

DSC-W570

SERVICE MANUAL

Ver. 1.0 2010.12

LEVEL 2

Internal memory
ON BOARD



Photo: Black

US Model
Canadian Model
AEP Model
UK Model
E Model
Australian Model
Hong Kong Model
Chinese Model
Korea Model
Argentine Model
Brazilian Model
Japanese Model
Tourist Model

SERVICE NOTE (Check the following note before the service.)

– ENGLISH –

- 1-1. Notes on Using Tripod Adaptor
- 1-2. PRECAUTION ON REPLACING THE SY-275 BOARD
- 1-3. METHOD FOR COPYING OR ERASING THE DATA IN INTERNAL MEMORY
- 1-4. HOW TO WRITE DATA TO INTERNAL MEMORY
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- 1-10. TWO TUBE LUBRICATING BLOCK ASSY AND GROUP 1 FRAME REPLACING METHOD
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– JAPANESE –

- 1-1. 三脚アダプター使用時の注意
- 1-2. SY-275基板交換時の注意
- 1-3. 内蔵メモリーのデータコピーおよび消去方法
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- 1-6. フラッシュエラー発生時の対処法

DIGITAL STILL CAMERA

SONY[®]

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque \triangle sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Revision History

| Ver. | Date | History | Contents | S.M. Rev. issued |
|------|---------|------------------|----------|------------------|
| 1.0 | 2010.12 | Official Release | — | — |



Cyber-shot



LITHIUM ION N TYPE



SPECIFICATIONS

Camera

[System]

Image device: 7.75 mm (1/2.3 type) color CCD, Primary color filter
 Total pixel number of camera: Approx. 16.4 Megapixels
 Effective pixel number of camera: Approx. 16.1 Megapixels
 Lens: Carl Zeiss Vario-Tessar 5× zoom lens
 f = 4.5 mm – 22.5 mm (25 mm – 125 mm (35 mm film equivalent))
 F2.6 (W) – F6.3 (T)
 While shooting movies (16:9): 28 mm – 140 mm
 While shooting movies (4:3): 34 mm – 170 mm
 SteadyShot: Optical
 Exposure control: Automatic exposure, Scene Selection (12 modes)
 White balance: Automatic, Daylight, Cloudy, Fluorescent 1/2/3, Incandescent, Flash, One Push
 Underwater White Balance: Auto, Underwater 1/2, One Push
 Recording interval for Burst mode: Approx. 1.0 second
 File format:
 Still images: JPEG (DCF Ver. 2.0, Exif Ver. 2.3, MPF Baseline) compliant, DPOF compatible
 Movies: MPEG-4 Visual
 Recording media: Internal Memory (Approx. 27 MB), "Memory Stick Duo" media, SD cards
 Flash: Flash range (ISO sensitivity (Recommended Exposure Index) set to Auto):
 Approx. 0.2 m to 3.7 m (W)
 (7 7/8 inches to 12 feet 1 3/4 inches)
 Approx. 1.0 m to 1.5 m (T)
 (3 feet 3 3/8 inches to 4 feet 11 1/8 inches)

[Input and Output connectors]

Multi use terminal: Type3a
 (AV-out (SD/HD Component)/USB/DC-in):
 Video output
 Audio output (Monaural)
 USB communication
 USB communication: Hi-Speed USB (USB 2.0)

[LCD screen]

LCD panel:
 6.7 cm (2.7 type) TFT drive
 Total number of dots:
 230 400 (960 × 240) dots

[Power, general]

Power: Rechargeable battery pack NP-BN1, 3.6 V
 AC-L55 AC Adaptor (sold separately), 4.2 V
 Power consumption (during shooting): 1.1 W
 Operating temperature: 0°C to 40°C (32°F to 104°F)
 Storage temperature: -20°C to +60°C (-4°F to +140°F)
 Dimensions:
 91.0 mm × 51.5 mm × 19.1 mm
 (3 5/8 inches × 2 1/8 inches × 25/32 inches)
 (W/H/D, excluding protrusions)
 Mass (including NP-BN1 battery pack, "Memory Stick Duo" media):
 Approx. 116 g (4.1 oz)
 Microphone: Monaural
 Speaker: Monaural
 Exif Print: Compatible
 PRINT Image Matching III: Compatible

BC-CSN/BC-CSNB battery charger

Power requirements: AC 100 V to 240 V, 50/60 Hz, 2 W
 Output voltage: DC 4.2 V, 0.25 A
 Operating temperature: 0°C to 40°C (32°F to 104°F)
 Storage temperature: -20°C to +60°C (-4°F to +140°F)
 Dimensions:
 Approx. 55mm × 24mm × 83mm
 (2 1/4 inches × 31/32 inches × 3 3/8 inches)
 (W/H/D)
 Mass: Approx. 55 g (1.9 oz)

Rechargeable battery pack NP-BN1

Used battery: Lithium-ion battery
 Maximum voltage: DC 4.2 V
 Nominal voltage: DC 3.6 V
 Maximum charge voltage: DC 4.2 V
 Maximum charge current: 0.9 A
 Capacity:
 typical: 2.3 Wh (630 mAh)
 minimum: 2.2 Wh (600 mAh)

Design and specifications are subject to change without notice.

Model information table

| Model | DSC-W570 | | | |
|--------------|----------|--------------------|--------|---------------------|
| Destination | US, J | CND, E, AR, KR, BR | UK, CH | AEP, E, HK, AUS, JE |
| Color system | NTSC | NTSC | PAL | PAL |
| TransferJet | ○ | × | ○ | × |

- Abbreviation
 AR: Argentine model
 AUS: Australian model
 BR: Brazilian model
 CH: Chinese model
 CND: Canadian model
 HK: Hong Kong model
 J: Japanese model
 JE: Tourist model
 KR: Korea model



Cyber-shot



LITHIUM ION N TYPE



概略仕様

本体

[システム]

撮像素子: 7.75 mm (1/2.3型)カラー
 CCD原色フィルター
 総画素数: 約1640万画素
 カメラ有効画素数: 約1610万画素
 レンズ: カールツァイスバリオテッサー
 5倍ズームレンズ
 f=4.5 mm ~ 22.5 mm
 (25 mm ~ 125 mm (35 mmフィルム換算値))、
 F2.6 (W) ~ F6.3 (T)
 動画撮影時 (16:9):
 28 mm ~ 140 mm
 動画撮影時 (4:3):
 34 mm ~ 170 mm
 手ブレ補正: 光学式
 露出制御: 自動、シーンセレクション (12モード)
 ホワイトバランス: オート、太陽光、曇天、蛍光灯1、2、3、電球、フラッシュ、ワンタッチ
 水中ホワイトバランス: オート、水中1、2、ワンタッチ
 連写の撮影間隔: 約1.0秒
 記録方式:
 静止画記録方式:
 JPEG (DCF Ver. 2.0, Exif Ver. 2.3, MPF Baseline) 準拠、DPOF対応
 動画記録方式: MPEG-4 Visual
 記録メディア: 内蔵メモリー 約27 MB、"メモリースティック デュオ"、SDカード
 フラッシュ: 撮影範囲 (ISO感度 (推奨露光指数) がオートのとき)
 約0.2 m ~ 3.7 m (W) / 約1.0 m ~ 1.5 m (T)

[入出力端子]

マルチ端子: Type3a (AV出力 (SD/HD コンポーネント) / USB/DC-in)
 映像出力
 音声出力 (モノラル)
 USB通信
 USB通信: Hi-Speed USB (USB 2.0)

[液晶画面]

液晶パネル:
 6.7 cm (2.7型)、
 TFT駆動
 総ドット数: 230 400 (960 × 240) ドット

[電源・その他]

電源: リチャージャブルバッテリー バックNP-BN1、3.6 V
 ACアダプター AC-L55A (別売)、4.2 V
 消費電力 (撮影時): 1.1 W
 動作温度: 0°C ~ 40°C
 保存温度: -20°C ~ +60°C
 外形寸法:
 91.0 mm × 51.5 mm × 19.1 mm
 (幅 × 高さ × 奥行き、突起部を除く)
 本体質量 (バッテリー NP-BN1、"メモリースティック デュオ" を含む):
 約116 g
 マイクロホン: モノラル
 スピーカー: モノラル
 Exif Print: 対応
 PRINT Image Matching III: 対応

バッテリーチャージャー BC-CSN/BC-CSNB

定格入力: AC 100 V ~ 240 V, 50/60 Hz, 2 W
 定格出力: DC 4.2 V, 0.25 A
 動作温度: 0°C ~ 40°C
 保存温度: -20°C ~ +60°C
 外形寸法:
 約55 mm × 24 mm × 83 mm
 (幅 × 高さ × 奥行き)
 本体質量: 約55 g

リチャージャブルバッテリー バックNP-BN1

使用電池: リチウムイオン蓄電池
 最大電圧: DC 4.2 V
 公称電圧: DC 3.6 V
 容量: 2.3 Wh (630 mAh)

本機や付属品の仕様および外観は、改良のため予告なく変更することがあります。ご了承ください。

Caution

Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type.
Dispose of used batteries according to the instructions.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK \triangle OR DOTTED LINE WITH MARK \triangle ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE \triangle SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer.

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are “pinched” or contact high-wattage resistors.
3. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
4. Look for parts which, through functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
5. Check the B+ voltage to see it is at the values specified.
6. Flexible Circuit Board Repairing
 - Set the soldering iron tip temperature to 350 °C approximately.
 - Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
 - Be careful not to apply force on the conductor when soldering or unsoldering.

UNLEADED SOLDER

This unit uses unleaded solder.
Boards requiring use of unleaded solder are printed with the lead free mark (LF) indicating the solder contains no lead.
(Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size.)



LF : LEAD FREE MARK

Be careful to the following points to solder or unsolder.

- Set the soldering iron tip temperature to 350 °C approximately.
If cannot control temperature, solder/unsolder at high temperature for a short time.
Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!
Unleaded solder is more viscous (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Be sure to control soldering iron tips used for unleaded solder and those for leaded solder so they are managed separately. Mixing unleaded solder and leaded solder will cause detachment phenomenon.

注意

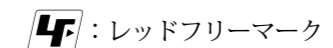
電池の交換は、正しく行わないと破裂する恐れがあります。
電池を交換する場合には必ず同じ型名の電池又は同等品と交換してください。
使用済み電池は、取扱指示に従って処分してください。

サービス、点検時には次のことにご注意ください。

1. 注意事項をお守りください。
サービスのとき特に注意を要する個所については、キャビネット、シャーシ、部品などにラベルや捺印で注意事項を表示しています。これらの注意書き及び取扱説明書等の注意事項を必ずお守り下さい。
2. 指定部品のご使用を
セットの部品は難燃性や耐電圧など安全上の特性を持ったものとなっています。従って交換部品は、使用されていたものと同じ特性の部品を使用して下さい。特に回路図、部品表に \triangle 印で指定されている安全上重要な部品は必ず指定のものをご使用下さい。
3. 部品の取付けや配線の引きまわしはもとどおり
安全上、チューブやテープなどの絶縁材料を使用したり、プリント基板から浮かして取付けた部品があります。また内部配線は引きまわしやクランパによって発熱部品や高圧部品に接近しないよう配慮されていますので、これらは必ずもとどおりにして下さい。
4. サービス後は安全点検を
サービスのために取外したネジ、部品、配線がもとどおりになっているか、またサービスした個所の周辺を劣化させてしまったところがないかなどを点検し、安全性が確保されていることを確認して下さい。
5. チップ部品交換時の注意
 - 取外した部品は再使用しないで下さい。
 - タンタルコンデンサのマイナス側は熱に弱いため交換時は注意して下さい。
6. フレキシブルプリント基板の取扱いについて
 - 半田こてのこて先温度は約350°Cに設定してください。
 - 同一パターンに何度もコテ先を当てないで下さい。(3回以内)
 - パターンに力が加わらないよう注意して下さい。

無鉛半田について

本機には無鉛半田が使用されています。
無鉛半田を使用している基板には、無鉛(Lead Free)を意味するレッドフリーマークがプリントされています。
(注意：基板サイズによっては、無鉛半田を使用していてもレッドフリーマークがプリントされていないものがあります)



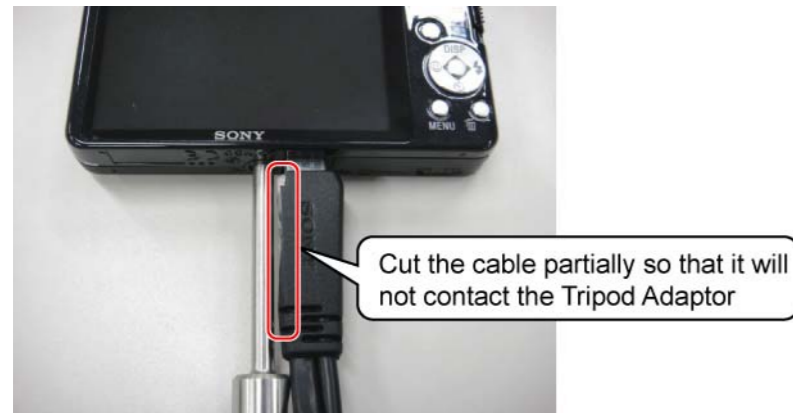
LF : レッドフリーマーク

無鉛半田は、下記の点に注意して使用してください。

- 半田こてのこて先温度は約350°Cに設定してください。
温度調節が無理な場合は、高温短時間で作業を行ってください。
注意：半田こてを長く当てすぎると、基板のパターン(銅箔)がはがれてしまうことがありますので、注意してください。また、従来の半田よりも粘性が強いため、IC端子などが半田ブリッジしないように注意してください。
- 半田こてのこて先は、必ず無鉛半田用と有鉛半田用に分けて管理してください。
無鉛半田と有鉛半田が混在すると剥離現象が発生してしまいます。

1-1. Notes on Using Tripod Adaptor

This model uses a Tripod Adaptor for adjustments.
When using a Tripod Adaptor, alter the USB, A/V cable for multi-use terminal as shown in the figure below.



1-2. PRECAUTION ON REPLACING THE SY-275 BOARD

DESTINATION DATA

When you replace to the repairing board, the written destination data of repairing board also might be changed to original setting. Start the Adjust Manual in the Adjust Station and execute the “DESTINATION DATA WRITE”.

RESTORE DATA

When you replace to the repairing board, get the data from the former one.
Start the Adjust Manual in the Adjust Station and perform “RESTORE DATA” to get the data.
The data getting for this model is as follows.

- USB SERIAL No.
- Angular Velocity Sensor Sensitivity adjustment
- AWB standard data input & check, Color reproduction check

Note: When you cannot read data from the former replace the same time SY-275 board and lens.

Regarding the PMB Portable

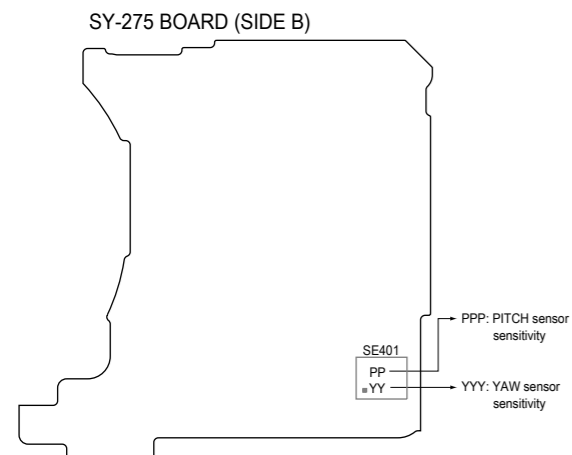
PMB Portable has been written in internal memory.
SY-275 board for service is supplied with written the PMB Portable.

USB SERIAL No.

The set is shipped with a unique ID (USB Serial No.) written in it.
This ID has not been written in a new board for service, and therefore it must be entered after the board replacement.
Start the Adjust Manual in the Adjust Station and execute the “USB SERIAL No. INPUT”.

Angular Velocity Sensor

When you replace to the repairing board, write down the sensitivity displayed on the angular velocity sensor (SE401).
Start the Adjust Manual in the Adjust Station and execute the “Angular velocity sensor sensitivity adj”.



Note: The sensor sensitivity of SE401 of SY-275 board is written only repair parts.

1-3. METHOD FOR COPYING OR ERASING THE DATA IN INTERNAL MEMORY

The data can be copied/erased by the operations on the HOME screen. (When erasing the data, execute formatting the internal memory.)

Note 1:When replacing the SY-275 board, erase the data in internal memory of the board before replacement.

Note 2:When replacing the SY-275 board, execute formatting and initialize the internal memory after replacement.

Method for Copying the Data in Internal Memory

Copy

Copies all images in the internal memory to a memory card.

1. Insert a memory card with sufficient free capacity into the camera.
2. MENU → (Settings) → (Memory Card Tool) → [Copy] → [OK] → ●

Notes

- Use a fully charged battery pack. If you attempt to copy image files using a battery pack with little remaining charge, the battery pack may run out, causing copying to fail or possibly corrupting the data.
- Images cannot be copied individually.
- The original images in the internal memory are retained even after copying. To delete the contents of the internal memory, remove the memory card after copying, then format the internal memory ([Format] in [Internal Memory Tool]).
- A new folder is created on the memory card and all the data will be copied to it. You cannot choose a specific folder and copy images to it.

Method for Formatting the Internal Memory or “Memory Stick Duo” media

Format

Formats the memory card or the internal memory. When you use a memory card with this camera for the first time, it is recommended to format the card using the camera for stable performance of the memory card before shooting. Note that formatting permanently erases all data on the memory card, and is unrecoverable. Save precious data on a computer, etc.

1. MENU → (Settings) → (Memory Card Tool) or (Internal Memory Tool) → [Format] → [OK] → ●


Note

- Note that formatting permanently erases all data including even protected images.

1-4. HOW TO WRITE DATA TO INTERNAL MEMORY

Usually, the camera has been set so as to disable the data writing from the PC to the internal memory of the camera. This setting must be changed temporarily when the data is to be written to the internal memory such as a case after the board replacement. To change settings is enabled with using the writing enabler tool (Write Enable Tool) on the Adjust Manual is activating from the Adjust Station.

Data writing method

- 1) Start the Adjust Manual from the Adjust Station.
- 2) Click  (Write Enable Tool) button.
- 3) Click “Activate Write Enable Mode” button.



- 4) Upon completion of the setting change, the following message will be displayed.



- 5) Return the driver to the original one, and connect the PC to the camera (USB mode: Mass Storage).
- 6) Write the data read out into the PC to the internal memory of the camera.
- 7) Disconnect the PC from the camera, and turn off the camera.

Note: By turning off the camera, the write enable setting is reset.

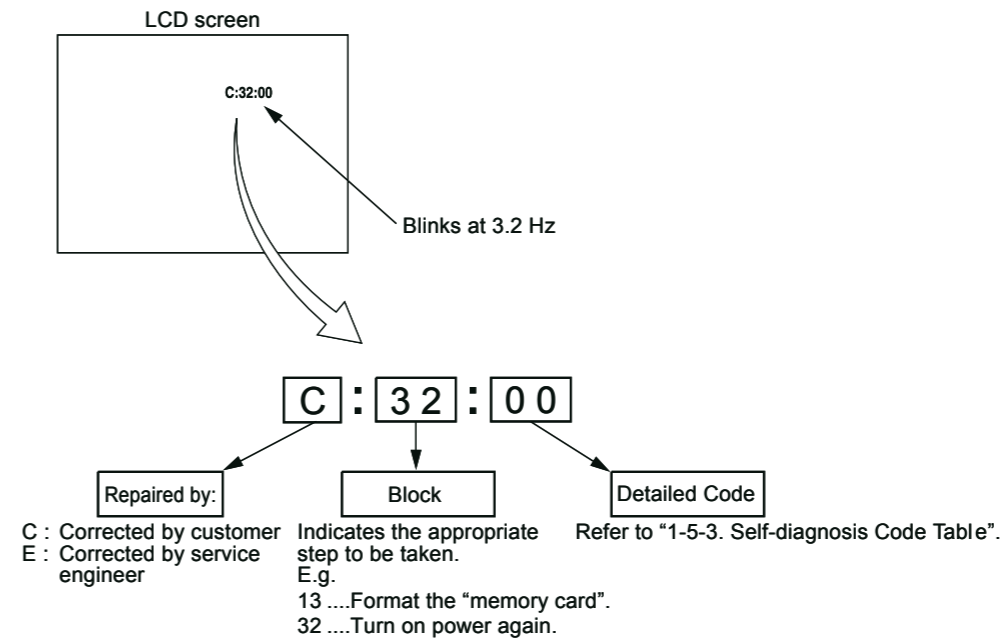
1-5. SELF-DIAGNOSIS FUNCTION

1-5-1. Self-diagnosis Function

When problems occur while the unit is operating, the self-diagnosis function starts working, and displays on the LCD screen what to do. Details of the self-diagnosis functions are provided in the Instruction manual.

1-5-2. Self-diagnosis Display

When problems occur while the unit is operating, the LCD screen shows a 4-digit display consisting of an alphabet and numbers, which blinks at 3.2 Hz. This 5-character display indicates the “repaired by:”, “block” in which the problem occurred, and “detailed code” of the problem.



1-5-3. Self-diagnosis Code Table

| Self-diagnosis Code | | | Symptom/State | Correction |
|---------------------|----------------|---------------|--|---|
| Repaired by: | Block Function | Detailed Code | | |
| C | 1 3 | 0 1 | The internal memory has experienced a media error. | Turn the power off and on again. |
| | | | The internal memory has experienced a format error. | Format the internal memory. |
| | | | Memory card is unformatted. | Format the memory card. |
| | | | Memory card is broken. | Insert a new memory card. |
| | | | Memory card type error | Insert a supported memory card. |
| | | | The camera cannot read or write data on the memory card. | Turn the power off and on again, or taking out and inserting the memory card several times. |
| C | 3 2 | 0 1 | Trouble with hardware | Turn the power off and on again. |
| E | 6 1 | 0 0 | Difficult to adjust focus (Cannot initialize focus) | Retry turn the power on by the power switch. If it does not recover, check the focus reset sensor of lens block (pin ⑳ of CN401 on the SY-275 board). If it is OK, check the focus motor drive IC (IC401 on the SY-275 board). |
| E | 6 1 | 1 0 | Zoom operations fault (Cannot initialize zoom lens.) | Retry turn the power on by the power switch. Check the zoom reset sensor of lens block (pin ㉑ of CN401 on the SY-275 board) when zooming is performed when the zoom button is operated. If it is OK, check the zoom motor drive IC (IC401 on the SY-275 board). |
| E | 6 2 | 0 2 | Abnormality of IC for steadyspot. | Check or replacement of the IC for steadyspot (IC401 on the SY-275 board). |
| E | 6 2 | 1 0 | Lens initializing failure. | Check or replacement of the IC for steadyspot (IC401 on the SY-275 board). |
| E | 6 2 | 2 0 | Abnormality of thermistor. | Check the OIS temp sensor of optical image stabilizer (pin ㉒ of CN401 on the SY-275 board). |
| E | 6 2 | 1 1 | Lens overheating (PITCH). | Check the HALL element (PITCH) of optical image stabilizer (pin ㉓, ㉔ of CN401 on the SY-275 board). If it is OK, check PITCH angular velocity sensor (SE401 on the SY-275 board) peripheral circuits. |
| E | 6 2 | 1 2 | Lens overheating (YAW). | Check the HALL element (YAW) of optical image stabilizer (pin ㉕, ㉖ of CN401 on the SY-275 board). If it is OK, check YAW angular velocity sensor (SE401 on the SY-275 board) peripheral circuits. |
| E | 9 1 | 0 1 | Abnormality when flash is being charged. | Checking of flash unit or replacement of flash unit. (Note) |
| E | 9 4 | 0 0 | Internal memory fault | Inspect the internal memory (IC201 on the SY-275 board). |

Note: After repair, be sure to perform “1-6. PROCESS AFTER FIXING FLASH ERROR”.



1-6. PROCESS AFTER FIXING FLASH ERROR

When “FLASH error” (Self-diagnosis Code E : 91 : 01) occurs, to prevent any abnormal situation caused by high voltage, setting of the flash is changed automatically to disabling charge and flash setting. After fixing, this setting needs to be deactivated. Flash error code can be initialized by the operations on the HOME screen.

Method for Initializing the Flash Error Code

Initialize

Initializes the setting to the default setting. Even if you execute this function, the images are retained.

- MENU →  (Settings) →  (Main Settings) → [Initialize] → [OK] → ●

Note

- Be sure not to turn off the camera while initializing.

1-1. 三脚アダプター使用時の注意

このモデルでは調整を行うために三脚アダプターを使用します。
三脚アダプターを使用する場合は、マルチ端子専用USB・A/Vケーブルを図のように加工してください。



1-2. SY-275基板交換時の注意

仕向けデータ

補修用基板と交換する時、補修用基板に書かれている仕向けデータは元の設定と違っている場合があります。
Adjust StationからAdjust Manualを起動させて「DESTINATION DATA WRITE」を実行させてください。

リストアデータ

補修用基板と交換する時、交換前の基板よりデータを取得してください。
データの取得はAdjust StationからAdjust Manualを起動させて「RESTORE DATA」を実行させてください。
本機で取得されるデータは下記になります。

- USB SERIAL No.
- Angular Velocity Sensor sensitivity adjustment
- AWB standard data input & check, Color reproduction check

Note : 交換前の基板よりデータが読み取れない場合は、SY-275基板とレンズを同時に交換する必要があります。

PMB Portableについて

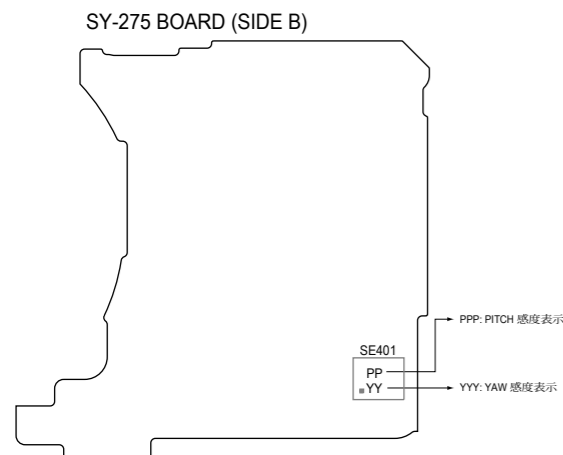
本機の内蔵メモリー内にはPMB Portableが書き込まれています。
補修用SY-275基板は、PMB Portableが書き込まれた状態で供給されます。

USBシリアルNo.

セットは、1台毎に異なる固有のID(USB Serial No.)を書き込んだ後、出荷されています。
新品の補修用基板には、このIDが書き込まれていないので、基板交換後にIDを入力する必要があります。
Adjust StationからAdjust Manualを起動させて「USB SERIAL No. INPUT」を実行させてください。

角速度センサ

補修用基板と交換する時、角速度センサ(SE401)の感度表示を書き留めてください。
Adjust StationからAdjust Manualを起動させて「Angular velocity sensor sensitivity adj.」を実行させてください。



Note : SY-275基板のSE401感度表示は補修用基板にしか記載されておりません。

DSC-W570_L2

1-3. 内蔵メモリーのデータコピーおよび消去方法

内蔵メモリーのデータコピーまたは消去はホーム画面の操作から実行可能です。(消去する場合は内蔵メモリーの初期化を行います。)

Note1 : SY-275基板交換の際は、基板交換前に内蔵メモリーのデータを消去して下さい。

Note2 : SY-275基板交換の際は、基板交換後に内蔵メモリーのフォーマットおよび初期化を実行して下さい。

内蔵メモリーのコピー方法

コピー

内蔵メモリーに記録した画像を、メモリーカードに一括コピーします。

1. 十分な空き容量のあるメモリーカードを本機に入れる
2. MENU → (設定) → (メモリーカードツール) → [コピー] → [OK] → 中央の ●

ご注意

- 十分に充電したバッテリーをご使用ください。残量の少ないバッテリーを使用して画像ファイルをコピーすると、バッテリー切れのためデータを転送できなかったり、データを破損するおそれがあります。
- 画像ごとのコピーはできません。
- データをコピーしても、内蔵メモリー内のデータは削除されません。内蔵メモリーの内容を消去するには、コピー後にメモリーカードを本体から取りはずし、[内蔵メモリーツール]の[フォーマット]を行ってください。
- データをコピーすると、現在の指定している記録フォルダに一番最後のファイル番号でコピーされます。

内蔵メモリー、もしくはメモリーカードのフォーマット方法

フォーマット

メモリーカード、または内蔵メモリーをフォーマット(初期化)します。
メモリーカードの動作を安定させるために、メモリーカードを本機ではじめてお使いになる場合には、まず、本機でフォーマットすることをおすすめします。フォーマットすると、メモリーカードに記録されている全てのデータは消去され、元に戻すことはできません。大切なデータはパソコンなどに保存しておいてください。

1. MENU → (設定) → (メモリーカードツール)、または (内蔵メモリーツール) → [フォーマット] → [OK] → 中央の ●


ご注意

- フォーマットすると、プロテクトしてある画像も含めて、すべてのデータが消去され、元に戻せません。

1-4. 内蔵メモリーヘデータを書き戻す方法

通常は、PCからカメラの内蔵メモリーヘデータを書き込むことはできない設定になっています。基板交換後などに、内蔵メモリーヘデータを書き戻す場合には、この設定を一時的に変更する必要があります。設定の変更は、Adjust StationからAdjust Manualを起動させて書き込み許可ツール(Write Enable Tool)を使用します。

書き戻し方法

- 1) Adjust StationからAdjust Manualを起動する。
- 2)  (Write Enable Tool) ボタンをクリックする。
- 3) “Activate Write Enable Mode” ボタンをクリックする。



- 4) 設定の変更が終了すると、次のメッセージが表示されますので“OK”ボタンをクリックする。



- 5) ドライバを元に戻して、カメラとPCをマスタストレージ接続する。
- 6) PCに読み出しておいたデータをカメラの内蔵メモリーに書き込む。
- 7) カメラとPCの接続を解除し、カメラの電源をOFFにする。

注意：カメラの電源をOFFにすることにより、書き込み許可の設定が解除されます。

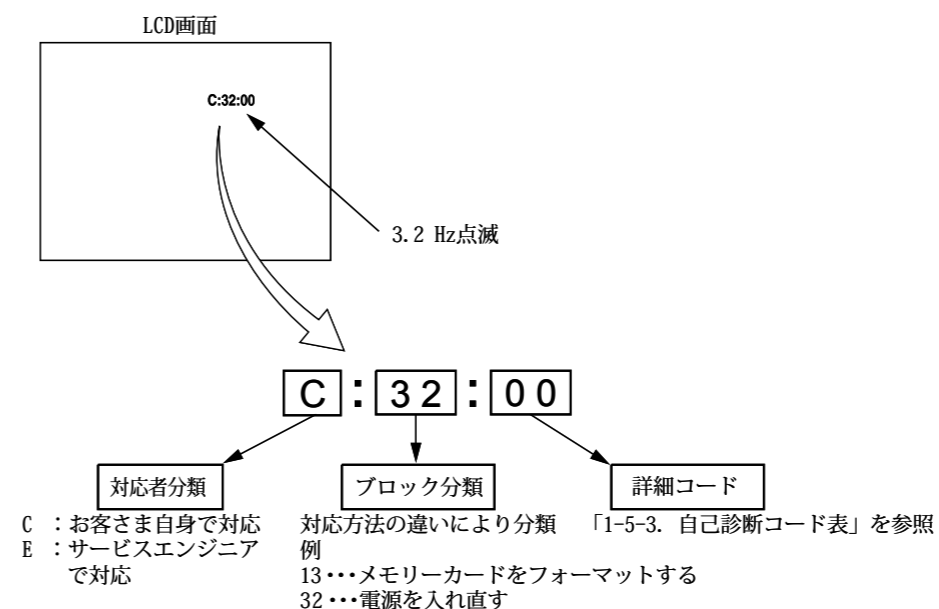
1-5. 自己診断機能

1-5-1. 自己診断機能について

本機の動作に不具合が生じたとき、自己診断機能が働き、LCD画面に、どう処置したらよいか判断できる表示を行います。自己診断機能については取扱説明書にも掲載されています。

1-5-2. 自己診断表示

本機の動作に不具合が生じたとき、LCD画面にアルファベットと4桁の数字が表示され、3.2Hzで点滅します。この5文字の表示によって対応者分類および不具合の生じたブロックの分類、不具合の詳細コードを示します。



1-5-3. 自己診断コード表

| 対応者 | 自己診断コード | | 症状／状態 | 対応／方法 |
|-----|---------|-------|----------------------------------|---|
| | ブロック機能 | 詳細コード | | |
| C | 1 3 | 0 1 | 内蔵メモリーにメディアエラーがあった。 | 電源を入れ直す。 |
| | | | 内蔵メモリーにフォーマットエラーがあった。 | 内蔵メモリーをフォーマットする。 |
| | | | フォーマットしていないメモリーカードを入れた。 | メモリーカードをフォーマットする。 |
| | | | メモリーカードが壊れている。 | 新しいメモリーカードに交換する。 |
| | | | メモリーカードのタイプエラーを検出した。 | 規格内のメモリーカードを挿入する。 |
| | | | メモリーカードが読み／書きできない。 | 電源の入れ直し、またはメモリーカードの挿し／外しを数回試す。 |
| C | 3 2 | 0 1 | ハードウェアトラブルを検出した。 | 電源を入れ直す。 |
| E | 6 1 | 0 0 | フォーカスが合いにくい。 (フォーカスの初期化ができない) | 操作スイッチの電源を入れ直す。 復帰しない場合はレンズブロックのフォーカスリセットセンサ(SY-275基板CN401 ㉔ピン)を点検する。 異常なければフォーカスマーター駆動IC(SY-275基板IC401)を点検する。 |
| E | 6 1 | 1 0 | ズーム動作の異常。 (ズームレンズの初期化ができない) | 操作スイッチの電源を入れ直す。 ズームボタンを操作したときにズーム動作をすればレンズブロックのズームリセットセンサ(SY-275基板CN401 ㉕ピン)を点検する。 異常なければズームモーター駆動IC(SY-275基板IC401)を点検する。 |
| E | 6 2 | 0 2 | 手振れ補正用ICの異常。 | 手振れ補正用IC(SY-275基板IC401)を点検または交換する。 |
| E | 6 2 | 1 0 | 手振れ補正用ICの異常。 (レンズ初期化異常) | 手振れ補正用IC(SY-275基板IC401)を点検または交換する。 |
| E | 6 2 | 2 0 | サーミスタの異常。 | 光学手振れ補正ブロックの温度センサ(SY-275基板CN401 ㉔ピン)を点検する。 |
| E | 6 2 | 1 1 | レンズオーバーヒート(PITCH) | 光学手振れ補正ブロックのホール素子(PITCH)(SY-275基板CN401 ㉑, ㉒ピン)を点検する。 異常なければPITCH角速度センサ(SY-275基板SE401)周辺の回路を点検する。 |
| E | 6 2 | 1 2 | レンズオーバーヒート(YAW) | 光学手振れ補正ブロックのホール素子(YAW)(SY-275基板CN401 ㉓, ㉔ピン)を点検する。 異常なければYAW角速度センサ(SY-275基板SE401)周辺の回路を点検する。 |
| E | 9 1 | 0 1 | フラッシュの充電異常。 | フラッシュユニットを点検または交換する。(Note) |
| E | 9 4 | 0 0 | 内蔵メモリーの書き込み/消去動作不良 | 内蔵メモリー (SY-275基板IC201)を点検する。 |

Note: 交換後は、必ず「1-6. フラッシュエラー発生時の対処法」を行って下さい。



1-6. フラッシュエラー発生時の対処法

本機はフラッシュエラー（自己診断コードE：91：01）が発生した場合、高電圧による異常を防止するために自動的にフラッシュ充電および発光禁止の設定になります。フラッシュエラー発生後はエラーの解除を行う必要があります。エラーの解除はホーム画面から初期化操作を実行することにより行います。

フラッシュエラーの解除方法

設定リセット

お買い上げ時の設定に戻します。
[設定リセット]を実行しても、画像は削除されません。

- MENU →  (設定) →  (本体設定) → [設定リセット] → [OK] → 中央の ●

ご注意

- 設定リセット中は電源が切れないようにご注意ください。

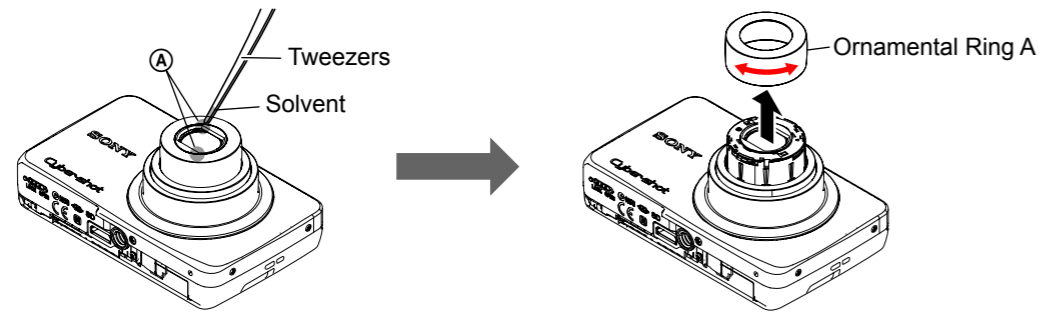
1-7. ORNAMENTAL RING A OR BARRIER ASSY REPLACING METHOD

Removal

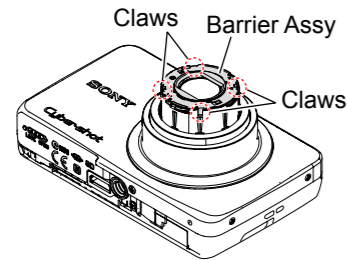
- ① Turn on the power switch and extend the lens (WIDE end).
- ② Detach the battery.
- ③ Apply alcohol to two gaps (A) of the Ornamental Ring A with tweezers or a fine-tipped stick as shown below.
- ④ Turn the Ornamental Ring A clockwise and counterclockwise to detach it.

Note: As for the figure below, this model and the shape of the main body are different.

Note: 下図は当機種と本体の形状が異なります。



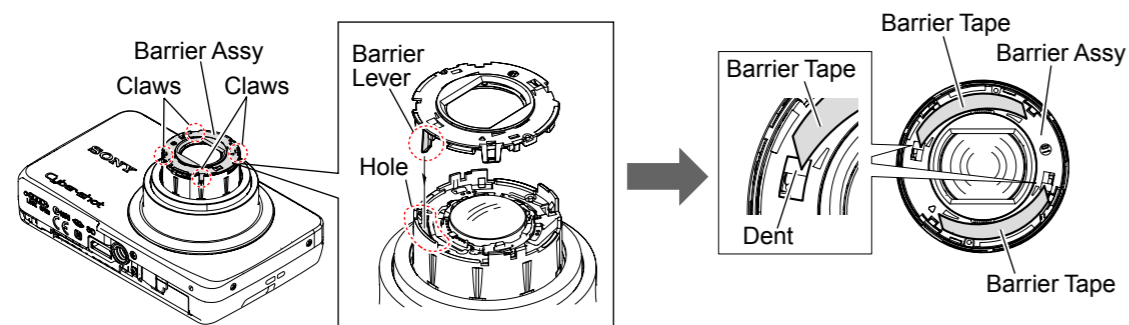
- ⑤ Disengage the four claws and remove the Barrier Assy.



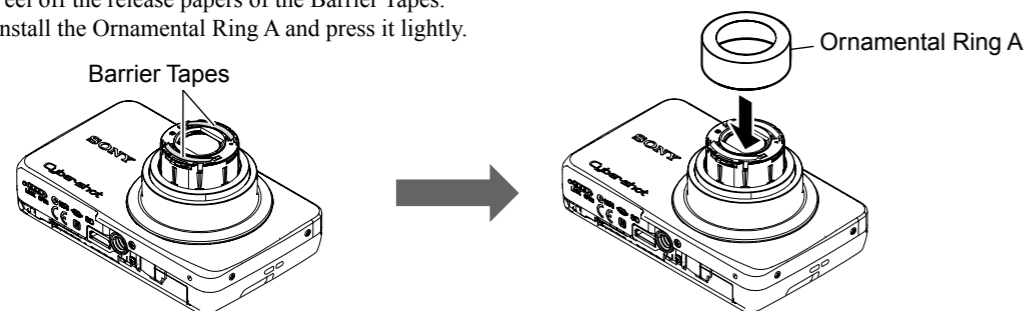
Installation

- ① Fit the four claws while inserting the Barrier Lever into the hole and attach the Barrier Assy.
- ② Affix two Barrier Tapes to the Barrier Assy so that the end of each Barrier Tape touches the dent.

Note: The Barrier Tapes must not be wrinkled.



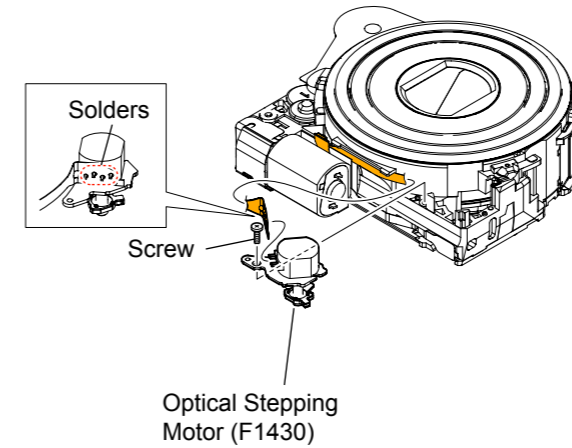
- ③ Peel off the release papers of the Barrier Tapes.
- ④ Install the Ornamental Ring A and press it lightly.



1-8. OPTICAL STEPPING MOTOR (F1430) REPLACING METHOD

Removal

- ① Remove the screw.
- ② Unsolder the four locations of the Optical Stepping Motor (F1430) to detach it.



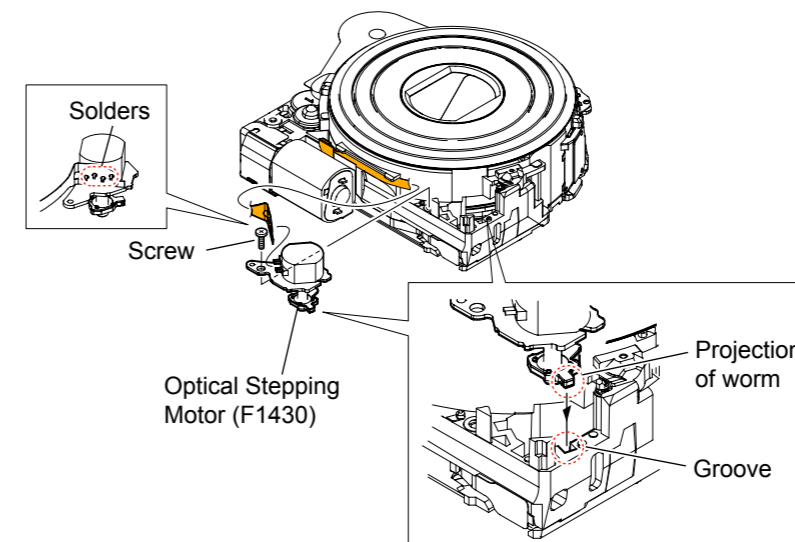
Install

- ① Solder the four locations of the Optical Stepping Motor (F1430).
- ② Install the Optical Stepping Motor (F1430) with a screw.

*Tightening torque = $0.0xx \pm 0.0xN \cdot m$ ($0.x \pm 0.xkgf \cdot cm$)

Note:

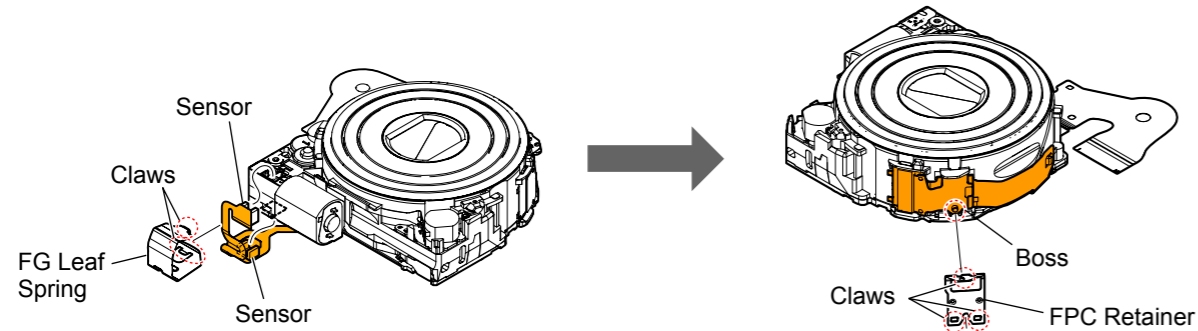
Install the Optical Stepping Motor (F1430) while fitting the groove with the projection of worm.



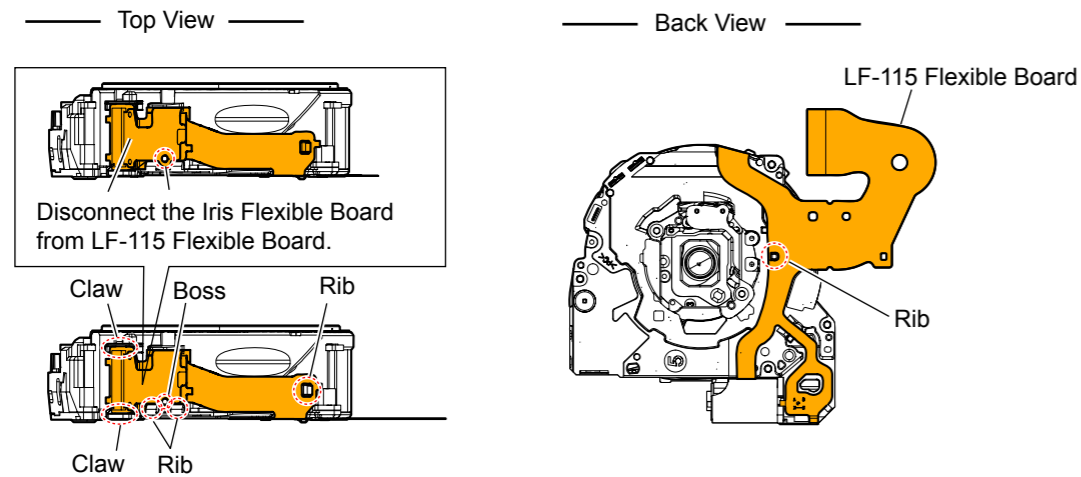
1-9. DC MOTOR WORM (A) BLOCK ASSY REPLACING METHOD

Removal

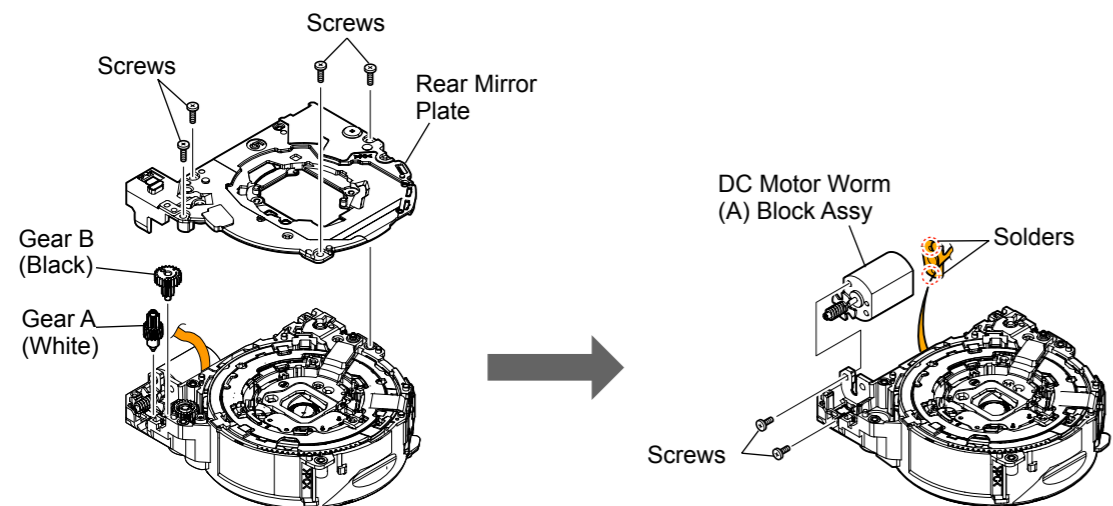
- ① Disengage the two claws and remove the FG Leaf Spring.
- ② Remove the two Sensors.
- ③ Disengage the three claws and remove the FPC Retainer.



- ③ Remove the LF-115 Flexible Board.

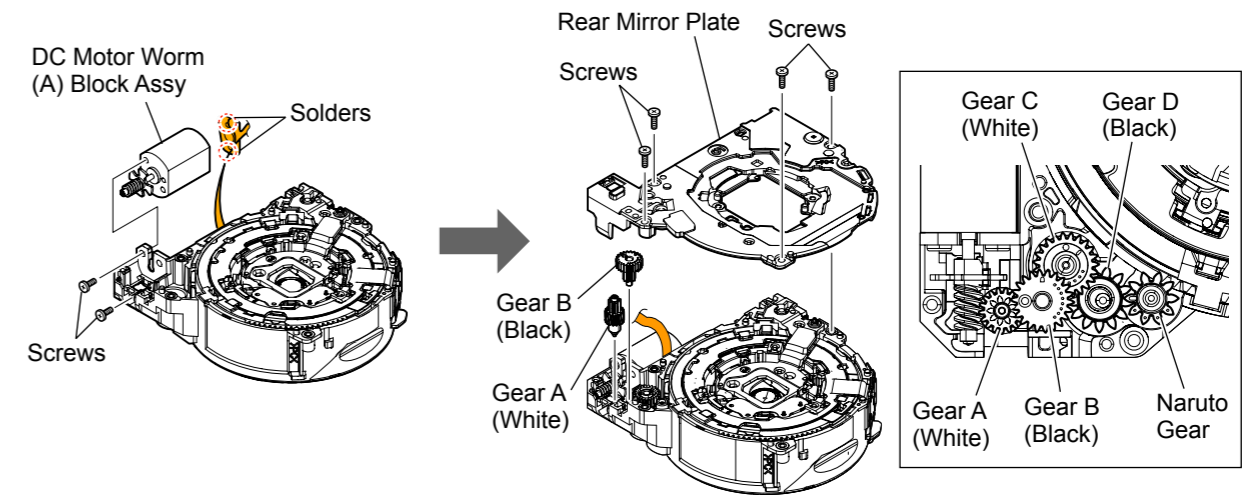


- ④ Remove the Rear Mirror Plate.
- ⑤ Remove the Gear B (Black) and the Gear A (White).
- ⑥ Remove the two screws, and remove soldering from the two points, and then remove the DC Motor (A) Block Assy.

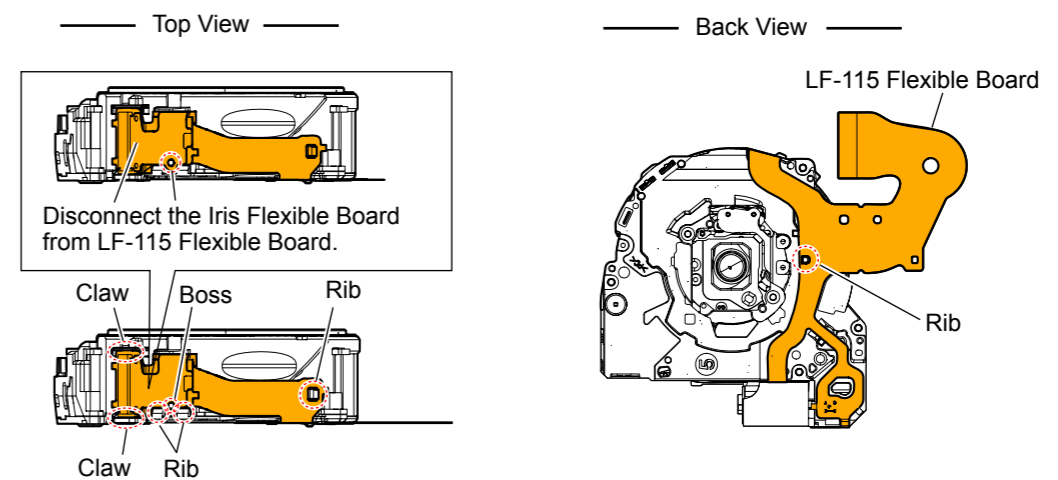


Installation

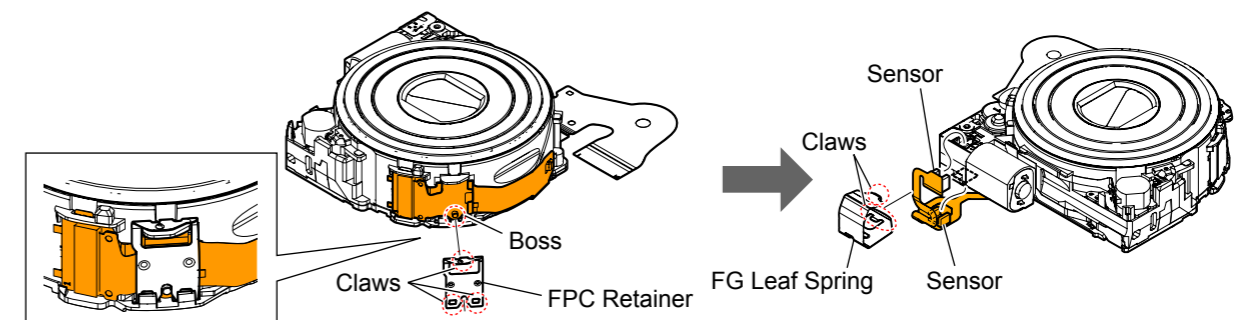
- ① Solder the two locations.
- ② Install the DC Motor Worm (A) Block Assy and secure it with two screws.
*Tightening torque = $0.0xx \pm 0.0xN \cdot m$ ($0.x \pm 0.xkgf \cdot cm$)
- ③ Install the Gear B (Black) and the Gear A (White).
- ④ Install the Rear Mirror Plate and secure it with two screws.
*Tightening torque = $0.0xx \pm 0.0xN \cdot m$ ($0.x \pm 0.xkgf \cdot cm$)



- ⑤ Install the LF-115 Flexible Board.



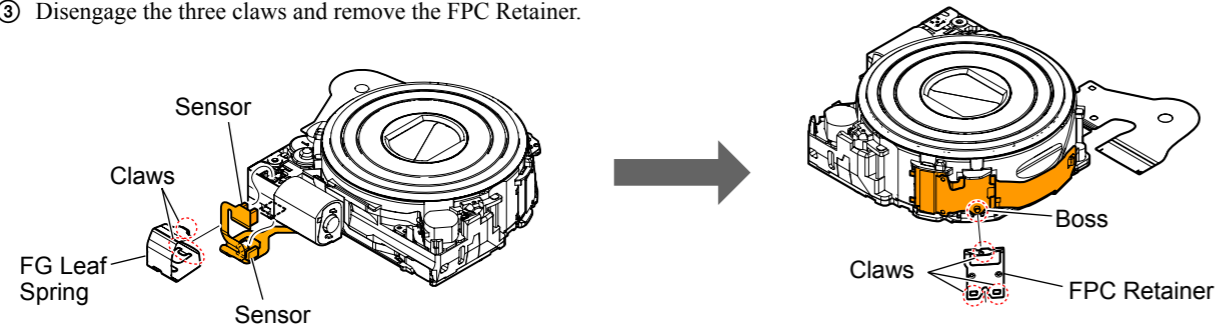
- ⑥ Install the FPC Retainer while fitting the three claws and the boss.
- ⑦ Install the two Sensors
- ⑧ Install the FG Leaf Spring while fitting the two claws..



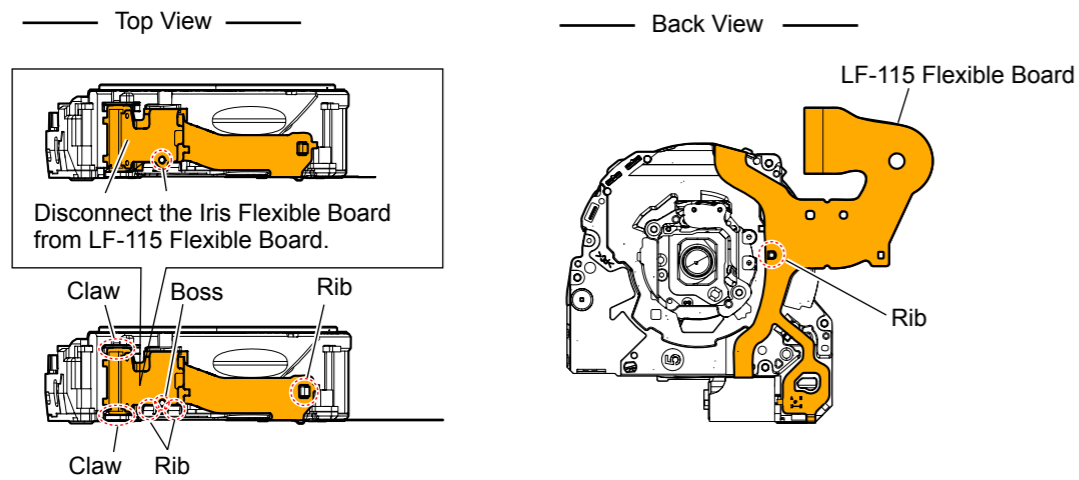
1-10. TWO TUBE LUBRICATING BLOCK ASSY AND GROUP 1 FRAME REPLACING METHOD

Removal

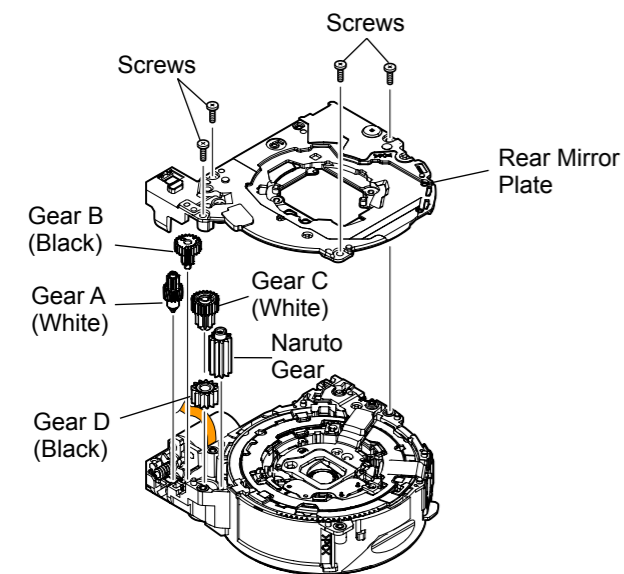
- ① Disengage the two claws and remove the FG Leaf Spring.
- ② Remove the two Sensors.
- ③ Disengage the three claws and remove the FPC Retainer.



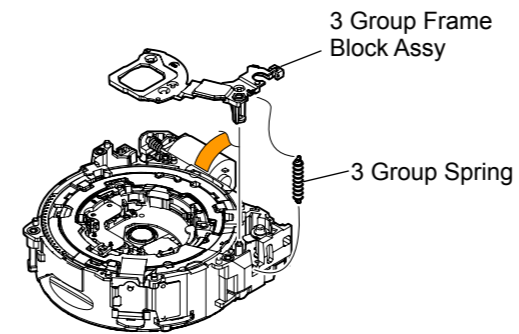
- ④ Remove the LF-115 Flexible Board.



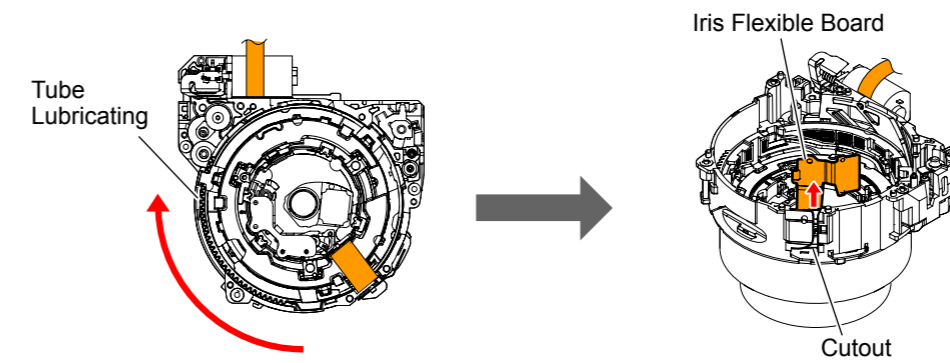
- ⑤ Remove the four screws to detach the Rear Mirror Plate
- ⑥ Remove the Gear B (Black), Gear A (White), Gear C (White), Gear D (Black), and Naruto Gear.



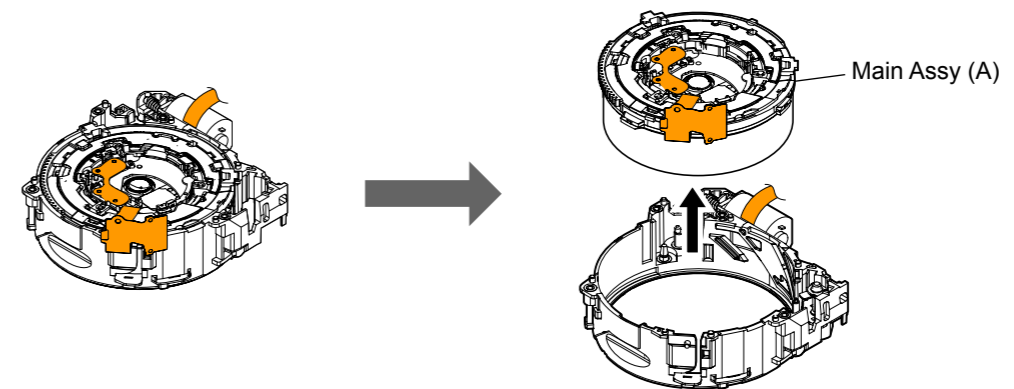
- ⑦ Remove the 3 Group spring and remove the 3 Group Frame Block Assy.



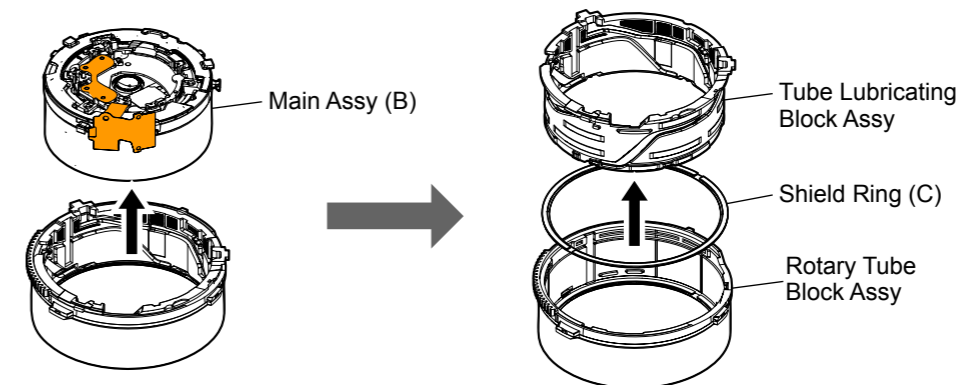
- ⑧ Turn the Tube Lubricating to the TELE state and remove the Iris Flexible Board from the cutout.



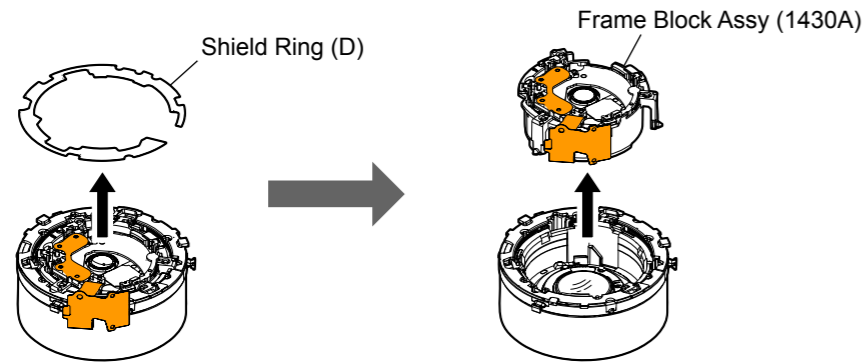
- ⑨ Remove the Main Assy (A) in the WIDE state.



- ⑩ Remove the Main Assy (B).
- ⑪ Remove the Tube Lubricating Block Assy and the Shield Ring (C) from the Rotary Tube Block Assy.

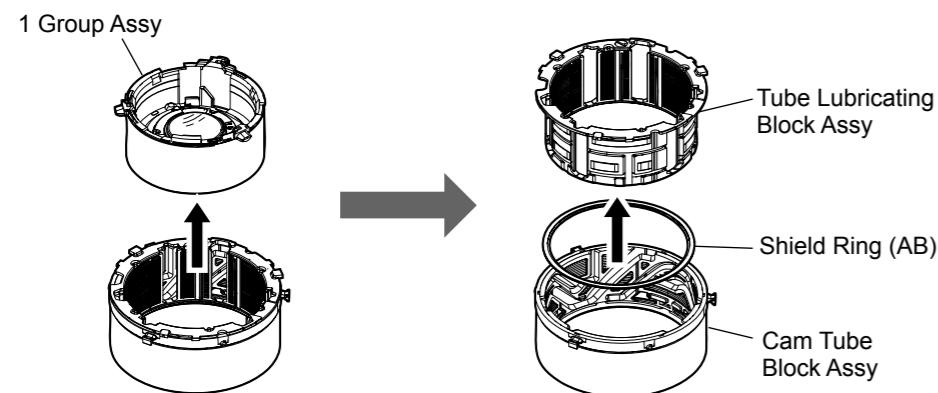


⑫ Remove the Shield Ring (D) and remove the Frame Block Assy (1430A).



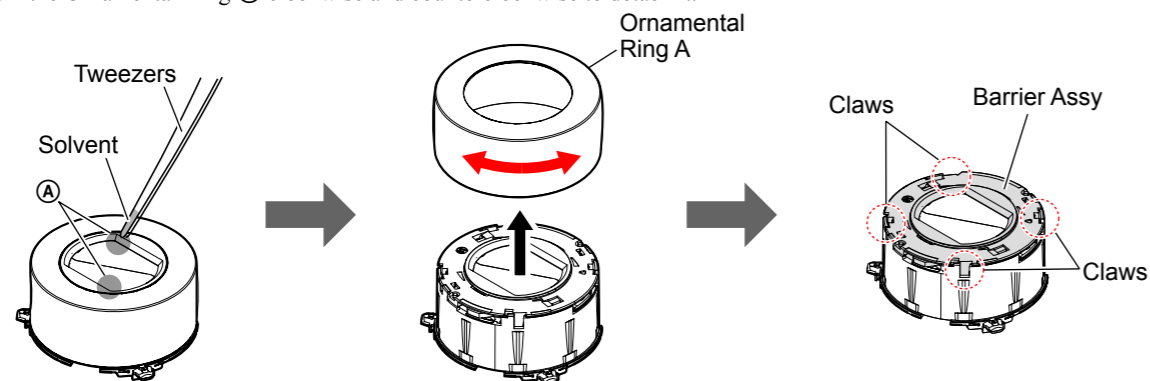
⑬ Remove the 1 Group Assy.

⑭ Remove the Tube Lubricating Block Assy and the Shield Ring (AB) from the Cam Tube Block Assy.



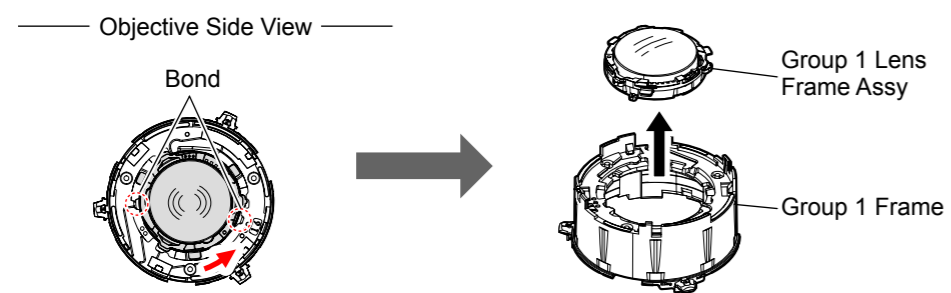
⑮ Apply alcohol to two gaps A of the Ornamental Ring A with tweezers or a fine-tipped stick as shown below.

⑯ Turn the Ornamental Ring A clockwise and counterclockwise to detach it.



⑰ Remove bond at two locations shown in the figure below and turn the Group 1 Lens Frame Assy.

⑱ Remove the Group 1 Lens Frame Assy from the Group 1 Frame.



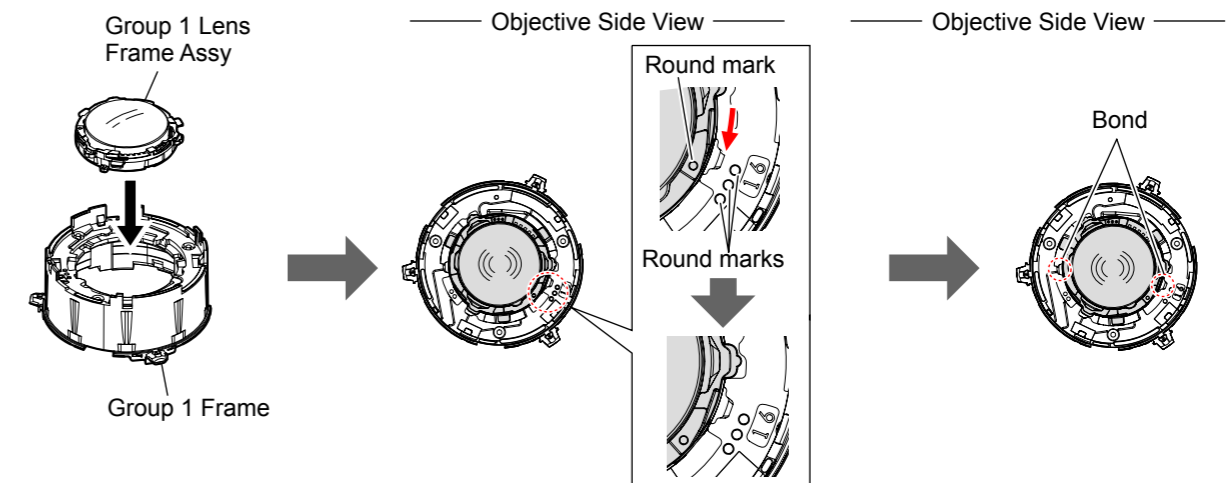
Installation

① Install the Group 1 Lens Frame Assy to the Group 1 Frame.

② Turn the Group 1 Lens Frame Assy so that the round mark comes to the position shown in the figure below.

③ Apply bond to the two points shown in the figure below.

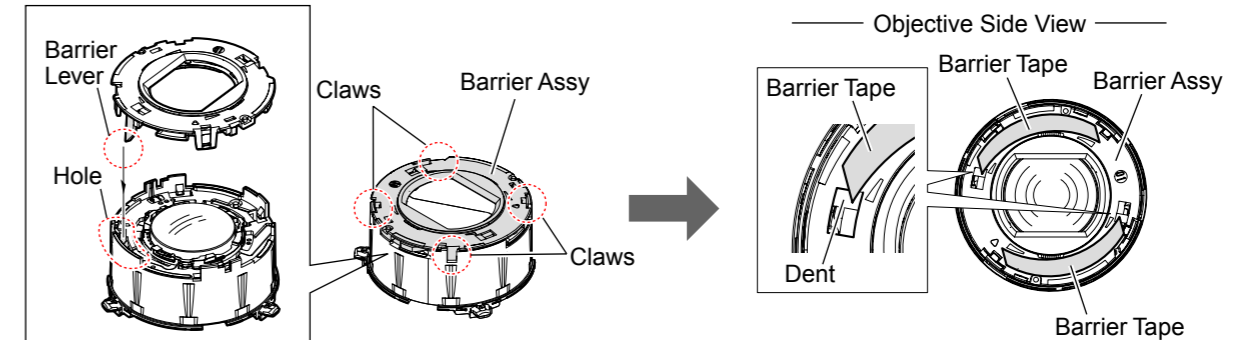
Note: Use Super X bond or equivalent.



④ Fit the four claws while inserting the Barrier Lever into the hole and attach the Barrier Assy.

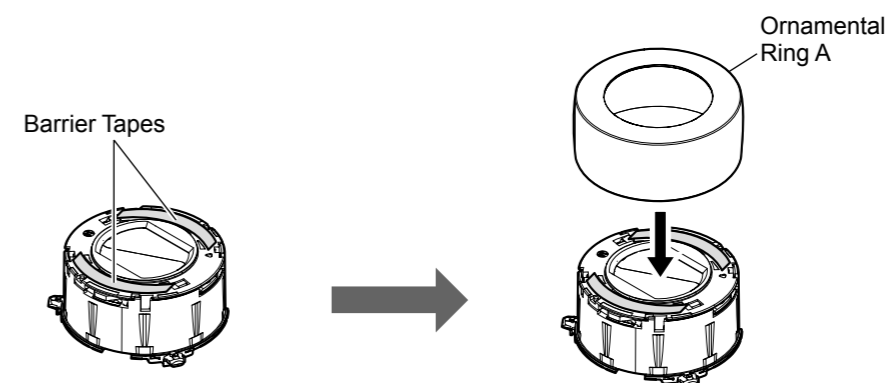
⑤ Affix two Barrier Tapes to the Barrier Assy so that the end of each Barrier Tape touches the dent.

Note: The Barrier Tapes must not be wrinkled.

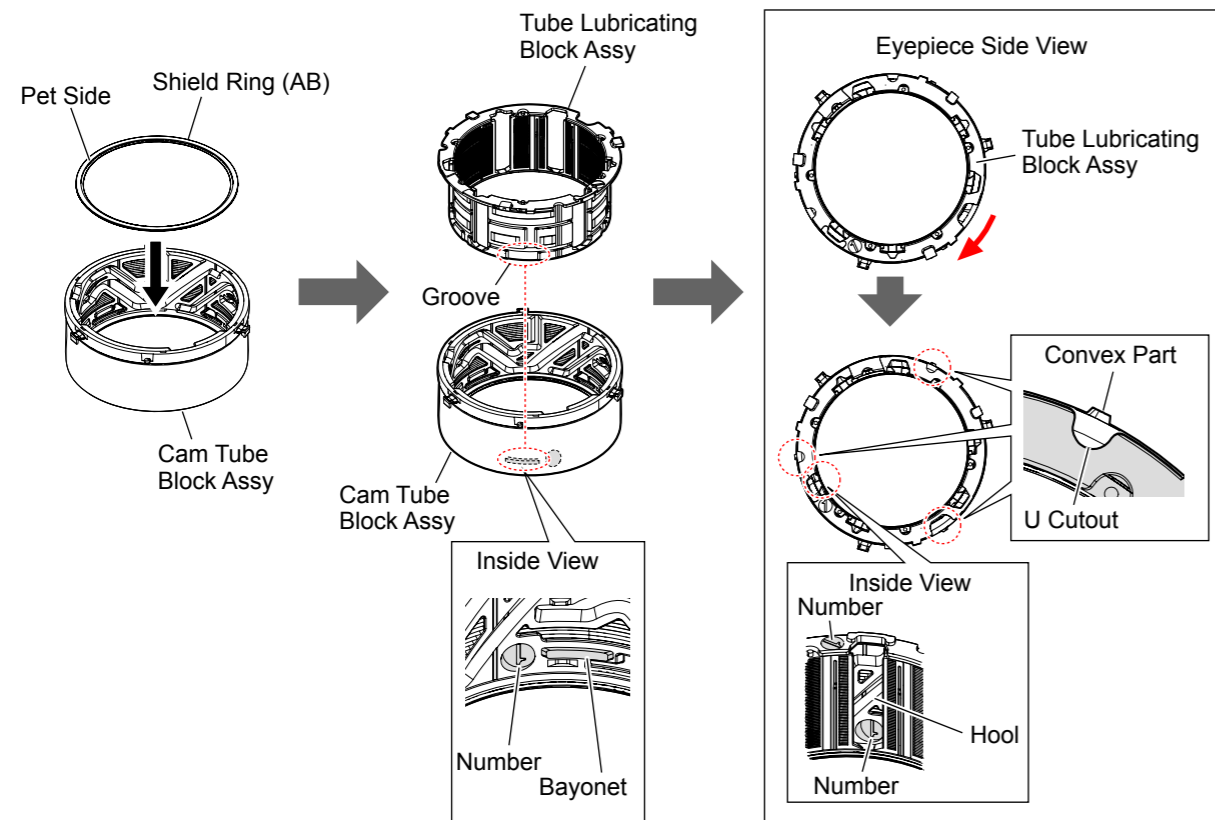


⑥ Peel off the release papers of the Barrier Tapes.

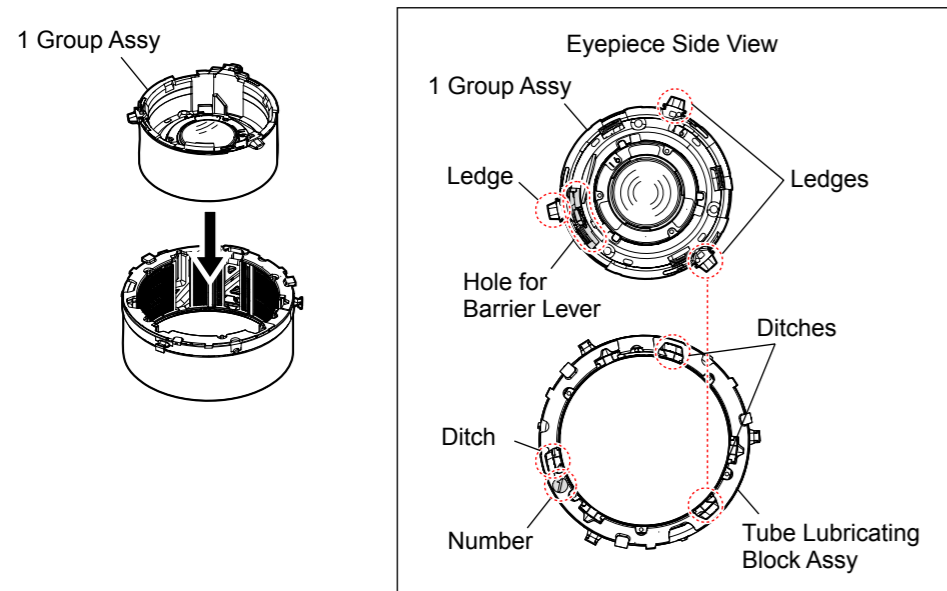
⑦ Install the Ornamental Ring A and press it lightly.



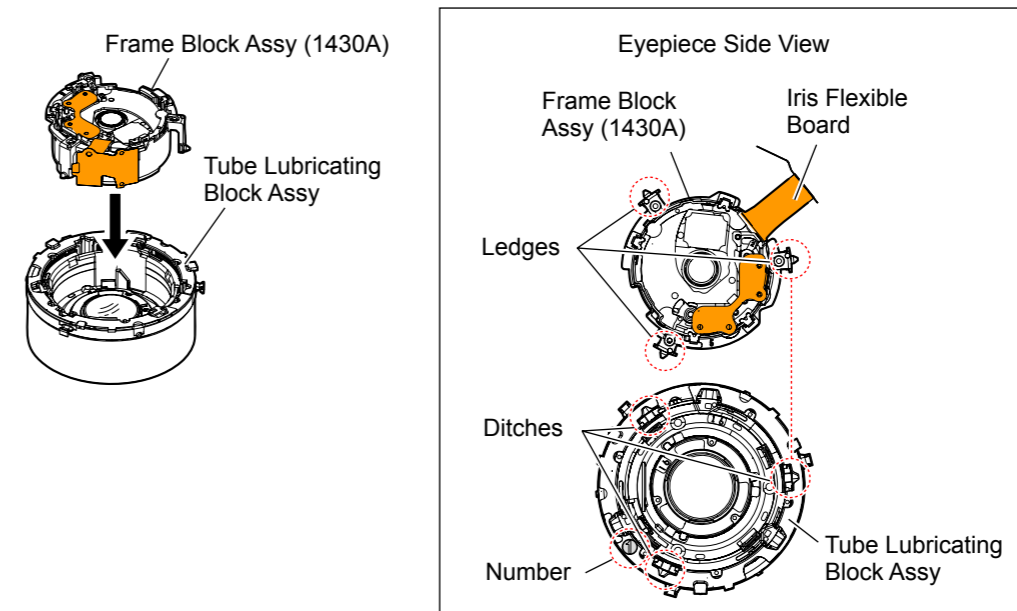
- ⑧ Put down the Shield Ring (AB) into the Cam Tube Block Assy.
Note: Put down the Shield Ring (AB) so that the pet side comes to the Eyepiece side.
- ⑨ Install the Tube Lubricating Block Assy while aligning the bayonet beside the number inside the Cam Tube Block Assy with the groove of the Tube Lubricating Block Assy.
- ⑩ Turn the Tube Lubricating Block Assy to align the U cutout and the convex part of the Tube Lubricating Block Assy.
Note: Make sure that the number on the Tube Lubricating Block Assy and the number on the Cam Tube Block Assy come to the positions shown in the figure below.



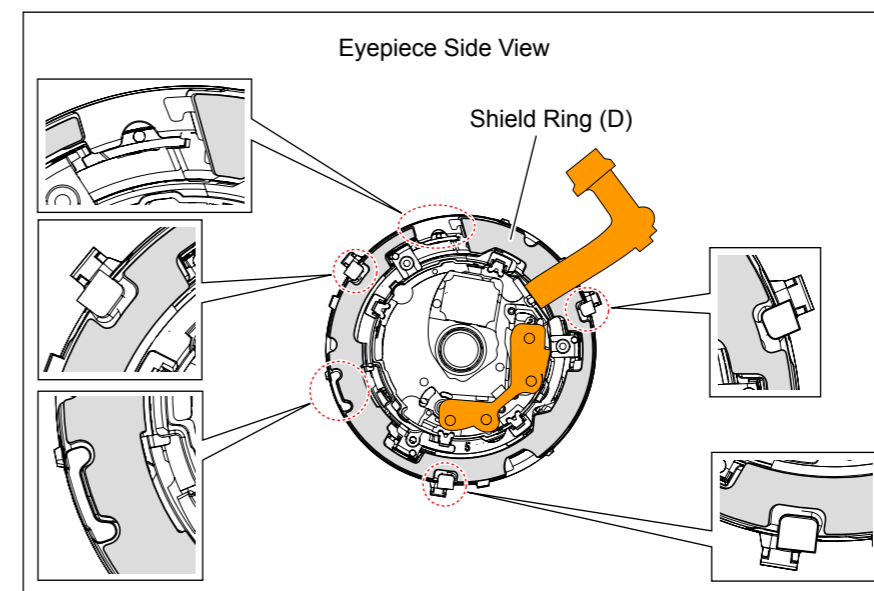
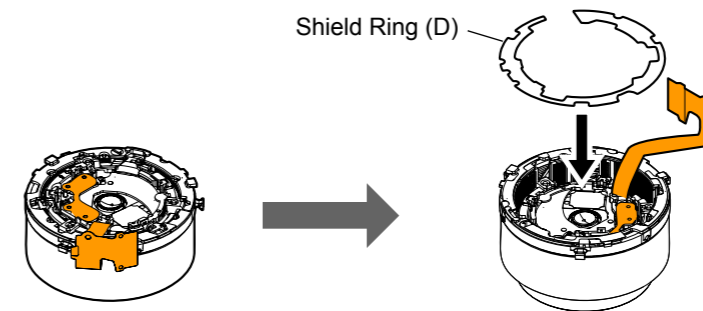
- ⑪ Set the Hole for Barrier Lever on the 1 Group Assy and the number on the Tube Lubricating Block Assy to the positions shown in the figure below, and then install the 1 Group Assy while inserting the three ledges of the 1 Group Assy into the three ditches of the Tube Lubricating Block Assy.



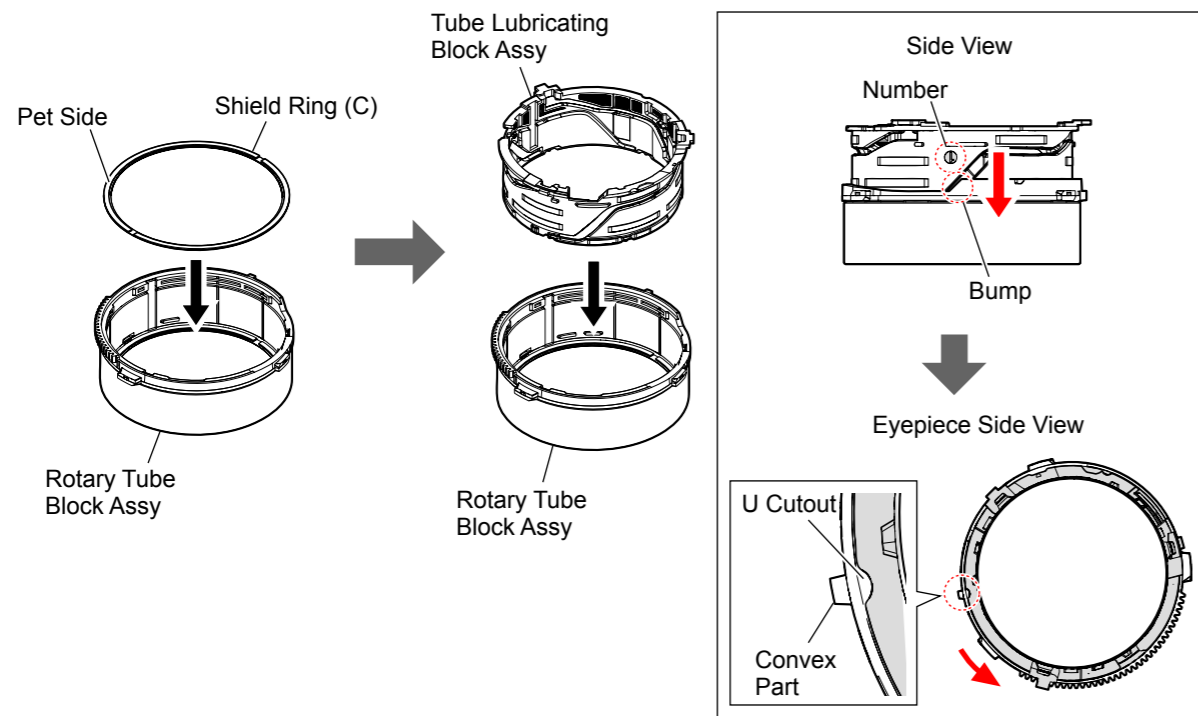
- ⑫ Align the end of the Iris Flexible Board with the number on the Tube Lubricating Block Assy, and then install the Frame Block Assy (1430A) while inserting the three ledges of the Frame Block Assy (1430A) into the three ditches of the Tube Lubricating Block Assy.



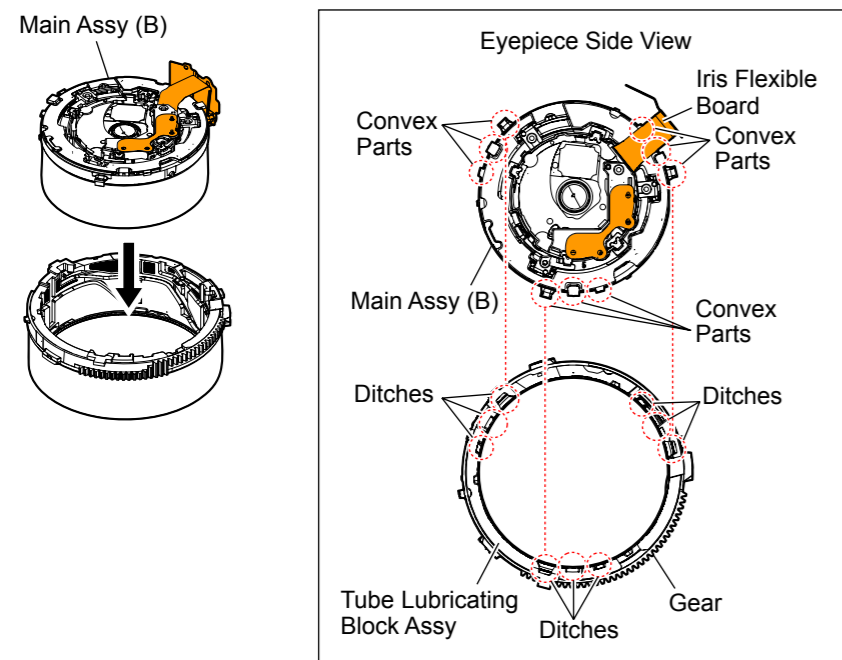
- ⑬ Set the lens to the TELE state and then affix the Shield Ring (D).
Note: Affix the Shield Ring (D) with equal gap without overlapping with molded parts.



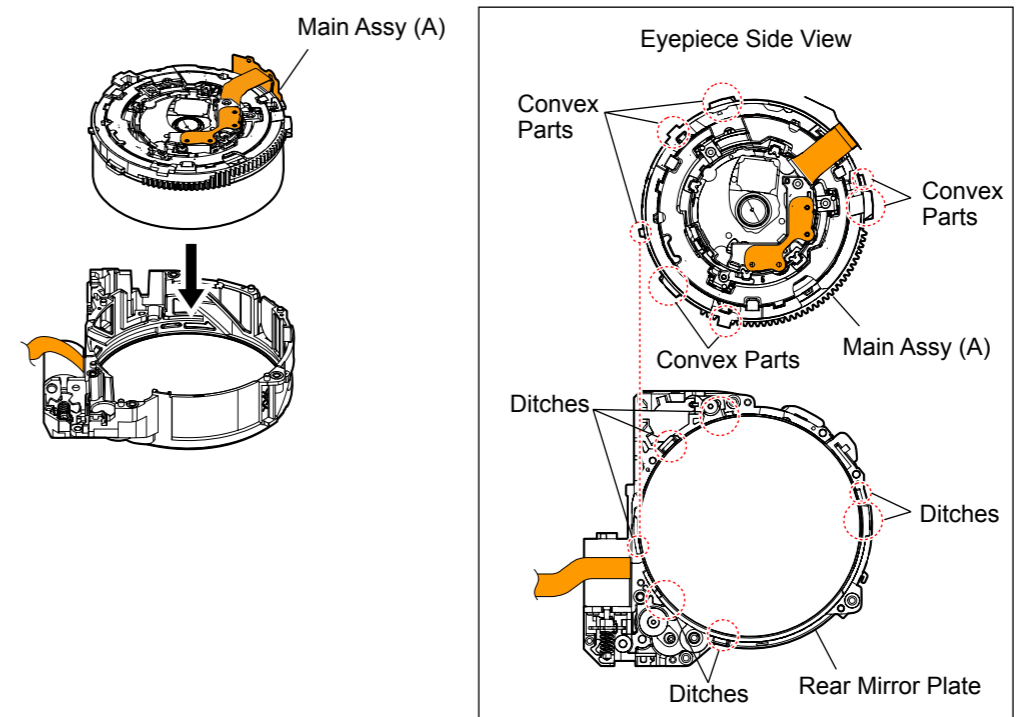
- ⑭ Put down the Shield Ring (C) into the Rotary Tube Block Assy.
Note: Put down the Shield Ring (C) so that the pet side comes to the Eyepiece side.
- ⑮ Install the Tube Lubricating Block Assy while aligning the number on the Tube Lubricating Block Assy with the bump on the Rotary Tube Block Assy
- ⑯ Turn the Tube Lubricating Block Assy to align the U cutout and the convex part of the Tube Lubricating Block Assy..



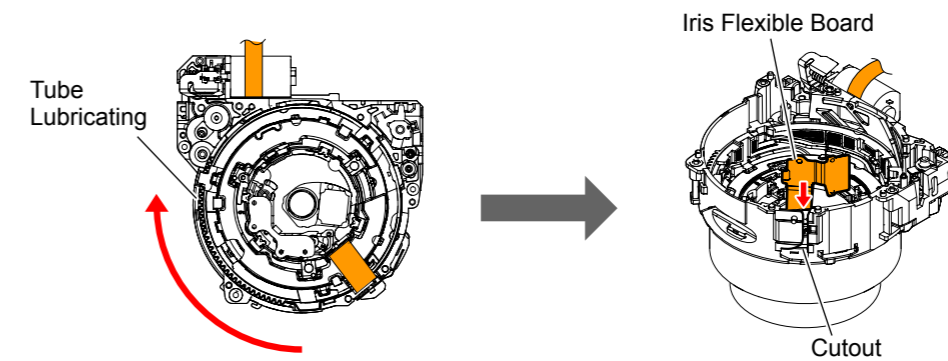
- ⑰ Align the end of the Iris Flexible Board with the gear of the Rotary Tube Block Assy as shown in the figure below, and then install the Main Assy (B) while inserting the nine convex parts of the Main Assy (B) into the nine ditches of the Tube Lubricating Block Assy.



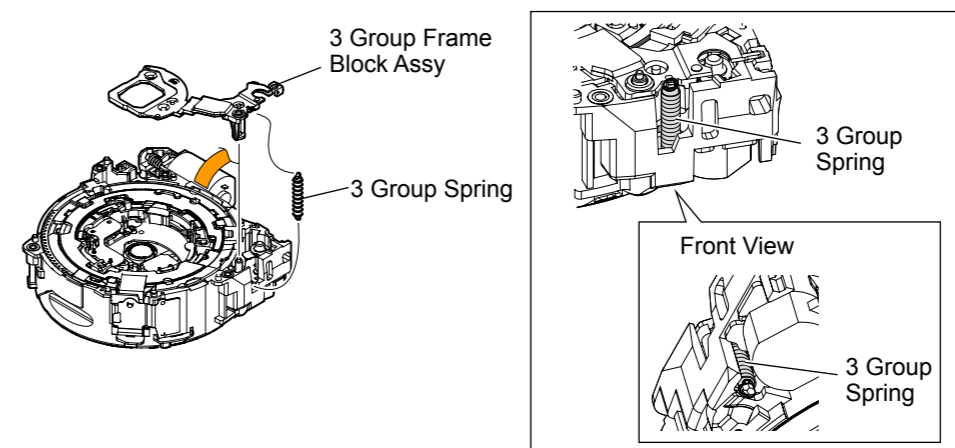
- ⑱ Install the Main Assy (A) while inserting the seven convex parts of the Main Assy (A) into the seven ditch of the Rear Mirror Plate.



- ⑲ Turn the Tube Lubricating to the TELE state and insert the Iris Flexible Board into the cutout.

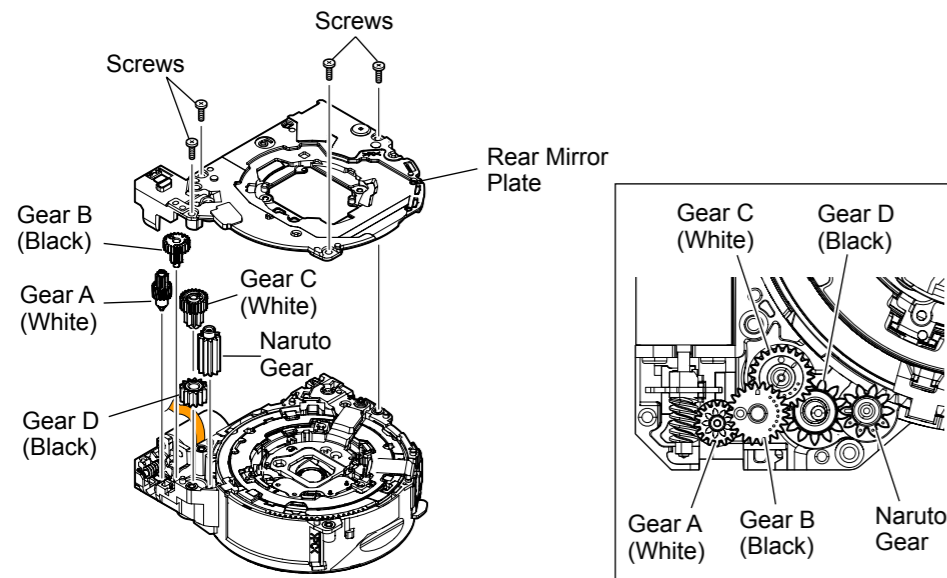


- ⑳ Install the 3 Group Frame Block Assy and then install the 3 Group spring.

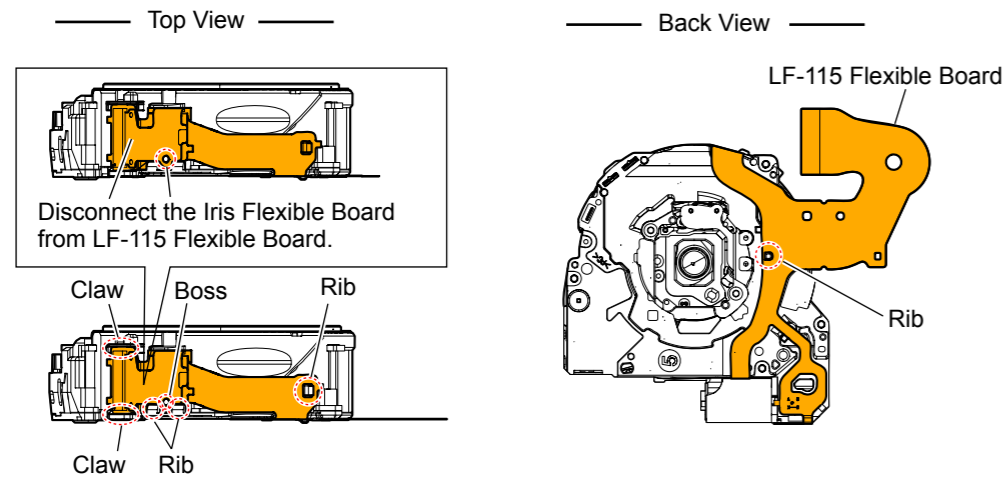


- ⑳ Install the Gear B (Black), Gear A (White), Gear C (White), Gear D (Black), and Naruto Gear.
- ㉑ Install the Rear Mirror Plate and secure it with four screws.

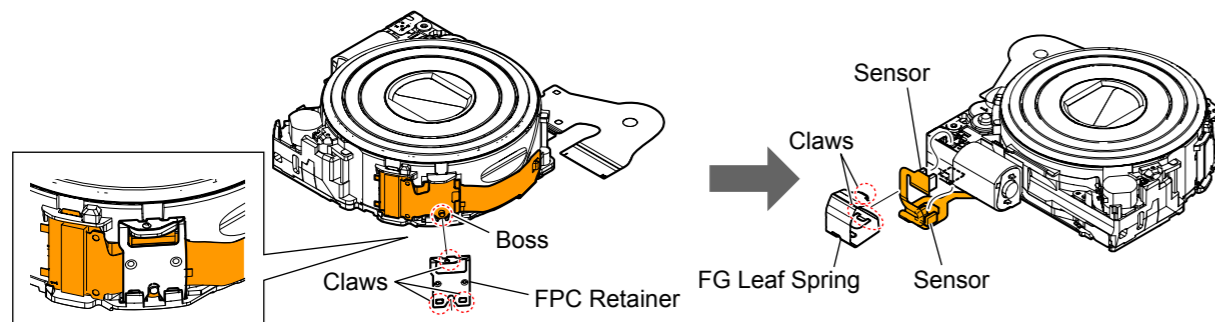
*Tightening torque = 0.0xx ± 0.0xN • m (0.x ± 0.xkgf • cm)



- ㉒ Install the LF-115 Flexible Board.



- ㉓ Install the FPC Retainer while fitting the three claws and the boss.
- ㉔ Install the two Sensors.
- ㉕ Install the FG Leaf Spring while fitting the two claws.



1-11. FINAL INSPECTION

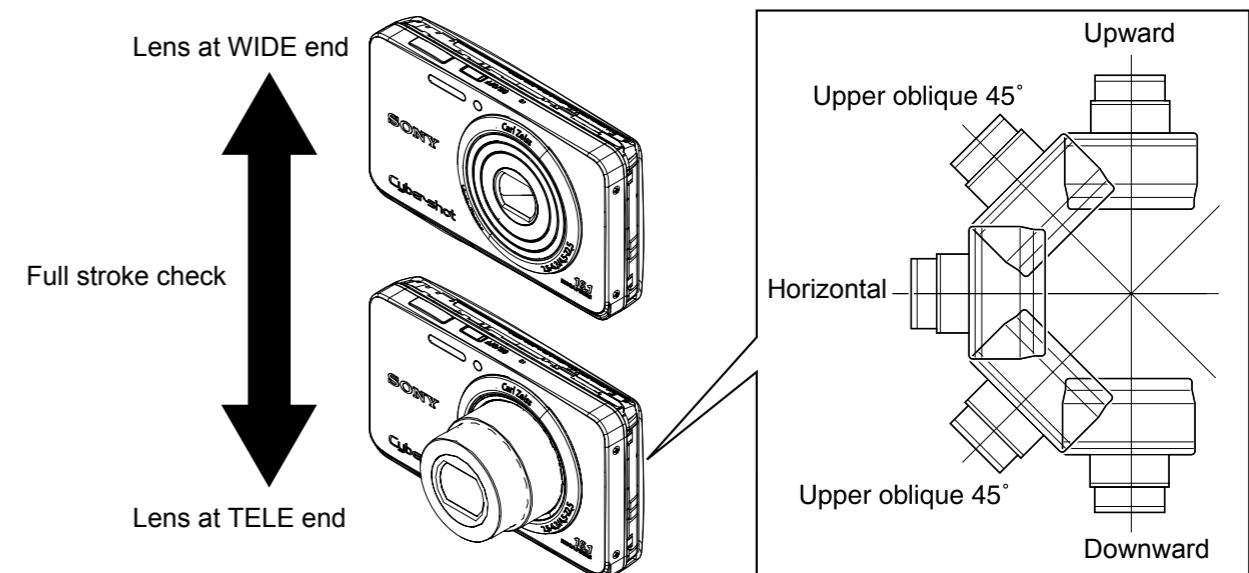
1-11-1. Confirm There Is No Fault In Actual Motion/Actual Screen

Inspect it as follows when you exchange parts in the lens block.

- ① Zoom motion (Check five postures: horizontal, upward/downward, upper/lower oblique 45°)
No abnormal sound or motion must be found over full stroke between TELE end and WIDE end.
- ② Zoom image
No abnormality such as a skipped image or wavy image must be found in the image through LCD or finder over full stroke between TELE end and WIDE end.
- ③ Barrier (Check five postures: horizontal, upward/downward, upper/lower oblique 45°)
The barrier must be opened and closed fully, free from a sticking in the midway.
No abnormal sound must be heard during the operation.
- ④ Appearance condition Scratches or stains must not be noticeable, except that the customer permits them.
- ⑤ Foreign matters on the lens The lens condition must not be worse than that when the camera was received from the customer.

Note: As for the figure below, this model and the shape of the main body are different.

Note: 下図は当機種と本体の形状が異なります。



1-11-2. Inspection When Cam Tube Block Assy Or Straight Tube Lubricated Assy Is Replaced

Focus check

① Preparation

- Camera installed re-assemble lens.
- Chart (Printed PDF file at the same magnification) (Refer to <Reference>)
- Tripod
- Mirror (ex. CD)
- Memory card
- PC

② Shoot setting

(1) Paste the chart.

- Chart should be on the flat wall.
- Illuminance level in the chart should be the same.
- Make the tripod's height and the center of the chart to the same height.
- Enough space needed for shooting.

(2) Set the camera.

- Set [P] mode
- Set [Maximum] size
- Set ISO lowest level
- Set Steady Shot [OFF]
- Set Flash [OFF]

(3) Set the camera on a tripod.

(4) Adjust the position of the camera and the chart.

1. Set the zoom position of the camera at Wide end.
2. Attach the mirror onto the center of the chart.
 - * The mirror should not tilt on the chart.
3. Set the camera to display the chart on LCD like in the following picture.
4. Adjust the camera position to the center of the chart.
 - * Adjust the tripod height and the position (Lateral direction).
5. Adjust the camera angle to the frame of the chart with tripod.
 - Remove the mirror.

③ Shooting

(1) Set [Self-Timer]

(2) Shot

④ Check the shot image.

(1) Check the shot image on PC.

100% Display (Display at the same magnification of its Pixel.)

Compare the image with the sample you set.

No extreme focus blurring

It should be distinguished the black and white by the sharpness between them.

If it is in NG level, replace the lens unit.

<Reference>

• How to Print the Chart

Print "Forcus-Chart_A3.pdf" with printer.

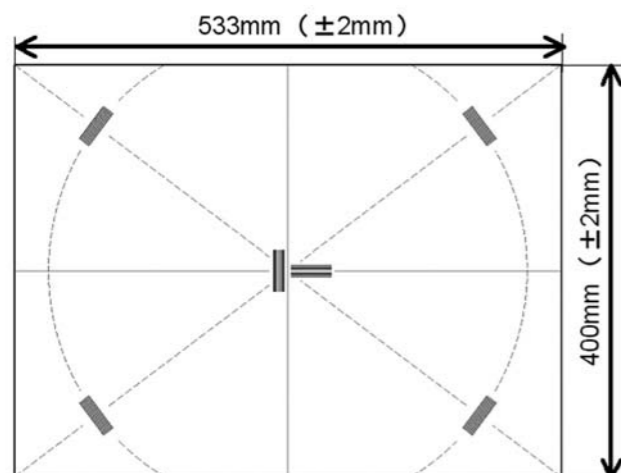
Print at the same magnification (It means 100 % size).

Check the settings of printer to print in proper size.

• Check of chart size.

Make charts together and check if the size of charts is the following size.

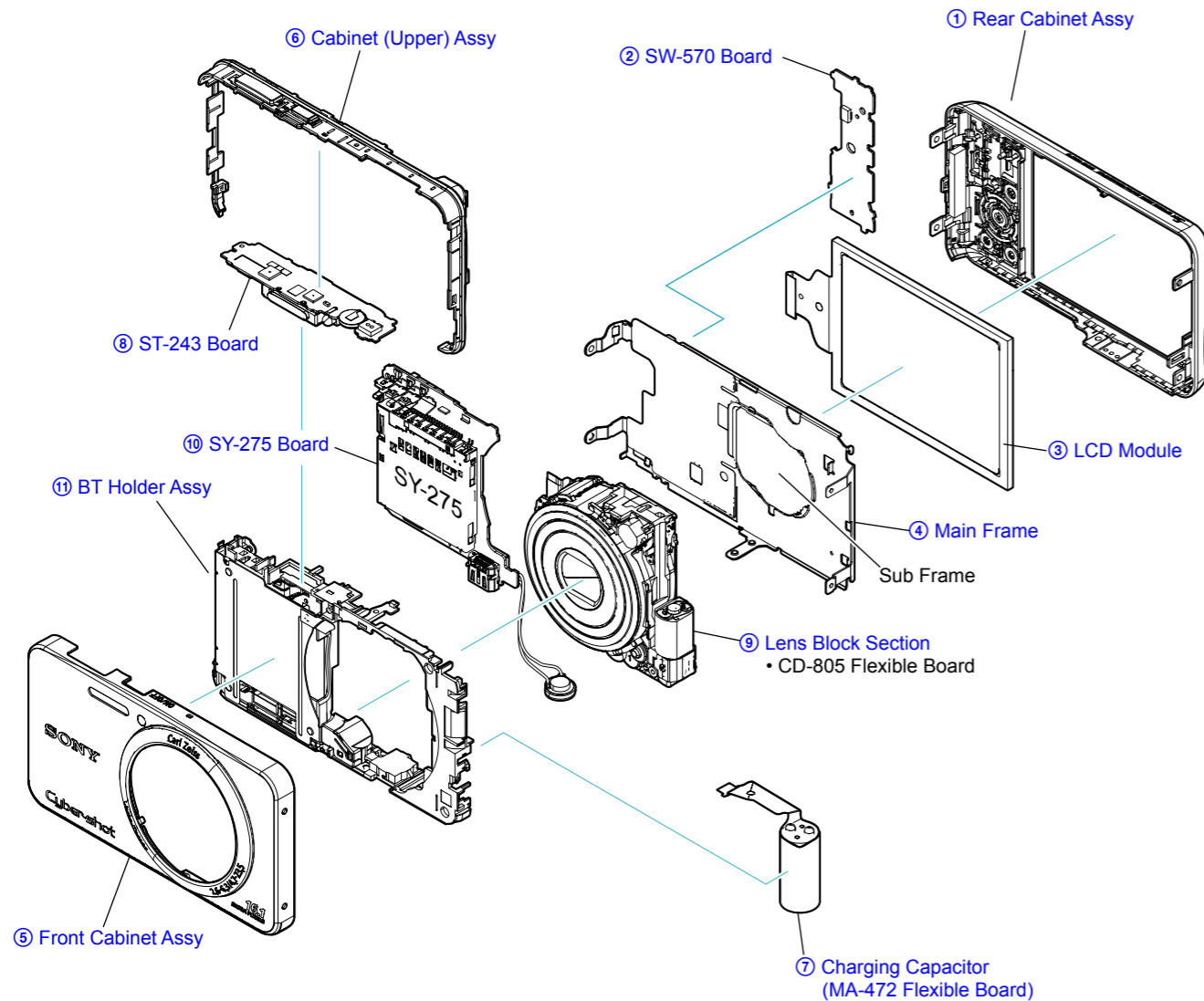
* The chart consists of 2 pcs.



2. REPAIR PARTS LIST

IDENTIFYING PARTS

Follow the disassembly in the numerical order given.



(ENGLISH)

NOTE:

- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- CAPACITORS:
uF: μ F
- COILS
uH: μ H
- RESISTORS
All resistors are in ohms.
METAL: metal-film resistor
METAL OXIDE: Metal Oxide-film resistor
F: nonflammable
- SEMICONDUCTORS
In each case, u: μ , for example:
uA...: μ A..., uPA..., μ PA...,
uPB..., μ PB..., μ PC..., μ PC...,
uPD..., μ PD...

(JAPANESE)

【使用上の注意】

- ここに記載されている部品は、補修用部品であるため、回路図及びセットに付いている部品と異なる場合があります。
- -XX, -Xは標準化部品のため、セットに付いている部品と異なる場合があります。
- *印の部品は常備在庫しておりません。
- コンデンサの単位でuFは μ Fを示します。
- 抵抗の単位 Ω は省略してあります。
- 金 被：金属被膜抵抗。
- サンキン：酸化金属被膜抵抗。
- インダクタの単位でuHは μ Hを示します。
- 半導体の名称でuA..., uPA..., uPB..., uPC..., uPD...等はそれぞれA..., μ PA..., μ PB..., μ PC..., μ PD...を示します。

The components identified by mark Δ or dotted line with mark Δ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque Δ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

- Color Indication of Appearance Parts
Example:
(SILVER): Cabinet's Color
(Silver) : Parts Color

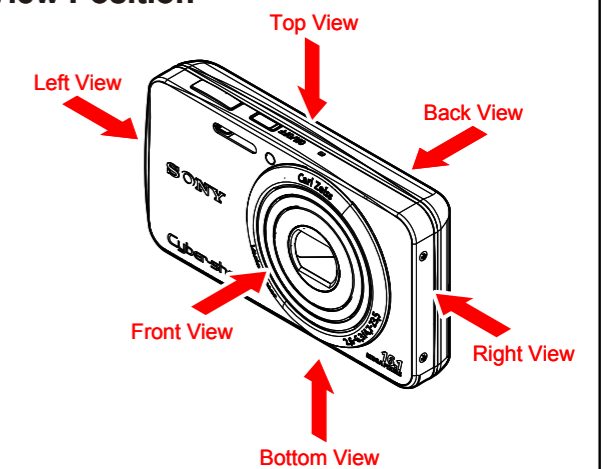
Δ 印の部品、または Δ 印付の点線で囲まれた部品は、安全性を維持するために、重要な部品です。
従って交換時は、必ず指定の部品を使用してください。

- 外装部品色表示
例：
(SILVER)：セットの色を表す。
(Silver)：部品の色を表す。

Abbreviation

- AR : Argentine model
- AUS : Australian model
- BR : Brazilian model
- CH : Chinese model
- CND : Canadian model
- HK : Hong Kong model
- J : Japanese model
- JE : Tourist model
- KR : Korea model

View Position



Link

DISCHARGING OF THE CHARGING CAPACITOR

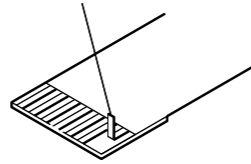
ACCESSORIES

ASSEMBLY

NOTE FOR REPAIR

- Make sure that the flat cable and flexible board are not cracked or bent at the terminal.
Do not insert the cable insufficiently nor crookedly.
- When remove a connector, don't pull at wire of connector. It is possible that a wire is snapped.
- When installing a connector, don't press down at wire of connector. It is possible that a wire is snapped.
- Do not apply excessive load to the gilded flexible board.

Cut and remove the part of gilt which comes off at the point.
(Be careful or some pieces of gilt may be left inside)

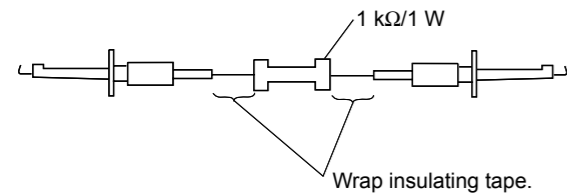


DISCHARGING OF THE CHARGING CAPACITOR (C901)

The charging capacitor is charged up to the maximum 330 V potential. There is a danger of electric shock by this high voltage when the capacitor is handled by hand. The electric shock is caused by the charged voltage which is kept without discharging when the main power of the unit is simply turned off. Therefore, the remaining voltage must be discharged as described below.

Preparing the Short Jig

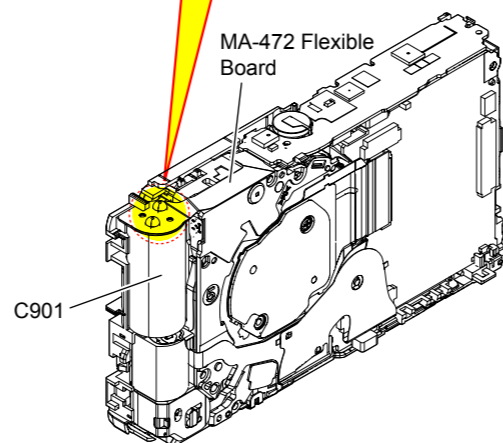
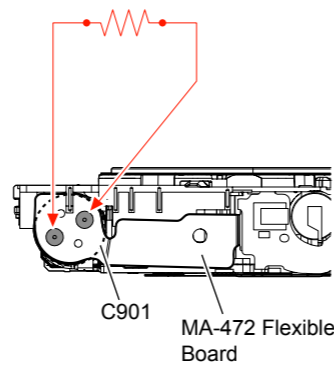
To preparing the short jig, a small clip is attached to each end of a resistor of 1 kΩ / 1 W (1-215-869-11). Wrap insulating tape fully around the leads of the resistor to prevent electrical shock.



Note: High-voltage cautions

Discharging the Capacitor
Short-circuit between two points with the short jig about 10 seconds.

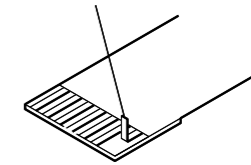
R: 1 kΩ / 1 W
(Part code: 1-215-869-11)



修理時の注意

- フラットケーブルおよびフレキシブル基板の端子面に欠け、折れ等がないことを確認する。
また、コネクタへの接続は、差し込み不足や斜め差しにならないように注意する。
- コネクタを取り外す時に、線材部(極細)を持って引っ張ると断線する恐れがありますので、絶対に線材部(極細)を持って引っ張らないでください。
- 線材部(極細)を押さえながらコネクタを差し込むと、線材部(極細)が断線する恐れがありますので、絶対に線材部(極細)には負担をかけないでください。
- 金メッキされているフレキシブル基板には、強い負担をかけないでください。

先端の剥がれたメッキ部はカットして除去してください。
(メッキ破片がコネクタ内に残っている場合もあるので注意してください)

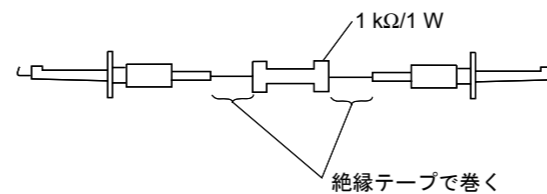


ストロボ用充電コンデンサ(C901)の放電

ストロボ用充電コンデンサは最大330Vの電圧で充電されています。この高電圧で充電されたコンデンサに手を触れた場合、電気ショックを受けます。この高電圧には単にセットの電源を切っただけでは放電されず、残留しています。このため、下記の方法で残留電圧を放電してください。

ショート治具の準備

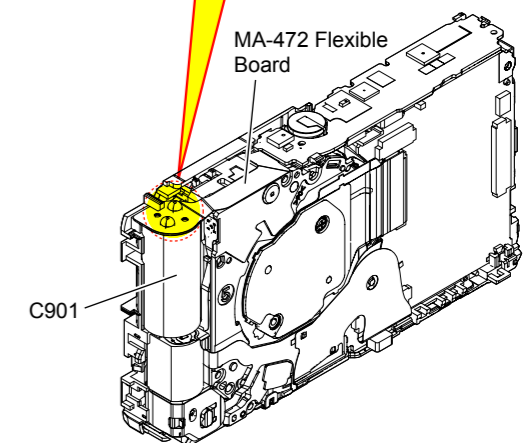
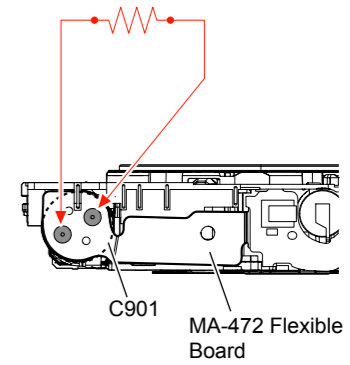
ショート治具は1kΩ/1W抵抗(1-215-869-11)の両端に小型のクリップを接続して作成します。抵抗器は絶縁テープで完全に覆い電気ショックを受けないようにしてください。



Note: 高電圧の警告

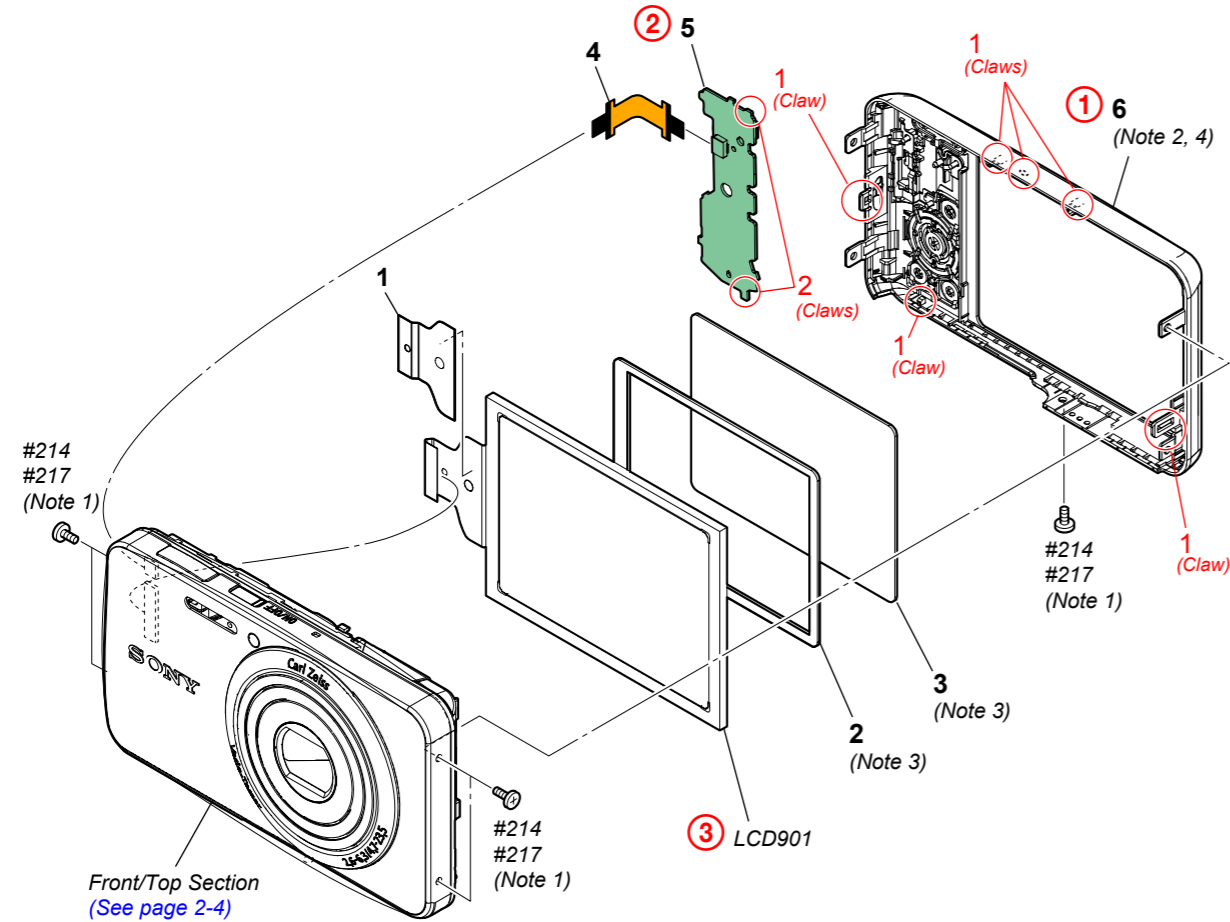
コンデンサの放電
フラッシュユニットの電源コンデンサの端子間をショート治具で約10秒間接続する。

R: 1 kΩ / 1 W
(部品コード: 1-215-869-11)



2-1. EXPLODED VIEWS

2-1-1. REAR SECTION



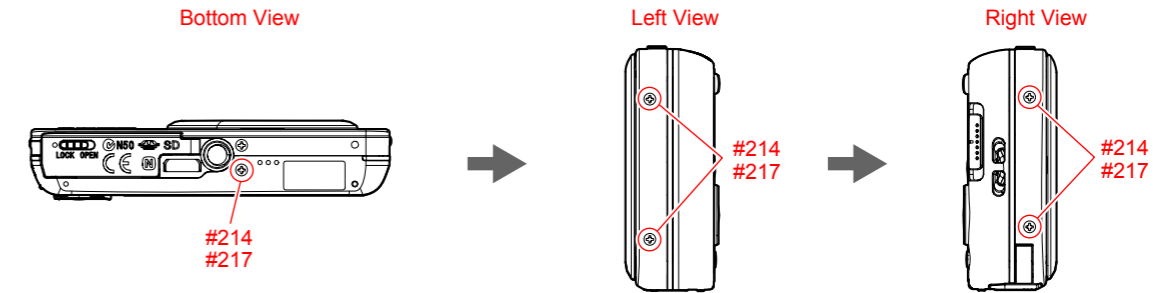
| Ref. No. | Part No. | Description |
|----------|--------------|--|
| 1 | 4-264-760-01 | INSULATING SHEET (700), LCD |
| 2 | 4-265-494-01 | CUSHION (740), LCD (Note 3) |
| 3 | 4-168-182-02 | WINDOW (670), LCD (Note 3) |
| 4 | 1-883-782-11 | FPC-029 FLEXIBLE BOARD |
| 5 | A-1799-640-A | SW-570 BOARD, COMPLETE |
| 6 | X-2560-865-1 | CABINET (REAR) ASSY (740SL) (SILVER : EXCEPT US, UK, CH, J) (Note 2, 4) |
| 6 | X-2560-880-1 | CABINET (REAR) ASSY (740BK) (BLACK : EXCEPT US, UK, CH, J) (Note 2, 4) |
| 6 | X-2560-881-1 | CABINET (REAR) ASSY (740PK) (PINK : EXCEPT US, UK, CH, J) (Note 2, 4) |
| 6 | X-2560-882-1 | CABINET (REAR) ASSY (740GD) (GOLD : EXCEPT US, UK, CH, J) (Note 2, 4) |
| 6 | X-2560-883-1 | CABINET (REAR) ASSY (740VI) (VIOLET : EXCEPT US, UK, CH, J) (Note 2, 4) |

| Ref. No. | Part No. | Description |
|----------|--------------|---|
| 6 | X-2580-234-1 | CABINET(REAR) ASSY(740SL)TJ (SILVER : US, UK, CH, J) (Note 2, 4) |
| 6 | X-2580-235-1 | CABINET(REAR) ASSY(740BK)TJ (BLACK : US, UK, CH, J) (Note 2, 4) |
| 6 | X-2580-236-1 | CABINET(REAR) ASSY(740PK)TJ (PINK : US, UK, CH, J) (Note 2, 4) |
| 6 | X-2580-237-1 | CABINET(REAR) ASSY(740GD)TJ (GOLD : US, UK, CH, J) (Note 2, 4) |
| 6 | X-2580-238-1 | CABINET(REAR) ASSY(740VI)TJ (VIOLET : US, UK, CH, J) (Note 2, 4) |
| LCD901 | 1-802-984-11 | LCD MODULE (LMS270GF07) |
| #214 | 4-264-765-11 | SCREW (M1.4), NEW TRU-STAR, P2 (Note 1) |
| #217 | 4-264-751-11 | SCREW (M1.4), NEW TRU-STAR, P2 (Note 1) |

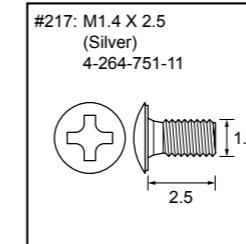
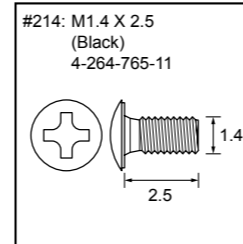
DISASSEMBLY

1. Remove to numerical order (① to ③) in the left figure.

① #214/#217 X 5



Screw



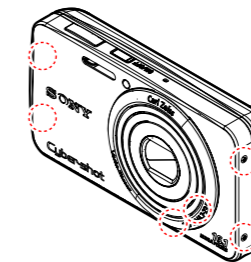
Note

Note 1 THE COMBINATION OF CABINET'S COLOR AND SCREW

The screw pointed is different according to the cabinet's color.
For the combination of cabinet's color and screw, please refer to Table 2-1.

Table 2-1

| Screw's Ref. No. (Parts Color.) | Cabinet's Color |
|---------------------------------|------------------|
| #217 (Silver) | SILVER/PINK/GOLD |
| #214 (Black) | BLACK/VIOLET |



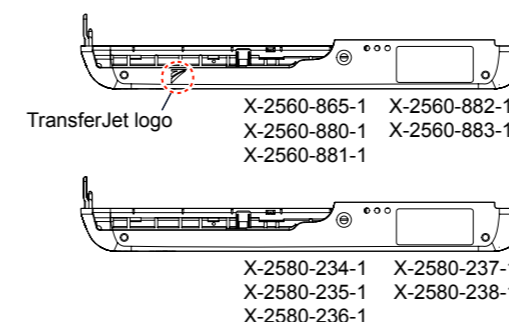
Note 2: Refer to "Assembly-4: Precaution During of Cabinet (Rear) Assy Installation."

Note 2: "Assembly-4: Precaution During of Cabinet (Rear) Assy Installation."を参照してください。

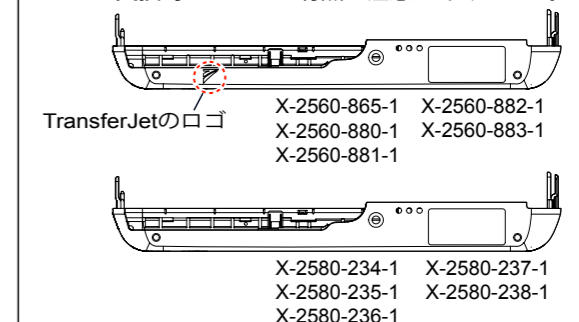
Note 3: Refer to "Assembly-5: Attaching Method of LCD Cushion (740), LCD Window (670)".

Note 3: "Assembly-5: Attaching Method of LCD Cushion (740), LCD Window (670)"を参照してください。

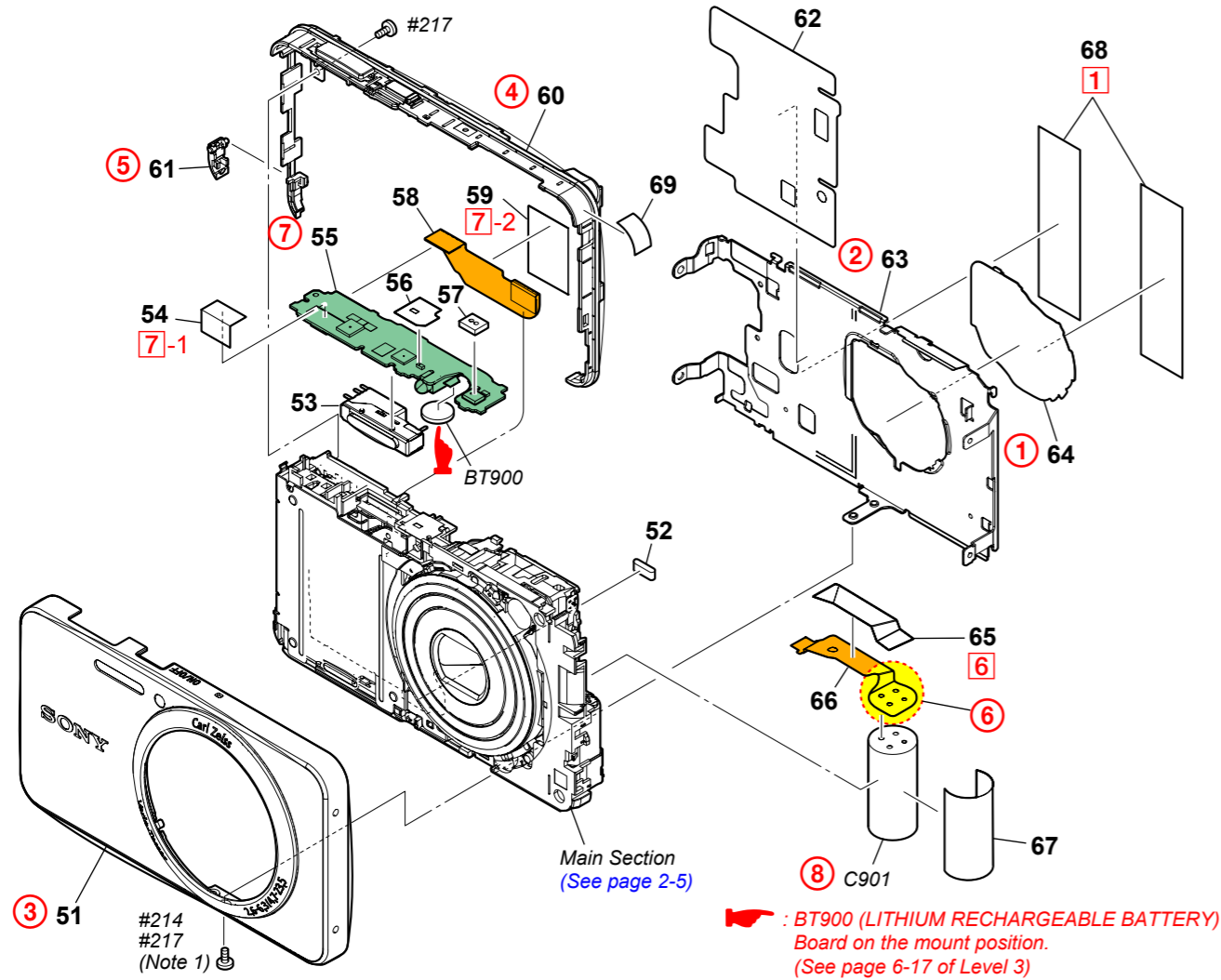
Note 4: There are two types of this part, with TransferJet logo or without TransferJet logo. When replacing this part, be careful whether a LOGO is existed or not.



Note 4: この部品にはロゴ付きとロゴ無し2種類のタイプがあります。交換時にはロゴの有無に注意してください。



2-1-2. FRONT/TOP SECTION



| Ref. No. | Part No. | Description |
|----------|--------------|---------------------------------------|
| 51 | X-2560-861-1 | CABINET (FRONT) ASSY(740SL) (SILVER) |
| 51 | X-2560-870-1 | CABINET (FRONT) ASSY (740BK) (BLACK) |
| 51 | X-2560-871-1 | CABINET (FRONT) ASSY (740PK) (PINK) |
| 51 | X-2560-872-1 | CABINET (FRONT) ASSY (740GD) (GOLD) |
| 51 | X-2560-873-1 | CABINET (FRONT) ASSY (740VI) (VIOLET) |
| * 52 | 4-265-508-01 | GASKET SY (740) |
| △ 53 | 1-489-357-11 | FLASH UNIT |
| 54 | 4-265-501-01 | SHEET (740), ST |
| 55 | A-1799-639-A | ST-243 BOARD, COMPLETE |
| 56 | 4-265-506-01 | SHEET ST (740), INTERCEPTION |
| 57 | 4-267-361-01 | HOLDER (740), MICROPHONE |
| 58 | 1-882-822-11 | FPC-025 FLEXIBLE BOARD |
| * 59 | 4-168-315-01 | TAPE (N5) |
| 60 | X-2560-867-1 | CABINET (UPPER) ASSY (740SL) (SILVER) |
| 60 | X-2560-885-1 | CABINET (UPPER) ASSY (740BK) (BLACK) |
| 60 | X-2560-886-1 | CABINET (UPPER) ASSY (740PK) (PINK) |
| 60 | X-2560-887-1 | CABINET (UPPER) ASSY (740GD) (GOLD) |
| 60 | X-2560-888-1 | CABINET (UPPER) ASSY (740VI) (VIOLET) |
| 61 | 4-265-459-01 | LID (740), DC (SILVER) |

| Ref. No. | Part No. | Description |
|----------|--------------|---|
| 61 | 4-265-459-11 | LID (740), DC (BLACK) |
| 61 | 4-265-459-21 | LID (740), DC (PINK) |
| 61 | 4-265-459-31 | LID (740), DC (GOLD) |
| 61 | 4-265-459-41 | LID (740), DC (VIOLET) |
| 62 | 4-265-498-01 | INSULATING SHEET (740), SY |
| 63 | 4-265-489-01 | FRAME (740), MAIN |
| * 64 | 4-265-490-01 | FRAME (740), SUB |
| 65 | 4-265-500-01 | INSULATING SHEET (740) |
| 66 | 1-882-746-11 | MA-472 FLEXIBLE BOARD |
| 67 | 4-265-499-01 | INSULATING SHEET (740) |
| 68 | 4-268-439-01 | SHEET (740), HOUNETSU |
| 69 | 4-277-211-01 | SPACER (740), CABINET (UPPER) |
| △ C901 | 1-116-773-11 | CAP, ALUMINIUM ELECT 53μF 330V |
| △ BT900 | 1-756-710-12 | LITHIUM RECHARGEABLE BATTERY |
| #214 | 4-264-765-11 | SCREW (M1.4), NEW TRU-STAR, P2 (Note 1) |
| #217 | 4-264-751-11 | SCREW (M1.4), NEW TRU-STAR, P2 (Note 1) |

DISASSEMBLY

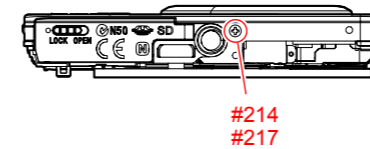
1. Remove to numerical order (① to ⑧) in the left figure.

① (①) Hounetsu Sheet (740)

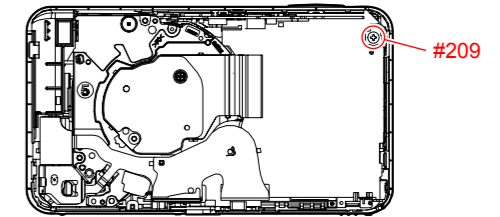
② #214/#217 X 1

④ #209 X 1

Bottom View



Back View



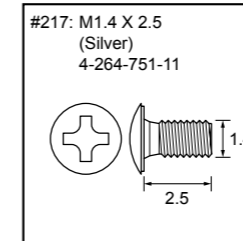
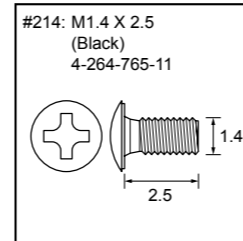
⑥ (⑥) Insulating Sheet (740)

DISCHARGING OF THE CHARGING CAPACITOR

ストロボ用充電コンデンサの放電

⑦ (⑦-1) Tape (N5) → (⑦-2) ST Sheet (740)

Screw



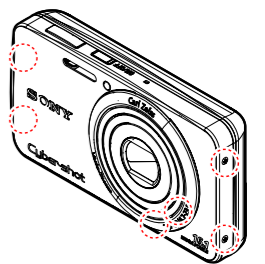
Note

Note 1 THE COMBINATION OF CABINET'S COLOR AND SCREW

The screw pointed ○ is different according to the cabinet's color. For the combination of cabinet's color and screw, please refer to Table 2-1.

Table 2-1

| Screw's Ref. No. (Parts Color.) | Cabinet's Color |
|---------------------------------|------------------|
| #217 (Silver) | SILVER/PINK/GOLD |
| #214 (Black) | BLACK/VIOLET |



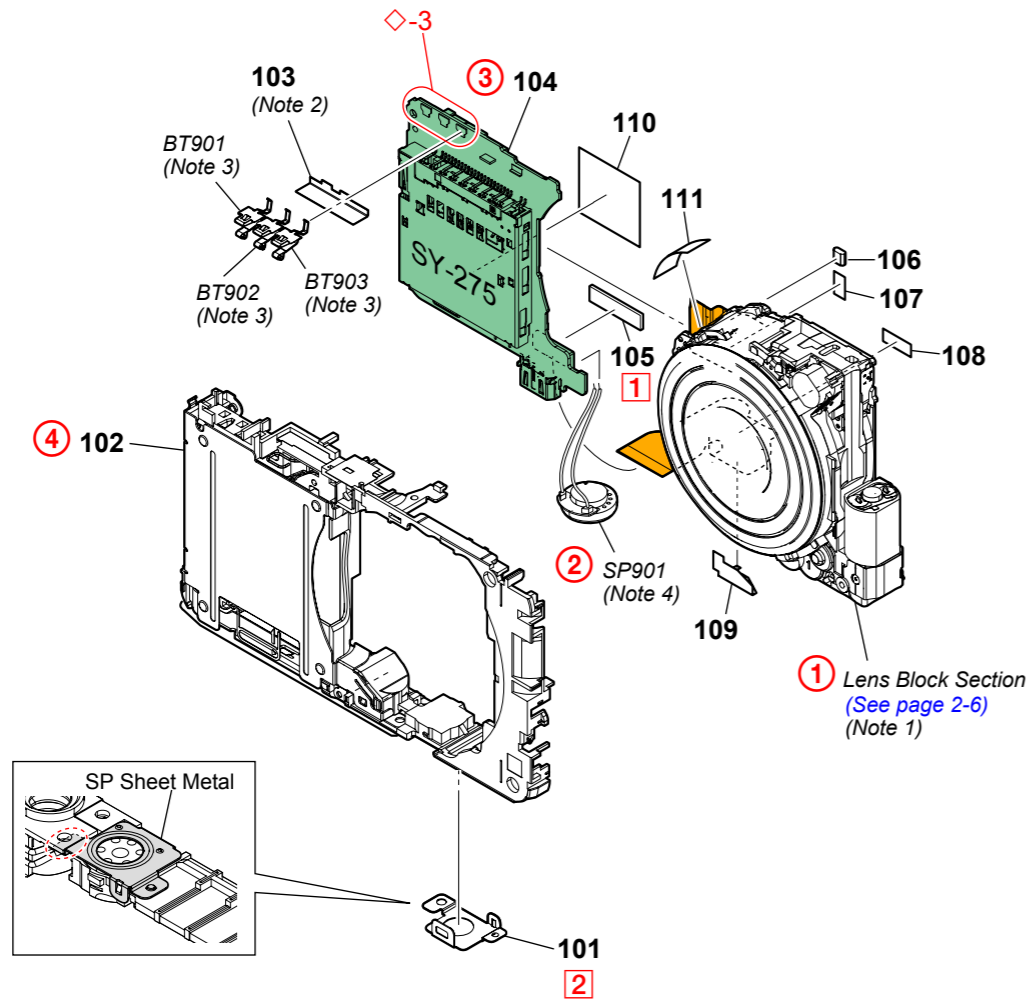
CAUTION

Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type. Dispose of used batteries according to the instructions.

注意

電池の交換は、正しく行わないと破裂する恐れがあります。電池を交換する場合には必ず同じ型名の電池又は同等品と交換してください。使用済み電池は、取扱指示に従って処分してください。

2-1-3. MAIN SECTION



| Ref. No. | Part No. | Description |
|----------|--------------|-----------------------------------|
| * 101 | 4-265-491-01 | SHEET METAL (740), SP |
| 102 | X-2560-863-1 | HOLDER ASSY (740SL), BT (SILVER) |
| 102 | X-2560-875-1 | HOLDER ASSY (740BK), BT (BLACK) |
| 102 | X-2560-876-1 | HOLDER ASSY (740PK), BT (PINK) |
| 102 | X-2560-877-1 | HOLDER ASSY (740GD), BT (GOLD) |
| 102 | X-2560-878-1 | HOLDER ASSY (740VI), BT (VIOLET) |
| 103 | 4-265-495-01 | INSULATING SHEET (740) (Note 2) |
| 104 | A-1799-646-A | SY-275 BOARD, COMPLETEL (SERVICE) |
| 105 | 4-265-496-01 | SHEET (740), MC REINFORCEMENT |
| * 106 | 3-289-764-01 | GASKET (280) |

| Ref. No. | Part No. | Description |
|----------|--------------|---------------------------------|
| 107 | 4-268-440-01 | SHEET (740), CD FUKUSHA |
| 108 | 4-269-852-01 | SHEET (740), SCREW PROTECTION |
| 109 | 4-265-505-01 | SHEET (740), PROTECTION |
| △ 110 | 4-167-589-02 | SHEET, SY RADIATION |
| 111 | 4-265-507-01 | SHEET LENS (740), INTERCEPTION |
| △*BT901 | 1-780-835-11 | TERMINAL BOARD BATTERY (Note 3) |
| △*BT902 | 1-780-835-11 | TERMINAL BOARD BATTERY (Note 3) |
| △*BT903 | 1-780-835-11 | TERMINAL BOARD BATTERY (Note 3) |
| SP901 | 1-858-302-61 | LOUDSPEAKER (0.8CM) (Note 4) |

DISASSEMBLY

- Remove to numerical order (1) to (4) in the left figure.
- The meaning of the sign in left figure is as follows. Be careful when it removes.
◇-X: Solder

① (1) MC Reinforcement Sheet (740)

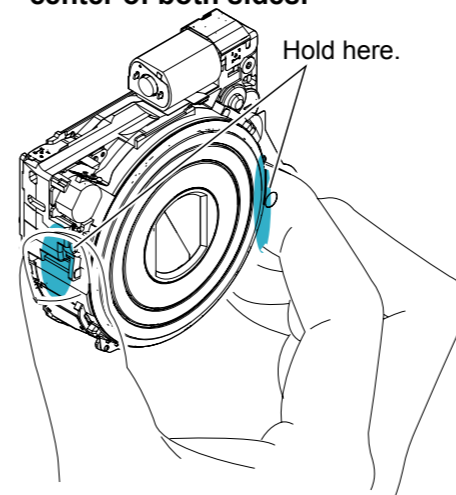
② (2) SP Sheet Metal (740)

Note

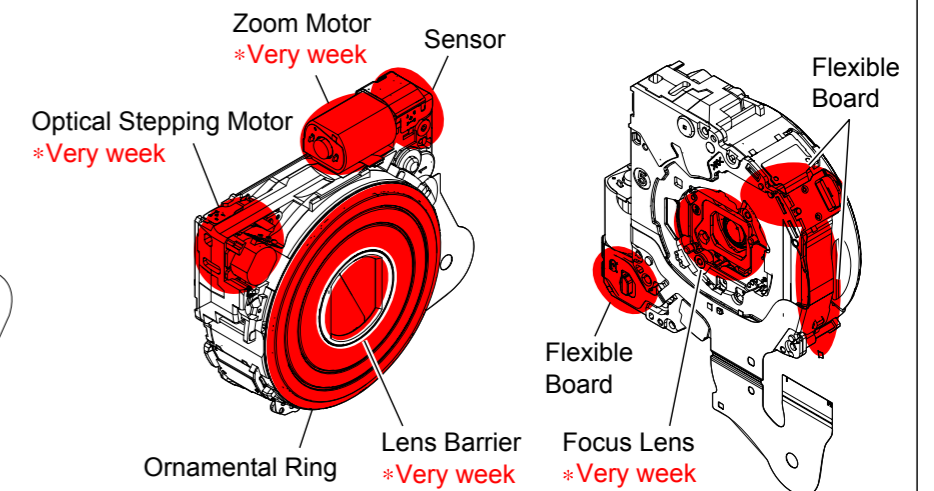
Note 1:

PRECAUTIONS WHEN HOLDING THE LENS BLOCK

Hold the Lens Block at the center of both sides.



Do not hold the following part.



Note 2: Refer to "Assembly-2: Insulating Sheet (740) Putting Position".

Note 2: "Assembly-2: Insulating Sheet (740) Putting Position"を参照してください。

Note 3: Refer to "Assembly-1: Installation Methode of Battery Terminal Board".

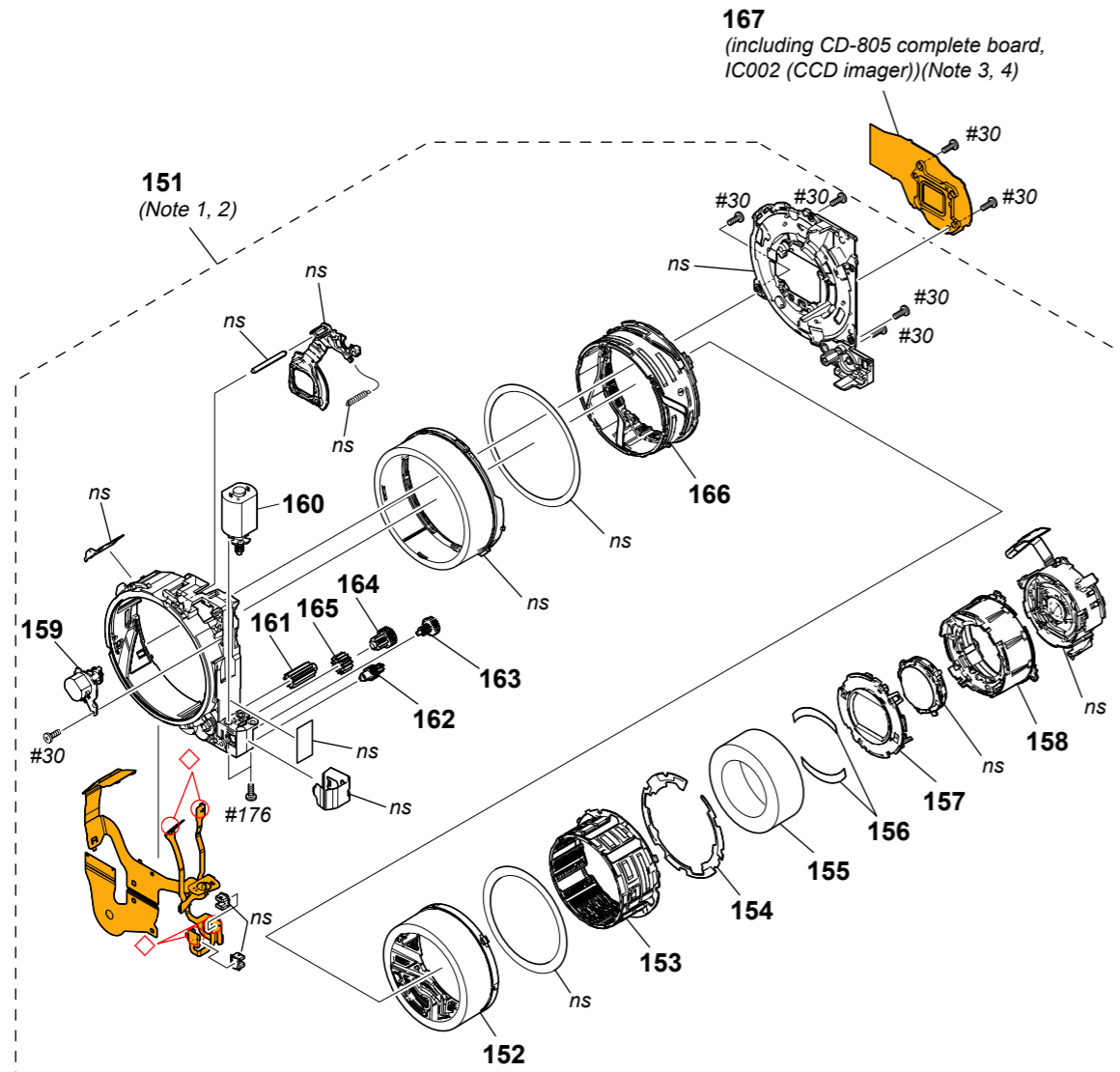
Note 3: "Assembly-1: Installation Methode of Battery Terminal Board"を参照してください。

Note 4: Refer to "Assembly-3: Precaution During Speaker Installation".

Note 4: "Assembly-3: Precaution During Speaker Installation"を参照してください。

2-1-4. LENS BLOCK SECTION

ns : not supplied



| Ref. No. | Part No. | Description |
|----------|--------------|--|
| 151 | 8-848-872-01 | LSV-1430A-DS (SILVER) (Note 1, 2) |
| 151 | 8-848-872-11 | LSV-1430A-BK (BLACK) (Note 1, 2) |
| 151 | 8-848-872-21 | LSV-1430A-GD (GOLD) (Note 1, 2) |
| 151 | 8-848-872-31 | LSV-1430A-PK (PINK) (Note 1, 2) |
| 151 | 8-848-872-41 | LSV-1430A-PP (VIOLET) (Note 1, 2) |
| 152 | A-1799-459-A | TUBE BLOCK ASSY, CAM (SILVER) |
| 152 | A-1800-101-A | TUBE BLOCK ASSY, CAM (BLACK) |
| 152 | A-1800-102-A | TUBE BLOCK ASSY, CAM (GOLD) |
| 152 | A-1800-103-A | TUBE BLOCK ASSY, CAM (PINK) |
| 152 | A-1800-104-A | TUBE BLOCK ASSY, CAM (VIOLET) |
| 153 | A-1799-617-A | LUBRICATING BLOCK ASSY, TUBE SHIELD RING (D) |
| 154 | 4-260-057-02 | RING (A), ORNAMENTAL (VIOLET) |
| 155 | 4-187-707-11 | RING (A), ORNAMENTAL (PINK) |
| 155 | 4-187-707-21 | RING (A), ORNAMENTAL (GOLD) |
| 155 | 4-187-707-41 | RING (A), ORNAMENTAL (BLACK) |
| 155 | 4-208-725-11 | RING A (Y), ORNAMENTAL (SILVER) |
| 156 | 4-147-109-01 | TAPE, BARRIER |
| 157 | A-1799-629-A | BARRIER BLOCK ASSY (SILVER) |

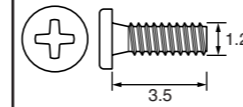
| Ref. No. | Part No. | Description |
|----------|--------------|--|
| 157 | A-1800-673-A | BARRIER BLOCK ASSY (BLACK) |
| 157 | A-1800-674-A | BARRIER BLOCK ASSY (GOLD) |
| 157 | A-1800-675-A | BARRIER BLOCK ASSY (PINK) |
| 157 | A-1800-676-A | BARRIER BLOCK ASSY (VIOLET) |
| 158 | 4-187-670-01 | FRAME, GROUP 1 |
| 159 | 1-787-994-11 | STEPPING MOTOR, OPTICAL (F1430) |
| 160 | A-1799-444-A | WORM (A) BLOCK ASSY, DC MOTOR |
| 161 | A-1799-619-A | LUBRICATING BLOCK ASSY, GEAR |
| 162 | A-1799-625-A | LUBRICATING BLOCK ASSY, (A) |
| 163 | A-1799-624-A | LUBRICATING BLOCK ASSY, (B) |
| 164 | A-1799-623-A | LUBRICATING BLOCK ASSY, (C) |
| 165 | A-1799-622-A | LUBRICATING BLOCK ASSY, (D) |
| 166 | A-1799-618-A | LUBRICATING BLOCK ASSY, TUBE |
| 167 | A-1820-254-A | ASM FILTER BLOCK ASSY (SERVICE) (including CD-805 flexible complete board, IC002 (CCD imager)) (Note 3, 4) |
| #30 | 3-086-156-11 | SCREW B1.2 |
| #176 | 3-947-504-31 | SCREW (M1.2) |

DISASSEMBLY

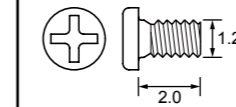
- The meaning of the sign in left figure is as follows. Be careful when it removes.
◇-X: Solder

Screw

#30: M1.2 X 3.5 (Tapping)
(White)
3-086-156-11



#176: M1.2 X 2.0
(Silver)
3-947-504-31

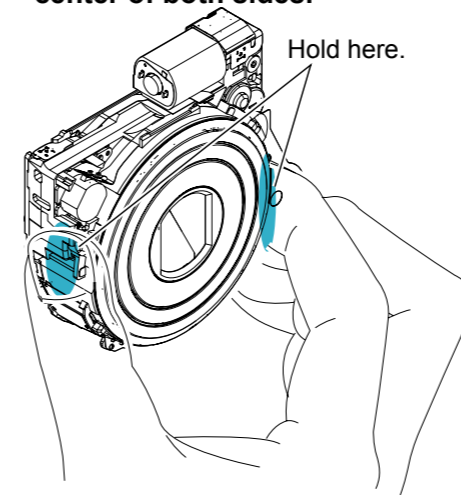


Note

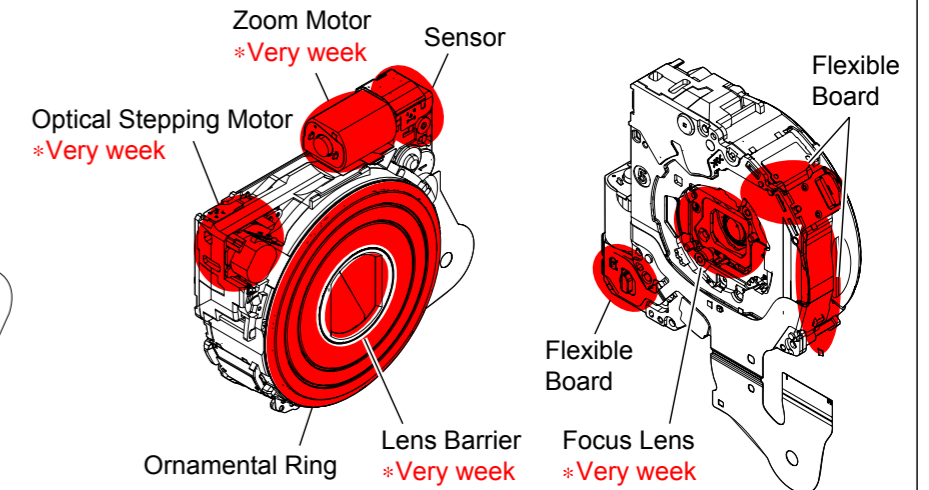
Note 1:

PRECAUTIONS WHEN HOLDING THE LENS BLOCK

Hold the Lens Block at the center of both sides.



Do not hold the following part.



Note 2: Refer to the following each item when you exchange parts of Lens Block

- 1-7. ORNAMENTAL RING A OR BARRIER ASSY REPLACING METHOD (page 1-7)
- 1-8. OPTICAL STEPPING MOTOR (F1430) REPLACING METHOD (page 1-7)
- 1-9. DC MOTOR WORM (A) ASSY REPLACING METHOD (page 1-8)
- 1-10. TWO TUBE LUBRICATING BLOCK ASSY AND GROUP 1 FRAME REPLACING METHOD (page 1-9)
- 1-11. FINAL INSPECTION (page 1-13)

Note 2: レンズブロックの各部品を交換する際は、下記の各項目を参照してください。

- 1-7. ORNAMENTAL RING A OR BARRIER ASSY REPLACING METHOD (page 1-7)
- 1-8. OPTICAL STEPPING MOTOR (F1430) REPLACING METHOD (page 1-7)
- 1-9. DC MOTOR WORM A ASSY REPLACING METHOD (page 1-8)
- 1-10. TWO TUBE LUBRICATING BLOCK ASSY AND GROUP 1 FRAME REPLACING METHOD (page 1-9)
- 1-11. FINAL INSPECTION (page 1-13)

Note 3: Be sure to read "Precautions for Replacement of Imager" on page 6-1 of Level3 when changing the imager.

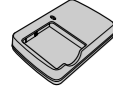
Note 3: イメージャの交換時はLevel3の6-1ページ、「イメージャ交換時の注意」を必ずお読みください。

Note 4: STATIONARY TUBE and REAR MIRROR PLATE are supplied with the ASM FILTER BLOCK ASSY (SERVICE). These two parts are used to protect the ASM FILTER BLOCK ASSY (SERVICE). Remove these two parts when replacing the ASM FILTER BLOCK ASSY (SERVICE).

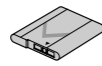
Note 4: ASM FILTER BLOCK ASSY (SERVICE)にはSTATIONARY TUBEとREAR MIRROR PLATEが付属されています。これらはASM FILTER BLOCK ASSY (SERVICE)を保護するための梱包材です。ASM FILTER BLOCK ASSY (SERVICE)交換時は、この2つを取り外して使ってください。

Checking supplied accessories.

Note : This item is supplied with the unit as an accessory, but is not prepared as a service part.



Battery charger
(BC-CSN/BC-CSNB)
△ 1-487-523-51 (J)
△ 1-487-523-31 (CH)
△ 1-487-523-21 (US, CND)
△ 1-487-523-61 (EXCEPT US, CND, CH, J)



Rechargeable battery pack (NP-BN1)
(Note)



Conversion (2P) Adaptor
△ 1-569-008-33
(E : NTSC)



Conversion (2P) Adaptor
△ 1-569-007-12 (JE)



Power cord (mains lead)
(EXCEPT US, CND, CH, J)
△ 1-837-421-11 (UK, E (Saudi), HK)
△ 1-837-428-11 (KR)
△ 1-837-427-11 (AEP, E (EXCEPT Saudi))
△ 1-837-422-11 (JE)



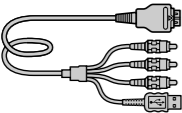
Instruction Manual

• (Only for destination Japanese model)
日本語・英語・韓国語・中国語のみ部品供給可能です。

- 4-264-163-01 (JAPANESE)
- 4-264-163-11 (SIMPLIFIED CHINESE)
- 4-264-164-11 (ENGLISH)
- * 4-264-164-21 (ENGLISH, SPANISH)
- * 4-264-164-31 (ENGLISH, FRENCH)
- * 4-264-164-61 (ENGLISH, SIMPLIFIED CHINESE, TRADITIONAL CHINESE, MALAY, INDONESIAN, THAI, ARABIC, PERSIAN)
- * 4-264-164-71 (ENGLISH, SPANISH, PORTUGUESE)
- * 4-264-164-81 (ENGLISH, SIMPLIFIED CHINESE, TRADITIONAL CHINESE, INDONESIAN, ARABIC, PERSIAN)
- * 4-264-164-91 (ENGLISH, SPANISH, PORTUGUESE, TRADITIONAL CHINESE, SIMPLIFIED CHINESE, KOREAN)
- 4-264-165-21 (KOREAN)
- * 4-267-859-11 (ENGLISH, ARABIC, PERSIAN)



Wrist strap
2-050-981-01 (Gray) (SILVER, PINK, GOLD)
2-050-981-11 (Black) (BLACK, VIOLET)



USB, A/V cable for multi-use terminal
1-837-299-21

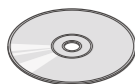


Cyber-shot User Guide (HTML)

About Cyber-shot User Guide (HTML)

- The CD-ROM supplied contains all of language version.
- The printed matter is not supplied.
- The following lists part numbers of languages.
- This CD-ROM is provided in HTML.

Therefore, it is suitable for browsing on the PC, but is not suitable for printing.



CD-ROM
(Cyber-shot application software / "Cyber-shot User Guide")
4-267-856-01 (J)
4-267-857-01 (EXCEPT J)

- | | |
|--------------------------------------|---------------------------------------|
| * 4-264-094-01 (JAPANESE) | * 4-264-095-71 (HUNGARIAN) |
| * 4-264-094-11 (ENGLISH) | * 4-264-095-81 (SLOVAK) |
| * 4-264-094-21 (FRENCH) | * 4-264-095-91 (SWEDISH) |
| * 4-264-094-31 (ITALIAN) | * 4-264-096-11 (FINNISH) |
| * 4-264-094-41 (SPANISH) | * 4-264-096-21 (NORWEGIAN) |
| * 4-264-094-51 (PORTUGUESE) | * 4-264-096-31 (DANISH) |
| * 4-264-094-61 (GERMAN) | * 4-264-096-41 (THAI) |
| * 4-264-094-71 (DUTCH) | * 4-264-096-51 (MALAY) |
| * 4-264-094-81 (TRADITIONAL CHINESE) | * 4-264-096-61 (TURKISH) |
| * 4-264-094-91 (SIMPLIFIED CHINESE) | * 4-264-096-71 (GREEK) |
| * 4-264-095-11 (RUSSIAN) | * 4-264-096-81 (UKRAINIAN) |
| * 4-264-095-21 (ARABIC) | * 4-264-096-91 (CROATIAN) |
| * 4-264-095-31 (PERSIAN) | * 4-264-097-11 (ROMANIAN) |
| * 4-264-095-41 (KOREAN) | * 4-264-097-21 (INDONESIAN) |
| * 4-264-095-51 (POLISH) | * 4-264-097-31 (BRAZILIAN PORTUGUESE) |
| * 4-264-095-61 (CZECH) | |

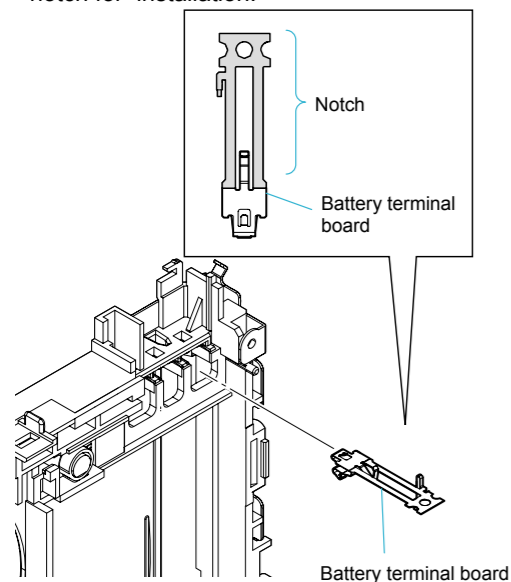
3. ASSEMBLY

Assembly-1: Installation Method of Battery Terminal Board

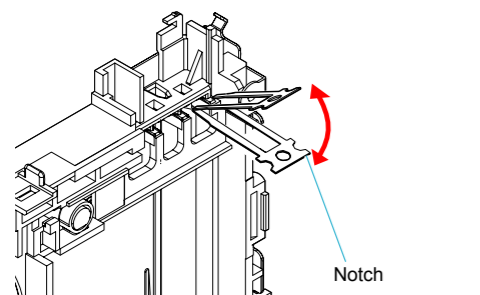
Remove the battery terminal board by bending the claw of rock portion. When assembling the battery terminal board, replace it with new one because battery terminal board will be bent.

Insert the battery terminal board into a slit in BT holder to install.

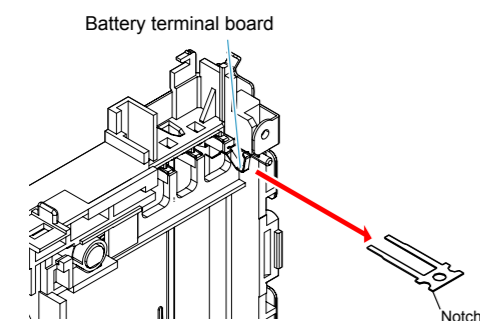
* Battery terminal board is attached with notch for installation.



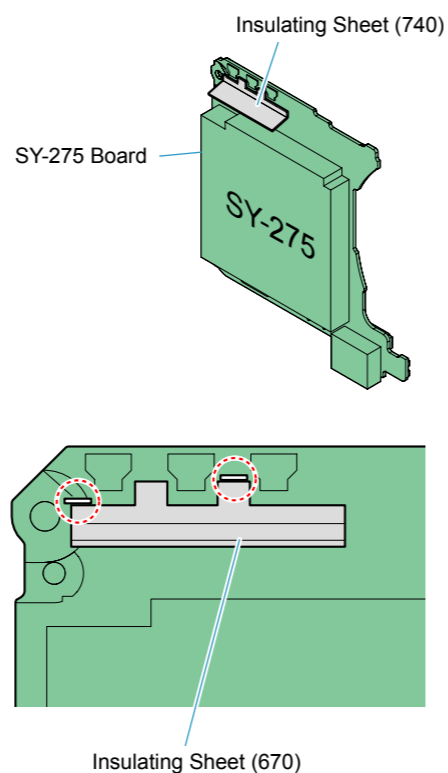
Fold the notch 3 or 4 times repeatedly to break.



Remove the notch.

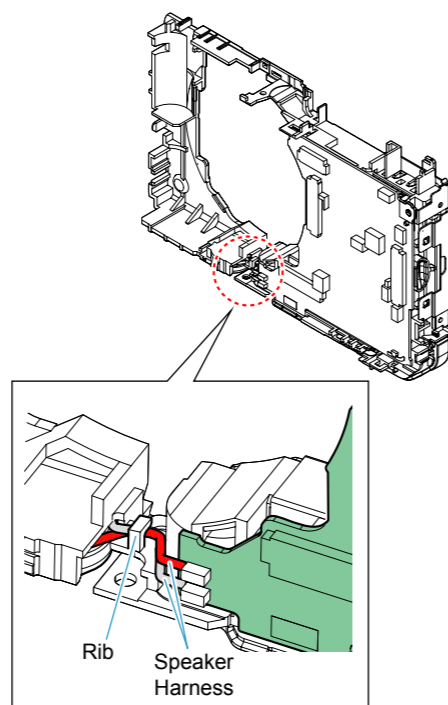


Assembly-2: Insulating Sheet (740) Putting Position



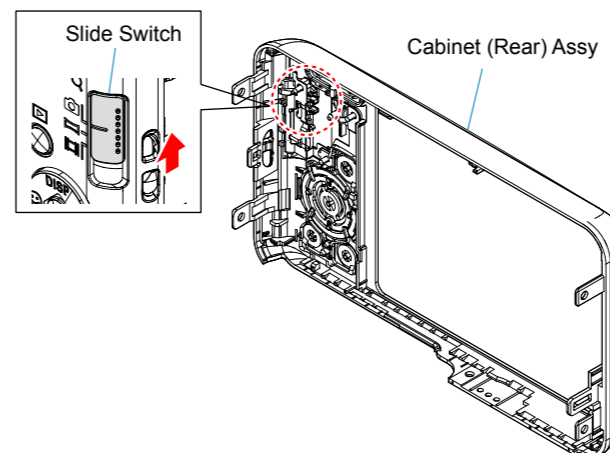
Assembly-3: Precaution During Speaker Installation.

Route the speaker harness as shown below.



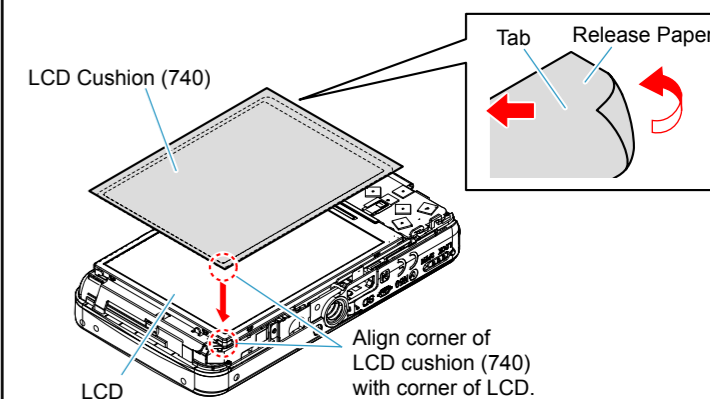
Assembly-4: Precaution During of Cabinet (Rear) Assy Installation.

Align the slide switch at the camera mode, when install the cabinet (rear) assy.

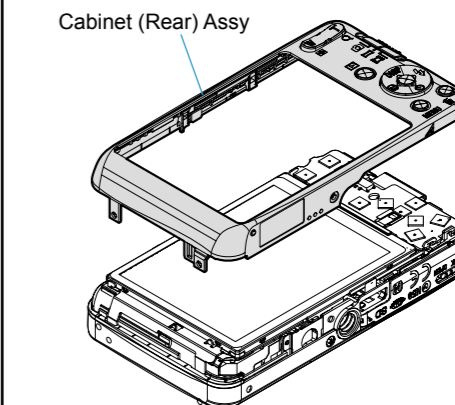


Assembly-5: Attaching Method of LCD Cushion (740), LCD Window (670)

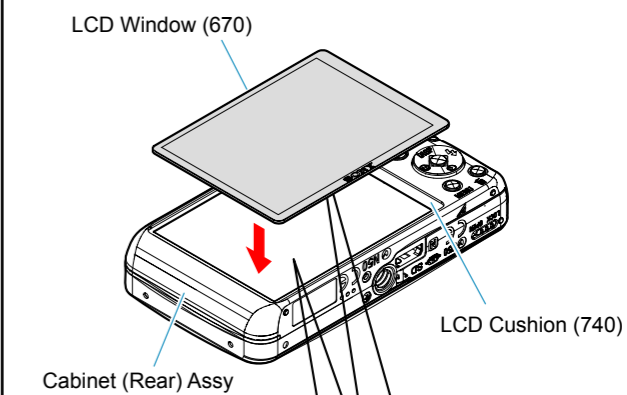
Apply LCD cushion (740). And have the Tab of the Release Paper and peel it off.



Attach Cabinet (Rear) Assy to set.



Fit LCD Window (670) into the frame of Cabinet (Rear) Assy and attach it on LCD Cushion (740).



Blow the air before attaching. Be sure to keep away from dust.