

B. DISASSEMBLY & REASSEMBLY PROCEDURES

B-1. REMOVAL OF EXTERIOR PARTS

[Chart for Removal of Exterior Parts]

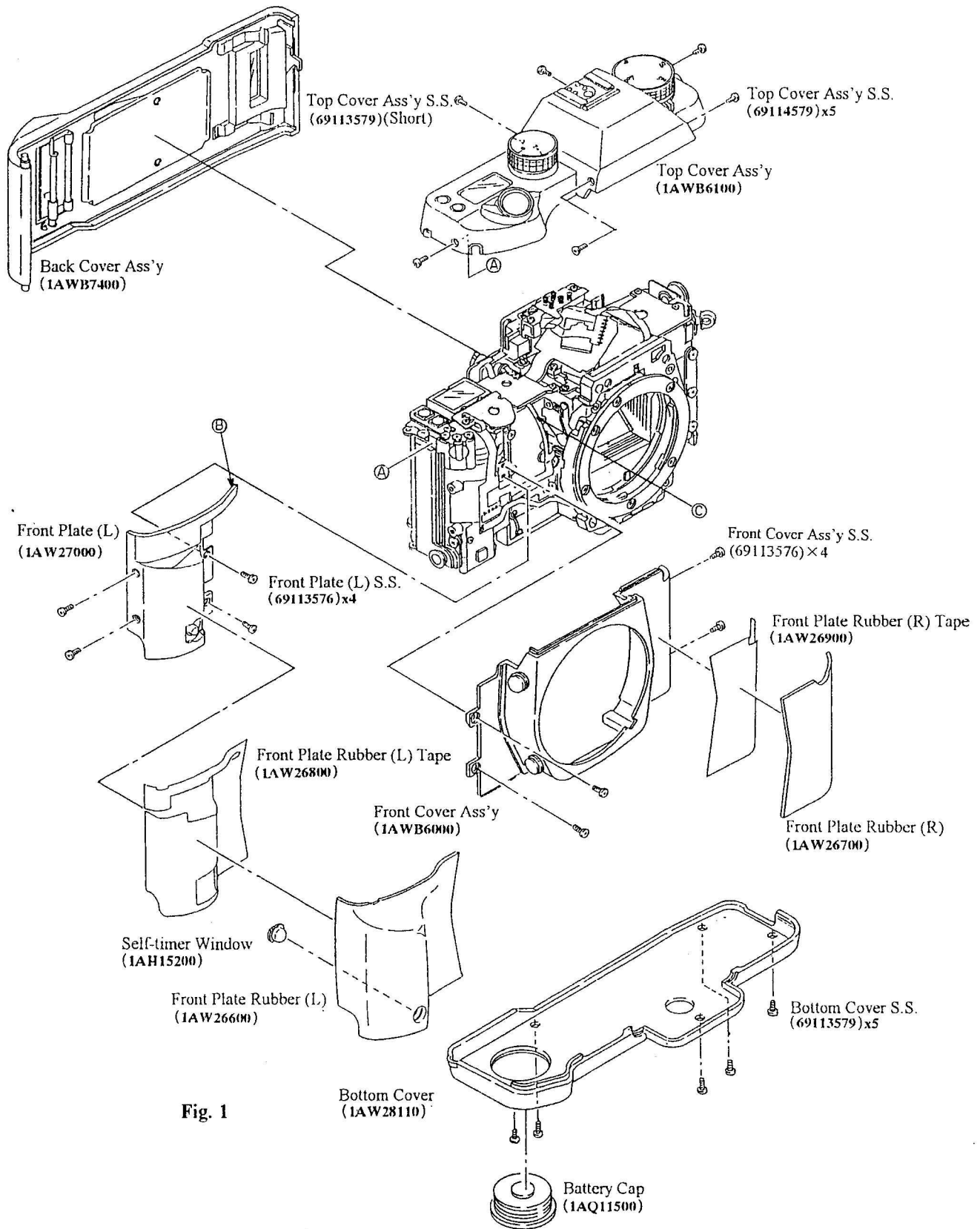


Fig. 1

B-1-1. Removal of Back Cover Ass'y

(See Fig. 1)

- 1) Open the Back Cover Ass'y (1AWB7400) by pressing and sliding downward the lock button of the B. Lock Plate Base Ass'y.
- 2) Remove the Back Cover Ass'y while pushing down the Back Cover Release Pin.

B-1-2. Removal of Bottom Cover

(See Fig. 1)

- 1) Remove the Bottom Cover Setscrews (69113579) × 5 and take off the Bottom Cover (1AW28100).

B-1-3. Removal of Top Cover Ass'y

(See Fig. 1)

- 1) Remove the Top Cover Ass'y Setscrews (69114579) × 5, (69113579) and take off the Top Cover Ass'y (1AWB6100).
- 2) Unsolder the Black lead wire (from the Conduction Auxiliary Plate for the shoe) on the Main FPC. (See Fig. 2).

Notes :

- Since there is a difference in length between the Top Cover Ass'y Setscrews (69114579) × 5 (L : 4.5) and (69113579) (L : 3.5), take due care when tightening them.
- Remove the Top Cover Ass'y with the dials kept mounted on it.
- Take care not to bend or deform any of the Main SW Contact, ABC SW Contacts, Exp. Compensation Dial Contacts, Shutter Dial Contacts and Exposure Mode SW Contacts, which are incorporated in the Top Cover Ass'y.
- When the Top Cover Ass'y has been removed, take care not to bend or deform the Shoe Spring on the Main FPC Ass'y. (See Fig. 2)

B-1-4. Removal of Front Cover Ass'y

(See Fig. 1)

- 1) Peel off the Front Plate Rubber (R) (1AW26700).
- 2) Peel off the Front Plate Rubber (L) (1AW26600) and remove the Self-timer Window (1AH15200).

Notes :

- The Front Plate Rubber (R) and Front Plate Rubber (L) are fixed to the Body with the Front Plate Rubber Tape (double-stick tape).
 - Once the Front Plate Rubber (R) and Front Plate Rubber (L) have been peeled off, the adhesive strength of the Front Plate Rubber Tape weakens. Be sure to replace the Front Plate Rubber Tape with new one.
- 3) Remove the Front Cover Ass'y Setscrews (69113576) × 4 and take off the Front Cover Ass'y (1AWB6000).
 - 4) Remove the Front Plate (L) Setscrews (69113576) × 4 and take off the Front Plate (L) (1AWB5300), and unsolder the Red and Gray lead wires (from Self-timer LED Board) on the Main FPC. (See Fig. 2)

[Notes on Installation of Top Cover Ass'y]

(See Fig. 2)

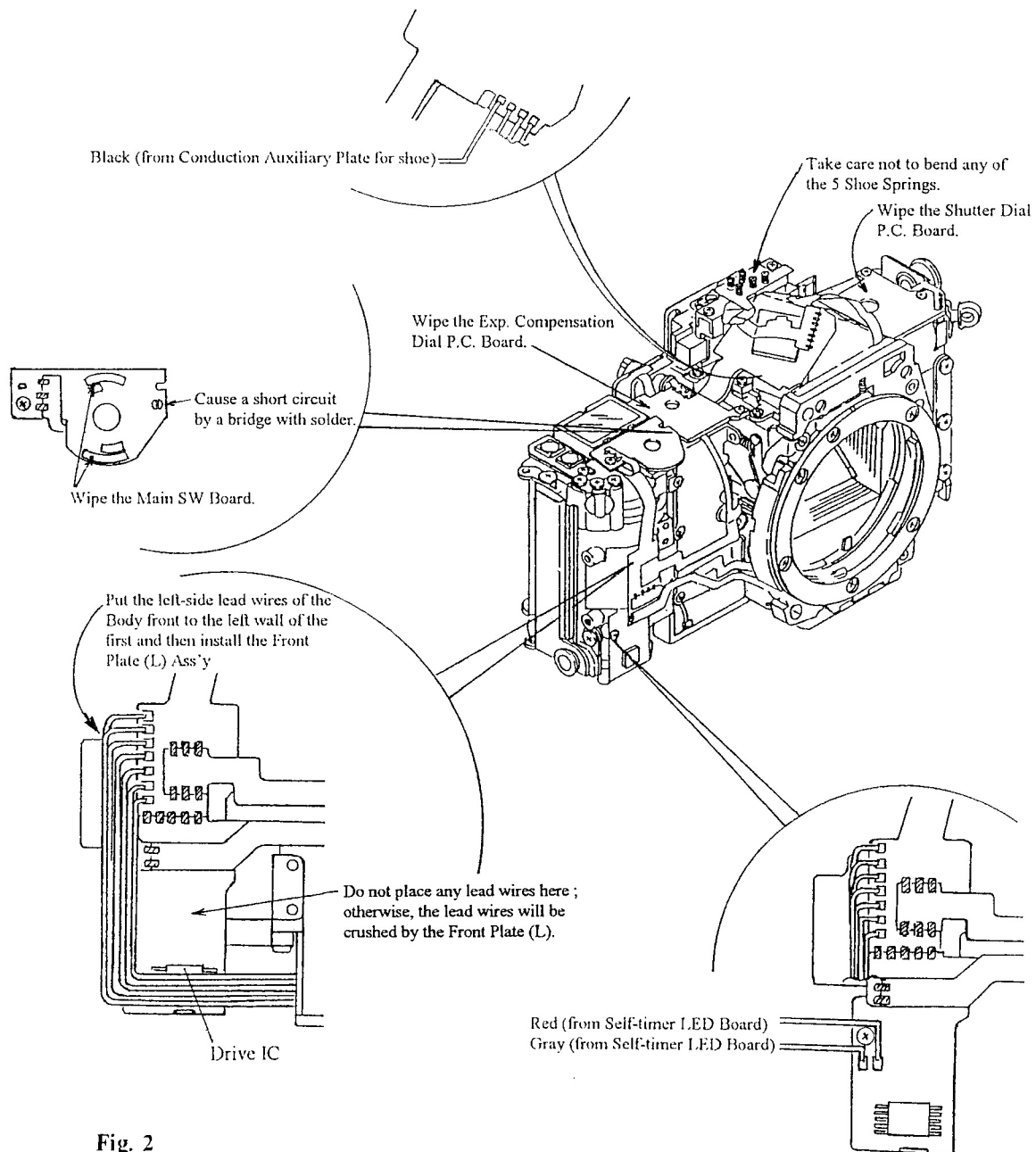
- a) Before installing the Top Cover Ass'y, wipe the patterns on the Main SW Board, Shutter Dial P.C. Board Ass'y and Exp. Compensation Dial P.C. Board Ass'y with lens cleaning paper with ether alcohol.
- b) Wipe the Main SW Contact, ABC SW Contacts, Exp. Compensation Dial Contacts, Shutter Dial Contacts and Exposure Mode SW Contacts with lens cleaning paper with ether alcohol.

[How to Check Camera Operation with Top Cover Ass'y Removed]

- a) To operate the camera with the Top Cover Ass'y removed, cause a short circuit by a bridge with solder on the pattern of the Main SW Board as shown in Fig. 2.
- b) Before installing the Top Cover Ass'y, be sure to remove the solder.

[Notes on Installation of Front Plate (L)]

- a) As shown in Fig. 2, put the left-side lead wires of the Body front to the left and dress them over the Drive IC first and then install the Front Plate (L) Ass'y (1AWB5300).
- b) Install the Front Plate (L) Ass'y so that the ⊗ portion of the Front Plate (L) Ass'y presses the ⊙ portion of the Aperture Control FPC. (See Fig. 1).



B-2. Removal of Main FPC Ass'y

[Chart for Removal of Main FPC Ass'y]

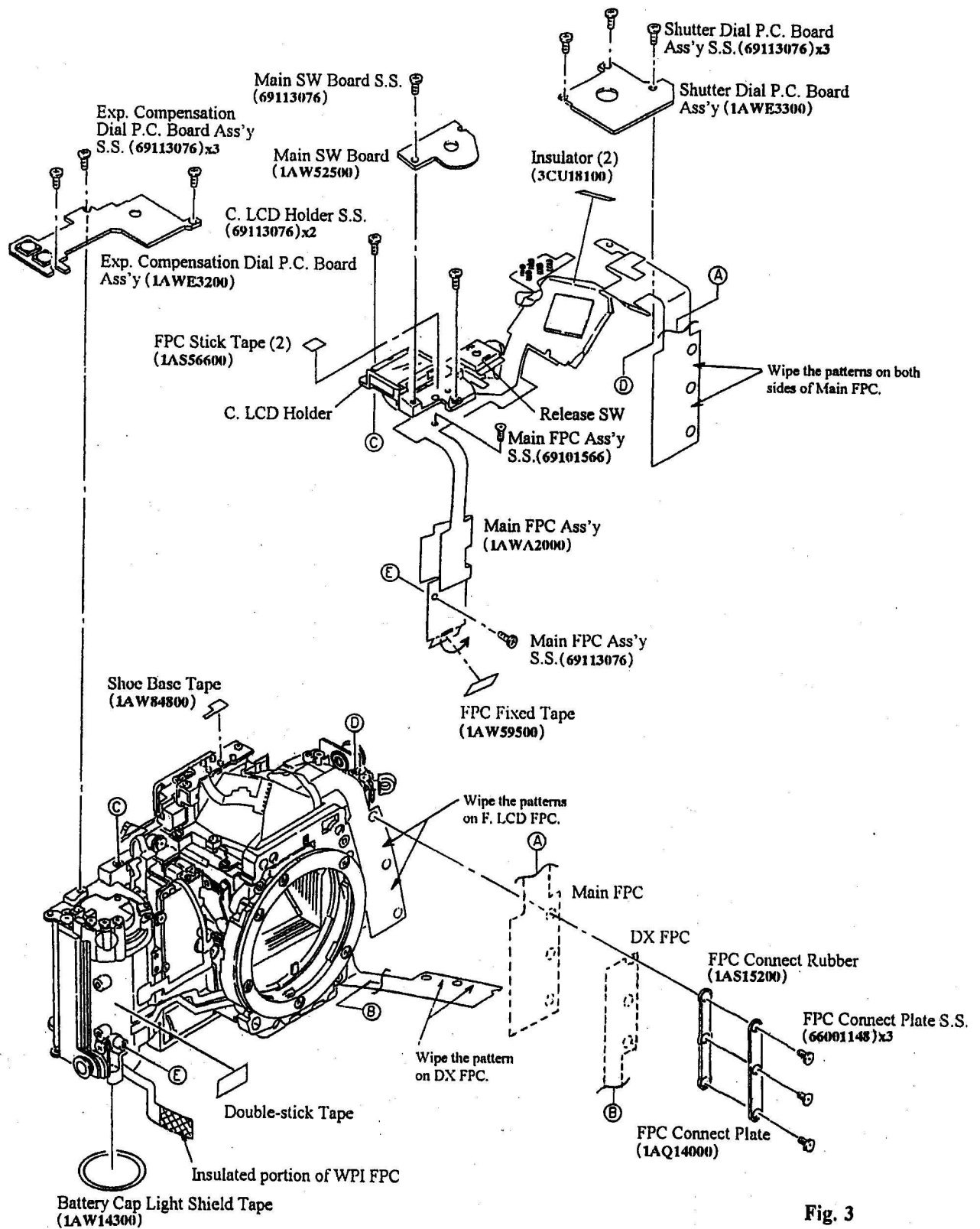


Fig. 3

B-2-1. Removal of Main FPC Ass'y

(See Figs. 3 and 4) (Bottom Left of the Body)

- 1) Peel off the Battery Cap Light Shield Tape (1AW14300).
- 2) Raise the Main FPC in the direction of the arrow and peel off the FPC Fixed Tape (1AW59500).
- 3) Peel off the insulated portion of the WPI FPC.

Note :

- Take care not to break the insulated portion of the WPI FPC when peeling it off.
- 4) Unsolder the Red lead wire (from Battery Contact (+)) and the Black lead wire (from Conduction Auxiliary Plate for Battery Cap Holder).
 - 5) Unsolder the White and Orange lead wires (from Winding Motor).
 - 6) Unsolder the Black and Red lead wires (from DX FPC).
 - 7) Unsolder the 4 soldered joints between the WPI FPC and the Main FPC.
(Front Left of the Body)
 - 8) Unsolder the Yellow, Purple and Black lead wires (from Shutter Unit).
 - 9) Unsolder the Blue and Pink lead wires (from M-AF Motor).
 - 10) Unsolder the Green lead wire (from R. Socket Ass'y) and the Black lead wire (from Conduction Auxiliary Plate for R. Socket).
 - 11) Unsolder the 6 soldered joints between the Aperture Control FPC and the Main FPC.
 - 12) Unsolder the 5 soldered joints between the Mirror FPC and the Main FPC.
 - 13) Unsolder the 2 soldered joints between the Preview FPC and the Main FPC.
(Top Left of the Body)
 - 14) Unsolder the 3 soldered joints between the Main SW Board and the Main FPC.
 - 15) Unsolder the 7 soldered joints between the Exp. Compensation Dial P.C. Board and the Main FPC.
 - 16) Remove the Main SW Board Setscrew (69113076) and take off the Main SW Board (1AW52500).
 - 17) Peel off the Release Switch portion of the Main FPC.

Note :

- Since the Release Switch portion of the Main FPC is fixed to the C. LCD Holder with the FPC Stick Tape (2) (1AS56600), take due care when peeling it off.
- 18) Remove the C. LCD Holder Setscrews (69113076) × 2 and take off the C. LCD Holder.
 - 19) Remove the Exp. Compensation Dial P.C. Board Ass'y Setscrews (69113076) × 3 and take off the Exp. Compensation Dial P.C. Board Ass'y (1AWE3200).
 - 20) Unsolder the 3 soldered joints between the Light Metering Mode FPC and the Main FPC.
 - 21) Unsolder the 3 soldered joints between the WPR FPC and the Main FPC.
(Above Penta Prism)
 - 22) Unsolder the 3 Black lead wires (from Conduction Auxiliary Plate for S. Socket, Shutter Unit and Conduction Auxiliary Plate for Battery Cap Holder).
 - 23) Unsolder the 7 soldered joints between the Light Metering FPC and the Main FPC.
 - 24) Peel off the Insulator (2) (3CU18100) and unsolder the 5 soldered joints between the Open F FPC and the Main FPC.
 - 25) Unsolder the White and Pink lead wires (from Viewfinder LED).
 - 26) Unsolder the 2 Brown lead wires (from Shutter Unit and S. Socket Ass'y).
(Top Right of the Body)
 - 27) Unsolder the 3 soldered joints between the Shutter Dial P.C. Board and the Main FPC.
 - 28) Remove the Shutter Dial P.C. Board Ass'y Setscrews (69113076) × 3 and take off the Shutter Dial P.C. Board Ass'y (1AWE3300).
(Front Right of the Body)
 - 29) Unsolder Blue, Orange and Black lead wires (from AV Board).
 - 30) Unsolder the Black lead wire (from Conduction Auxiliary Plate for Theta Board).
 - 31) Unsolder the Gray and Yellow lead wires (from Theta Board).
 - 32) Unsolder the 8 soldered joints between the TTL Flash Auto Control FPC and the Main FPC.
 - 33) Remove the FPC Connect Plate Setscrews (66001148) × 3 and take off the FPC Connect Plate (1AQ14000) and FPC Connect Rubber (1AS15200).
 - 34) Unsolder the 3 soldered joints between the Shutter FPC and the Main FPC.
 - 35) Remove the Main FPC Ass'y Setscrews (69113076), (69101566) and take off the Main FPC Ass'y (1AWA2000).

Note :

- Since the Main FPC Ass'y is fixed with the Shoe Base Tape (1AW84800) and double-stick tape, take due care when removing it.

[Chart for Unsoldering on Main FPC Ass'y]

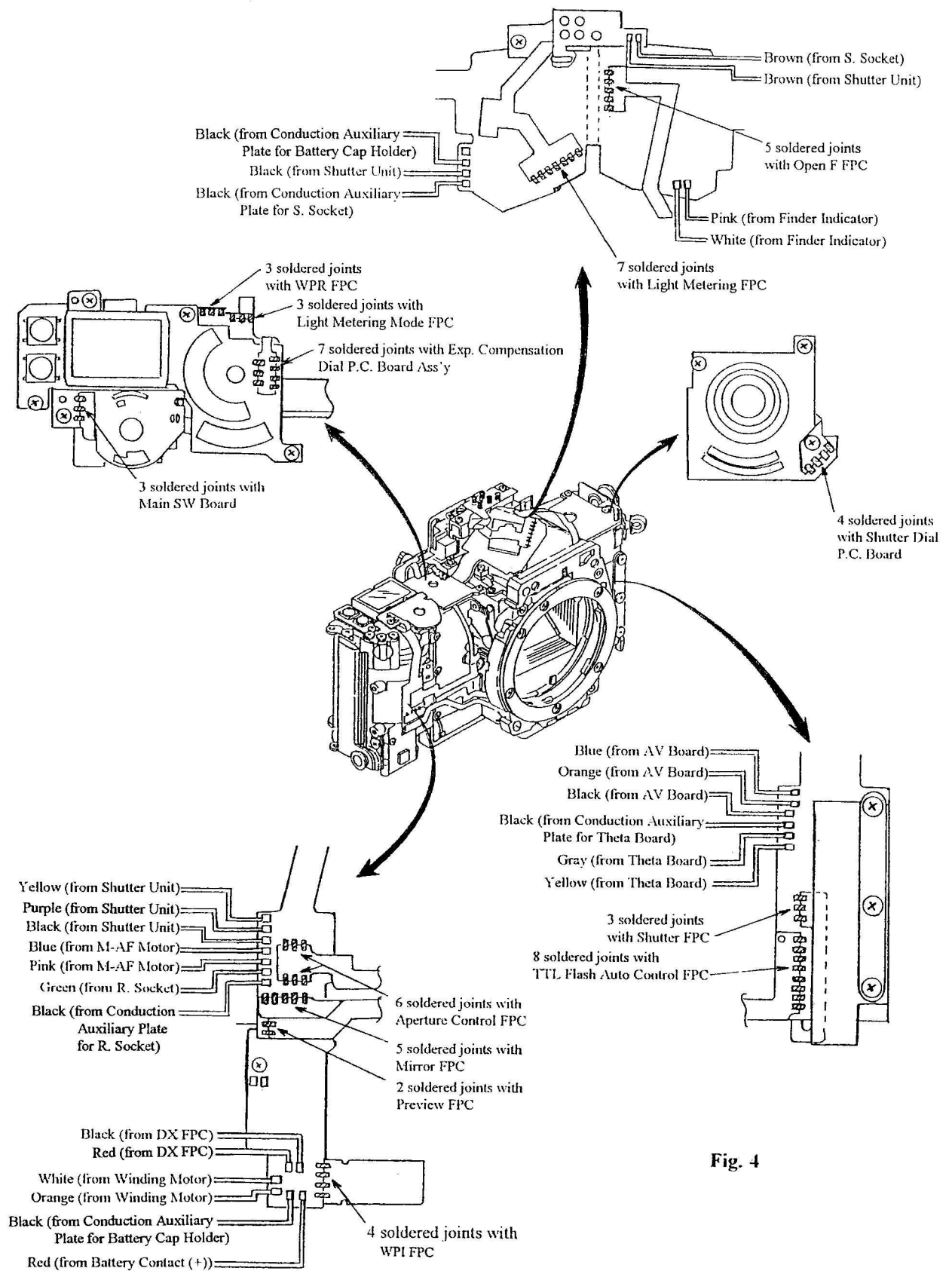


Fig. 4

[Notes on Installation of Main FPC Ass'y]

a) Before installing the Main FPC Ass'y, bend the Main FPC by the following procedure to ensure easy installation and to prevent the Main FPC from being broken :

- ① Portion below Grip ----- If this portion is not bent once along an appropriate line beforehand so that a crease is left, it will bend along the edge of the cover lay, thus the Main FPC will become apt to break.
- ② Portion to be solder-jointed with Exp. Compensation Dial P.C. Board ----- This portion to be bent is relatively hard. If this portion is not bent once beforehand so that a crease is left, it is hard to install and thus the area around the bend tends to float. Be sure to bend this portion once beforehand to ensure efficient installation.
- ③ Accessory Shoe area----- Bend this portion when installing the Main FPC Ass'y around the Penta Prism. Bend it beforehand for easy installation.
- ④ Portion around Penta Prism ----- The Main FPC has been folded double in this portion to be bent and thus this portion is relatively hard. If this portion is not bent once beforehand so that a crease is left, the installed Main FPC swells and comes in contact with the ABC Click Ass'y located inside the Top Cover Ass'y.

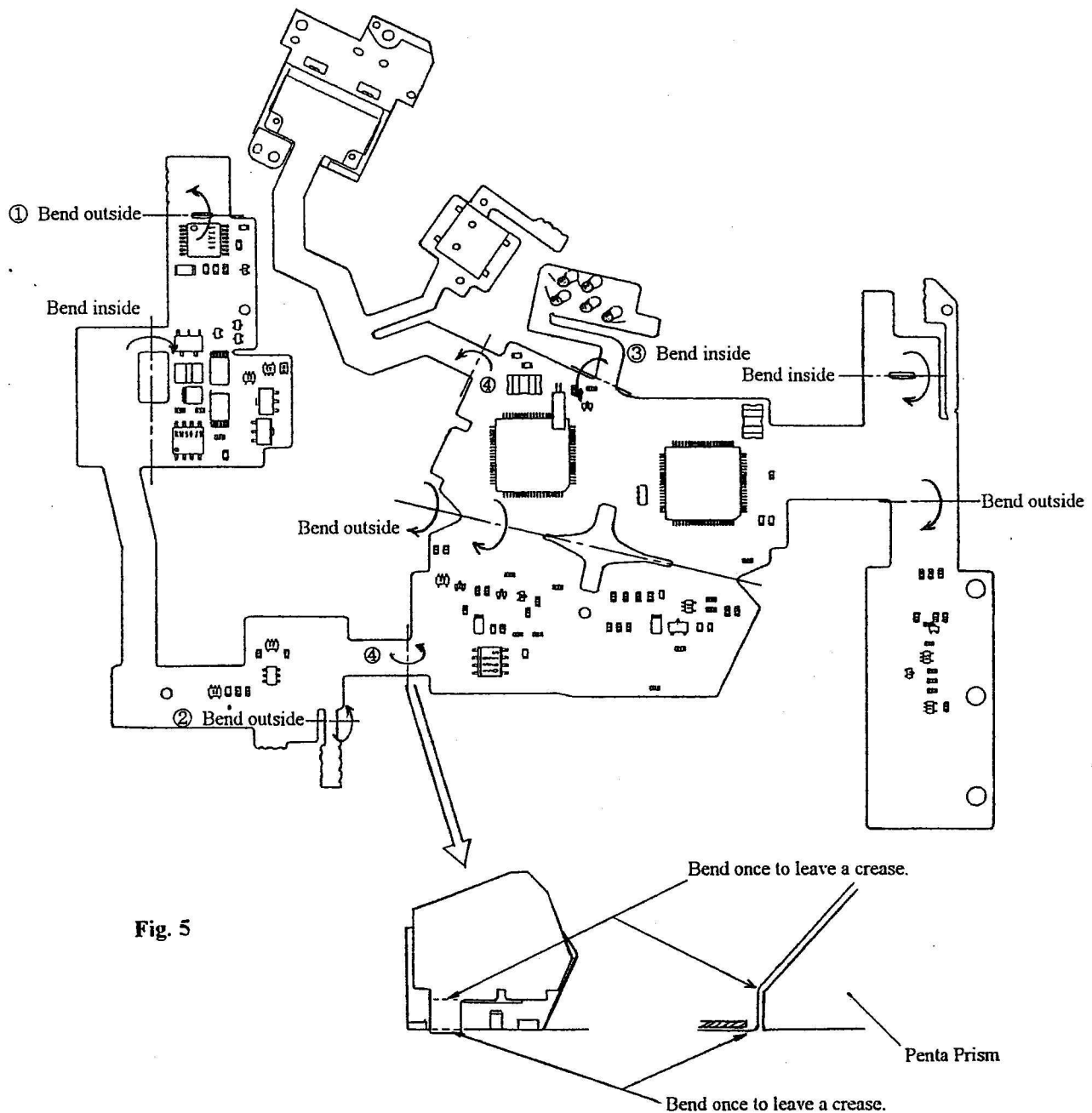
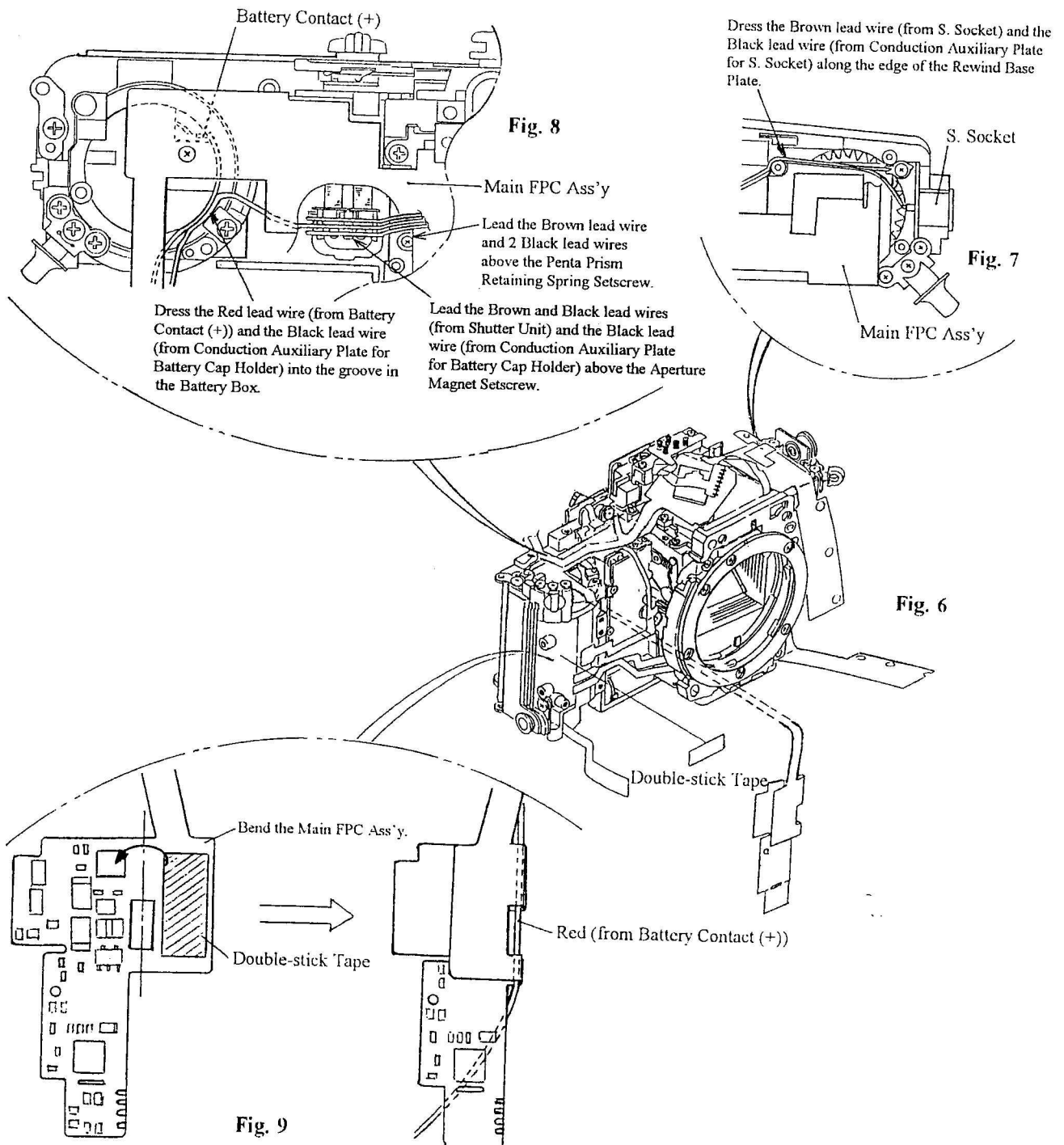
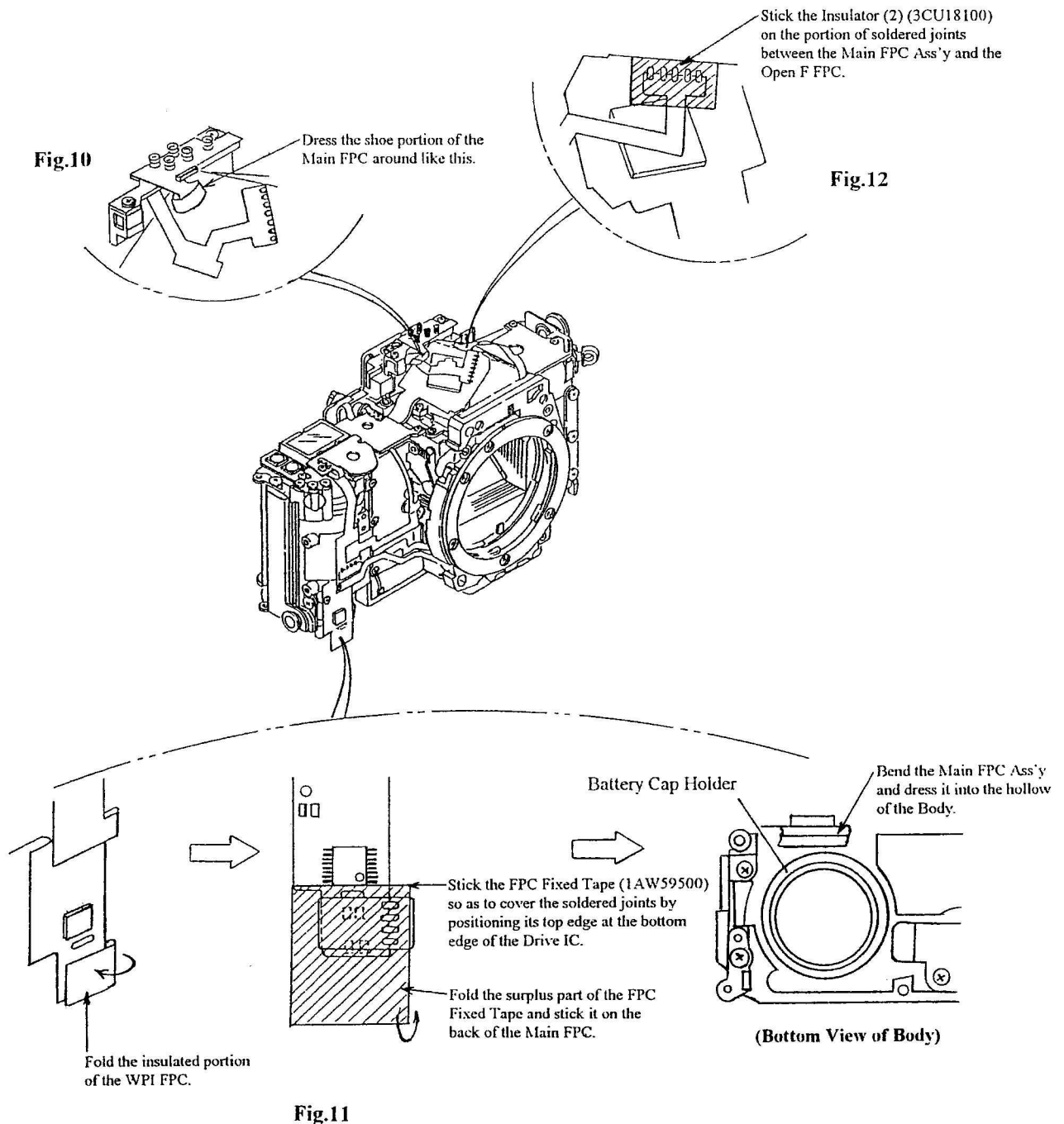


Fig. 5

- b) When installing the Shutter Dial P.C. Board Ass'y, dress the Brown lead wire (from S. Socket) and the Black lead wire (from Conduction Auxiliary Plate for S. Socket) as shown in Fig. 7.
- c) When installing the Exp. Compensation Dial P.C. Board Ass'y, dress the Red lead wire (from Battery Contact (+)), Black lead wire (from Conduction Auxiliary Plate for Battery Cap Holder) and the Black and Brown lead wires (from Shutter Unit) as shown in Fig. 8.
- d) Dress the front left portion of the Main FPC Ass'y as follows : (See Fig. 9)
 - ① Stick double-stick tape on the Main FPC Ass'y and then fold the Main FPC Ass'y.
In doing so, dress the Red lead wire (from Battery Contact (+)) inside the fold of the Main FPC.
 - ② Stick double-stick tape on the Body and affix the Main FPC Ass'y to the Body.



- e) With lens cleaning paper with ether alcohol, wipe the connector patterns on both sides of the Main FPC Ass'y, the connector pattern on the F. LCD FPC and the connector pattern on the DX FPC. (See Fig. 3).
- f) Dress the Main FPC Ass'y around the shoe as shown in Fig. 10.
- g) Dress the lower portion of the Main FPC Ass'y as follows : (See Fig. 11)
 - ① Fold the insulated portion of the WPI FPC.
 - ② Stick the FPC Fixed Tape (1AW59500).
 - ③ Fold the FPC Fixed Tape.
 - ④ Bend the Main FPC Ass'y and dress it between the Body and the Battery Cap Holder.
- h) Stick the Insulator (2) (3CU18100) on the portion of the soldered joint between the Main FPC Ass'y and the Open F FPC. (See Fig. 12)



B-3. REMOVAL OF MIRROR BOX ASS'Y & SHUTTER UNIT

B-3-1. Removal of Mirror Box Ass'y

(See Fig. 13)

- 1) Remove the Eye-piece Frame Setscrews (69123579) × 2 and take off the Eye-piece Frame (1AW25800).
- 2) Remove the Mirror Box Ass'y Setscrews (69313576) × 3, (69113576) × 2, (69228066) × 2, (69225066), (69226066) and take off the Mirror Box Ass'y.

B-3-2. Removal of Shutter Unit

(See Fig. 13)

- 1) Remove the Shutter Unit Setscrews (66001126) × 3 and take off the Shutter Unit (1AW35000).

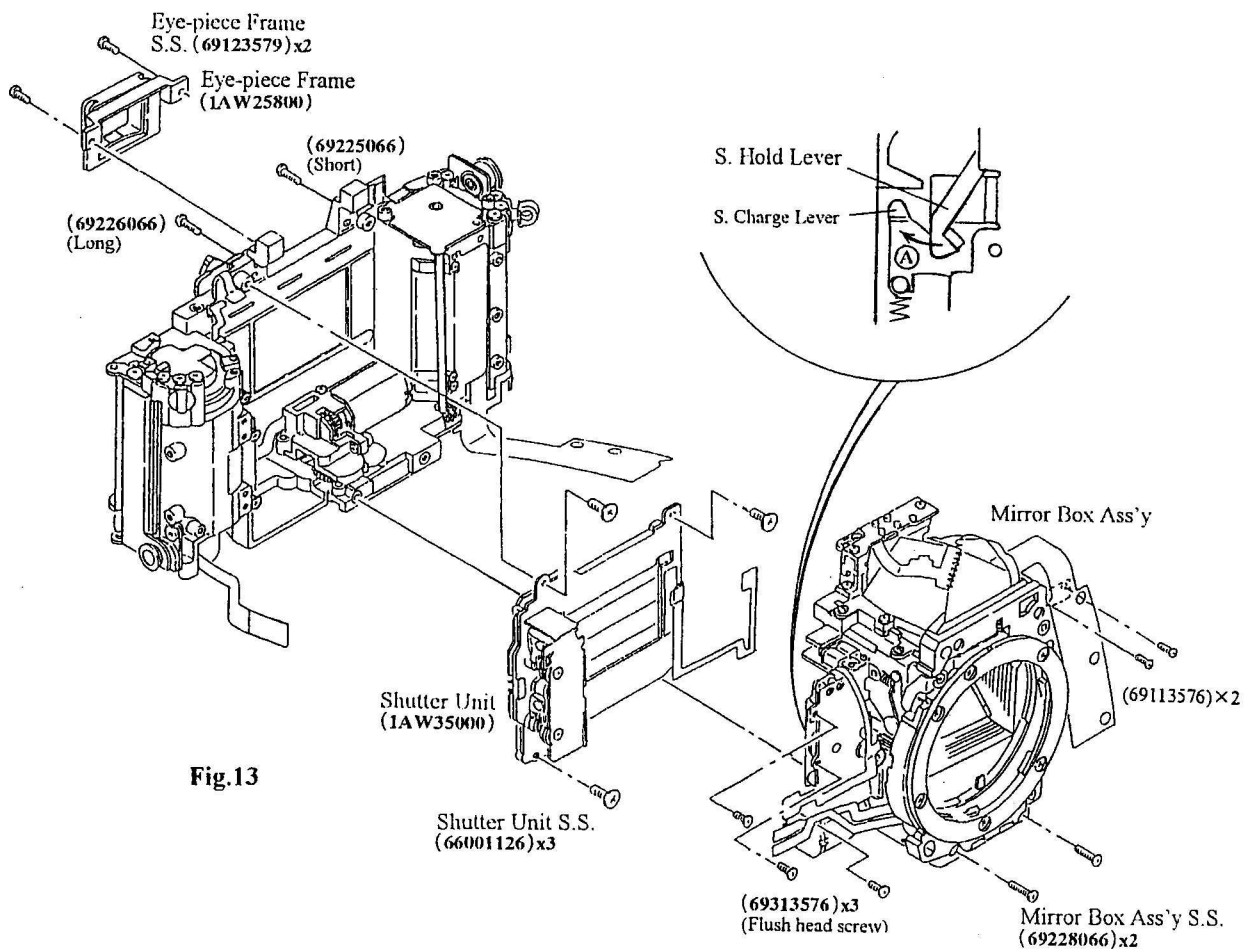


Fig.13

[Notes on Installation of Mirror Box Ass'y]

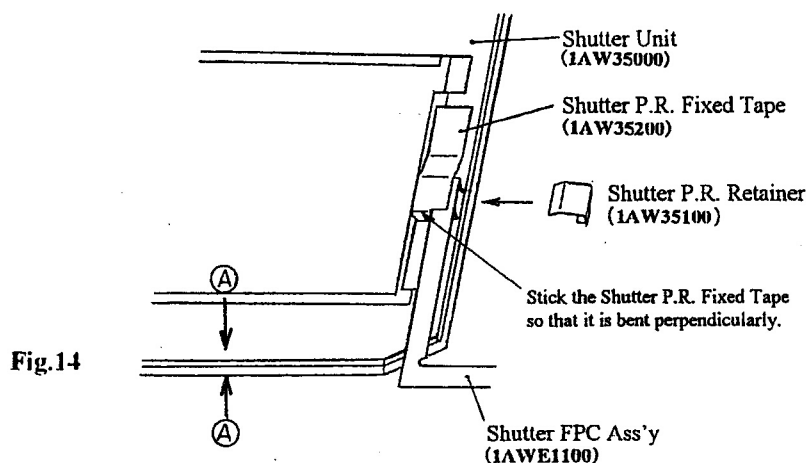
- a) By moving the S. Hold Lever incorporated in the Mirror Box Ass'y in the direction of the arrow ①, rotate the rotor of the S. Charge Motor to release the hook of the S. Hold Lever and the hook of the S. Charge Lever. In this state, where the mirror is in the UP position, install the Mirror Box Ass'y in the Body. (See Fig. 13)
- b) When installing the Mirror Box Ass'y in the Body, take care not to catch any lead wires or FPC between the Body and the Mirror Box Ass'y.

[Notes on Handling of Shutter Unit]

- The blades of the Shutter Unit are made with precision. Never touch the blades with your finger nor push them with any tool.
- Never clean the blades of the Shutter Unit with any solvent (such as, ether alcohol).
- Do not hold the lower part ① of the Shutter Unit with your fingers. (See Fig. 14)

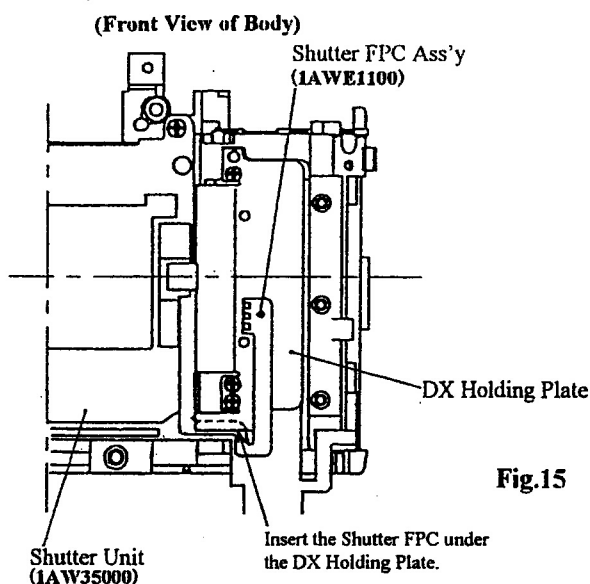
[How to Fasten the Shutter FPC Ass'y]

- As shown in Fig. 14, stick the Shutter P.R. Fixed Tape (1AW35200) on the Shutter FPC Ass'y (1AWE1100). In doing so, stick the Shutter P.R. Fixed Tape in such a way that its lower stepped portion is bent perpendicularly.
- Insert the Shutter P.R. Retainer (1AW35100) into the Shutter Unit.

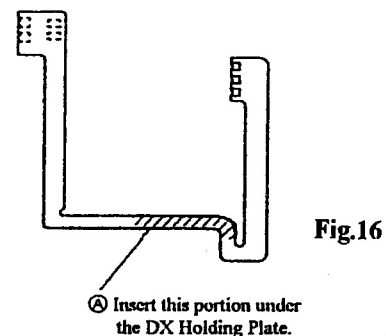


[Dressing of Shutter FPC Ass'y]

- After tightening the Shutter Unit Setscrews, insert and dress the ① portion of the Shutter FPC Ass'y under the DX Holding Plate to prevent the Shutter FPC from coming in contact with the Rewind Gear (3) Plate (1AW32600).



(Developed View of Shutter FPC Ass'y)



B-4. DISASSEMBLY OF WINDING & REWIND MECHANISM

[Chart for Disassembly of Winding & Rewind Mechanism]

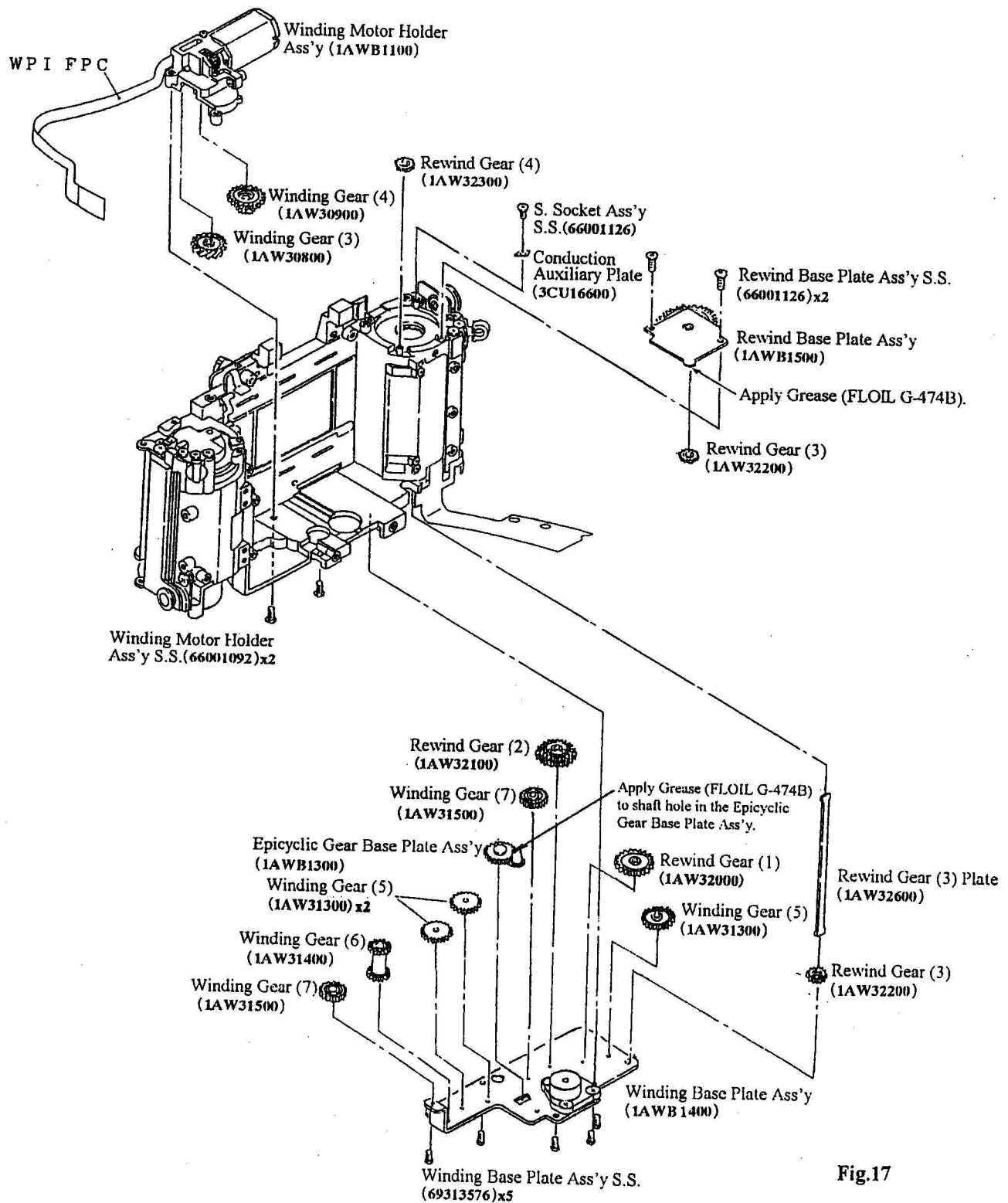


Fig.17

B-4-1. Removal of Rewind Base Plate Ass'y

(Top Right of the Body) (See Fig. 17)

- 1) Remove the S. Socket Ass'y Setscrew (66001226) and take off the Conduction Auxiliary Plate (3CU16600).
- 2) Remove the Rewind Base Plate Ass'y Setscrews (66001126) \times 2 and take off the Rewind Base Plate Ass'y (1AWB1500).
- 3) Remove the Rewind Gear (4) (1AW32300), Rewind Gear (3) (1AW32200) and Rewind Gear (3) Plate (1AW32600).

B-4-2. Removal of Winding Base Plate Ass'y

(Bottom of the Body) (See Fig. 17)

- 1) Remove the Winding Base Plate Ass'y Setscrews (69313576) \times 5 and take off the Winding Base Plate Ass'y (1AWB1400).
- 2) Remove the Winding Gear (3) (1AW32200), Winding Gear (5) (1AW31300), Winding Gear (2) (1AW32110) and Winding Gear (7) (1AW31500).
- 3) Remove the Epicyclic Gear Base Plate Ass'y (1AWB1300), Winding Gears (5) (1AW31300) \times 2, Winding Gear (6) (1AW31400) and Winding Gear (7) (1AW31500).

B-4-3. Removal of Winding Motor Holder Ass'y

(See Fig. 17)

- 1) Remove the Winding Motor Holder Ass'y Setscrews (66001092) \times 2 and take off the Winding Gear (4) (1AW30900), Winding Gear (3) (1AW30800) and Winding Motor Holder Ass'y (1AWB1100).

[Notes on Installation of Winding & Rewind Gears]

- a) When installing the Winding Gear (5) (1AW31300) (3 gears) and the Winding Gear (7) (1AW31500) (2 gears), take care not to mistake the top and bottom by paying attention to the distinction between the top and bottom as shown below :

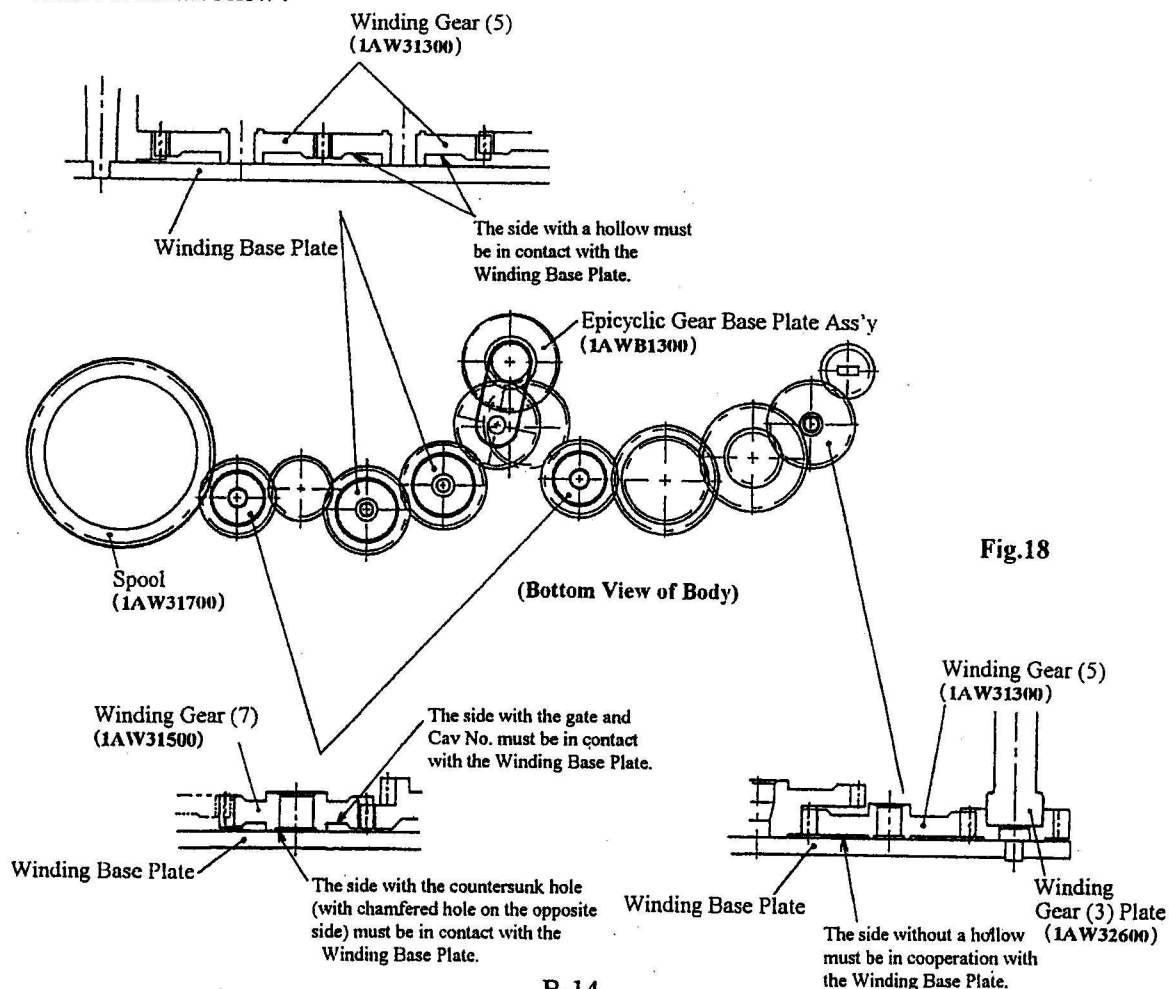
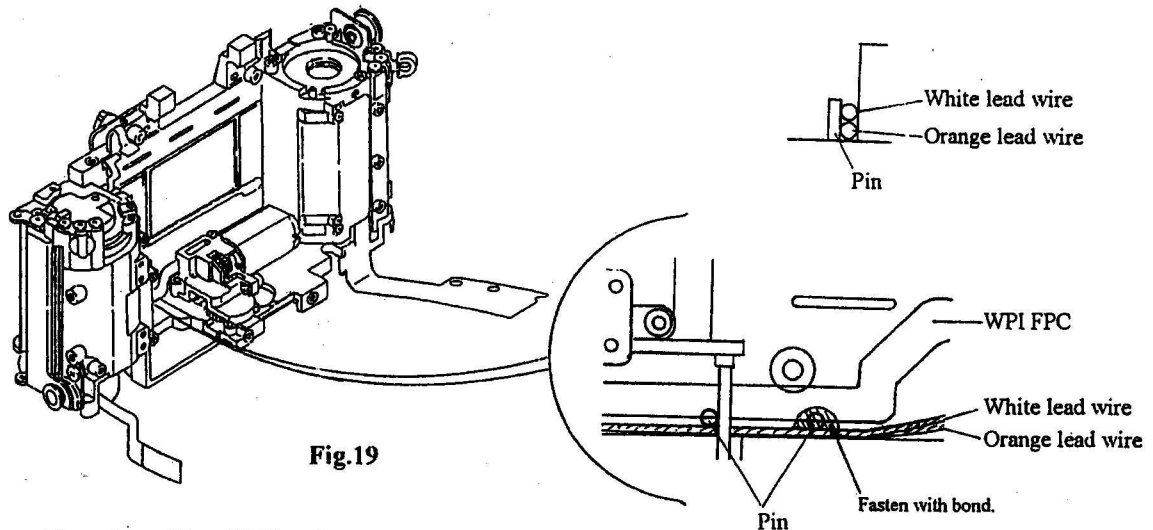


Fig.18

[Dressing of Lead Wires of Winding Motor Holder Ass'y]

- Dress the White and Orange lead wires of the Winding Motor Holder Ass'y between the pins and the Body wall by putting one lead wire on the other and fasten them by applying the bond (Cemedine 551).
- Dress the WPI FPC over the lead wires.



[Note on Dressing of Lead Wires]

- Dress the Black and Red lead wires coming from the DX FPC as shown in Fig. 20 first and then install the Winding Base Plate Ass'y (1AWB1400).

[Greasing]

- As shown in Fig. 20, apply the Grease (FLOIL G-474) to each gear shaft on the Body.
- Apply the Grease (FLOIL G-474) to the gear shafts on the Winding Motor Holder Ass'y. (See Fig. 21)

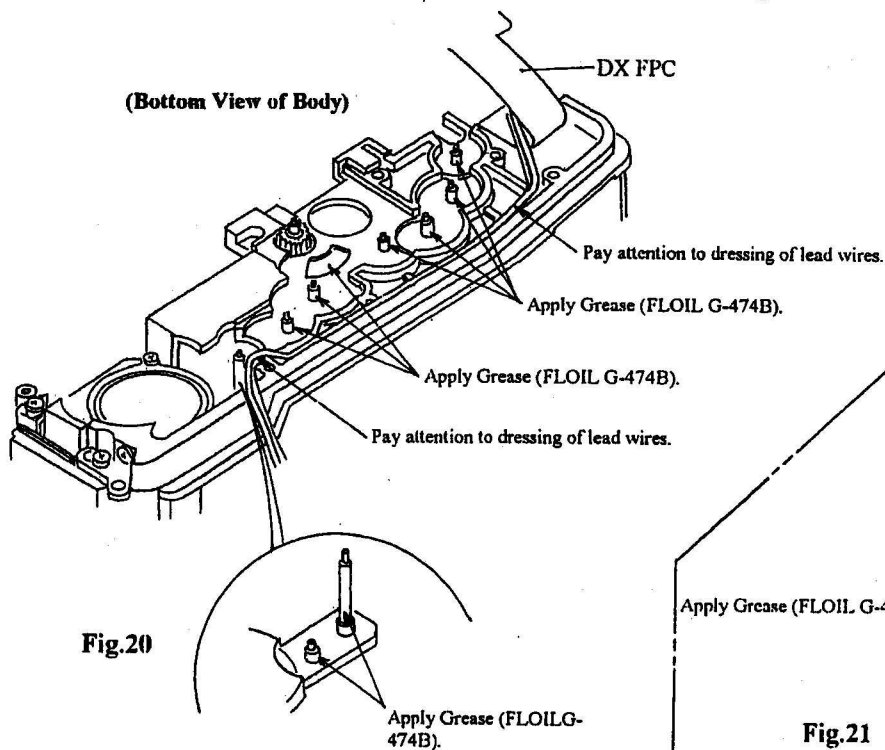


Fig.20

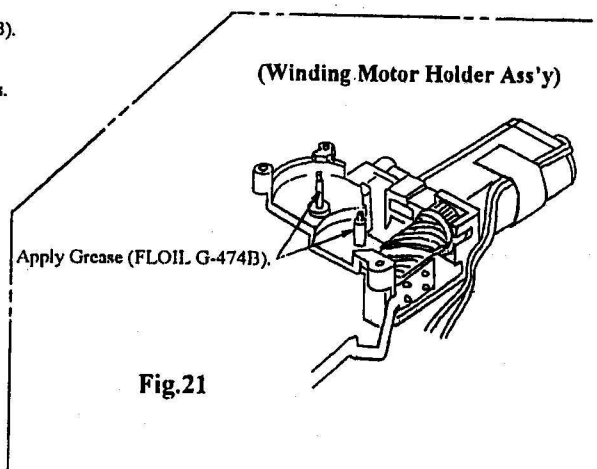
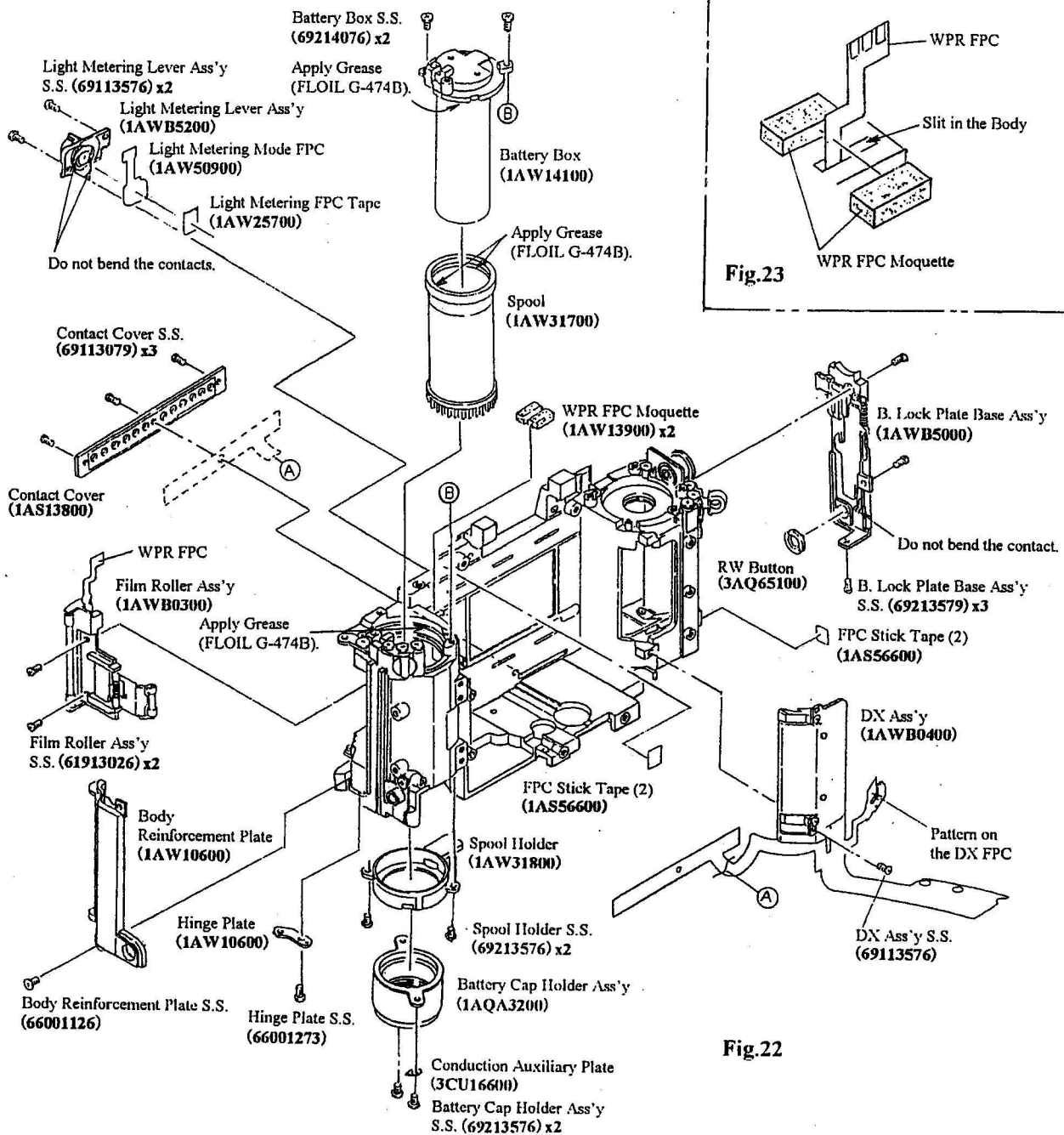


Fig.21

B-5. REMOVAL OF OTHER PARTS

[Chart for Removal of Other Parts]



B-5-1. Removal of Battery Box

(See Fig. 22)

- 1) Remove the Battery Cap Holder Ass'y Setscrews (69213576) x 2 and take off the Conduction Auxiliary Plate (3CU16600) and Battery Cap Holder Ass'y (1AQ3200).
- 2) Remove the Battery Box Ass'y Setscrews (69214076) x 2 and take off the Spool (1AW31700) and Battery Box (1AW14100).
- 3) Remove the Spool Holder Setscrews (69213576) x 2 and take off the Spool Holder (1AW31800).

B-5-2. Removal of Film Roller Ass'y

(See Fig. 22)

- 1) Remove the Hinge Plate Setscrew (66001273) at the bottom of the Body and take off the Hinge Plate (1AW10600).
- 2) Remove the Base Reinforcement Plate Setscrew (66001126) and take off the Base Reinforcement Plate (1AW10500).
- 3) Peel off the WPR FPC Moquette (1AW13900) × 2.
- 4) Remove the Film Roller Ass'y Setscrews (61913026) × 2 and take off the Film Roller Ass'y (1AWB0300).

B-5-3. Removal of DX Ass'y

(See Fig. 22)

- 1) Remove the B. Lock Plate Base Ass'y Setscrews (69213579) × 3 and take off the B. Lock Plate Base Ass'y (1AWB5000) and RW Button (3AQ65100).
- 2) Remove the Contact Cover Setscrews (69113079) × 3 and take off the Contact Cover (1AS13800).
- 3) Remove the DX Ass'y Setscrew (69113576) and take off the DX Ass'y (1AWB0400).

Notes :

- When the B. Lock Plate Base Ass'y has been removed, take care not to bend or deform the B. Lock Plate Base Contact.
- The pattern portion of the DX FPC of the DX Ass'y is fixed to the Body with the FPC Stick Tape (2) (1AS56600).
- Before installing the B. Lock Plate Base Ass'y, wipe the B. Lock Plate Base Contact and the pattern on the DX FPC with lens cleaning paper with ether alcohol.

B-5-4. Removal of the Light Metering Lever Ass'y

(See Fig. 22)

- 1) Remove the Light Metering Lever Ass'y Setscrews (69113576) × 2 and take off the Light Metering Lever Ass'y (1AWB5200).
- 2) Peel off the Light Metering Mode FPC (1AW50900).

Notes :

- When the Light Metering Lever Ass'y has been removed, take care not to bend or deform the Light Metering Lever Contact.
- The Light Metering Mode FPC (1AW50900) is fixed to the Body with the Light Metering FPC Tape (1AW25700) and FPC Stick Tape (2) (1AS56600). Usually, there is no need of removing the Light Metering Mode FPC.
- Before installing the Light Metering Lever Ass'y, wipe the Light Metering Lever Contact and the pattern on the Light Metering Mode FPC with lens cleaning paper with ether alcohol.

[Notes on Sticking of WPR FPC Moquette]

- a) Stick the WPR FPC Moquette (1AW13900) × 2 so that they are in close contact with the top surface of the slit area of the Body and the WPR FPC. (See Fig. 23)

[How to Fasten Light Metering Mode FPC]

(See Figs. 24 and 25)

- 1) Stick the Light Metering FPC Tape (1AW25700) on the back surface of the Body.
- 2) Stick the Light Metering Mode FPC by fitting it on the bosses on the Body.
- 3) Fix the Light Metering Mode FPC only to the right-side boss by applying the bond (Cemedine 551).
- 4) Stick the FPC Stick Tape (2) (1AS56600) on the front surface of the Body.
- 5) Stick the Light Metering Mode FPC by bending it so that its end is in alignment with the end of the Shutter Unit.

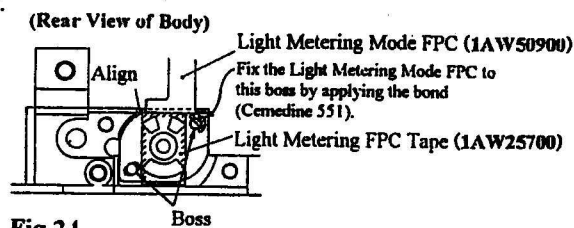


Fig.24

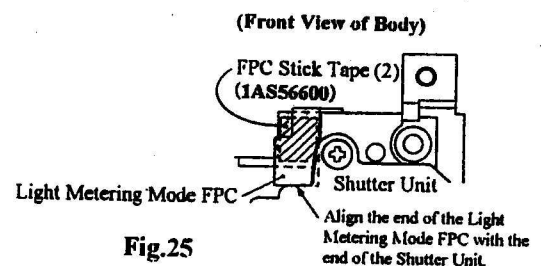


Fig.25

B-6. DISASSEMBLY & ASSEMBLY PROCEDURES FOR ASS'Y PARTS

B-6-1. Disassembly of Mirror Box Ass'y

(See Fig. 26)

- 1) Remove the Eye-piece Ass'y Setscrews (69113576) × 2 and take off the Eye-piece Ass'y (1AWF2300).
- 2) Remove the Finder Indicator Cover Ass'y Setscrews (69203076) × 2 and take off the Finder Indicator Cover Ass'y (1AWF2200).
- 3) Remove the Penta Prism Holder Setscrews (69114576) × 4 and take off the Penta Prism Holder W/ Penta Prism.
- 4) Remove the 4 or 8 Focus Adjust Washers.

Notes :

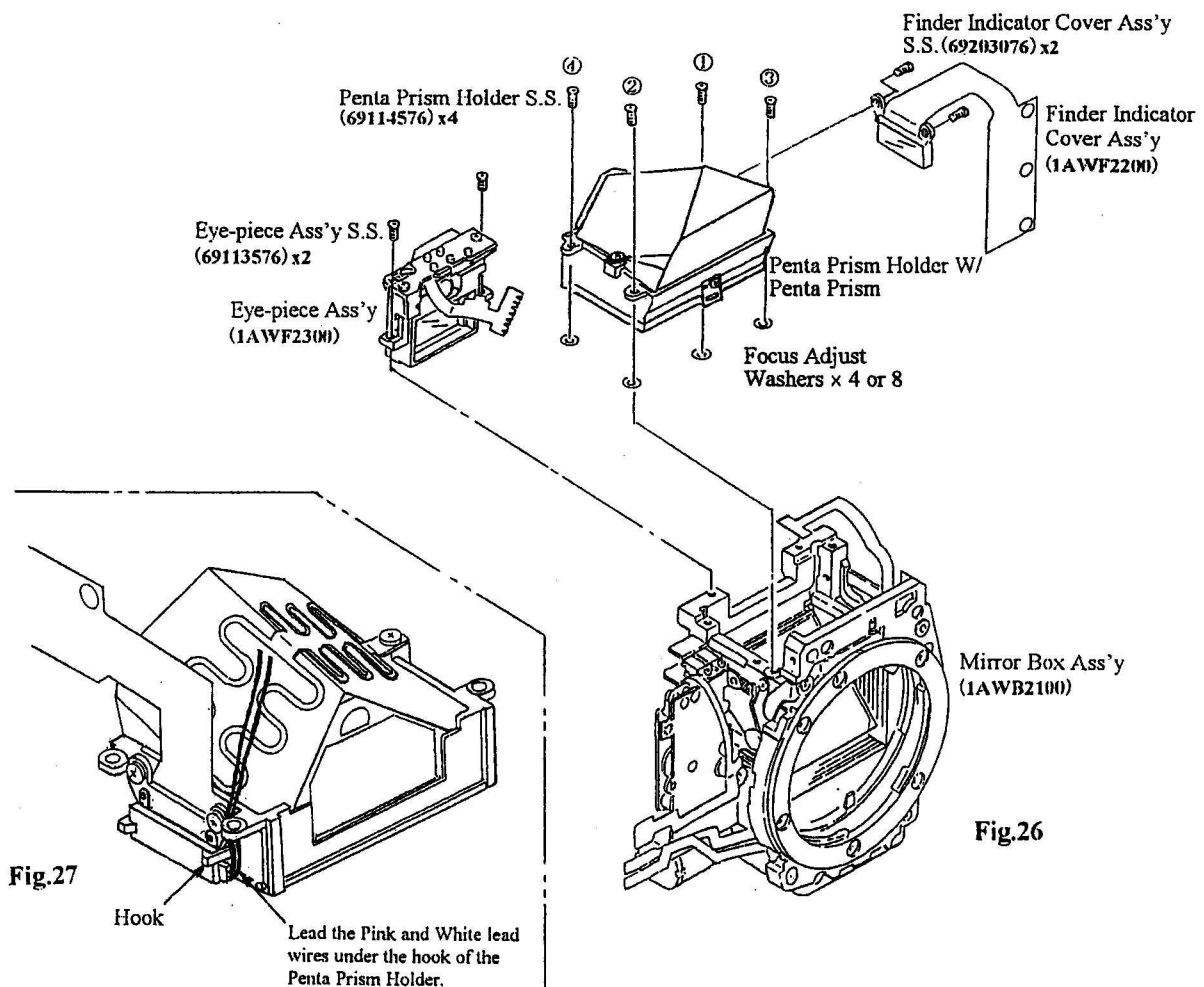
- The Focus Adjust Washers to be installed must be the exact washers that have been removed.
If faulty viewfinder focusing occurs, adjust viewfinder focusing by replacing these Focus Adjust Washers.
- Once the Finder Indicator Cover Ass'y (1AWF2200) has been removed, make the Adjustment of Viewfinder Indication Positions. (See page C-4)
- Take care not to flaw the LCD surface of the Finder Indicator Cover Ass'y.

[Note on Tightening of Penta Prism Holder Setscrews]

- a) Tighten the Penta Prism Holder Setscrews (69114576) × 4 in the order of ①, ②, ③ and ④. (See Fig. 26)

[Note on Reassembly of Finder Indicator Cover Ass'y]

- a) Lead the Pink and White lead wires of the Finder Indicator Cover Ass'y under the hook of the Penta Prism Holder. (See Fig. 27)



(See Fig. 28)

- 5) Remove the FC Unit Ass'y Setscrews (69113576), (61912026) × 3 and take off the FC Gear (1) (1AW64500) and FC Unit Ass'y (1AWB4000).
- 6) Remove the Open F. Stop Signal Base Plate Ass'y Setscrews (69103576) × 2 and take off the Open F. Stop Signal Base Plate Ass'y (1AWB3700).

Note :

- Once the Open F. Stop Signal Base Plate Ass'y (1AWB3700) has been removed, make the Open F. Stop Contact Position Adjustment. (See page C-2)
- 7) Remove the MS Base Plate Ass'y Setscrews (69113576) × 4 and take off the MS Base Plate Ass'y (1AWB3100).
 - 8) Remove the S. Release Lever Spring (1AW72400), Mirror Up Lever Spring (1AG71700) and S. Charge Lever Spring (1AM72700).
 - 9) Remove the M. Cam Gear (1AWB3000), S. Cam Gear (1AW75500), MS Gear (4) (1AM75100), Mirror Gear (3) (1AM1300) and Mirror Gear (2) (1AM71200).
 - 10) Remove the Mirror Down Spring (1AG71800), Mirror Up Lever (1AW76300) and S. Charge Lever (1AW76000).
 - 11) Remove the Aperture Lever Spring (1AW73300), Aperture Lever Spring Cover (1AW76900) and Aperture Lever Ass'y (1AWB2900).
 - 12) Remove the TTL Flash Auto IC Holder Ass'y Setscrews (69113576) × 2 and take off the TTL Flash Auto IC Holder Ass'y (1AWB2700).

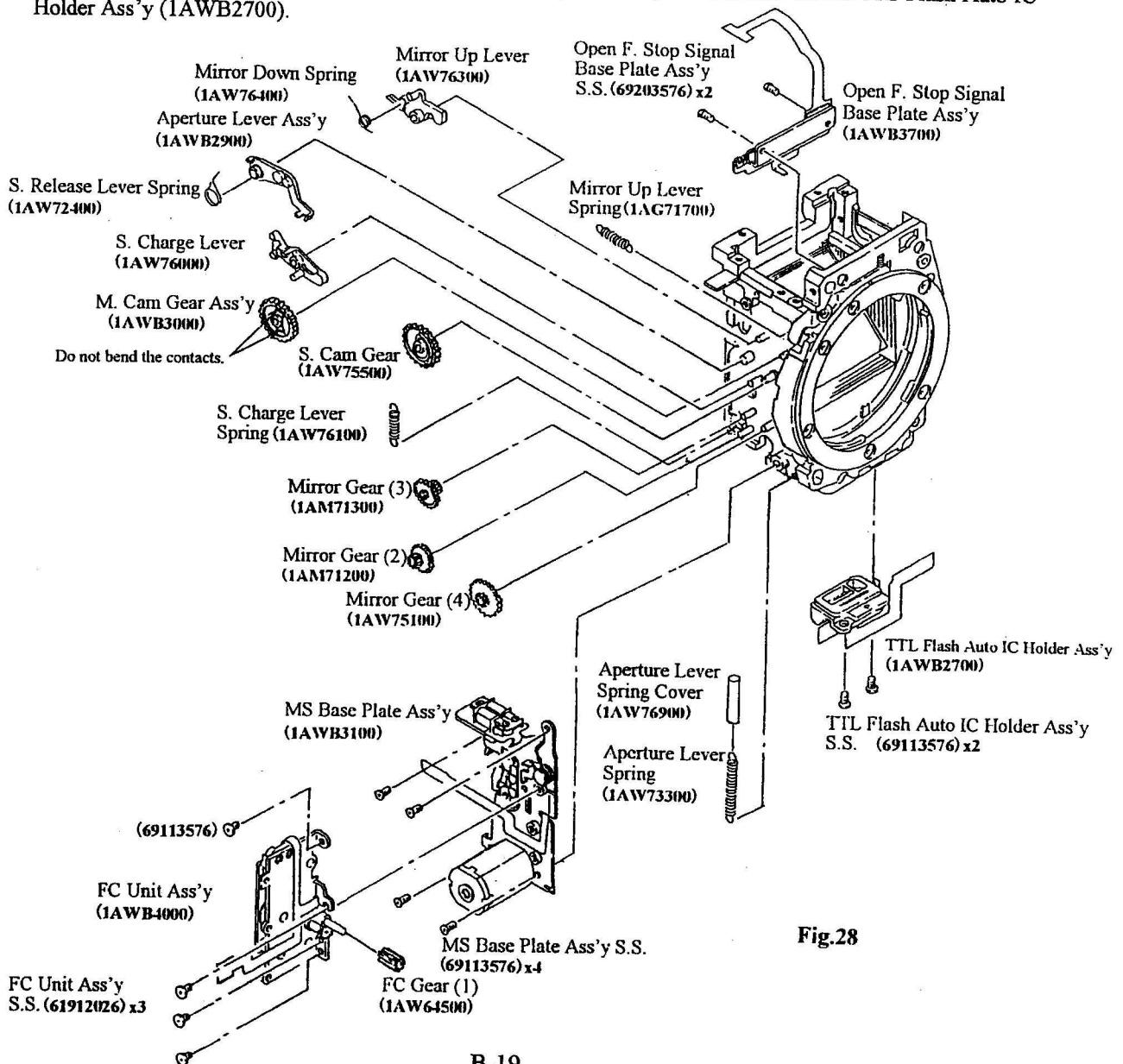


Fig.28

(See Fig. 29)

- 13) Remove the Body Mount Setscrews (66001254), (69125062) × 5 and take off the Body Mount (1AW70700) and Mount Spring (1AW70500).
- 14) Remove the Mount Stopper Setscrews (69113576) × 2 and take off the Mount Stopper (13981300).
- 15) Remove the Preview Switch Setscrew (69113076) and take off the Mount Lug Plate (1AW70800) and Preview Switch (1AA92900).
- 16) Peel off the Preview FPC (1AW50800).

Note :

- The Preview FPC is fixed with the FPC Stick Tape (2) (1AS56600).

- 17) Remove the Lens Lock Lever Setscrew (66001268) and take off the Lens Lock Lever (1AW71500) and Lens Lock Lever Spring (1AA78500).
- 18) Remove the Theta Base Plate Ass'y Setscrew (69113572) and take off the Conduction Auxiliary Plate (3CU16600) and Theta Base Plate Ass'y (1AWB2400).
- 19) Remove the AV Gear (L) Retainer Ass'y Setscrews (69113576) × 3 and take off the AV Gear (L) Retainer Ass'y (1AWB2300).
- 20) Remove the AV Spring (17476400).
- 21) Remove the Aperture Ring Holding Plate Ass'y Setscrews (69103576) × 4, (69113076) × 4 and take off the Aperture Ring Holding Plate Ass'y (1AWB2500).
- 22) Remove the AV Gear (L) Ass'y (1AWB2200).
- 23) Remove the AV Board Ass'y Setscrews (69112566) × 2 and AV Board Ass'y (1AWE2600).

Note :

- Once the AV Gear (L) Ass'y (1AWB2200) has been removed, make the Adjustment of AV Gear (L) Ass'y Position (Aperture Value). (See page C-3)

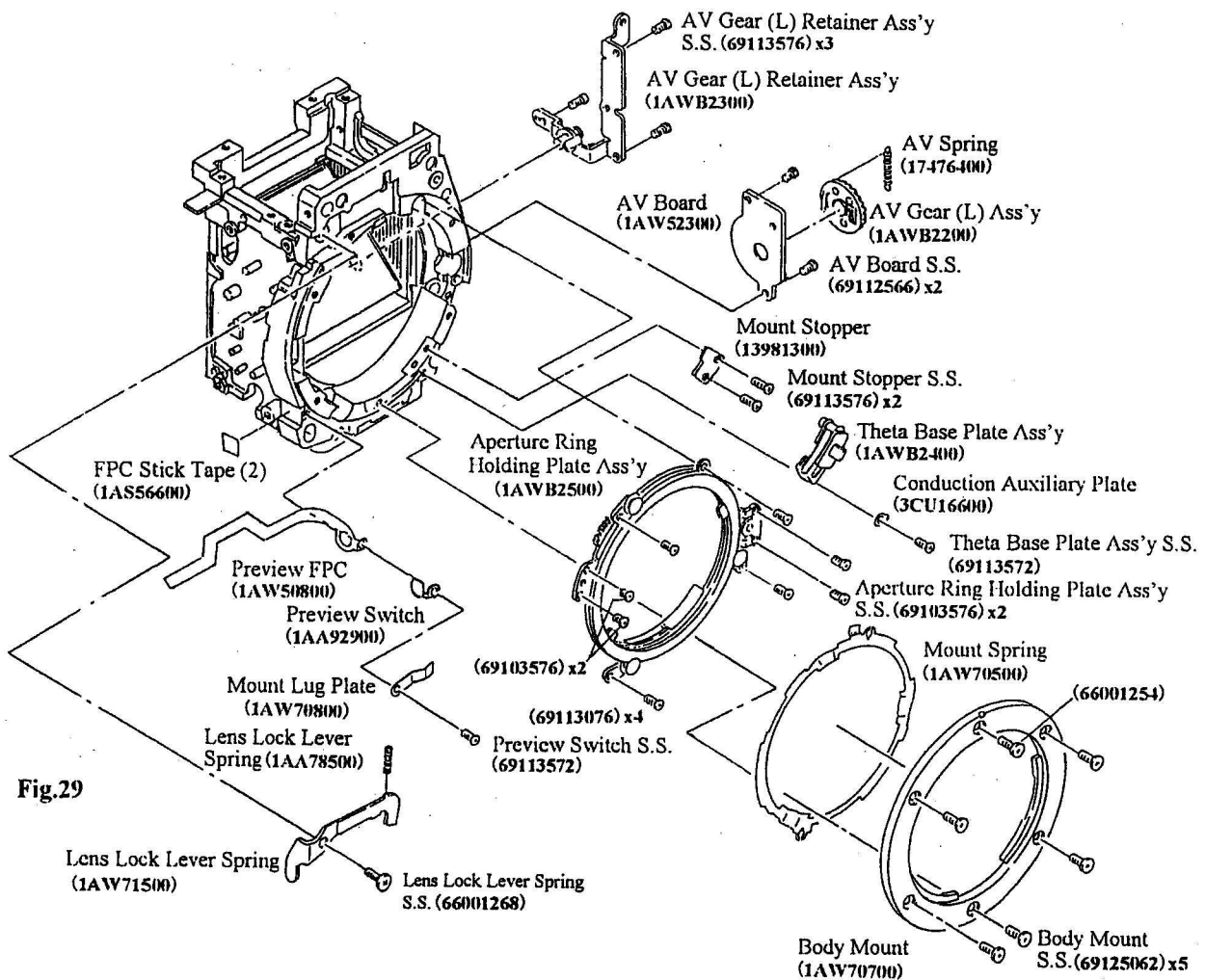
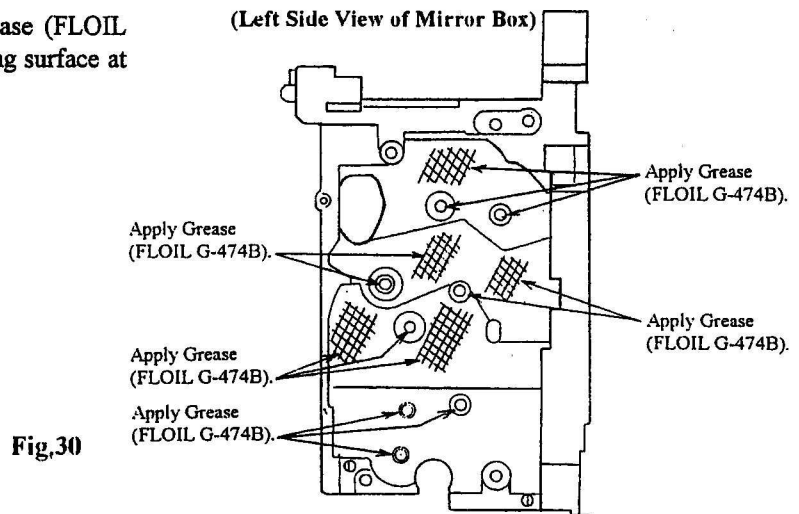


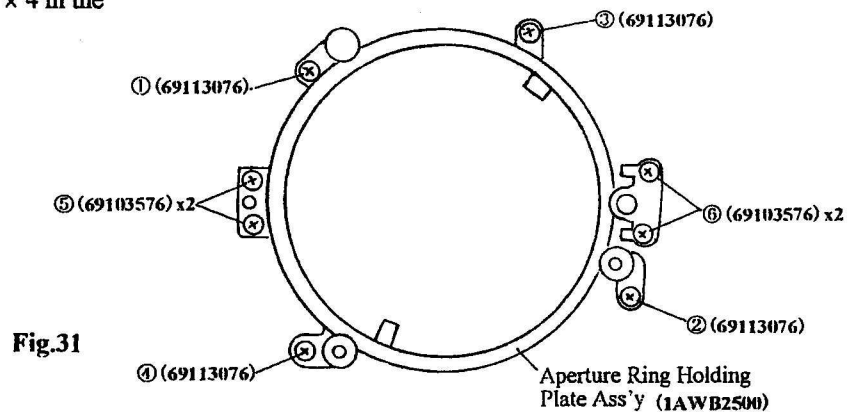
Fig.29

[Notes on Reassembly of Mirror Box]

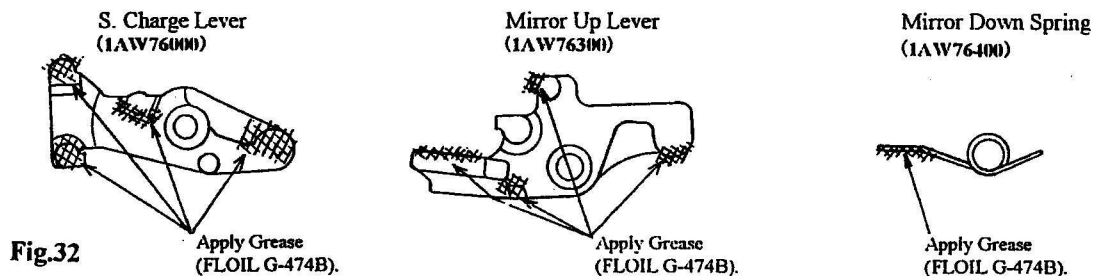
- a) As shown in Fig. 30, apply the Grease (FLOIL G-474B) to each gear shaft and sliding surface at the left side of the Mirror Box.



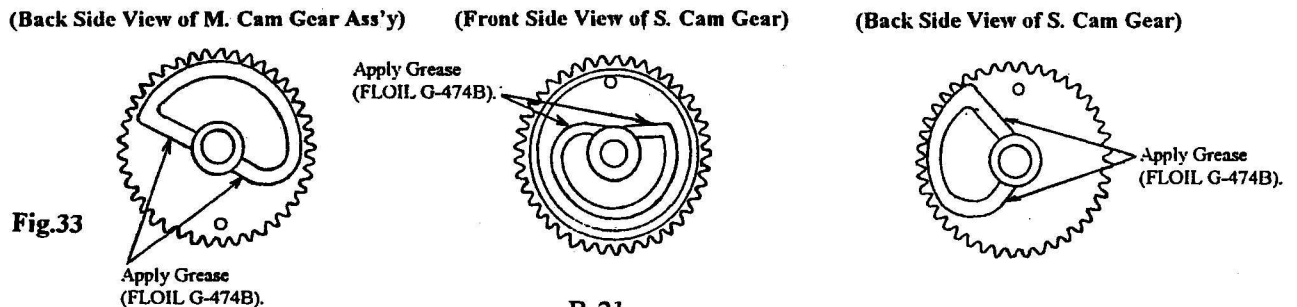
- b) Tighten the Aperture Ring Holding Plate Ass'y Setscrews (69113076) x 4, (69103576) x 4 in the order as shown in Fig. 31.



- c) Apply the Grease (FLOIL G-474B) to the S. Charge Lever (1AW76000), Mirror Up Lever (1AW76300) and Mirror Down Spring (1AW76400) as shown in Fig. 32.



- d) Apply the Grease (FLOIL G-474B) to the sliding surface of the cam on the back side of the M. Cam Gear Ass'y (1AWB3000) and the sliding surfaces of the cams on the front and back sides of the S. Cam Gear (1AW75500).



- e) Set the Mirror Down Spring (1AW76400) on the pin of the Mirror Frame.
- f) Set the S. Release Lever Spring (1AW72400) in a way as shown in Fig. 34.
- g) Install the Aperture Lever Ass'y (1AWB2900) in such a way that its end is positioned above the pin of the Aperture Ring Holding Plate Ass'y.
- h) Wipe the contacts of the M. Cam Gear Ass'y (1AWB3000) with lens cleaning paper with ether alcohol.
- i) Install the M. Cam Gear Ass'y (1AWB3000) and S. Cam Gear (1AW75500) so that their holes prepared as marks are in alignment with each other.
- j) Set the S. Charge Lever Spring (1AW76100) in an orientation as shown in Fig. 34.

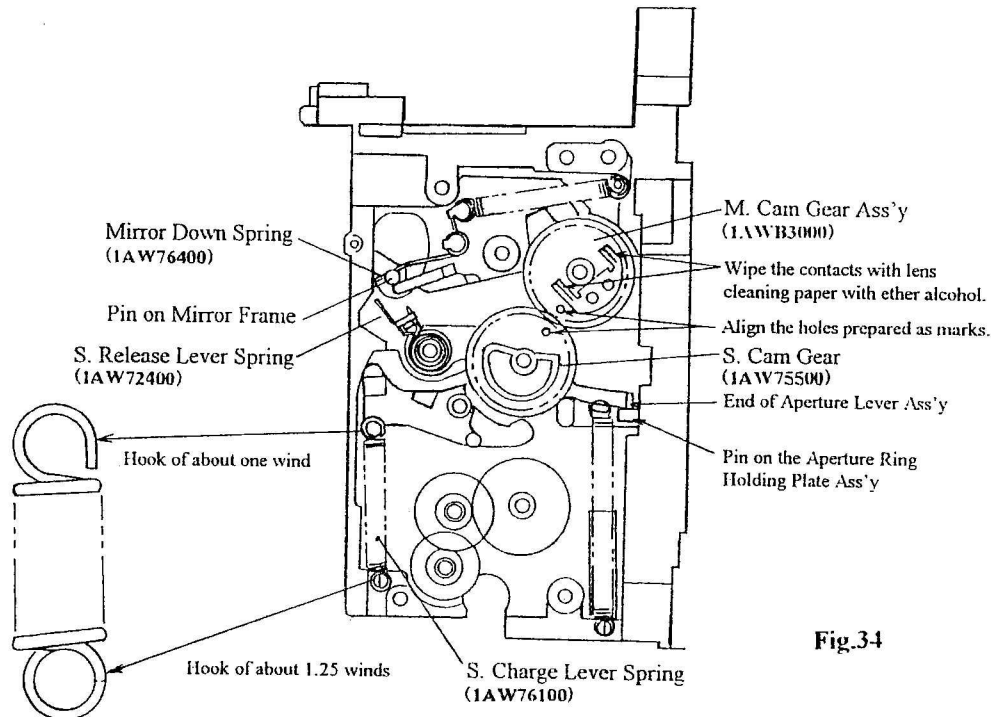


Fig.34

[Notes on Installation of MS Base Plate Ass'y]

- a) Turn the Aperture Ring in the aperture stop-down direction (in the direction of the arrow) and with it kept in this position, install the MS Base Plate Ass'y (1AWB3100) in the Mirror Box.
In doing so, the S. Release Lever Spring (1AW72400) must be in the position as shown in Fig. 35.
- b) Apply a small amount of the Grease (FLOIL G-474B) to part of the S. Release Lever that is engaged with the S. Release Lever Spring.

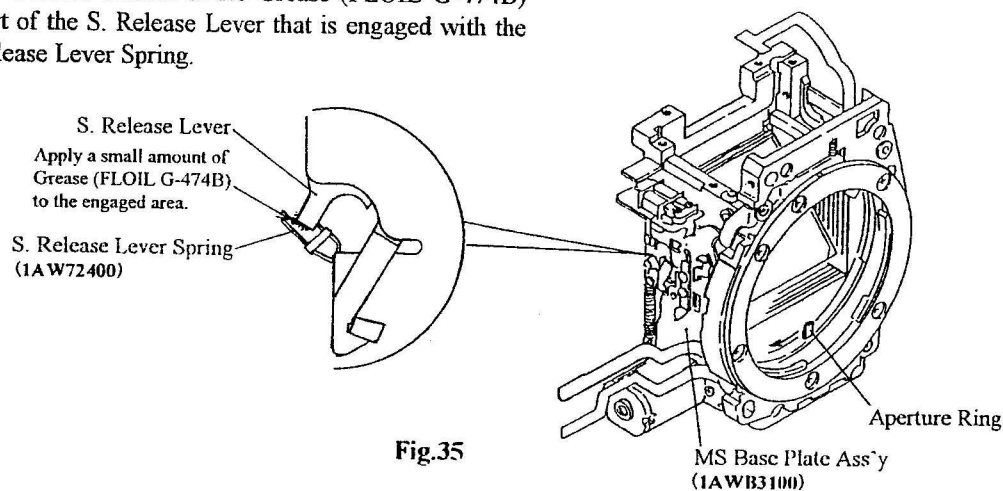


Fig.35

[Reassembly Procedure for FC Unit Ass'y]

(See Fig. 36)

- 1) Apply the Oil (DRYSURE A1007) to the shaft of the FC Unit Ass'y.
- 2) Install the FC Gear (1) (1AW64500) on the shaft of the FC Unit Ass'y.
- 3) Move the FC Lever in the direction of the arrow (A).
- 4) Turn the FC Gear (1) clockwise by about one turn.
After that, release the FC Gear (1) and make certain that the FC Gear (1) turns smoothly.
- 5) From the position where the FC Gear (1) is standing still, turn the FC Gear (1) clockwise by about one turn. In this state, move the FC Lever in the direction of the arrow (B) and lock the FC Slit Plate.
- 6) Turn the Aperture Ring of the Aperture Ring Holding Plate Ass'y in the aperture stop-down direction (in the direction of the arrow (C)). While keeping the Aperture Ring in this position, install the FC Unit Ass'y.
- 7) Tighten the FC Unit Ass'y Setscrews (61912026) × 3, (69113576).
Apply the bond (Cemedine 551) to the heads of the FC Unit Ass'y Setscrews.

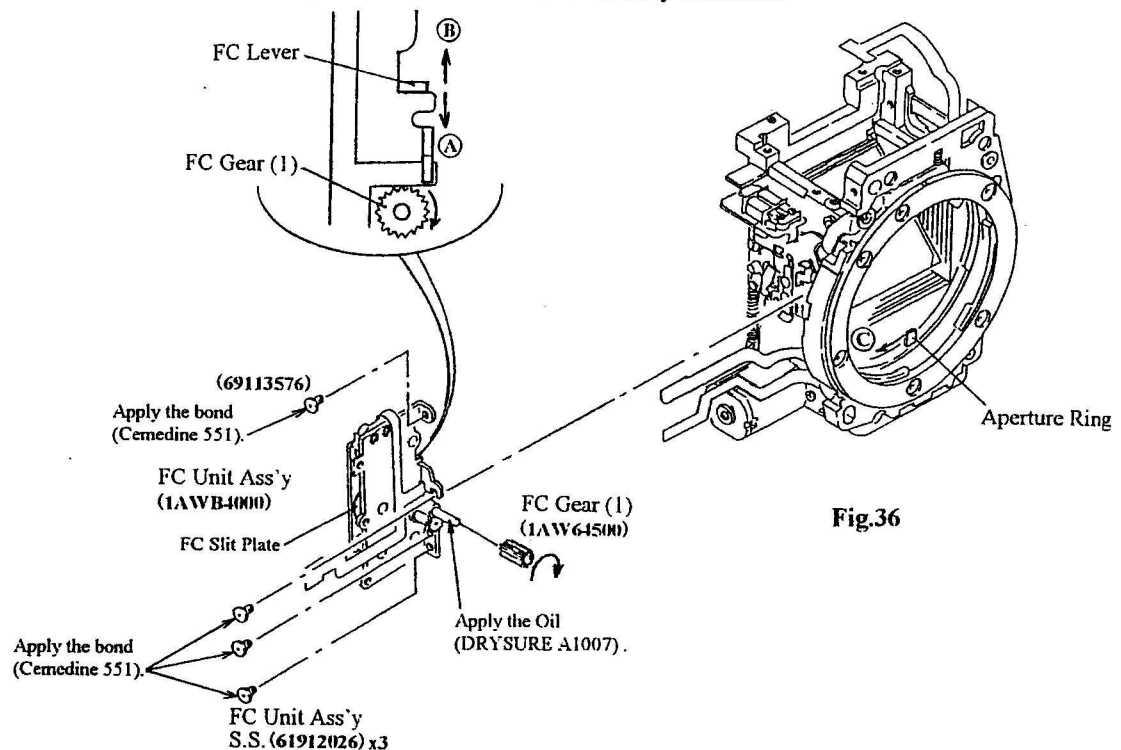


Fig.36

[Dressing of Lead Wires of Mirror Box]

- a) Before installing the Mirror Box in the Body, dress the lead wires coming from the AV Board and Theta Board as shown in Fig. 37.

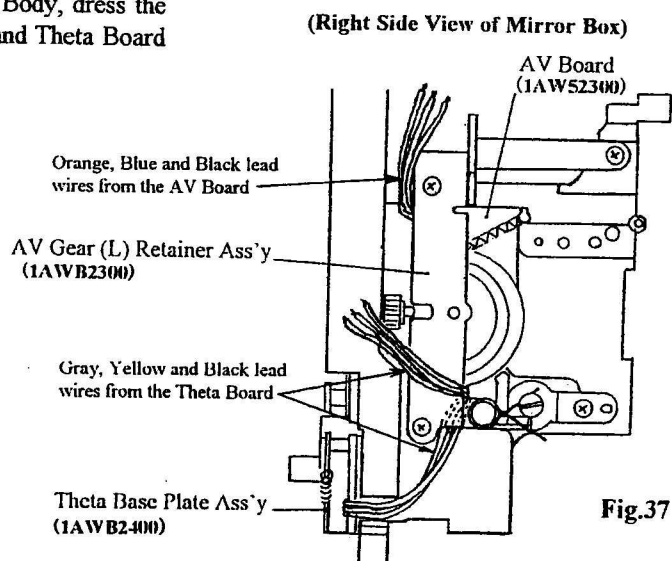


Fig.37

B-6-2. Disassembly of Penta Prism

Notes :

- Black shielder has been applied to the gap between the Penta Prism and the Penta Prism Holder to prevent dust from entering the Viewfinder. Therefore, remove the black shielder before removing the Penta Prism.
- Take care not to flaw the Penta Prism, Focusing Screen or Finder Indicator Prism.

- 1) Peel off the Penta Prism Cover (17484200).

Note :

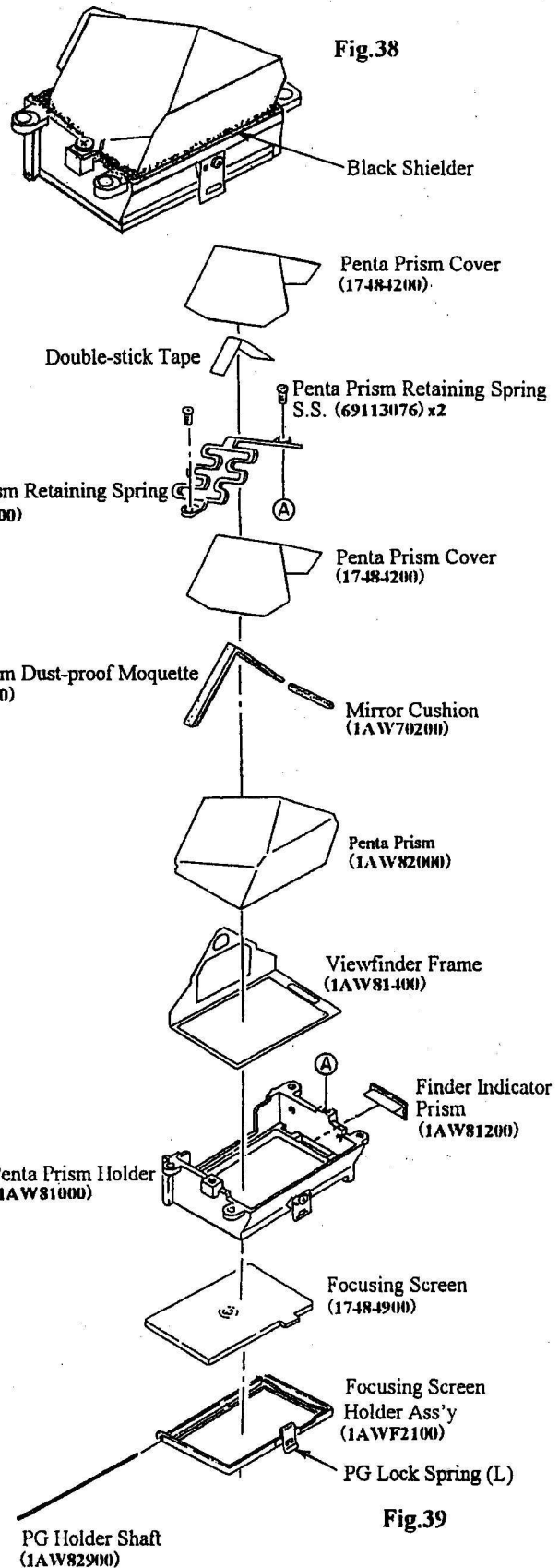
- The Penta Prism Cover is fixed to the Penta Prism Retaining Spring with double-stick tape.
- 2) Pick off the black shielder applied around the Penta Prism, using tweezers or the like.
 - 3) Peel off the Mirror Cushion (1AW70200) and Penta Prism Dust-proof Moquette (1AH85000).
 - 4) Push the end of the PG Lock Spring (L) and remove the Focusing Screen.
 - 5) Pull out the PG Holder Shaft (1AW82900) and remove the Focusing Screen Holder Ass'y (1AWF2100).
 - 6) Remove the Penta Prism Retaining Spring Setscrews (69113076) × 2 and take off the Penta Prism Retaining Spring (1AW82300).
 - 7) Remove the Penta Prism Cover (17484200), Penta Prism (1AW82000) and Viewfinder Frame (1AW81400).
 - 8) Remove the Finder Indicator Prism (1AW81200).

Note :

- The Finder Indicator Prism is fixed to the Penta Prism Holder (1AW81000) with the bond (Cemedine 551).

[Notes after Installation of Penta Prism]

- a) After the installation of the Penta Prism, make certain that there is no dust in the Viewfinder.
- b) After the installation of the Penta Prism, apply the black shielder to the gap between the Penta Prism and the Penta Prism Holder.



B-6-3. Disassembly of Top Cover Ass'y

Notes :

- Take care not to bend or deform the switch contacts which are incorporated inside the Top Cover Ass'y.
- After installing the switch contacts, wipe them with lens cleaning paper with ether alcohol.
- In repair, take care not to lose any of the six Steel Balls which are incorporated in the Top Cover Ass'y.
- After tightening the Setscrews, apply the bond (Cemedine 551) to their heads.

[Chart for Disassembly of Top Cover Ass'y]

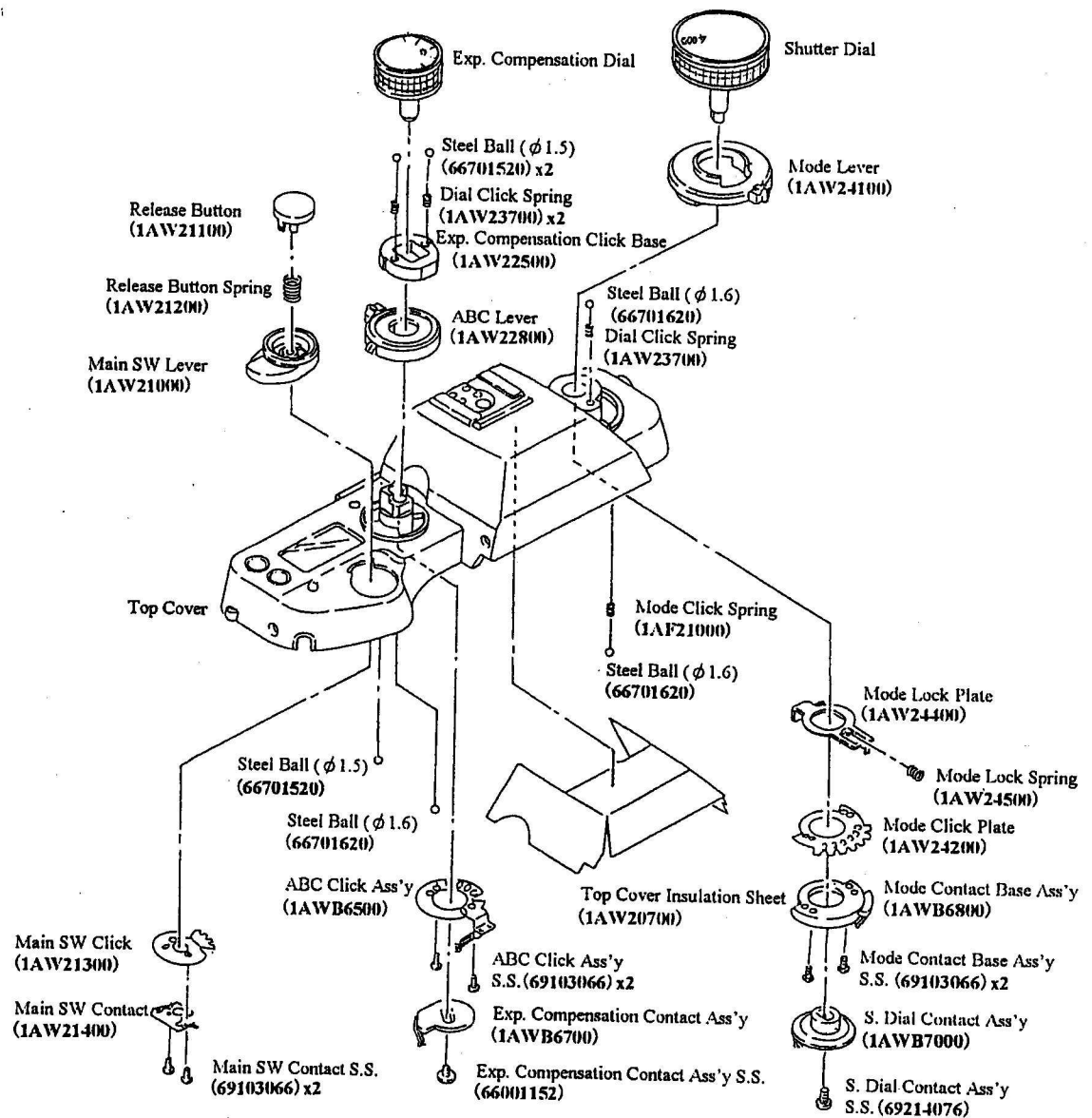


Fig.40

(See Fig. 40)

- 1) Peel off the Top Cover Insulation Sheet (1AW20700).

Note :

- The Top Cover Insulation Sheet is fixed to the Top Cover with the bond (Cemedine 551).

- 2) Remove the S. Dial Contact Ass'y Setscrew (69224076) and take off the S. Dial Contact Ass'y (1AWB7000), Shutter Dial, Steel Ball ($\phi 1.6$) (66701620) and Dial Click Spring (1AW23700).
- 3) Remove the Mode Contact Base Ass'y Setscrews (69103066) $\times 2$ and take off the Mode Contact Base Ass'y (1AWB6800), Mode Click Plate (1AW24200), Steel Ball ($\phi 1.6$) (66701620), Mode Click Spring (1AF21000) and Mode Lever (1AW24100).
- 4) Remove the Mode Lock Spring (1AW24500) and Mode Lock Plate (1AW24400).
- 5) Remove the Exp. Compensation Contact Ass'y Setscrew (66001152) and take off the Exp. Compensation Contact Ass'y (1AWB6700), Exp. Compensation Dial, Steel Balls ($\phi 1.5$) (66701520) $\times 2$, Dial Click Springs (1AW23700) $\times 2$, and Exp. Compensation Click Base (1AW22500).

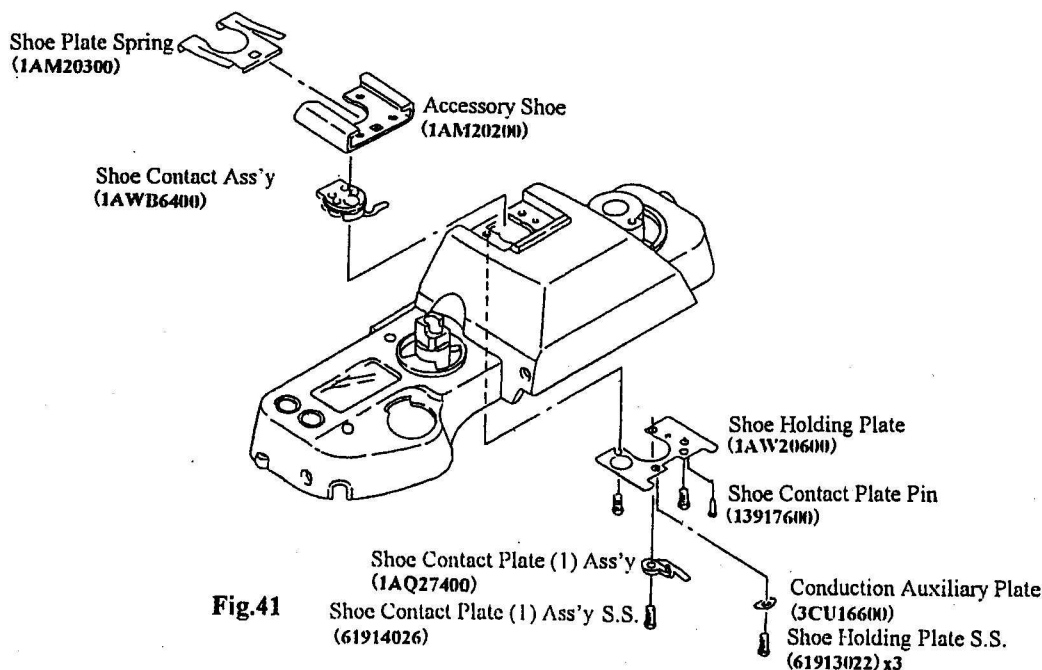
Note :

- Install the Exp. Compensation Click Base with care not to mistake the orientation.

- 6) Remove the ABC Click Ass'y Setscrews (69103066) $\times 2$ and take off the ABC Click Ass'y (1AWB6500), Steel Ball ($\phi 1.6$) (66701620) and ABC Lever (1AW22800).
- 7) Remove the Main SW Contact Setscrews (69103066) $\times 2$ and take off the Main SW Contact (1AW21400), Main SW Click (1AW21300), Steel Ball ($\phi 1.5$) (66701520), Release Button (1AW21100), Release Button Spring (1AW21200) and Main SW Lever (1AW21000).
(See Fig. 41)
- 8) Remove the Shoe Contact Plate (1) Ass'y Setscrew (61914026) and take off the Shoe Contact Plate (1) Ass'y (1AQ27400).
- 9) Remove the Shoe Holding Plate Setscrew (61913022) and take off the Conduction Auxiliary Plate (3CU16600).
- 10) Shoe Holding Plate Setscrews (61913022) $\times 2$ and take off the Accessory Shoe (1AM20200) W/ Shoe Plate Spring (1AM20300), Shoe Contact Ass'y (1AWB6400), Shoe Contact Plate Pin (13917600) and Shoe Holding Plate (1AW20600).

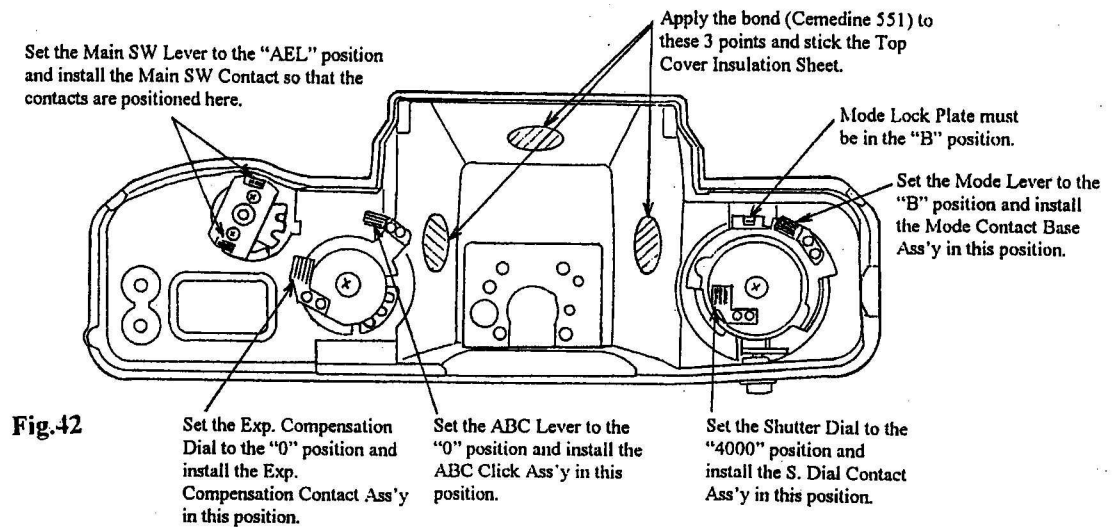
Note :

- The Shoe Plate Spring (1AM20300) is fixed to the Accessory Shoe (1AM20200) with the bond (Cemedine 551).



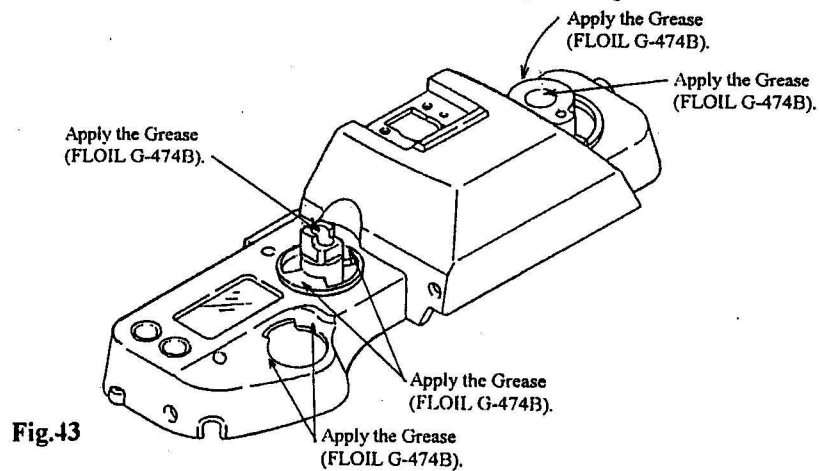
[Notes on Reassembly of Top Cover]

* Install the switch contacts of the Top Cover in the positions as shown in Fig. 42.

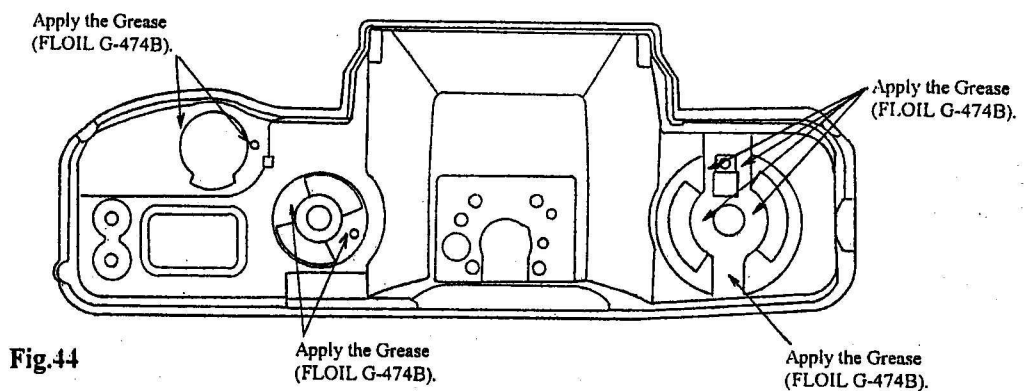


[Chart for Greasing Points of Top Cover]

* As shown in Fig. 43, apply the Grease (FLOIL G-474B) to the specified points outside the Top Cover.



* As shown in Fig. 44, apply the Grease (FLOIL G-474B) to the specified points inside the Top Cover.



[Reassembly Procedure for Exp. Compensation Dial]

- 1) Stick the Exp. Compensation Click Tape (1AW2 2700) on the burr side of the Exp. Compensation Click Plate (1AW22300) by aligning their centers.
- 2) Peel off the backing paper of the Exp. Compensation Click Tape and align the oval-shaped post of the Exp. Compensation Dial (1AW22000) with the oval hole in the Exp. Compensation Click Plate. Then while fitting the convex portion of the Exp. Compensation Dial into the concave portion in the Exp. Compensation Click Plate, stick these two parts together and press them against each other gently.
- 3) Fix the Exp. Compensation Dial and Exp. Compensation Click Plate to each other by applying the bond (Cemedine 551).
- 4) Apply the bond (Cemedine 551) to the whole periphery of the stepped central area on the top side of the Exp. Compensation Dial and to the cross-shaped surface.
- 5) While fitting the concave portion of the Exp. Compensation Dial onto the convex portion of the Exp. Compensation Name Plate (1AW21900), stick these two parts together and press them against each other gently.
- 6) Set the Exp. Compensation Dial Cover (1AW2200) on the Exp. Compensation Dial.

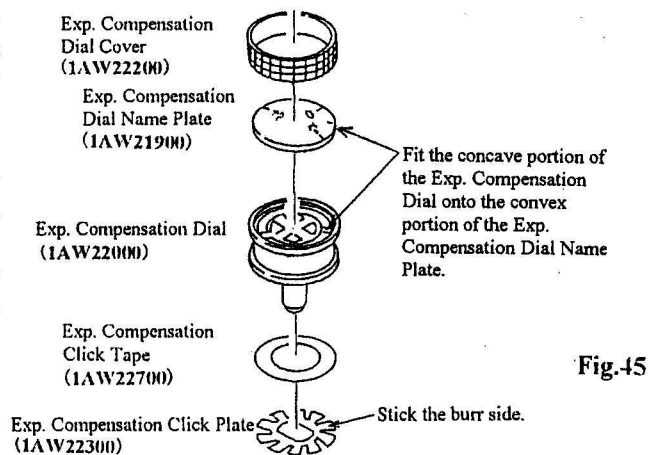


Fig.45

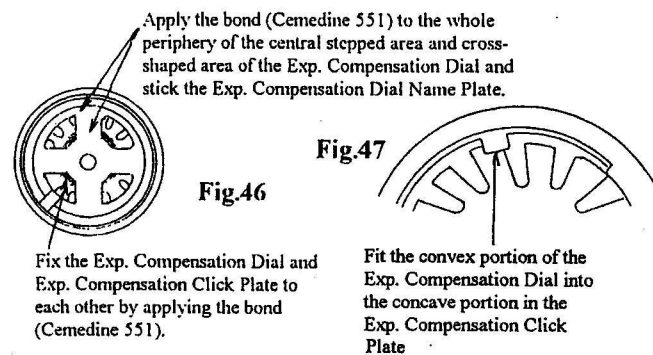


Fig.46

Fig.47

[Reassembly Procedure for Shutter Dial]

- 1) Stick the Exp. Compensation Click Tape (1AW2 2700) on the burr side of the Shutter Dial Click Plate (1AW23600) by aligning their centers.
- 2) Peel off the backing paper of the Exp. Compensation Click Tape and while fitting the convex portion of the Shutter Dial (1AW23300) into the concave portion in the Shutter Dial Click Plate, stick these two parts together and press them against each other gently.
- 3) Fix the Shutter Dial and Shutter Dial Click Plate to each other by applying the bond (Cemedine 551).
- 4) Apply the bond (Cemedine 551) to the whole periphery of the stepped central area on the top side of the Shutter Dial and to the cross-shaped surface.
- 5) While fitting the concave portion of the Shutter Dial onto the convex portion of the Shutter Dial Name Plate (1AW23200), stick these two parts together and press them against each other gently.
- 6) Set the Shutter Dial Cover (1AW23500) on the Shutter Dial.

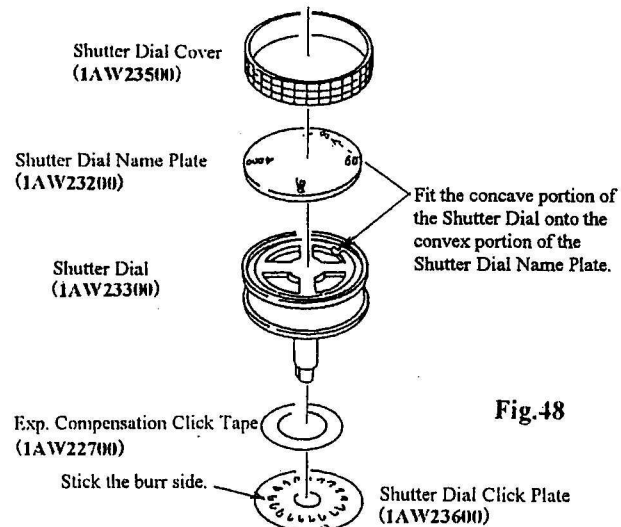


Fig.48

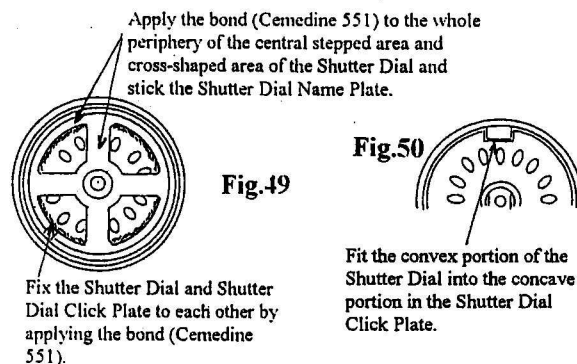


Fig.49

Fig.50

B-7. DISASSEMBLY OF BACK COVER ASS'Y

[Chart for Disassembly of Back Cover Ass'y]

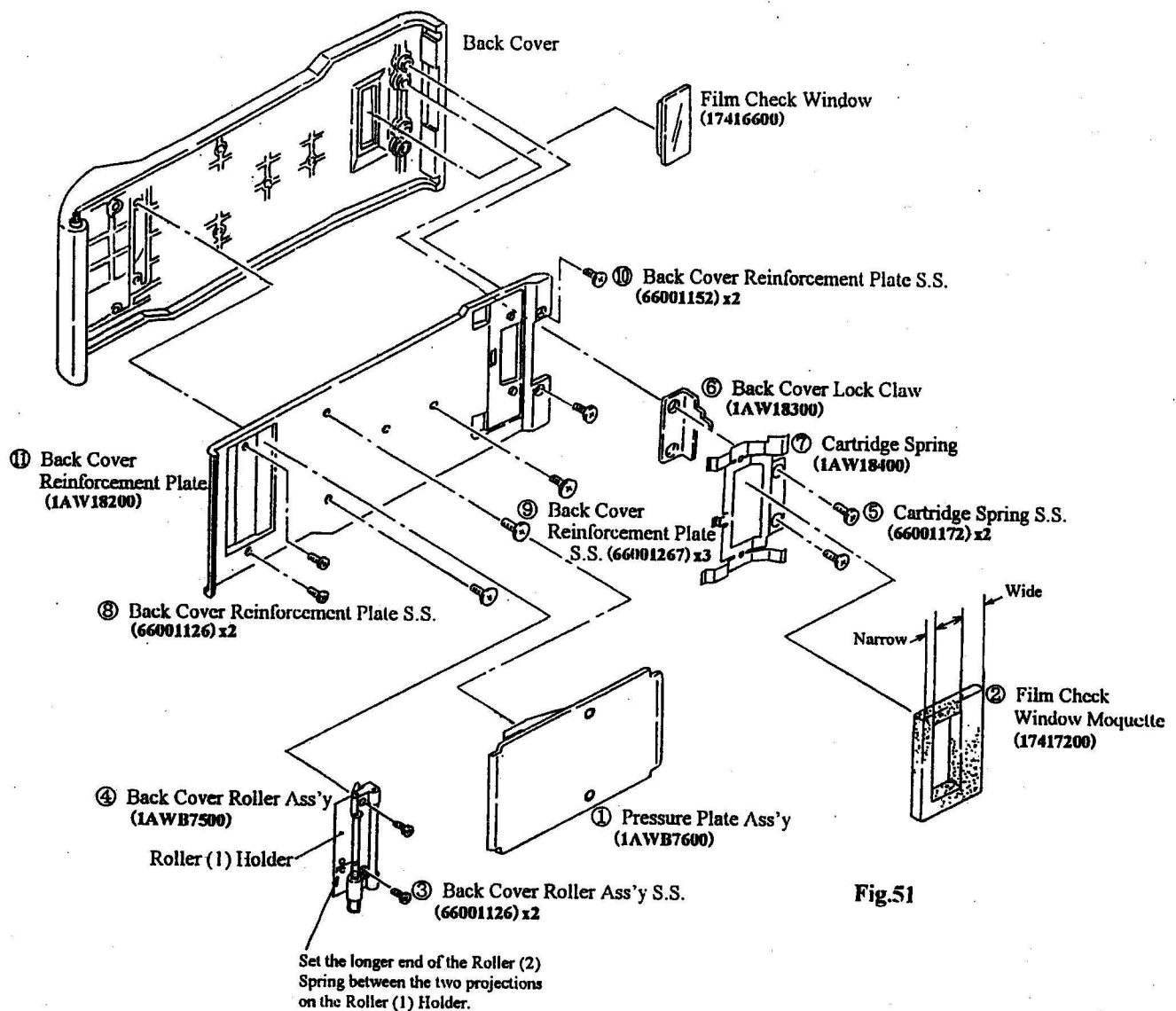


Fig.51

B-7-1. Disassembly of Back Cover Ass'y

- 1) Remove the parts in the order of ① to ⑪ shown in Fig. 51.

[Notes on Reassembly of Back Cover Ass'y]

- a) Do not use the Film Check Window Moquette (17417200) that has been peeled off once.
- b) Stick the Film Check Window Moquette (17417200) in the position as shown in Fig. 51.
- c) Set the longer end of the Roller (2) Spring between the two projections on the Roller (1) Holder.
- d) The Film Check Window (17416600) is fixed with the bond (Cemedine 551). Usually, there is no need of removing the Film Check Window.

B-8. DISASSEMBLY OF DATA BACK ASS'Y

[Chart for Disassembly of Data Back Ass'y]

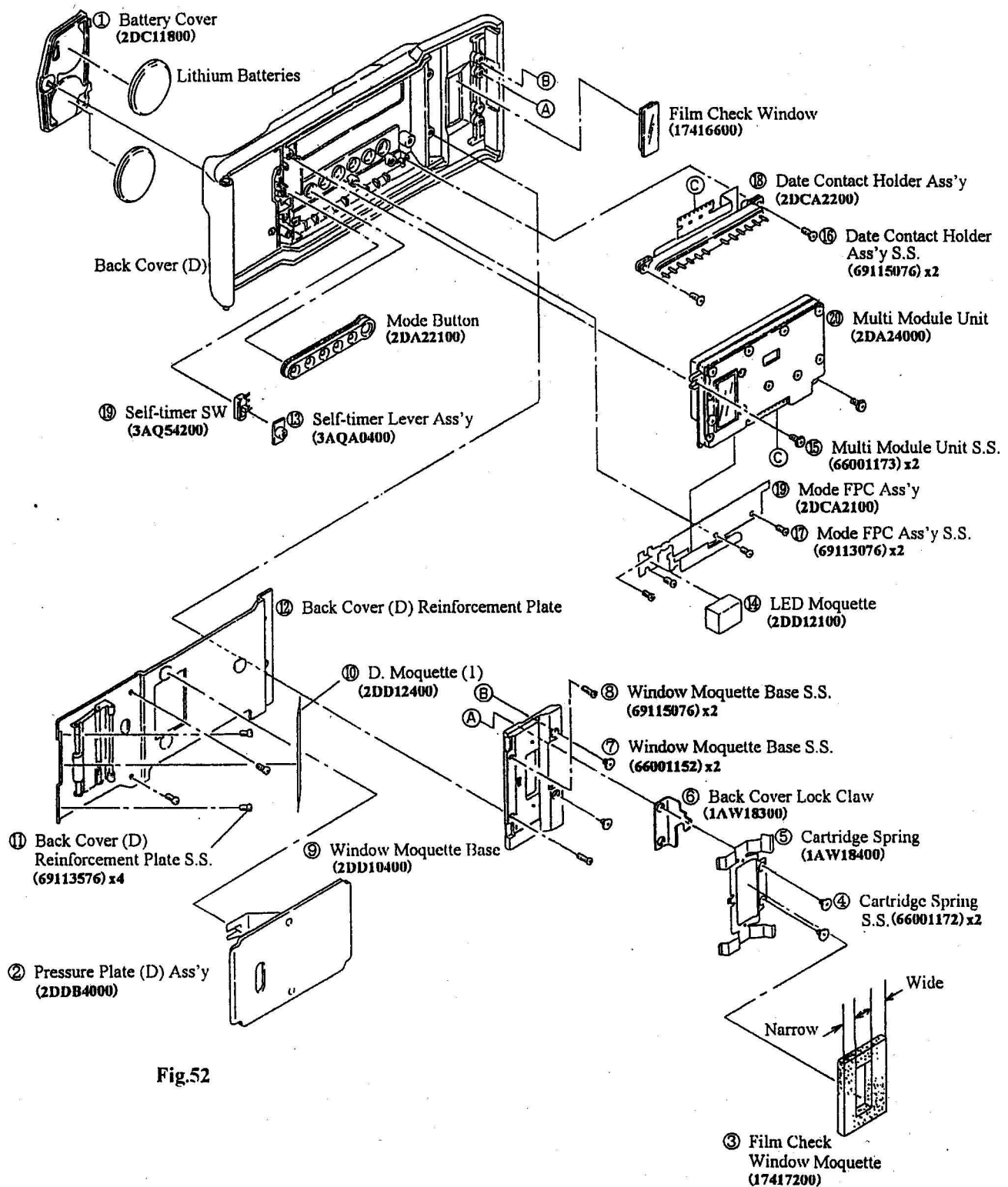


Fig.52

B-8-1. Removal of Multi Module Unit

- 1) Remove the parts in the order of ① to ⑳ shown in Fig. 52.
- 2) Unsolder the Red and Black lead wires (from Battery Contact) on the Multi Module Unit. (See Fig. 59)

[Notes on Reassembly of Back Cover Ass'y]

- a) Do not use the Film Check Window Moquette (17417200) that has been peeled off once.
- b) Stick the Film Check Window Moquette (17417200) in the position as shown in Fig. 52.
- c) Set the longer end of the Roller (2) Spring between the two prongs of the fork on the Roller (1) Holder. (See Fig. 53)
- d) The Film Check Window (17416600) is fixed with the bond (Cemedine 551). Usually, there is no need of removing the Film Check Window.
- e) Once the Multi Module Unit (2DA24000) has been removed, make the adjustment of imprinting position.

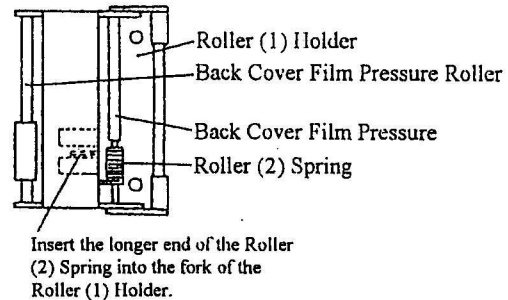


Fig.53

B-8-2. Reassembly of Back Cover (D)

(See Fig. 55)

- 1) Apply the bond (Cemedine 551) to the Back Cover (D) and install the Mode Button Cover MGs (2DA22500) × 2.
- 2) Install the M. Indication Window (2DA22600) and from inside the Back Cover (D), apply the bond (Cemedine 551) to the peripheral side face of the M. Indication Window to secure it.
- 3) Install the Back Cover Caps (2DA21800) × 2 and secure them by applying the bond (Cemedine 551).
- 4) Install the Battery Cap Screw Socket (2DB11200) and secure it by applying the bond (Cemedine 551) to its periphery. After that, stick the D. Rubber (2) (2DC10400).
- 5) Install the Battery Contact Holder Ass'y (2DDB1100) and tighten the Battery Contact Holder Ass'y Setscrews (69113576) × 3.

Note :

- Take care that the bond (Cemedine 551) does not come out around.

- 6) Install the Mode Button Cover Spring (2DA22400) and Mode Button Cover Shafts (2DA22300) × 2 in the Mode Button Cover (2DD10600) and install the resultant assembly in the Back Cover (D).

Notes :

- Make certain that the necks of the Mode Button Cover Shafts are positioned as shown in Fig. 54.
- Secure the Back Cover Panel (2DD10500) by applying the bond (THREE BOND #1549) after completion of installing all the other parts of the Back Cover (D).

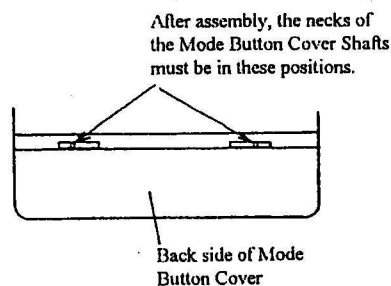


Fig.54

[Chart for Reassembly of Back Cover (D)]

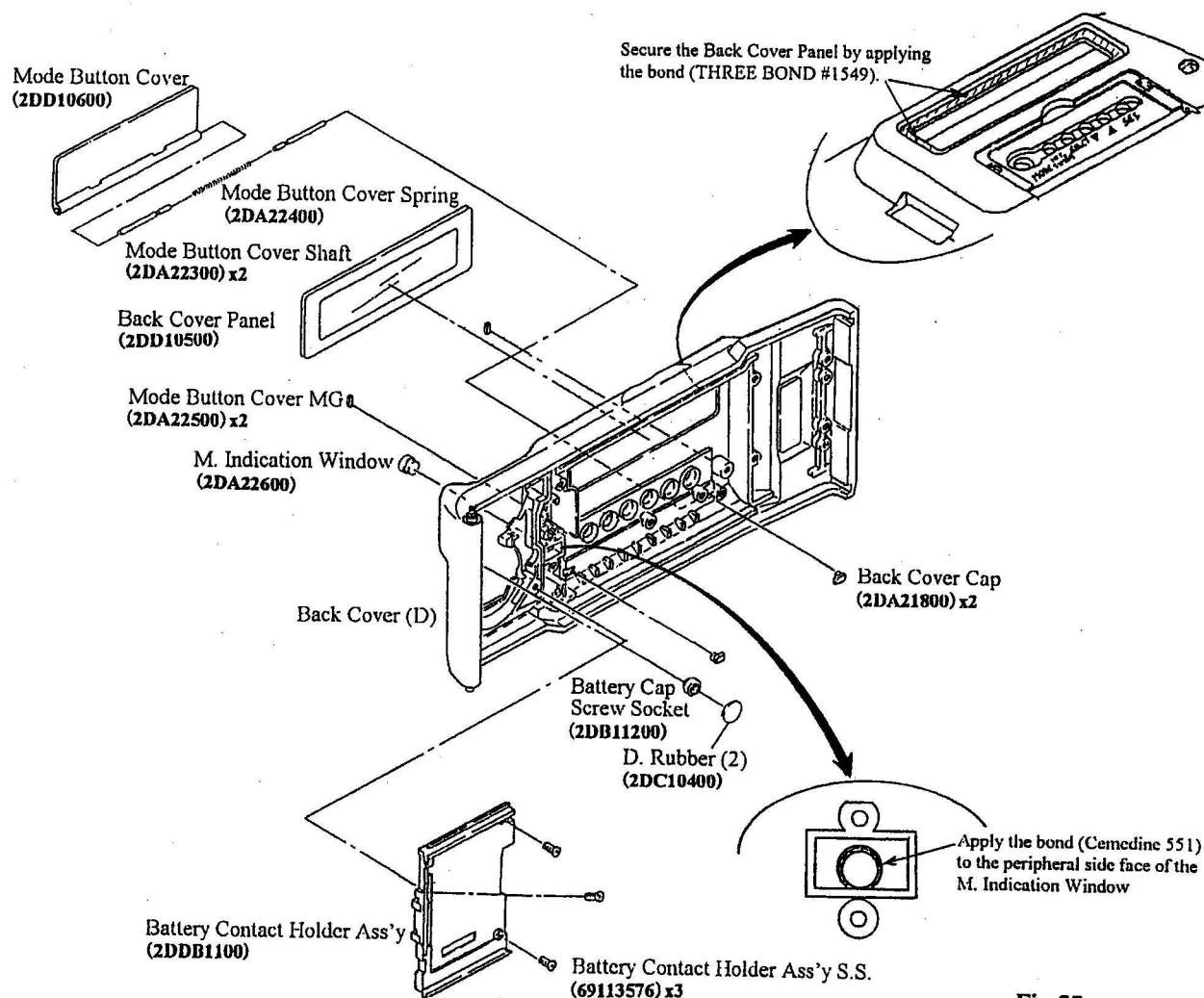


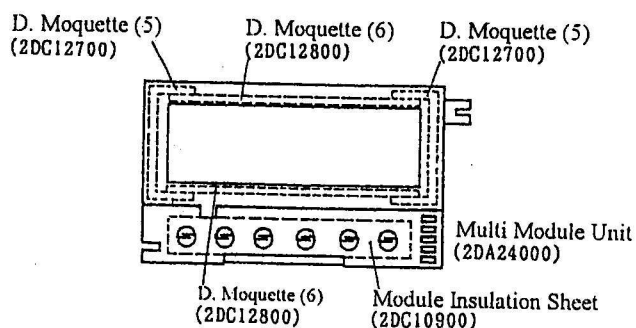
Fig.55

B-8-3. Reassembly of Multi Module Unit

- 1) Stick the Module Insulation Sheet (2DC10900) on the Multi Module Unit (2DA24000).
- 2) Stick the D. Moquettes (5) (2DC12700) x 2 and D. Moquettes (6) (2DC12800) x 2.
- 3) Solder the Mode FPC (2DC12400) to the Multi Module Unit (6 points).

Note :

- Do not solder the first to third soldering lands from the left on the Multi Module Unit, since they are free lands.
- 4) Solder the Body Connect FPC of the Date Contact Holder Ass'y (2DCA2200) to the Multi Module Unit (11 points).
 - 5) Solder the Gray lead wire coming from the Date Contact Holder Ass'y to the land on the Mode FPC.



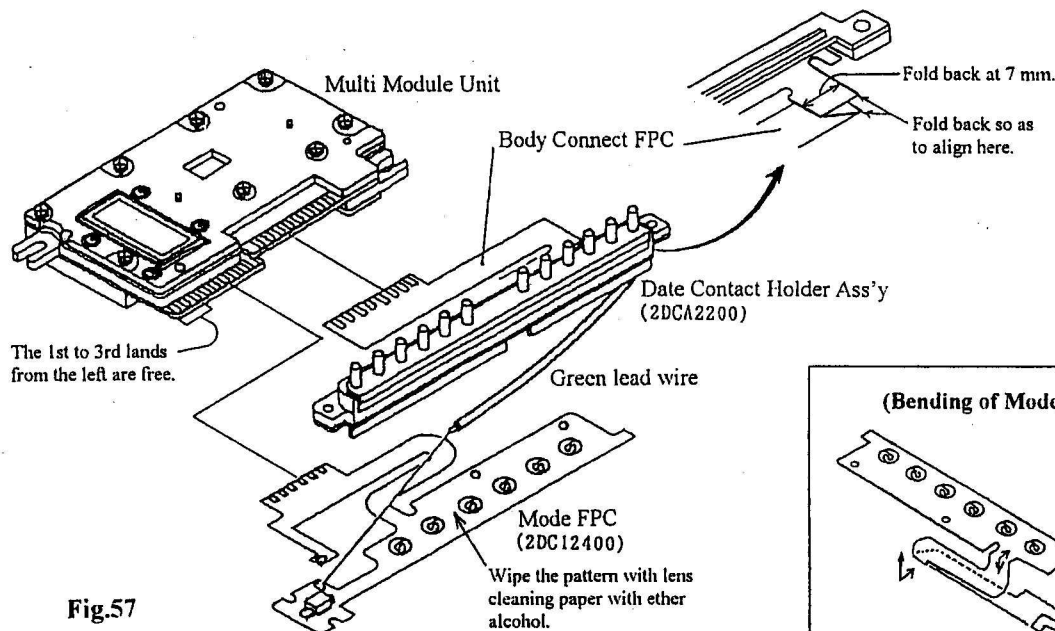


Fig.57

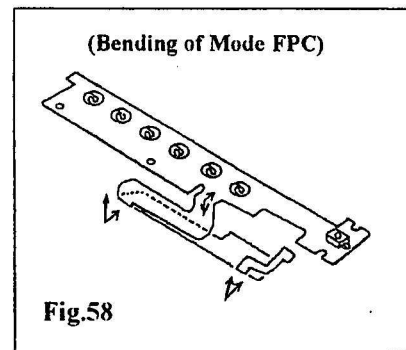


Fig.58

- 6) Solder the Black lead wire (from Battery Contact (-)) to the land on the Mode FPC.
- 7) Solder the Mode FPC to the Multi Module Unit (1 point).
- 8) Solder the Red lead wire (from Battery Contact (+)) to the land on the Mode FPC.

Note :

- Do not solder the center soldering land on the Multi Module Unit, since it is a free land.

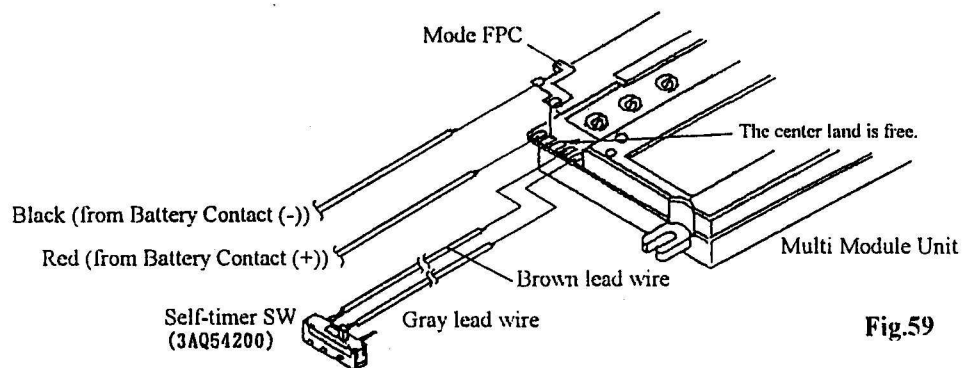


Fig.59

B-8-4. Installation of Multi Module Unit on Back Cover (D)

(See Fig. 52)

- 1) Set the Mode Button (2DA22110) in the Back Cover (D).
- 2) Wipe the pattern on the Mode FPC with lens cleaning paper with ether alcohol. (See Fig. 57)
Install the Mode FPC and tighten the Mode FPC Setscrews (69113576) × 4.
- 3) Install the Date Contact Holder Ass'y (2DCA2200) and tighten the Date Contact Holder Ass'y Setscrews (69115076) × 2.
- 4) Dress the Mode FPC and Body Connect FPC as shown in Fig. 59.
- 5) Install the Multi Module Unit (2DA22400) and tighten the Multi Module Unit Setscrews (66001173) × 2 temporarily.
- 6) Adjust the imprinting position by moving the Multi Module Unit right or left.

- 7) Tighten up the Multi Module Unit Setscrews (66001173) × 2. Apply the bond (Cemedine 551) to the heads of the Multi Module Unit Setscrews.
- 8) Install the Self-timer Switch (3AQ54200) and Self-timer Lever Ass'y (3AQ40400).
- 9) Stick the LED Moquette (2DD12100) on the Main FPC.

Notes :

- Install the Self-timer Lever Ass'y(3AQ40400) so that its red mark is positioned up.
- Dress the Red and Black lead wires (from Battery Contacts) without crossing them over the Battery Contact Holder.

[Chart for Forming of Mode FPC and Body Connect FPC]

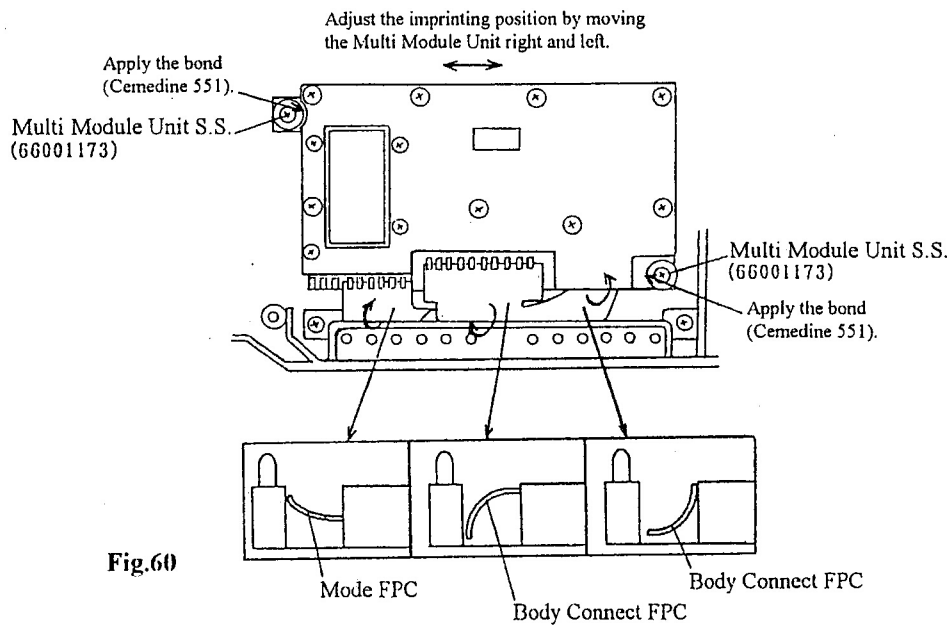


Fig.60

[Chart for Greasing Points on Film Pressure Rollers]

- * Apply the Grease (FLOIL G-474B) to both ends of each of the Back Cover Roller (1) (1AA16300), Back Cover Film Pressure (1AQ19700) and Back Cover Film Pressure Roller (1AA16800).

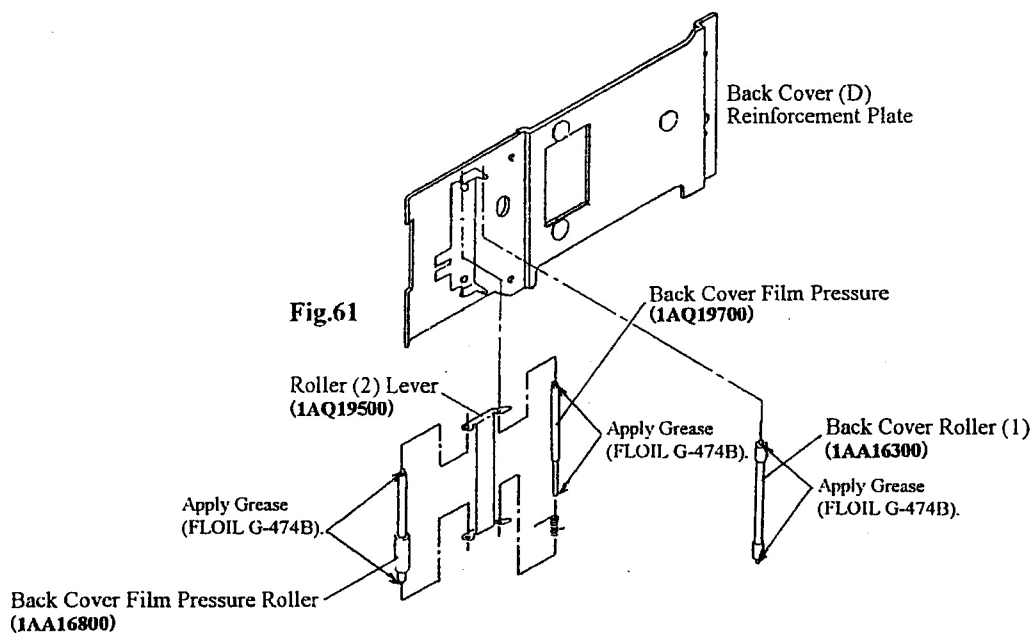


Fig.61

■ PARTS MODIFICATION LIST

[1] Modification of Main FPC Ass'y

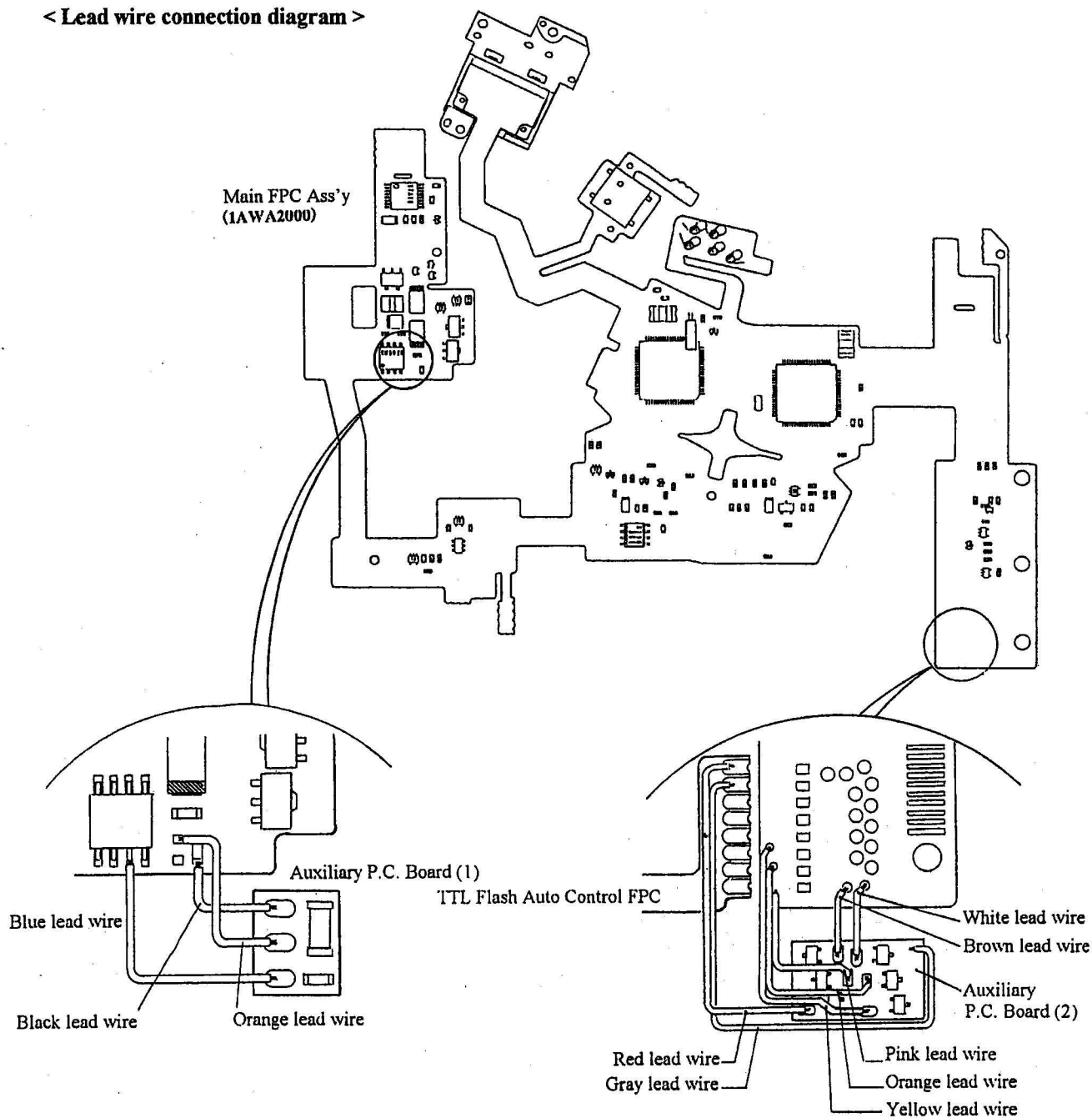
In this camera, two types of Main FPC Ass'y have been used in the course of improving the product quality. This service manual describes the new type Main FPC Ass'y. Follow the repair procedures described below to repair the old type Main FPC Ass'y.

< Auxiliary P.C. Boards >

In initial products, the Auxiliary P.C. Board (1) and Auxiliary P.C. Board (2) are incorporated to improve the product quality.

The new type Main FPC Ass'y has been improved so that the Auxiliary P.C. Board (1) and Auxiliary P.C. Board (2) are disused.

< Lead wire connection diagram >

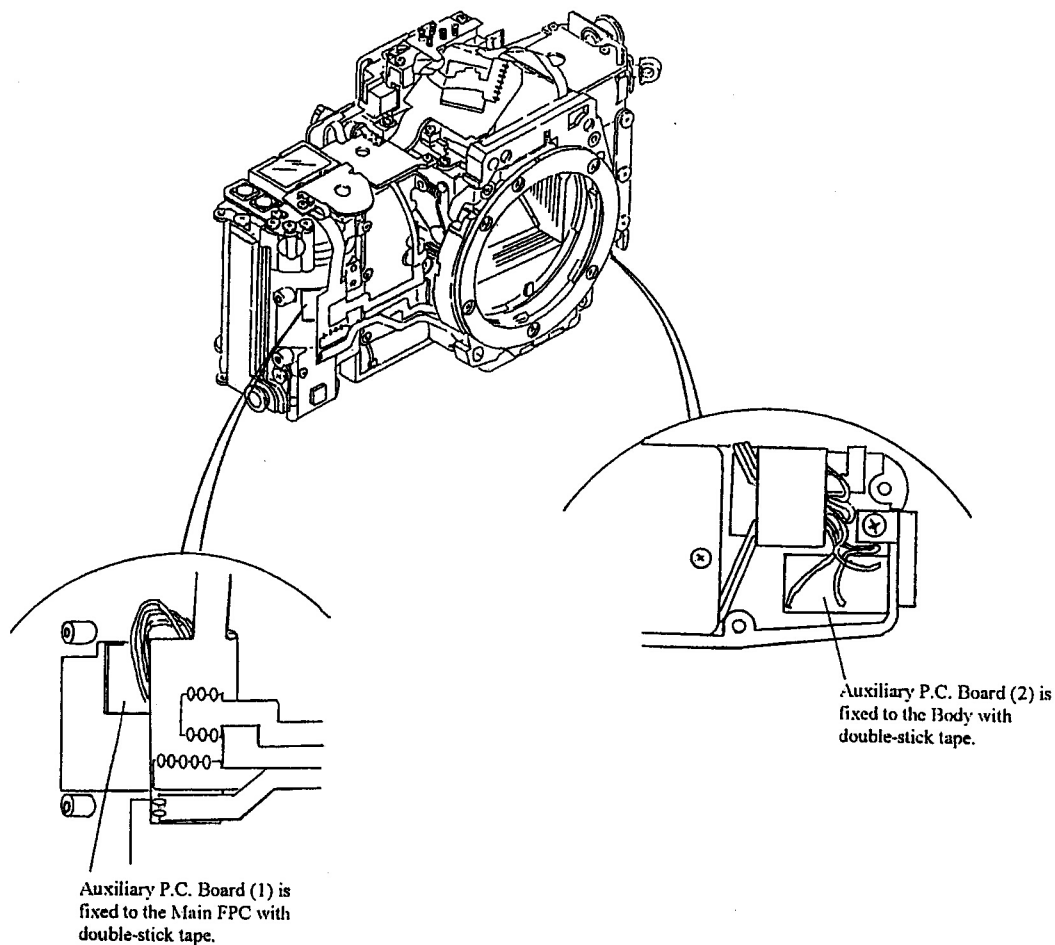


< About repair >

- ① There is no interchangeability between the old type Main FPC Ass'y and the new type Main FPC Ass'y. For repair, therefore, remove the Auxiliary P.C. Board (1) and Auxiliary P.C. Board (2) and install the new type Main FPC Ass'y in the Body.
- ② The old type Main FPC Ass'y will not be supplied. Only the new type Main FPC Ass'y will be supplied.

< Location of Auxiliary P.C. Boards >

- ① The Auxiliary P.C. Board (1) is fixed to the Main FPC in the left area of the Body with double-stick tape.
- ② The Auxiliary P.C. Board (2) is fixed to the bottom right of the Body with double-stick tape.



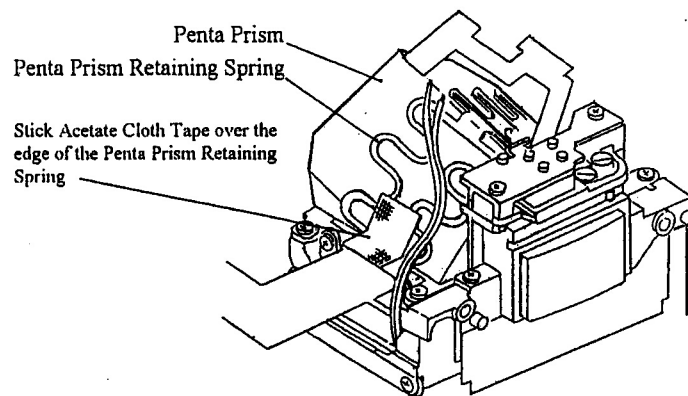
[2] Disuse of Acetate Cloth Tape

< Description >

In initial products, Acetate Cloth Tape is stuck on the Penta Prism Retaining Spring to prevent the Main FPC from being broken by the edge of the Penta Prism Retaining Spring.

< Improvement >

A hole in the Main FPC has been added so that the Main FPC does not come in contact with the edge of the Penta Prism Retaining Spring and thus the Acetate Cloth Tape is disused.



[3] Disuse of PG Light-Shield Curtain

< Description >

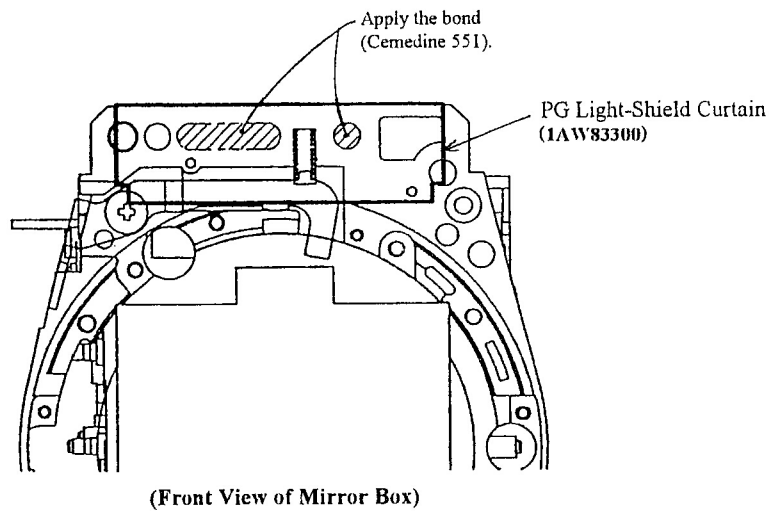
In initial products, the PG Light-Shield Curtain (1AW83300) is stuck on the front surface of the Mirror Box with the bond (Cemedine 551) to prevent the noise that could be made when the Lens Lock Lever is moved.

< Improvement >

The shape of the Front Cover has been changed so that the PG Light-Shield Curtain is disused.

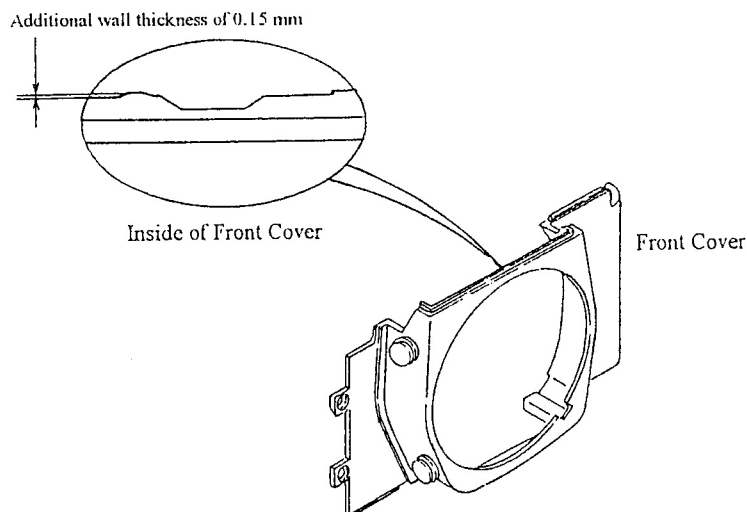
< Notes on Repair >

- Take care that the bond (Cemedine 551) does not adhere to any part other than the Mirror Box.
- When installing the Front Cover of the changed shape, remove the PG Light-Shield Curtain.



< How to Identify the New Type Front Cover >

The wall thickness of the Front Cover is partially added toward its inside by 0.15 mm.



[4] Faulty Operation of Lens Lock Lever

< Description >

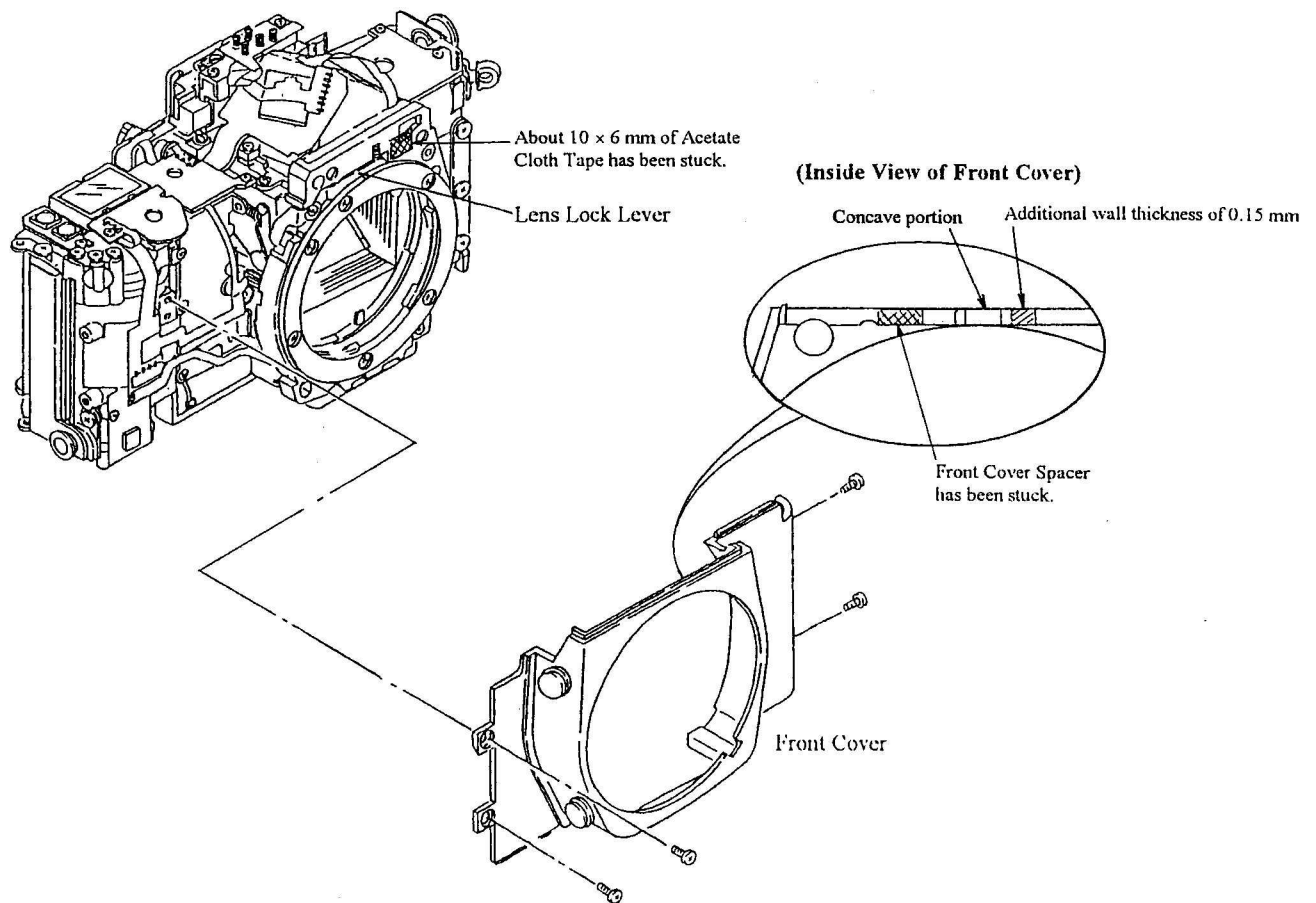
When the Front Cover improved at [3] (with the additional wall thickness of 0.15 mm in the upper area inside) has been installed, the area of the additional wall thickness of the Front Cover can interfere with the Lens Lock Lever, thus causing faulty operation of the Lens Lock Lever. As a temporary measure to avoid this problem, the Front Cover Spacer has been stuck on the inside surface of the Front Cover. Or Acetate Cloth Tape has been stuck on the front surface of the Mirror Box.

< Improvement >

As the permanent measure, the wall thickness of the Front Cover is increased toward its inside properly.

< Note on Repair >

When the old Front Cover is replaced with a new Front Cover improved by the permanent measure, peel off the Acetate Cloth Tape.



[5] Disuse of Temporarily Used Washers

< Description >

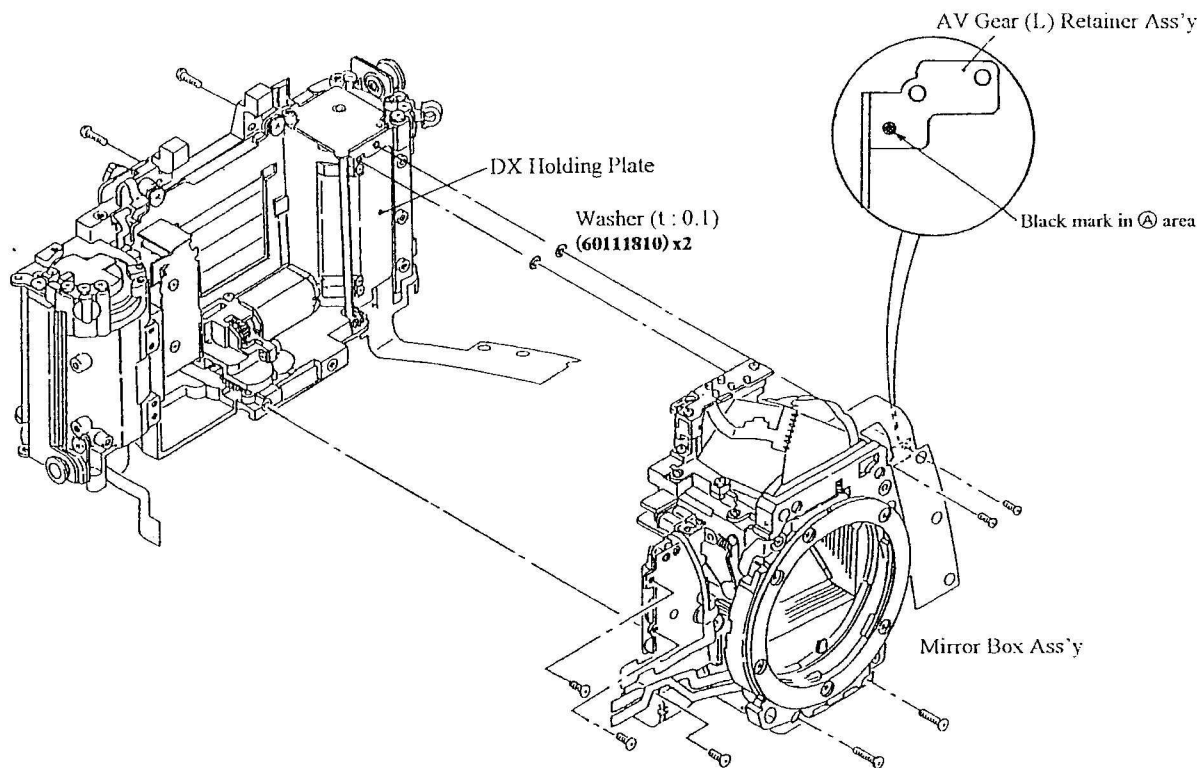
As a temporary measure, the Washers (60111810) × 2 (t : 0.1) were stuck between the AV Gear (L) Retainer Ass'y and the Body and DX Holding Plate. However, the shape of the AV Gear (L) Retainer Ass'y has been changed and the Washers are disused.

< How to Identify the New Type AV Gear (L) Retainer Ass'y >

The new type AV Gear (L) Retainer Ass'y is identified by a black mark put in the ㊤ area.

< Notes on Repair >

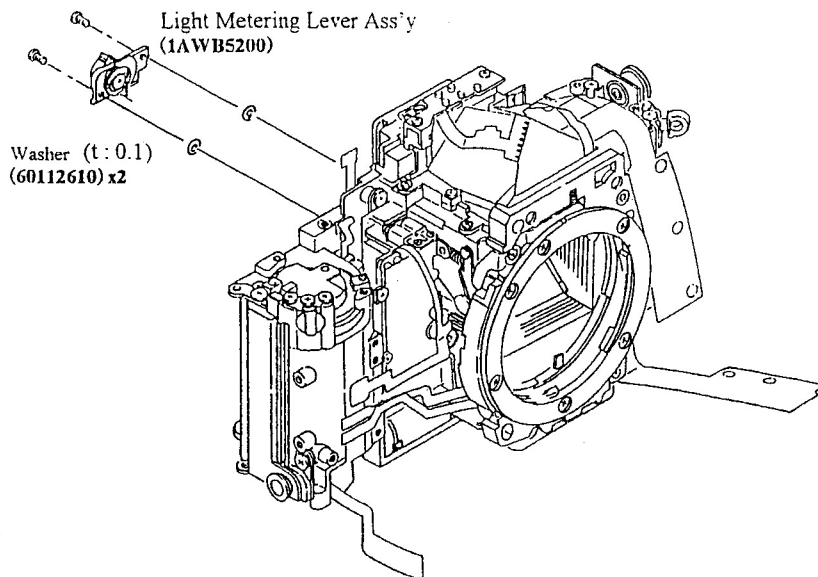
- When the AV Gear (L) Retainer Ass'y or the Mirror Box Ass'y is replaced with a new one, remove the Washers.
- Take care not to lose the Washers during repair.



[6] Disuse of Temporarily Used Washers

< Description >

As a temporary measure, the Washers (60112610) × 2 (t : 0.1) were stuck on the Body where the Light Metering Lever Ass'y (1AWB5200) is mounted. However, the shape of the Body has been changed and the Washers are disused.

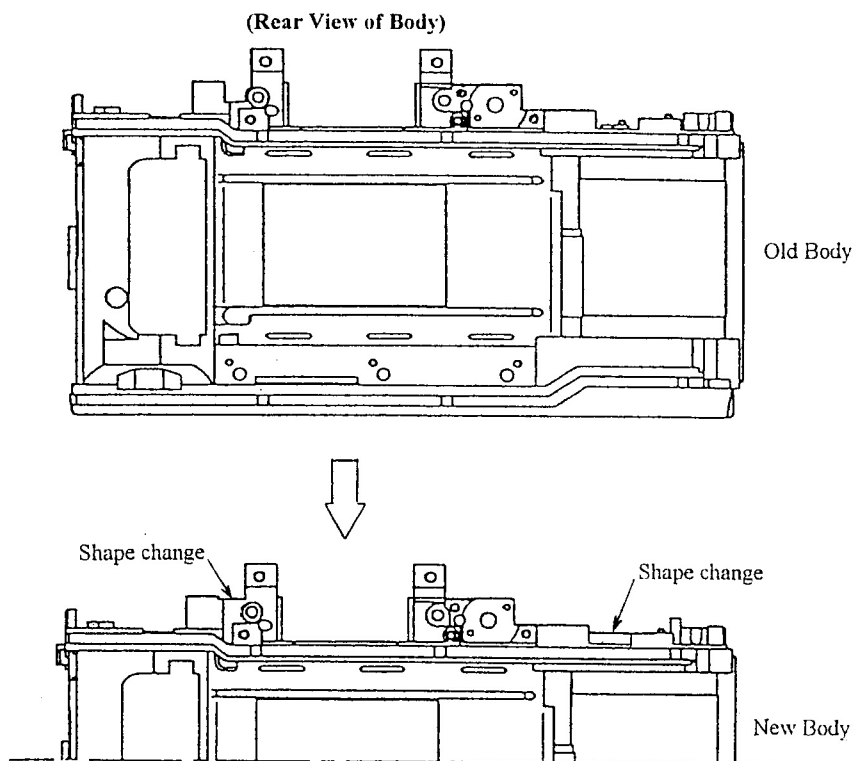


< Note on Repair >

Take care not to lose the Washers during repair.

< How to Identify the New Type Body >

The new type Body has been changed in shape as shown :



[7] Addition of Acetate Cloth Tape

< Description >

The Main FPC Ass'y (1AWE3000) of the changed shape can cause a short circuit between the Self-timer LED Board Ass'y (1AWE3400) and the Main FPC. To prevent this trouble, Acetate Cloth Tape has been added as shown below.

< Position where Acetate Cloth Tape is to be Stuck >

Stick the Acetate Cloth Tape on the Self-timer LED Board Ass'y (1AWE3400) on the Front Plate (L) (1AW27000).

