 and CN3001, and then detach the MAIN PCB.

Note: Be careful not to damage the Cover Open Detect switch.

(2) Detach the LITHIUM-ION BATTERY from the MAIN PCB.

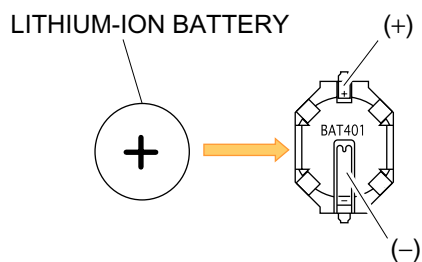


<Note on Reassembling>

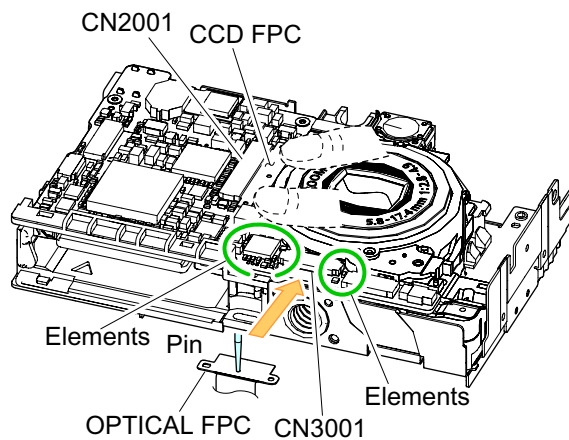
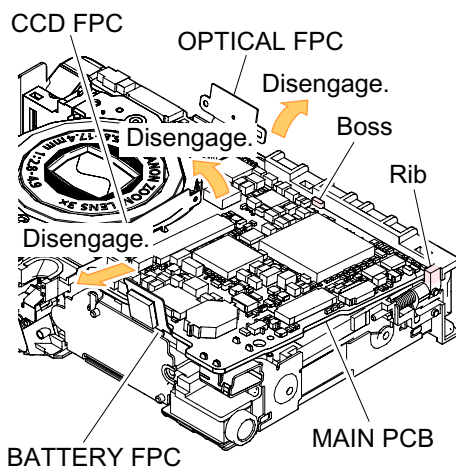
(1) Attach the LITHIUM-ION BATTERY in the direction shown in the figure below.

(2) Attach the MAIN PCB as shown in the figure below.

Note on Reassembling (1)



Note on Reassembling (2)



1. Disengage the OPTICAL UNIT FPC, CCD FPC and BATTERY FPC, and position with respect to the boss and the rib and attach the MAIN PCB.

2. Insert the CCD FPC into the CN2001 with both hands.

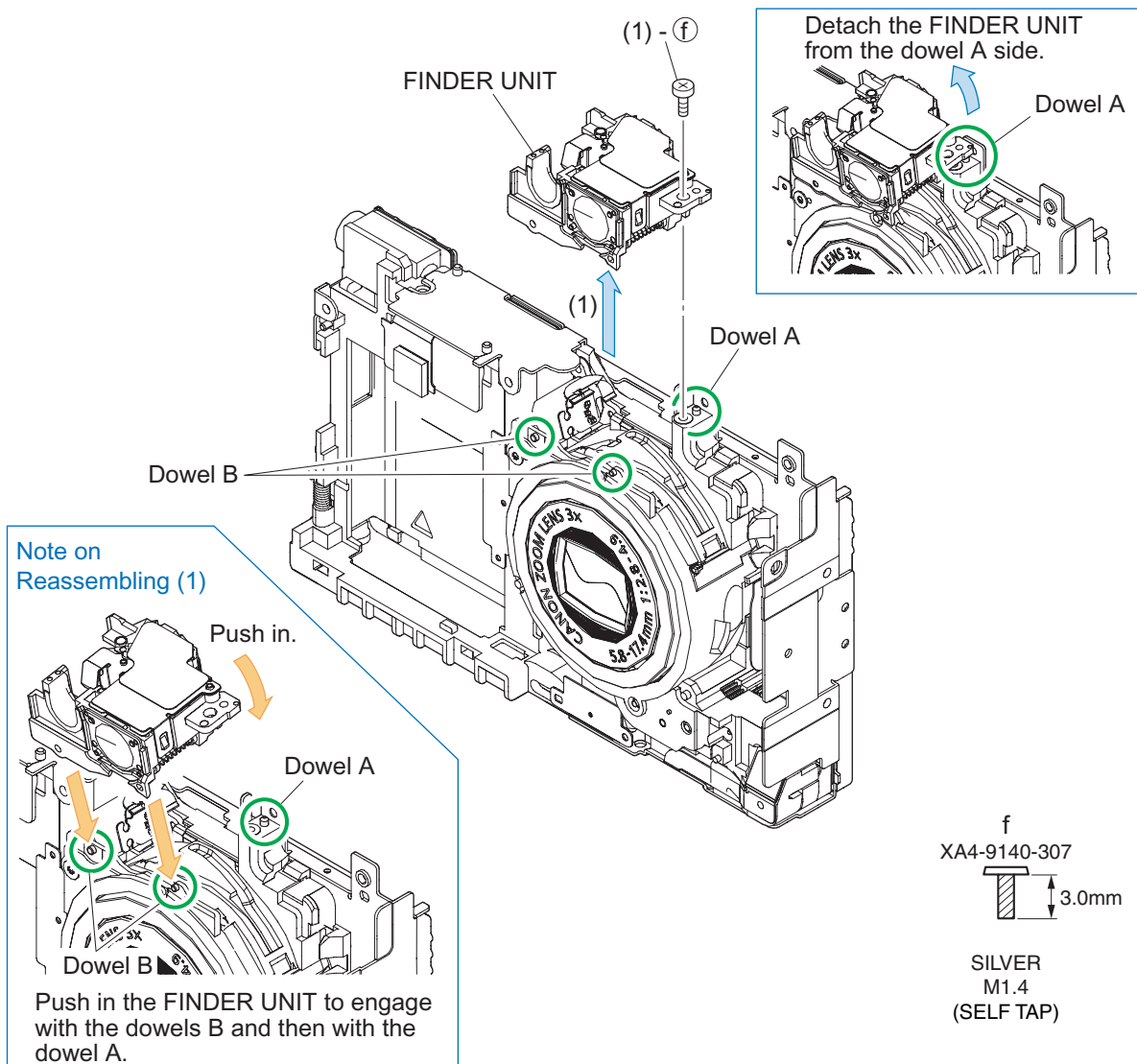
3. Using the pin for its center hole, insert the OPTICAL UNIT FPC. (To prevent damage to the elements on both ends)

2.10 Separation of FINDER UNIT

(1) Remove one screw (f × 1) and disengage the one dowel A and two dowels B, and then detach the FINDER UNIT.

<Note on Reassembling>

(1) Attach the FINDER UNIT as shown in the figure below.

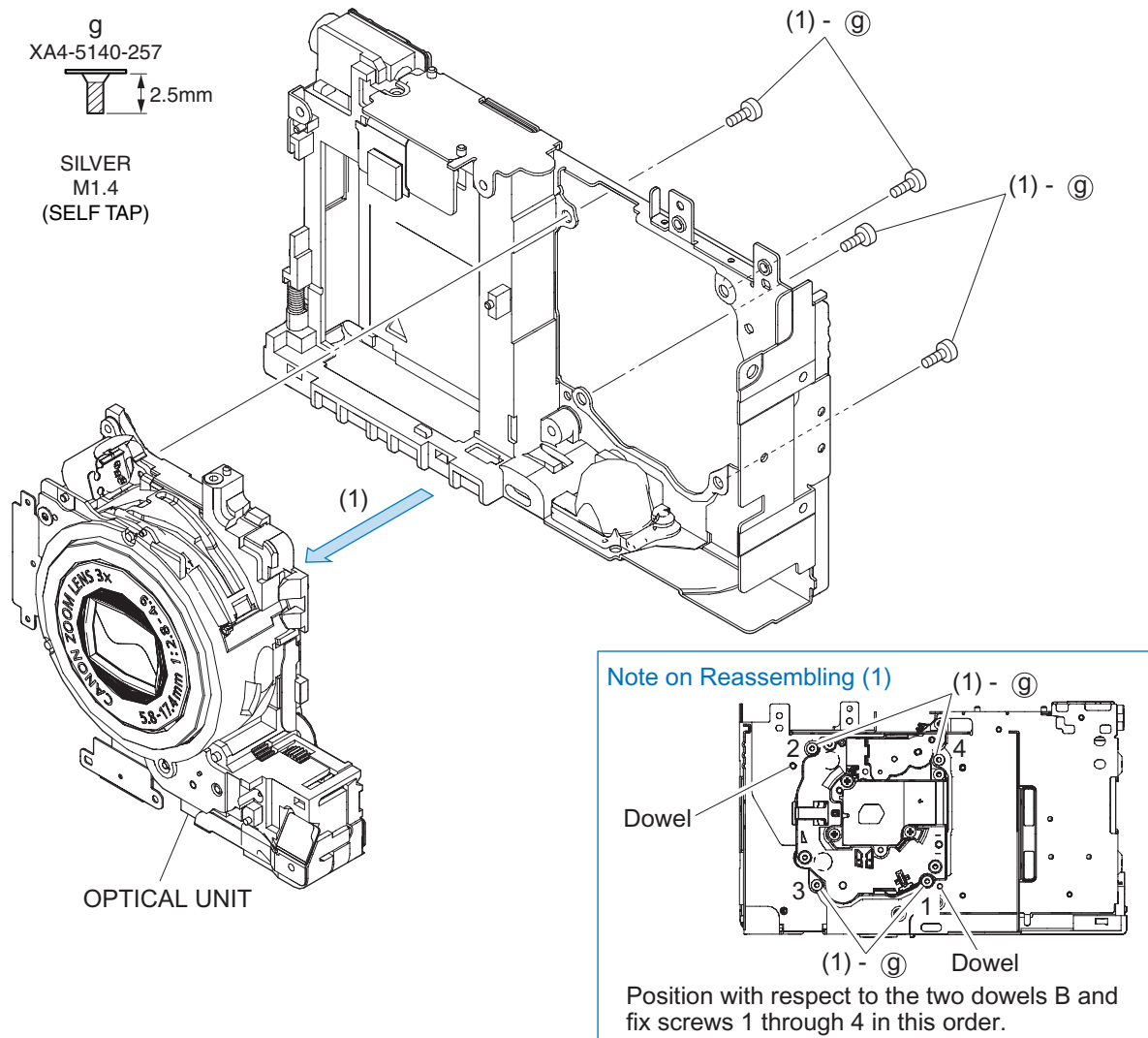


2.11 Separation of OPTICAL UNIT

(1) Remove four screws (g × 4) and then detach the OPTICAL UNIT.

<Note on Reassembling>

(1) Attach the OPTICAL UNIT as shown in the figure below.

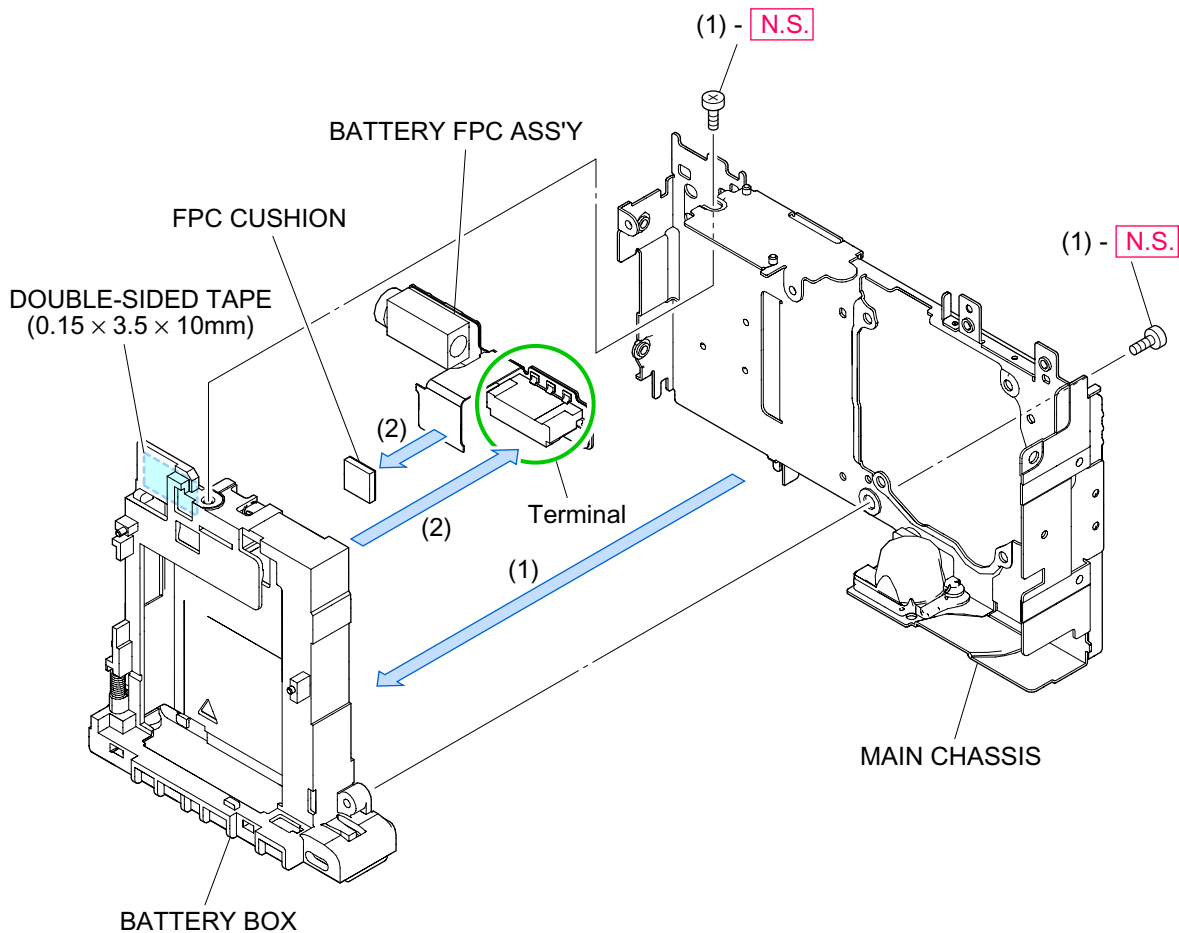


2.12 Disassembly of MAIN CHASSIS UNIT

(1) Remove two screws (N.S. × 2), and then detach the BATTERY BOX section.

(2) Peel off the DOUBLE-SIDED TAPE (0.15 × 3.5 × 10mm), and then detach the BATTERY FPC ASS'Y and BATTERY FPC CUSHION.

Note: Be careful not to damage the terminal of the BATTERY FPC ASS'Y.



N.S. : N.S. Stands for No Stock

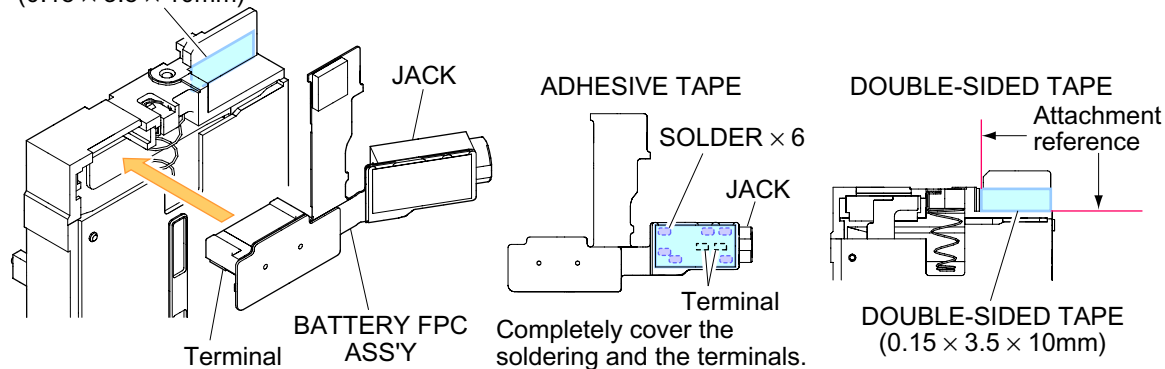
<Note on Reassembling>

(1) Attach the BATTERY FPC ASS'Y, ADHESIVE TAPE and DOUBLE-SIDED TAPE as shown in the figure below.

(2) Attach the BATTERY BOX and BATTERY FPC ASS'Y as shown in the figure below.

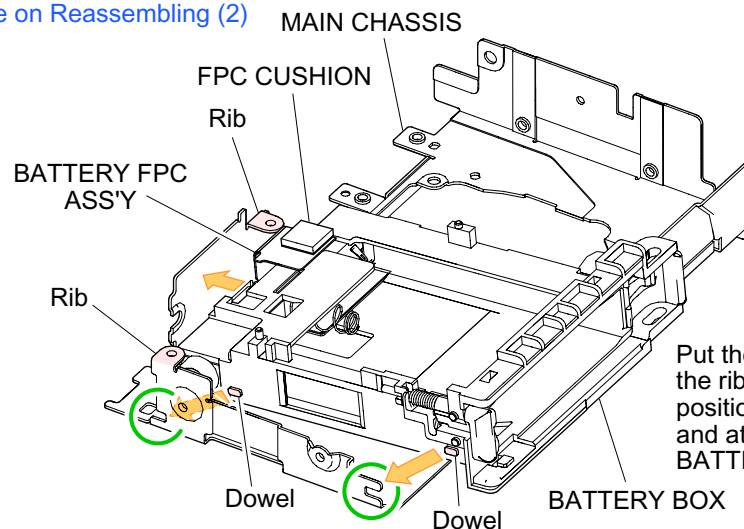
Note on Reassembling (1)

DOUBLE-SIDED TAPE
($0.15 \times 3.5 \times 10\text{mm}$)



Insert its terminal section and then its JACK section, and then attach the BATTERY FPC ASS'Y with double-sided tape.

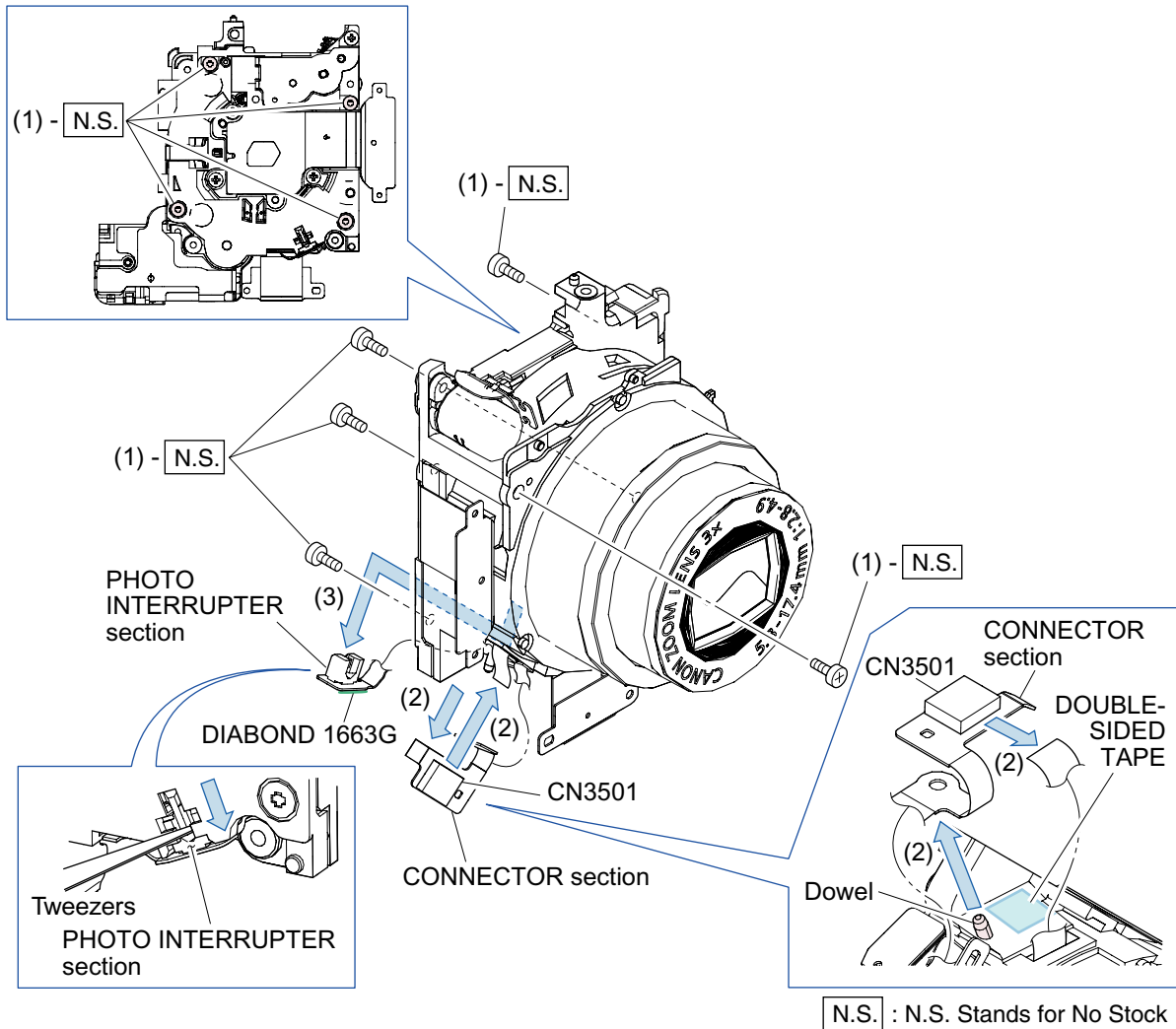
Note on Reassembling (2)



Put the BATTERY FPC ASS'Y below the rib of the MAIN CHASSIS, and position with respect to the two dowels and attach the BATTERY BOX and BATTERY FPC ASS'Y.

2.13 Disassembly of OPTICAL UNIT

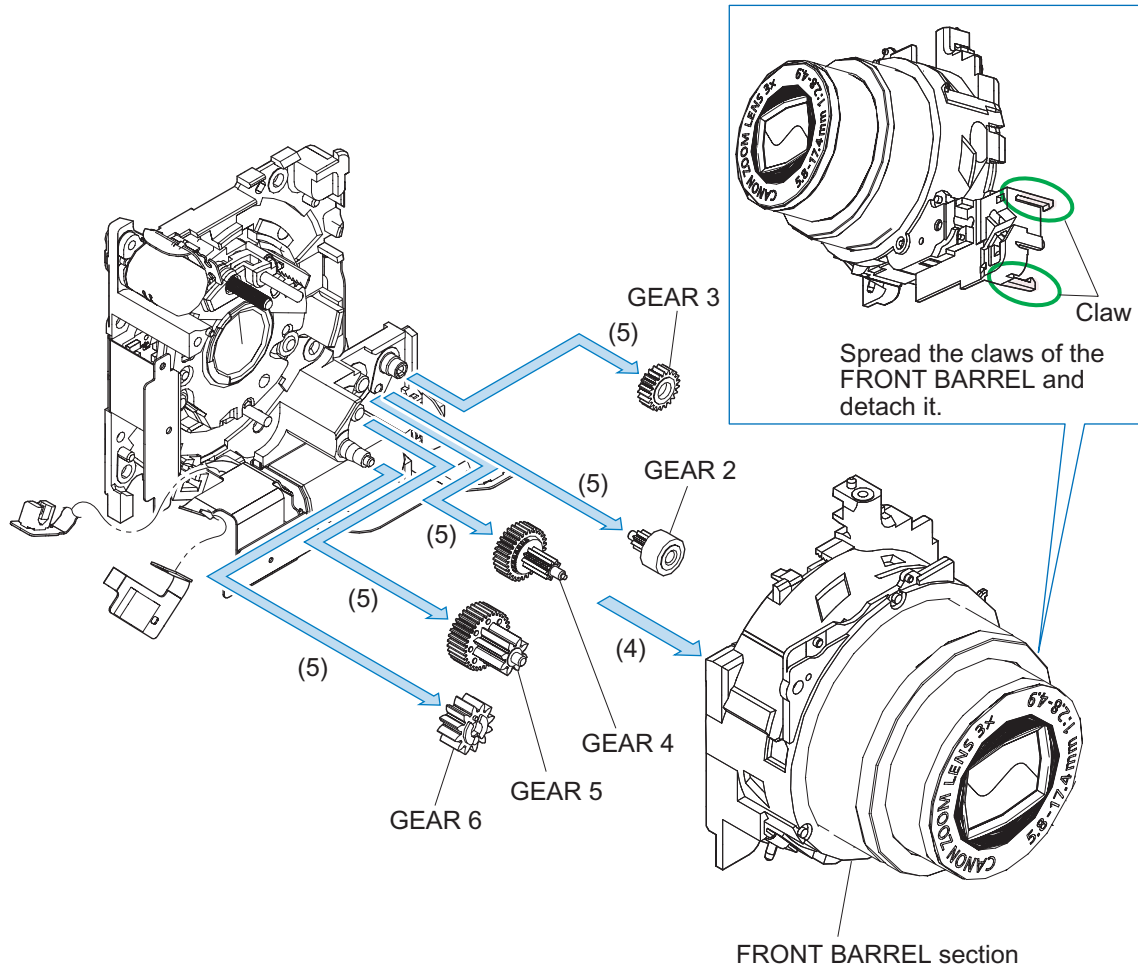
- (1) Remove five screws (N.S. × 5).
- (2) Disconnect the CN3501, disengage the dowel, and peel off the DOUBLE-SIDED TAPE, and then detach the OPTICAL FPC's CONNECTOR section.
- (3) Remove the DIABOND, and then OPTICAL FPC's PHOTO INTERRUPTER section.



(4) Disengage two claws, detach the FRONT BARREL section.

(5) Detach the GEARS 6, 5, 2, 4 and 3.

Note: Use your fingers or an air pin to detach/attach the GEARS.

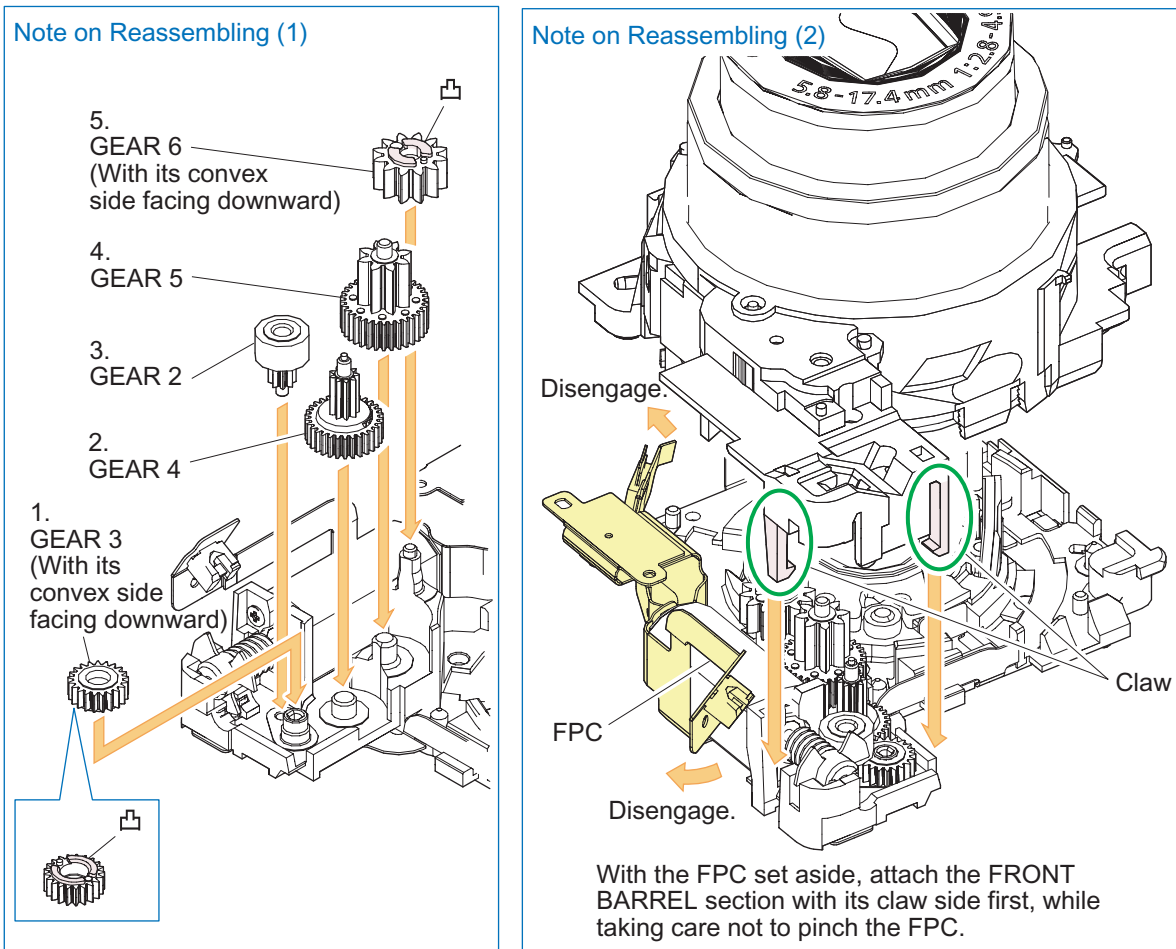


<Note on Reassembling>

(1) Attach the GEARS in the direction shown in the figure in the order shown.

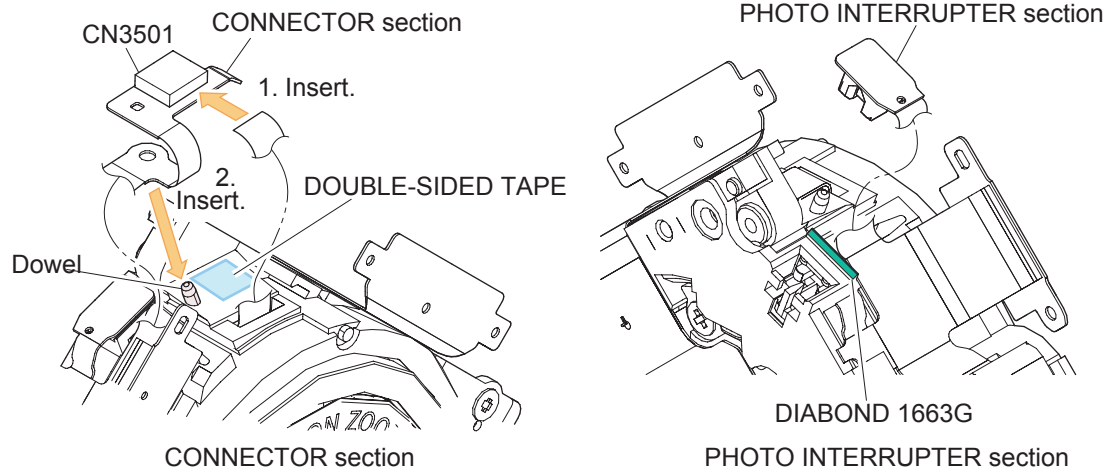
Note: When replacing a GEAR, replace the five GEARS as a set.

(2) Attach the FRONT BARREL section with its claw side first.



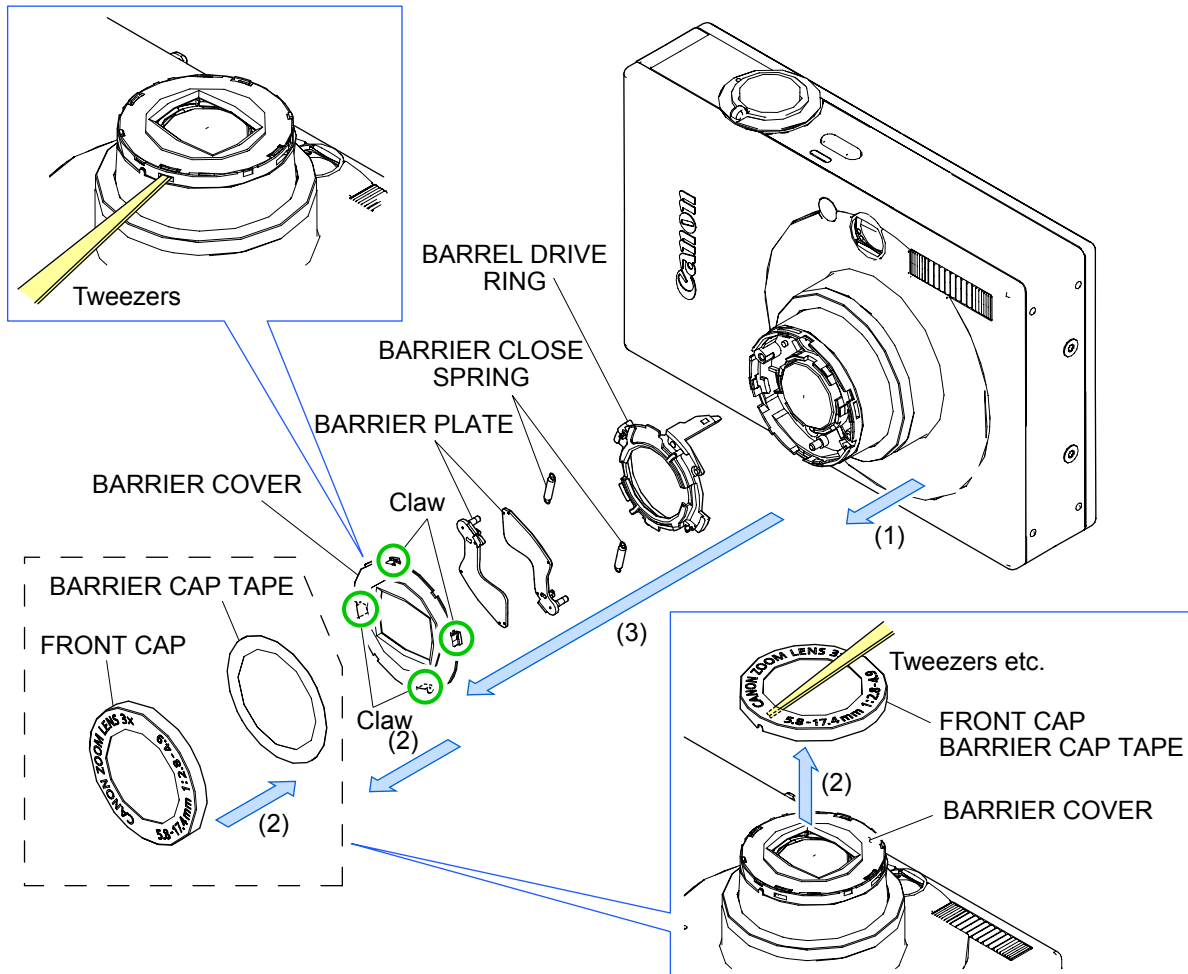
(3) Attach the PHOTO INTERRUPTER section and CONNECTOR section as shown in the figure below.

Note on Reassembling (3)



2.14 Disassembly of BARRIER COVER

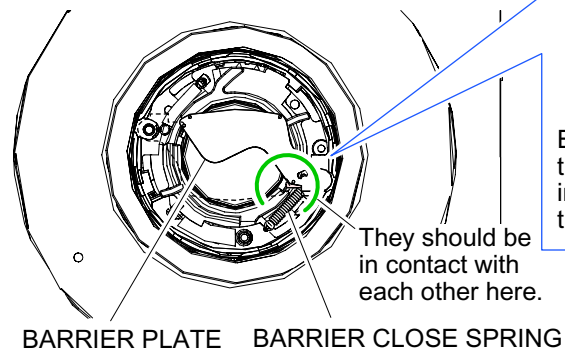
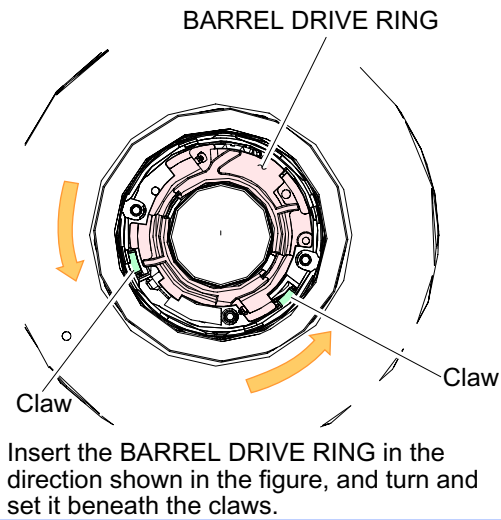
- (1) Extend the lens barrel.
- (2) Drip alcohol into the gap between the FRONT CAP and the BARRIER COVER with the tweezers, remove the BARRIER CAP TAPE, and remove the FRONT CAP.
Note: Be careful not to damage the FRONT CAP.
- (3) Disengage four claws, and then detach the BARRIER COVER, BARRIER PLATE, BARRIER CLOSE SPRING and BARREL DRIVE RING.



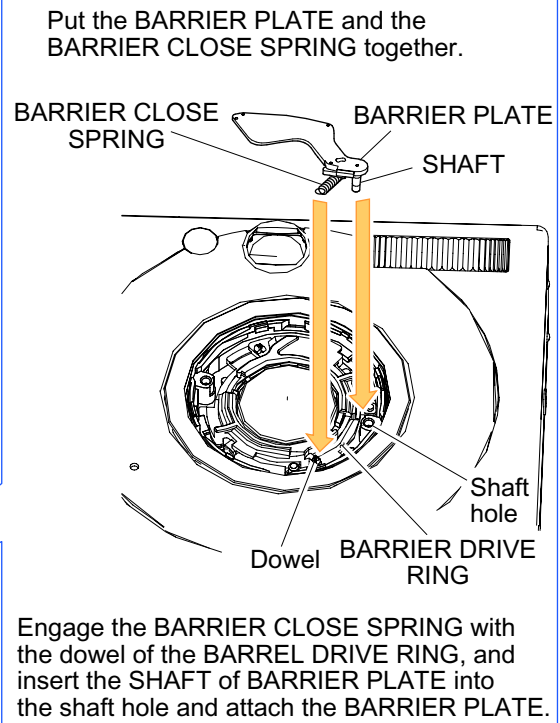
<Note on Reassembling>

- (1) Retract the lens barrel and attach the BARREL DRIVE RING as shown in the figure.
- (2) Attach the BARREL PLATE and BARRIER CLOSE SPRING as shown in the figure below.

Note on Reassembling (1)



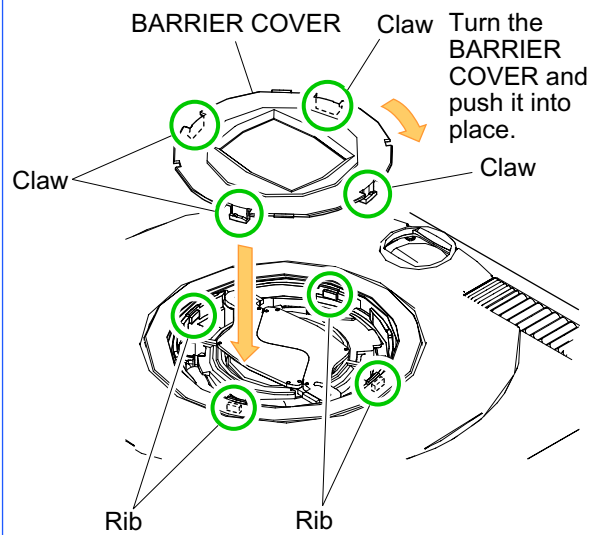
Note on Reassembling (2)



(3) Attach the BARRIER COVER as shown in the figure below.

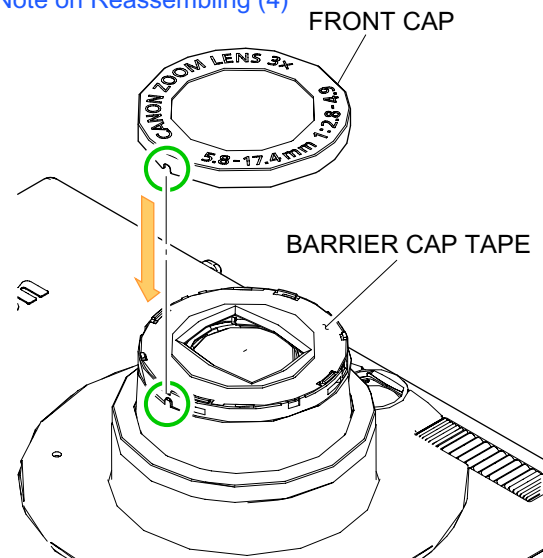
(4) Extend the lens barrel and attach the FRONT CAP and the BARRIER CAP TAPE to it as shown in the figure.

Note on Reassembling (3)




Push the claws of the BARRIER COVER in beneath the ribs to attach the BARRIER COVER.


Note on Reassembling (4)





Position with respect to the dowel and attach the FRONT CAP.


2.15 List of Screws


a
CD3-8241-000

BLACK
M1.7


a
CD3-8242-000

SILVER
M1.7


b
CD3-7893-000

BLACK
M1.7


b
CD3-7894-000

SILVER
M1.7

c
CD3-3325-000

SILVER
M1.7

d
XA1-7170-257

SILVER
M1.7

e
XA4-5170-257

SILVER
M1.7
(SELF TAP)

f
XA4-9140-307

SILVER
M1.4
(SELF TAP)

g
XA4-5140-257

SILVER
M1.4
(SELF TAP)

ADJUSTMENT

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1. Replacement Parts and Adjustment Items

PowerShot SD750/1000 and DIGITAL IXUS 75/70 requires electrical adjustments when certain parts are replaced.

The table below indicates the adjustments required for the respective part replacements.

For all other parts not listed below, no electrical adjustments are necessary after replacement.

Adjustment Items Replacement Part	Optical Unit Adjustment	CCD Adjustment	Shading Adjustment	Imaging Process Adjustment	Color Adjustment	Pixel Dot Adjustment	LCD Adjustment	Flash Adjustment
OPTICAL UNIT	● #1	● #2	● #3	● #4	● #5	● #6		● #7
FLASH UNIT								●
MAIN PCB ASS Y	○	○	○	○	○	○	○	○
LCD UNIT							○	

● : Adjustment is necessary after replacement.

○ : Adjustment is necessary after replacement.

(Adjustment is not necessary, only if the adjustment data has been saved and then transferred after the part is replaced.)

Blank : Adjustment is unnecessary.

* When OPTICAL UNIT is replaced, adjust certainly at the procedure as below.

#1. Optical Unit Adjustment

#2. CCD Adjustment

#3. Shading Adjustment

#4. Imaging Process Adjustment

#5. Color Adjustment

#6. Pixel Dot Adjustment

#7. Flash Adjustment

2. Adjustment Tools

The following tools are required for electrical adjustment.

DESCRIPTION	PARTS NO.	REMARKS
PC/AT-Compatible Machine (Windows 2000 pre-installed Model, USB port)	—	Local purchase
SERVICE MANUAL	—	Download
ADJUSTMENT SOFTWARE	—	Download
Compact Power Adapter CA-DC10	—	Enclosed in "AC Adapter Kit ACK-DC10"
AC Cable	—	Enclosed in "AC Adapter Kit ACK-DC10"
DC Coupler DR-10	—	Enclosed in "AC Adapter Kit ACK-DC10"
INTERFACE CABLE IFC-400PCU	—	Enclosed in Merchandise
Brightness Box	CY9-1566-100/200 ^{*2}	
Color Viewer (5500°K)	CY9-1562-100/200 ^{*2}	
Color Bar Chart	DY9-2002-000	
18% Gray Chart	CY9-1563-000	
AF Chart (1)	CY9-1583-000	^{*3}
Infinity Collimator	CY9-1569-100/200 ^{*2}	
W-10 Filter ^{*1}	CY9-1556-000	
C-12 Filter	CY9-1555-000	
FL-W Filter	CY9-1557-000	
ND-4 Filter	CY9-1553-000	
Light-Shielding Cloth (500 x 500 mm or larger)	—	Local purchase
Tripod	—	Local purchase
Reference Camera	—	Merchandise
DIGITAL CAMERA SolutionDisk	—	Enclosed in Merchandise

^{*1} 2pcs. required.

^{*2} -100 : 100~120V, -200 : 200~240V

^{*3} The file containing "How to print out" and Chart for print-out is in folder of the Adjustment Software.

3. Before Starting Electrical Adjustments

3.1 TWAIN Driver Installation

Install the USB Driver for Adjustment in the CD-ROM to PC.

("This Adjustment Software" is impossible when the RS-232C TWAIN driver is used.)

3.2 Canon DCP Connect Installation

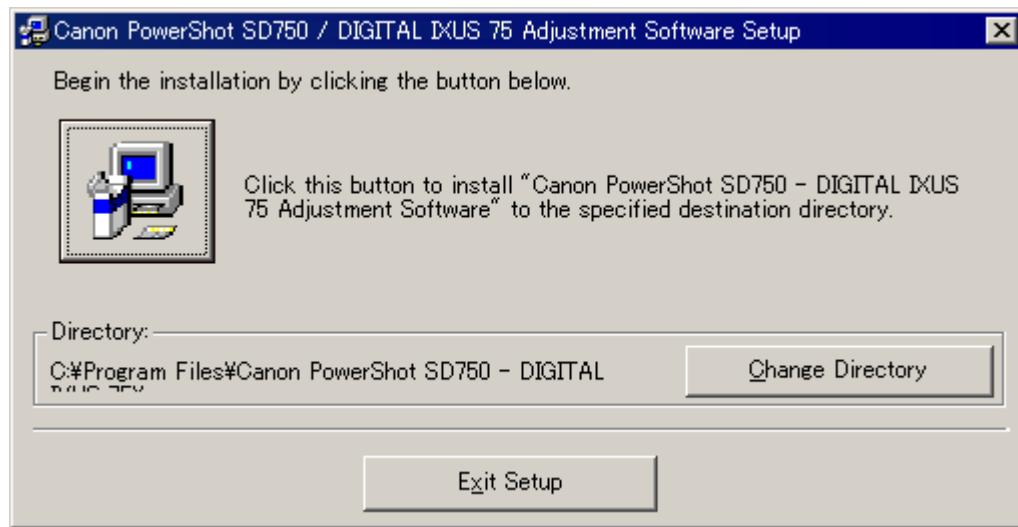
After downloading and extracting Adjustment Software, double-click Setup.exe (\Canon DCP Connect\Setup.exe) to install it.

3.3 Adjustment Software Installation

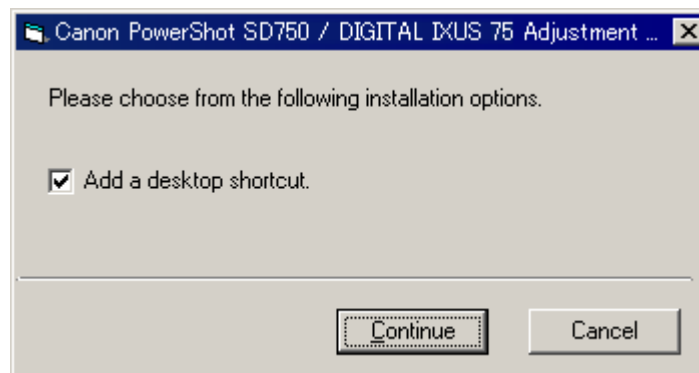
1. After downloading and extracting Adjustment Software, double-click Setup.exe to install it.
(Adjustment Softwares are different according to the model of camera that you are going to adjust.)
2. When the dialog box below appears, click the "OK" button.



3. When the dialog box below appears, click the  button. (Software installation will then begin.)



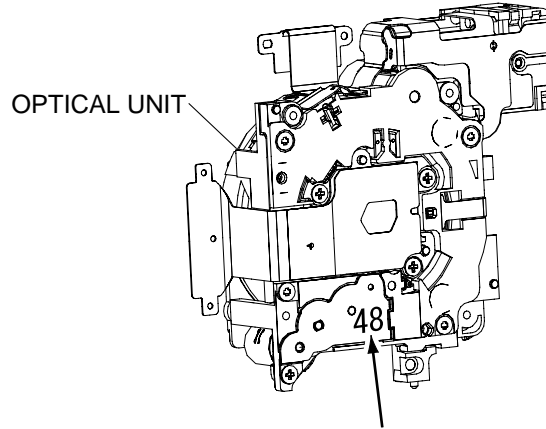
4. When the dialog box below appears, click the "Continue" button.
(In the case that you do not add a shortcut on desktop, remove clicking from the check box.)



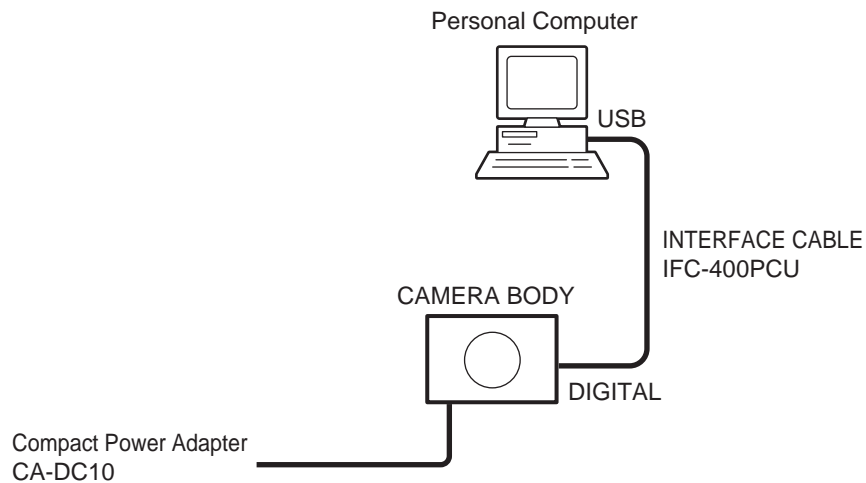
3.4 Preparation

Before starting up the Adjustment Software, follow the preparatory steps below:

1. Obtain all the tools necessary for the adjustment.
2. For the Optical Unit Adjustment jot down the data written on the optical Unit.
You will need it later.



3. Connect the Camera to the Power Source with the AC Adapter Kit ACK-DC10 (CA-DC10, AC Cable & DR-10).
4. Set the Replay Mode on the camera.
5. Connect the Camera's Digital terminal to the PC's USB Port with INTERFACE CABLE IFC-400 PCU.



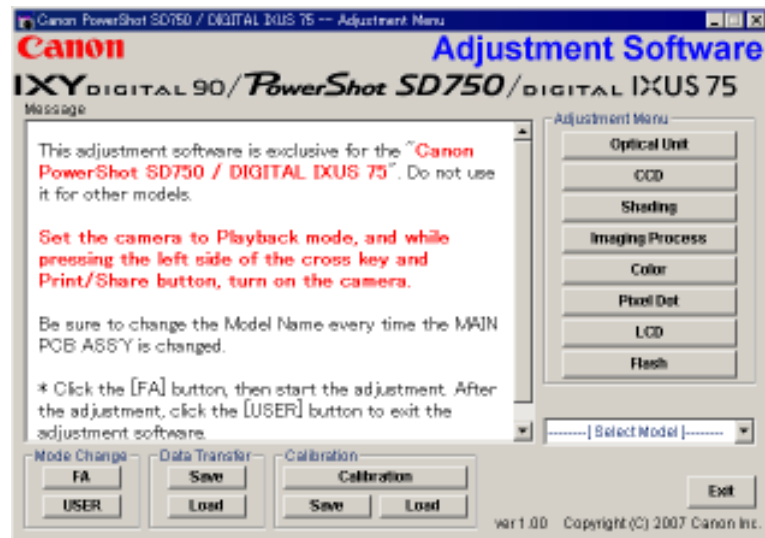
6. Turn on the camera while pressing the left side of the cross key and the Print/Share button.
Note: Perform the preparation in the following order otherwise the camera won't work properly.

3.5 Starting up the Adjustment Software

After completing the preparatory steps, click Start and move the cursor to Program; then select Canon Digital Camera Adjustment and click Canon PowerShot SD750/1000 and DIGITAL IXUS 75/70 Adjustment.

3.6 Menu Window

When the Adjustment Software starts up, the Menu Window below will appear.



3.7 How to Use the Adjustment Software

■ Start-up of Camera Watch

This camera requires Camera Watch for the communication with PC. Start up Camera Watch by selecting Start > Program > Canon Utilities > Camera DCP connect > Camera Watch.

■ Mode change

This camera uses normally PTP for communication with PC. Because calibration and adjustment become impossible depending on the condition of PTP, select the TWAIN mode of the PTP before starting calibration and adjustment.

- "FA" button: This button is used to change the mode from the USER mode to the FA mode.
(PTP to TWAIN)

* Before starting calibration and adjustment, be sure to set the FA mode.

- "USER" button: This button is used to change the mode from the FA mode to the USER mode.
(TWAIN to PTP)

* When calibration and adjustment are completed, be sure to change the mode to the USER mode before quitting the software.

■ Model Name Change <Select Model>

Model Name can be changed. Language, Date Style and Video Type are also changed to initial settings that are compatible with Model Name.

* Be sure to change Model Name every time MAIN PCB ASS'Y is changed.

■ Adjustment Menu/Calibration

For starting, click the button related with calibration/adjustment.

* Whenever you use your light source for the adjustment for the first time, be sure to click the "Calibration" Button.

■ Quitting the Adjustment Software

Click the "Exit" button.

■ Camera Data Saving and Loading <Data Transfer>

- "Save" button : This button saves all adjustment data stored on the camera in text format.
- "Load" button : This button loads all adjustment data saved in text format to the camera.

■ Calibration Data Saving and Loading <Calibration>

- "Save" button : This button saves the calibration data.
- "Load" button : This button loads the saved calibration data to the adjustment software and reflects it.

■ Notes

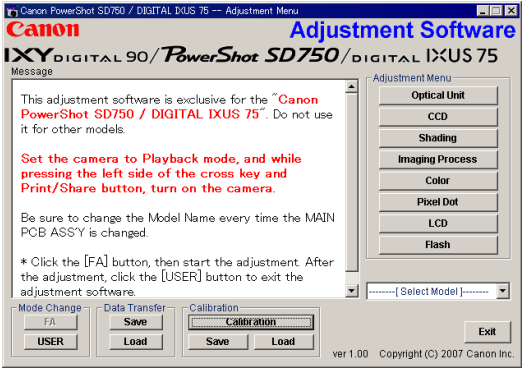
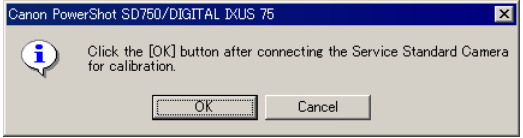
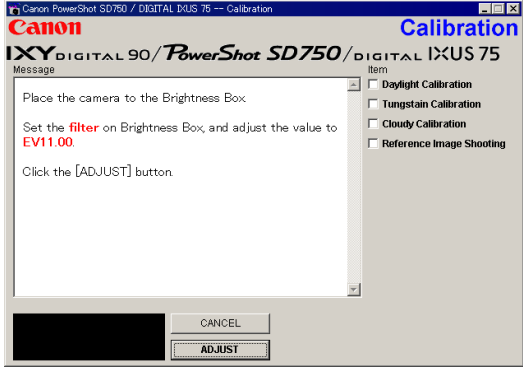
- If the adjustment fails, a message indicating the failure will appear on each product. If this happens, do the adjustment again.
- The Adjustment Software is dedicated only to Canon Digital Camera PowerShot SD750/1000 and DIGITAL IXUS 75/70. Never use it for any other camera.
- The Windows2000 must be pre-installed on the computer that is equipped with the USB terminal.
- * Operations on the other Operating Systems such as Windows95, 98, Windows XP and others are not guaranteed.

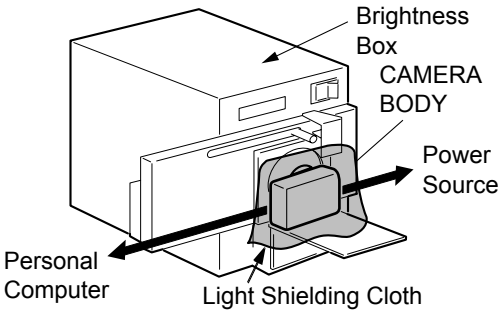
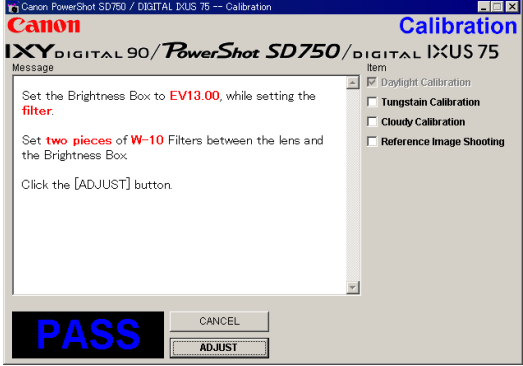
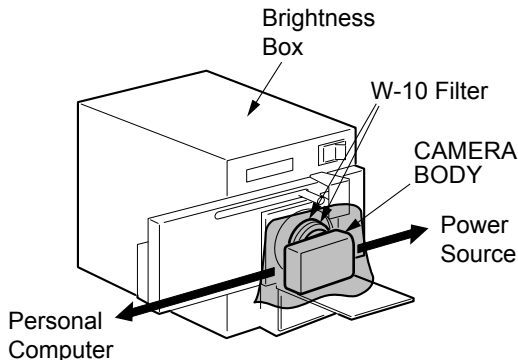
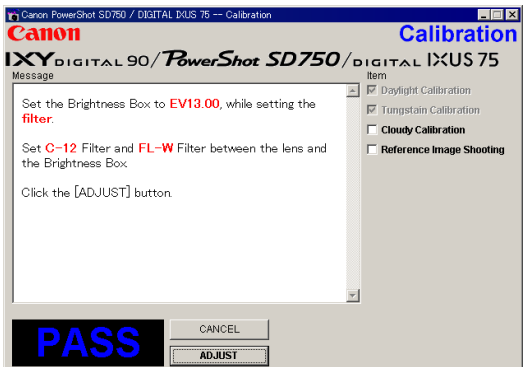
4. Calibration

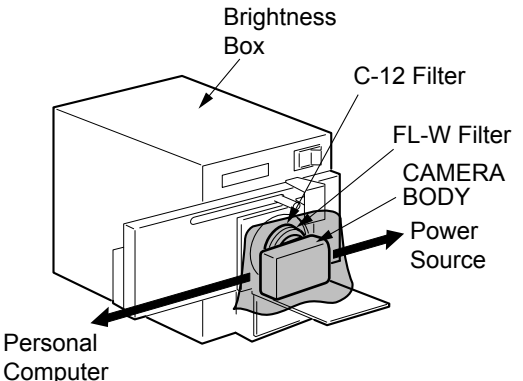
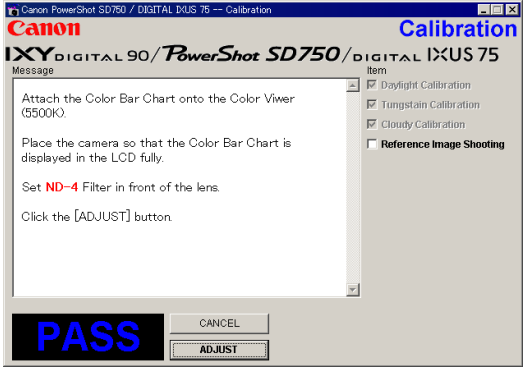
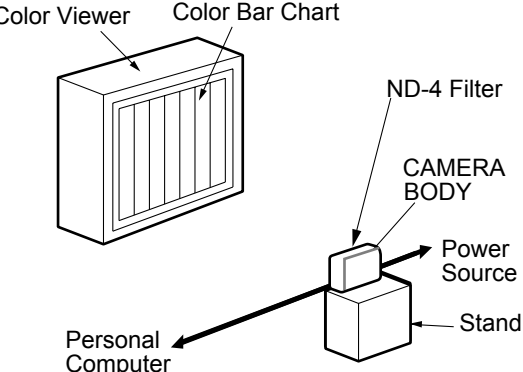

4.1 Calibration

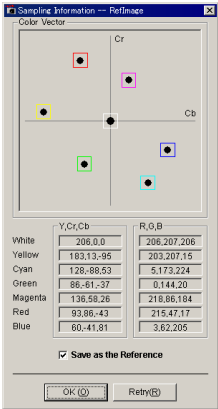
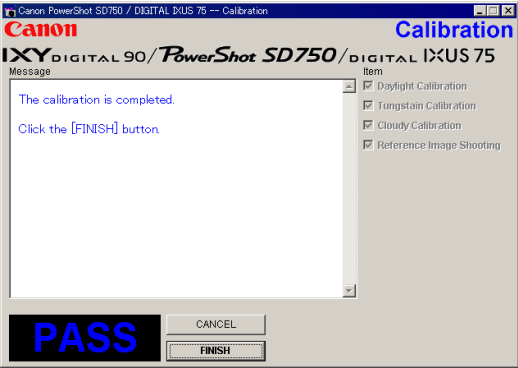
■ Tools Used

- Personal Computer
- SERVICE MANUAL
- ADJUSTMENT SOFTWARE
- Compact Power Adapter CA-DC10
- AC Cable
- DC Coupler DR-10
- INTERFACE CABLE IFC-400PCU
- Brightness Box
- Color Viewer (5500°K)
- Color Bar Chart
- W-10 Filter (2pcs.)
- C-12 Filter
- FL-W Filter
- ND-4 Filter
- Light-Shielding Cloth
- Reference Camera
- DIGITAL CAMERA SolutionDisk

1	Click the "Calibration" button.	
2	1. When the message on the right appears, check that the reference camera (Merchandise) is connected to the computer. 2. Click the "OK" button.	
3	When the message on the right appears, go to 4.	

4	<ol style="list-style-type: none"> 1. Set the filter of the Brightness Box and place the camera so that lens is set against the light source surface of the Brightness Box. 2. Put the light-Shielding Cloth so that light except the Brightness Box does not come in. 3. Set the Brightness Box to the value displayed on the message. 4. Click the "ADJUST" button. 	
5	When the message on the right appears, go to 6.	
6	<ol style="list-style-type: none"> 1. Place the camera so that lens is set against the light source surface of the Brightness Box via the two W-10 Filters. 2. Put the light-Shielding Cloth so that light except the Brightness Box does not come in. 3. Set the Brightness Box to the value displayed on the message. 4. Click the "ADJUST" button. 	
7	When the message on the right appears, go to 8.	

8	<ol style="list-style-type: none"> 1. Remove the two W-10 Filters. 2. Place the camera so that lens is set against the light source surface of the Brightness Box via the C-12 and FL-W Filter. 3. Put the light-Shielding Cloth so that light except the Brightness Box does not come in. 4. Set the Brightness Box to the value displayed on the message. 5. Click the "ADJUST" button. 	
9	<p>When the message on the right appears, go to 10.</p>	
10	<ol style="list-style-type: none"> 1. Attach the Color Bar Chart to the Color Viewer. 2. Place the camera so that the Viewing image of the color bar chart is the full of LCD with the ND-4 Filter attached. 3. Click the "ADJUST" button. 	
11	<ol style="list-style-type: none"> 1. Shift a frame on the displayed screen with a mouse to choose a color of color bar. 2. Click the "Sampling" button. 	

12	Check "Save as the Reference" and click the "OK" button to store the data.	
13	When the message on the right appears, click the "FINISH" button. (This ends the "Calibration" Adjustment.)	

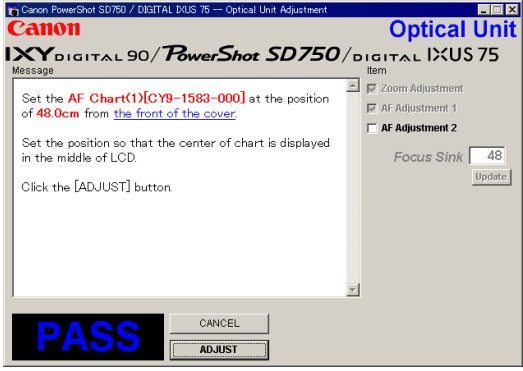
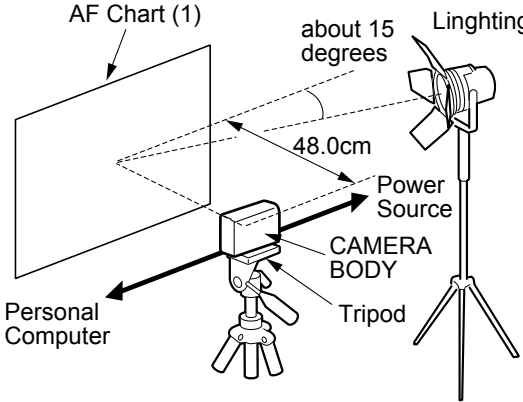
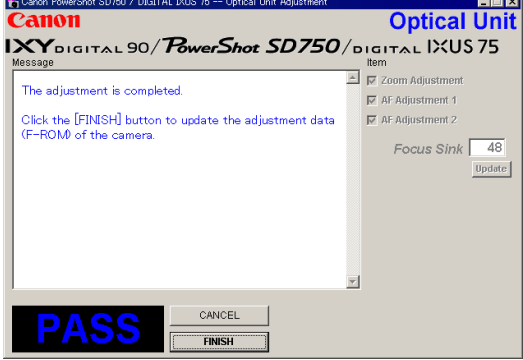
5. Adjustment Procedure

5.1 Optical Unit Adjustment

■ Tools Used

- Personal Computer
- SERVICE MANUAL
- ADJUSTMENT SOFTWARE
- Compact Power Adapter CA-DC10
- AC Cable
- DC Coupler DR-10
- INTERFACE CABLE IFC-400PCU
- AF Chart (1)
- Infinity Colimator
- Tripod
- DIGITAL CAMERA SolutionDisk

1	Click the "Optical Unit" button.	
2	When the message on the right appears, enter the value written on the Optical Unit Flex in the Focus Sink text box, and then click the "Update" button. After the update is complete, proceed to step 3.	
3	<ol style="list-style-type: none"> 1. Place the camera at the infinity collimator. 2. Adjust the position of the camera finely so that the center of the Auto Focus Chart is aligned with the center of the LCD. 3. Click the "ADJUST" button. 	

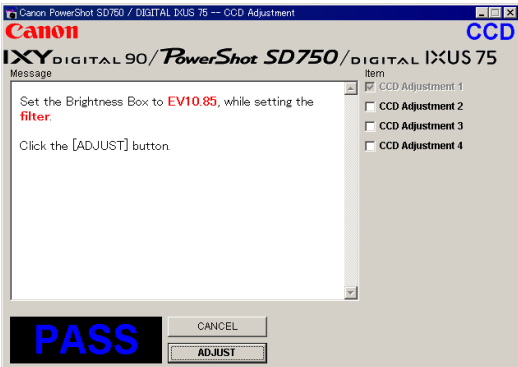
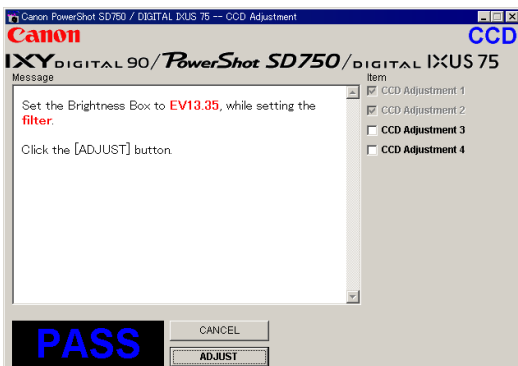
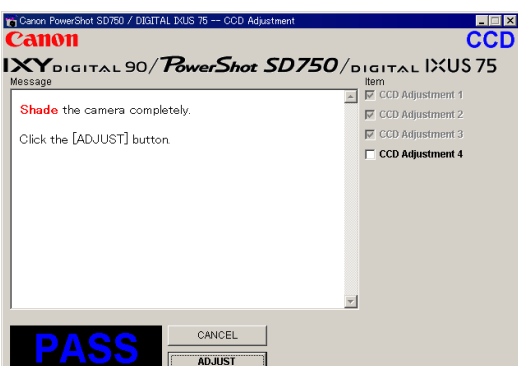
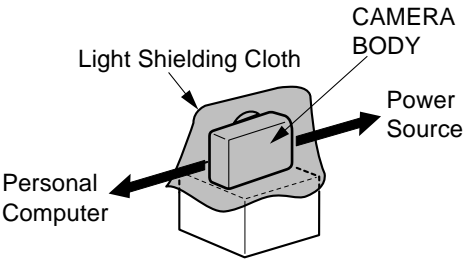
4	When the message on the right appears, go to 5.	
5	<ol style="list-style-type: none"> 1. Set the AF Chart (1) (CY9-1583-000) at 48.0cm away from the front of the cover. * Set the AF Chart (1) (CY9-1583-000) on a plain color wall or equivalent. * Adjust the light so that the brightness of the chart will be about EV9.0. The ray of the light should come in at a narrow angle as seen from the chart. 2. Adjust the position of the camera finely so that the center of the AF Chart (1) (CY9-1583-000) is aligned with the center of the LCD. 3. Click the "ADJUST" button. 	
6	When the message on the right appears, click the "FINISH" button. (This ends the "Optical Unit" Adjustment.)	

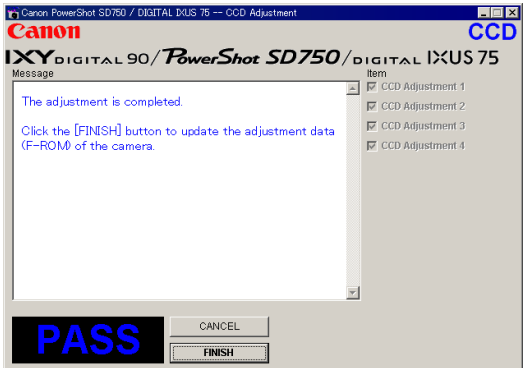
5.2 CCD Adjustment

■ Tools Used

- Personal Computer
- SERVICE MANUAL
- ADJUSTMENT SOFTWARE
- Compact Power Adapter CA-DC10
- AC Cable
- DC Coupler DR-10
- INTERFACE CABLE
- IFC-400PCU
- Brightness box
- Light-Shielding Cloth
- DIGITAL CAMERA SolutionDisk

1	Click the "CCD" button.	
2	When the message on the right appears, go to 3.	
3	<ol style="list-style-type: none"> 1. Set the filter of the Brightness Box and place the camera so that lens is set against the light source surface of the Brightness Box. 2. Put the light-Shielding Cloth so that light except the Brightness Box does not come in. 3. Set the Brightness Box to the value displayed on the message. 4. Click the "ADJUST" button. <p>* When the adjustment does not work, click the "Default" button.</p>	

4	<ol style="list-style-type: none"> 1. When the message on the right appears, set to the displayed value. 2. Click the "Adjust" button. 	
5	<ol style="list-style-type: none"> 1. When the message on the right appears, set to the displayed value. 2. Click the "Adjust" button. 	
6	<p>When the message on the right appears, go to 7.</p>	
7	<ol style="list-style-type: none"> 1. Cover the camera with the Light-Shielding Cloth so that the no light reasons the CCD. 2. Click the "Adjust" button. 	

8	<p>When the message on the right appears, click the "FINISH" button. (This ends the "CCD" Adjustment.)</p>	
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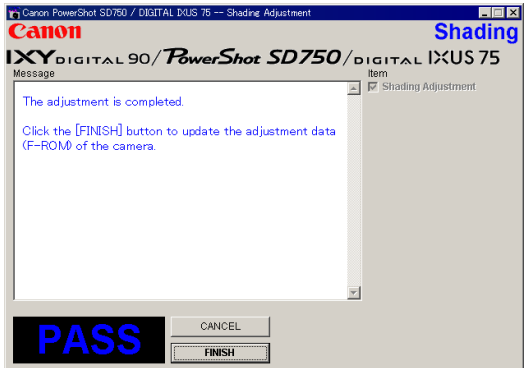
5.3 Shading Adjustment

- Tools Used
- Personal Computer
 - SERVICE MANUAL
 - ADJUSTMENT SOFTWARE
 - Compact Power Adapter CA-DC10

- AC Cable
 - DC Coupler DR-10
 - INTERFACE CABLE
 - IFC-400PCU

- Brightness Box
 - Light-Shielding Cloth
 - DIGITAL CAMERA SolutionDisk

1	Click the "Shading" button.	
2	When the message on the right appears, go to 3.	
3	<div>1. Do not set the filter of the Brightness Box and place the camera so that lens is set about 3mm interval from the light source surface of the Brightness Box.</div> <div>2. Put the light-Shielding Cloth so that light except the Brightness Box does not come in.</div> <div>3. Set the Brightness Box to the value displayed on the message.</div> <div>4. Click the "ADJUST" button.</div>	

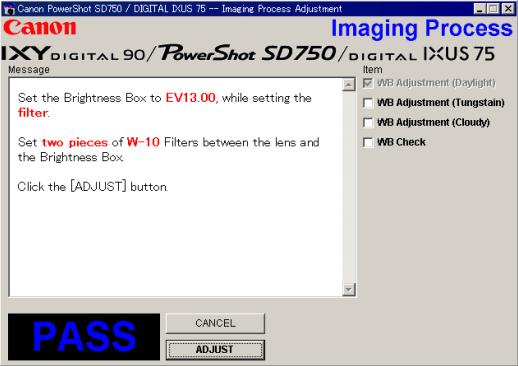
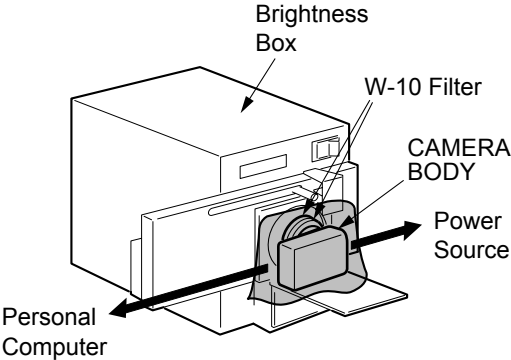
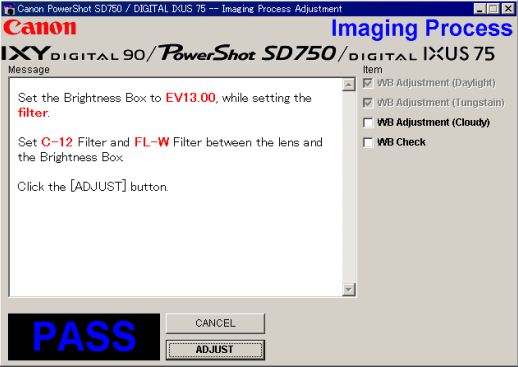
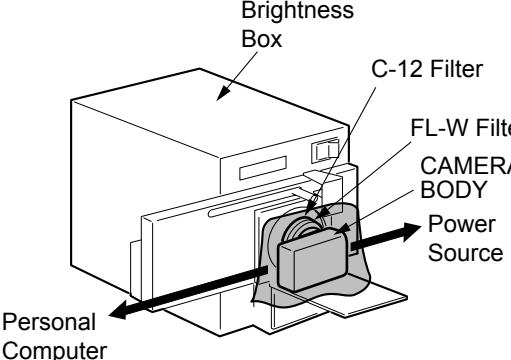
4	<p>When the message on the right appears, click the "FINISH" button. (This ends the "Shading" Adjustment.)</p>	 <p>The screenshot shows a software window titled "Canon PowerShot SD750 / DIGITAL ELUS 75 -- Shading Adjustment". The window has a blue header bar with the Canon logo on the left and the word "Shading" in blue on the right. Below the header, the text "IXY DIGITAL 90 / PowerShot SD750 / DIGITAL ELUS 75" is displayed. The main area is divided into two panes: the left pane is labeled "Message" and contains the text "The adjustment is completed." followed by "Click the [FINISH] button to update the adjustment data (F-ROM) of the camera."; the right pane is labeled "Item" and contains "Shading Adjustment". At the bottom of the window, there is a large blue button labeled "PASS" and two smaller buttons labeled "CANCEL" and "FINISH".</p>
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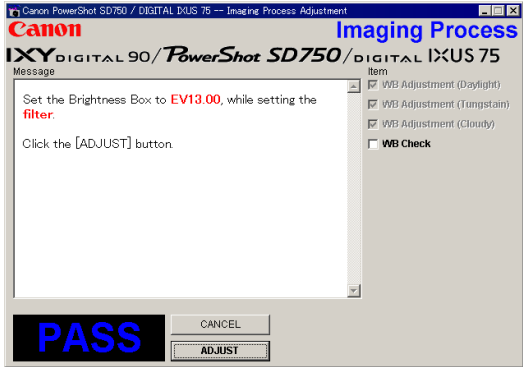
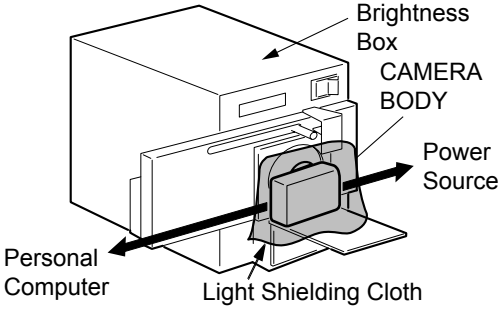
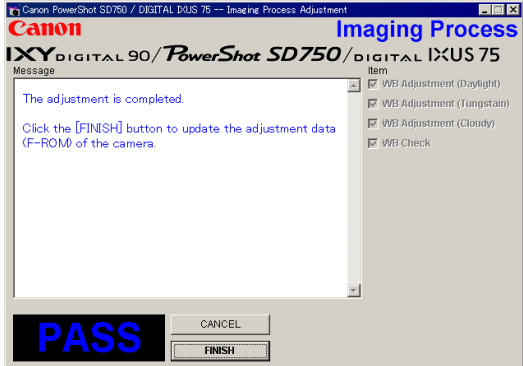
5.4 Imaging Process Adjustment

■ Tools Used

- Personal Computer
- SERVICE MANUAL
- ADJUSTMENT SOFTWARE
- Compact Power Adapter CA-DC10
- AC Cable
- DC Coupler DR-10
- INTERFACE CABLE IFC-400PCU
- Brightness Box
- W-10 Filter (2pcs.)
- C-12 Filter
- FL-W Filter
- Light-Shielding Cloth
- DIGITAL CAMERA SolutionDisk

1	Click the "Imaging Process" button.	
2	When the message on the right appears, go to 3.	
3	<ol style="list-style-type: none"> 1. Set the filter of the Brightness Box and place the camera so that lens is set against the light source surface of the Brightness Box. 2. Put the light-Shielding Cloth so that light except the Brightness Box does not come in. 3. Set the Brightness Box to the value displayed on the message. 4. Click the "ADJUST" button. 	

4	When the message on the right appears, go to 5.	
5	<ol style="list-style-type: none"> 1. Place the camera so that lens is set against the light source surface of the Brightness Box via the two W-10 Filters. 2. Put the light-Shielding Cloth so that light except the Brightness Box does not come in. 3. Set the Brightness Box to the value displayed on the message. 4. Click the "ADJUST" button. 	
6	When the message on the right appears, go to 7.	
7	<ol style="list-style-type: none"> 1. Remove the two W-10 Filters. 2. Place the camera so that lens is set against the light source surface of the Brightness Box via the C-12 and FL-W Filter. 3. Put the light-Shielding Cloth so that light except the Brightness Box does not come in. 4. Set the Brightness Box to the value displayed on the message. 5. Click the "ADJUST" button. 	

8	When the message on the right appears, go to 9.	
9	<ol style="list-style-type: none"> 1. Remove the C-12 and FL-W Filter. 2. Set the filter of the Brightness Box and place the camera so that lens is set against the light source surface of the Brightness Box. 3. Put the light-Shielding Cloth so that light except the Brightness Box does not come in. 4. Set the Brightness Box to the value displayed on the message. 5. Click the "ADJUST" button. 	
10	<p>When the message on the right appears, click the "FINISH" button.</p> <p>(This ends the "Imaging Process" Adjustment.)</p>	


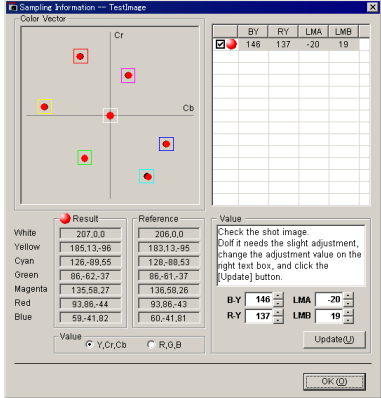
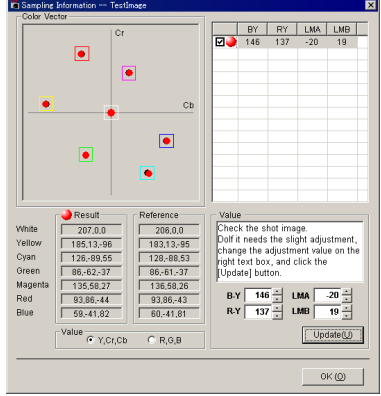
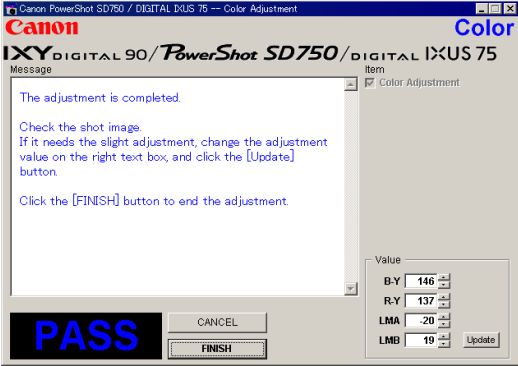
5.5 Color Adjustment

- Tools Used
- Personal Computer
 - SERVICE MANUAL
 - ADJUSTMENT SOFTWARE
 - Compact Power Adapter CA-DC10
 - AC Cable

- DC Coupler DR-10
 - INTERFACE CABLE IFC-400PCU
 - Color Viewer (5500°K)
 - Color Bar Chart

- ND-4 Filter
 - DIGITAL CAMERA SolutionDisk

1	Click the "Color" button.	
2	When the message on the right appears, go to 3.	
3	<div>1. Attach the Color Bar Chart to the Color Viewer.</div> <div>2. Place the camera so that the Viewing image of the color bar chart is the full of LCD with the ND-4 Filter attached.</div> <div>3. Click the "ADJUST" button.</div>	

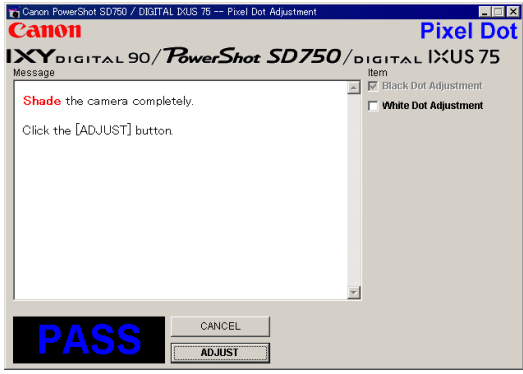
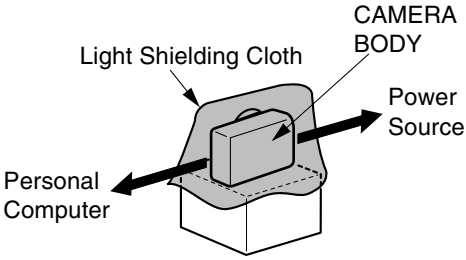
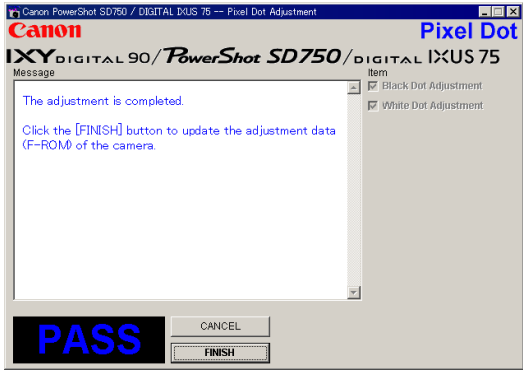
4	<ol style="list-style-type: none"> Shift a frame on the displayed screen with a mouse to choose a color of color bar. Click the "Sampling" button. 	
5	<p>Measure the yellow and red colors, and if they are both within the specifications, click the "OK" button, and then proceed to step 7.</p> <p>* Specification Ave_Cr = Reference Camera \pm 10 Ave_Cb = Reference Camera \pm 10</p>	
6	<ol style="list-style-type: none"> Confirm to see that the image on the PC monitor satisfies the specifications. If the image on the PC monitor does not satisfy the specifications, change the data using UP, DOWN button or change the data directly by typing the data in the text box. Then click the "UPDATE" button. <p>If these data within specifications, click the "OK" button.</p>	
7	<p>When the message on the right appears, click the "FINISH" button. (This ends the "Color" Adjustment.)</p>	

5.6 Pixel Dot Adjustment

■ Tools Used

- Personal Computer
- SERVICE MANUAL
- ADJUSTMENT SOFTWARE
- Compact Power Adapter CA-DC10
- AC Cable
- DC Coupler DR-10
- INTERFACE CABLE IFC-400PCU
- Brightness Box
- Light-Shielding Cloth
- DIGITAL CAMERA SolutionDisk

1	Click the "Pixel Dot" button.	
2	When the message on the right appears, go to 3.	
3	<ol style="list-style-type: none">1. Set the filter of the Brightness Box and place the camera so that lens is set against the light source surface of the Brightness Box.2. Put the light-Shielding Cloth so that light except the Brightness Box does not come in.3. Set the Brightness Box to the value displayed on the message.4. Click the "ADJUST" button.	

4	When the message on the right appears, go to 5.	
5	<p>1. Cover the camera with the Light-Shielding Cloth so that the no light reaches the CCD.</p> <p>2. Click the "ADJUST" button.</p>	
6	<p>When the message on the right appears, click the "FINISH" button.</p> <p>(This ends the "Pixel Dot" Adjustment.)</p>	

5.7 LCD Adjustment

- Tools Used
- Personal Computer
 - SERVICE MANUAL
 - ADJUSTMENT SOFTWARE
 - Compact Power Adapter CA-DC10

- AC Cable
 - DC Coupler DR-10
 - INTERFACE CABLE IFC-400PCU

- Reference Camera
 - DIGITAL CAMERA SolutionDisk

- Preparation
1. Insert the blank SD Card into the reference camera.

2. Connect the reference camera with the PC.

3. Add the "Gray.jpg" image to the SD Card of the refernce camera using Zoom Browser EX.
(Gray.jpg is in the folder of Adjustment Software downloaded.)

4. Finish the ZoomBrowser EX.

5. Disconnect the reference camera from the PC, and display the "Gray.jpg" image in PLAY mode.

1	Click the "LCD" button.	
2	<div>1. Compare the image with that of the reference camera. If it has a different color tint, adjust it by repeating clicking the Yellow/Blue button and the "Update" button alternately.</div> <div>2. Click the "FINISH" button. (This ends the "CCD" Adjustment.)</div>	

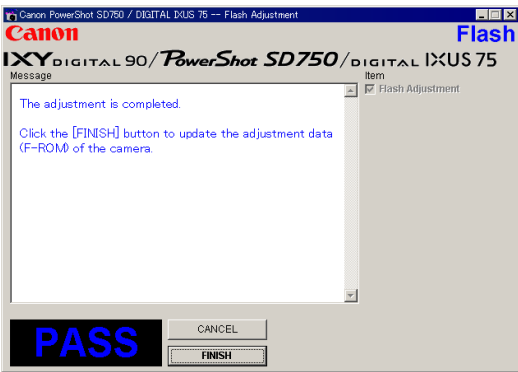
5.8 Flash Adjustment

- Tools Used
- Personal Computer
 - SERVICE MANUAL
 - ADJUSTMENT SOFTWARE
 - Compact Power Adapter CA-DC10

- AC Cable
 - DC Coupler DR-10
 - INTERFACE CABLE
 - IFC-400PCU

- 18% Gray Chart
 - Tripod
 - DIGITAL CAMERA SolutionDisk

1	Click the "Flash" button.	
2	When the message on the right appears, go to 3.	
3	<div>1. Set the 18% Gray Chart at 43.5cm away from the front of the cover.</div> <div>2. Make the room as dark as a darkroom.</div> <div>3. Click the "ADJUST" button.</div>	

4	<p>When the message on the right appears, click the "FINISH" button. (This ends the "Flash" Adjustment.)</p>	
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5.9 Checking of sound recording/output

It is not required to adjust the recording/output (volume, etc.) of sound.

Check the camera if the sound is recorded/play-backed properly.

DIAGRAMS

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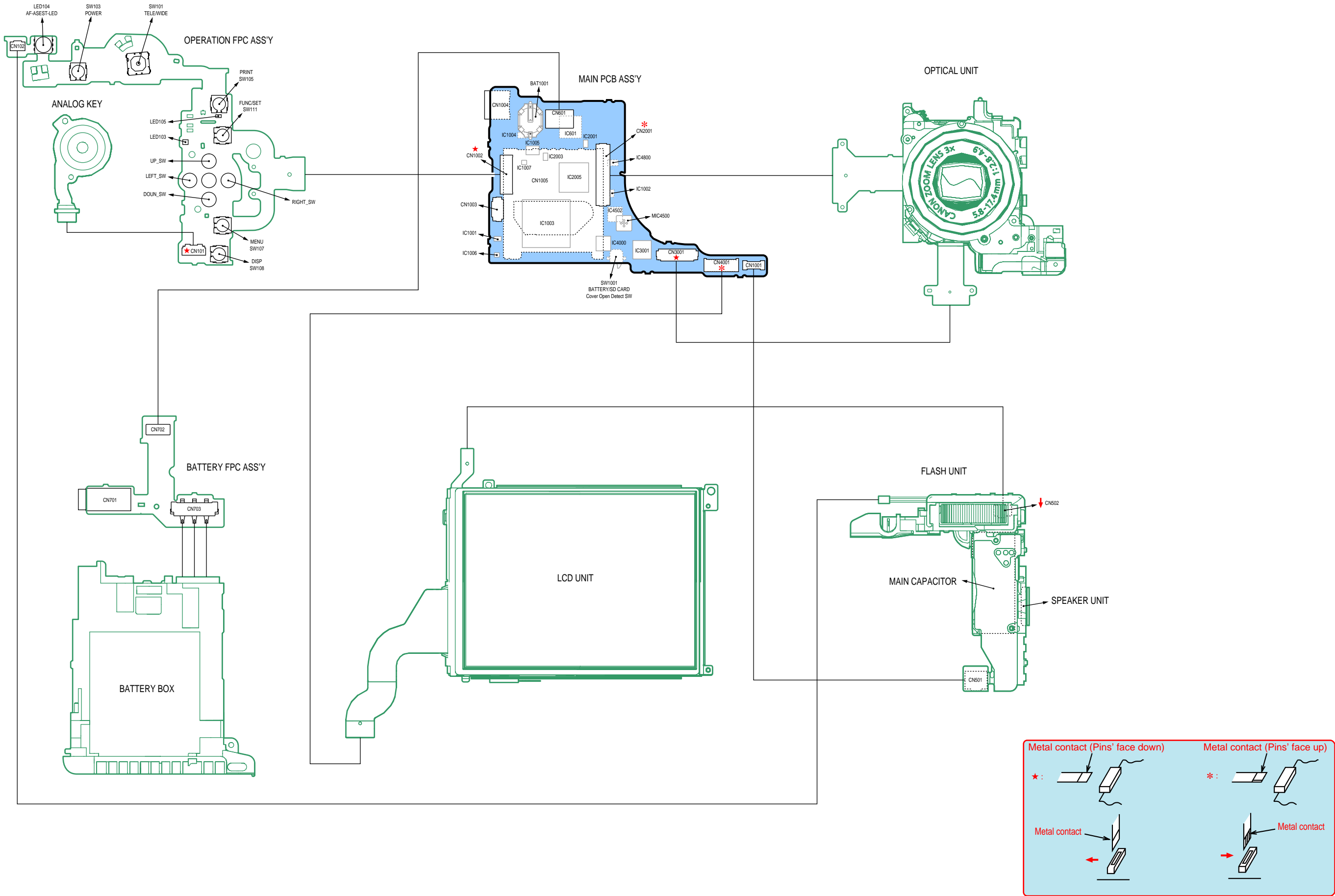
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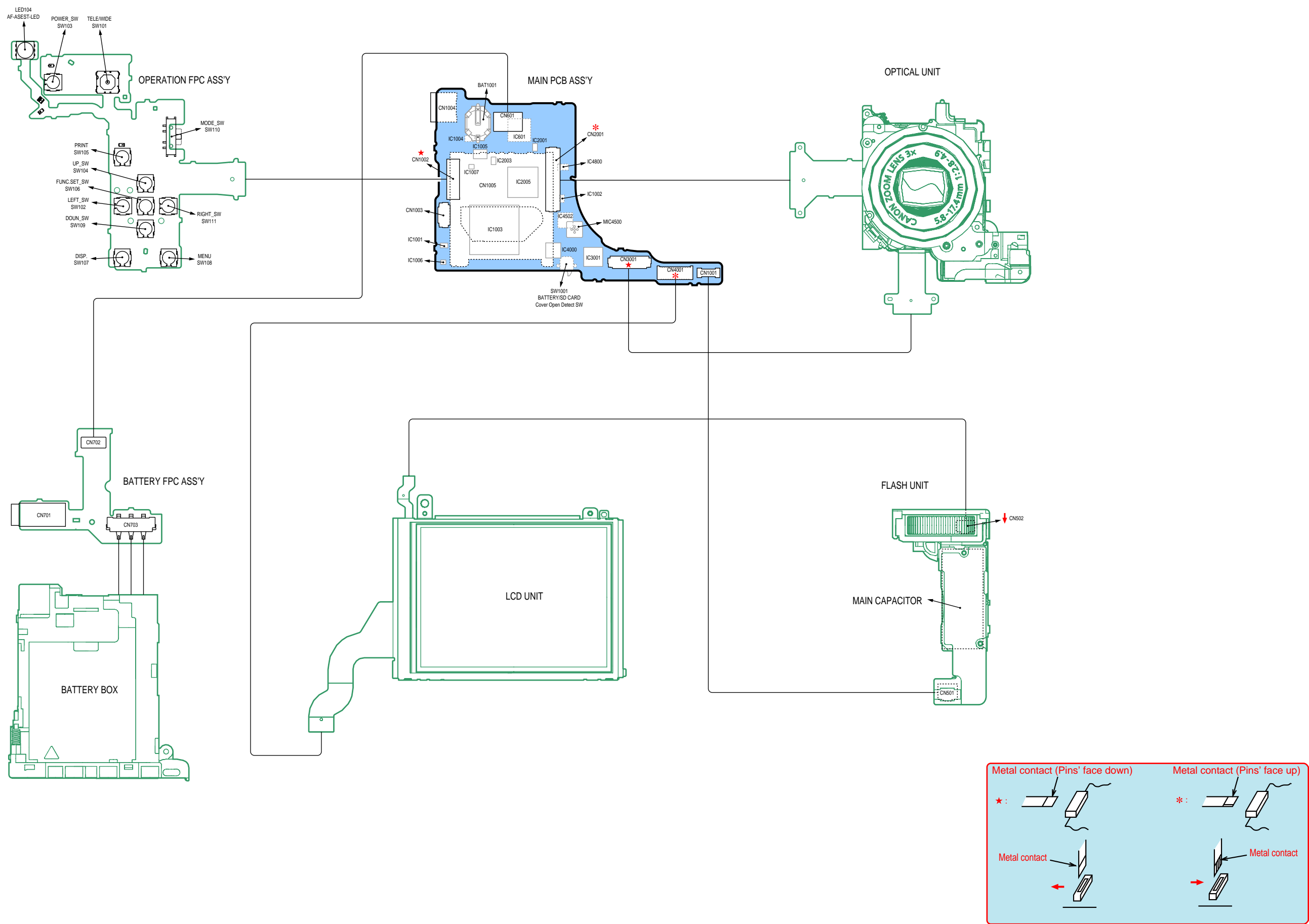
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1. INTERCONNECTION DIAGRAM

1.1 IXY DIGITAL 90 / DIGITAL IXUS 75 / PowerShot SD750 DIGITAL ELPH

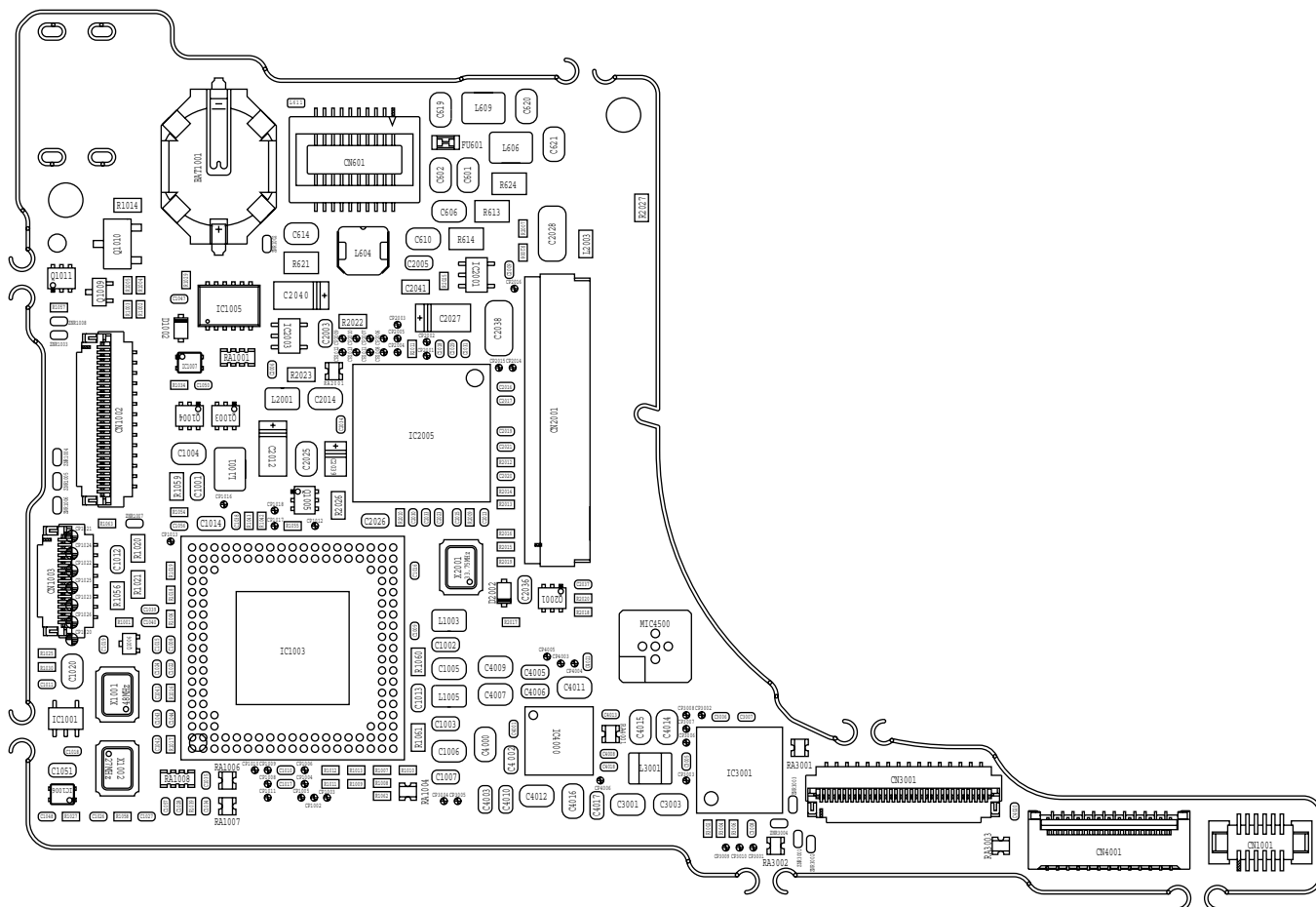


1.2 IXY DIGITAL 10 / DIGITAL IXUS 70 / PowerShot SD1000 DIGITAL ELPH

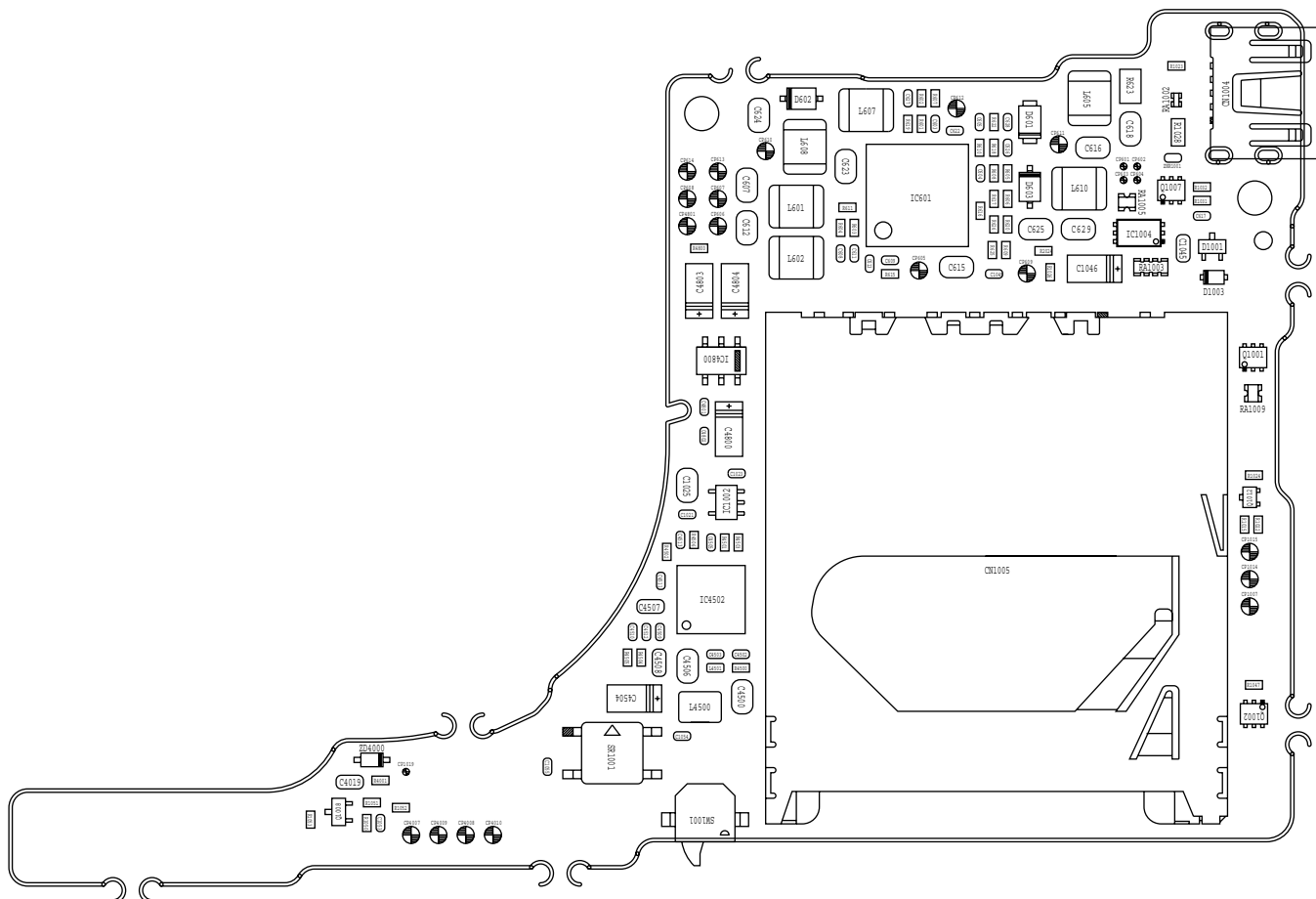


2. P.C.B. DIAGRAMS

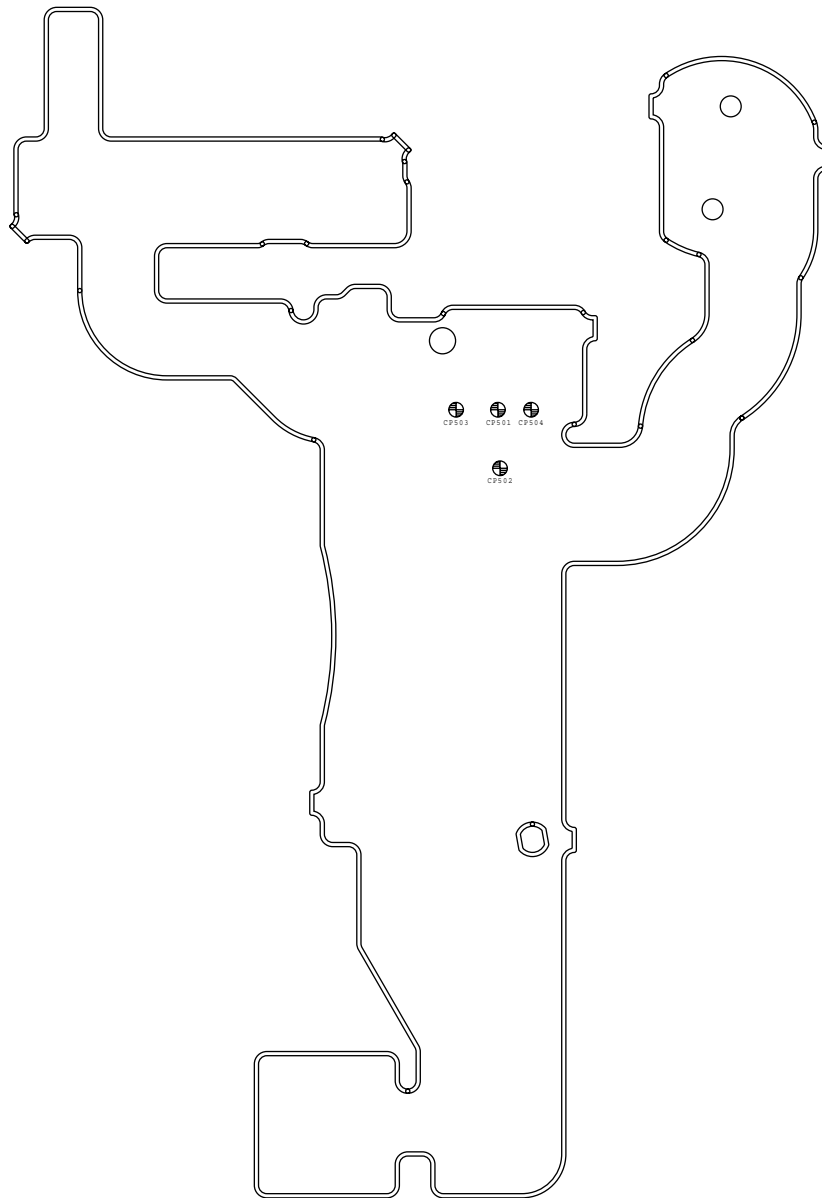
2.1 MAIN PCB ASS'Y (IXY DIGITAL 90 / DIGITAL IXUS 75 / PowerShot SD750)



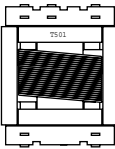
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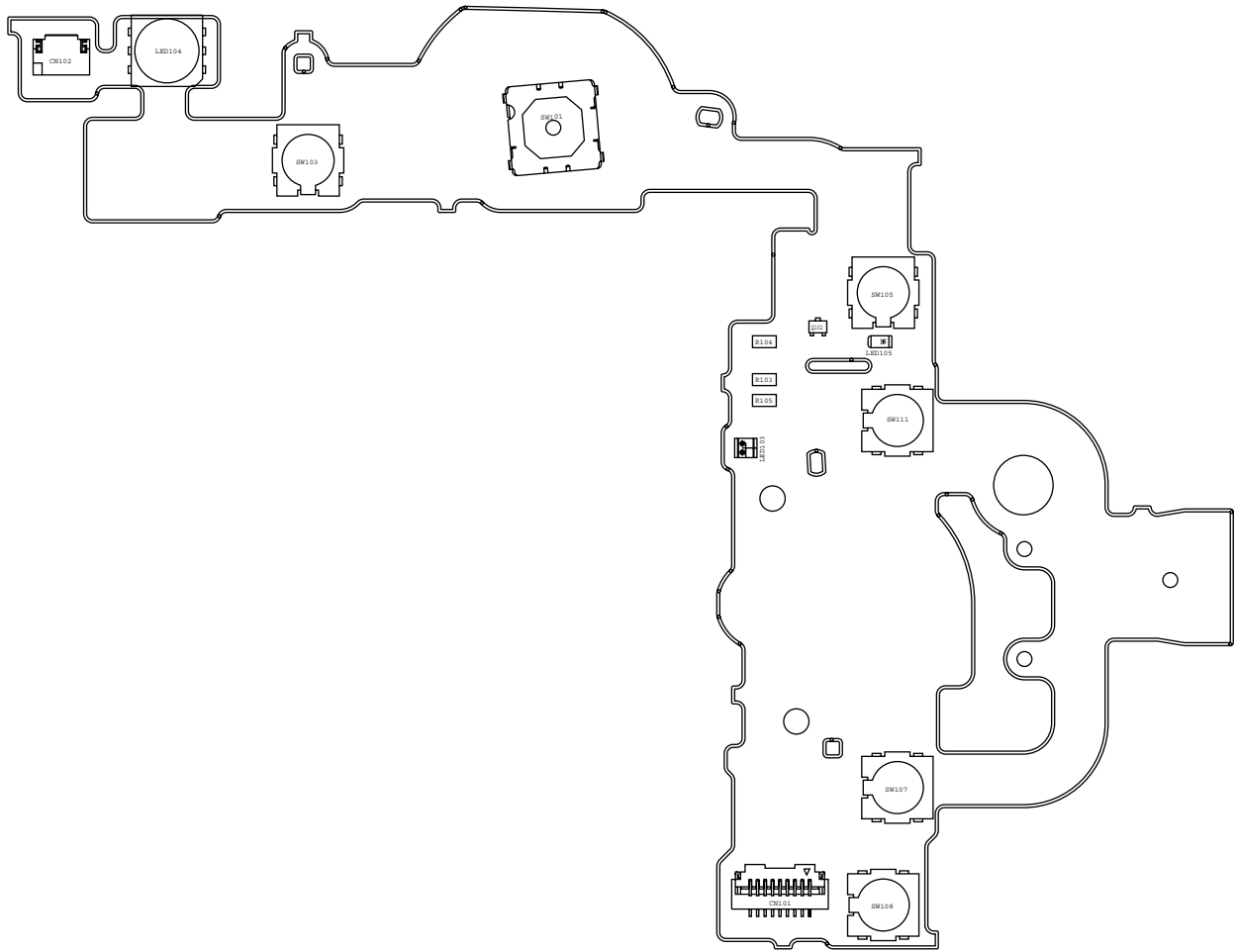
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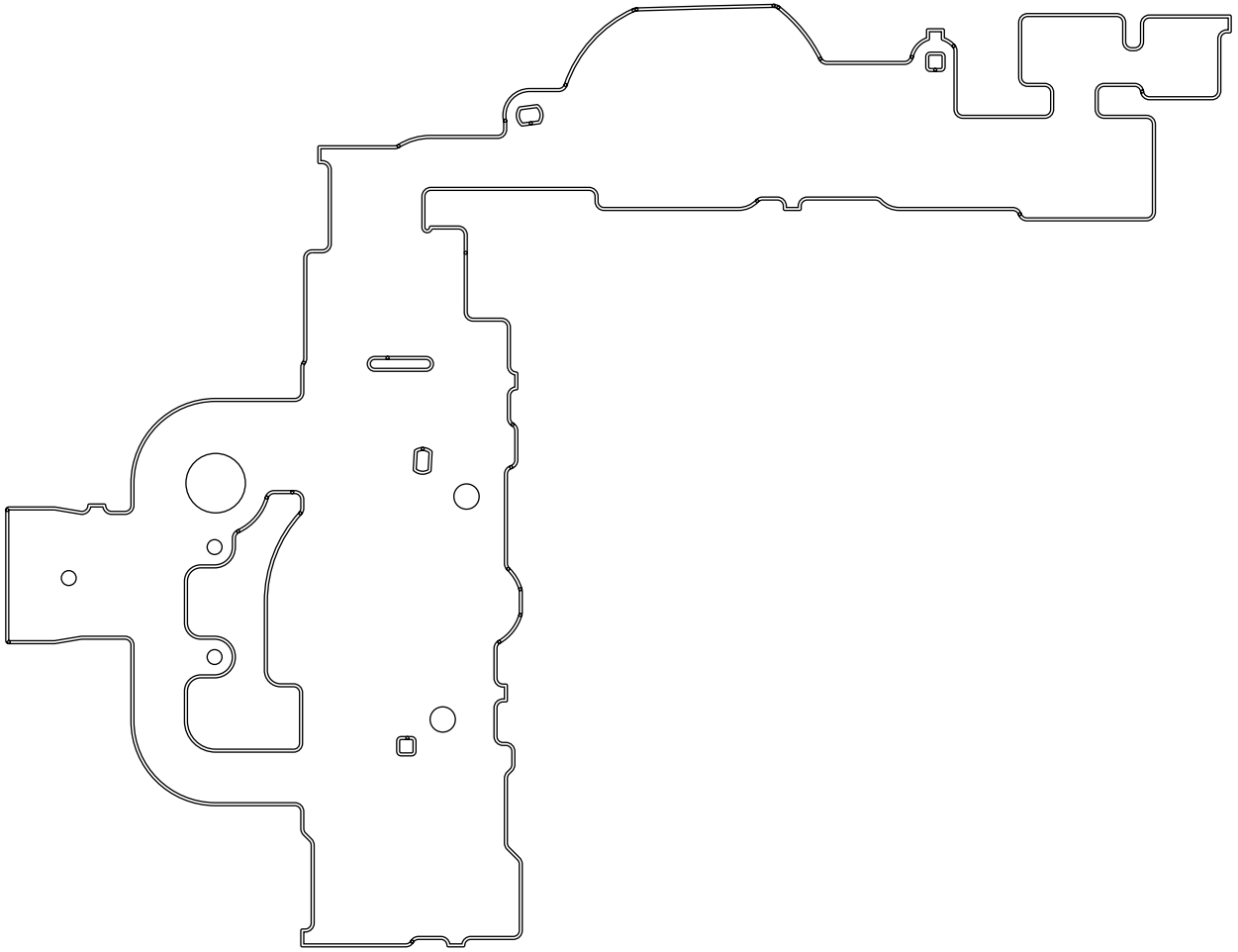
(Secondary Side)



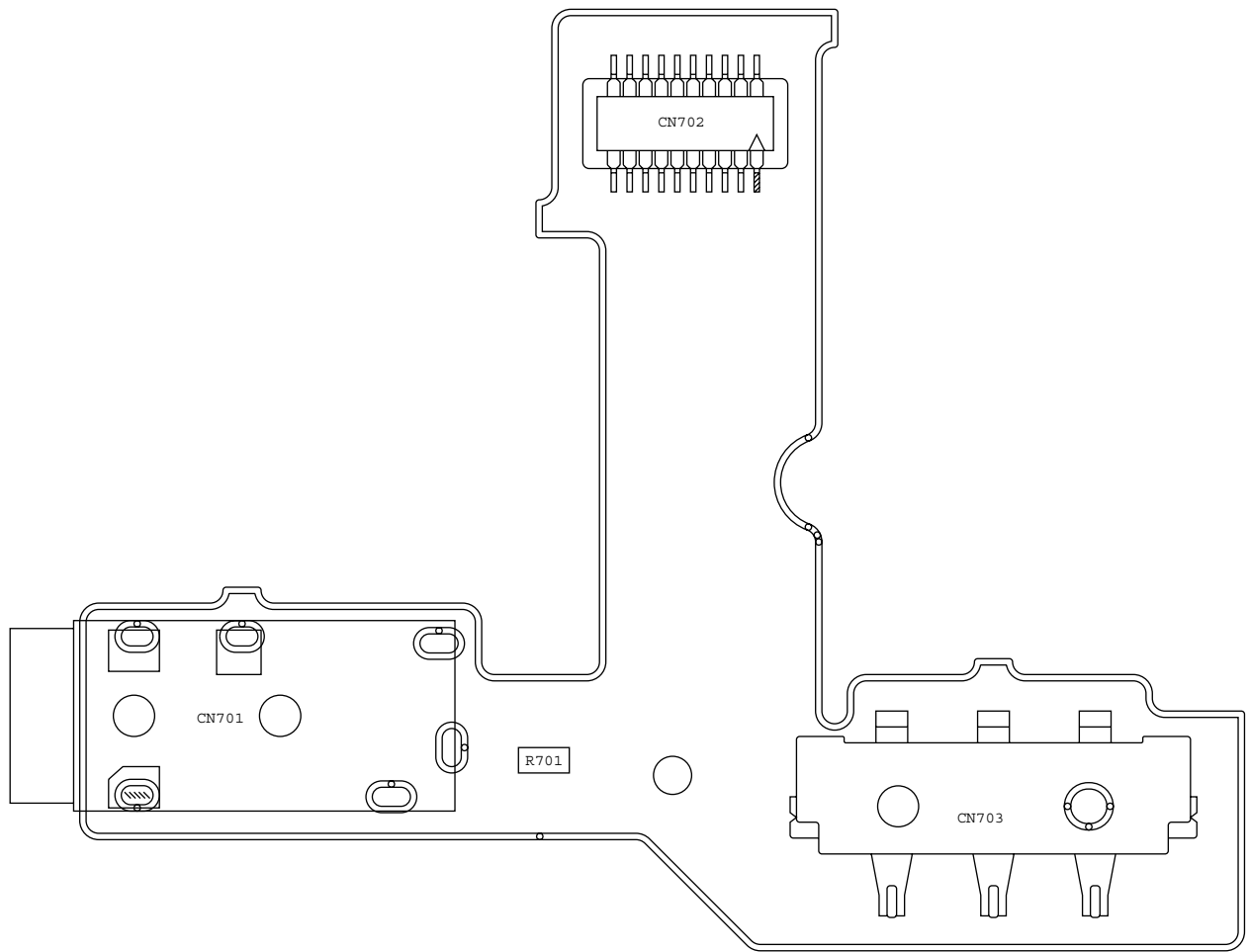
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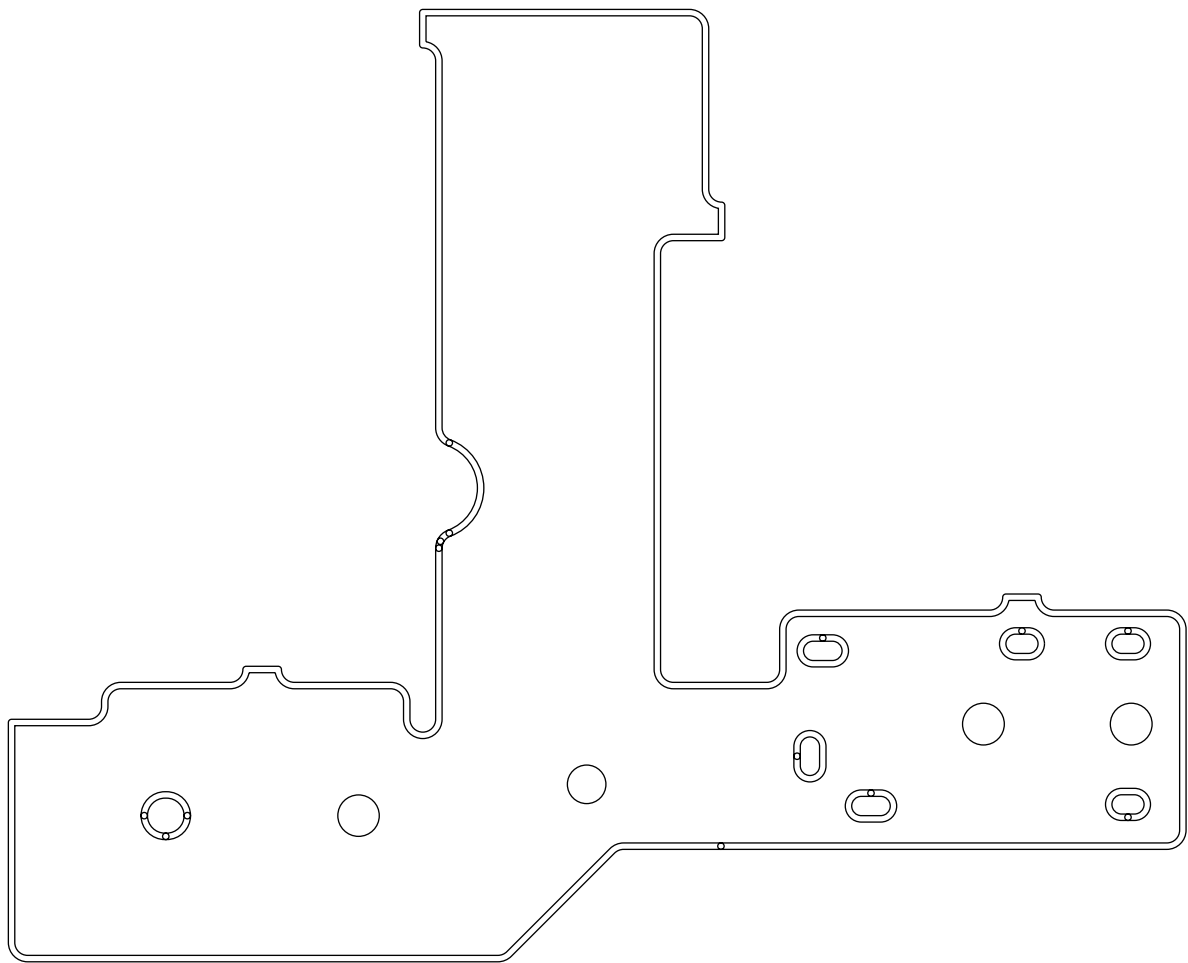
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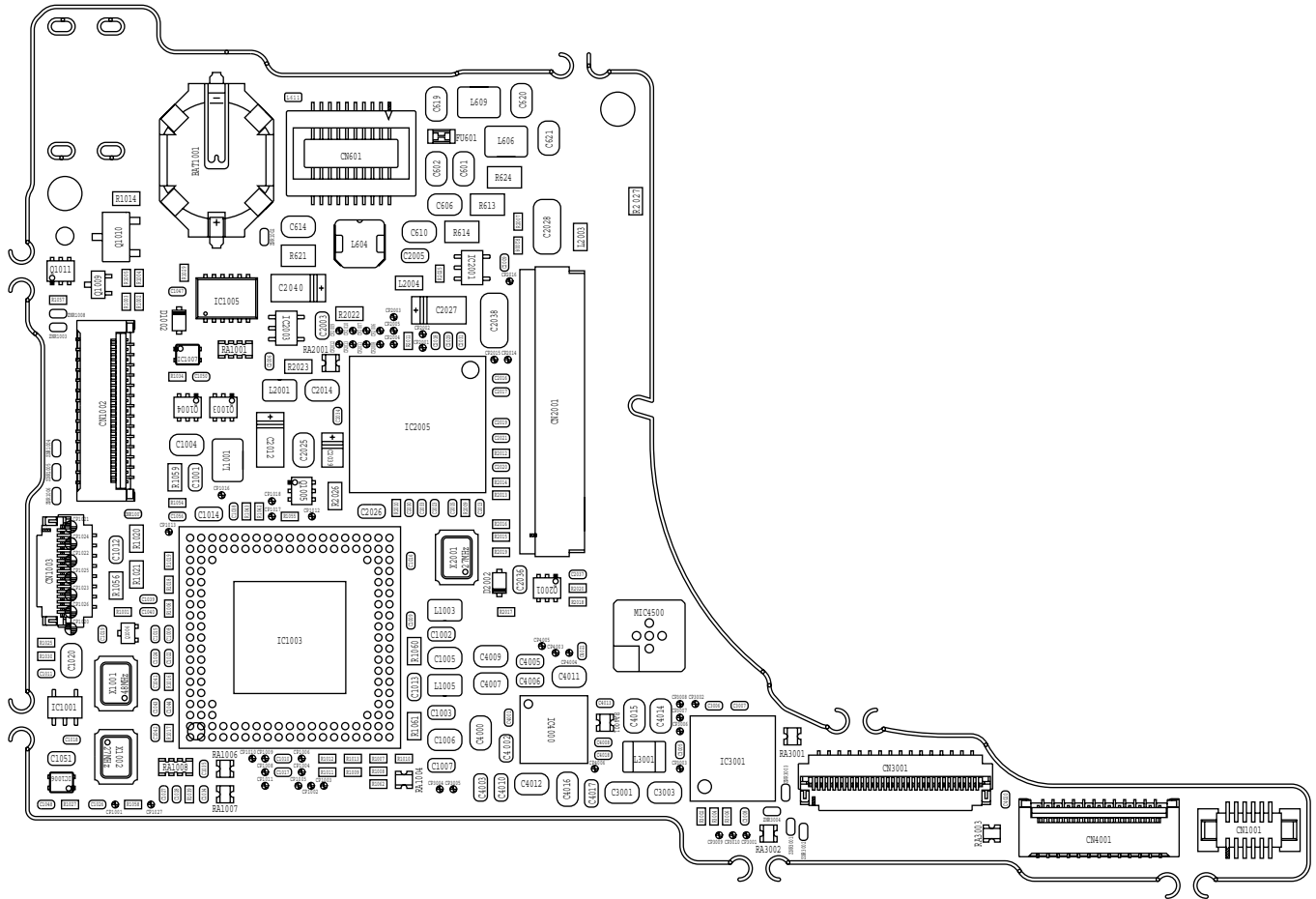
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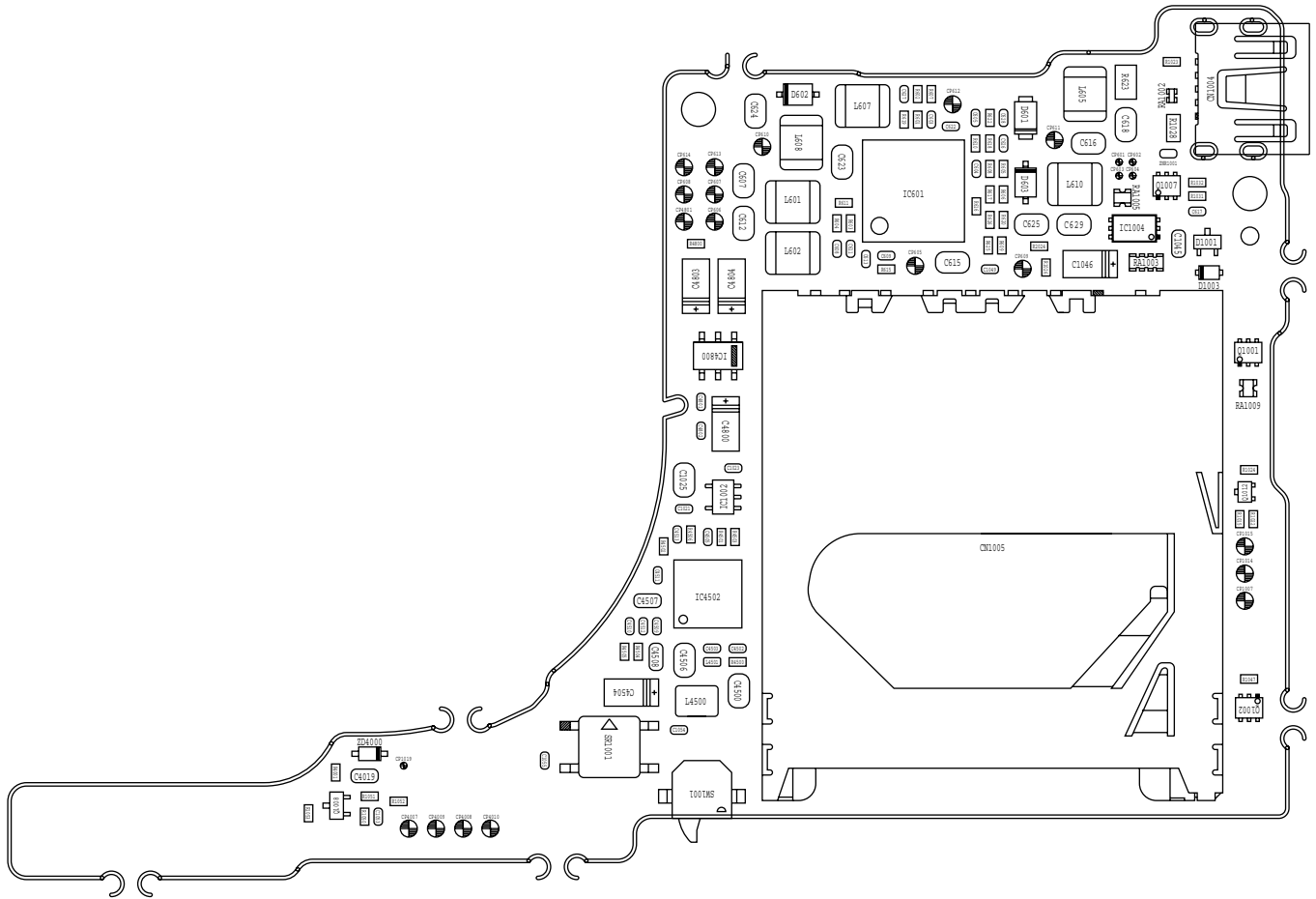
2.8 BATTERY FPC ASS'Y (IXY DIGITAL 90 / DIGITAL IXUS 75 / PowerShot SD750) (Secondary Side)



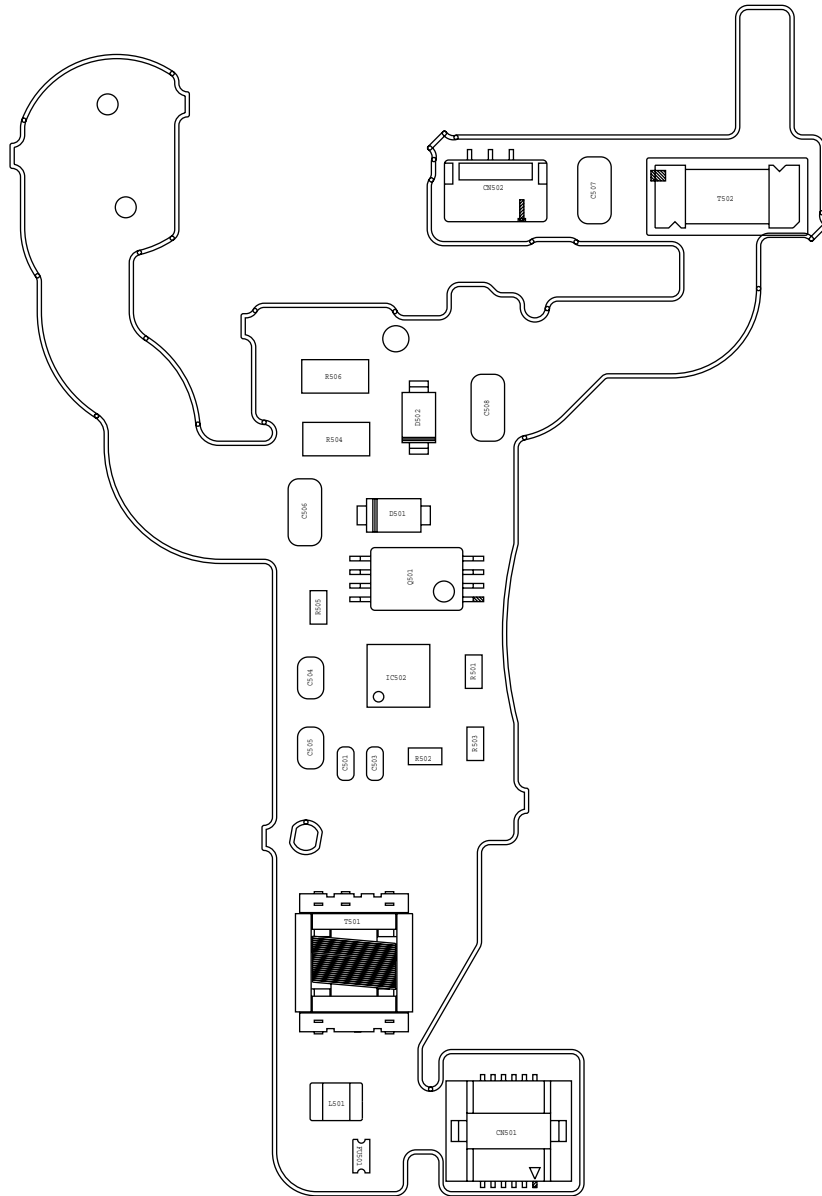
(Primary Side)



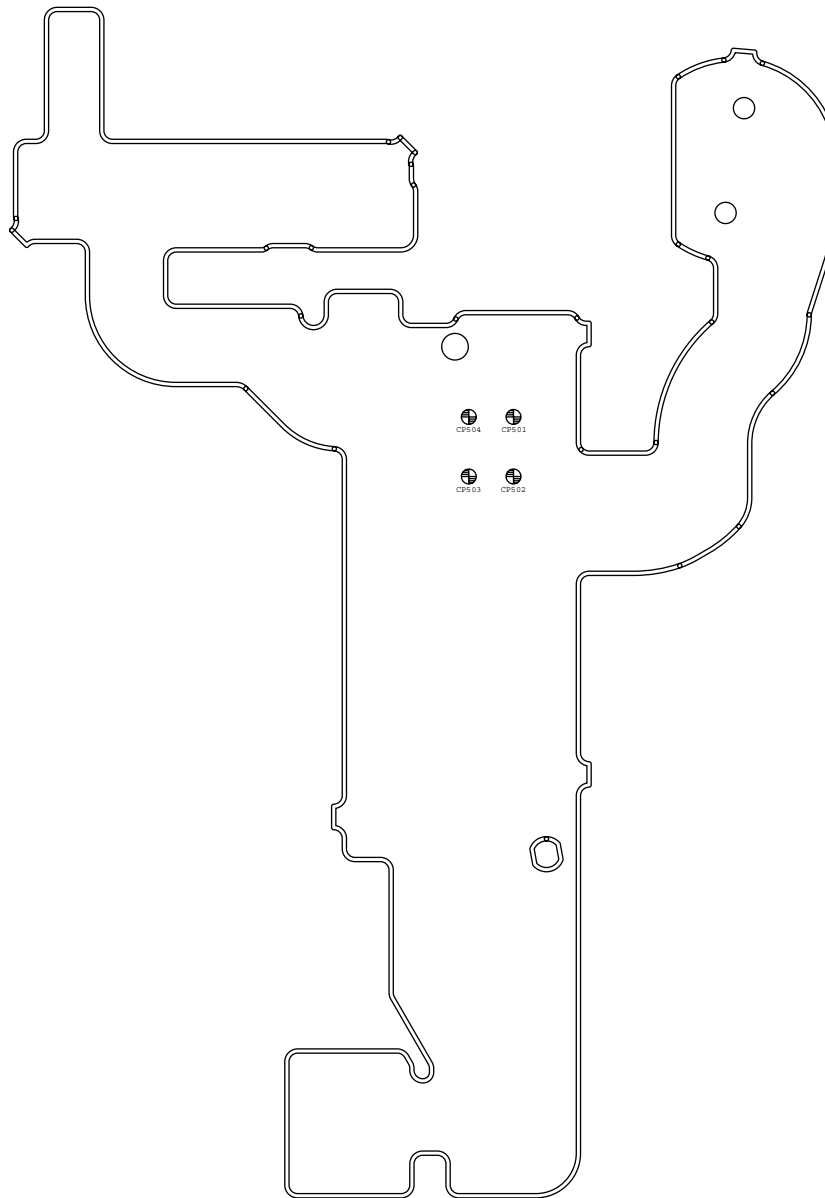
(Secondary Side)



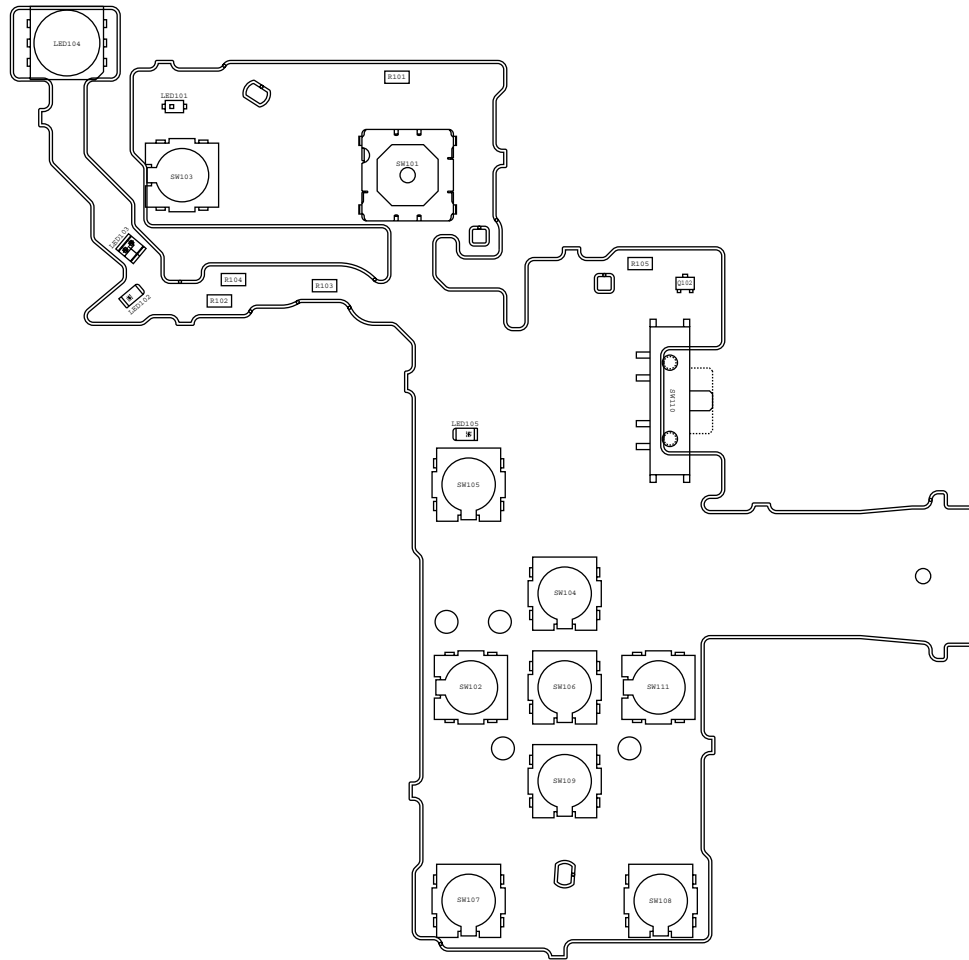
2.11 ST FPC ASS'Y (IXY DIGITAL 10 / DIGITAL IXUS 70 / PowerShot SD1000) (Primary Side)



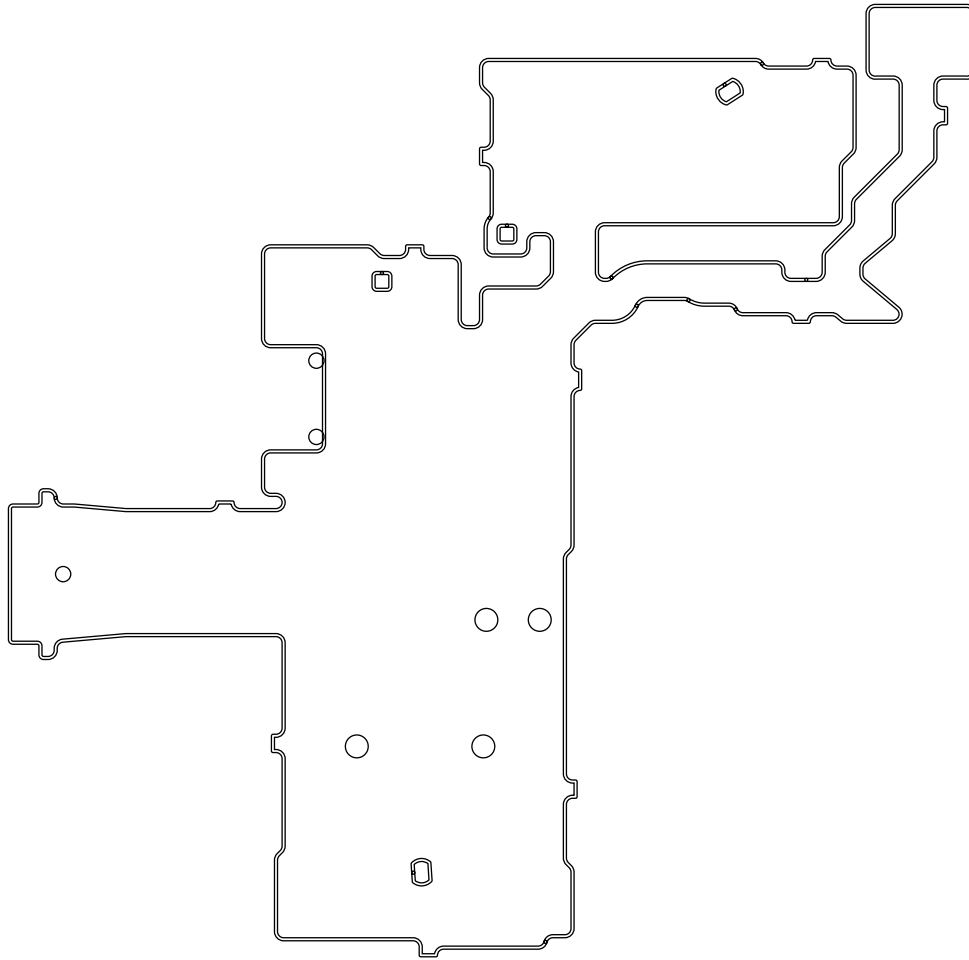
2.12 ST FPC ASS'Y (IXY DIGITAL 10 / DIGITAL IXUS 70 / PowerShot SD1000)
(Secondary Side)



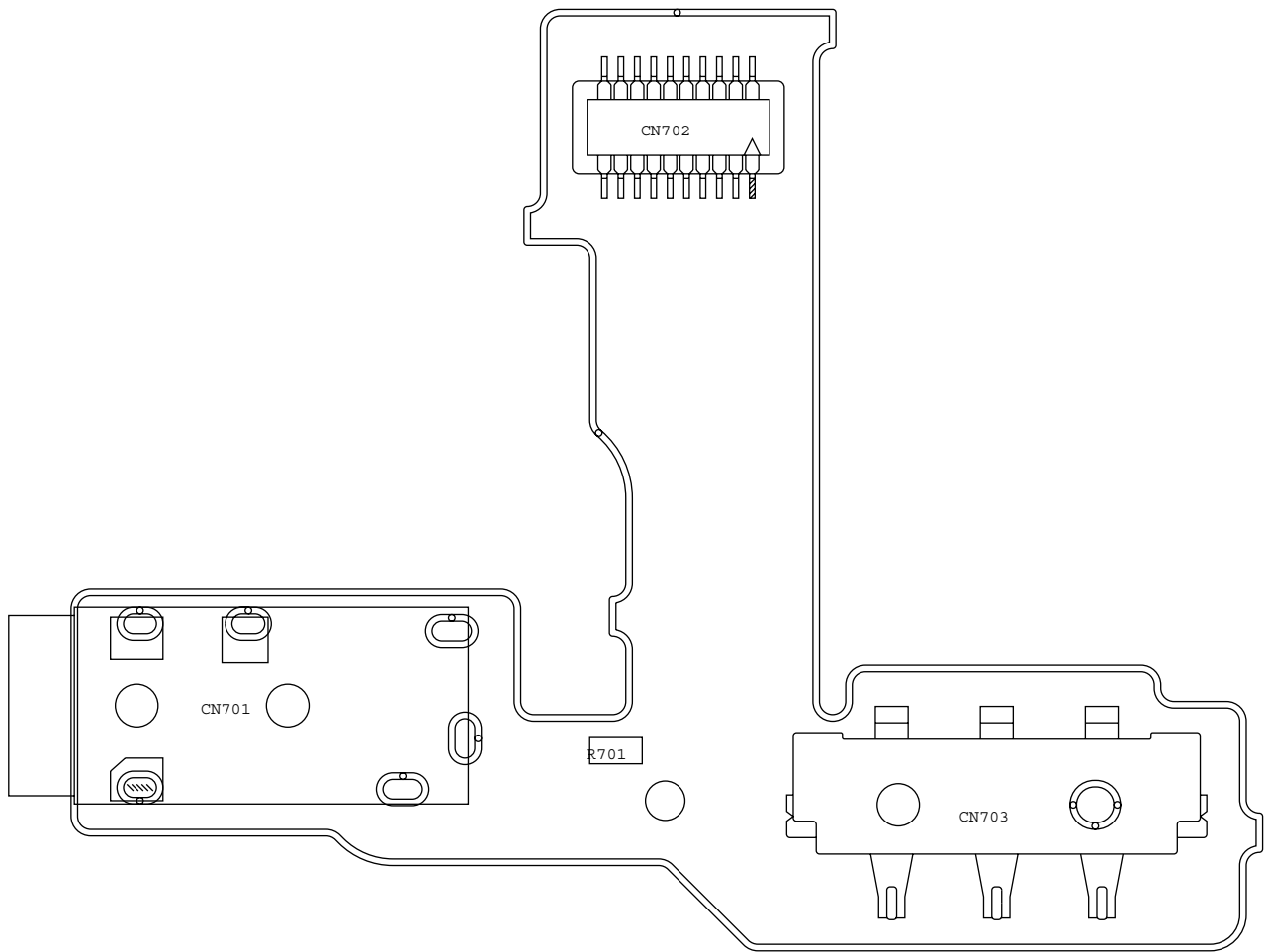
2.13 OPERATION FPC ASS'Y (IXY DIGITAL 10 / DIGITAL IXUS 70 / PowerShot SD1000) (Primary Side)



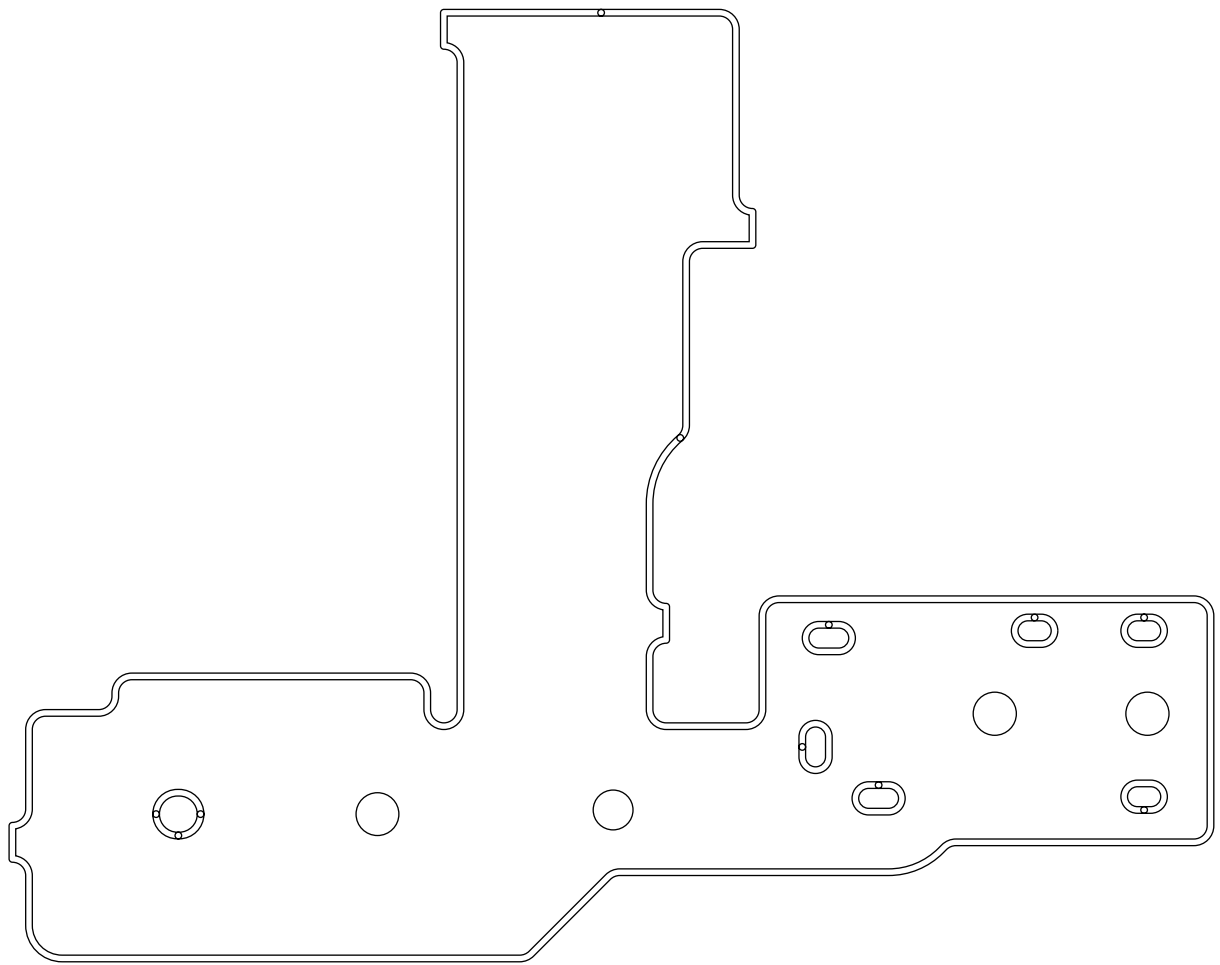
2.14 OPERATION FPC ASS'Y (IXY DIGITAL 10 / DIGITAL IXUS 70 / PowerShot SD1000) (Secondary Side)



2.15 BATTERY FPC ASS'Y (IXY DIGITAL 10 / DIGITAL IXUS 70 / PowerShot SD1000) (Primary Side)



2.16 BATTERY FPC ASS'Y (IXY DIGITAL 10 / DIGITAL IXUS 70 / PowerShot SD1000)
(Secondary Side)



1. Operation Conditions

The following conditions are recommended for the operation.

- **Browser**

Microsoft Internet Explorer 5.5 or above (Operation with Internet Explorer 6.0 confirmed)

- **Plug-In**

Adobe Acrobat Reader (Adobe Reader) 4.0 or above

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