

## SERVICE MANUAL

- English Edition -

# *PowerShot G11*

D I G I T A L   C A M E R A



GENERAL DESCRIPTION  
OF PRODUCT

TECHNICAL  
DESCRIPTION

DISASSEMBLY

APPENDIX

READ ME

# *GENERAL DESCRIPTION OF PRODUCT*

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# Power Shot G11 : PowerShot G Series (Successor model to the Power Shot G10)

Even further improved image quality and function, with a high-sensitivity CCD and variable-angle LCD screen

## Main changes from the previous model

- Even further advanced “Auto” shooting mode that detects scenes automatically
  - Varied shooting made possible by the high-sensitivity CCD
  - i-Contrast
- 

## 1 Summary of Main Features

Text highlighted in red: New features introduced with the Power Shot G11,

Text highlighted in blue: Differences from the Power Shot G10

### 1-1 High Image Quality

- DIGIC 4 imaging processor provides further enhancements to image quality and functionality
- High-sensitivity CCD for even better noise reduction (10.0 mega pixels (camera effective pixels))
- 5x zoom lens with lens-shift type image stabilizer significantly reduces camera shake
  - 28 – 140 mm (35mm film equivalent), f/2.8 (W) – f/4.5 (T)
- Supports RAW mode, which preserves original image data
  - Image processing using Digital Photo Professional software from EOS series
- High-speed ISO setting greatly reduces camera shake and subject blur
- iSAPS technology enables high-speed AF and high-precision AE/AWB

### 1-2 Full Featured

#### 1-2-1 Shooting Features

##### (1) Still Images

- Face detection function (Face detection technology)
  - Face AiAF focuses on the faces in the scene\*
  - AF frame can be moved and fixed to a specified face
  - \*Integration of Face Detect AF and AiAF
  - Face Detect AE evaluates the brightness of faces in the scene while controlling exposure
  - Face Detect WB evaluates the color of the faces in the scene while adjusting the white balance
  - Face Detect FE controls the flash output for optimum face brightness during flash photography
  - Auto Red-Eye Correction performs automatic correction for “red-eye” that occurs during flash photography
  - Face Self-Timer detects faces in the scene and releases the shutter in response to the appearance of an additional face
  - A “blink warning” screen appears if a person with closed eyes is detected in the image shot.
  - Checking for shut eyes is also available in rec review



- Motion Detection Technology changes the ISO speed and shutter speed in conjunction with subject movement when a face is detected
- Servo AF continues to focus on and track the subject while pressing the shutter button halfway
  - Also operates in AE (Servo AE)
- Even further advanced Auto mode
  - Automatic detection of varied scenes using scene detection, motion detection and face detection technologies
  - The shooting scene is identified for performing the optimum image processing, and a color icon indicating the type of scene appears on the LCD monitor
  - Scene detection (moving faces) added
    - Servo AF (Servo AE) continues to operate while pressing the shutter button halfway if moving faces are detected
  - If there is a significant lighting difference between subjects in the scene, the dynamic range is increased more than in previous models.
- AF-Point Zoom allows checking the focus when pressing the shutter button halfway
- i-Contrast automatically controls the exposure and tone optimally for each scene during shooting
- “On” and “Off” are selectable for Continuous AF
- AF frame size is selectable between ‘Normal’ or ‘Small’
- Can set amount of white balance correction
- Two custom white balance menu items allow two white balance settings
- Further advanced Safety FE
  - Safety FE reduces the occurrence of highlight blowout during flash photography at close distances
- Thanks to a faster flash synchro speed, an appropriate exposure can be obtained even in bright scenes.
- Continuous shooting AF takes continuous shots while maintaining focus on a moving subject
- Auto Category sets categories based on the shooting mode and the presence of faces in the scene
- Date stamp is available in all recording pixel settings\*
  - \*excluding RAW
- Digital tele-converter easily allows telephoto photography as if a tele-converter is attached
- Real-time histogram displays the brightness distribution of the scene in real time during shooting
- Program shift allows changing the shutter speed and aperture value combinations while keeping the optimum exposure
- Safety shift automatically shifts the shutter speed or aperture value to obtain the optimum exposure
  - This function is available with just one push when in manual shooting mode
- Focus bracketing/AE bracketing enables shooting while making fine adjustments to the focus and exposure
- Focus Checker allows checking the image focus during Rec. Review

## (2) Movies

- Support for lightweight MOV files enables longer recording times

### (3) Images and Movies

- 27 shooting modes including still image and movie modes
  - New Auto mode, Low Light mode\*, Quick Shot mode, and other modes
- \*Approx. 2.5M recording pixels
- With manual focus the focus can be adjusted to fit the user's intention
- Safety MF fine tunes the focus when pressing the shutter button halfway during manual focus photography
- Macro allows close-up shooting within 1 cm (0.39 in.) of the subject
- My Colors enables customization of the colors in the scene during shooting
- Quick-bright LCD function maximizes brightness when the LCD monitor is hard to see, such as in bright sunlight or other strong light sources

## 1-2-2 Playback Features

### (1) Still Images

- The number of thumbnails can be selected according to display aspect ratio during index playback
  - Aspect ratio of 4:3 : 2x2, 3x3, 6x6, 10x10
  - Aspect ratio of 16:9 : 3x2, 4x3, 8x6, 13x10
- It is possible to switch between images displaying the same area at the same zoom factor
- i-Contrast for playback adjusts the contrast and tone for optimum viewing of playback images
- Red-Eye Correction uses the face detection function to automatically correct "red-eye" that occurred during flash photography
- Trimming centered around faces is possible by using the face detection function
- Recorded images can be resized to 1600 x 1200 pixels, 640 x 480 pixels, and 320 x 240 pixels
- Focus Checker allows checking the image focus during playback
- My Colors enables customization of the colors in the scene during playback
- Image ranges (first image and last image) can be selected for performing batch printing and erasing operations
- Histogram indicates the brightness distribution of the image being shot
- Transition adds fade-in and fade-out effects when switching between playback images
  - New effects added
- Slideshow enables playback of images grouped by folder, shooting date, and other criteria
  - New playback effects added

### (2) Images and Movies

- My Category allows sorting images into categories depending on each shooting condition
- Jump allows quick switching to specific images
  - Date, My Category, still images, movies, 10 images, and 100 images
  - Filtered playback by date, My Category, still images or movies is possible
- Resume Playback starts playback from last viewed image (still image) or frame (movie)
- Automatic image rotation is linked to the camera's orientation (Intelligent Orientation Sensor)

### 1-2-3 Printing Features

- Versatile support of PictBridge\*
  - \*Business card size added
- Recognizes DPOF files and changes to the print order screen when the camera is connected to a printer
- Printing is available by pressing the Direct Print button during playback

### 1-3 Easy Operation

- Exposure Compensation Dial for easily adjusting the exposure compensation
- ISO Dial enables setting of the optimum ISO speed depending on the scene
  - Two dials allow direct setting of ISO speed and shooting mode
- Control Dial enables easy control of various functions
  - Advanced scroll playback
- Remote switch enables easy shutter release for photography using a tripod
- Playback button switches between shooting mode and playback mode with one-push operation
- L-shaped FUNC. menu display enables efficient settings selection
- Bar-shaped exposure marker shows the difference between manual and automatic exposure settings
- Switching to shooting mode is possible by pressing the shutter button halfway during playback
- The shutter sound is synchronized with the actual shutter speed
- My Menu allows registering of user-selected options from the shooting menu
- Improved operability due to a shortcut button
  - Servo AF can be registered as a shortcut
- Selected ISO speed is displayed on the LCD monitor
  - Actual ISO speed is displayed in 1/3-stop increments when pressing the shutter button halfway in Auto ISO mode
- Shutter speed and f/number are displayed on the LCD monitor when pressing the shutter button halfway during shooting
- Rounded number of total pixels are displayed together with the number of recording pixels (horizontal pixels X vertical pixels)
- Battery power displays in 3 levels on the LCD monitor
- Summaries for each function are displayed on the LCD monitor
  - Menu (shooting, playback, settings, L-shaped FUNC.) summaries added
- Improved operability
  - Folder searches on a computer are made easier by including the shooting date in the folder name
  - Simple, easy-to-understand shooting information is displayed
  - Functions assigned to operational parts changed
  - Overhaul of menu items and available functions

## 1-4 Others

- **2.8-inch LCD** monitor with high-resolution (approx. 461,000 dots) and wide viewing angle
  - Variangle LCD monitor enables shooting from any position
  - High contrast and faithful color reproduction
- Includes HDMI terminal
- 256 color GUI
- Menu screen design changed
- Look of the GUI is improved by means of introducing a proportional font
- UI display available in 26 languages
  - The models for Japanese market available with 2 languages (Japanese and English) only
- Hot shoe enables external flash attachment
- Tele-converter enables shooting a wide variety of scenes

## 1-5 Design

- “The Field G” is the design keyword for this G series camera
  - Unique texture, feel, and details of the G-Series
  - Coexistence of a compact style, and a vari-angle LCD screen, expanding the freedom of shooting styles

## 1-6 Comparison of Main Features

- Table items highlighted in **red** indicate changes from the Power Shot G10.

		Power Shot G11		Power Shot G10	
Image Sensor		Camera Effective Pixels	Approx. 10 million pixels (high-sensitivity CCD)	Approx. 14.7 million pixels (CCD)	
Lens	Focal Length (35mm film equivalent)		5x zoom: 28 (W) - 140 (T) mm		
	Focusing Range	Normal	50 cm (1.6 ft.) – infinity		
		Macro	1 – 50 cm (W), 30 – 50 cm (T) (0.4 in. – 1.6 ft. (W), 12in.– 1.6 ft. (T))		
		Super Macro	-		
		All Range	1 cm (0.4 in.) – infinity (W), 30 cm (12 in.) – infinity (T) • While shooting in Auto and Low Light modes	-	
Image Stabilizer (IS) System		Lens-shift type			
Imaging Processor			DIGIC 4		
Viewfinder			Real-image optical zoom viewfinder • With diopter adjustment dial		
LCD Monitor	Type	2.8-inch type, color LCD with wide viewing angle (Effective dots: Approx. 46,1000 dots)		3.0-inch type, color LCD with wide viewing angle (Effective dots: Approx. 46,1000 dots)	
	Features	Brightness adjustment (5 levels), Quick-bright LCD Vari-Angle type (Movement: approx. 170 degrees horizontal, approx. 270 degrees rotational)		Brightness adjustment (5 levels), Quick-bright LCD	
Focus			AF (Face AiAF <sup>1,2</sup> / Center / FlexiZone <sup>3</sup> ) Single, Continuous, Servo AF (Servo AE) Manual focus *1 AF frame can be moved and fixed to specified face. *2 When no faces are detected and Continuous AF is off, AiAF (9 point) is enabled, if Continuous AF is on, the center AF frame is enabled. *3 AF frame size is selectable.		
Metering System			Evaluative <sup>1</sup> , Center-weighted average, Spot <sup>2</sup> *1 Facial brightness is evaluated in Face AiAF. *2 Fixed to center / Linked to AF frame		
ISO Speed (Standard Output Sensitivity , Recommended Exposure Index)			Auto*, ISO 80/100/200/400/800/1600/3200 *Subject movement is taken into account while shooting in Auto mode		
White Balance			Auto*, Day Light, Cloudy , Tungsten, Fluorescent, Fluorescent H, Flash, Underwater, Custom 1, Custom 2 * The colors of faces are evaluated in Face AiAF		
Shutter Speeds			1 – 1/4000 sec. 15 – 1/4000 sec. (Total shutter speed range)		
Aperture	Type	Iris type			
	f/number	f/2.8 – f/8.0* (W), f/4.5 – f/8.0* (T) * Up to f/9.0 when in Auto mode.		f/2.8 – f/8.0* (W), f/4.5 – f/8.0* (T) * The f/number can be set to f/11 when in Auto mode.	
Flash	Range	50 cm – 7.0 m (W), 50 cm – 4.0 m (T) (1.6 – 23 ft. (W), 1.6 – 13 ft. (T))			
Recording Specifications	Shooting Modes		Auto <sup>1</sup> , P , Tv, Av, M, C1, C2, Low Light, Quick Shot, SCN <sup>2</sup> , Movie *1 Optimum image processing for each scene *2 Portrait, Landscape, Night Snapshot, Kids & Pets, Indoor, Sports, Sunset, Night Scene, Fireworks, Beach, Underwater, Aquarium, Foliage, Snow, Color Accent, Swap Color, Stitch Assist		
	Digital Zoom		Still images/Movies: Approx. 4.0x (up to approx. 80x in combination with the optical zoom) Safety Zoom, Digital tele-converter		
	Continuous Shooting		Normal: Approx. 1.1 shots/sec. (Auto), Approx. 2.4 shots/sec. (Low Light) AF: Approx. 0.7 shots/sec., LV: Approx. 0.8 shots/sec.		Normal: Approx. 1.3 shots/sec. AF: Approx. 0.7 shots/sec., LV: Approx. 0.7 shots/sec.
	Number of Recordable Shots (CIPA)		Approx 390 shots		Approx 400 shots
Recording Specifications	Recording Media		SD memory card, SDHC memory card, MultiMediaCard, MMCplus card, HC MMCplus card		
	File Format		Design rule for Camera File system, DPOF (Version 1.1) compliant		
	Data Type	Still Images	Exif 2.2 (JPEG) RAW (CR2 (Canon Original))		
		Movies	MOV (Image data: H.264, Audio data: Linear PCM (monaural)) • Not compatible with AVI		
	Number of Recording Pixels	Still Images	Large: 3648 x 2736, Medium 1: 2816 x 2112, Medium 2: 2272 x 1704, Medium 3: 1600 x 1200, Small: 640 x 480, Widescreen: 3648 x 2048 RAW: 3648 x 2746 • Date stamp is available in all recording pixels* * excluding RAW		Large: 4416 x 3312, Medium 1: 3456 x 2592, Medium 2: 2592 x 1944, Medium 3: 1600 x 1200, Small: 640 x 480, Widescreen: 4416 x 2480 RAW: 4416 x 3312
		Movies	Standard, Color Accent, Color Swap: 640 x 480 (30 fps), 320 x 240 (30 fps)		
Display Languages			26 languages (The models for Japanese market available with 2 languages (Japanese and English) only)		
Interface			Digital input/output (Hi-Speed USB <sup>1</sup> (MTP, PTP supported)) Digital video and audio output <sup>2</sup> (HDMI compliant) Audio and video output <sup>1</sup> *1 Unified connector for digital, video and audio (mini-B compatible) *2 HDMI™ Mini-Connector		Digital input/output (Hi-Speed USB <sup>1</sup> (MTP, PTP supported)) Audio and video output <sup>2</sup> *1 mini-B *2 ø3.5mm jack
Power Source			Battery Pack NB-7L, AC Adapter Kit ACK-DC50		
Dimensions (excluding protrusions)			112.1 x 76.2 x 48.3 mm (4.41 x 3.00 x 1.90 in.)		
Weight (camera body only)			Approx. 355 g (12.5 oz.)		
Others (Differences)			Blink Detection, i-Contrast, Scroll Playback, Index Playback with a variable number of images, Rotate Image (always on), Folder Creation (limited type), Hints and Tips display		
			Auto ISO Shift, i-Contrast, Rotate Image (On/Off), Folder creation, Voice Memo, Sound Recorder, Direct Transfer, DPOF Transfer, Canon Direct Print, Bubble Jet Direct		

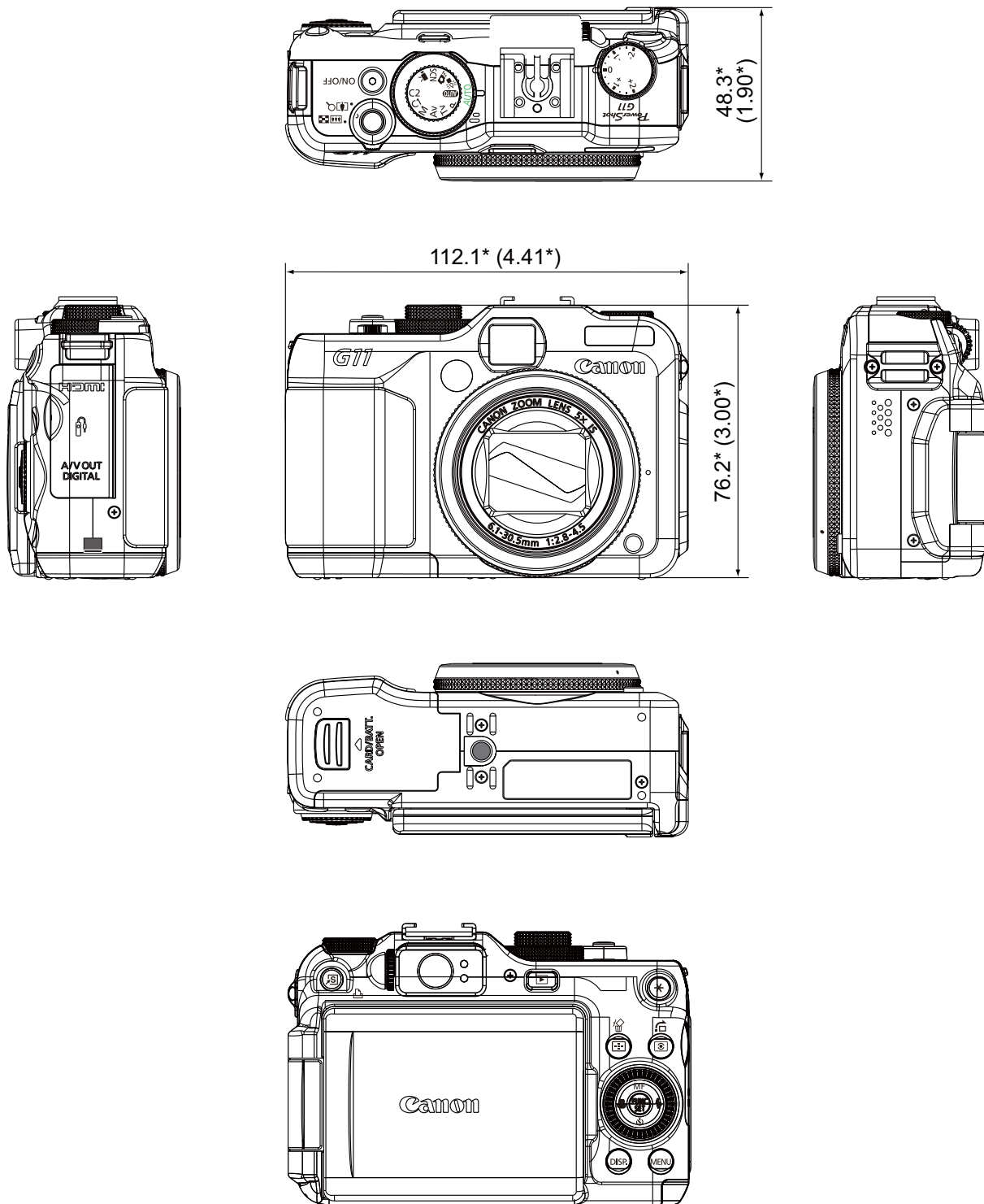
## 2 Exterior

### 2-1 Exterior Photos

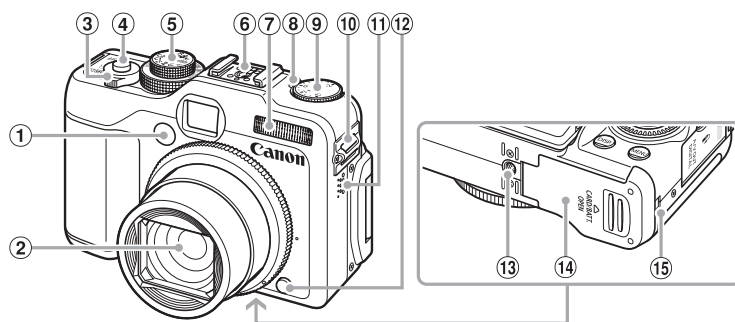


## 2-2 6-view Diagram

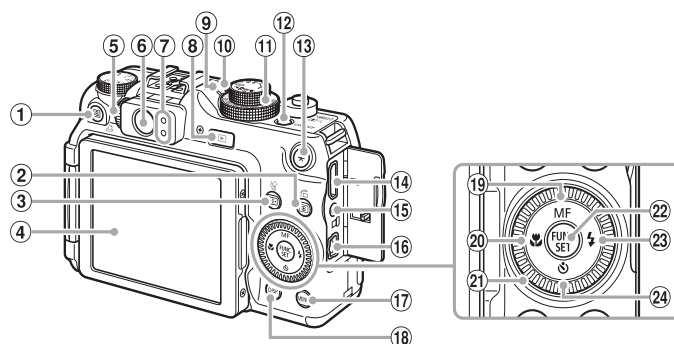
Unit : mm (inch)  
\*Nominal Dimensions



## 2-3 Nomenclature



- |  |                               |
|--|-------------------------------|
| ① Lamp (Self-Timer Lamp / AF Assist Beam / Reduction Lamp) | ⑥ Hot Shoe                    |
| ② Lens   | ⑦ Flash                       |
| ③ Zoom Lever   | ⑧ Exposure Compensation Lamp  |
| Shooting:  (Telephoto) /  (Wide Angle)                     | ⑨ Exposure Compensation Dial  |
| Playback:  (Magnify) /  (Index)                            | ⑩ Strap Mount                 |
| ④ Shutter Button   | ⑪ Speaker                     |
| ⑤ Mode Dial  | ⑫ Ring Release Button         |
|  | ⑬ Tripod Socket               |
|  | ⑭ Memory Card / Battery Cover |
|  | ⑮ DC Coupler Cable Cover      |



- |   |   |
|---|---|
| ①  (Direct Print) /  (Short Cut) Button               | ⑬  AE Lock / FE Lock Button                         |
| ②  (Metering Light) /  (Jump) Button                  | ⑭ HDMI Terminal                                     |
| ③  (AF Frame Selector) /  (Single Image Erase) Button | ⑮ Remote Terminal                                   |
| ④ Screen (LCD Monitor)                                | ⑯ A/V OUT (Audio/Video Output) and DIGITAL Terminal |
| ⑤ Diopter Adjustment Dial                             | ⑰ MENU (Menu) Button                                |
| ⑥ Viewfinder  | ⑱ DISP. (Display) Button                            |
| ⑦ Indicators  | ⑲ MF (Manual Focus)/ Button                         |
| ⑧  (Playback) Button                                  | ⑳  (Macro) /  Button                                |
| ⑨ ISO Speed Lamp                                      | ㉑ Control Dial                                      |
| ⑩ Microphone  | ㉒ FUNC./SET (Function/Set) Button                   |
| ⑪ ISO Speed Dial                                      | ㉓  (Flash) /  Button                                |
| ⑫ Power Button / Power Lamp                           | ㉔  (Self-Timer) /  Button                           |



## 3 Specifications

### 3-1 Product Specifications

Note: The measured data with no annotation is measured under normal temperature.

#### Imaging Processor DIGIC 4

#### Image Sensor

Type	CCD (High Sensitivity)
Camera Effective Pixels	Approx. 10.0 million
Total Pixels	Approx. 10.4 million
Image Size	1/1.7-inch type
Aspect Ratio	4 : 3
Color Filter Type	Primary Color

#### Lens

Focal Length	6.1 (W) – 30.5 (T) mm (35mm film equivalent: 28 (W) – 140 (T) mm)
f/number (Widest Aperture)	f/2.8 (W) – f/4.5 (T)
Lens Construction	11 elements in 9 groups 1 double-sided aspherical lens
Zoom Magnification	5x
Image Stabilizer System	
Type	Lens-shift type
Effect	Approx. 4 steps

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

Shooting Mode		Max. Wide Angle		Max. Telephoto	
		Focusing Range (from the front of the lens) *3	Image Area at the Minimum Focusing Distance [Image Magnification]	Focusing Range (from the front of the lens) *3	Image Area at the Minimum Focusing Distance [Image Magnification]
Auto		1 cm (0.4 in.) – infinity	32 × 23 mm (1.26 × 0.91 in.) [1.16x]	30 cm (12 in.) – infinity	93 × 70 mm (3.6 × 2.8 in) [0.37x]
	With Tele-converter	–	–	55 cm (1.8 ft.) – infinity	132 × 99 mm (5.5 × 3.9 in) [0.26x]
Low Light		1 cm (0.4 in.) – infinity	32 × 23 mm (1.26 × 0.91 in.) [1.16x]	30 cm (12 in.) – infinity	93 × 70 mm (3.6 × 2.8 in) [0.37x]
	With Tele-converter	–	–	55 cm (1.8 ft.) – infinity	132 × 99 mm (5.5 × 3.9 in) [0.26x]
	Manual Focus	1 cm (0.4 in.) – infinity	32 × 23 mm (1.26 × 0.91 in.) [1.16x]	30 cm (12 in.) – infinity	93 × 70 mm (3.6 × 2.8 in) [0.37x]
C2, C1, M, Av, Tv, P, Quick Shot, SCN* <sup>1</sup> , Movie	Normal	50 cm (1.6 ft.) – infinity	–	50 cm (1.6 ft.) – infinity	–
	With Tele-converter	–	–	93 cm (3.1 ft.) – infinity	202 × 151 mm (8.0 × 5.9 in) [0.17x]
	Macro* <sup>2</sup>	1 – 50 cm (0.4 in. – 1.6 ft.)	32 × 23 mm (1.26 × 0.91 in.) [1.16x]	30 – 50 cm (12 in. – 1.6 ft.)	93 × 70 mm (3.6 × 2.8 in) [0.37x]
	Manual Focus* <sup>2</sup>	1 cm (0.4 in.) – infinity	32 × 23 mm (1.26 × 0.91 in.) [1.16x]	30 cm (12 in.) – infinity	93 × 70 mm (3.6 × 2.8 in) [0.37x]
Sports		1 m (3.3 ft.) – infinity	–	2m (6.6 ft.) – infinity	–
Fireworks		Not disclosed	–	Not disclosed	–
Kids & Pets		1 m (3.3 ft.) – infinity	–	1 m (3.3 ft.) – infinity	–

\*1 Excluding Sports, Fireworks, and Kids & Pets.

\*2 Not available in certain scene modes

\*3 From the front of the attached lens when the lens accessory is attached.

## Optical Viewfinder

Type	Real-image zoom viewfinder
Picture Coverage	Approx. 77% (representative value) <ul style="list-style-type: none"><li>• The viewfinder view may be partially blocked depending on the lens zoom position.</li></ul>
Eyepoint	15 mm (0.59 in.)
Dioptric Adjustment	-3.0 – +1.0 m <sup>-1</sup> (dpt)

<b>Viewfinder</b>	Not available
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## LCD Monitor

Type	TFT color, with wide viewing angle
Effective Dots	Approx. 461,000 dots
Display Size	2.8-inch type
Aspect Ratio	4 : 3
Picture Coverage	100%
Brightness Adjustment	5 levels
Quick-bright LCD	Available
Variangle	Available
Opening angle	Approx. 170°
Rotational angle	Approx. 270°
Reverse Display	Available

## Focus Control

AF System	TTL autofocus / Manual focus* * Shooting standby only in movie mode.
Auto Focus	
ContinuousAF	Available <ul style="list-style-type: none"><li>• Continuous AF will be automatically set when in Auto mode.</li></ul>
Servo AF	Available <ul style="list-style-type: none"><li>• Not selectable when AF-Point Zoom is on or FaceSelf-Timer is set.</li><li>• AE is linked to the AF frame (Servo AE).</li><li>• In Auto shooting mode, pressing the shutter button halfway while detected faces are moving will turn on Servo AF.</li></ul>
AF Frame	Face AiAF <sup>*1*2</sup> / Center / FlexiZone *1 AF frame can be moved and fixed to a specified face. *2 If no faces are detected and Continuous AF is set to off, AiAF (9 point) will be enabled; if Continuous AF is on, the center AF frame will be enabled.
AF-Point Zoom	Available
Size Select	Standard, Small <ul style="list-style-type: none"><li>• Available when Center or FlexiZone is selected.</li></ul>
AF Lock	Available <ul style="list-style-type: none"><li>• Only when in shooting standby in movie mode.</li></ul>
AF-assist Beam	Available <ul style="list-style-type: none"><li>• Only when in shooting standby in movie mode.</li></ul>
Manual Focus	
MF-Point Zoom	Available
MF Indicator	Available (unit used to indicate distances selectable)
Safety MF	Available <ul style="list-style-type: none"><li>• Focus fine tuning is also available</li></ul>

## Exposure Control

Metering System	Evaluative* <sup>1</sup> , center-weighted average, spot* <sup>2</sup> * <sup>1</sup> Facial brightness is also evaluated in Face Detect AiAF. * <sup>2</sup> Fixed to center or linked to the AF frame.
Manual Exposure	Available <ul style="list-style-type: none"><li>• Exposure bar available</li></ul>
AE Lock	Available
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"><li>• Shooting standby only.</li></ul>
Program Shift	Available <ul style="list-style-type: none"><li>• With an assistant indicator by Av bar or Tv bar.</li></ul>
Safety Shift	Available
ISO Speed	Auto*, ISO 80/100/200/400/800/1600/3200
(Standard Output Sensitivity, Recommended Exposure Index)	* Camera automatically sets the optimal ISO speed according to shooting mode and subject brightness. The ISO speed also varies according to subject movement and camera shake when the shooting mode is set to Auto.
ND Filter (built-in) Insertion	Light intensity reduction: 3 stops (Intensity becomes 1/8 of actual level)

## White Balance

Modes	Auto*, Day Light, Cloudy, Tungsten, Fluorescent, Fluorescent H, Flash, Underwater, Custom 1, Custom 2 * The color of faces is evaluated in Face AiAF.
-------	--

## Shutter, Aperture

Shutter Type	Mechanical shutter and electronic shutter
Aperture Type	Iris type
Shutter Speeds	1 – 1/4000 sec. 15 – 1/4000 sec. (Total shutter speed range) <ul style="list-style-type: none"><li>• Shutter speeds vary depending on the shooting modes.</li><li>• The following shutter speeds are available in Tv mode or M mode: 15, 13, 10, 8, 6, 5, 4, 3.2, 2.5, 2, 1.6, 1.3, 1, 0.8, 0.6, 0.5, 0.4, 0.3, 1/4, 1/5, 1/6, 1/8, 1/10, 1/13, 1/15, 1/20, 1/25, 1/30, 1/40, 1/50, 1/60, 1/80, 1/100, 1/125, 1/160, 1/200, 1/250, 1/320, 1/400, 1/500, 1/640, 1/800, 1/1000, 1/1250, 1/1600, 1/2000, 1/2500, 1/3200, 1/4000 (Unit: sec.)</li><li>• Tv bar is displayed in Av mode or M mode.</li></ul>
f/number	f/2.8 – f/8.0* (W) / f/4.5 – f/8.0* (T) * Up to f/9.0 when in Auto mode. <ul style="list-style-type: none"><li>• The following f/numbers are available in Av mode or M mode: W: f/2.8, 3.2, 3.5, 4.0, 4.5, 5.0, 5.6, 6.3, 7.1, 8.0 T: f/4.5, 5.0, 5.6, 6.3, 7.1, 8.0</li><li>• Av bar is displayed in Tv mode or M mode.</li></ul>

## Flash

<Built-in>	
Flash Modes	Auto, on, Slow Synchro, off <ul style="list-style-type: none"><li>• Facial brightness is also evaluated in Face AiAF.</li></ul>
Flash Range	50 cm – 7.0 m (W), 50 cm – 4.0 m (T) (1.6 – 23 ft. (W), 1.6 – 13 ft. (T)) <ul style="list-style-type: none"><li>• Image edge brightness may diminish depending on the shooting distance.</li></ul>

Fastest Flash Synchro Shutter Speed	1/2000 sec.
Recycling Time (Full Flash)	10 sec. or less (battery voltage: 7.4 V)
Flash Output Compensation	±2 stops in 1/3-stop increments
Manual Flash Output Setting	3 steps
FE Lock	Available
Auto Red-Eye Correction	Available • Not available with RAW setting
Red-Eye Reduction	Available
Second-curtain Synchro	Available
Safety FE	Available

<External>

Recommended Flash and Accessory	Canon Speedlite 270EX, 430EX II, 580EX II Macro Ring Lite MR-14EX Macro Twin Lite MT-24EX Transmitter ST-E2
Attachment Method	Hot shoe For Macro Ring Lite MR-14EX and Macro Twin Lite MT-24EX, use the Conversion Lens Adapter (LA-DC58K), Bracket (BKT-DC1) and the Off Camera Shoe Cord (OC-E3)
Control Method	Mutual communications through Sync. contact
Variable Light Control	E-TTL
Maximum Flash Synchro Shutter Speeds	1/250 sec.
Recycling Time (Full Flash)	Depending on the attached speedlite
Flash Output Compensation	±3 stops in 1/3-stop increments
Manual Flash Output Setting	22 levels (580EX II) 19 levels (270EX, 430EX II)
Wireless Flash	Available (580EX II) • On/Off only.
FP Flash	Available
FE Lock	Available
Red-Eye Reduction	Available • Not available with RAW setting
Slow Synchro	Available
Second-curtain Synchro	Available
High Speed Synchro	Available
Auto Zoom Control	Available (430EX II, 580EX II)
Color Temperature Communication	Available
Safety FE	Available

<Supplemental>

Recommended Flash	High-Power Flash HF-DC1
Mounting Method	Mount with the supplied bracket BKT-DC1
Trigger System	Detects the light from the pre-flash and flash of the camera's built-in flash

## Shooting Specifications

### <Still Images, Movies>

#### Shooting Modes

C2, C1, M, Av, Tv, P, Auto\*<sup>1</sup>, Low Light, Quick Shot, SCN\*<sup>2</sup>, Movie

\*1 Automatically detects the shooting scene.

\*2 Portrait, Landscape, Night Snapshot, Kids & Pets, Indoor, Sports, Sunset, Night Scene, Fireworks, Beach, Underwater, Aquarium, Foliage, Snow, Color Accent, Color Swap, Stitch Assist

#### Movie Modes

Standard, Color Accent, Color Swap

#### Digital Zoom

##### Zoom Magnification

Approx. 4.0x, up to approx. 20x in combination with the optical zoom

- In still image mode, digital zoom is not available when the mode is set to RAW or Widescreen

- In movie mode, the optical zoom can be used in shooting standby.

##### Focal Length

(Optical x Digital)

28 (W) – 560 (T) mm (35mm film equivalent)

##### Zoom Position

(Optical x Digital)

7.0x, 8.9x, 11x, 14x, 18x, 20x

##### Safety Zoom

(Stop position:

Optical x Digital)

Large	Medium 1	Medium 2	Medium 3	Small
5.0x	5.0x	7.0x	11x	20x

- Maximum magnification without loss of image quality at each recording pixel setting.

Digital Tele-converter Approx. 1.4x, approx. 2.3x

Magnification	Focal length (35mm film equivalent)
1.4x	39.2 (W) – 196 (T) mm
2.3x	64.4 (W) – 322 (T) mm

#### My Colors

My Colors Off / Vivid / Neutral / Sepia / Black & White / Positive Film / Lighter Skin / Darker Skin / Vivid Blue / Vivid Green / Vivid Red / Custom Color\*

\* Adjustment of contrast, sharpness, saturation, red, green, blue and skin tone are available.

- Saving original image is not available.

- Not available with RAW setting

#### Image Stabilizer

##### Modes

Off, Continuous, Shoot Only, Panning

##### Converter Settings

None / TC-DC58D

#### Camera Start-up Time, Release Time Lag

Mode	LCD Monitor	Camera Start-up Time*	Release Time Lag
Shooting	On	Approx. 1.6 sec.	0.1 sec. or less
	Off	Approx. 1.1 sec.	0.1 sec. or less
Playback	On	Approx. 1.0 sec.	-

\* Under conditions where the flash does not fire automatically.

#### Self-timer Shooting

Approx. 10-sec. delay / approx. 2-sec. delay / Custom\*<sup>1</sup> / Face Self-Timer\*<sup>2</sup>

\*1 Shooting start time (0 – 10 sec. (in one-second increments), 15/20/30 sec.) and number of shots (1 – 10 shots (in one-shot increments)) can be specified.

\*2 When the number of detected faces increases, the shutter is released after 2 sec. delay.

However if no face is detected for 30 seconds or more, the shooting operation starts automatically.

#### Information Display Settings

Press the display button to choose display mode and type of information display.

Display mode: More than 1 type is available from the LCD monitor (2 types)

Type of information : Shooting Information, Grid line, 3:2 Guide, Histogram

## <Still Images>

Noise Reduction

When shutter speed is set between 15 and 1.3 sec.

Bracketing

Focus

3 levels: Large, Medium, Small

AE

Compensation value\* can be selected within a range between 1/3 – 2 stops in 1/3-stop increments

\* The exposure compensation setting can be adjusted higher or lower than the set exposure value.

i-Contrast

Automatic / Off

- Not available with RAW setting

Blink Detection

Available

Rec. Review

Off, 2 – 10 sec. (in one-second increments), Hold

- Magnification and image erasing are also available.

Focus Checker

Available

- Magnification, moving the frame and image erasing are also available.

Night Display

Available

Auto Category

Always On

Category	Shooting Modes
People	Portrait, Night Snapshot, Kids & Pets
Scenery	Landscape, Sunset, Night Scene, Foliage
Events	Indoor, Sports, Fireworks, Beach, Underwater, Aquarium, Snow

- When a face or faces have been detected by Face AiAF, People is also selected regardless of the shooting mode.

Shooting Interval

LCD Monitor	Shooting Interval
On	Approx. 2.5 sec.
Off	Approx. 2.5 sec.

- Under conditions where the flash does not fire automatically.

Continuous Shooting

Mode Selection

Continuous shooting, continuous shooting AF, continuous shooting LV

- Smooth continuous shooting is not available with RAW setting.

Speed

Continuous shooting: Approx. 1.1 shots/sec. (Auto), Approx. 2.4 shots/sec. (Low Light)

Continuous shooting AF: Approx. 0.7 shots/sec.

Continuous shooting LV: Approx. 0.8 shots/sec.

- Under conditions where the flash does not fire automatically.

Number of Shots

<Low Level Format>	Unit: shots
	Large (L)
	F
Speed Class 2	20
Speed Class 4	
Speed Class 6	

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

- Even 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

Not available

Shutter release in vertical position

Not available

(Other than the shutter button)

## Audio Specifications

### <Movies>

Quantization Bit  
Rate/Sampling Rate

	Quantization Bit Rate	Sampling Rate
Standard, Color Accent, Color Swap	16 bits	44.100 kHz

Input Level Adjustment Auto

Input Level Indicator Not Available

Wind Filter Available

Microphone, Speaker Available

## Recording Specifications

### <Still Images, Movies>

Recording Media SD memory card, SDHC memory card, MultiMediaCard, MMC*plus* card, HC MMC*plus* card

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) / RAW (CR2)\*

\* Digital Photo Professional (DPP) is used for RAW development.

Movies: MOV (Image data: H.264; Audio data: Linear PCM (monaural))

### Folder Settings Management

Capacity Max. 900 folders

- Up to 2,000 files can be stored per folder.

Folder Creation Daily / Monthly

### <Still Images>

Color Space Standard (sRGB)

Compression Fine, normal

Number of Recording Pixels Unit: pixels

Large	3648×2736
Medium 1	2816×2112
Medium 2	2272×1704
Medium 3	1600×1200
Small	640×480
Wide	3648×2048
RAW	3648×2736
Medium*	1824×1368

\* Low Light mode

### Recording Capacity

Unit: images

	Large (L)		Medium 1 (M1)		Medium 2 (M2)		Medium 3 (M3)		Small (S)		Widescreen (W)		RAW		Medium (M)*	
	F	N	F	N	F	N	F	N	F	N	F	N	RAW	+JPG	F	N
File Size (KB)	2565	1226	1620	780	1116	556	558	278	150	84	1920	918	12825	15390	706	353
2GB	749	1536	1181	2363	1707	3235	3235	6146	10245	15368	1007	2048	135	113	2560	4728
8GB	2994	6140	4723	9446	6822	12927	12927	24562	40937	61406	4026	8187	540	455	10234	18894

• The approximate number of images recordable on memory cards other than the above can be calculated by using the above figures as a reference and extrapolating accordingly.

\* Low Light mode.

## <Movies>

### Recording Pixels, Frame Rate

	Recording Pixels	Frame Rate
Standard, Color Accent, Color Swap	640×480	30fps
	320×240	30fps

### Maximum Recording Length per Clip

Standard, Color Accent, Color Swap: Continuous recording is possible until the file size reaches 4 GB\*

\*Even if the file size has not reached 4 GB, the recording stops when the recording time reaches one hour. For lesser capacity memory cards than 4 GB, the recording stops when the card fills or the recording time reaches one hour.

#### <Low Level Format>

	Standard, Color Accent, Color Swap	
	640×480 30fps	320×240 30fps
Speed Class 2		
Speed Class 4		
Speed Class 6		

■: Continuous recording is possible until the file size reaches 4 GB, the memory card fills, or the recording time reaches one hour.

### Recording Time

#### <Low Level Format>

	Standard, Color Accent, Color Swap	
	640×480 30fps	320×240 30fps
Movie Size (KB/sec.)	1402	480
2GB	22min. 45sec.	1hr. 04min. 01sec.
8GB	1hr. 30min. 57sec.	4hrs. 15min. 51sec.

• The approximate recording time on memory cards other than the above can be calculated by using the above figures as a reference and extrapolating accordingly.

## Playback Specifications

### <Still Images, Movies>

#### Easy

Not available

#### Auto Rotate (Automatic vertical/horizontal detection)

Image orientation is automatically detected so that images taken vertically will display vertically on the screen, and images taken horizontally will display horizontally. However, movie orientation will be fixed when shooting begins.

#### Resume Playback

Last seen, Last shot

• Movie playback will resume from the last frame displayed when playback is interrupted partway through in the prior viewing session.

#### Image Advance

##### Operation tools

Buttons, control dial

##### Playback Effects

3 types

##### Scroll Display

Available



Rotate	Rotates each image to 90 degrees, 180 degrees, or 270 degrees <ul style="list-style-type: none"> <li>• Both the LCD monitor and video output play back the image according to settings.</li> <li>• Rotation not available in HD</li> </ul>
My Category	Select (People, Scenery, Events, Category 1 – 3, To Do), Select Range (Select first and last image) <ul style="list-style-type: none"> <li>• Using Categories to search, erase, and protect images, add images to a slideshow, and add images to a print list is available</li> </ul>
Jump	Date* <sup>1</sup> / My Category* <sup>1</sup> * <sup>2</sup> / Still Images* <sup>1</sup> / Movies* <sup>1</sup> / 10 images/ 100 images <ul style="list-style-type: none"> <li>*<sup>1</sup> Playback with a selected search key is available</li> <li>*<sup>2</sup> Can also jump to images with no assigned category</li> </ul>
Filter Playback	Available in the Jump menu (see Jump)
Slideshow	
Playback interval	3 – 10 sec., 15 sec., 30 sec.
Repeat	Available
Transition Effects	6 Types
Playlist	All images / All filtered images
Active Display	Not available

#### <Still Images>

Maximum Playback Pixels	5616 x 3744
Playback Modes	Single, index *, Magnification (Approx. 2x – 10x) <ul style="list-style-type: none"> <li>* The number of thumbnails can be set as following depending on the aspect ratio</li> <li>4:3: 2 x 2, 3 x 3, 6 x 6, 10 x 10</li> <li>16:9: 3 x 2, 4 x 3, 8 x 6, 13 x 10</li> </ul>
RAW Playback (CR2 data type)	Not available <ul style="list-style-type: none"> <li>• RAW image can be viewed by the JPEG image recorded simultaneously.</li> </ul>
Red-Eye Correction	Available <ul style="list-style-type: none"> <li>• Not available for RAW images</li> </ul>
i-Contrast	Available <ul style="list-style-type: none"> <li>• Not available for RAW images</li> </ul>
Trimming	Available <ul style="list-style-type: none"> <li>• Not available for RAW, W, S, or XS images</li> </ul>
Resize	Available <ul style="list-style-type: none"> <li>• Recording pixels after resizing: 1600 x 1200 / 640 x 480 / 320 x 240</li> <li>• Not available for RAW, W or XS images</li> </ul>
My Colors	Vivid, Neutral, Sepia, Black & White, Positive Film, Lighter Skin Tone, Darker Skin Tone, Vivid Blue, Vivid Green, Vivid Red <ul style="list-style-type: none"> <li>• Not available for RAW images</li> </ul>
Focus Checker	Available <ul style="list-style-type: none"> <li>• Magnification, moving the frame and image erasing are also available.</li> <li>• Face detection function is available during image playback.</li> </ul>
Histogram	Available
Overexposure Warning	Available

## <Movies>

Playback Functions	Normal playback <sup>*1</sup> , slow motion <sup>*2</sup> , pause, first frame, last frame, next frame, and previous frame selectable. Fast forward and fast rewind are available. • Displays playback position and shooting time. <sup>*1</sup> 5 Audio level settings available <sup>*2</sup> 5 levels (including normal playback), sound not available
Editing	Unwanted portions can be deleted (See <i>Erasing Specifications</i> )
Editing Unit	1-sec. increments
Compatibility	See the 3-6 <i>Playback Compatibility</i>

## Printing Specifications See the 3-5 *Direct Print*

Direct Print	PictBridge
DPOF (Version 1.1)	
Print Specification	Select images & quantity (Qty.) for printing*, select range, select all images (all filtered images) • Up to a total of 998 images can be specified. * Up to 99 prints of one image can be specified (other options except 'Select images & Qty.' allow only one print per image).
Print List	Available • Also available while in Rec. Review
Print Settings	Print Type (standard, index, both), Date, File No. • [Clear DPOF data] can be selected.

## Erasing Specifications

Erasing Modes	Select image, select range, select all images (all filtered images) • The image data in the memory card stored with the design rule for camera file systems format can be erased. (However, protected images cannot be erased.) • Erasing a portion of movie (in one-second increments) available using the movie editing function.
Protect (camera)	Select image, select range, select all images (all filtered images) • Prevents still images and movies protected on camera (specify at playback) from being deleted.

## Interface

Digital Interface	Hi-Speed USB <sup>*1</sup> (Dedicated connector (female) with unified type of digital, audio and video <sup>*2</sup> ) HDMI (HDMI™ mini connector) <sup>*1</sup> Use of USB logomark is not allowed. <sup>*2</sup> mini-B compatible.
Communication Settings	MTP, PTP
Analog Audio Output	Monaural (dedicated connector (female) with unified type of digital, audio and video)
Analog Video Output	NTSC or PAL (dedicated connector (female) with unified type of digital, audio and video)

## Others

Display Languages	26 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, Farsi and Japanese) * The models for Japanese market available with 2 languages (Japanese and English) only.															
Battery Level Indicator	3 steps • Blinks when the battery charge is low.															
My Camera	Set in Sound Options or Start-up Image															
Selectable Items	Start-up image, start-up sound, operation sound, self-timer sound, shutter sound* * Synchronized with the actual shutter speed.															
Number of Choices	3 choices (Off is also selectable.) 1: Canon original images and sounds (Cannot be customized) 2: Canon original images and sounds (Cannot be customized) 3: Customizable by the user* • The simulated shutter sound of Canon F1 is registered to the 1st option and Canon T90 is registered to the 2nd option as a factory default. * Canon original contents are registered to the 3rd option as a factory default.															
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*) * Only available in Japan and Europe.															
Specifications	<table><tr><th>Item</th><th colspan="2">Specifications</th></tr><tr><td>Start-up image</td><td colspan="2">320 x 240 pixels, JPEG file with 4:2:0 or 4:2:2, aspect ratio of 4 : 3, 20 KB or less</td></tr><tr><td>Start-up sound</td><td rowspan="4">WAVE (monaural) 8 bits</td><td>11 kHz: 1.0 sec. or less</td></tr><tr><td>Operation sound</td><td>11 kHz: 0.3 sec. or less</td></tr><tr><td>Self-timer sound</td><td>11 kHz: 2.0 sec. or less</td></tr><tr><td>Shutter sound</td><td>11 kHz: 0.3 sec. or less</td></tr></table>	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 bits	11 kHz: 1.0 sec. or less	Operation sound	11 kHz: 0.3 sec. or less	Self-timer sound	11 kHz: 2.0 sec. or less	Shutter sound	11 kHz: 0.3 sec. or less
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 bits	11 kHz: 1.0 sec. or less														
Operation sound		11 kHz: 0.3 sec. or less														
Self-timer sound		11 kHz: 2.0 sec. or less														
Shutter sound		11 kHz: 0.3 sec. or less														
My Menu	Available • Five items in the Rec. menu can be registered															
Lens Retraction Timing	0 sec. (immediately), 1 min. later															
Date Function																
Date Stamp	Date, Date&time • Available in all recording pixels.															
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 and year/month/day Horizontal position: hour/minute/second • Also available during playback.															
Display Time	Not selectable (will display until a button is pressed)															
Display Colors	4 colors															
World Time Display	Home city (region) and destination city (region) can be selected from 32 choices															

Mute	Available (including warning sound*) * Except when trying to open the battery cover while the data is being written.
Volume	5 levels (Start-up Vol., Operation Vol., Selftimer Vol., Shutter Vol.)
Shortcut Settings	Not Assigned (default), ND filter, white balance, custom white balance 1 (acquisition of white data), custom white balance 2 (acquisition of white data), Servo AF, digital tele-converter, red-eye correction, i-Contrast, AF Lock, display off
Hints & Tips Display	Available
Reset of All Settings	Available
Wireless Controller	Not available
Remote Switch	Available

## Power Supplies

Primary Batteries	Not available
Secondary Batteries	Battery Pack NB-7L (Lithium-ion rechargeable battery)
AC Adapter	AC Adapter Kit ACK-DC50
Car Battery Adapter	Not available
Sub-battery	MS lithium secondary battery MS614
Charging Time	Approx. 4 hours (charged from the main battery)
Duration Life	Approx. 3 weeks (after the sub-battery is fully charged and the main battery is removed.)

### Battery Capacity

#### Number of Images Shot

CIPA Standard compliant (LCD monitor On)	Canon Standard (LCD monitor Off)
Approx. 390 shots	Approx. 1000 shots

Shooting mode [Quick Shot] : Approx. 340shots (LCD monitor On)

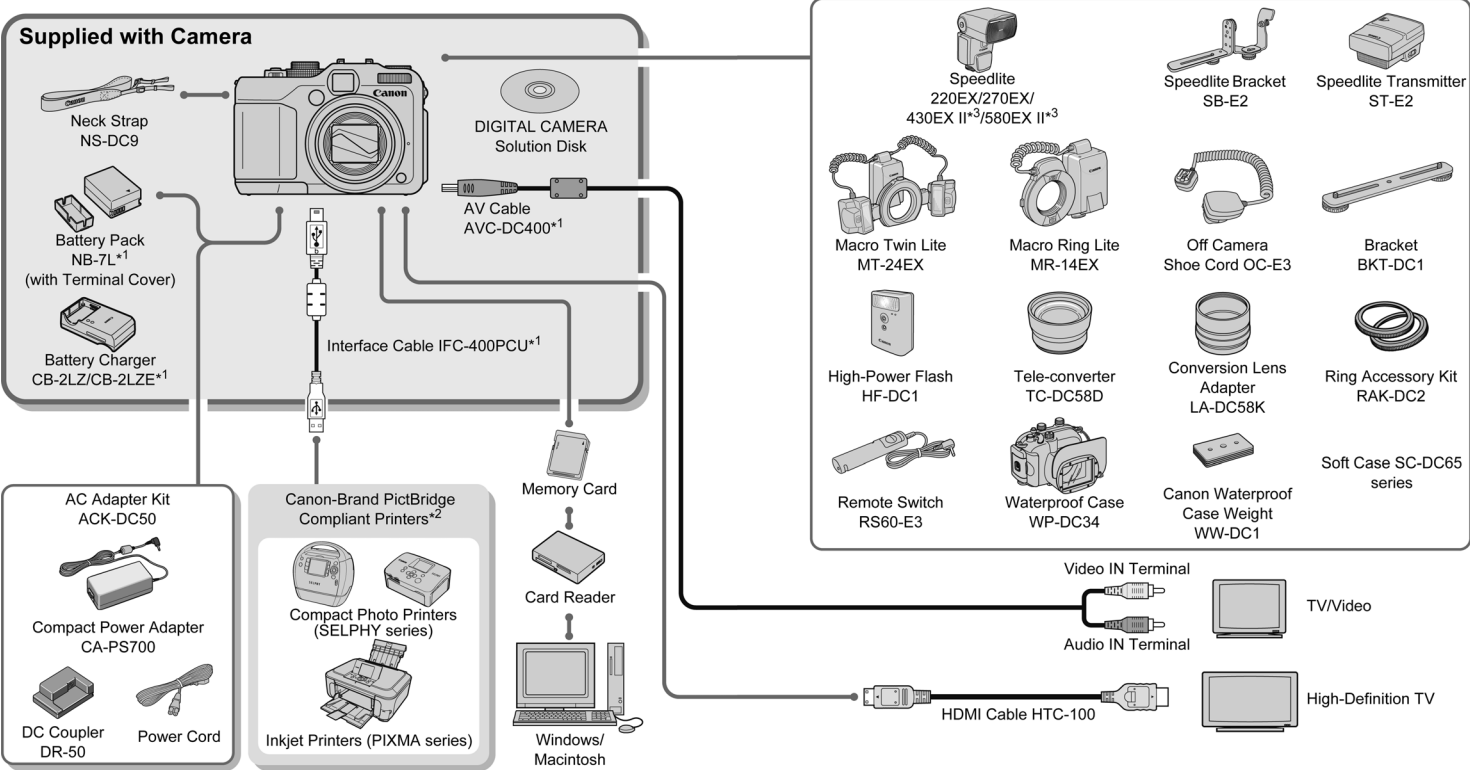
Playback Time	Approx. 7 hours
Power Saving Function	
Auto Power Down (when idle)	Shooting mode: Approx. 3 min. later Playback mode: Approx. 5 min. later Connection to printer: Approx. 5 min. later During slide show/connection to computer: the power saving function does not activate.
Display Off	10/20/30 sec., 1/2/3 min. • 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)	112.1 x 76.2 x 48.3 mm (4.41 x 3.00 x 1.90 in.)
Weight (camera body only)	Approx. 355 g (12.5 oz.)

3-2 System Diagram

Accessories






























**CAUTION**  
RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE.  
DISPOSE OF USED BATTERIES ACCORDING TO LOCAL REGULATION.

\*1 Also available for purchase separately.  
\*2 See the user guide supplied with the printer for more information on the printer and interface cables.  
\*3 Speedlite 430EX and 580EX may also be used.

### 3-3 Functions Available in Each Shooting Mode

[illegible]

FUNC. Menu			FUNC. Menu																																																																																																																																																																																																																								
White Balance		*1																																																																																																																																																																																																																									

\*1 The available settings depend on the registered shooting modes.

\*4 ⚡ not available.

○ Selectable, or set automatically. — Not selectable.

\*2 \* if the flash fires

\*5 RAW not selectable.

\*3 MF, AF lock and  set to .

\*6 Fixed to **M**.

\*7 Recording pixel setting **W** not

## 3-4 Menus

### 3-4-1 Shooting Menu

Shooting modes			SCN																														
Function			C1	C2	M	Av	Tv	P	AUTO	☀	📷	📷	📷	📷	📷	📷	📷	📷	📷	📷	📷	📷	📷	📷	📷	📷	📷	📷	📷	📷			
AF Frame	Face AiAF		*1	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	*6	*6	
	Center		*1	*2	*2	*2	*2	—	—	—	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	—	—	
	FlexiZone		*1	*2	*2	*2	*2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Digital Zoom	Standard		*1	○	○	○	○	○	—	—	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	—	—	○	—
	Off		*1	○	○	○	○	○	○	—	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	Digital Tele-Converter (1.4x/2.3x)		*1	○	○	○	○	○	○	—	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	—	—	—	—
AF-Point Zoom	On/Off		*1	○	○	○	○	○	○	—	○	○	○	○	○	○	—	○	○	○	○	○	○	○	○	○	○	○	○	○	—	—	—
Servo AF	On/Off		*1	○	○	○	○	○	*3	○	—	○	○	○	○	○	○	○	○	—	○	○	○	○	○	○	○	○	○	○	—	—	—
Continuous AF	On/Off		*1	○	○	○	○	○	*5	—	*5	○	○	○	—	○	*5	○	○	—	○	○	○	○	○	○	○	○	○	○	—	—	—
AF-assist Beam	On/Off		*1	○	○	○	○	○	○	○	○	○	○	○	○	○	—	○	○	—	○	○	○	○	○	○	○	○	○	○	○	○	○
MF-Point Zoom	On/Off		*1	○	○	○	○	○	—	○	—	○	○	○	○	○	—	○	○	—	○	○	○	○	○	○	○	○	○	○	—	—	—
Safety MF	On/Off		*1	○	○	○	○	○	—	○	—	○	○	○	○	○	—	○	○	—	○	○	○	○	○	○	○	○	○	○	—	○	○
Flash Control	Flash Mode	Auto	*1	—	○	○	○	○	○	○	○	○	○	○	○	○	—	○	○	—	○	○	○	○	○	○	○	○	○	○	○	—	—
		Manual	*1	○	○	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Flash Exp. Comp	–2 to +2	*1	—	○	○	○	○	—	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Flash Output	Minimum/Medium/Maximum	*1	○	○	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Shutter Sync.	1st-curtain/2nd-curtain	*1	○	○	○	○	—	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Red-Eye Corr.	On/Off	*1	○	○	○	○	○	○	○	○	○	○	○	○	○	—	○	○	—	○	○	○	○	○	○	○	○	○	—	—	—	
	Red-Eye Lamp	On/Off	*1	○	○	○	○	○	○	○	○	○	○	○	○	○	—	○	○	—	○	○	○	○	○	○	○	○	○	○	—	—	
	Safety FE	On/Off	*1	—	○	○	○	○	*5	*5	○	*5	*5	*5	*5	*5	—	*5	*5	—	*5	*5	*5	*5	*5	*5	*5	*5	*5	*5	—	—	
i-Contrast	Auto/Off		*1	○	○	○	○	○	*4	*4	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Spot AE Point	Center/AF Point		*1	○	○	○	○	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Safety Shift	On/Off		*1	—	○	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Wind Filter	On/Off		*1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	○	○	○	
Review	Off/2 – 10 sec./Hold		*1	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	—	—
Review Info	Off/Detailed/Focus Check		*1	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	—	—
Blink Detection	On/Off		*1	○	○	○	○	○	○	○	○	○	○	○	○	○	—	○	○	—	○	○	○	○	○	○	○	○	○	○	—	—	—
Custom Display	Shooting Info		*1	○	○	○	○	○	○	—	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	Grid Lines		*1	○	○	○	○	○	○	○	—	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	△	○	○
	3:2 Guide		*1	○	○	○	○	○	○	○	—	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	△	△	△
	Histogram		*1	○	○	○	○	△	△	—	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△	△
Reverse Disp.	On/Off		*1	○	○	○	○	○	○	○	—	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	—	○	○
IS Mode	Continuous/Off/Shoot Only/Panning		*1	○	○	○	○	○	*5	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
Converter	None/TC-DC58D		*1	○	○	○	○	○	○	○	—	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
Date Stamp	Off/Date/Date & Time		*1	○	○	○	○	○	○	—	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	—	—	—
Record  +	On/Off		*1	○	○	○	○	○	—	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Set Shortcut button			*1	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
Save Settings			○	○	○	○	○	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

\*1 The available settings depend on the registered shooting modes.

\*2 [Center] when the LCD monitor is off; [FlexiZone] when it is on.

\*3 [On] when subject movement is detected.

\*4 Fixed to [Auto].

\*5 Fixed to [On].

\*6 AiAF

○ Selectable, or set automatically. △ Selectable only, no settings available. — Not selectable

## 3-4-2 Set up Menu

Item	Options/Summary
Mute	On/Off*
Volume	Set all operation sounds (5 levels)
Sound Options	Set the sounds for each camera operation.
Hints & Tips	On*/Off
LCD Brightness	Set within a range of $\pm 2$ .
Start-up Image	Add an image as start-up image.
Format	Formats memory card, erasing all data
File Numbering	Continuous*/Auto Reset
Create Folder	Monthly*/Daily
Lens Retract	1 min.*0 sec.
Power Saving	Auto Power Down: On*/Off Display Off: 10, 20 or 30 sec./1*, 2 or 3 min.
Time Zone	Home/World
Date/Time	Date and time settings
Distance Units	m/cm* ft/in
Video System	NTSC/PAL
Language	Choose display language.
Reset All	Returns camera to default settings.

\* Default setting

## 3-4-3 Playback Menu

Item	Options/Summary
Slideshow	Plays back images automatically.
Erase	Erases images.
Protect	Protects images.
Rotate	Rotates images.
My Category	Categorizes images.
i-Contrast	Corrects dark portions and contrast in still images.
Red-Eye Correction	Corrects red eyes in still images.
Trimming	Trims portions of still images.
Resize	Resizes and saves still images.
My Colors	Adjusts colors in still images.
Scroll Display	On*/Off
Resume	Last seen*/Last shot
Transition	Fade*/Slide 1/Slide 2/Off

\* Default setting

## 3-4-4 Print Menu

Item	Options/Summary
Print	Displays printing screen.
Select Images & Qty.	Chooses individual images for printing.
Select Range	Chooses starting and ending images for printing.
Select All Images	Chooses all images for printing.
Clear All Selections	Cancels all settings for printing.
Print Settings	Sets the printing style.



## 3-5 Direct Print

### 3-5-1 Print Features of Direct Print

#### • Printing with SELPHY CP Series Printers

Cameras and printers in the table use names for the Japanese market. However, products not sold in Japan use overseas names.

Product Name	CP730 / 720 / 710 / 530 / 520 / 510 / 500 / 400 CP330 / 220, CP-300 / 200 / 100 / 10	CP750 / 740	CP600, ES1	ES2 / 20, ES3 / 30 CP770 / 760	CP780/CP790 ES40
PowerShot G3 / G2 PowerShot S45 / S40 / S30 PowerShot A40 / A30 / A20 / A10 / A200 / A100 IXY DIGITAL 320 / 300a / 200a / 300 / 200	①				Can not be connected
PowerShot Pro1 PowerShot G5 PowerShot S1 IS / S50 PowerShot A60 / A60 / A300 IXY DIGITAL 400 / L / 30					④
PowerShot G6 PowerShot S70 / S80 PowerShot A95 / A85 / A75 / A520 / A510 / A400 / A310 IXY DIGITAL 500 / 450 / L <sup>2</sup> / 50 / 40 / 30a	②				⑤
IXY DIGITAL 700 / 600 / 60 / 55 / L <sup>3</sup> / WIRELESS PowerShot A620 / A610 / A410					⑥
PowerShot S3 IS / S2 IS / S80 PowerShot A700 / A540 / A530 / A430 / A420 IXY DIGITAL 800 IS / 80 / 70	③ / (⑥: When connecting with PictBridge)				⑦
PowerShot G7 PowerShot A710 IS / A640 / A630 IXY DIGITAL 1000 / 900 IS / L <sup>4</sup> Cameras released in 2007 / Cameras released in 2008					⑦
Cameras released in 2009 2nd half	Cannot connect to CP100/10				



### Canon Direct Print features

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

#### [NOTE]

<sup>\*1</sup> 1 to 99 copies can be set per image.

<sup>\*2</sup> Prints one image per page.

<sup>\*3</sup> 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.

<sup>\*4</sup> 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].





<sup>\*5</sup> When the print type is set to [Index], the [Date] cannot be printed.

<sup>\*6</sup> When the print type is set to [Standard], the [File Number] cannot be printed.

<sup>\*7</sup> Communication setting with the printers (CP750/740/730/720/710/520/510) needs to be changed to PictBridge for full-sized borderless printing on wide-size paper.



### PictBridge features

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

#### [NOTE]

<sup>\*1</sup> Uses the camera's shooting information to optimize the image data.

<sup>\*2</sup> Red-eye correction only.

<sup>\*3</sup> Red-eye + NR + Face brightness adjustment.

<sup>\*4</sup> 1 to 99 copies can be set per image.

<sup>\*5</sup> For the usable paper size, refer to the printer user guide.

<sup>\*6</sup> Default only.

<sup>\*7</sup> Prints 2, 4 or (8) images on a single sheet of paper. (8 can only be selected when printing on credit card size paper.)

<sup>\*8</sup> 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.

<sup>\*9</sup> Only available with cameras supporting Movie Print (in single frames) function.

<sup>\*10</sup> 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)

Cameras and printers in the table use names for the Japanese market. However, products not sold in Japan use overseas names. The models highlighted in **red text** were added this time.

Product Name	PIXUS 470PD / 450 / 501 / SJ 895PD / F890PD	PIXUS MP390 / MP375R / MP370 / PIXUS 475PD / 455 / 801	PIXUS 865R / 860 / 5601	PIXUS MP900 / PIXUS P9910 / 9000 / 990 / 960 / 900PD / SELPHY DS700	PIXUS MP790 / MP770 / PIXMA MP750 / P8100 / P7100 / P6100 / P4100 / P2100 / P61 / P60 / PIXMA IP5000	PIXUS IP4200	PIXUS MP500 / MP170 / PIXMA MP530 / MP450 / MP150 / PIXMA P6220 / P6210 / PIXUS mini220 / SELPHY DS810	PIXUS MP980 / MP830 / MP800 / MP80R / PIXUS P7500 / P6600 / P5200 / P5200R	PIXUS IP6700D / IP6320D / IP6310D	PIXUS ix5000 / PIXMA ix4000 / PIXUS IP4300 / IP3500 / IP3300	PIXUS MP510 / MP460 / PIXMA MP180 / MP160	PIXUS Pro9500 / M41 / 9500 / Pro9500 M41 / 9000	PIXUS M6760 / M6650 / PIXUS MP860 / 870 / 860 / 870 / 810 / 830 / 820 / 870 / 810 / 840 / 830 / 470 / PIXMA M6700 / 510 / 500 / MP900R / PIXMA IP3500 / 4600 / 4500 / PIXUS mini950 / 320 / 290	PIXMA MP480 / 240 / 220 / 210 / M6330/320
PowerShot G3 / G2 / PowerShot S45 / S40 / S30 / IXY DIGITAL 320 / 300a / 200a	Bubble Jet Direct is not available													
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	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪			
PowerShot A520 / A510 / IXY DIGITAL L <sup>2</sup> / 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 / L <sup>3</sup> / 80 / 70 / 60 / WIRELESS														
PowerShot G7 / PowerShot A710 IS / A640 / A630 / IXY DIGITAL 1000 / 900 IS / L <sup>4</sup> / Cameras released in 2007 / Cameras released in 2008														
Cameras released in 2009 2nd half	Bubble Jet Direct is not available													



## Bubble Jet Direct features

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

[NOTE]

<sup>1</sup> 1 to 99 copies can be set per image.

<sup>2</sup> For the usable paper size, refer to the printer user guide.

<sup>3</sup> 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

		②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪
◆: Canon proprietary feature											
Easy Print	Single Image Print	○	○	○	○	○	○	○	○	○	○
	Date and File Number Print	Date	○	○	○	○	○	○	○	○	○
		File Number	×	×	×	×	×	×	×	×	×
	Setting the Print Effect	Auto <sup>1</sup> (On/Off)	○	○	○	○	○	○	○	○	○
		VIVID / NR / VIVID+NR	×	△ <sup>2</sup>	○ <sup>17</sup>	○ <sup>17</sup>	○ <sup>17</sup>	○	○	○	○ <sup>17</sup>
		Face brightness adjustment	×	×	×	×	×	×	×	×	×
		Red-eye1 correction <sup>3</sup>	×	×	×	×	×	×	×	×	×
		Red-eye2 correction <sup>4</sup>	×	×	×	×	×	×	×	×	×
	Setting the Number of Copies <sup>5</sup>	○	○	○	○	○	○	○	○	○	○
	Setting the Print Area (Trimming)	○	○	○	○	○	○	○	○	○	○
	Selecting the Paper Size <sup>6</sup>	○	○	○	○	○	○	○	○	○	○
	Selecting the Paper Type <sup>7</sup>	○	○	○	○	○	○	○	○	○	○
	Setting the Layout	Borderless / Bordered	○	○	○	○	○	○	○	○	○
		N-up <sup>8</sup>	×	×	×	○ <sup>9*17</sup>	○ <sup>9*17</sup>	○ <sup>17</sup>	○ <sup>9</sup>	○ <sup>9</sup>	○ <sup>17</sup>
		Fixed Size <sup>10</sup>	×	×	×	×	×	×	×	×	×
		ID Photo Print	×	×	×	×	×	×	×	×	×
		20 image index with shooting information <sup>11</sup>	×	×	×	×	×	×	○	○	×
		Contact-sheet type 35 image index <sup>12</sup>	×	×	×	×	×	×	○	○	×
Printing with DPOF Print Settings	Movie Print	Print with the shooting information <sup>13</sup>	×	×	×	×	×	×	○	○	×
		Sequence-frame	×	×	×	×	×	×	×	×	×
		Single-frame <sup>14</sup>	○	○	○	○	○	○	○	○	○
	Several Selected Images Print	○	○	○	○	○	○	○	○	○	○
	All Image Print	○	○	○	○	○	○	○	○	○	○
	Selecting the Print Type	Standard	○	○	○	○	○	○	○	○	○
		Index	○	○	○	○	○	○	○	○	○
		Both (Standard + Index)	○	○	○	○	○	○	○	○	○
	Date and File Number Print	Date <sup>15</sup>	○	○	○	○	○	○	○	○	○
		File Number <sup>15-16</sup>	×	×	×	×	×	×	×	×	×
	Setting the Print Effect	Auto <sup>1</sup> (On/Off)	○	○	○	○	○	○	○	○	○
		VIVID / NR / VIVID+NR	×	△ <sup>2</sup>	○ <sup>17</sup>	○ <sup>17</sup>	○ <sup>17</sup>	○	○	○	○ <sup>17</sup>
		Face brightness adjustment	×	×	×	×	×	×	×	×	×
		Red-eye1 correction <sup>3</sup>	×	×	×	×	×	×	×	×	×
		Red-eye2 correction <sup>4</sup>	×	×	×	×	×	×	×	×	×
	Setting the Number of Copies <sup>5</sup>	○	○	○	○	○	○	○	○	○	○
	Selecting the Paper Size <sup>6</sup>	○	○	○	○	○	○	○	○	○	○
	Selecting the Paper Type <sup>7</sup>	○	○	○	○	○	○	○	○	○	○
	Setting the Layout	Borderless / Bordered	○	○	○	○	○	○	○	○	○
		N-up <sup>8</sup>	×	×	×	○ <sup>9*17</sup>	○ <sup>9*17</sup>	○ <sup>17</sup>	○ <sup>9</sup>	○ <sup>9</sup>	○ <sup>17</sup>
		Fixed Size <sup>10</sup>	×	×	×	×	×	×	×	×	×
		ID Photo Print	×	×	×	×	×	×	×	×	×
		20 image index with shooting information <sup>11</sup>	×	×	×	×	×	×	○	○	×
		Contact-sheet type 35 image index <sup>12</sup>	×	×	×	×	×	×	○	○	×

[NOTE]

<sup>1</sup> Uses the camera's shooting information to optimize the image data.

<sup>2</sup> VIVID only.

<sup>3</sup> Red-eye correction only.

<sup>4</sup> Red-eye + NR + Face brightness adjustment.

<sup>5</sup> 1 to 99 copies can be set per image.

<sup>6</sup> For the usable paper size, refer to the printer user guide.

<sup>7</sup> For the usable paper type, refer to the printer user guide.

<sup>8</sup> 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.

<sup>9</sup> Not available when printing with the PIXUS Pro9500 printer.

<sup>10</sup> 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.

<sup>11</sup> Only available with cameras supporting 20 image index layout with shooting information.

<sup>12</sup> Only available with cameras supporting contact-sheet type 35 image index layout.

<sup>13</sup> Not available when printing without borders.

<sup>14</sup> [Single-frame] is only possible, when the camera corresponds to the Movie print (Single-frame).

<sup>15</sup> When the print type is set to [Index], the [Date] and [File Number] cannot be set at the same time.

<sup>16</sup> When the print type is set to [Standard], the [File Number] cannot be printed.

<sup>17</sup> Not available when connecting with the MP480/240 printer.

### 3-5-2 Connection Methods Between Digital Cameras and Printers

Connection methods between Canon digital cameras (PowerShot series and IXY series) and printers is shown in Table 1

<div> <div>Digital Cameras</div> <div>Printers</div> </div>		PictBridge support	Canon Direct Print / Bubble Jet Direct / PictBridge support			Canon Direct Print / Bubble Jet Direct support	Canon Direct Print support
		Cameras released in 2009 1st/2nd half	Cameras released in 2006, 2007 and 2008	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	-	<div> <div>Canon Direct Print / PictBridge</div> <div>PictBridge</div> </div>				
CP series (Canon Direct Print, PictBridge support)	CP-200/300 CP220/330						-
SELPHY CP series/ ES series (Canon Direct Print, PictBridge support)	CP750/740/730/720/710/530/520/510/500/400						
	ES2/ES1/ES20/ES3/ES30, CP600/770/760						
SELPHY CP series/ ES series (PictBridge support)	CP780/790 ES40						-
PIXMA series (Bubble Jet Direct support)		-					-
PIXMA series (Bubble Jet Direct, PictBridge support)		PictBridge				Bubble Jet Direct	-
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 CP770/760/750/740/730/720/710/530/520/510.

Table 1 The connection between Digital Cameras and Printers

## 3-6 Playback Compatibility

### 3-6-1 Still Images

			Cameras for playback (except SLR cameras)							
			CFcard				SD	SD/MMC*	SD/SDHC/MMC* (MMCplus: TX1 only)	SD/MMC*/SDHC/MMCplus/ HC MMCplus
			ID 400/320/300a/300/200a/200, IXY DIGITAL PS S20/S10 PS A70/A60/A40/A30/A20/A10/A310/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 ID 600/55/50/40/30a/L <sup>2</sup> /L PS S2 IS PS A400	ID 800 IS/700/80/70/60/L <sup>3</sup> /WIRELESS PS S80/A700/A620/A610/A540/A530/A520/A510/A430/A420/A410	ID 1000/900 IS/810 IS/90/10/L <sup>4</sup> PS G7/S3 IS/S5 IS/TX1 PS A710 IS/A640/A630/A570 IS/A560/A550/A460/A450	ID 510 IS/830 IS/210 IS/110 IS PS A2100 IS/A1100 IS/A 480/SX 200 IS/D10 ID 930 IS/220 IS PS G11/S90/SX 20 IS/SX 120 IS ID 3000 IS/2000 IS/920 IS/910 IS/820 IS/95 IS/25 IS/20 IS PS G10/G9/SX1 IS/SX110 IS/SX10 IS/SX100 IS PS A2000 IS/A1000 IS/A720 IS/A650 IS/A 590 IS/A 580/A470 PS E1
Cameras for shooting (except SLR cameras)	CF	ID 500/450/400/320/300a/300/200a/200, IXY DIGITAL PS S1 IS/S20/S10 PS A95/A85/A80/A75/A70/A60/A40/A30/A20/A10/A310/A300/A200/A100	O	O	O	O	□	□	□	□
		PS G6/G5/G3/G2/G1 PS Pro90 IS PS S70/S60/S50/S45/S40/S30	O <sup>*1</sup>	O	O	O <sup>*1</sup>	□ <sup>*1</sup>	□ <sup>*1</sup>	□	□
		PS Pro1	O <sup>*1*2</sup>	O <sup>*2</sup>	O	O <sup>*1</sup>	□ <sup>*1*2</sup>	□ <sup>*1</sup>	□	□
	SD	ID 600/55/50/40/30a/30/L <sup>2</sup> /L PS S2 IS PS A400	□	□	□	□	O	O	O	O
	SD/MMC*	ID 800 IS/700/80/70/60/L <sup>3</sup> /WIRELESS PS A700/A620/A610/A540/A530/A520/A510/A430/A420/A410 PS S80	□	□	□	□	O	O	O	O
	SD/SDHC/ MMC* (MMCplus: TX1 only)	ID 900 IS/90/10/L <sup>4</sup> PS S3 IS/TX1 PS A710 IS/A570 IS/A560/A550/A460/A450	□ <sup>*4</sup>	□ <sup>*4</sup>	□ <sup>*4</sup>	□ <sup>*4</sup>	O <sup>*4</sup>	O <sup>*4</sup>	O <sup>*4</sup>	O
		ID 1000/810 IS PS G7/S5 IS PS A640/A630	□ <sup>*2 *4</sup>	□ <sup>*2 *4</sup>	□ <sup>*4</sup>	□ <sup>*4</sup>	O <sup>*3 *4</sup>	O <sup>*3 *4</sup>	O <sup>*4</sup>	O
	SD/SDHC/ MMC/ MMCplus/ HC MMCplus	ID 510 IS/830 IS/210 IS/110 IS PS A2100 IS/A1100 IS/A 480/SX 200 IS/D10 ID 3000 IS/2000 IS/920 IS/910 IS/820 IS/95 IS/25 IS/20 IS PS G10/G9/SX110 IS/SX110 IS/SX10 IS/SX100 IS PS A2000 IS/A1000 IS/A720 IS/A650 IS/A 590 IS/A 580/A470 PS E1/G11/S90/SX 20 IS/SX 120 IS ID 930 IS/220 IS PS G10/G9, SX1 IS, PS G11, S90 RAW image	□ <sup>*2 *4 *5</sup>	□ <sup>*2 *4 *5</sup>	□ <sup>*4 *5</sup>	□ <sup>*4 *5</sup>	O <sup>*2 *3 *4 *5</sup>	O <sup>*3 *4 *5</sup>	O <sup>*4 *5</sup>	O <sup>*5</sup>
			x	x	x	x	x	x	x	O <sup>*6</sup>

PS : PowerShot

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

O : Playback available

□ : Playback available when interchanging of memory cards

x : Playback not available

<sup>\*1</sup> Thumbnail is displayed for RAW image

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

<sup>\*3</sup> Images recorded in the MMC may not be played-back.

<sup>\*4</sup> Images recorded in the SDHC memory card can not be played-back.

<sup>\*5</sup> Images recorded in the HC MMCplus card can not be played-back.

<sup>\*6</sup> JPEG image is played-back for display purposes.

\* MultiMediaCard

### 3-6-2 Movies

			Cameras for playback														
			CFcard					SD		SD/MMC*			SD/SDHC/MMC* (MMCplus: TX1 only)			SD/MMC*/SDHC/MMCplus/ HC MMCplus	
			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/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 <sup>2</sup> /L PS 400	ID 600/55/ 50/40 PS S2 IS	PS A520/ A510	ID 800 IS/700/80/70/ 60/L <sup>3</sup> / WIRELESS PS S80 PS A700/A620/ A610/A540/A530/ A430/A420/A410	PS S3 IS PS A710 IS/ A640/A630/ A550/A460/ A450	ID 1000/ 900 IS/L <sup>4</sup> PS G7	ID 90/10 PS TX1/ A570 IS/ A560	ID 810 IS PS S5 IS	PS A2100 IS/A1100 IS/A480/ <b>SX 120 IS</b> ID 2000 IS/910 IS/ 820 IS/95 IS/25 IS/20 IS PS G9/SX100 IS/ SX110 IS PS A1000 IS/A2000 IS/A720 IS/A650 IS/ A 590 IS/A 580/A 470 PS E1	ID 510 IS/830 IS/ 210 IS/110 IS PS SX200 IS/D10 ID 3000 IS/920 IS/ PS G10/SX1 IS/ SX10 IS ID <b>930 IS/220 IS</b> PS <b>G11/S90/</b> <b>SX 20 IS</b>
Cameras for shooting	CF	PS G2/G1, PS Pro90 IS, PS S40/S30	×	○	○ <sup>1</sup>	○	○	□	□	□	□	□	□	□	□	□	×
		ID 300a/300/200a/200 PS A40/A30/A200/A100	×	○ <sup>1</sup>	○	○	○	□	□	□	□	□	□	□	□	□	×
		ID 500/450/400/320 PS Pro1/G6/G5/G3/S70/S60/S50/S45 PS A95/A85/A80/A75/A70/A60/A310/A300	×	○ <sup>1</sup>	○ <sup>1</sup>	○	○	□	□	□	□	□	□	□	□	□	×
		PS S1 IS	×	×	×	×	○	×	□	×	□	□	□	□	□	□	×
	SD	ID 30a/30/L <sup>2</sup> /L PS 400	×	□ <sup>1</sup>	□ <sup>1</sup>	□	○	○	○	○	○	○	○	○	○	○	×
		ID 600/55/50/40	×	×	×	×	□	×	○	×	○	○	○	○	○	○	×
		PS S2 IS	×	×	×	×	×	×	×	○	○	○	○	○	○	○	×
	SD MMC*	PS A520/A510	×	□ <sup>1</sup>	□ <sup>1</sup>	□	○ <sup>2</sup>	○ <sup>2</sup>	○	○	○	○	○	○	○	○	×
		ID 800 IS/700/80/70/60/L <sup>3</sup> /WIRELESS PS S80 (except XGA) PS A700/A620/A610/A540/A530/A430/A420/A410	×	×	×	×	□	×	○ <sup>2</sup>	×	○	○	○	○	○	○	×
		PS S80 (XGA)	×	×	×	×	×	×	×	○	○	○	○	○	○	○	×
		PS S3 IS (except 320 x 240, 60fps) PS A710 IS/A640/A630/A550/A460/A450	×	×	×	×	□ <sup>5</sup>	×	○ <sup>2 5</sup>	×	○ <sup>5</sup>	○	○	○	○	○	×
	SD/SDHC/ MMC* (MMCplus: TX1 only)	PS S3 IS (except 320 x 240, 60fps)	×	×	×	×	□ <sup>5</sup>	×	×	×	○ <sup>5</sup>	○	○	○	○	○	×
		PS S3 IS (320 x 240, 60fps)	×	×	×	×	×	×	×	×	×	○	○	○	○	○	×
		ID 1000/900 IS/810 IS <sup>7</sup> /90 <sup>7</sup> /10 <sup>7</sup> /L <sup>4</sup> PS G7/S5 IS/TX1 <sup>4</sup> , PS A570 IS/A560	×	×	×	×	×	×	×	×	×	×	○	○	○	○	×
		PS TX1 (1280 x 720)	×	×	×	×	×	×	×	×	×	×	×	○	×	×	×
		ID 810 IS/90/10 (Time Lapse)	×	×	×	×	×	×	×	×	×	×	×	○	○	○	×
	SD/SDHC/MMC/ MMCplus/ HC MMCplus	PS A2100 IS/A1100 IS/A480 ID 2000 IS/910 IS/820 IS/95 IS/25 IS/20 IS PS G9/SX100 IS/SX110 IS PS A1000 IS/A2000 IS/A720 IS/A650 IS/A 590 IS/ A 580/A 470 PS E1, <b>PS SX 120 IS</b>	×	×	×	×	×	×	×	×	×	×	○ <sup>6</sup>	○ <sup>6</sup>	○ <sup>6</sup>	○	×
		ID 820 IS/95 IS/25 IS/20 IS (Time Lapse) ID 2000 IS/910 IS, PS G9 (Time Lapse)	×	×	×	×	×	×	×	×	×	×	×	○ <sup>6</sup>	○ <sup>6</sup>	○	×
		ID 510 IS/830 IS/210 IS/110 IS PS SX200 IS/D10 PS G10/SX1 IS/SX10 IS ID 3000 IS/920 IS <b>ID 930 IS/220 IS, PS G11/S90/SX 20 IS</b>	×	×	×	×	×	×	×	×	×	×	×	×	×	×	○ <sup>7</sup>

PS : PowerShot

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

○ : Playback available

□ : Playback available when interchanging of memory cards

×

<sup>1</sup> Playback not available when file size or recording time exceeds each limit.

<sup>2</sup> Images recorded in the MMC may not be played-back.

<sup>3</sup> Except Time Lapse Movie

<sup>4</sup> Except 1280 x 720

<sup>5</sup> Images recorded in the SDHC memory card can not be played-back.

<sup>6</sup> Images recorded in the HC MMCplus card can not be played-back.

<sup>7</sup> Full HD movie or HD movies can not played back on a Full HD movie or a HD movie compatible camera.

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## 3-7 List of Accessory and Its Compatibility

### 3-7-1 Camera

- PowerShot G Series, S Series, SX\*(\*\*) Series, Pro Series

	S90	G10 G11	SX1 IS SX10IS SX20 IS	G9 G7	S5 IS S3 IS S2 IS	S80	G6	S70 S60	S1 IS	Pro1	PS G5 PS G3	S50 S45 S40 S30	G2	Pro 90 IS	G1
<Battery>															
NB-2L/2LH	-	-	-	O	-	O	-	O	-	-	-	O	-	-	-
BP-511/511A	-	-	-	-	-	-	O	-	-	O	O	-	O	O	O
BP-512/514	-	-	-	-	-	-	O	-	-	O	O	-	O	-	-
NB4-100/NB4-200	-	-	O	-	O	-	-	-	O	-	-	-	-	-	-
NB4-300	-	-	O	-	O	-	-	-	O	-	-	-	-	-	-
NB-6L	O	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NB-7L	-	O	-	-	-	-	-	-	-	-	-	-	-	-	-
<Adapter/Charger>															
ACK700	-	-	-	-	-	-	-	O	-	-	-	O	-	-	-
ACK-DC20	-	-	-	O	-	O	-	-	-	-	-	-	-	-	-
ACK-DC40	O	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ACK-DC50	-	O	-	-	-	-	-	-	-	-	-	-	-	-	-
CA-PS700 (N)	-	O	O	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-2LT/CB-2LTE	-	-	-	-	-	-	-	O	-	-	-	O	-	-	-
CB-2LW/2LWE	-	-	-	O	-	O	-	-	-	-	-	-	-	-	-
CB-2LY/2LYE	O	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CB-3AH(CBK-100)	-	-	O	-	O	-	-	-	O	-	-	-	-	-	-
CB-4AH(CBK4-200)	-	-	O	-	O	-	-	-	O	-	-	-	-	-	-
CBC-NB2	-	-	-	O	-	O	-	O	-	-	-	O	-	-	-
CB-5AH(CBK4-300)	-	-	O	-	O	-	-	-	O	-	-	-	-	-	-
CB-2LZ/CB-2LZE	-	O	-	-	-	-	-	-	-	-	-	-	-	-	-
<DC Coupler>															
DR-700	-	-	-	-	-	-	-	O	-	-	-	O	-	-	-
DR-20	-	-	-	O	-	O	-	-	-	-	-	-	-	-	-
DR-40	O	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DR-50	-	O	-	-	-	-	-	-	-	-	-	-	-	-	-
<Lens Accessory>															
WC-DC58	-	-	-	-	-	-	-	-	-	-	-	-	O	O	O
WC-DC58N	-	-	-	-	-	-	O	-	-	-	O	-	-	-	-
WC-DC52A	-	-	-	-	-	-	-	-	O	-	-	-	-	-	-
WC-DC58A	-	-	-	-	O	-	-	-	-	-	-	-	-	-	-
WC-DC58B	-	-	-	O	-	-	-	-	-	-	-	-	-	-	-
WC-DC10	-	-	-	-	-	O	-	-	-	-	-	-	-	-	-
TC-DC52B	-	-	-	-	-	-	-	-	O	-	-	-	-	-	-
TC-DC58	-	-	-	-	-	-	-	-	-	-	-	-	O	-	O
TC-DC58N	-	-	-	-	-	-	O	-	-	-	O	-	-	-	-
TC-DC58A	-	-	-	-	-	-	-	-	-	O	-	-	-	-	-
TC-DC58B	-	-	-	-	O	-	-	-	-	-	-	-	-	-	-
TC-DC58C	-	-	-	O	-	-	-	-	-	-	-	-	-	-	-
TC-DC58D	-	O	-	-	-	-	-	-	-	-	-	-	-	-	-
TC-DC10	-	-	-	-	-	O	-	O	-	-	-	-	-	-	-
250D 58mm	-	-	-	-	-	-	O	-	-	-	O	-	O	-	O
500D 52mm	-	-	-	-	-	-	-	-	O	-	-	-	-	-	-
500D 58mm	-	-	-	-	O	-	-	-	-	O	-	-	-	O	-
LA-DC52E	-	-	-	-	-	-	-	-	O	-	-	-	-	-	-
LA-DC58	-	-	-	-	-	-	-	-	-	-	-	-	O	-	O
LA-DC58B	-	-	-	-	-	-	-	-	-	-	O	-	-	-	-
LA-DC58C	-	-	-	-	-	-	-	-	-	O	-	-	-	-	-
LA-DC58D	-	-	-	-	-	-	O	-	-	-	-	-	-	-	-
LA-DC58E	-	-	-	-	O	-	-	-	-	-	-	-	-	-	-
LA-DC58H	-	-	-	O	-	-	-	-	-	-	-	-	-	-	-
LA-DC58K	-	O	-	-	-	-	-	-	-	-	-	-	-	-	-
LA-DC10	-	-	-	-	-	-	-	O	-	-	-	-	-	-	-
LA-DC20	-	-	-	-	-	O	-	-	-	-	-	-	-	-	-
FA-DC58A	-	-	-	-	-	-	-	-	-	O	-	-	-	-	-

	S90	G10 G11	SX1 IS SX10IS SX20 IS	G9 G7	S5 IS S3 IS S2 IS	S80	G6	S70 S60	S1 IS	Pro1	PS G5 PS G3	S50 S45 S40 S30	G2	Pro 90 IS	G1
LH-DC58	-	-	-	-	-	-	-	-	-	-	-	-	-	O	-
LH-DC10	-	-	-	-	-	-	-	-	-	O	-	-	-	-	-
LH-DC20	-	-	-	-	-	-	-	-	O	-	-	-	-	-	-
LH-DC30	-	-	-	-	-	-	O	-	-	-	-	-	-	-	-
LH-DC40	-	-	-	-	O	-	-	-	-	-	-	-	-	-	-
LH-DC50	-	-	O	-	-	-	-	-	-	-	-	-	-	-	-
LAH-DC20	-	-	-	-	O	O	-	-	-	-	-	-	-	-	-
LAH-DC10	-	-	-	-	-	-	-	-	O	-	-	-	-	-	-
RAK-DC1	-	-	-	O	-	-	-	-	-	-	-	-	-	-	-
RAK-DC2	-	O	-	-	-	-	-	-	-	-	-	-	-	-	-
<Speedlite>															
220EX	-	O	O	O	(S5 IS)	-	O	-	-	O	O	-	O	O	O
380EX	-	-	-	-	-	-	O	-	-	O	O	-	O	O	O
420EX	-	-	-	-	-	-	O	-	-	O	O	-	O	O	O
430EX(II)	-	O	O	O	(S5 IS)	-	-	-	-	-	-	-	-	-	-
550EX	-	-	-	-	-	-	O	-	-	O	O	-	O	O	O
580EX	-	O	O	O	(S5 IS)	-	O	-	-	-	-	-	-	-	-
580EX II	-	O	O	O	O	-	O	-	-	-	-	-	-	-	-
(MR-14EX)	-	O	-	-	(S5 IS)	-	O	-	-	O	O	-	O	-	-
(MT-24EX)	-	O	-	-	(S5 IS)	-	O	-	-	O	O	-	-	-	-
HF-DC1	O	O	-	O	O	O	O	O	O	O	O	O	O	O	O
<Wireless Remote Control Unit>															
WL-DC100	-	-	-	-	-	-	O	O	O	O	O	-	O	O	O
WL-DC300	-	-	(SX 1 IS)	-	-	-	-	-	-	-	-	-	-	-	-
RS-60E3	-	O	-	-	-	-	-	-	-	-	-	-	-	-	-
<Cables and Others>															
AVC-DC100	-	-	-	-	-	-	-	-	-	-	O	O	O	O	O
AVC-DC300	-	-	-	O	-	O	O	O	O	O	-	-	-	-	-
AVC-DC400	O	O	-	-	-	-	-	-	-	-	-	-	-	-	-
STV-250N	-	-	O	-	O	-	-	-	-	-	-	-	-	-	-
HTC-100	O	O	(SX 1 IS /SX20 IS)	-	-	-	-	-	-	-	-	-	-	-	-
IFC-200MC	-	-	-	-	-	-	-	-	-	-	-	-	-	O	O
IFC-200PCS	-	-	-	-	-	-	-	-	-	-	-	-	-	O	O
IFC-200PCU	-	-	-	-	-	-	-	-	-	-	-	-	O	O	O
IFC-300PCU	-	-	-	-	-	-	-	-	-	-	O	O	-	-	-
IFC-400PCU	O	O	O	O	O	O	O	O	O	O	-	-	-	-	-
AD-PC98	-	-	-	-	-	-	-	-	-	-	-	-	-	O	O
DIF-100	-	(G10)	O	O	O	O	O	O	O	O	O	O	-	-	-
DIF-200	-	-	-	-	-	-	-	-	-	-	-	-	O	-	-
DIF-B100	-	(G10)	O	O	O	O	O	O	O	O	O	O	-	-	-
DIF-B250	-	-	-	-	-	-	-	-	-	-	-	-	O	-	-
<All Weather Case/Waterproof Case/Waterproof Case Weight>															
WP-DC300	-	-	-	-	-	-	-	-	-	-	-	O	-	-	-
WP-DC20	-	-	-	-	-	-	-	-	O	-	-	-	-	-	-
WP-DC40	-	-	-	-	-	-	-	O	-	-	-	-	-	-	-
WP-DC1	-	-	-	-	-	O	-	-	-	-	-	-	-	-	-
WP-DC11	-	-	-	O (G7)	-	-	-	-	-	-	-	-	-	-	-
WP-DC21	-	-	-	O (G9)	-	-	-	-	-	-	-	-	-	-	-
WP-DC28	-	(G10)	-	-	-	-	-	-	-	-	-	-	-	-	-
WP-DC34	-	(G11)	-	-	-	-	-	-	-	-	-	-	-	-	-
WP-DC35	O	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WW-DC1	O	O	-	O	-	O	-	O	O	-	-	O	-	-	-

## 4 Accessory Specifications

### 4-1 New Accessories

#### 4-1-1 Waterproof Case

Waterproof Capability	Meets IEC/JIS protection rating “IPX8” equivalent For use within a depth of 40m (130 ft.)
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-DC34

### • Specifications

Camera Operating Temperatures	0 – 40°C (32 – 104°F)
Dimensions (excluding protrusions)	153.5 x 107.5 x 119.1 mm (6.04 x 4.23 x 4.69 in.)
Volume	Approx. 1150 cm <sup>3</sup> (38.9 fl oz. (US))* <sup>1</sup>
Weight	Approx. 575 g (20.3 oz.) (Waterproof Case only* <sup>1</sup> ) Approx. 980 g (34.6 oz.) (Waterproof Case* <sup>1</sup> and camera body* <sup>2</sup> )
Number of Separately Sold Waterproof Case Weights (WW-DC1) Recommended for Mounting	4 weight

\*<sup>1</sup>Including diffusion plate

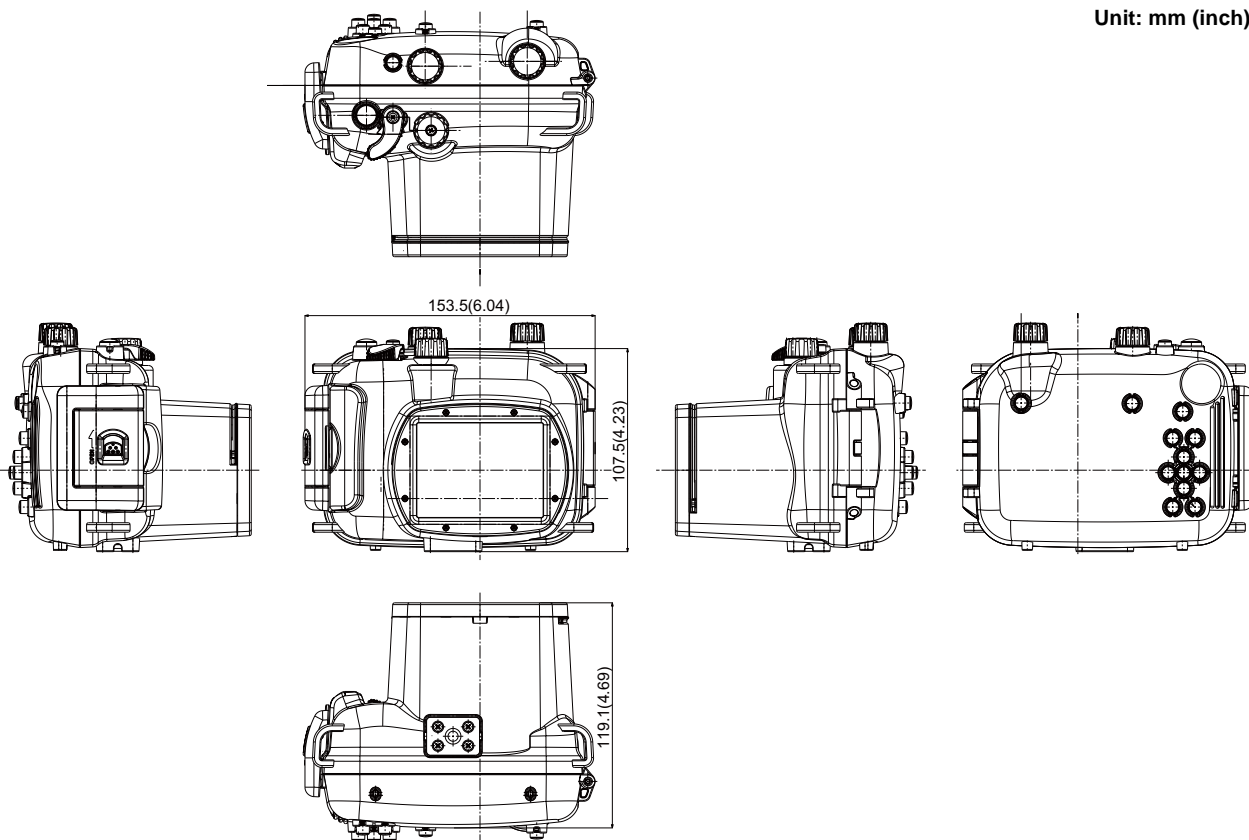
\*<sup>2</sup>Including battery and memory card

### • Exterior Photo



### • Exterior

Unit: mm (inch)



## 4-2 Main Unchanged Accessories

### 4-2-1 Cables

Cable		Supported Model	Power Shot G11
HDMI Cable		HTC-100	○
Interface Cable		IFC-400PCU	○
AV Cable		AVC-DC400	○

- All exterior views are omitted.

### 4-2-2 Power Source

Battery/Charger/AC Adapter		Supported Model	Power Shot G11
Battery		NB-7L	○
Battery Charger		CB-2LZ/CB-2LZE	
AC Adapter Kit		ACK-DC50	
Compact Power Adapter		CA-PS700	
DC Coupler		DR-50	

## [Battery Pack]

### ● NB-7L

Type	Rechargeable lithium-ion battery
Nominal Voltage	7.4 V DC
Nominal Capacity	1050 mAh (minimum value)
Battery Life (Charge Cycles)	Approx. 300 times
Operating Temperatures	0 - 40°C (32 - 104°F)
Dimensions	32.5 x 45.4 x 17.7 (1.28 x 1.79 x 0.69)
Weight	Approx. 47g (1.7 oz.)

## [Battery Charger]

### ● CB-2LZ (Japan/Americas)/CB-2LZE (Europe/Asia/Oceania)

	CB-2LZ	CB-2LZE
Rated Input	100 - 240 V AC (50/60 Hz) 14 VA (100 V) - 19.2 VA (240 V), 0.14 A (100 V) - 0.08 A (240 V)	
Rated Output	8.4 V DC, 0.7 A	
Charging Time	Approx. 2 hr. 20 min. (when using NB-7L)	
Charge Indicator	Charging: Orange, Fully charged: Green Two indicator system	
Operating Temperatures	0 - 40°C (32 - 104°F)	
Dimensions:	92.5 x 27.0 x 62.0 mm (3.64 x 1.06 x 2.44 in.)	
Weight:	Approx. 92 g (3.25 oz.)	Approx. 85 g (3.00 oz.) (excluding power cord)

## [AC Adapter Kit]

### ● ACK-DC50

#### • Compact Power Adapter CA-PS700

Rated Input	100-240 V AC (50/60 Hz) 35 VA (100 V)-45 VA (240 V), 0.38 A (100 V)-0.2 A (240 V)
Rated Output	7.4V DC, 2.0 A
Operating Temperatures	0-40°C (32-104°F)
Dimensions	112.0 x 29.0 x 45.0 mm (4.41 x 1.14 x 1.77 in.)
Weight	Approx. 185 g (6.53 oz.) (excluding power cord)

#### • DC Coupler DR-50

# *TECHNICAL DESCRIPTION*

---

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# 1. Functions of each unit

## 1.1 MAIN PCB ASS'Y

- 1) Driving the CCD Sensor.
- 2) CCD output signal processing.
- 3) Image processing (DIGIC 4).
- 4) Recording to the memory card and playing back from it.
- 5) System control (DIGIC 4).
- 6) LCD control.
- 7) Power supply driving.
- 8) Audio signal processing.
- 9) GYRO sensor
- 10) Amplification of the video output, microphone input/audio output.
- 11) Memory card slot.
- 12) Battery cover opening/closing detection switch.
- 13) JACK of the DIGITAL/AV output.

## 1.3 TOP/MIC COVER ASS'Y

- 1) Power switch
- 2) Shutter button and Zoom lever.
- 3) Mode dial.
- 4) ISO dial.
- 5) MIC UNIT

## 1.4 FLASH/SPEAKER ASS'Y (ST FPC ASS'Y)

- 1) Flash charging and drive.
- 2) SPEAKER UNIT

## 1.5 BATTERY BOX ASS'Y (BATTERY FPC ASS'Y)

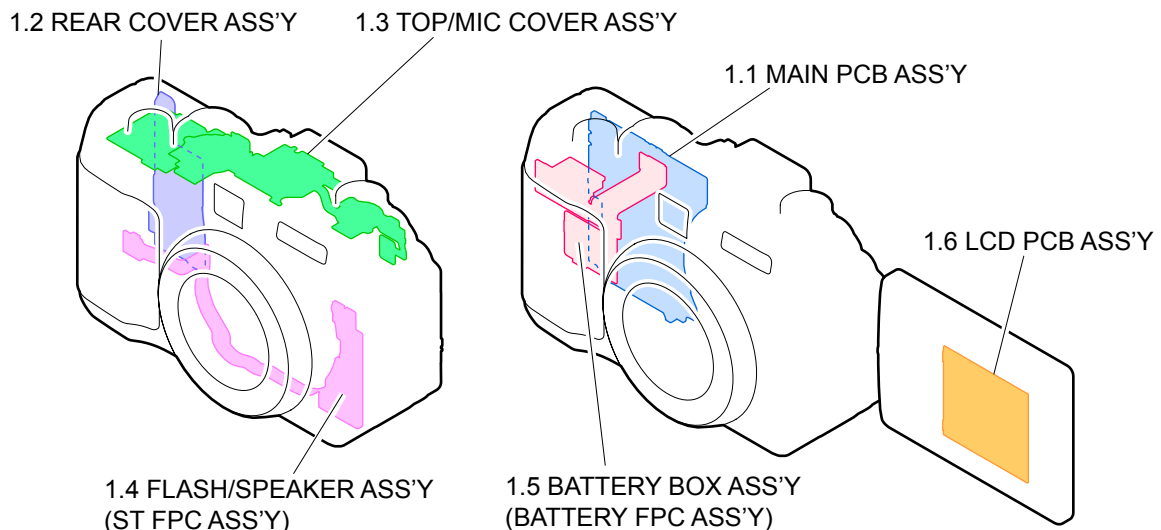
- 1) FUSE.
- 2) Audio signal relay.
- 3) Flash drive signal relay.
- 4) LITHIUM-ION<2ND>BATTERY.

## 1.2 REAR COVER ASS'Y (JOG UNIT)

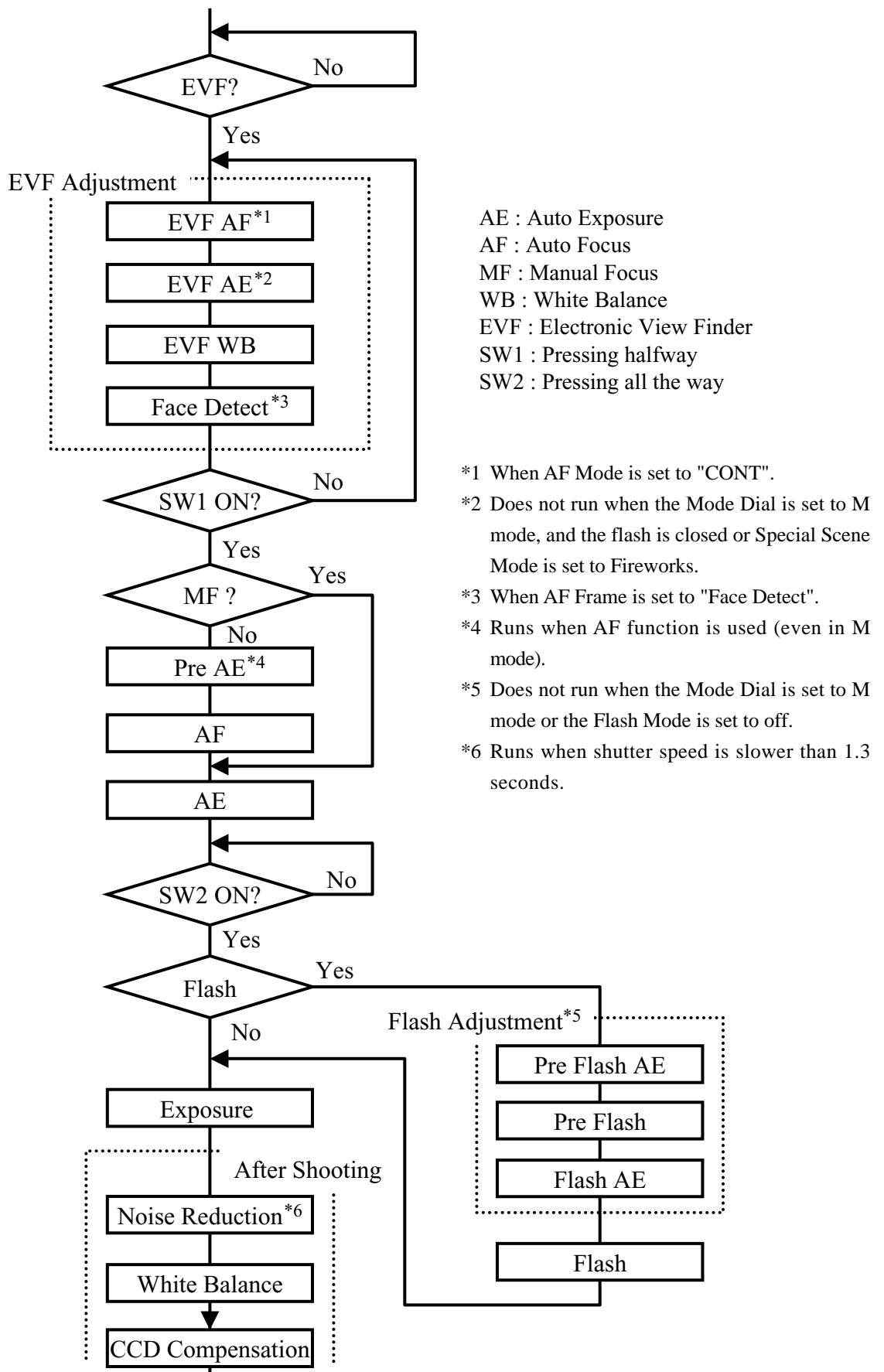
- 1) Rear operation button.
- 2) Controller wheel.

## 1.6 LCD PCB ASS'Y

- 1) LCD control.



## 2. Shooting Flowchart



## 3. Troubleshooting

### 3.1 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 software.

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.	UNKNOWN
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
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
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
E31	SUB CPU ERROR	When DIGIC fails to establish SIO transmission with the Sub CPU.	MAIN PCB ASS'Y
E32	IS ERROR	When IS-CPU or MAIN-IC does not work correctly.	MAIN PCB ASS'Y
E40	HDMI ERROR	If communication between HDMI and I2C communication has failed.	MAIN PCB ASS'Y
E41	USB ERROR	If communication between DIGIC and USB communication IC has failed.	MAIN PCB ASS'Y
E52	QUICK REVIEW ERROR	Review of the photographed image failed.	MAIN PCB ASS'Y



## 3.2 When a Problem Occurs

[Remedy]

- Check for any abnormalities in the mounting of probable faulty parts or connector connections referring to the table below.
- Make sure that the FPC connectors and the cables are properly connected and are not damaged.
- 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 software.

Problem (when an error code is not displayed)	Defect position	Reference
The power of the camera cannot be turned on.	MAIN PCB ASS'Y	
	TOP/MIC COVER ASS'Y	
	BATTERY FPC ASS'Y	FU402(BATTERY)
The image is not displayed on the LCD Monitor.	MAIN PCB ASS'Y	
	LCD ASS'Y	
The photographed image is abnormal.	OPTICAL ASS'Y	
	MAIN PCB ASS'Y	
The zoom does not function.	OPTICAL ASS'Y	
	MAIN PCB ASS'Y	
	TOP/MIC COVER ASS'Y	
The Built-in Flash does not work.	FLASH/SPEAKER ASS'Y	
	MAIN PCB ASS'Y	
	BATTERY FPC ASS'Y	FU401(FLASH)
The Built-in Flash does not work.	MAIN PCB ASS'Y	
Communications with the personal computer is not possible.	MAIN PCB ASS'Y	
	USB-CABLE	
The Memory card is not recognized.	MEMORY CARD	
	MAIN PCB ASS'Y	
Buttons/The Mode Dial do not work.	MAIN PCB ASS'Y	
	TOP/MIC COVER ASS'Y	
	JOG DIAL ASS'Y	

### 3.3 Simplified Troubleshooting

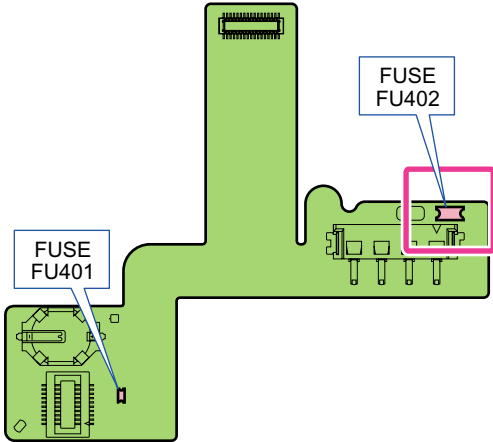
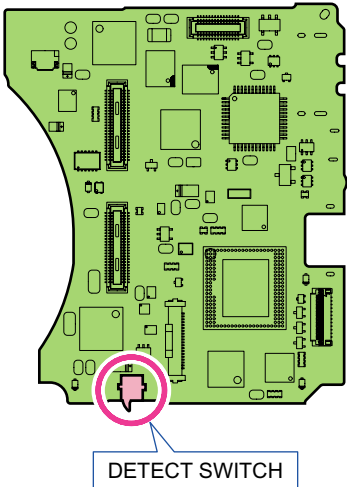
[Remedy]

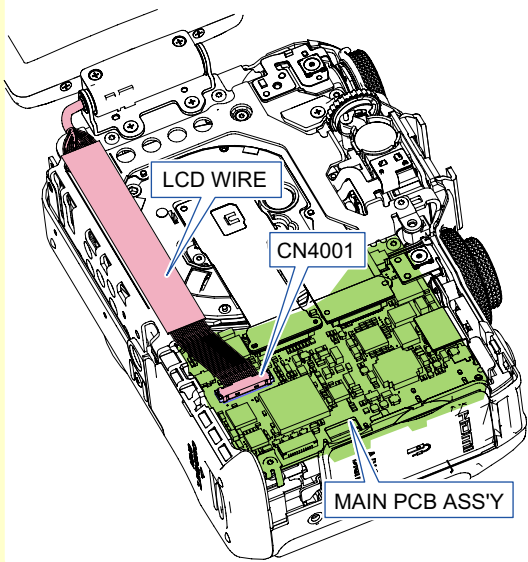
- Check for any abnormalities in the mounting of probable faulty parts or connector connections referring to the table below.
- Try replacing probable faulty parts referring to the table below.

[NOTE]

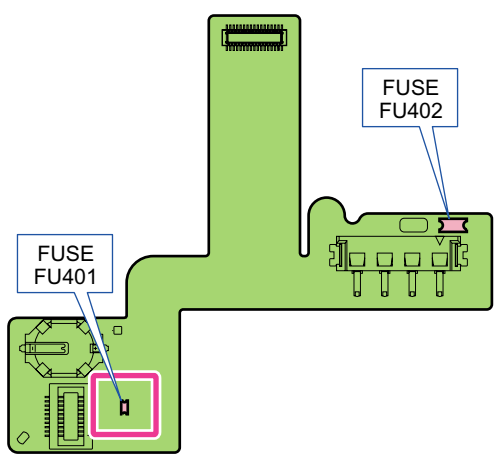
- Adjustments must be performed after parts are replaced. For details, see the Adjustments software.

#### 3.3.1 If the Power cannot be Turned On

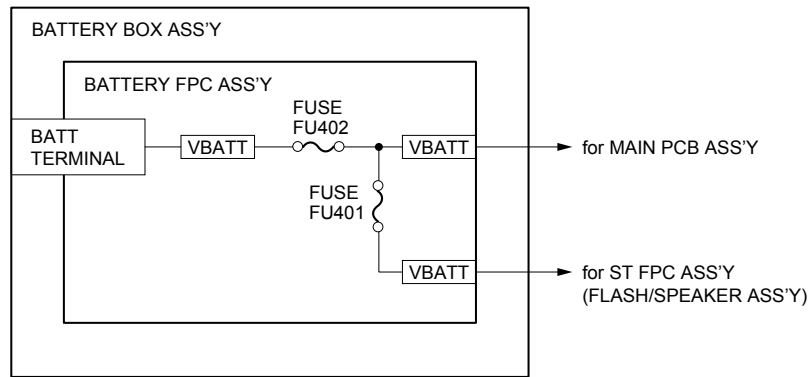
	Procedure/Check point	Conceivable cause
1	<p>Check the fuse (FU402) conduction.</p>  <p><b>BATTERY FPC ASS'Y</b> (PRIMARY SIDE)</p>	<p>If electrical conduction is not found:</p> <ul style="list-style-type: none"><li>• The fuse (FU402) is blown.</li></ul> <p>If electrical conduction is found:</p> <ul style="list-style-type: none"><li>• Check the STEP 2.</li></ul>
2	<p>Check whether the BATTERY COVER open/close detection switch on the MAIN PCB ASS'Y is broken.</p>  <p><b>MAIN PCB ASS'Y</b> (SECONDARY SIDE)</p>	<p>If electrical conduction is broken:</p> <ul style="list-style-type: none"><li>• the MAIN PCB ASS'Y may be defective.</li></ul>

	Procedure/Check point	Conceivable cause
3	<p>Check the connector CN4001 connection. Check whether the LCD WIRE is broken.</p>  <p>The diagram shows a top-down view of the device's internal components. A pink line represents the LCD WIRE, which is connected to a connector labeled CN4001 on the MAIN PCB ASS'Y. The PCB is green, and the device housing is white.</p>	<p>If the LCD WIRE connector comes off from the connector on the MAIN PCB ASS'Y. If the LCD WIRE is broken.</p>

### 3.3.2 If the Flash does not Work

	Procedure/Check point	Conceivable cause
1	<p>Check the fuse (FU401) conduction.</p>  <p>The diagram shows the primary side of the BATTERY FPC ASS'Y. It is a green printed circuit board with two fuses highlighted: FUSE FU401, which is enclosed in a pink square, and FUSE FU402, which is a small component on the right side of the board.</p> <p>BATTERY FPC ASS'Y (PRIMARY SIDE)</p>	<p>If electrical conduction is not found:</p> <ul style="list-style-type: none"> <li>• The fuse (FU401) is blown.</li> </ul> <p>If electrical conduction is found:</p> <ul style="list-style-type: none"> <li>• MAIN PCB ASS'Y may be defective.</li> <li>• FLASH UNIT may be defective.</li> </ul>

## 4. FUSE

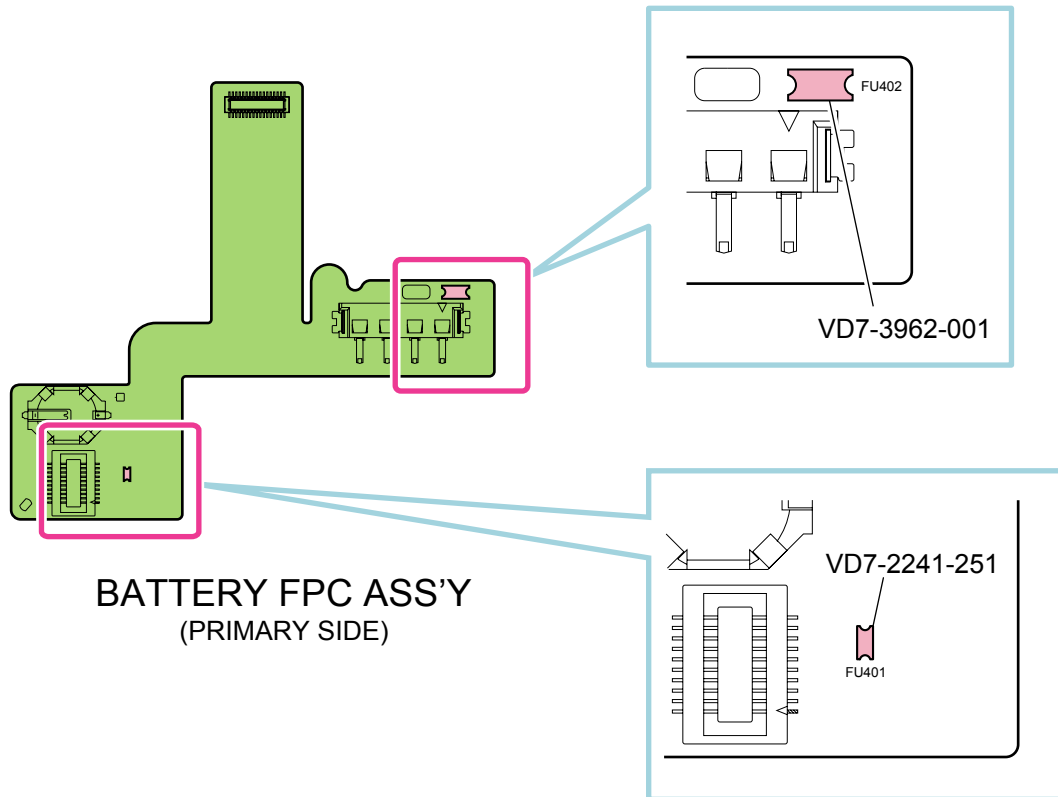


2 fuses are used for this product.

### 4.1 List of Fuses Used

FUSE	PARTS NO.	Mounted PCB	NOTE
FU401	VD7-2241-251	BATTERY FPC ASS'Y	for FLASH UNIT
FU402	VD7-3962-001	BATTERY FPC ASS'Y	for BATTERY

### 4.2 Positions of Fuses Used



## 5. Power Consumption

Apply voltage [V]	Still image mode [A]		Movie mode [A]	Playback mode [A]	When power OFF [ $\mu$ A]
	LCD ON	LCD OFF			
7.4	0.268	0.056	0.260	0.155	2.87

[Settings for the measurement]

<In common>

- Battery cover : Closed
- Battery : Removed
- Applied voltage value : Voltage applied to the camera terminal (DC IN)
- SD Card : Installed (removed in power-off mode)
- LCD brightness : Standard
- Camera : Standby

<In still image mode>

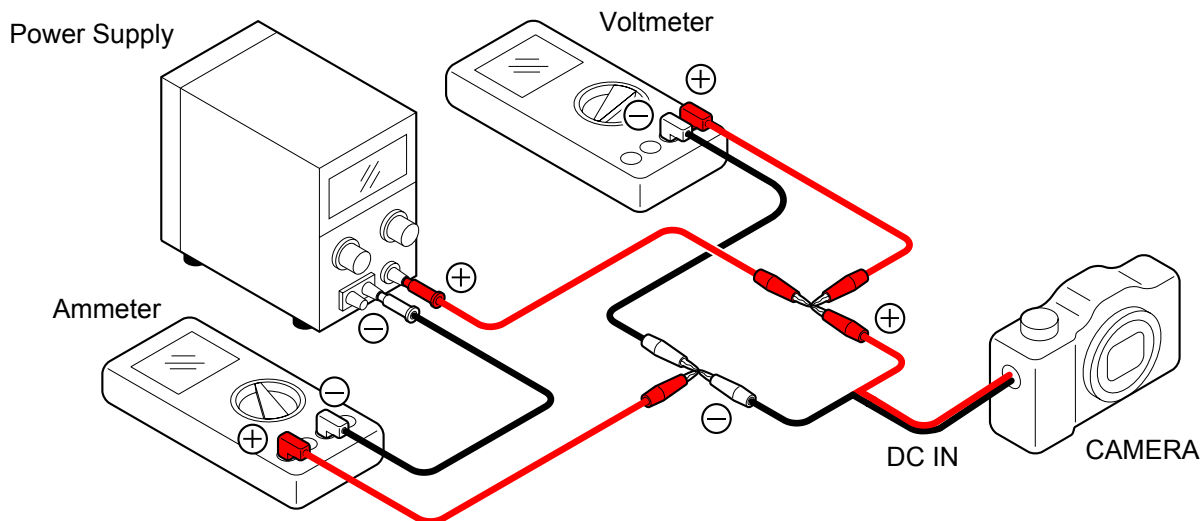
- Shooting mode : Auto
- AF frame : Center (if selectable)

<In playback mode>

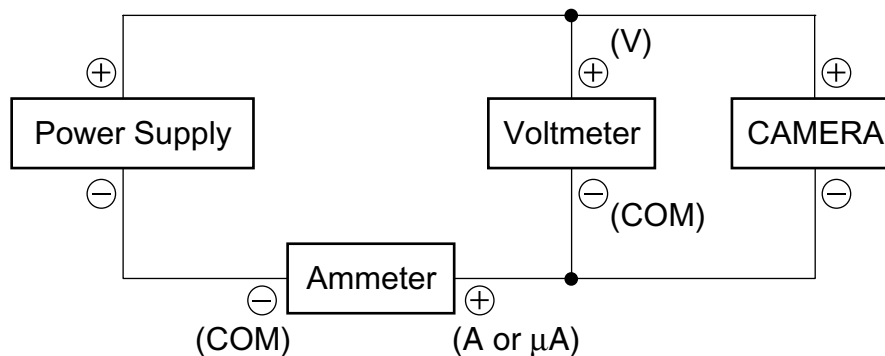
- Lens barrel : Retracted

<In power-off mode>

- Coin battery : Removed (in models whose batteries are removable)



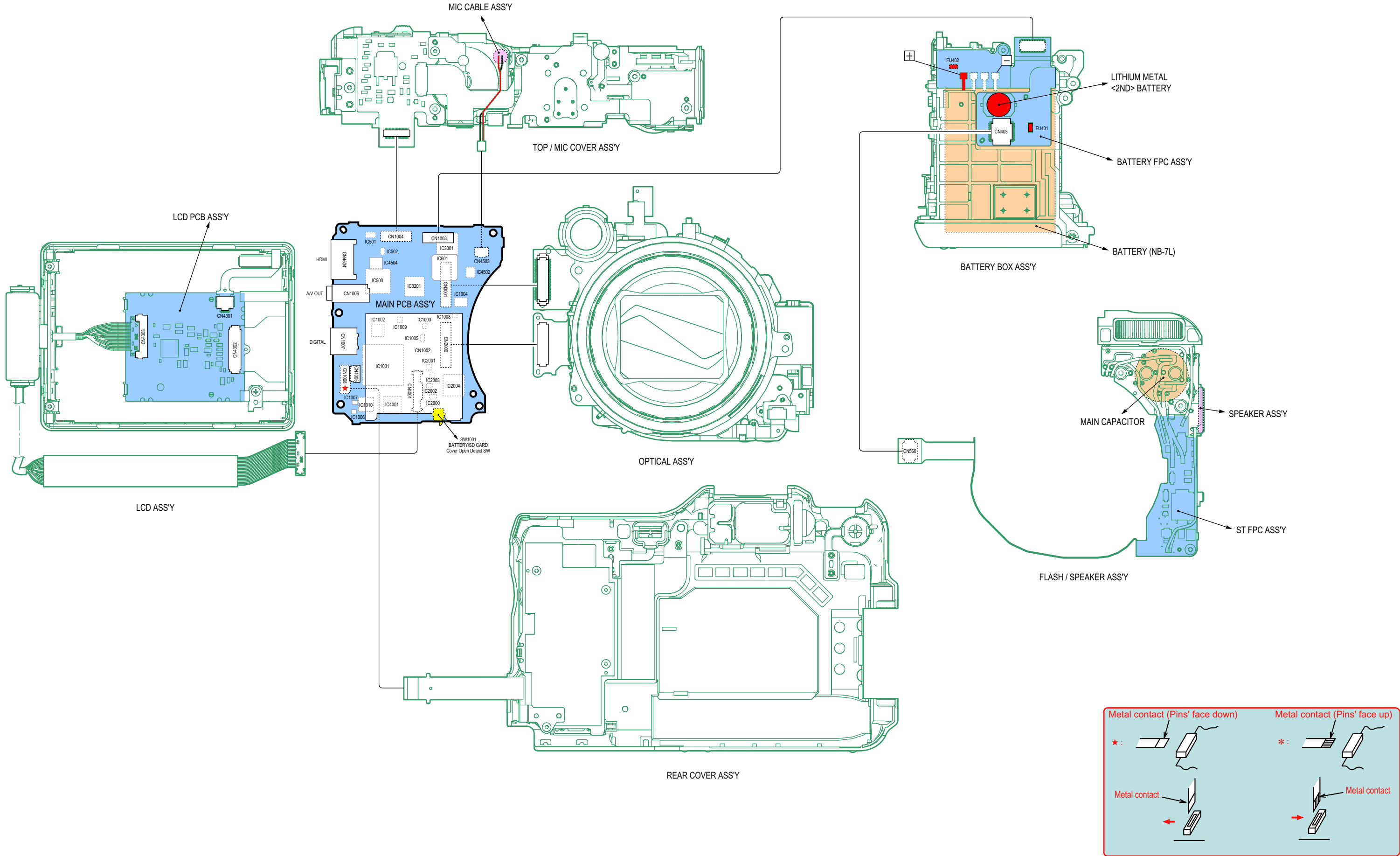
Connecting examples



\* The descriptions in ( ) indicate the plug-in terminals on the tester.

Diagrammatic illustration

## 6. INTERCONNECTION DIAGRAM



## DISASSEMBLY

---

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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.

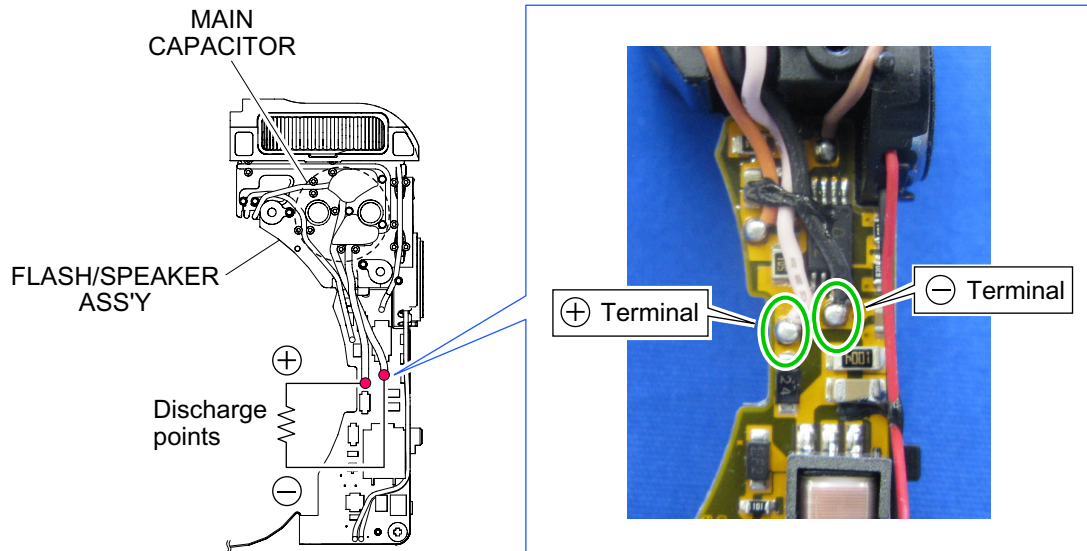
## 1.1 Precautions on Flash High Voltage Circuit

When separating the CHASSIS of FLASH/SPEAKER ASS'Y, be sure to discharge the MAIN CAPACITOR.

\* Discharging resistor: 1 k $\Omega$ , approx. 5 W. (See Fig. 1)

### CAUTION:

Because this is a high-voltage circuit, be careful to avoid electric shock and short-circuits with other components.



**Fig. 1 Precautions on Flash High Voltage Circuit**

## 1.2 List of Tools

The following tools are used for reassembling during service.

List of tools

New	Name of tools	Part No.	Remarks
	Screwdriver (Local Purchase)		
	Tweezers (Local Purchase)		
	SCREWDRIVER, TORQUE	CY9-1607-000	
	BIT, SCREWDRIVER, +NO.0	CY9-1608-000	

## 1.3 List of Supplies

The following supplies are used for reassembling during service.

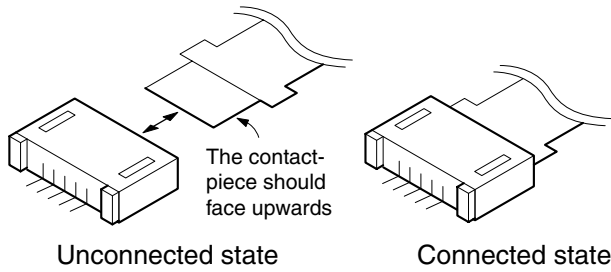
List of supplies

New	Name of supplies	Part No.	Remarks
	TAPE, DOUBLESIDED NO.7075	CY9-4506-000	Double-sided tape (10mm × 5mm × 0.05mm)
	DIABOND NO.1663G BLACK	CY9-8129-000	Bond (200ml)
	THREE BOND 1401C	CY9-8011-000	Bond (200g)

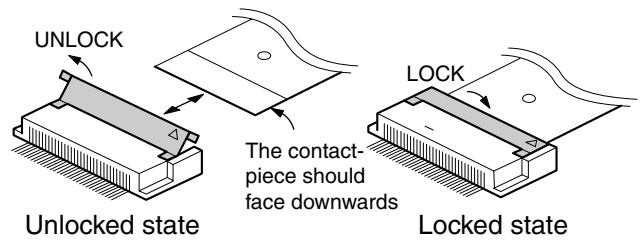
## 1.4 Connectors for FPC Board

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

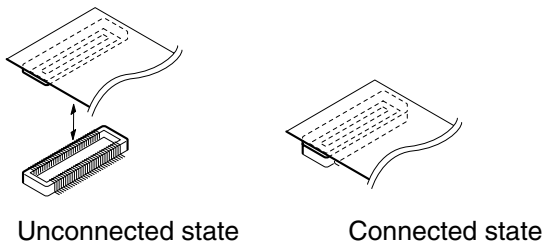
### 1 Type A



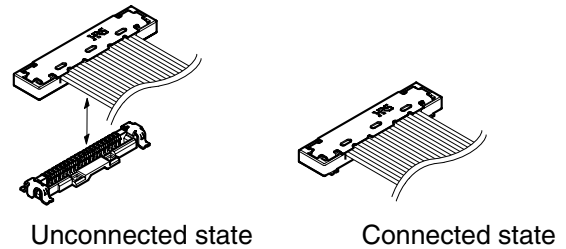
### 2 Type B



### 3 Type C



### 4 Type D



### 5 Type E

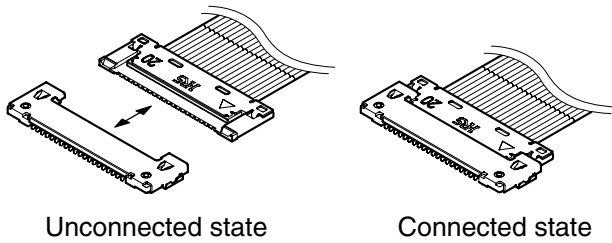


Fig. 2 Connectors for FPC board

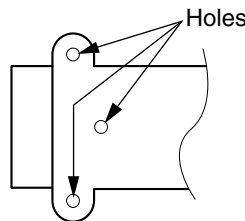


Fig. 3 Holes for removal

#### 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. For details on how to attach/detach the type D & E connectors, refer to "3.5 Separation of LCD ASS'Y" for type D and "3.6 Disassembling of LCD ASS'Y" for type E.
3. The FPC board is equipped with holes as shown. Use them for removal and insertion by inserting the tweezers into them as required.

## 2. Tightening the Screws

### 2.1 Torque Values for Fastening Screws

The torque values shown in the figure below are recommended values.

(It is not required to use a torque screwdriver.)

(See Fig. 1,2 and 3.)

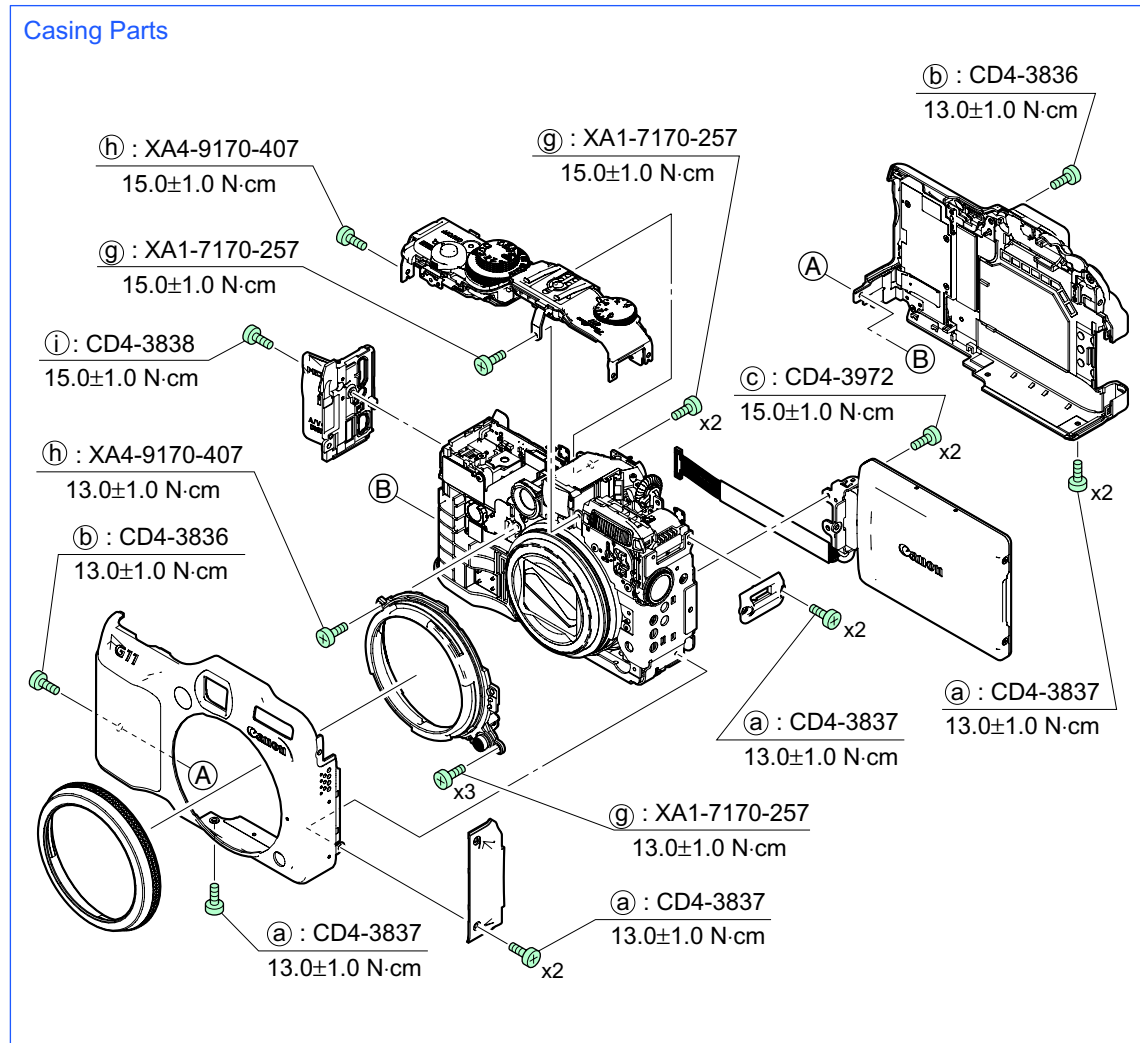


Fig. 1 Casing Parts

Internal Parts

Diagram illustrating the internal parts of a device, showing the assembly sequence and torque specifications for various components.

Key components and their torque specifications:

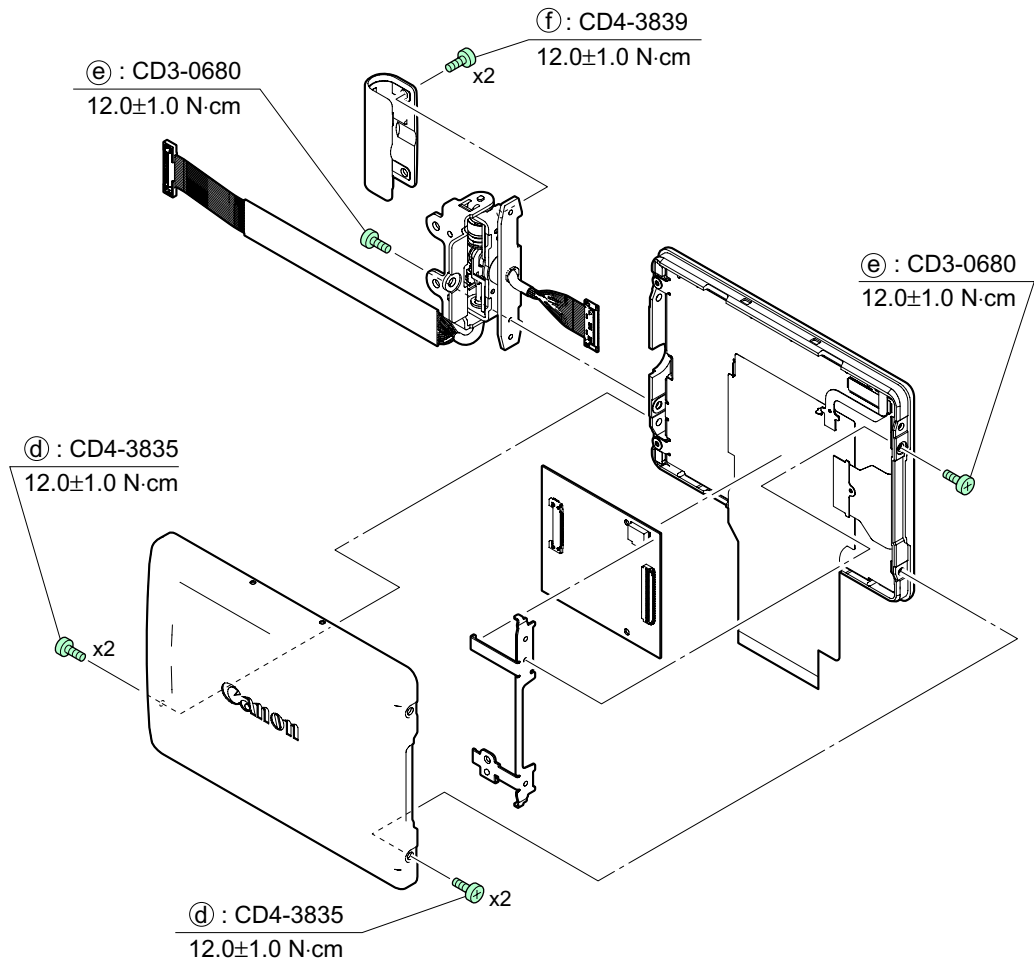
- (g) : XA1-7170-257  
13.0±1.0 N·cm
- (h) : XA4-9170-407  
13.0±1.0 N·cm
- (i) : XA4-5170-357  
13.0±1.0 N·cm
- (j) : XA4-5140-457  
11.0±2.0 N·cm
- (k) : CD4-3972  
13.0±1.0 N·cm
- (l) : CD4-3972  
15.0±1.0 N·cm
- (m) : CD3-3325  
13.0±1.0 N·cm
- (n) : CD4-3018  
13.0±1.0 N·cm

The diagram shows the assembly of the internal parts, including the main body, the internal frame, and the internal components. The assembly sequence is indicated by the callouts and the torque specifications.

Optical Ass'y

### Fig. 2 Internal Parts

## LCD Ass'y

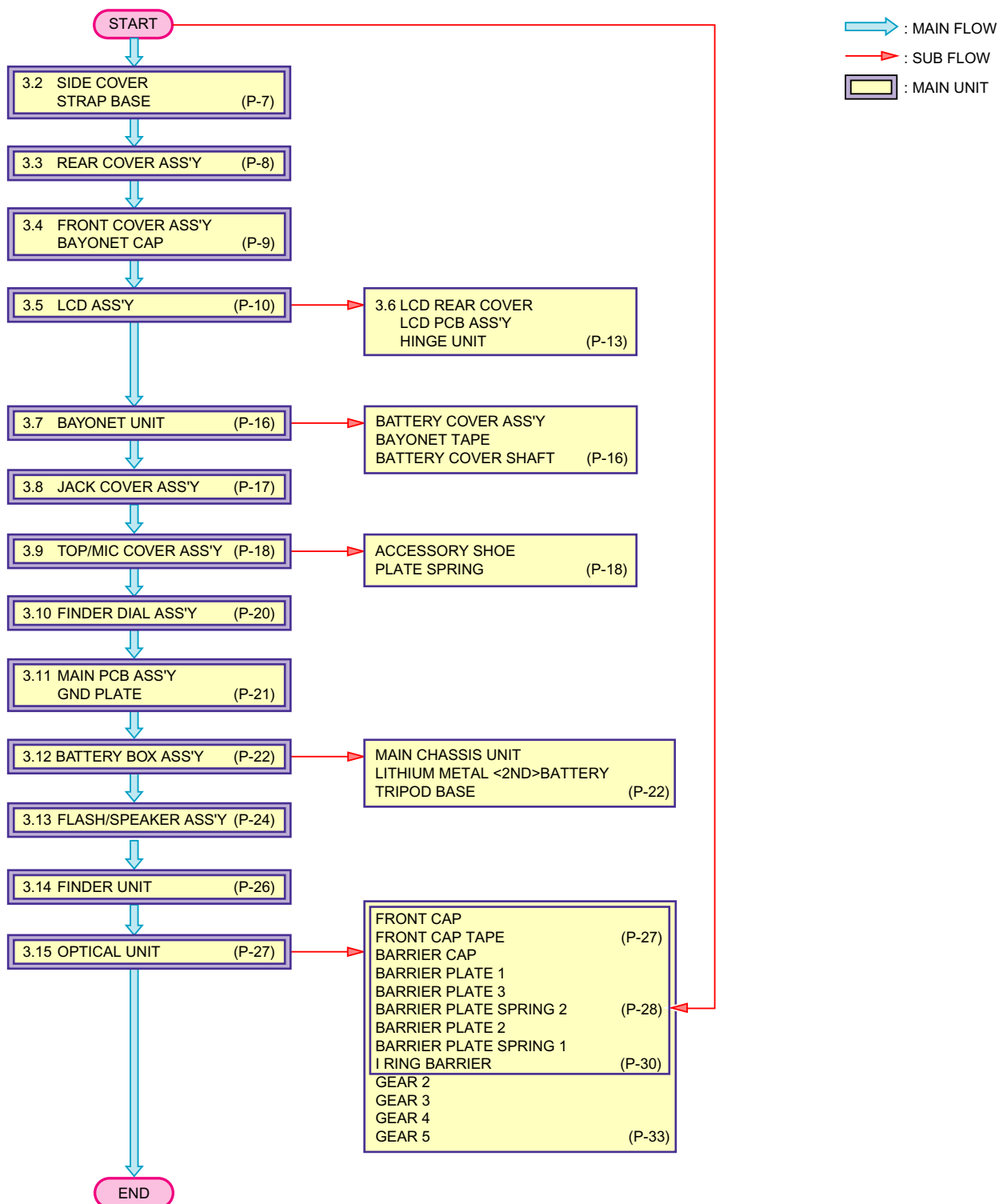


**Fig. 3 LCD ASS'Y**

# 3. Disassembling / Reassembling

## 3.1 Procedure

- (1) The following flowchart shows the disassembly procedure for PowerShot G11.
- (2) Reverse the disassembly procedure to reassemble it. \*The pages to refer to are shown in parentheses ().

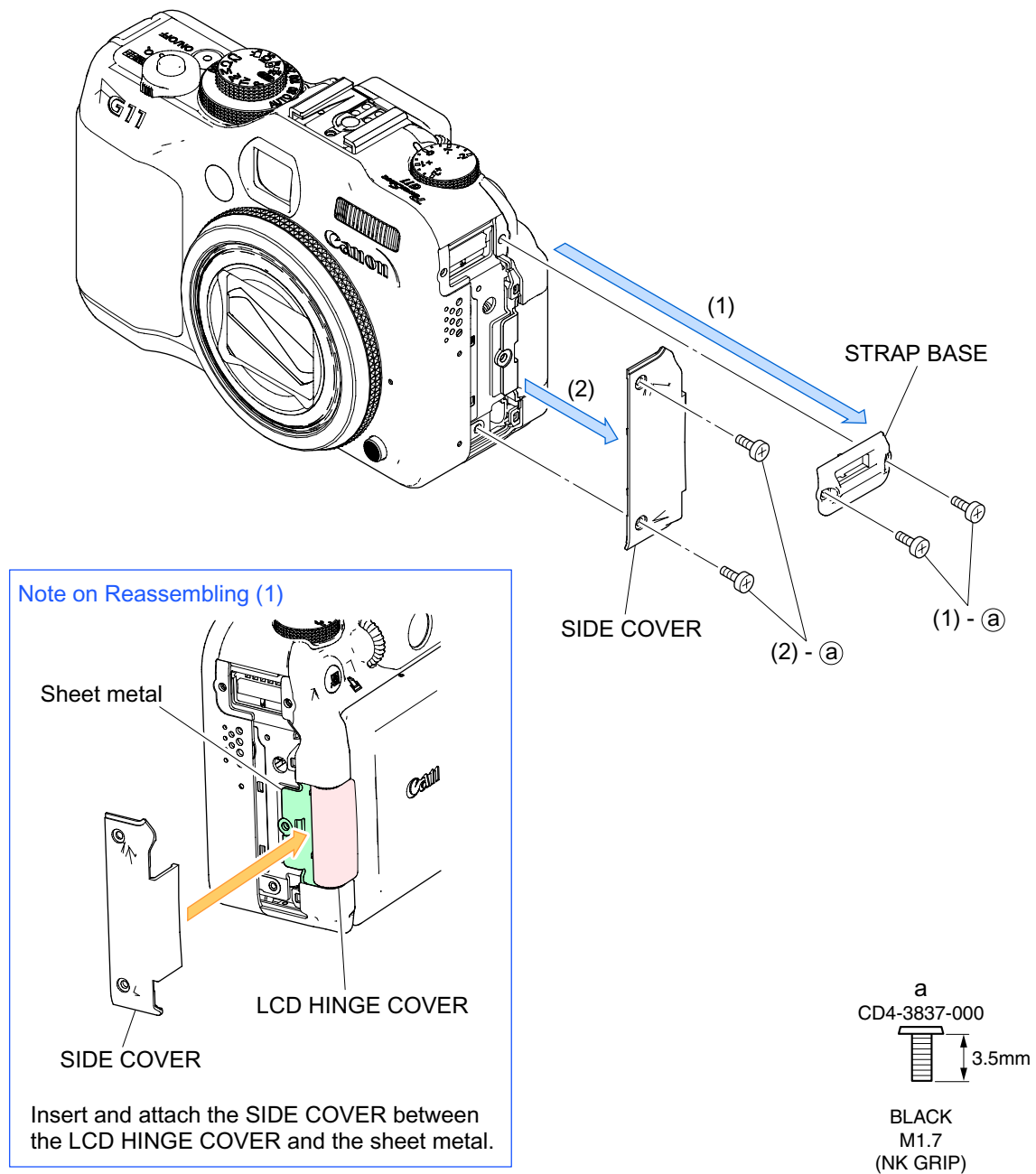


## 3.2 Separation of SIDE COVER and STRAP BASE

- (1) Remove two screws (a × 2) and detach the STRAP BASE.
- (2) Remove two screws (a × 2) and detach the SIDE COVER.

### <Note on Reassembling>

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



### 3.3 Separation of REAR COVER ASS'Y

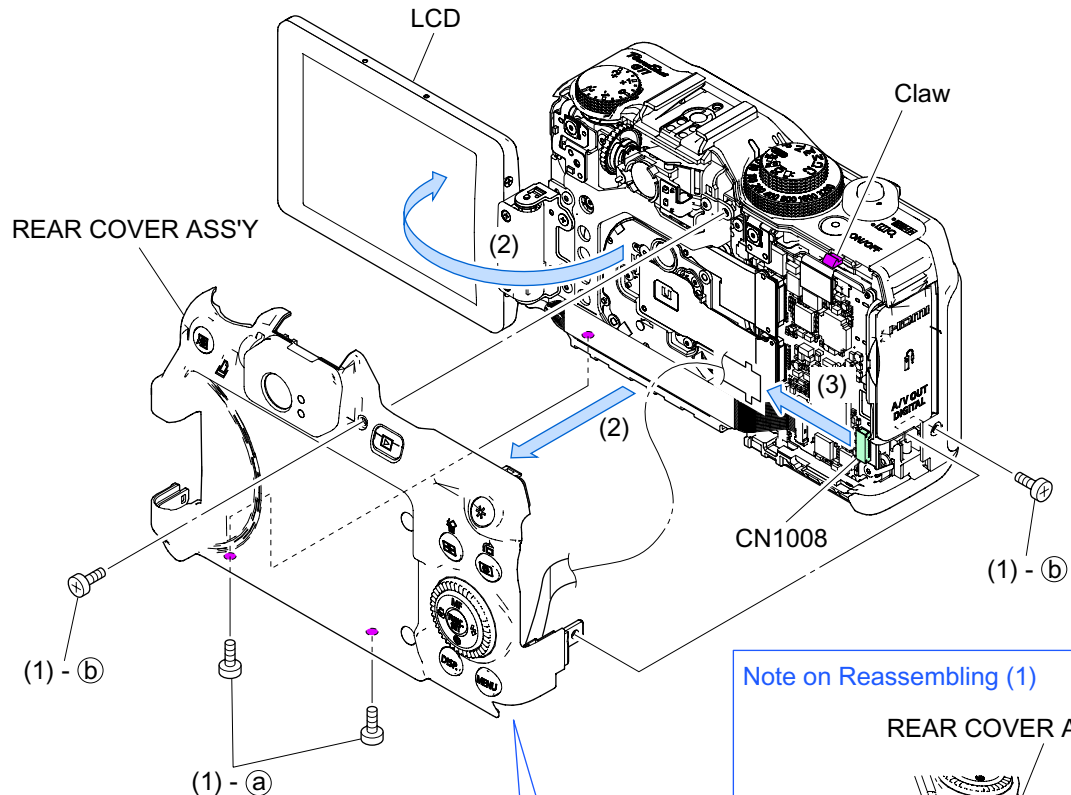
- (1) Remove four screws (a × 2, b × 2).
- (2) Open the LCD, disengage the claw, and then detach the REAR COVER ASS'Y.

**Note:** Since the REAR COVER ASS'Y is connected to the CN1008 with the FPC, be careful not to cut the FPC.

- (3) Disconnect the CN1008 and separate the REAR COVER ASS'Y.

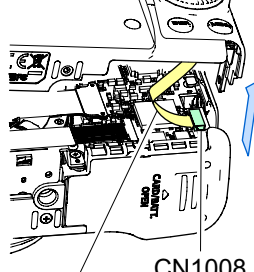
#### <Note on Reassembling>

- (1) Attach the REAR COVER ASS'Y as shown in the figure below.

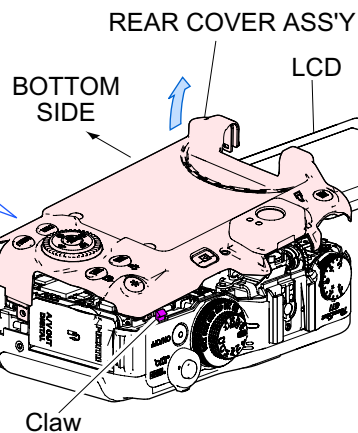


#### Note

REAR COVER ASS'Y



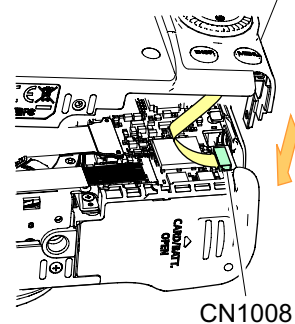
Be careful not to cut the FPC.



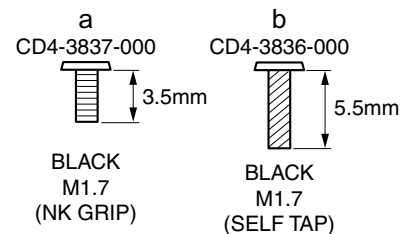
Lift up the bottom part of the LCD side, disengage the claw, and then detach the REAR COVER ASS'Y.

#### Note on Reassembling (1)

REAR COVER ASS'Y



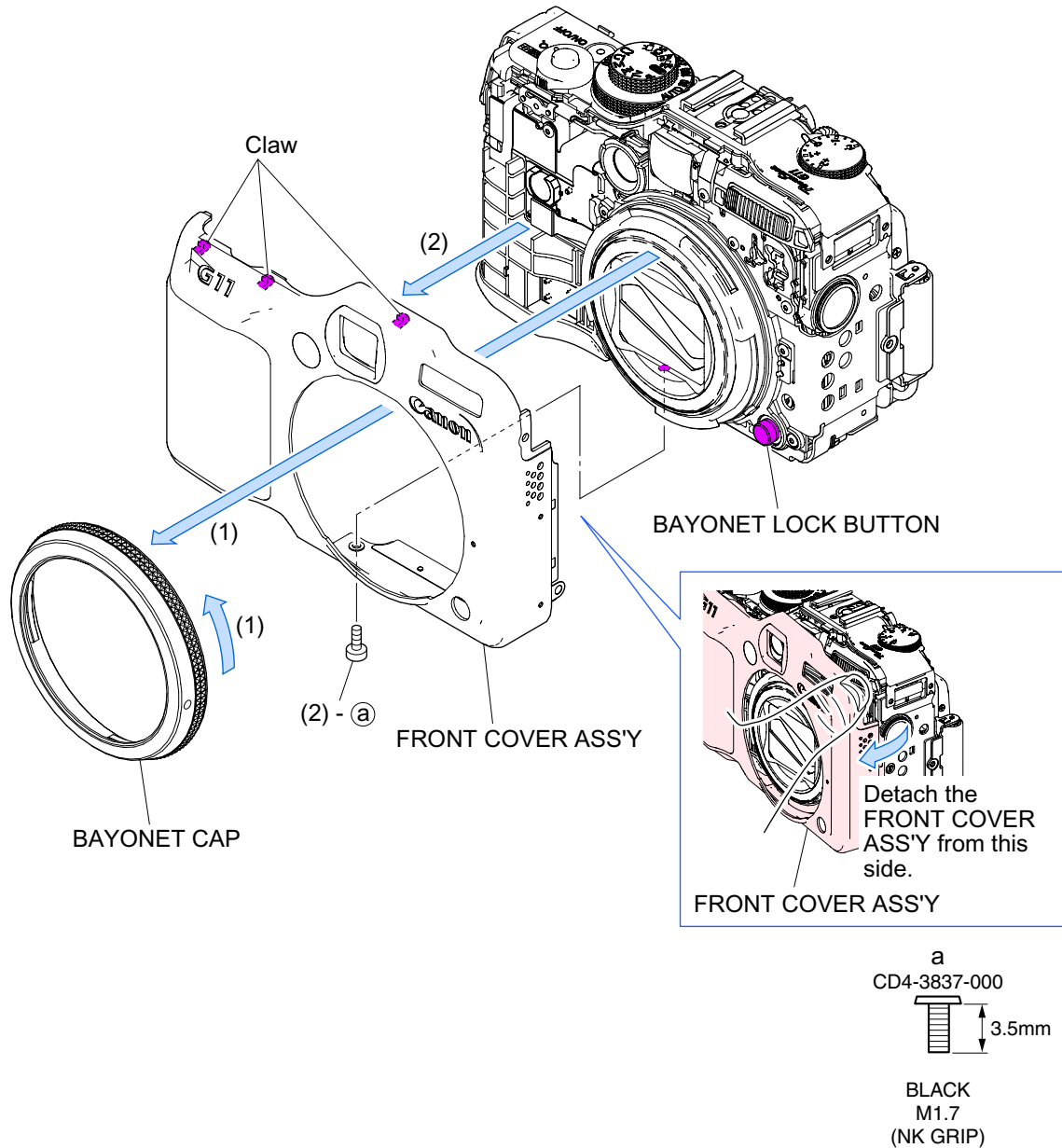
Fold the FPC as shown in the figure above, and attach the REAR COVER ASS'Y.





### 3.4 Separation of FRONT COVER ASS'Y

- (1) While pressing the BAYONET LOCK BUTTON, remove the BAYONET CAP by turning it in the arrow direction as shown in the figure below.
- (2) Remove one screw (a × 1), disengage the three claws, and then detach the FRONT COVER ASS'Y.



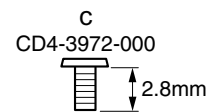
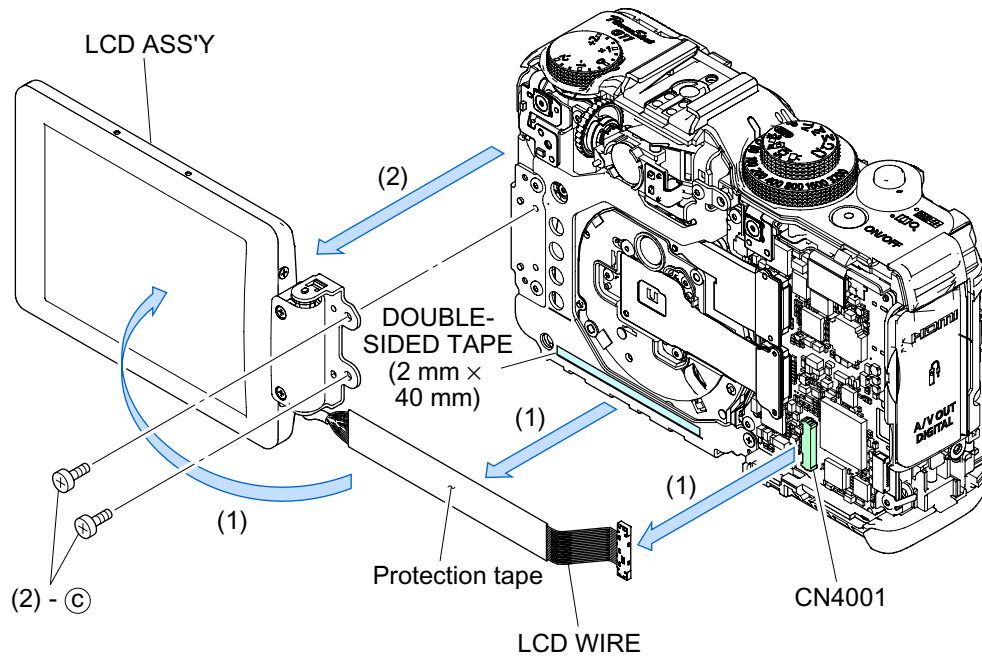
### 3.5 Separation of LCD ASS'Y

- (1) Open the LCD, disconnect the CN4001, and peel off the LCD WIRE from the DOUBLE-SIDED TAPE.

Note 1: When peeling off the DOUBLE-SIDED TAPE, be careful not to damage the protection tape for the LCD WIRE.

Note 2: Since the CN4001 has a peculiar shape, refer to <How to Detach the Connector> on the next page for details on how to detach it.

- (2) Remove two screws (c × 2) and detach the LCD ASS'Y.



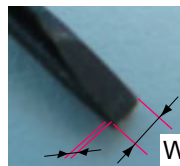
BLACK  
M1.7  
(NK GRIP)

## <How to detach the Connector>

Detach the connector from the CN4001 by following the instructions shown below.

### How to detach the Connector

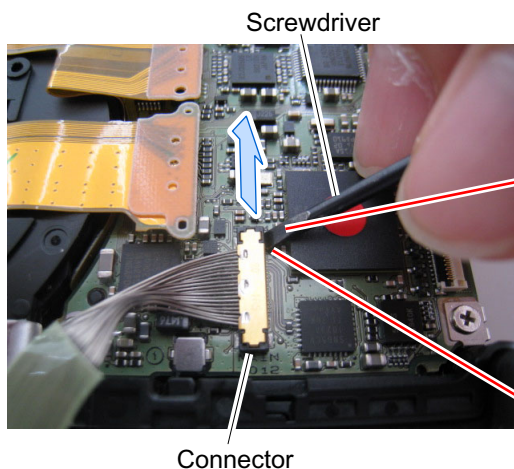
#### ● Recommended slotted screwdriver



Width: 2 mm or more  
Thickness: 1.2 mm or less

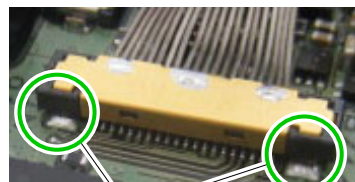
#### ● Procedures

- ① Insert the tip of the slotted screwdriver straight into the gap between the connector and the circuit board.
- ② Alternately lift up the right and left sides of the connector little by little to detach it.  
**Note:** In order to prevent the connector from being damaged, avoid detaching the connector at one stroke.



- ② Lift up the connector in the vertical direction with the tip of the screwdriver.

- ① Insert the tip of the screwdriver into the gap between the connector and the circuit board.

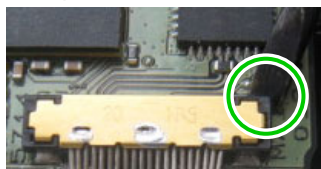


Positions where the screwdriver tip should be inserted

**Note:** Do not insert the screwdriver tip into the following positions.

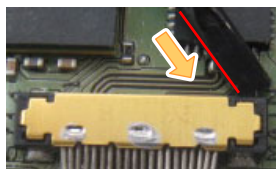
**NG**

Do not insert into a connector end (corner portion of the connector)



**NG**

Do not insert obliquely.



**NG**

Do not insert into a connector side.



#### \* Other cautions

1. Do not lift up the connector by the cable as this may break the cable or damage the connector.
2. Do not attach and detach the connector more than 30 times.

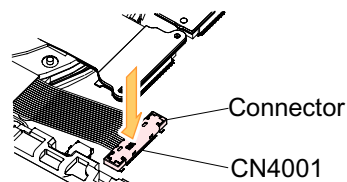
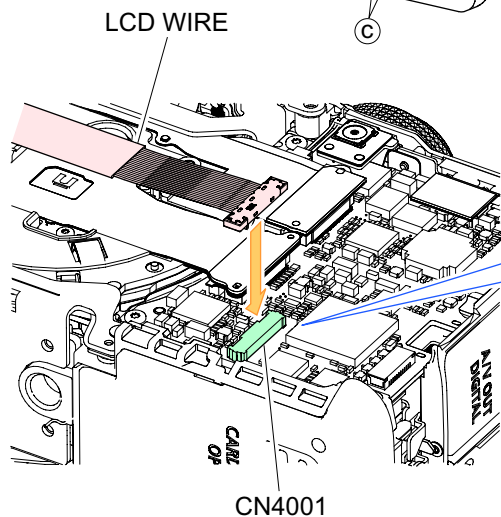
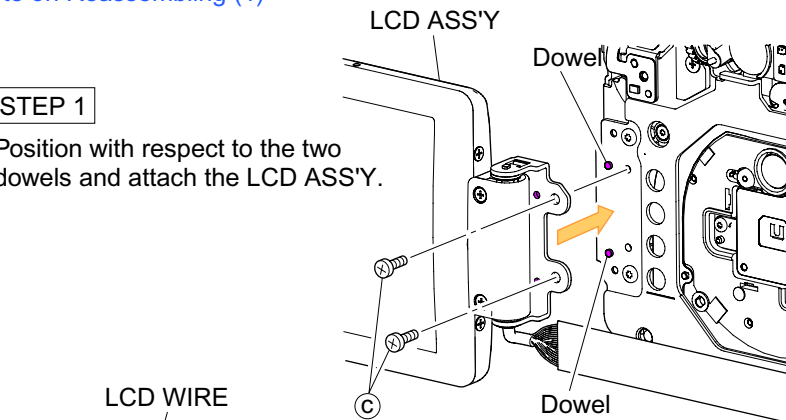
<Note on Reassembling>

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

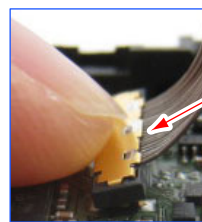
Note on Reassembling (1)

STEP 1

Position with respect to the two dowels and attach the LCD ASS'Y.



Attach the connector by pressing down the entire surface vertically.

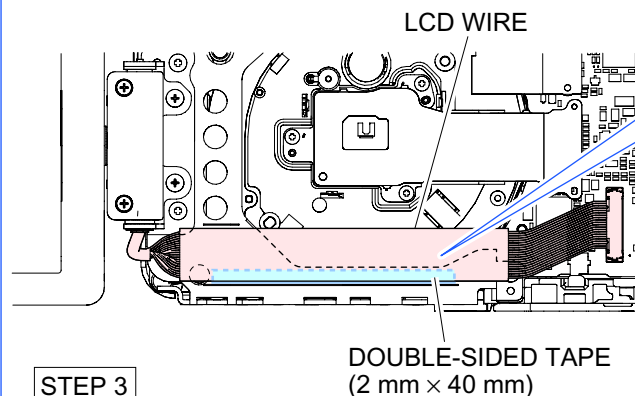


NG

Do not attach the connector obliquely.

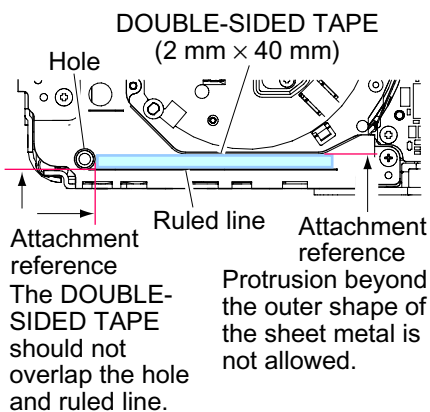
STEP 2

Insert the LCD WIRE into the CN4001.



STEP 3

Fix the LCD WIRE with DOUBLE-SIDED TAPE by referring to the attachment position shown in the figure above.

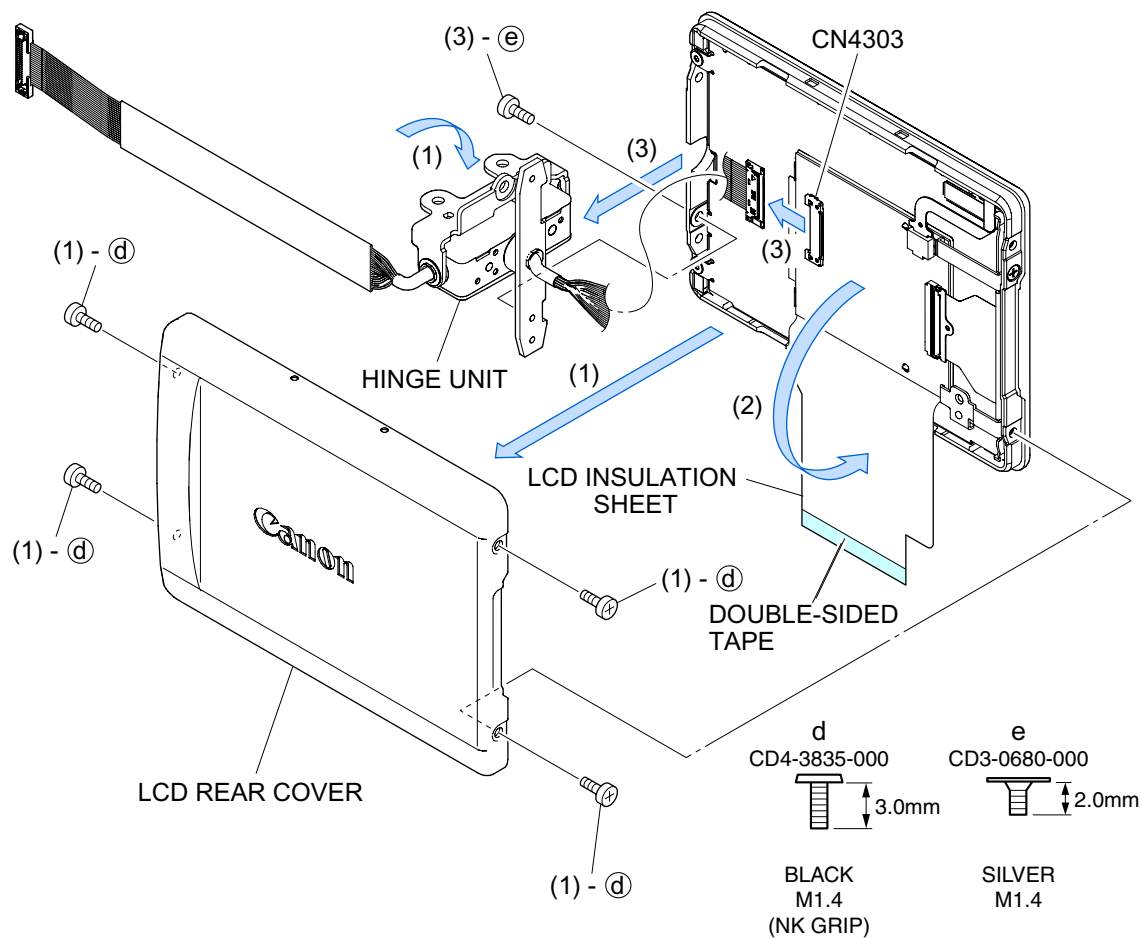


(2 × 40mm) t=0.05mm  
TAPE, DOUBLE SIDED NO.7075  
CY9-4506-000

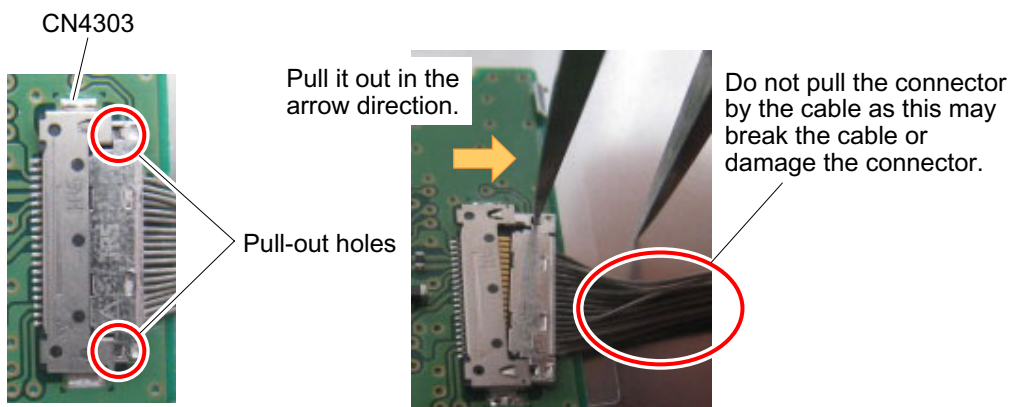
## 3.6 Disassembly of LCD ASS'Y

- (1) Turn the HINGE UNIT, remove four screws (d × 4), and then detach the LCD REAR COVER.
- (2) Peel off the DOUBLE-SIDED TAPE and open the LCD INSULATION SHEET.
- (3) Remove one screw (e × 1), disconnect the CN4303, and then detach the HINGE UNIT.

**Note:** Since the CN4303 has a peculiar shape, detach the connector as shown below.

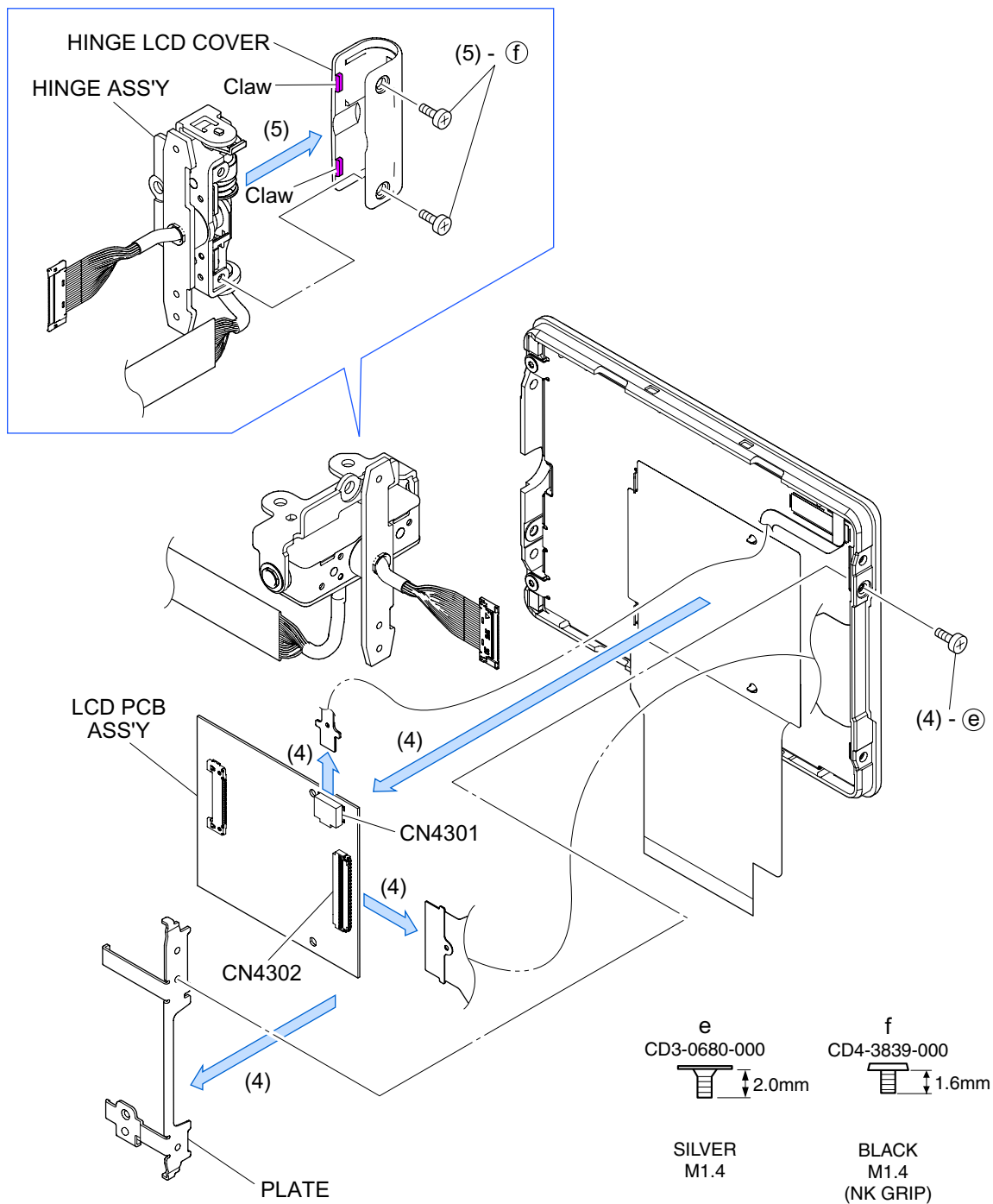


### Note



Insert the fine tip of a tool (such as tweezers) into the pull-out holes to pull out the connector by alternatively moving the right and left sides little by little.

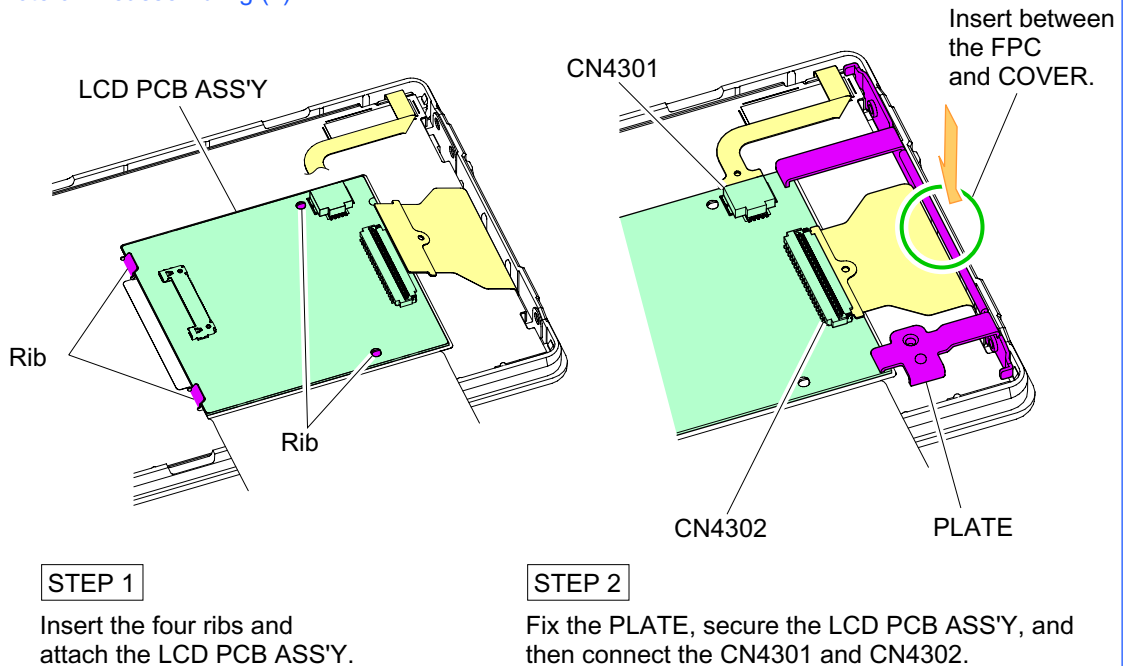
- (4) Remove one screw (e × 1), disconnect the CN4301 and CN4302, and then detach the PLATE and LCD PCB ASS'Y.
- (5) Remove one screw (f × 1), disengage the two claws, and then detach the HINGE LCD COVER from the HINGE ASS'Y.



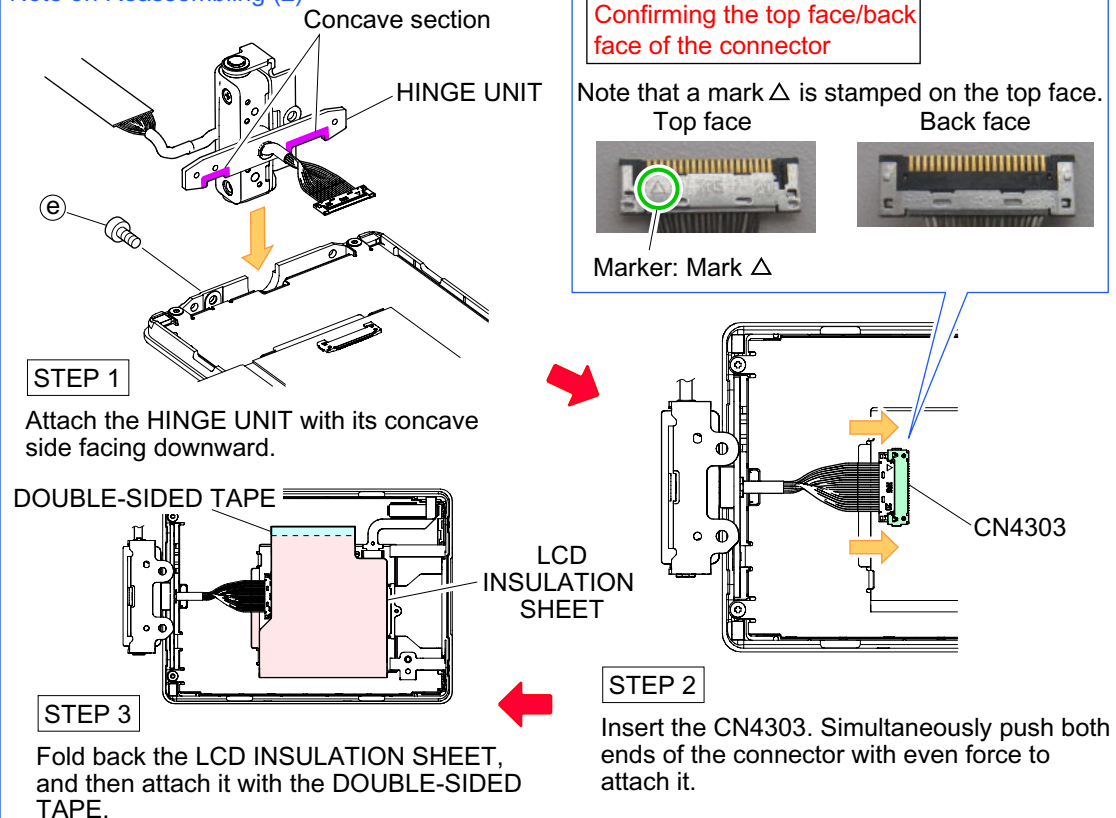
<Note on Reassembling>

- (1) Attach the LCD PCB ASS'Y and PLATE as shown in the figure below.
- (2) Attach the HINGE UNIT as shown in the figure below.

Note on Reassembling (1)



Note on Reassembling (2)



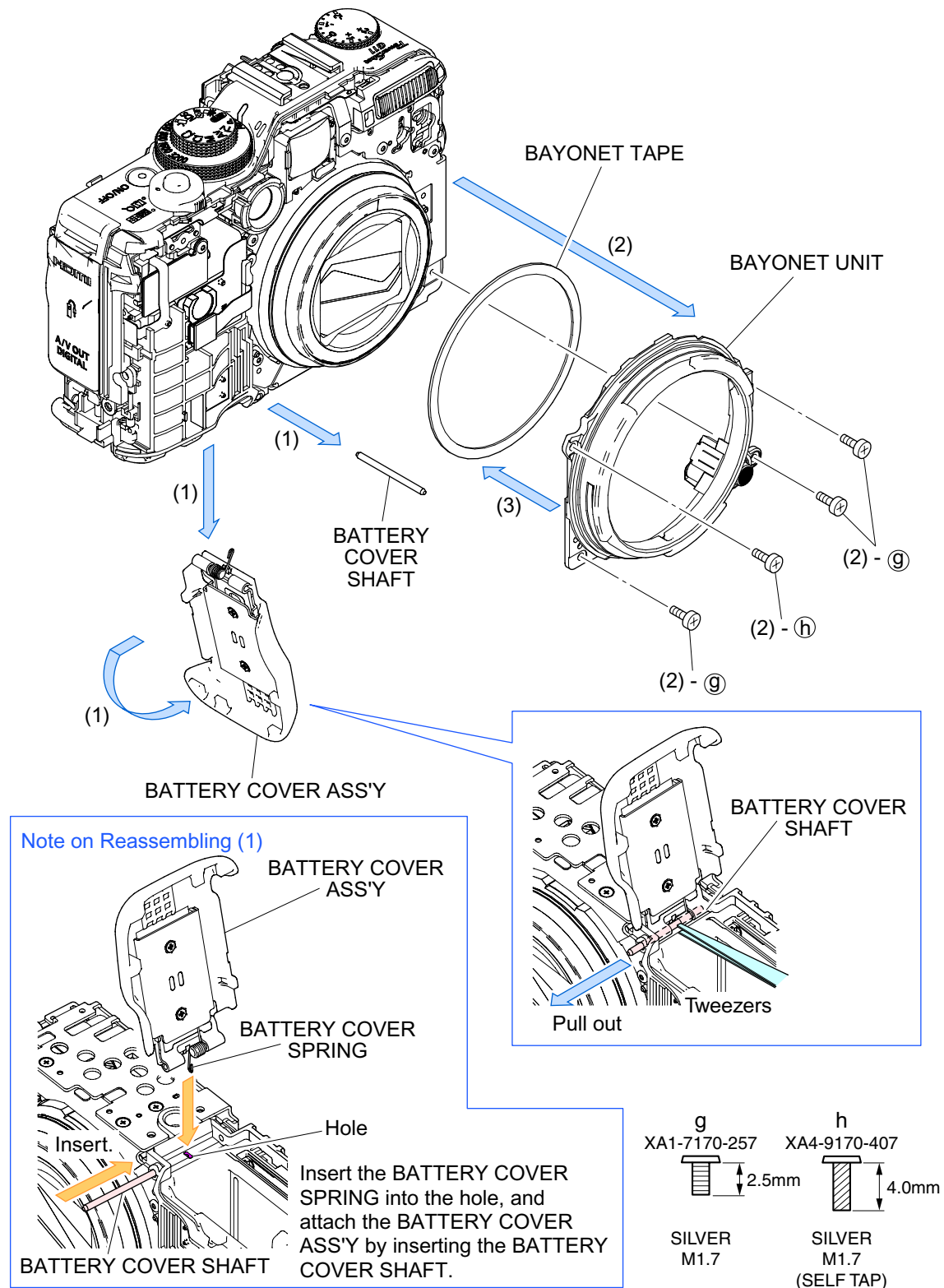


### 3.7 Separation of BATTERY COVER ASS'Y and BAYONET UNIT

- (1) Open the BATTERY COVER ASS'Y, pull out the BATTERY COVER SHAFT, and then detach the BATTERY COVER ASS'Y.
- (2) Remove four screws (g × 3, h × 1) and detach the BAYONET UNIT.
- (3) Peel off the BAYONET TAPE from BAYONET UNIT.

#### <Note on Reassembling>

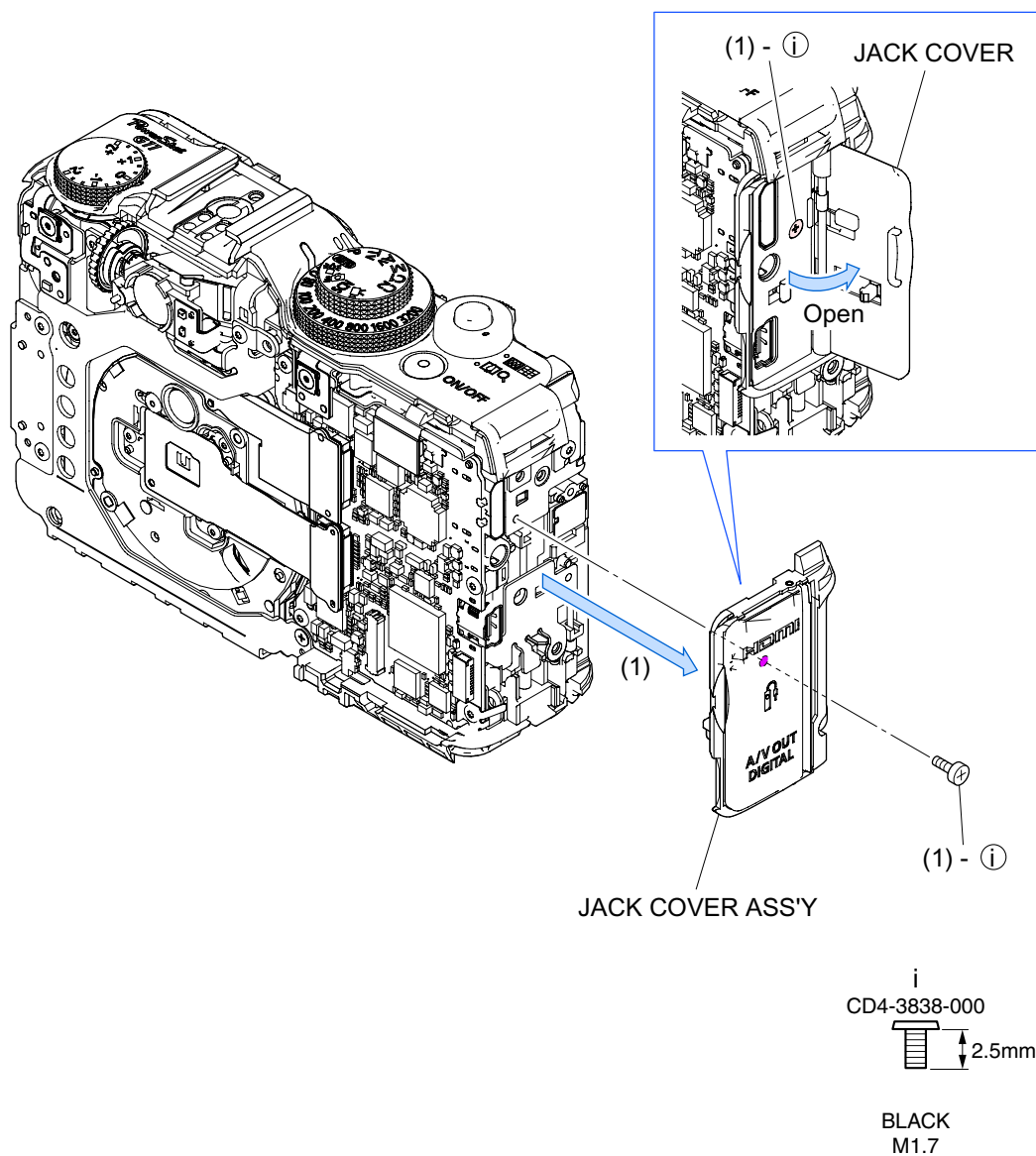
- (1) Attach the BATTERY COVER ASS'Y as shown in the figure below.





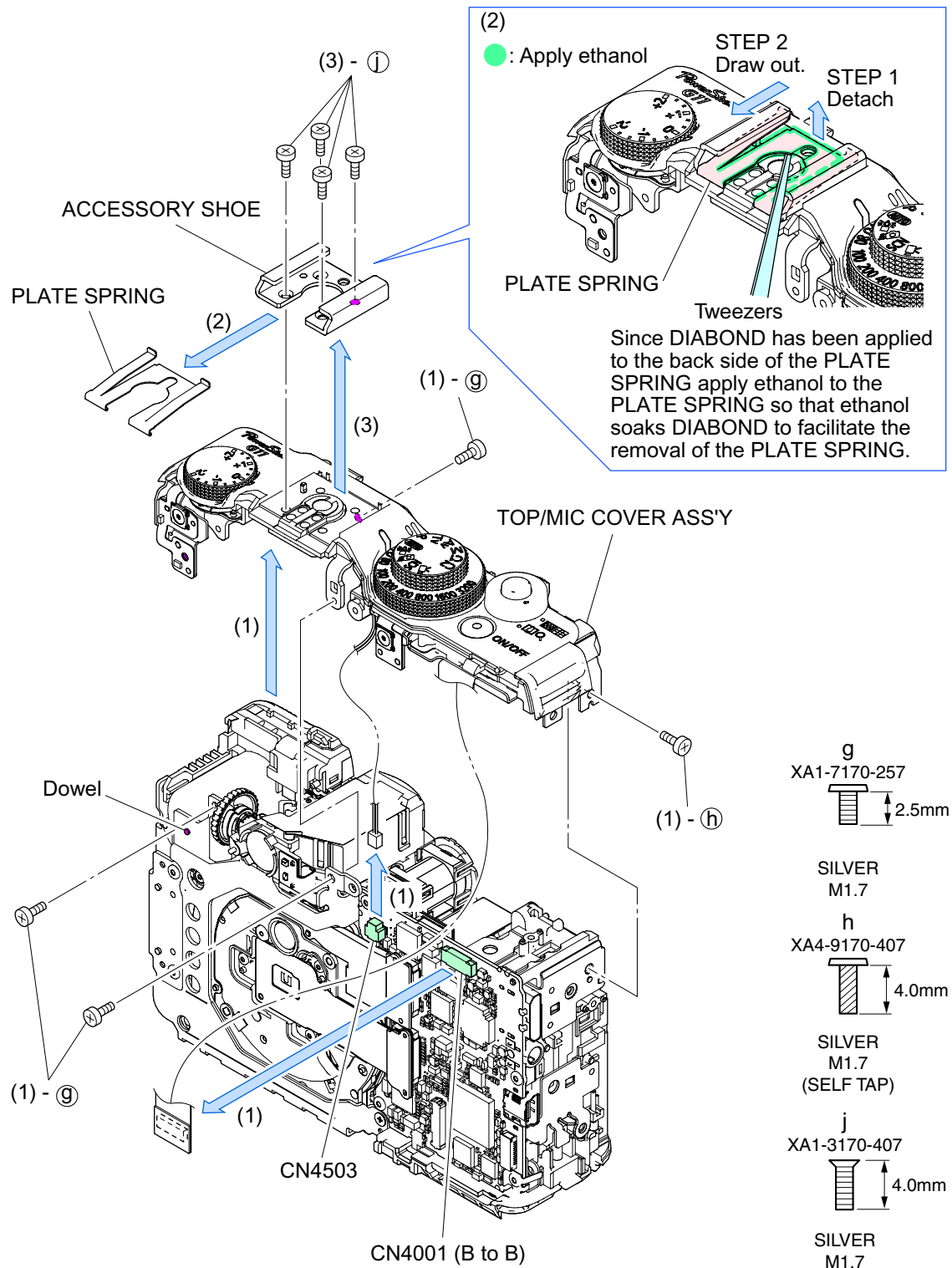
### 3.8 Separation of JACK COVER ASS'Y

- (1) Open the JACK COVER, remove one screw (i × 1), and then detach the JACK COVER ASS'Y.



### 3.9 Separation of TOP/MIC COVER ASS'Y

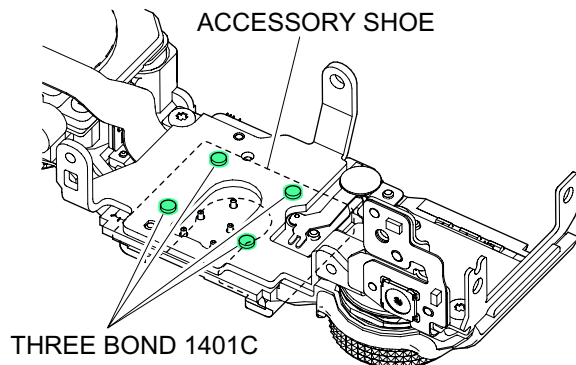
- (1) Remove four screws (g × 3, h × 1), disengage the dowel, disconnect the CN4001 (B to B) and CN4503, and then detach the TOP/MIC COVER ASS'Y.
- (2) Detach the PLATE SPRING.
- (3) Remove four screws (j × 4) and detach the ACCESSORY SHOE.



<Note on Reassembling>

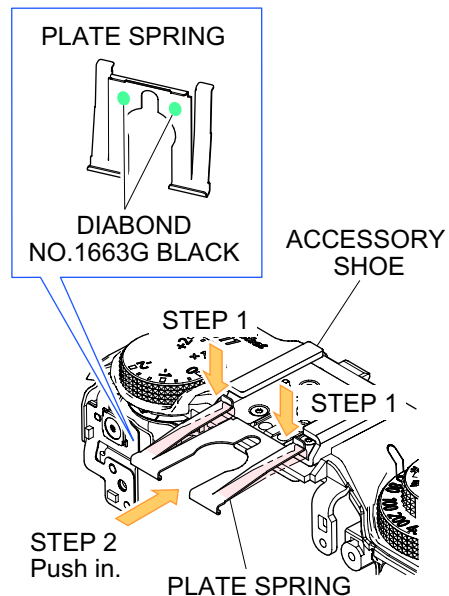
- (1) Attach the ACCESSORY SHOE as shown in the figure below.
- (2) Attach the PLATE SPRING as shown in the figure below.
- (3) Attach the TOP/MIC COVER ASS'Y as shown in the figure below.

Note on Reassembling (1)

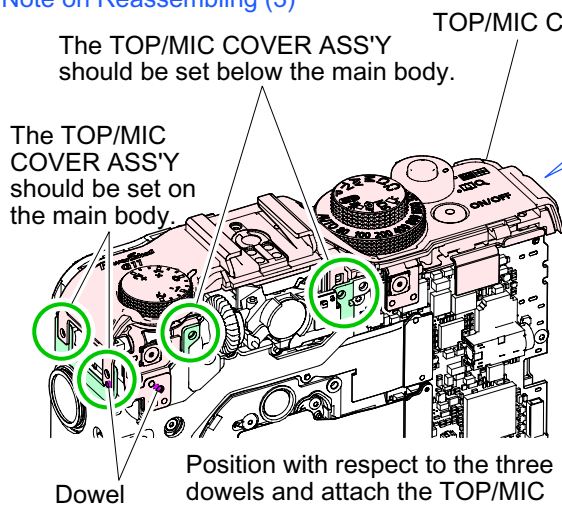


After attaching the ACCESSORY SHOE, apply the THREE BOND to the tips of the screws.

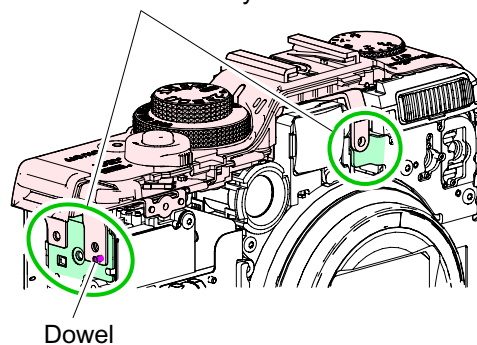
Note on Reassembling (2)



Note on Reassembling (3)



The TOP/MIC COVER ASS'Y should be set on the main body.

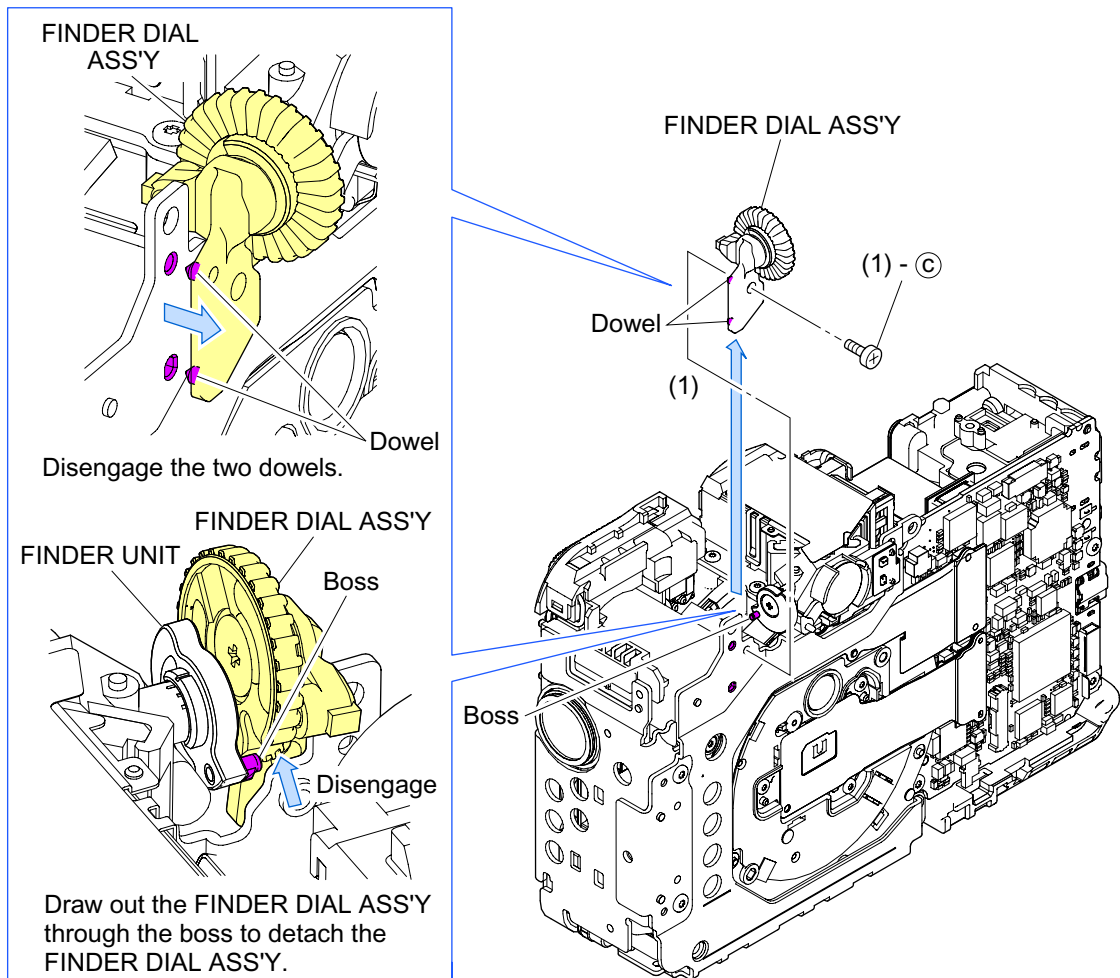


### 3.10 Separation of FINDER DIAL ASS'Y

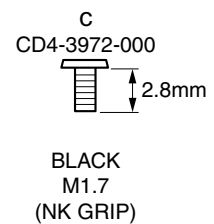
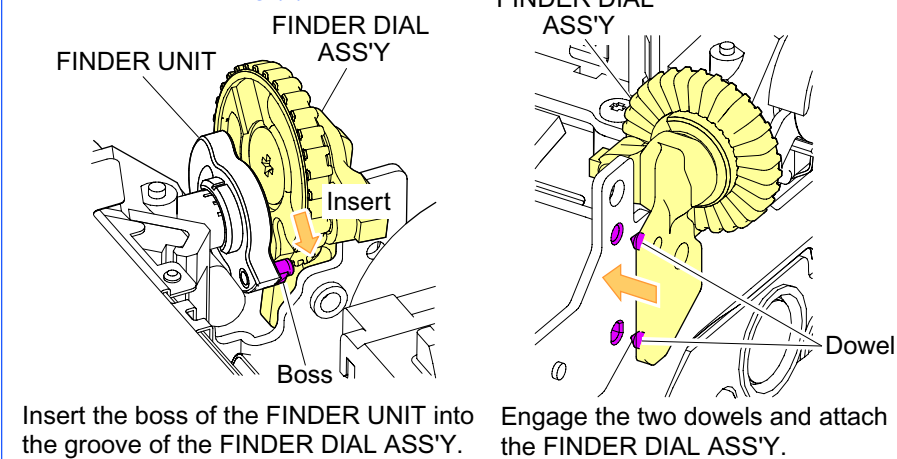
(1) Remove one screw (c×1), disengage the two dowels, and then detach the FINDER DIAL ASS'Y.

#### <Note on Reassembling>

(1) Attach the FINDER DIAL ASS'Y as shown in the figure below.



#### Note on Reassembling (1)



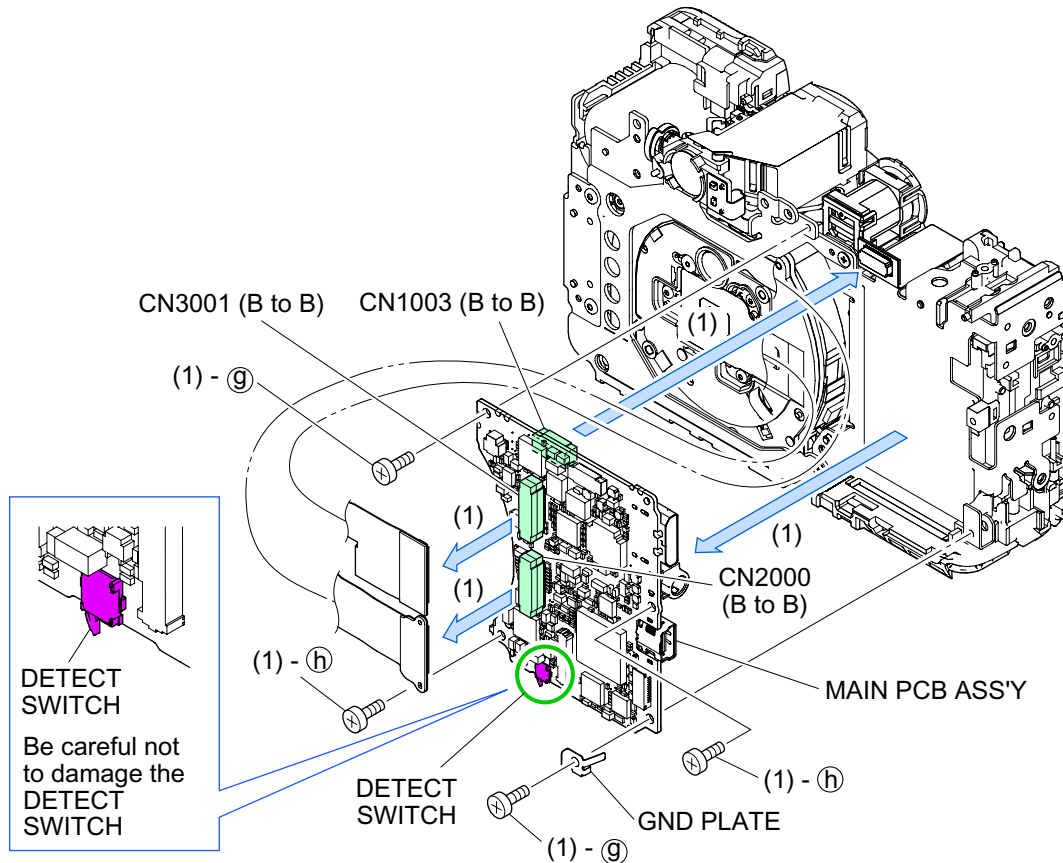
### 3.11 Separation of MAIN PCB ASS'Y

- (1) Remove four screws (g × 2, h × 2), disconnect the CN1003 (B to B), CN2000 (B to B) and CN3001 (B to B), and then detach the GND PLATE and MAIN PCB ASS'Y.

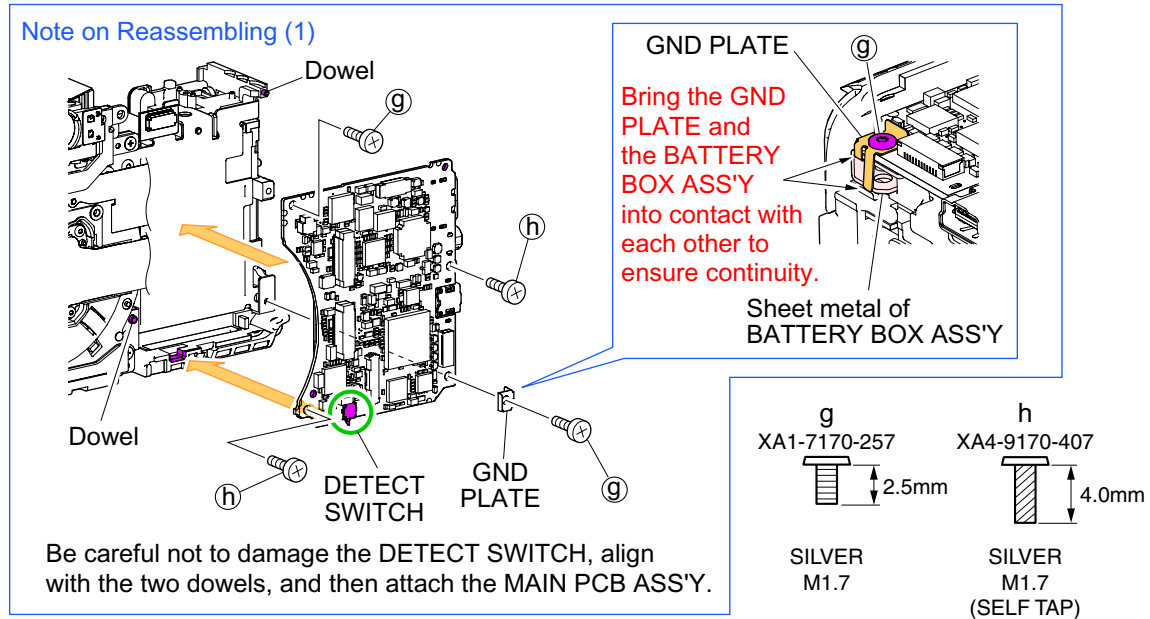
**Note:** Be careful not to damage the DETECT SWITCH.

#### <Note on Reassembling>

- (1) Attach the MAIN PCB ASS'Y and GND PLATE as shown in the figure below.

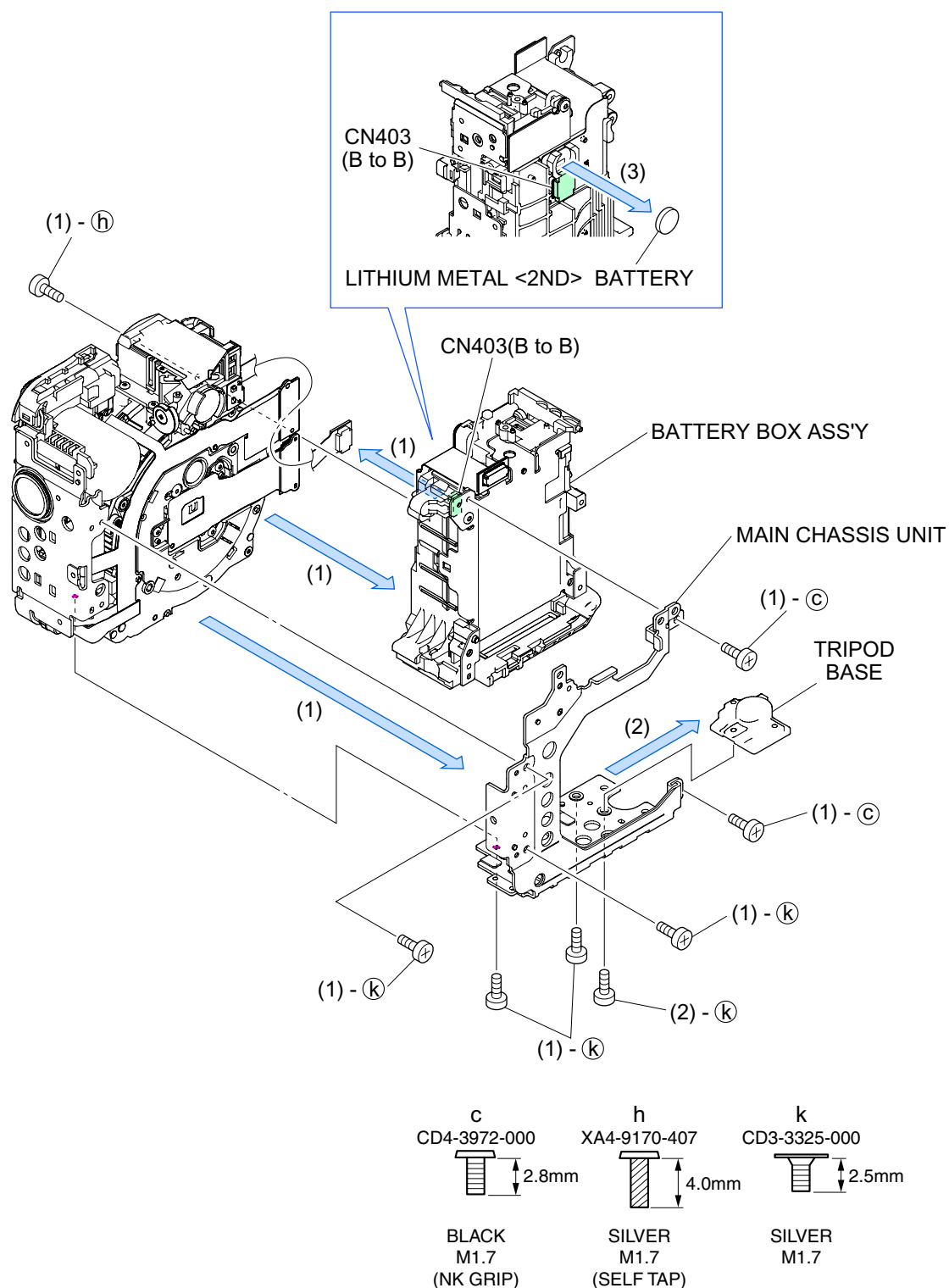


#### Note on Reassembling (1)



### 3.12 Separation of BATTERY BOX ASS'Y

- (1) Remove seven screws (c × 2, h × 1, k × 4), disconnect the CN403 (B to B), and then detach the MAIN CHASSIS UNIT and BATTERY BOX ASS'Y.
- (2) Remove one screw (k × 1) and detach the TRIPOD BASE from the MAIN CHASSIS UNIT.
- (3) Detach the LITHIUM METAL <2ND> BATTERY.

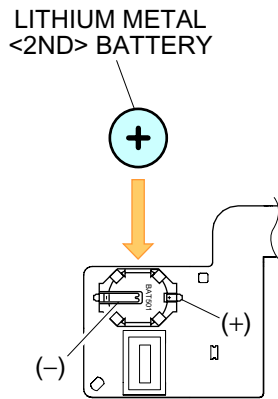




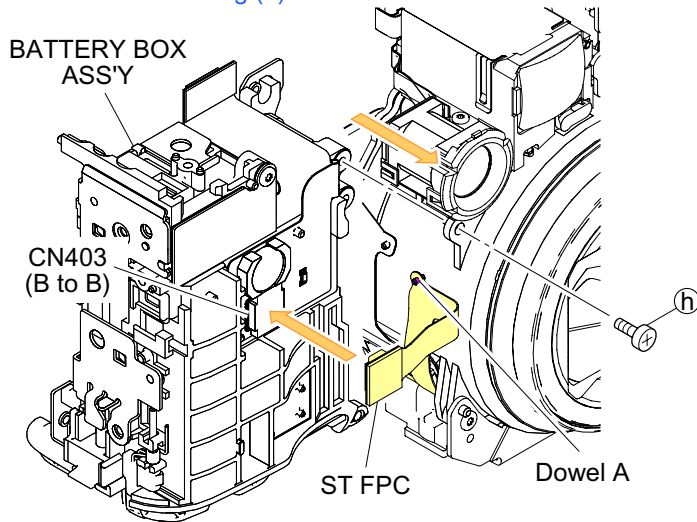
<Note on Reassembling>

- (1) Attach the LITHIUM METAL <2ND> BATTERY as shown in the figure below.
- (2) Attach the BATTERY BOX ASS'Y as shown in the figure below.
- (3) Attach the MAIN CHASSIS UNIT and TRIPOD BASE as shown in the figure below.

Note on Reassembling (1)

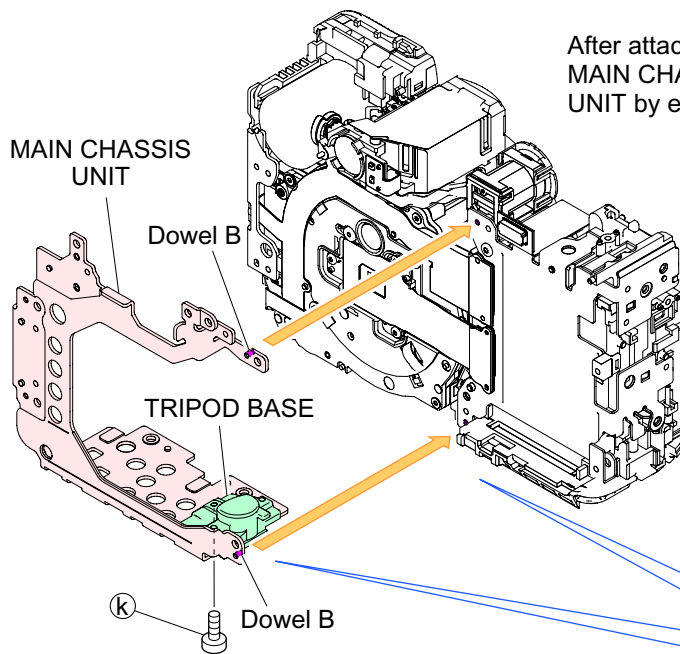


Note on Reassembling (2)

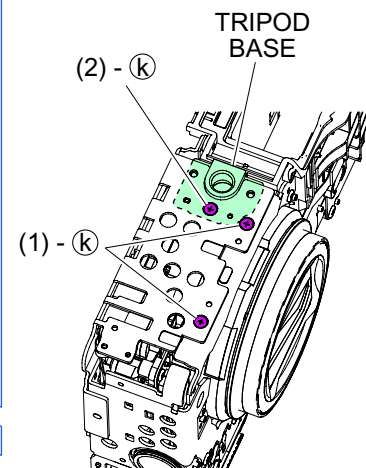


Make sure that the ST FPC is inserted into the dowel A, and then attach the BATTERY BOX ASS'Y by engaging the two dowels B.

Note on Reassembling (3)



After attaching the TRIPOD BASE to the MAIN CHASSIS, attach the MAIN CHASSIS UNIT by engaging two dowels B.

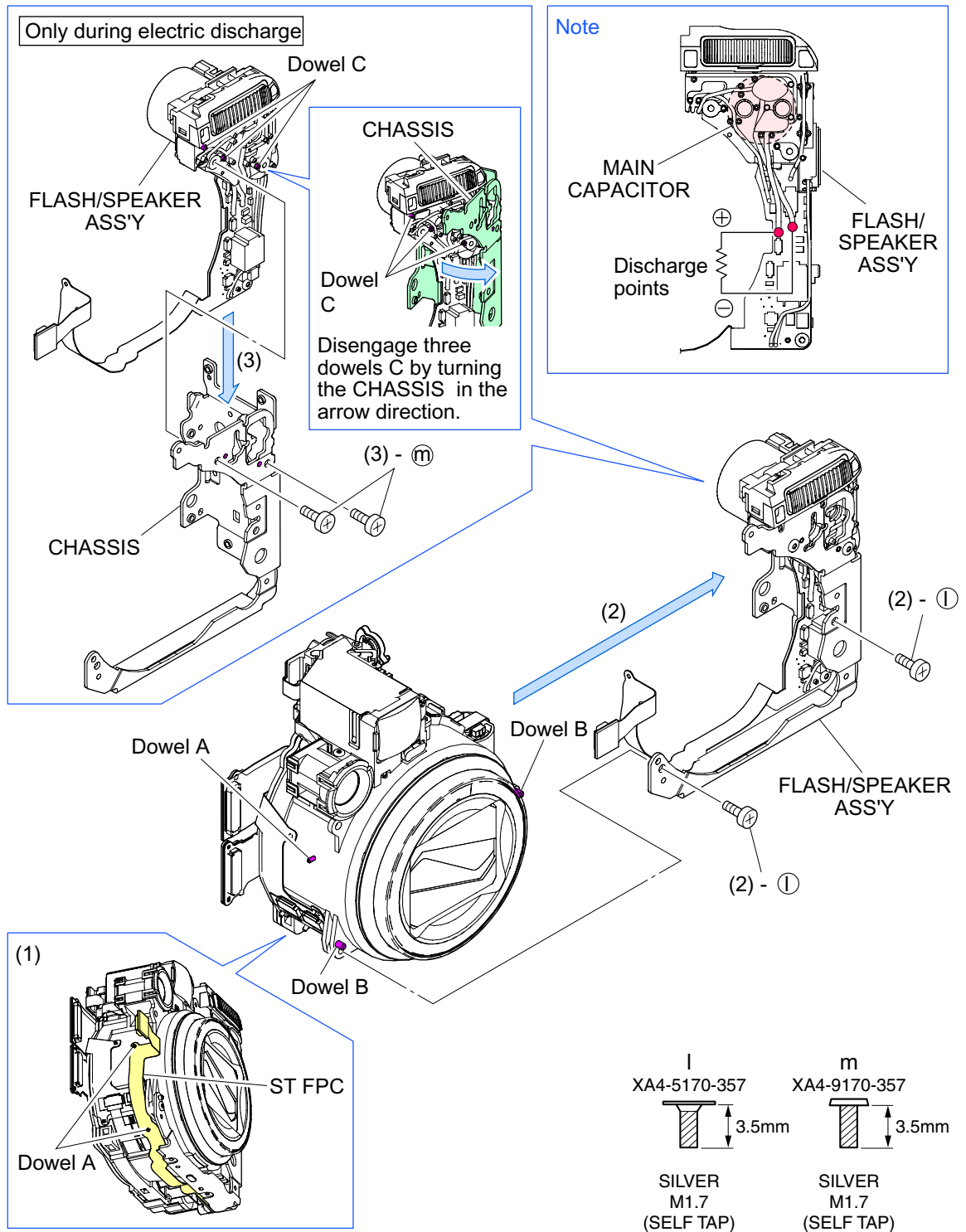


### 3.13 Separation of FLASH/SPEAKER ASS'Y

- (1) Disconnect the ST FPC from the two dowels A.
- (2) Remove two screws (l × 2), disengage the two dowels B, and then detach the FLASH/SPEAKER ASS'Y.
- (3) Remove two screws (m × 2), disengage the three dowels C, and then detach the CHASSIS from FLASH/SPEAKER ASS'Y.

**Note:** After separating the FLASH/SPEAKER ASS'Y, discharge the MAIN CAPACITOR."

(Because this is a high-voltage circuit, be careful to avoid electric shock and short-circuits with other components.)

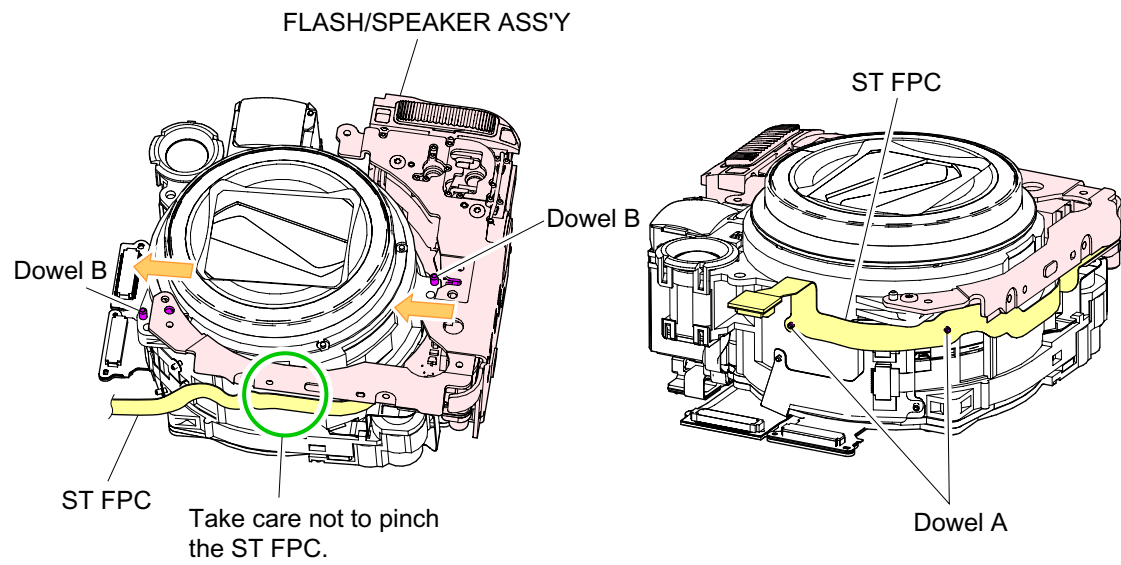




<Note on Reassembling>

(1) Attach the FLASH/SPEAKER ASS'Y as shown in the figure below.

Note on Reassembling (1)



**STEP 1** Attach the FLASH/SPEAKER ASS'Y by inserting it into the two dowels B.

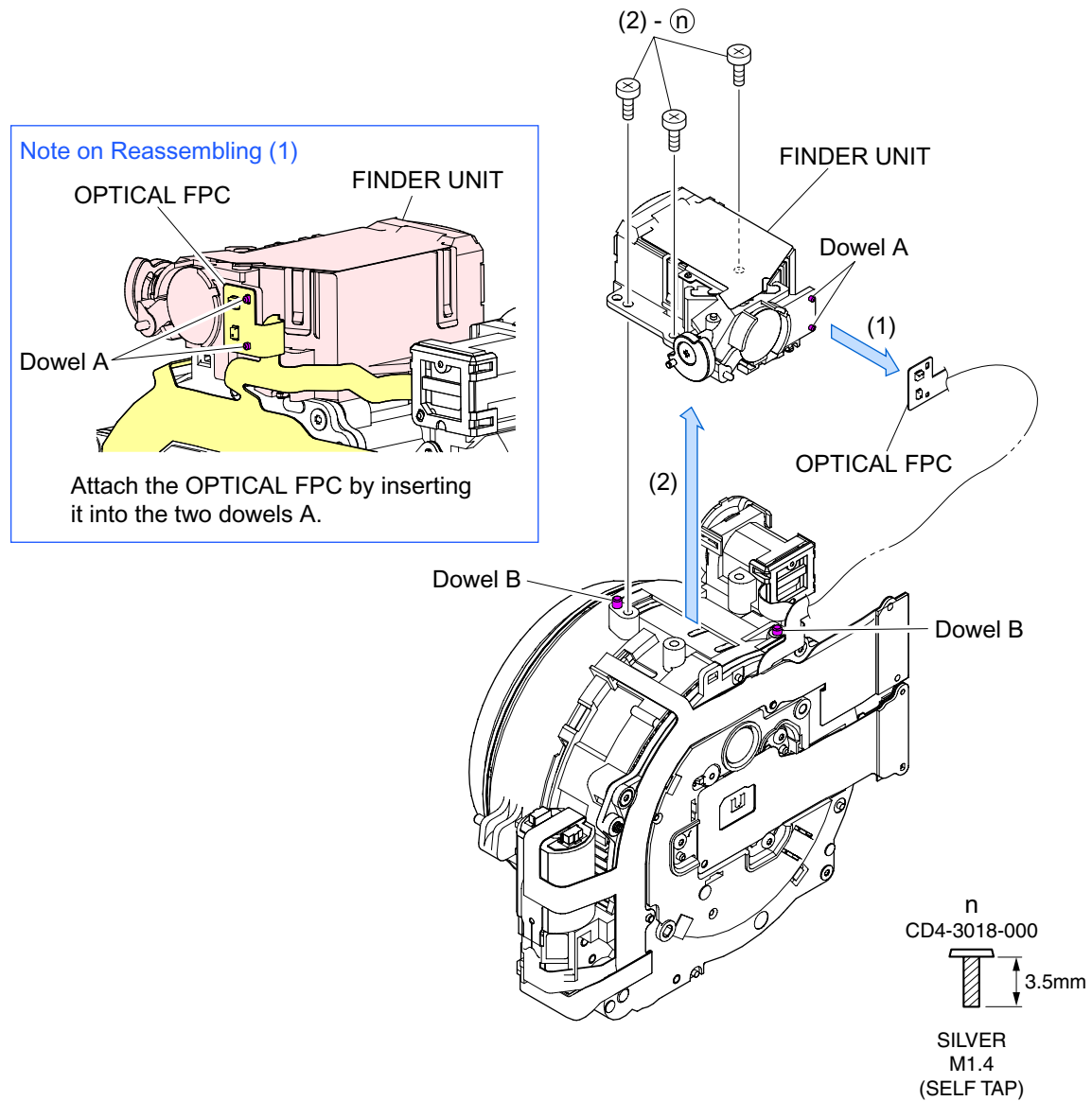
**STEP 2** Engage the ST FPC with two dowels A.

### 3.14 Separation of FINDER UNIT

- (1) Disengage the two dowels A and disconnect the OPTICAL FPC.
- (2) Remove three screws ( $n \times 3$ ) and detach the FINDER UNIT.

#### <Note on Reassembling>

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



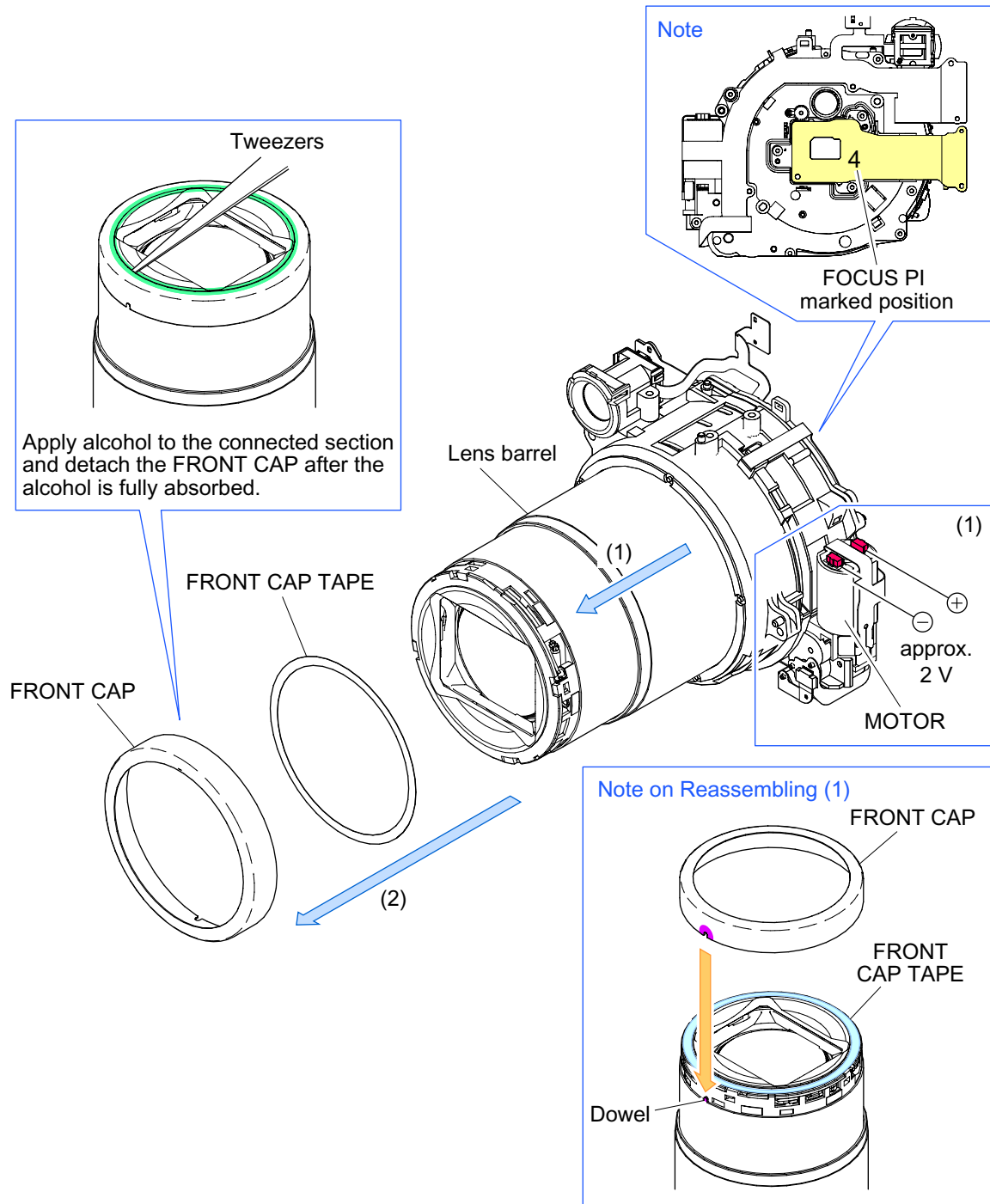
### 3.15 Disassembly of OPTICAL ASS'Y-1

- (1) Apply voltage (approx. 2.0 V) to the motor terminal to extend the lens barrel until it stops.
- (2) Peel off the FRONT CAP TAPE and detach the FRONT CAP.

Note: For the OPTICAL ASS'Y Adjustment jot down the data written on the OPTICAL ASS'Y.  
You will need it later.

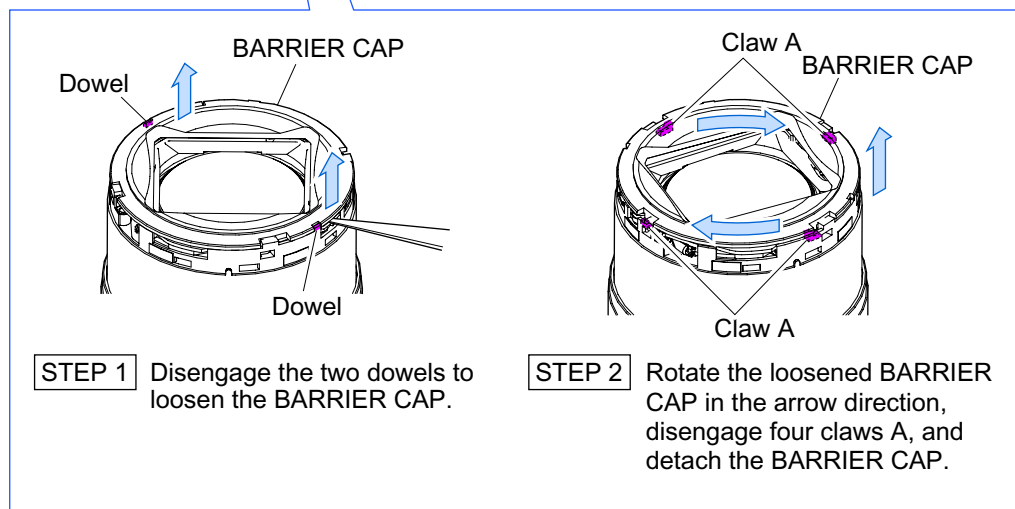
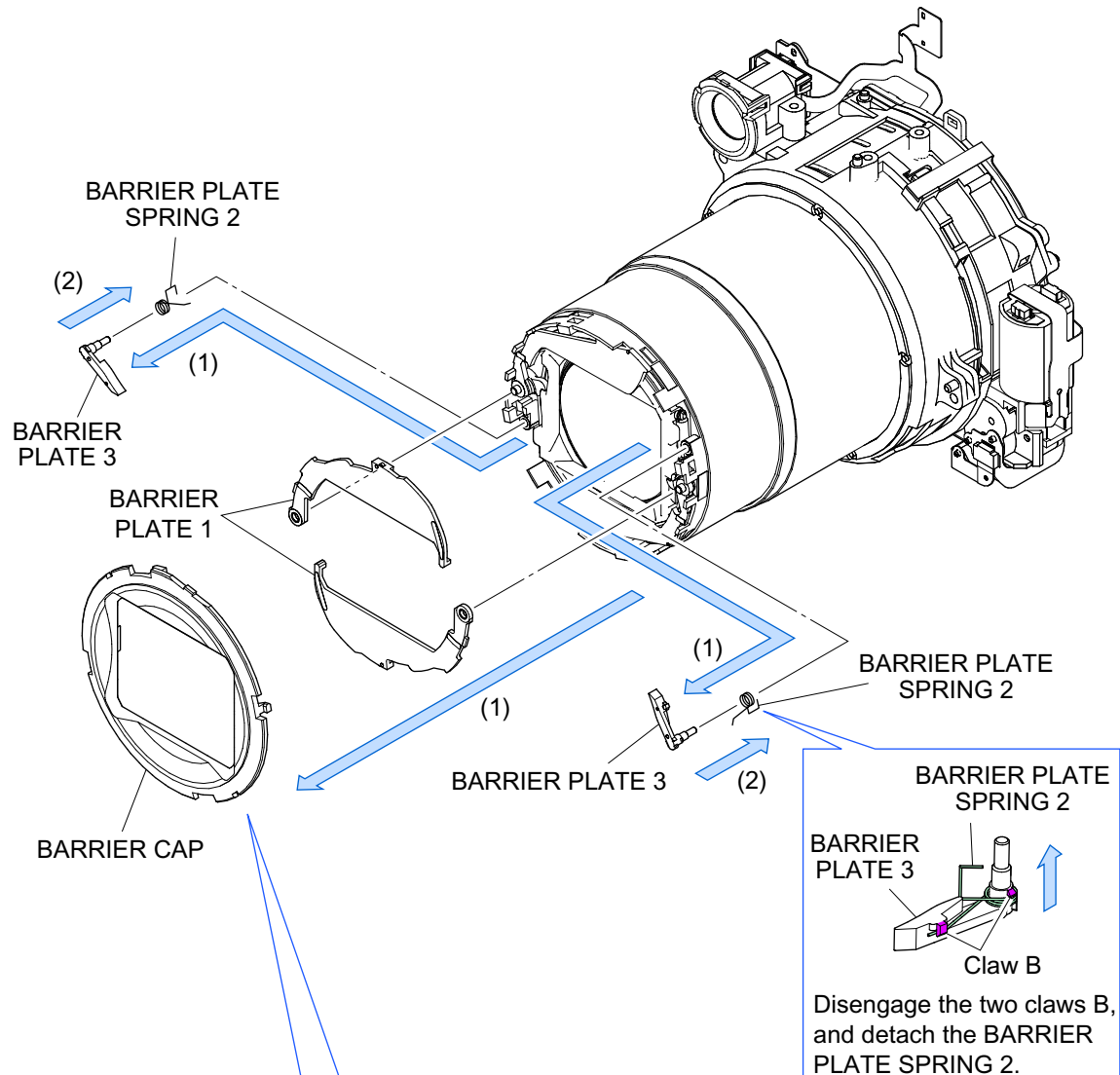
#### <Note on Reassembling>

- (1) Attach the FRONT CAP TAPE and FRONT CAP as shown in the figure below.



### 3.16 Disassembly of OPTICAL ASS'Y-2

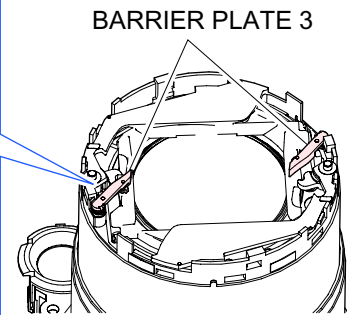
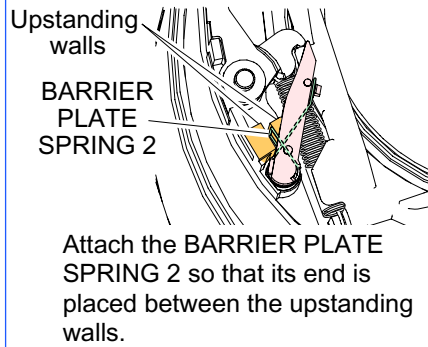
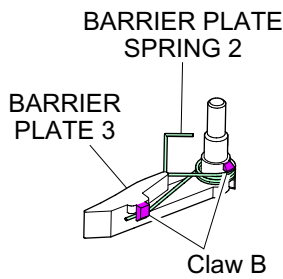
- (1) Disengage the two dowels and the four claws A, and then detach the BARRIER CAP, BARRIER PLATE 1 and BARRIER PLATE 3.
- (2) Detach the BARRIER PLATE SPRING 2 from BARRIER PLATE 3.



<Note on Reassembling>

- (1) Attach the BARRIER PLATE 3 and BARRIER PLATE SPRING 2 as shown in the figure below.
- (2) Attach the BARRIER PLATE 1 as shown in the figure below.
- (3) Attach the BARRIER CAP as shown in the figure below.

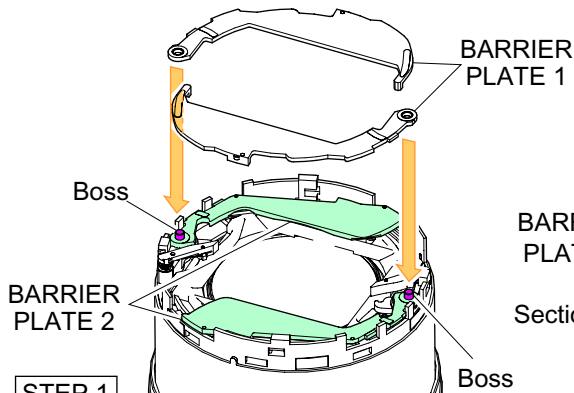
Note on Reassembling (1)



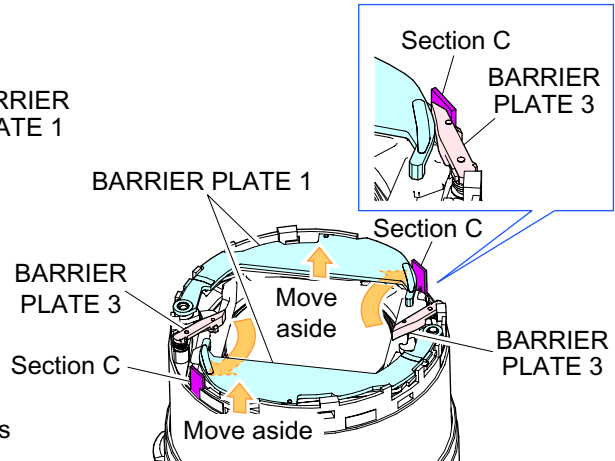
**STEP 1** Attach the BARRIER PLATE SPRING 2 to the BARRIER PLATE 3.

**STEP 2** Insert the BARRIER PLATE 3 to positions shown in the figure above and set it.

Note on Reassembling (2)

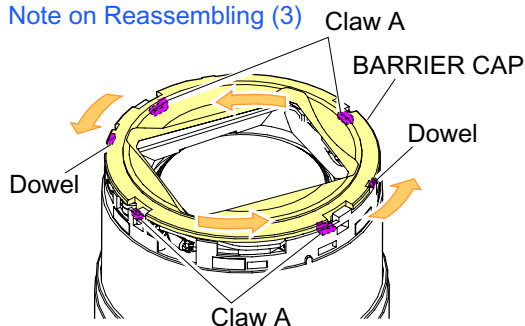


**STEP 1** Engage the BARRIER PLATE 1 in the bosses of the BARRIER PLATE 2 to attach.

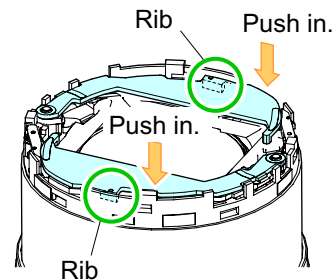


**STEP 2** Slightly loosen the BARRIER PLATES 1, and rotate the BARRIER PLATES 3 so that the BARRIER PLATES 3 are passed below either one of the BARRIER PLATES 1 and placed between one of the portions C and one of the BARRIER PLATES 1.

Note on Reassembling (3)



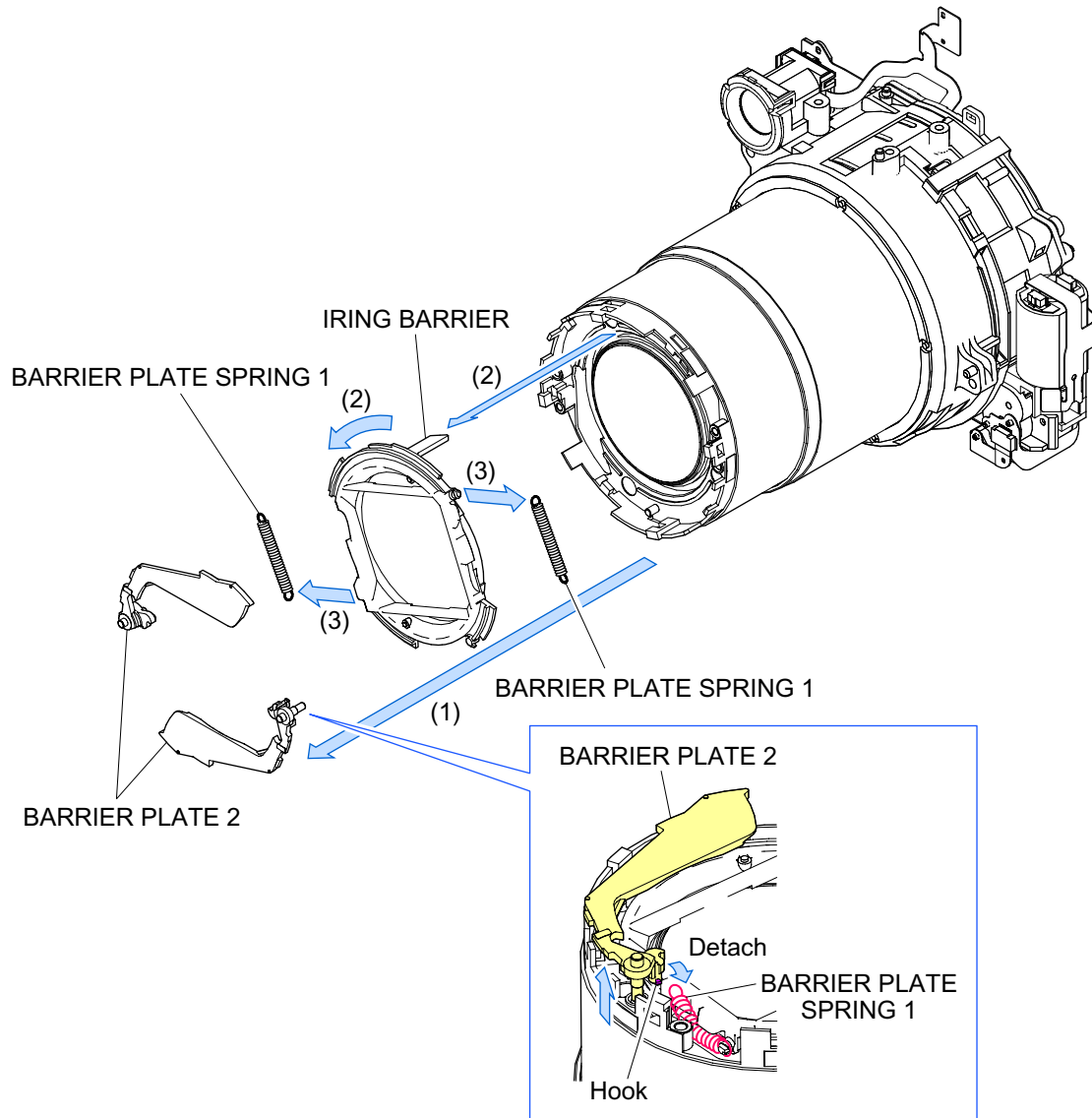
Place the BARRIER CAP as shown in the figure, rotate it and engage two dowels and four claws A to attach the BARRIER CAP.



**STEP 3** Push in the BARRIER PLATES 1 and engage the ribs with the BARRIER PLATES 2.

### 3.17 Disassembly of OPTICAL ASS'Y-3

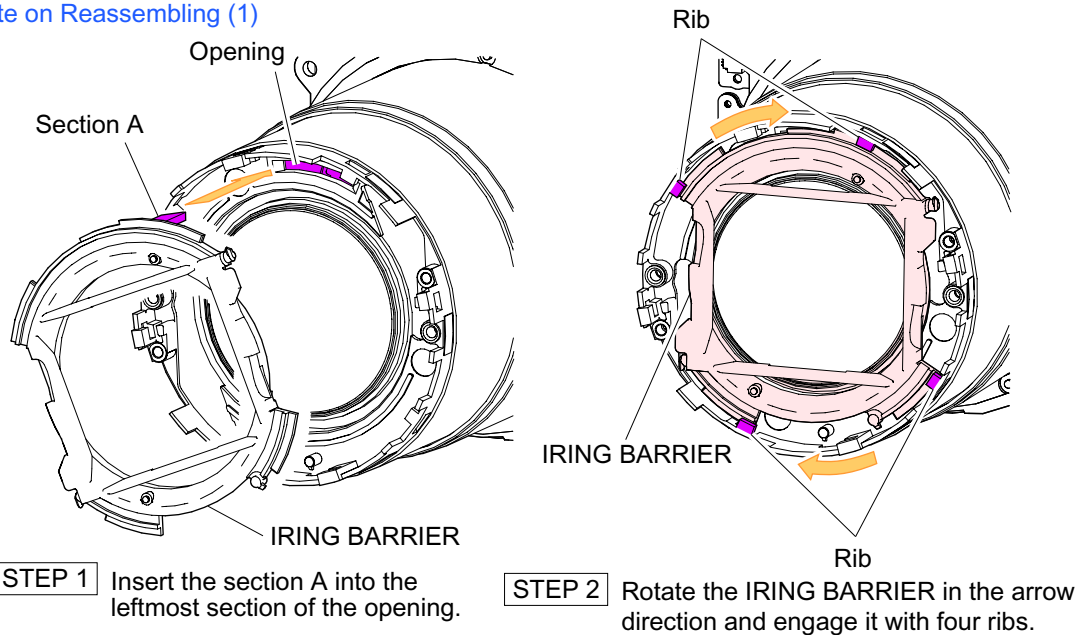
- (1) Detach the tip of the BARRIER PLATE SPRING 1 from the hook and detach the BARRIER PLATE 2.
- (2) Detach the IRING BARRIER by turning it.
- (3) Detach the BARRIER PLATE SPRING 1 from IRING BARRIER.



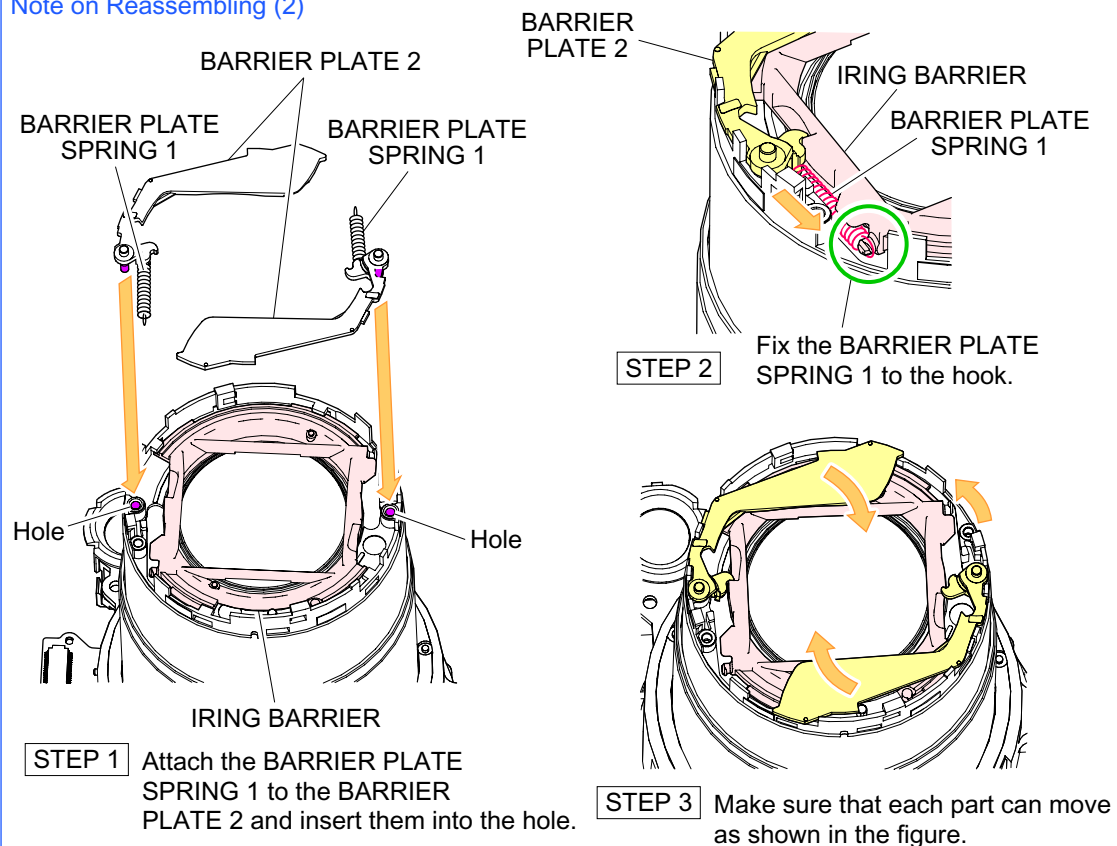
<Note on Reassembling>

- (1) Attach the IRING BARRIER as shown in the figure below.
- (2) Attach the BARRIER PLATE 2 and BARRIER PLATE SPRING 1 as shown in the figure below.

Note on Reassembling (1)

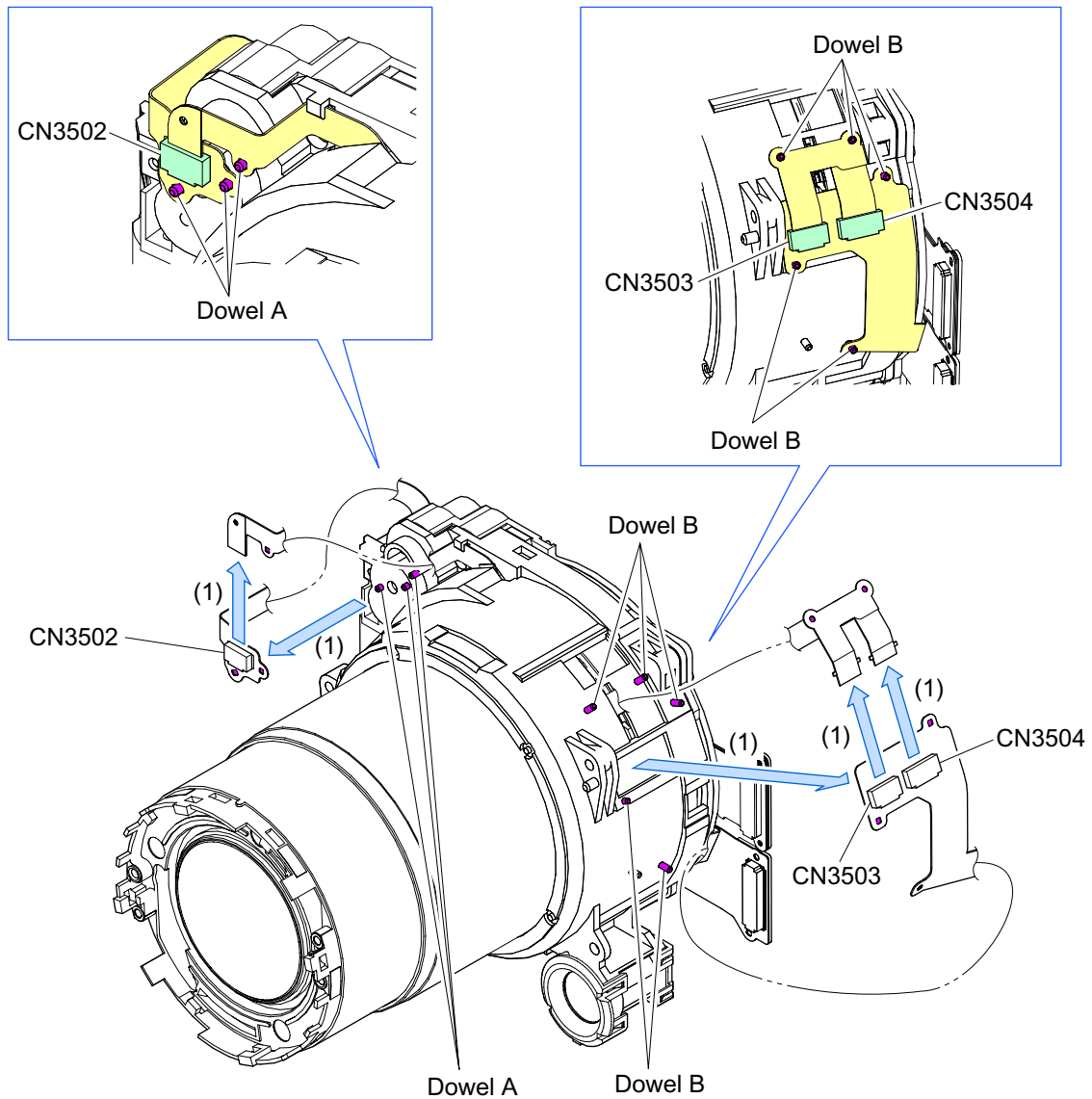


Note on Reassembling (2)



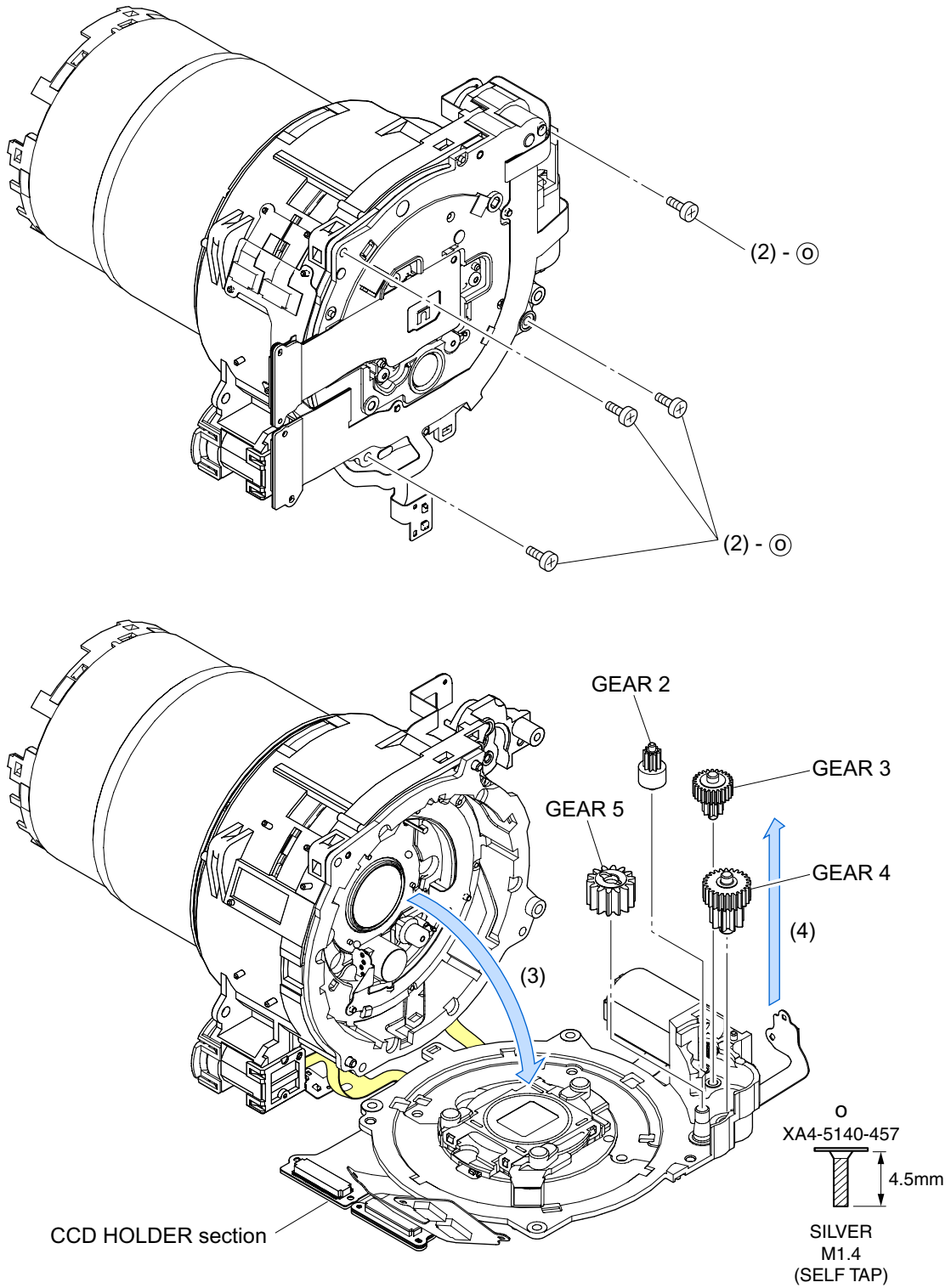
### 3.18 Disassembly of OPTICAL ASS'Y-4

- (1) Disengage the three dowels A and five dowels B, disconnect the CN3502 to CN3504, and then detach the OPTICAL FPC from main body.





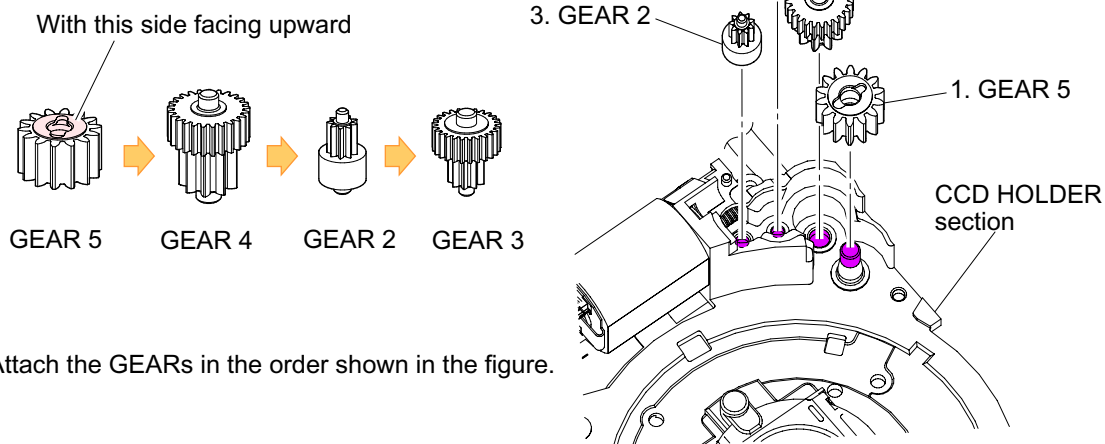
- (2) Remove four screws (o × 4).
  - (3) Detach the CCD HOLDER section while opening it.
- Note:** Be careful not to cut the FPC.
- (4) Detach the GEARS 2 to 4.



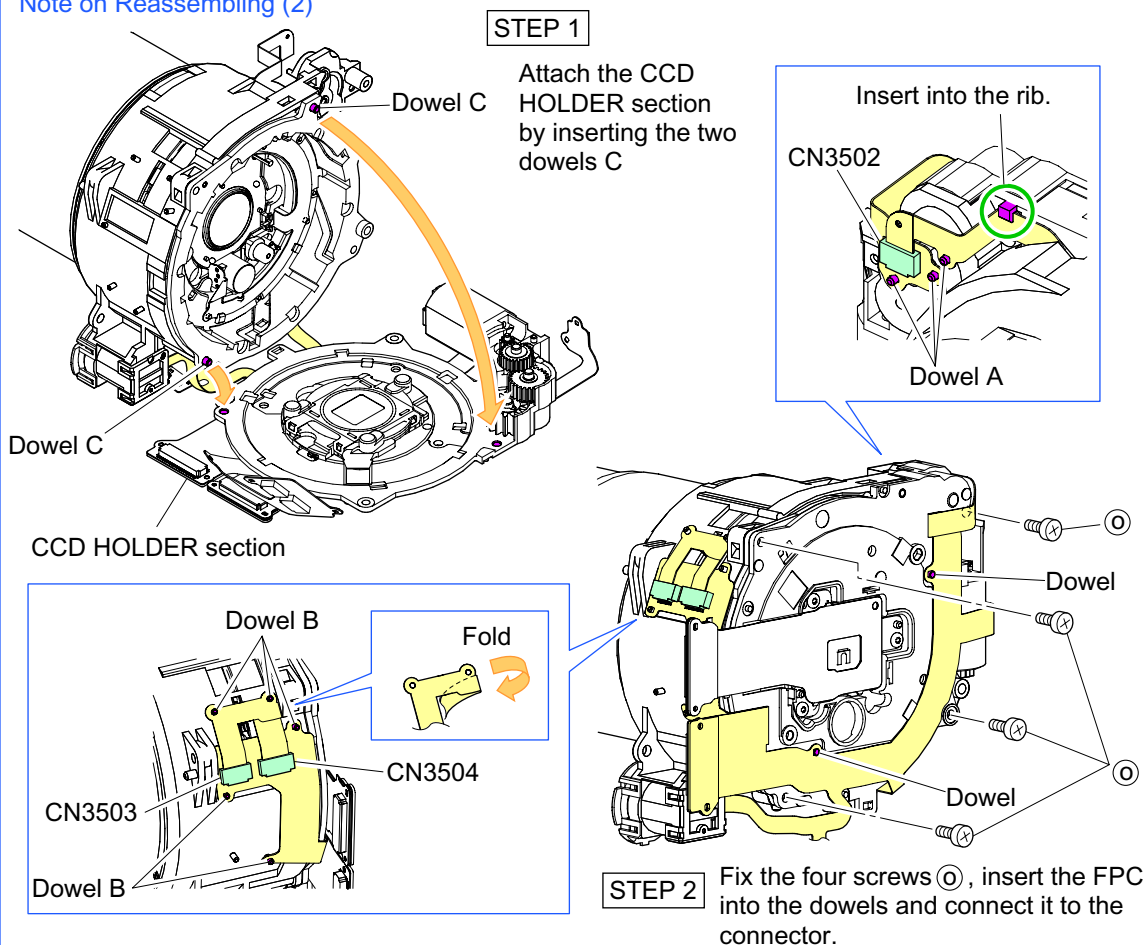
<Note on Reassembling>

- (1) Attach the GEAR 2 to 4 as shown in the figure below.
- (2) Attach the CCD HOLDER section as shown in the figure below.

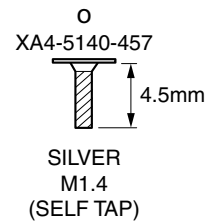
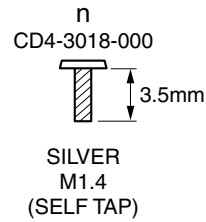
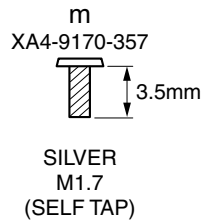
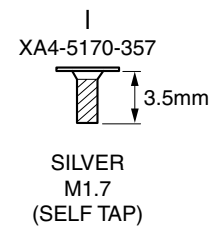
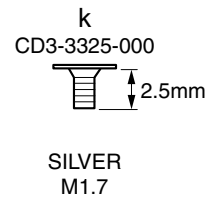
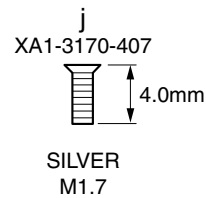
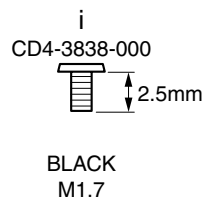
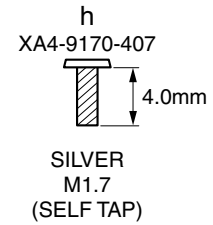
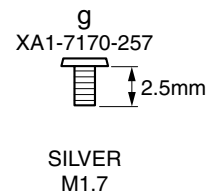
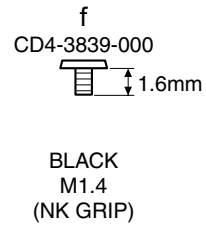
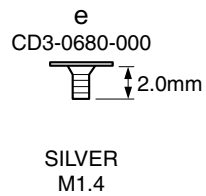
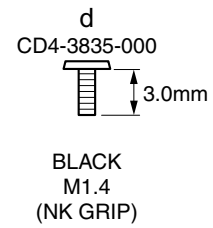
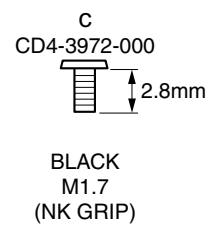
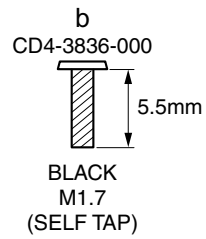
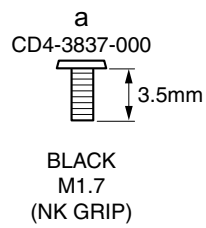
Note on Reassembling (1)



Note on Reassembling (2)



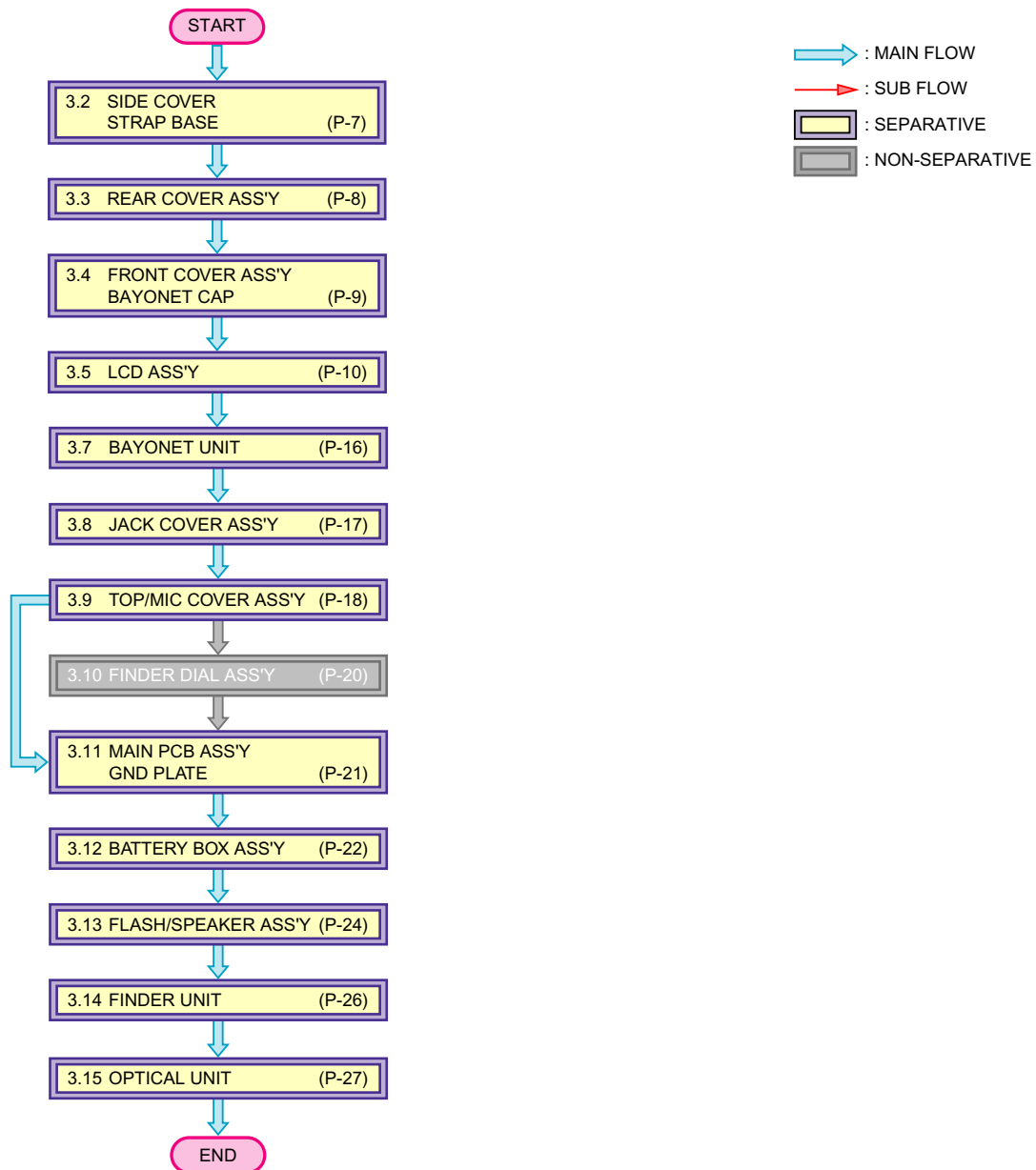
### 3.19 List of Screws



## 4. Detachment of Major Components

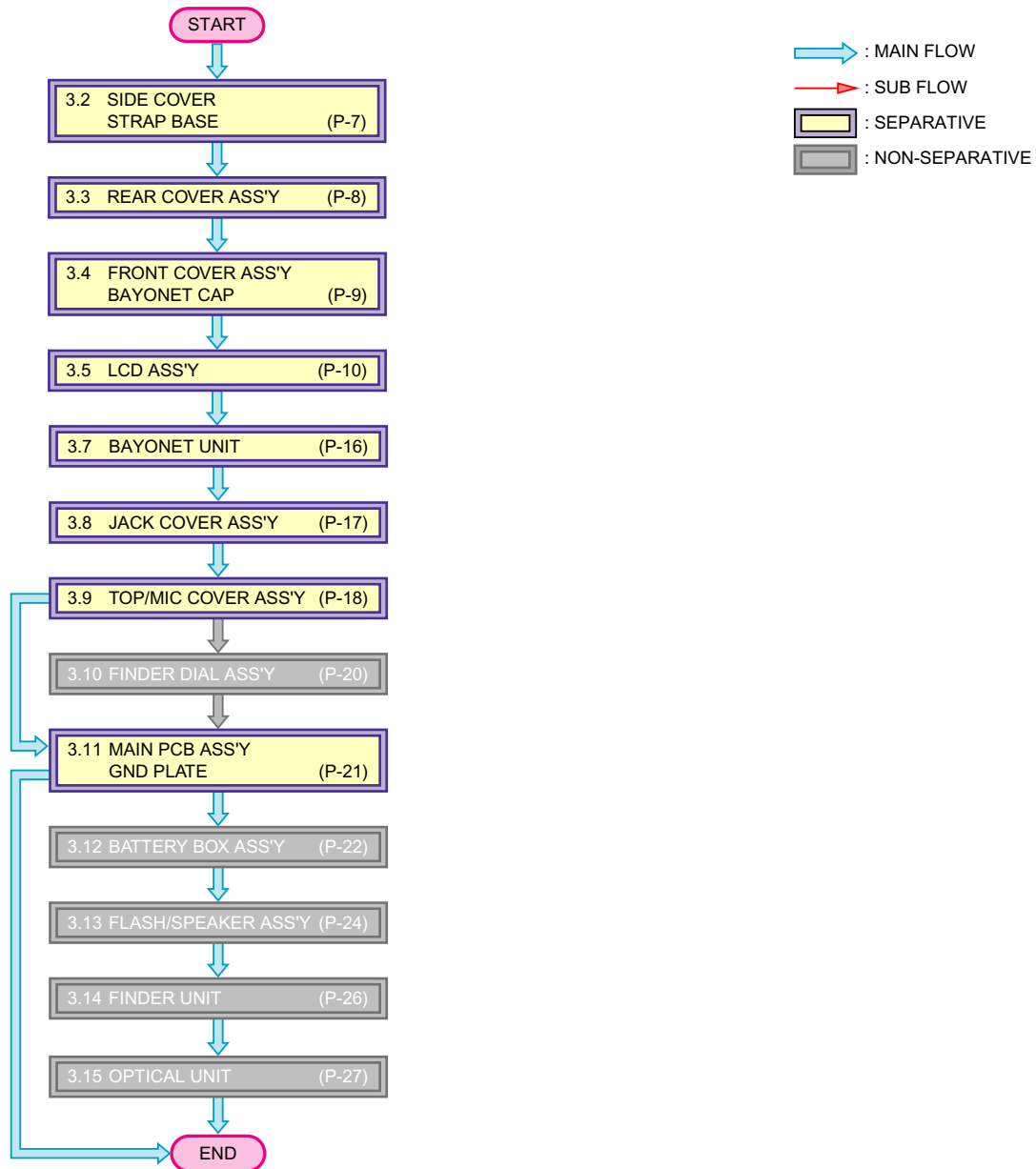
### 4.1 Separation Procedure of OPTICAL ASS'Y

- (1) The following flowchart shows the separation procedure of OPTICAL ASS'Y for PowerShot G11.
- (2) Reverse the disassembly procedure to reassemble it. \*The pages to refer to are shown in parentheses ().



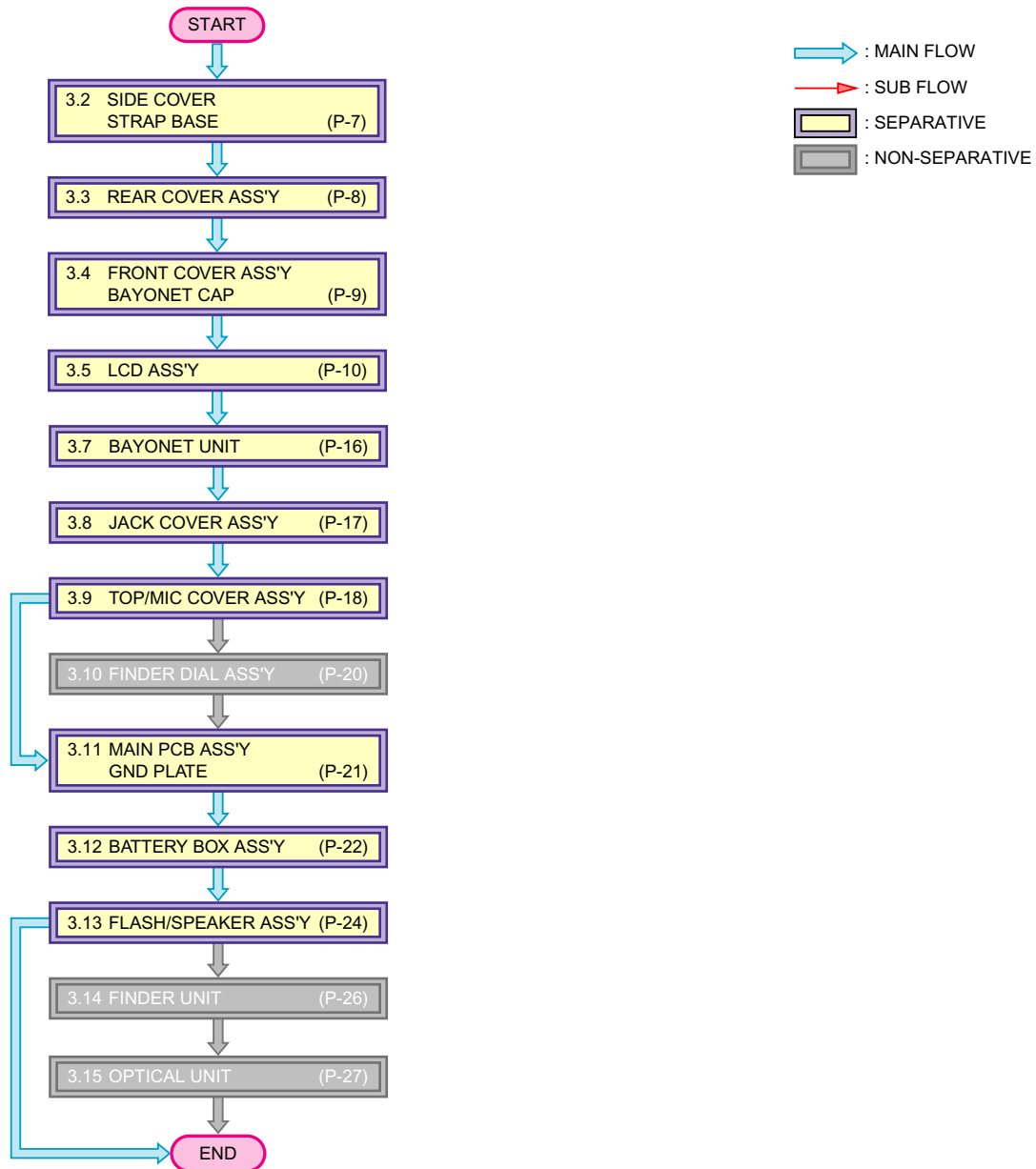
## 4.2 Separation Procedure of MAIN PCB ASS'Y

- (1) The following flowchart shows the separation procedure of MAIN PCB ASS'Y for PowerShot G11.
- (2) Reverse the disassembly procedure to reassemble it. \*The pages to refer to are shown in parentheses ().



### 4.3 Separation Procedure of FLASH/SPEAKER ASS'Y

- (1) The following flowchart shows the separation procedure of FLASH/SPEAKER ASS'Y for PowerShot G11.
- (2) Reverse the disassembly procedure to reassemble it. \*The pages to refer to are shown in parentheses ().



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