
REPAIR MANUAL
&
PARTS LIST

FOR

FUJI PROFESSIONAL CAMERA

FUJICA GS645



FUJI PHOTO FILM CO., LTD.

26-30, Nishiazabu 2-Chome, Minato-ku, Tokyo 106, Japan

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I DISASSEMBLY AND REASSEMBLY

1. Top cover assembly (1 - 1)

- Remove the film advance lever assembly (1 - 33) after removing the set screw (1 - 30).
- Raise the top cover assembly (1 - 1) to remove it after removing three set screws (1 - 27, 1 - 28 and 1 - 29).

NOTE: Pay attention on the two lead wires extended to the shoe (1 - 4).

[REASSEMBLY]

- Be sure to set the film selector knob (1 - 9) to the 120 film side before installing the top cover. If the top is installed with the film selector knob set to 220 film side, the selector lever in the film advance mechanism assembly (3 - 1) will be bent.
- Arrange the associated lead wires properly so that they are not seen through the viewfinder window, and install the top cover.
- Carefully combine the top cover with the terminal cover (7 - 40) and cover frame (7 - 50).
- Carefully install the lock plate (1 - 37) so that it will not be overlapped on the lever (3 - 29).
- Check the shutter release for the operating stroke. The desirable operating stroke of the shutter release is shown below.

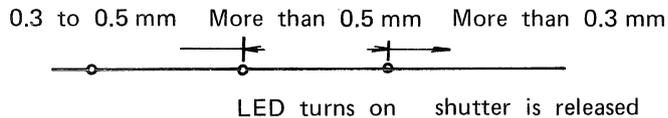


Fig. 1

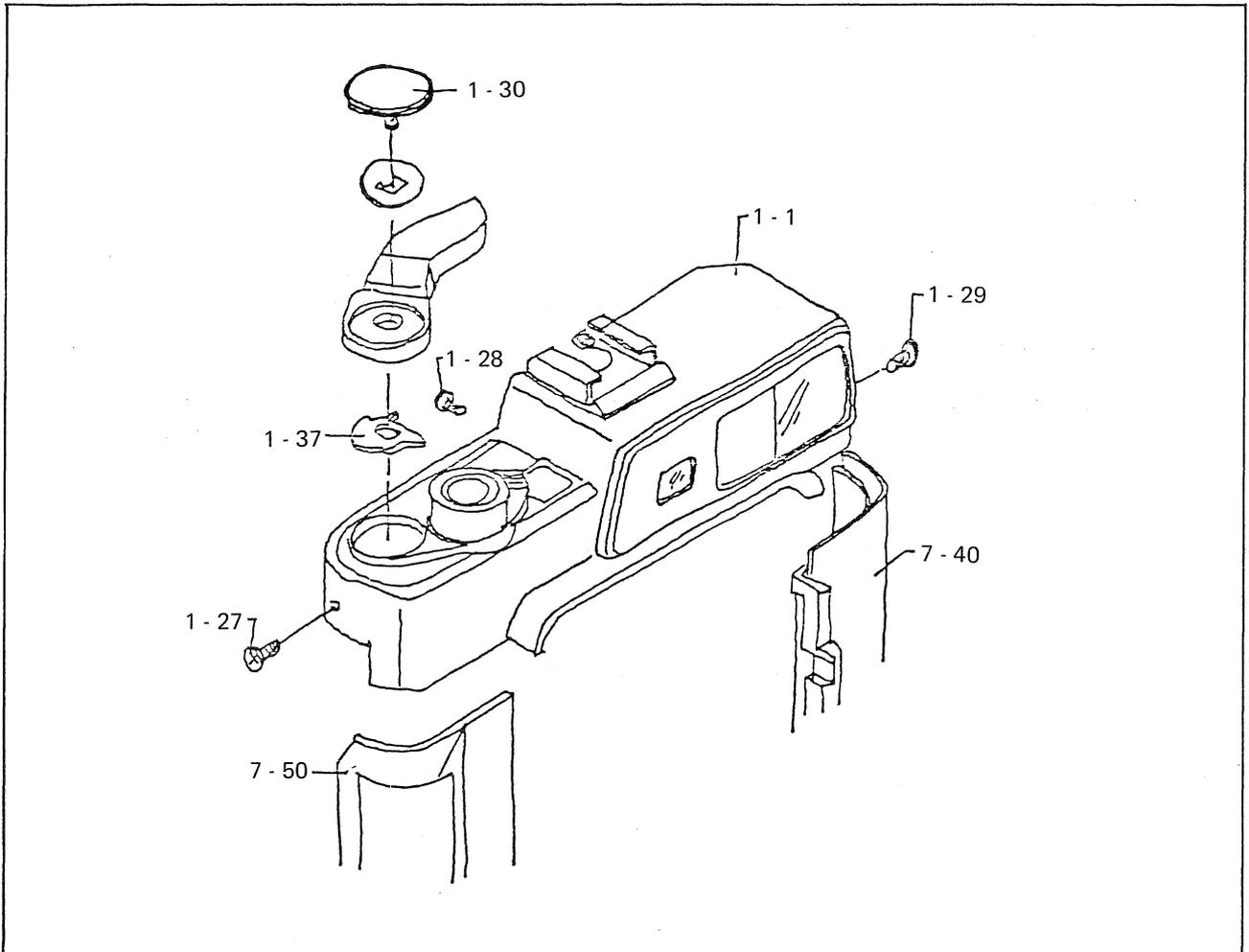


Fig. 2

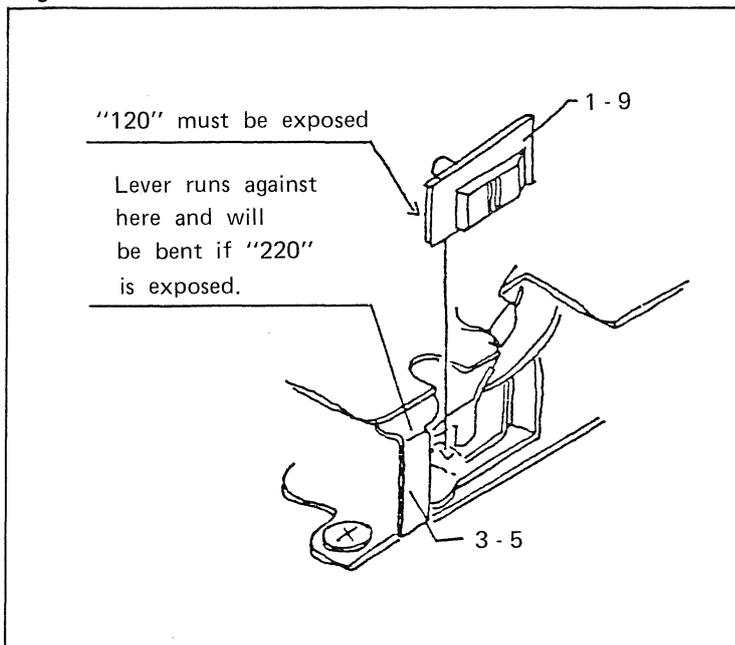
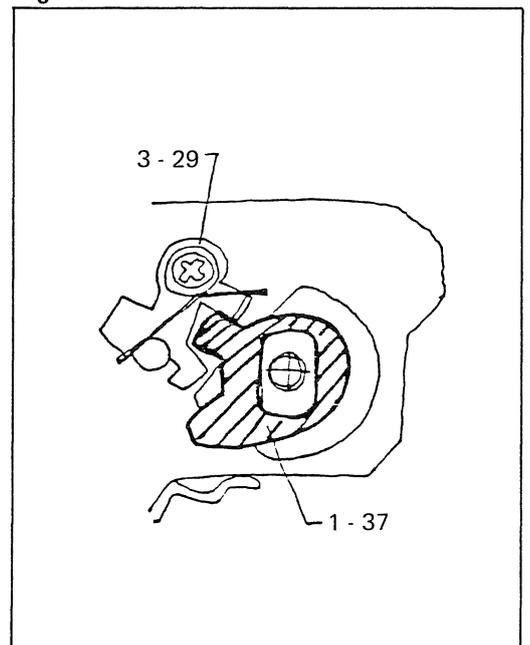


Fig. 3



2. Range finder assembly (2 - 12)

- Disconnect the associated lead wires so that the flexible PCB assembly (2 - 1) can be removed together with the cover (2 - 13).
- Remove the range finder assembly (2 - 12) upward after removing three set screws (2 - 8×2 and 2 - 9).

[REASSEMBLY]

- Combine the pin (6 - 37) of the linkage assembly with the interlock plate (2 - 60).
- Secure the flexible PCB assembly (2 - 1) on the cover (2 - 13) with a piece of double - sided adhesive tape.
- Combine the photocell (built in the flexible PCB assembly) with the photocell frame (2 - 35), and install the flexible PCB assembly with two screws (2 - 2).

Fig. 4

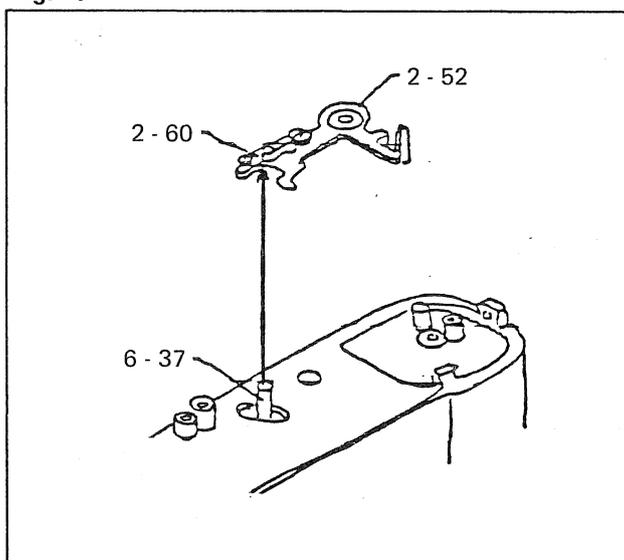
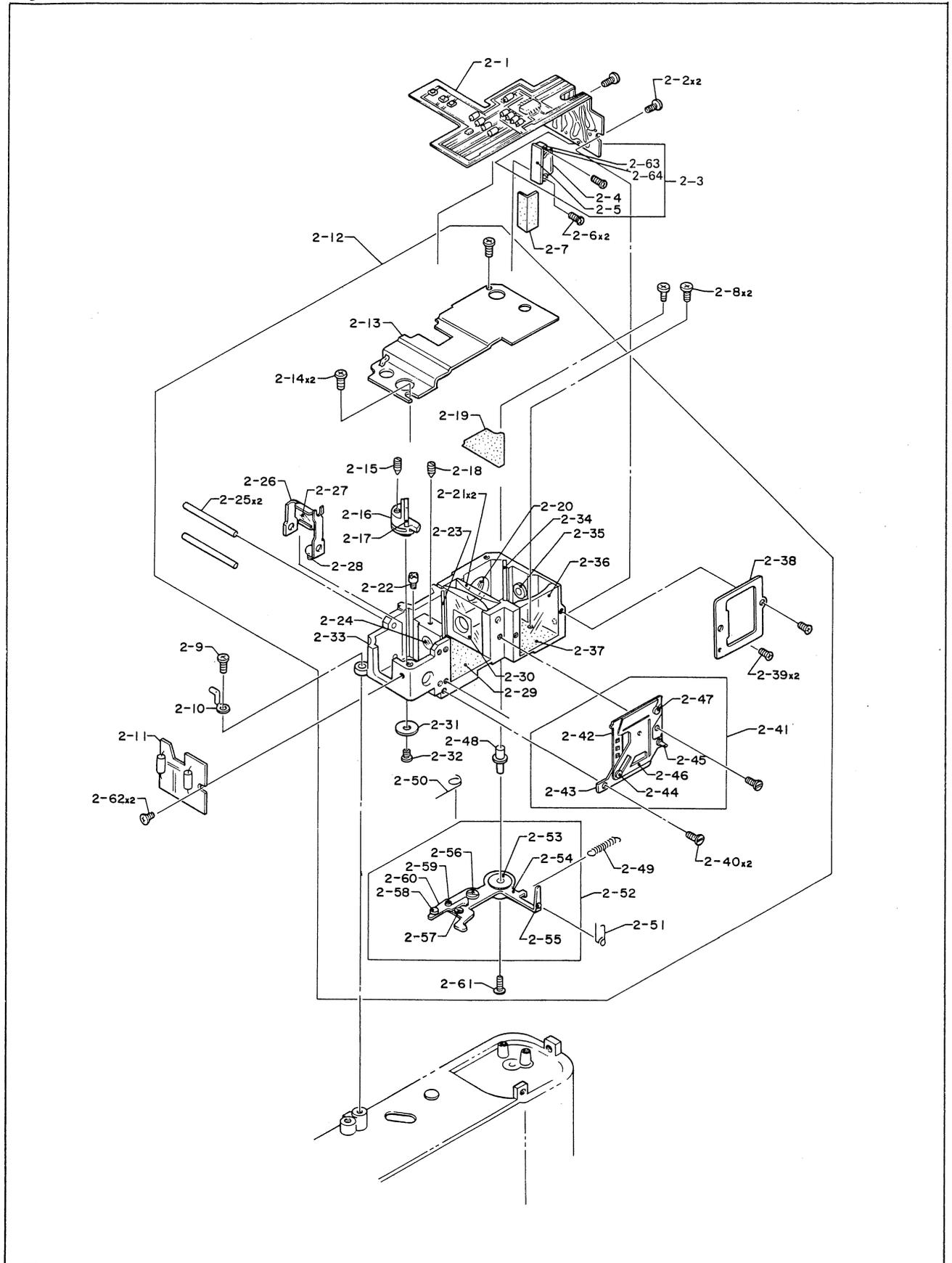


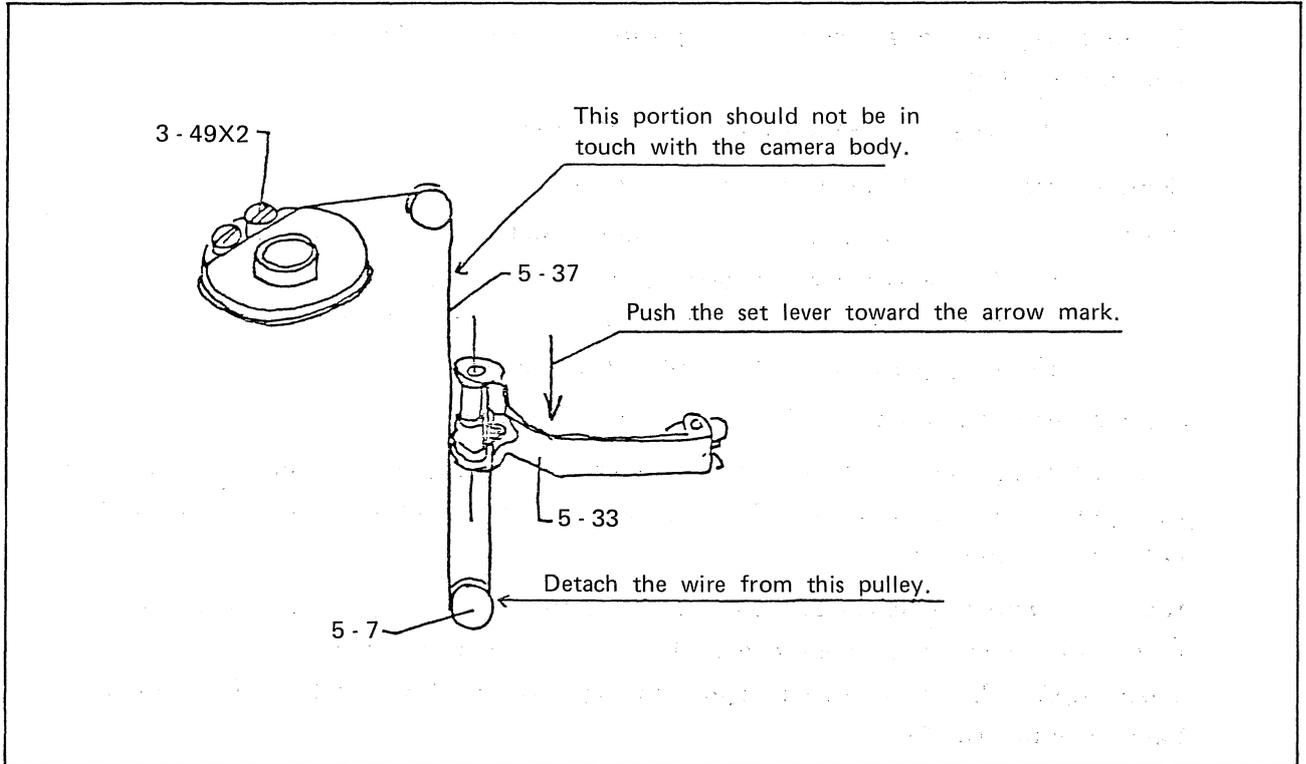
Fig. 5



3. Film advance mechanism assembly (3 - 1)

- The following instructions for removal of the film advance mechanism assembly are for your reference only. A new method may be developed and used. In this case, however, it must be kept in your mind that the wire assembly (5 - 37) which operates when charging the shutter is associated with the film advance mechanism. Be careful not to damage or fold the wire.
- a. Remove the bellows from the housing side after removing four set screws (6 - 46).
- b. Remove the wire from the pulley base assembly (5 - 7) by moving the set lever (5 - 33) so that the wire is loosened.
- c. Remove set screws (3 - 125×3) and screw (3 - 126).
- d. With the film chamber door and zero reset lever opened, remove the film advance mechanism assembly (3 - 1) upward.
- e. When separating the wire from the film advance mechanism assembly (3 - 1), loosen two eccentric pins (3 - 49) on the large pulley.
When the wire is removed once, do not use it again but replace the wire assembly (5 - 37) with a new one.
For wire assembly setting, refer to II - 4 below.

Fig. 6



[Installing Film Advance Mechanism Assembly (3 - 1)]

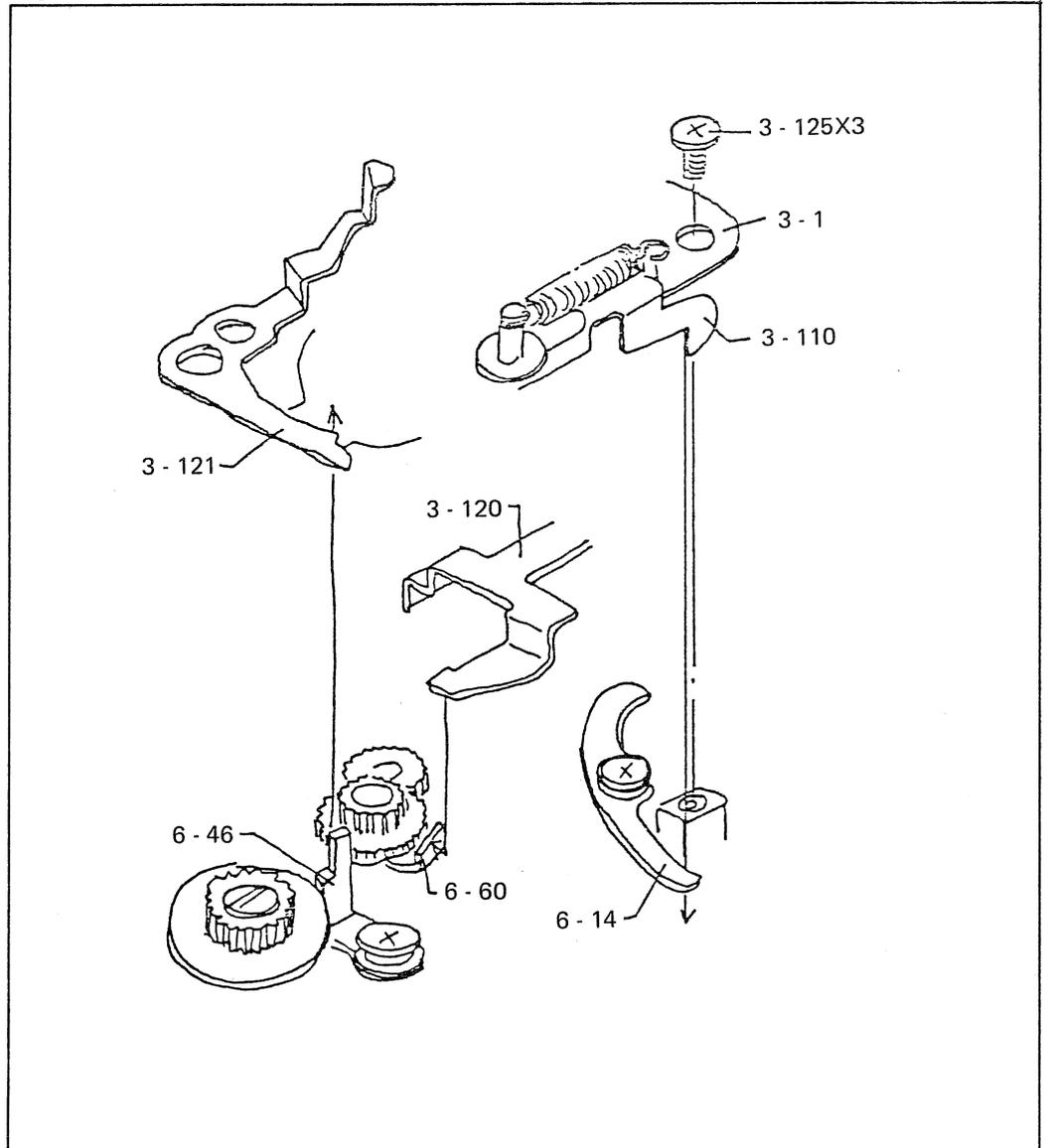
- Combine the zero reset lever (3 - 120) with the lever (6 - 60) of the idle gear assembly (6 - 59).
- Combine the lever (6 - 64) with the lever (3 - 121).
- Combine the lever (3 - 110) with the lever (6 - 14).

NOTE: After insuring that the above three combinations are complete, install the film advance mechanism assembly.

When the counter dial is advanced over 1 with the zero reset lever (3 - 120) pressed, the lever (3 - 121) will drop.

- Tighten three set screws (3 - 125) and screw (3 - 126).
- When applying the spring (3 - 62) to the screw (3 - 126), be careful not to deform the spring. If the spring is deformed, noise will occur or the film advance will not return smoothly.
- When the wire is connected, make sure that the wire is applied to the roller in the film advance mechanism assembly (3 - 1) side completely first. Then, loosen the set lever, and apply the wire to the lower pulley of the pulley base assembly (5 - 7).

Fig. 7



4. Housing assembly (4 - 10)

- Remove four set screws (6 - 46) from the rail surface.

- Wind up the film advance lever, and fold the linkage mechanism in a half way.

- Remove two screws (5 - 17) with a pin - face spanner.

NOTE: When reinstalling these screws, be sure to lock them with screw locking agent.

- Remove two set screws (5 - 18) with a flat head screw driver.

NOTE: When reinstalling these screws, be sure to lock them with screw locking agent.

- Remove the gate (5 - 76) and two links (5 - 67), and take out the housing assembly (4 - 10) carefully.

NOTE: Pay attention on the lead wires extended from the shutter assembly.

- When replacing the shutter assembly with a new one.

Remove the housing assembly (4 - 10) as described above, take out the lead wires from the camera body, remove the rear lens assembly (4 - 57) and hold ring (4 - 56) with a pin face spanner, and then, take out the shutter assembly.

[REASSEMBLY]

Be careful not to hold the lead wire in between the bellows and housing when installing the bellows.

If the lead wire is held, the helicoid will not operate smoothly.

When the helicoid is operated to the position for the minimum distance, the lead wires must have an extra length.

Fig. 8

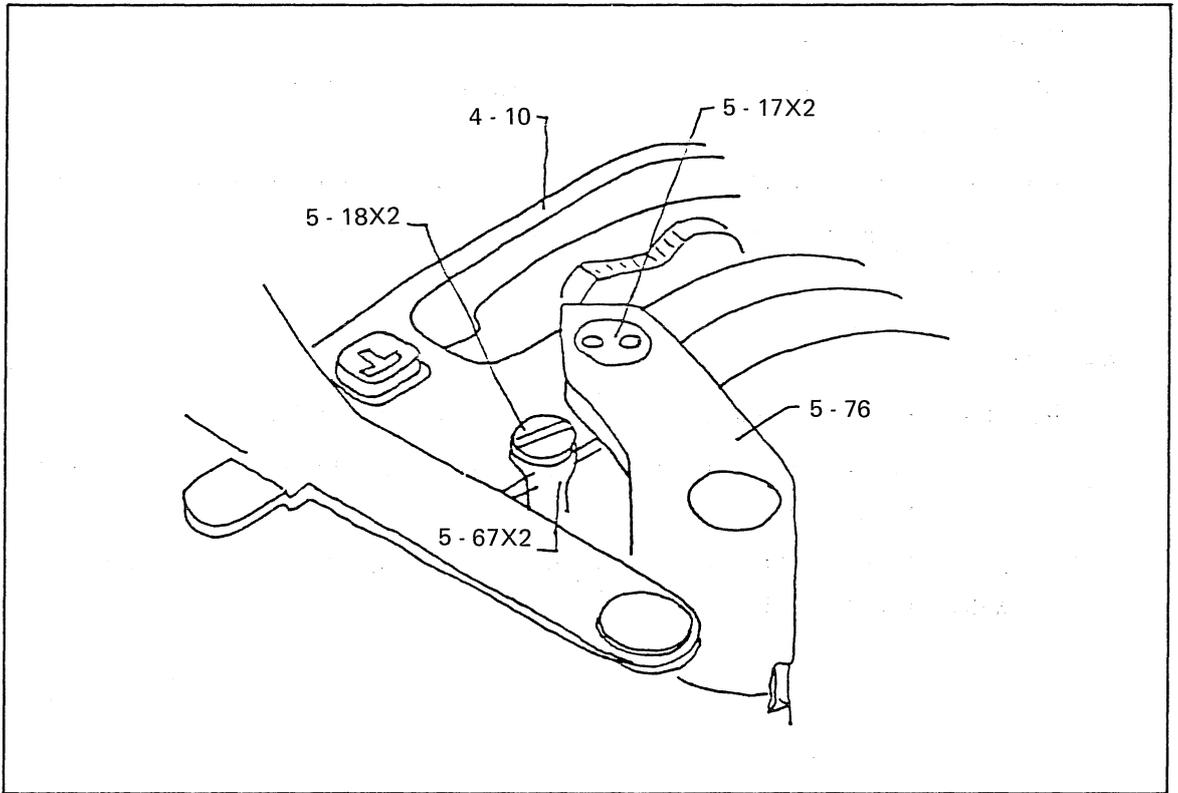
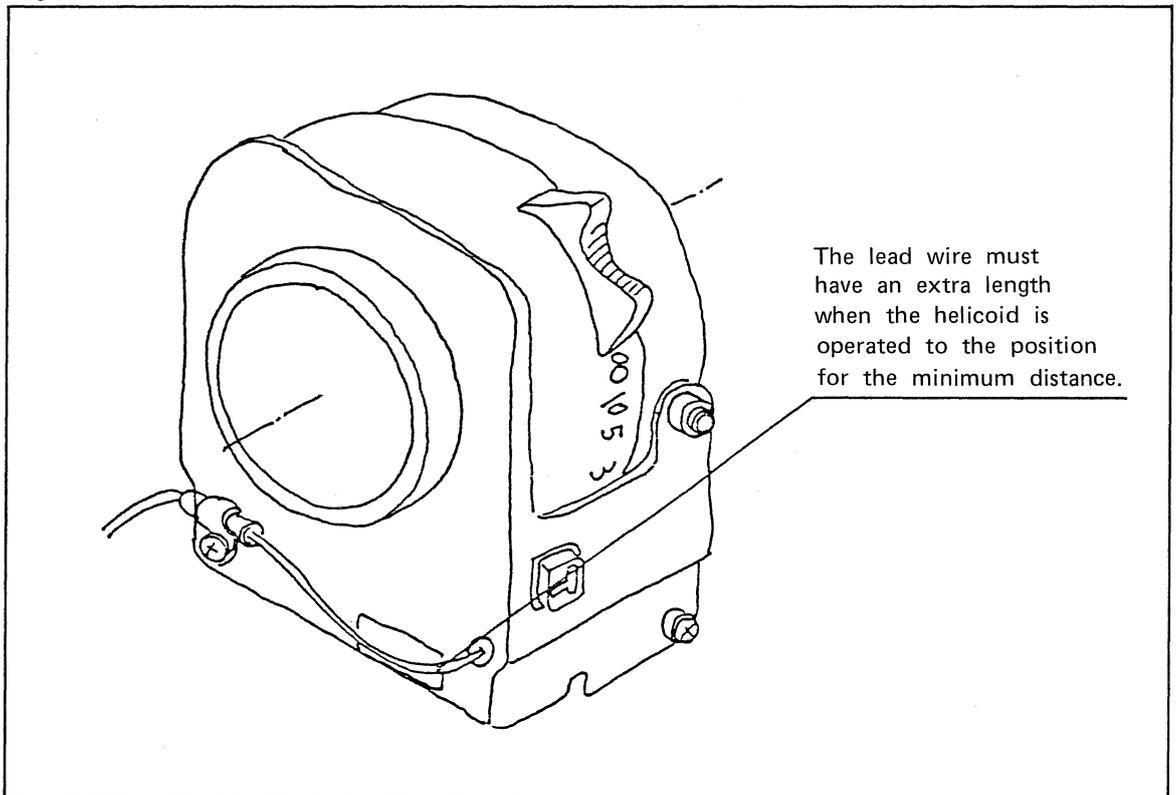


Fig. 9



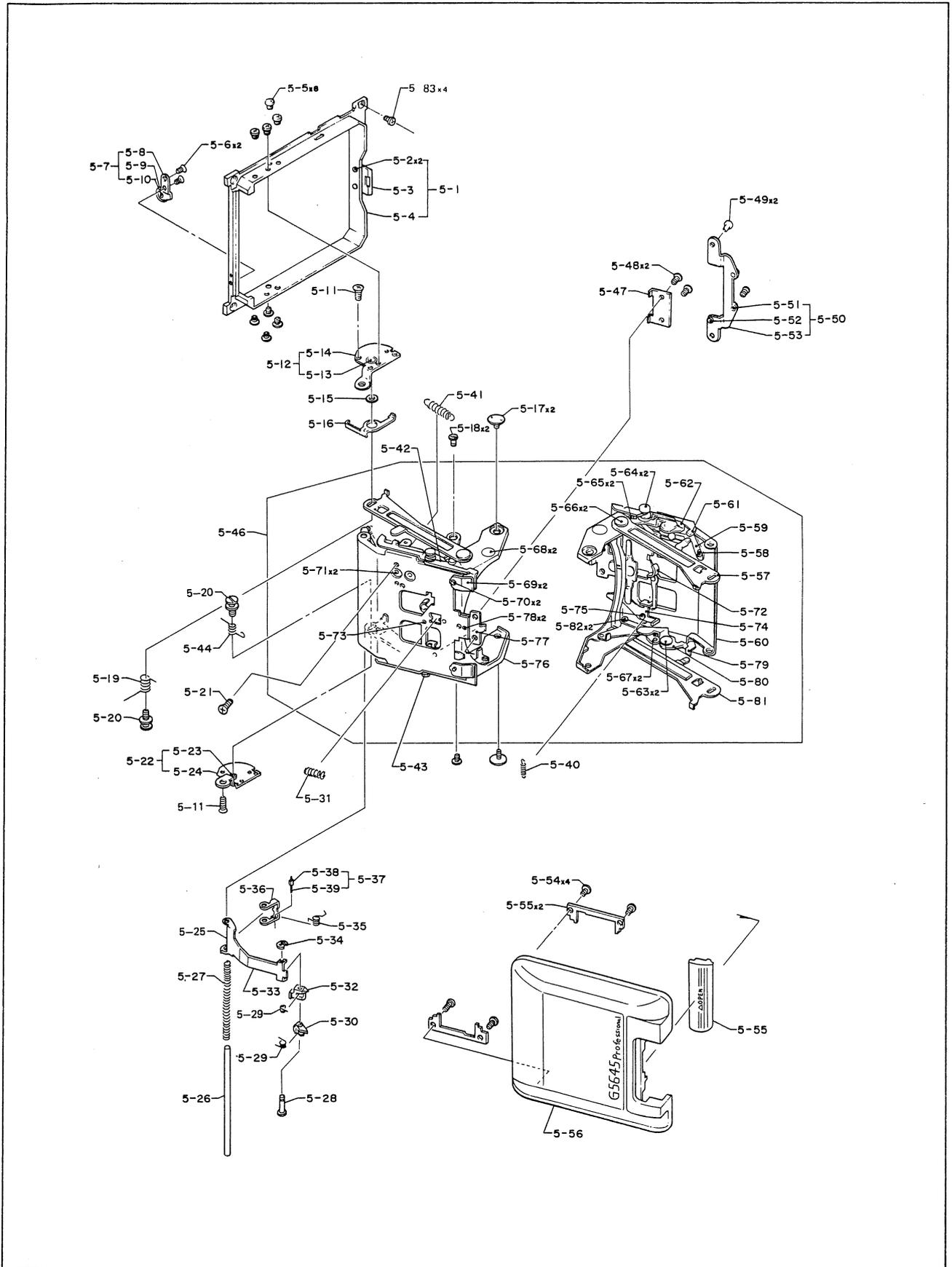
5. Front cover mechanism assembly (5 - 46)

- Do not loosen eight set screws (5 - 5) unless otherwise necessary. These screws are used to adjust the parallelism between the film plane and shutter installing surface.
- When these set screws are loosened, adjust the parallelism in accordance with the instructions in II - 3 below.
- Do not remove four washers (6 - 22) except when adjusting focusing performance.
- When removing the front cover mechanism assembly, remove four set screws (5 - 83).

[REASSEMBLY]

- Pay attention on the installing directions of the two holders (5 - 45).
- Combine the front cover mechanism assembly with the camera body with the lever (6 - 11) released.
- Open and fold the front cover and make sure that the lever (6 - 11) hooks and unhooks with the leaf spring (5 - 16).

Fig. 10



II REASSEMBLY AND ADJUSTMENT

1. Friction of film take up shaft.

One stroke of the film advance lever consists of one frame film feeding and shutter charging. Film feeding length differs depending on diameter of the film wound up on the film take up shaft.

For the above reasons, the film take up shaft must have a proper friction so that no force is applied to the film take up shaft by the number of turns of the counter roller.

- The spring (6 - 74) functions to provide the film take up shaft with a proper friction. If this spring does not operate smoothly, the film advance lever will not operate smoothly.

Apply a sufficient volume of Helicolube/Molycote mixed grease.

2. Air discharging groove of the bellows

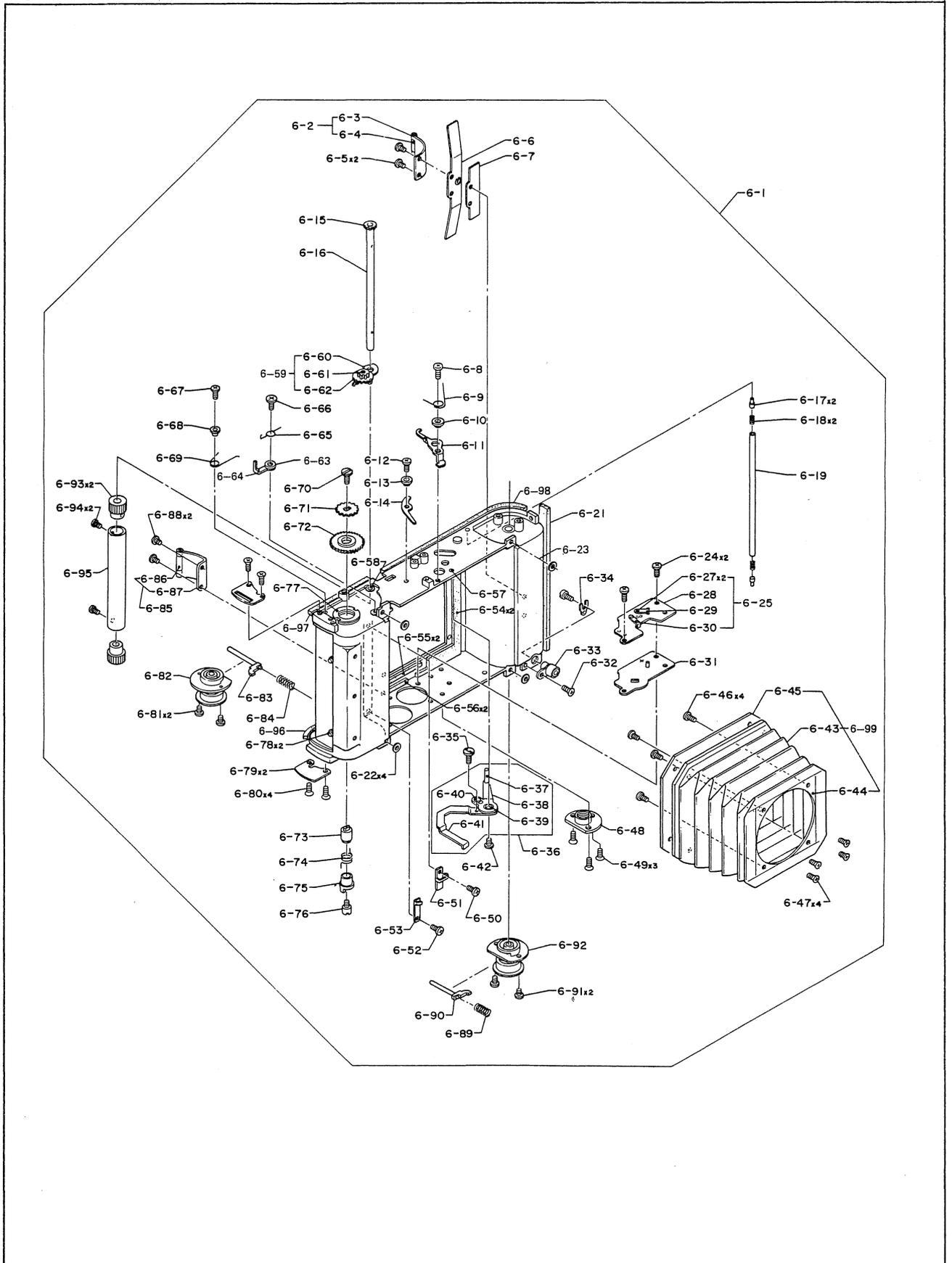
When the bellows is opened rapidly after loading a film, the bellows will shrink as vacuum occurs within the space.

To prevent this occurrence, the camera body has grooves, and to prevent light leakage through the grooves, moquette is used.

The moquette is located behind the rail surface.

Note that the function of the moquette affects both the air discharging and light shielding.

Fig. 11



3. Adjustment of parallelism of the front cover mechanism assembly

- The optical axis of the lens must be perpendicular against the film plane, or otherwise, focusing cannot be made correctly.
- Based on the film plane, adjust parallelism of the lens plane.

[METHOD]

Special tools and instrument to be prepared.

Base plate (J11286)

Reflector (J11303)

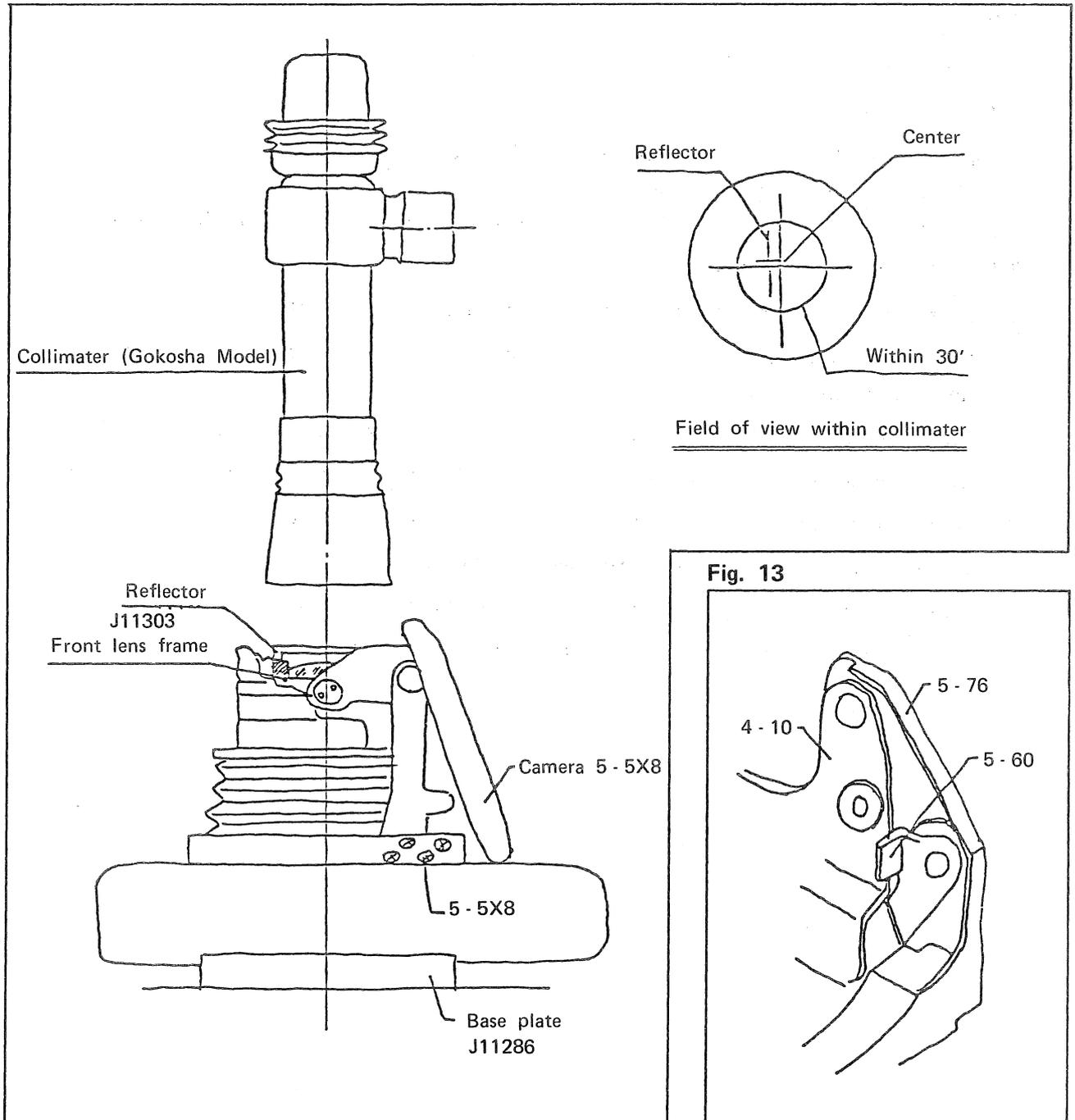
Collimator (Gokosha Model)

- a. Check the optical axis of the collimator and right angle (perpendicular alignment) of the base plate.
- b. Place the rail plane on the base plate, and place the reflector on the front face of the lens.
When the name ring is installed, remove it. [Watch the front of the front lens assembly frame.]
- c. Set the collimator to the infinite (∞), check the reflected image, and adjust the parallelism by loosening eight set screws (5 - 5) so that the reflected image is in the center.
The rating is within 30'. The parallelism is satisfactory as long as the image is within the field of view frame of the collimator (Gokosha Model).
- d. When the parallelism is adjusted completely, lock the eight set screws (5 - 5) with screw locking agent (Alonalpha or Sumicatight).

When the parallelism cannot be adjusted with the set screws (5 - 5):

- Visually check that the housing is installed in parallel to the gate (5 - 76).
- Check that the stopper portion of the base plate (5 - 60) is not deviated horizontally. When deviated, it may be adjusted by bending.
- Make sure that the front cover mechanism assembly has risen completely.

Fig. 12



4. Adjustment of shutter setting

Adjustment of wire

- Adjust two eccentric pins (3 - 49) to adjust set value.

[Ideal set position]

Release the shutter, watch the gap between the set lever (5 - 33) and base plate (5 - 60), and set the gap to 1 mm from the base plate.

Make sure that the shutter can be set with a sufficient space for both the infinite and minimum distance sides.

[When shutter set is unsatisfactory at the minimum distance side]

- Check the set lever of the slider for slackness, and bend as shown in the right hand figure to adjust.
- When the slackness is excessive, replace the set lever with a new one.
- When the adjustment is completed, and the wire is too long, cut it with a cutter.
- Be sure that the wire does not come out from the large pulley.
- The wire must have an extra space against the eccentric pin.
- Apply Alonalpha to the wire edge so that it will not get loose.
- Make sure that the wire is not damaged or bent sharply.

Fig. 14

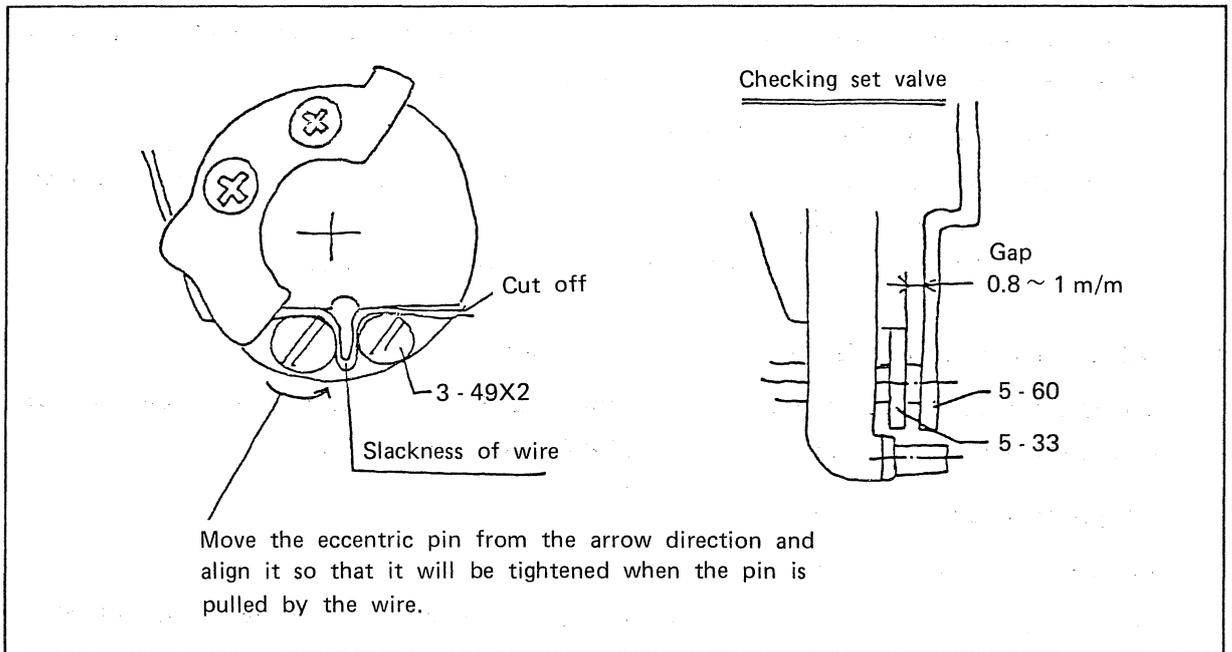
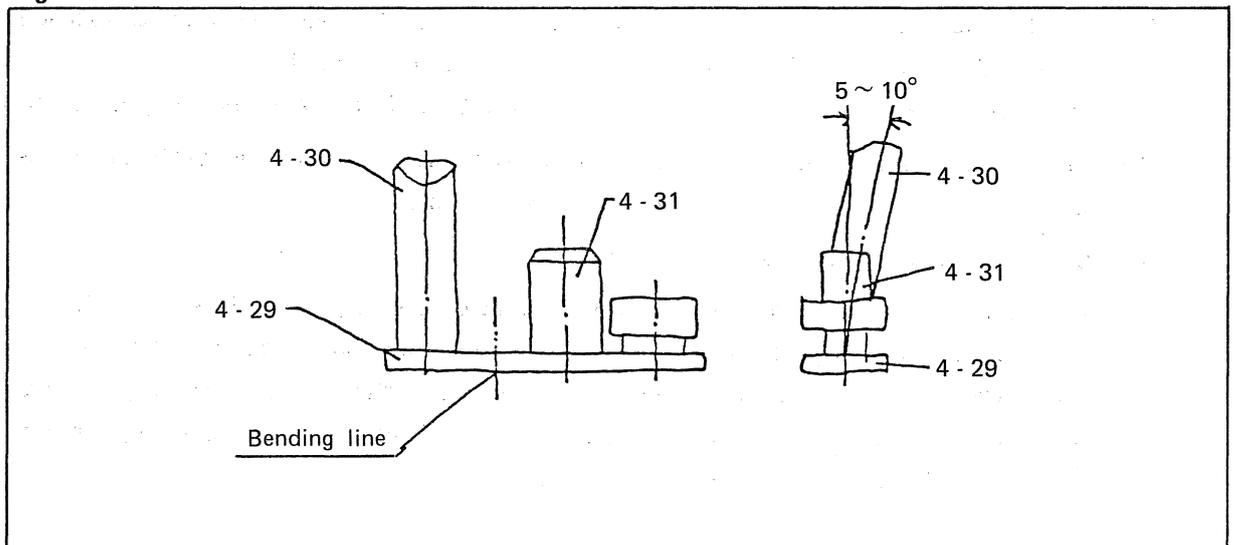


Fig. 15



5. Adjustment of focusing (Infinity adjustment)

- Set the collimator to ∞ .
- Watch the film plane, and fix the ∞ side stopper of the helicoid at the position where image of the collimator is correctly focused.
- To adjust, loosen four set screws (4 - 51).

NOTE: Set the film plane within $+0.05 \pm 0.1$ mm (-0.05 to $+0.15$ mm) against the rail plane.

[Set film side to $+0.05$ mm against the rail plane.]

6. Adjustment of viewfinder (Coincidence of images)

To adjust coincidence of the stationary image and moving image, the screw (2 - 15) (for height) and eccentric pin (2 - 22) (for left or right) are used.

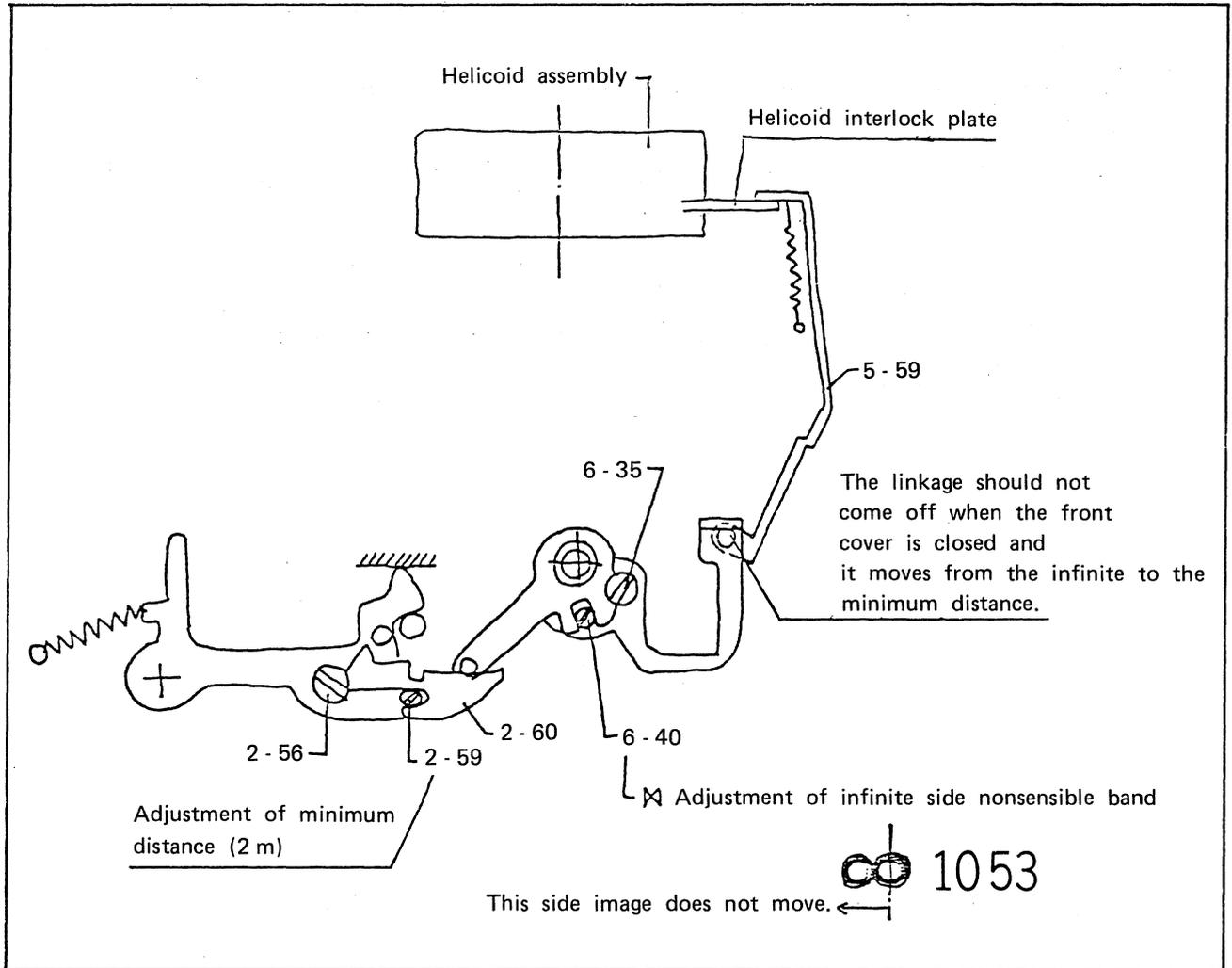
[Adjustment procedure]

Coincidence of infinite image

- (1) Apply the lens to the ∞ side stopper and coincide the moving image with the stationary image.
- (2) Fix the helicoid at the position where an image in 2 meter distance is focused on the film plane, and watch the coincidence in the viewfinder.
When the image is deviated to the right or left, adjust the eccentric pin (2 - 59).
- (3) Check the infinity, and repeat the adjustment until the focusing performance is within the permissible range (-0.05 to $+0.15$ mm).
- (4) Setting infinite image non - sensing band

Adjust the eccentric pin (6 - 40) of the linkage assembly (6 - 36) so that the image in the infinite side is in the non - sensing band at $\frac{1}{4}$ of the ∞ mark and thereafter. [Provide a proper gap by bending the linkage assembly so that the image coincidence in the viewfinder is not affected even if the engagement of the interlock lever changes.]

Fig. 16



○ Adjustment of viewfinder (parallax)

Adjust deviation between the picture frame on the film plane and viewfinder frame.

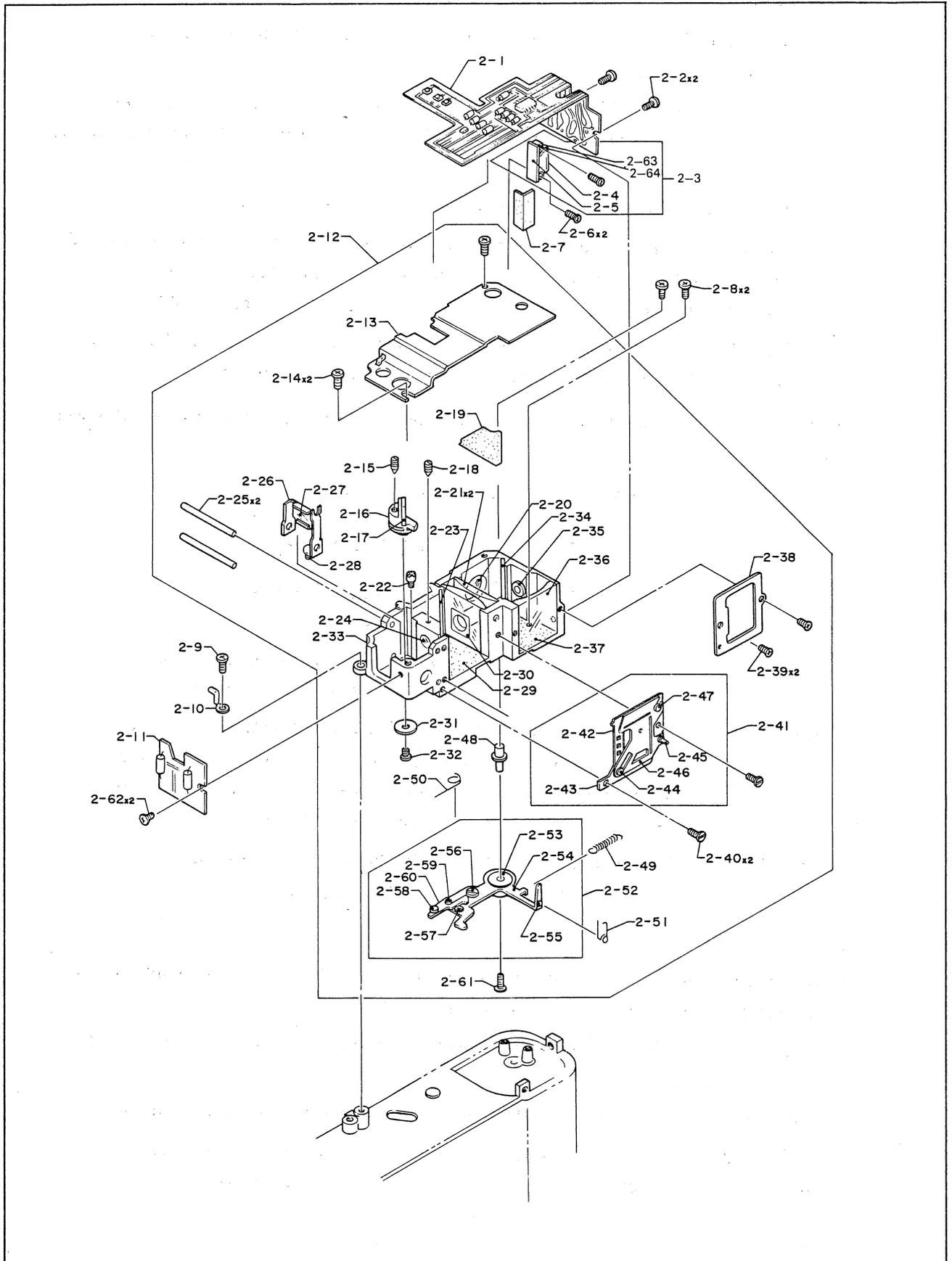
To adjust it, adjust position of the viewfinder frame assembly (2 - 41) with two screws (2 - 40).

When the parallax is adjusted for the infinite, make sure that it is not deviated remarkably at the minimum distance (1 m).

Adjustment of moving image focusing

With the bar prism (2 - 24), focusing of the moving image can be coincided with the stationary image.

Fig. 17



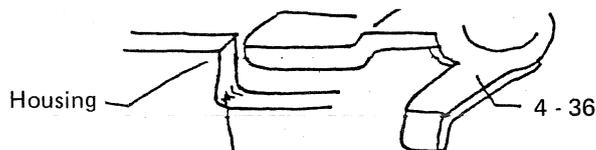
7. Film advance/shutter charge system

7 - 1 Shutter charging and releasing mechanism

- When the film advance lever is wound up, the large pulley assembly (3 - 42) takes up the wire.
- The set lever (5 - 33) moves as it is pulled by the wire, and the claw (5 - 30) engages with the slider assembly (4 - 24) causing the slider assembly to operate.
- The shutter set lever is set by the slider assembly (4 - 24).
- When the film advance lever is returned, the large pulley assembly (3 - 42) returns until it is hooked by the release plate assembly (3 - 11). Then the set lever (5 - 33) also returns due to the spring (5 - 27).
- The slider assembly (4 - 24) is also returned by the spring (4 - 18), and the lever (4 - 36) returns until it is hooked by the housing.

[When the shutter is released as soon as the shutter is charged or as the front cover is closed]

Cause No. 1 : The lever (4 - 36) does not hook correctly.



The lever (4 - 36) may be properly bent so that it does not drag at this corner.

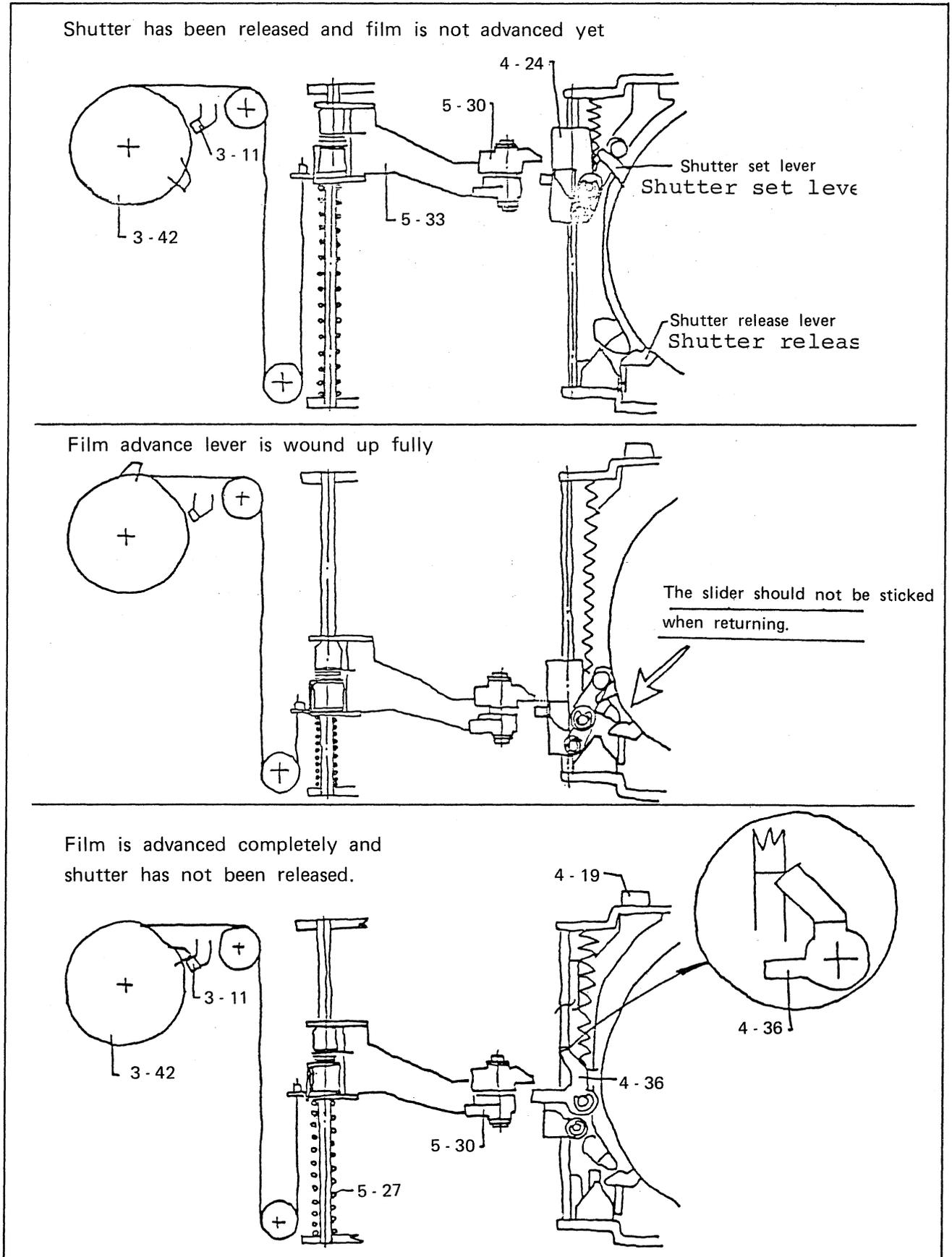
Cause No. 2 : Take - up set value is insufficient, and therefore, the claw (5 - 30) releases the lever (4 - 36) as soon as the shutter is charged. When the shutter is charged, there must be a proper gap between the claw (5 - 30) and lever (4 - 36).

Cause No. 3 : The engagement between the large pulley assembly (3 - 42) and release plate assembly (3 - 11) is improper.

○ Shutter release

- ★ When the shutter release button is pressed, the release plate assembly (3 - 11) disengages with the large pulley assembly (3 - 42).
- ★ When the large pulley assembly is freed, the spring (5 - 27) causes the set lever to move.
- ★ The claw (5 - 30) disengages the lever (4 - 36), causing the slider to move.
- ★ The lever is pushed (4 - 19) is pushed by the slider, causing the shutter release lever to move, and thus, the shutter opens and closes.

Fig. 18



○ T - mode

When the lever (4 - 19) is pushed from the outside, the release lever moves causing the shutter to be opened in a half way.

The shutter does not operate to close because the shutter set lever is locked by the slider in the shutter charged position.

When the shutter release button is pressed, allowing the slider to run, the set lever operates, causing the shutter blade to close.

The shutter is not released.

- When the shutter is charged completely but the shutter cannot be released or slider does not run as the shutter release button is pressed (occasional occurrences are also included).



The shaft holder portion of the large pulley assembly (3 - 42) is heavy.

Repair : Clean the shaft. Do not use grease.

- The slider runs but the shutter blade does not open (occasional occurrences are also included)



Insufficient shutter charging.

Repair : The shutter must be charged with a sufficient setting strokes at both the minimum distance and infinity sides.

When the shutter charging is minus at the minimum distance side, refer to II - 4 above.

7 - 2 Film take - up mechanism

The exposure counter does not advance unless the counter roller is turned with a film loaded.

a. Advancing film from S to 1

- When a film is loaded and the film advance lever is wound up, the counter roller (6 - 93) is turned to the arrow direction by the film.
- As the counter roller (6 - 93) turns the counter dial (3 - 51) is advanced.
- The film advance lever can be wound up successively until the 1st frame is indicated by the exposure counter.
- When the film is wound up to the 1st frame, the edge of the counter dial disengages with the rising portion (A) of the lever (3 - 121), allowing the lever (3 - 121) to turn to the arrow direction.
- When the disc (3 - 85) turns and the groove is coincided with the lever (3 - 121), the lever drops into the groove, and the lever (6 - 64) engages with the ratchet wheel (6 - 72).
- When the ratchet wheel (6 - 72) stops, the film taking - up force acts as a friction, causing the film taking - up (advance) to stop.
The film advance lever can be wound up continuously until the swing lever (3 - 78) disengages with the ratchet even after the film stops.

Fig. 19

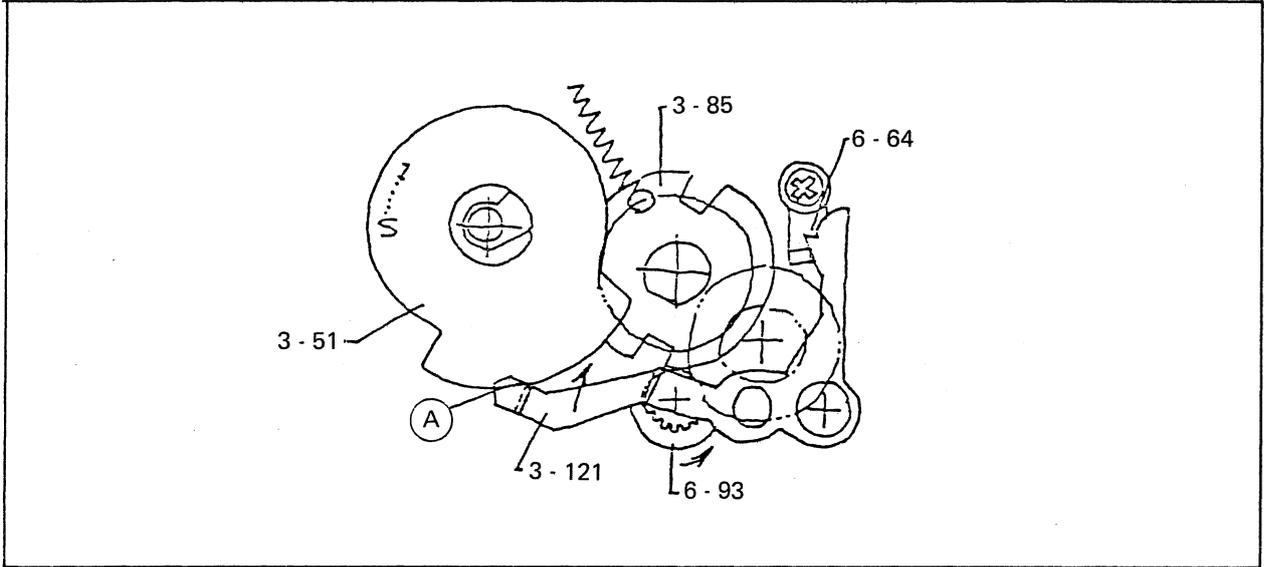
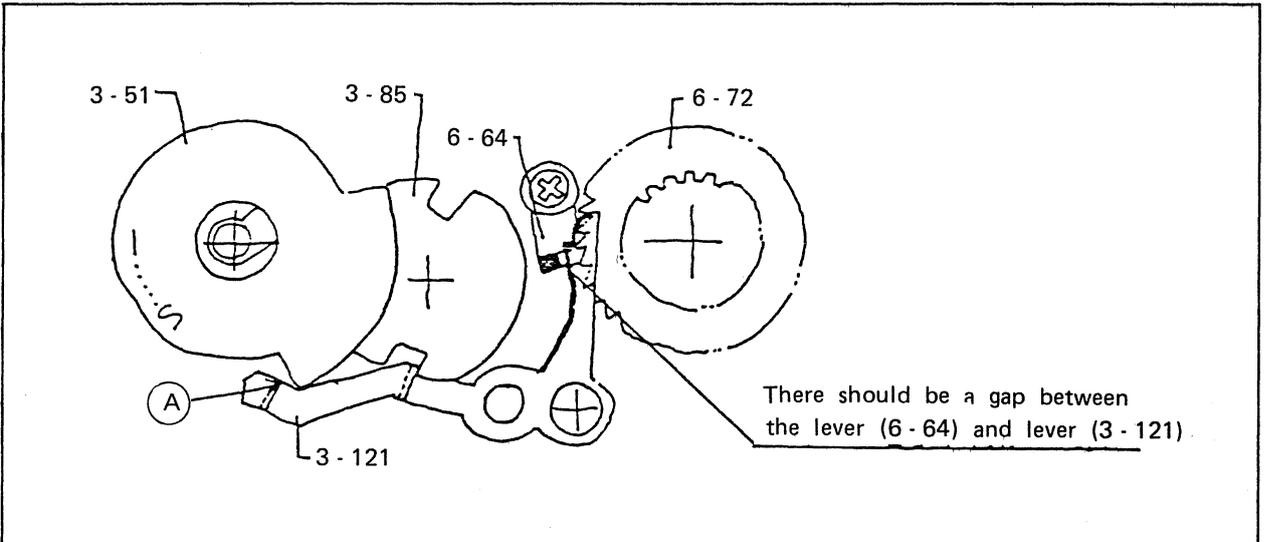


Fig. 20



b. Advancing film to the next frame

- ★ When the film is advanced to the 1st frame and the shutter is charged completely, the relative parts are set as shown below so that double exposure can be prevented.

The lever (3 - 109) engages with the swing lever (3 - 78) with the swing lever (3 - 78) opposed to the ratchet wheel assembly (3 - 54).

The swing lever (3 - 78) functions as a stopper, and the ratchet wheel assembly (3 - 54) cannot turn.

- ★ When the shutter is released, the release lever assembly (3 - 64) is pushed by the cam (3 - 46) of the large pulley assembly (3 - 42), and the lever (3 - 121) joined with the release lever assembly (3 - 64) moves.

Fig. 21

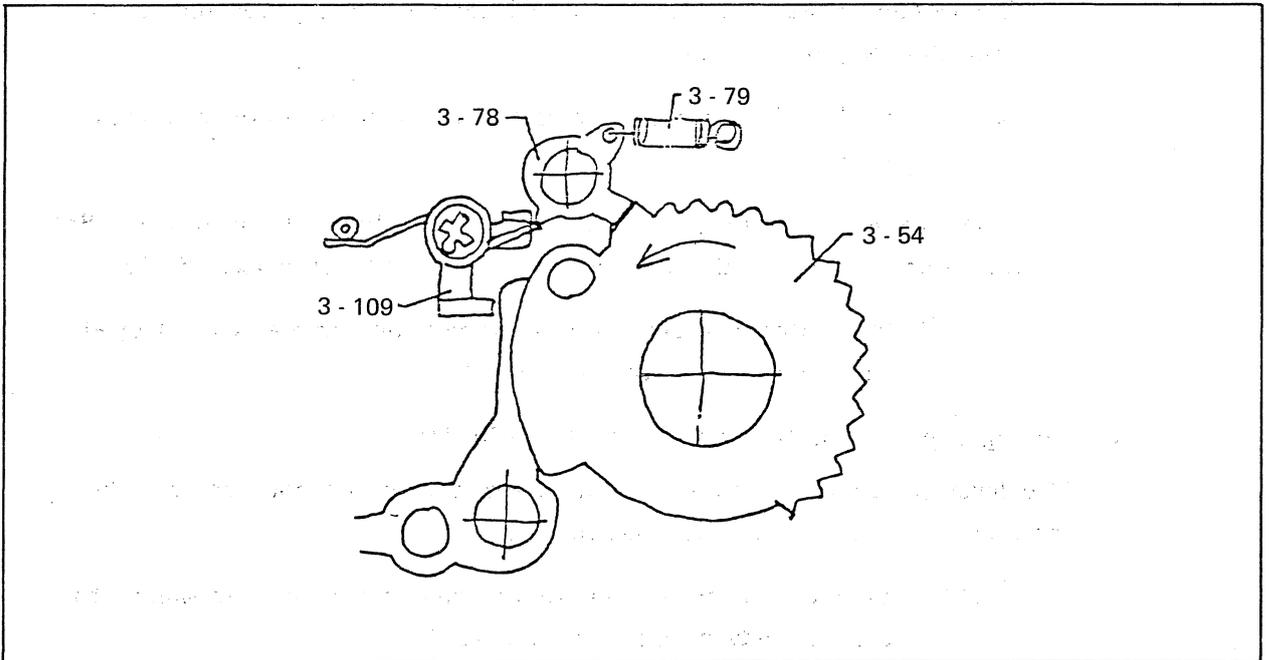
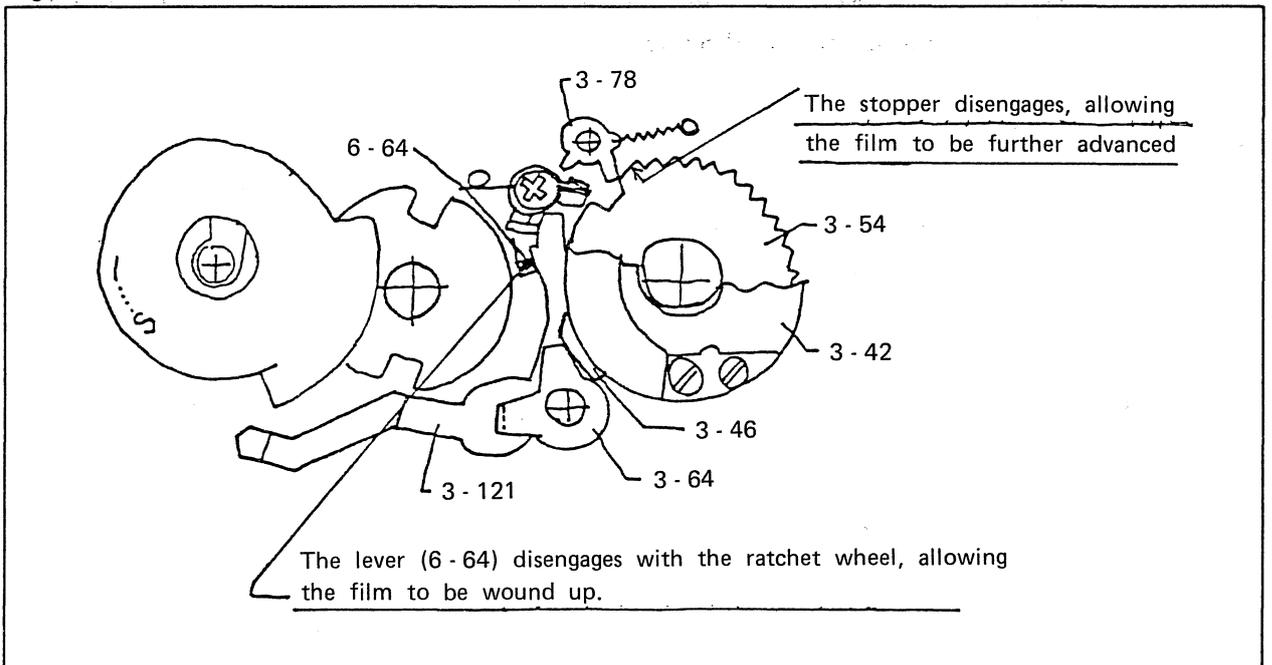


Fig. 22



- ★ When beginning to advance the film and the release lever assembly (3 - 64) is about to disengage with the cam (3 - 46), the groove of the disc (3 - 85) must have been separated from the rising portion of the lever (3 - 121) by the film.

 If this alignment is incorrect, one frame is overlapped with another.

When the lever (3 - 121) is limited at the periphery of the disc (3 - 85), the lever (6 - 64) should not engage with the ratchet wheel (6 - 72).

 When this arrangement is improper, one frame is overlapped with another or noise is generated.

- c. Ending exposure of the last frame of a 120 film.

The lever (3 - 2) is pushed up by interlocking with the counter, and the lever (3 - 121) is kept in the released state.

 Film can be wound up to the end in the manner similar to the film advancement from S to 1.

NOTE: The lever (3 - 2) must be pushed by the leaf spring (3 - 9) toward the arrow (A) direction.

Fig. 23

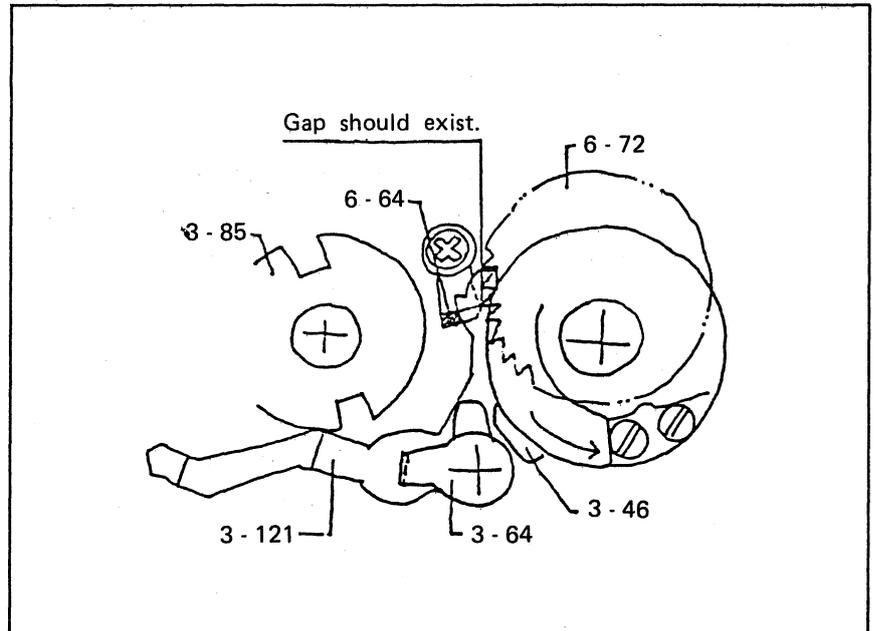
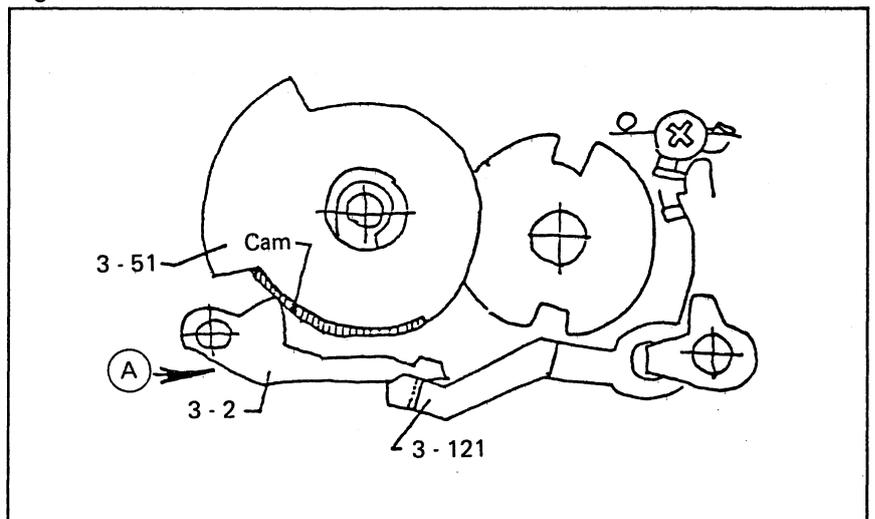


Fig. 24



d. Ending exposure of the last frame of a 220 film

The lever (3 - 2) is set to the 220 film with the film selector knob of the top cover assembly, and thus, the lever is separated from the counter dial. If the lever is not separated from the counter dial, film winding is freed at the 16th frame.

When the 30th frame is exposed, and the film advance lever is wound up, the projection of the counter dial enters beneath the lever (3 - 121), and the lever (3 - 121) is kept in the separated state.

When the lever (3 - 121) runs against the dial (3 - 51), check the film advancing timing for delay.

e. 1st frame film position

A 120 film has a mark on the film leader. Match this mark with the mark on the camera body, and advance the film to the 1st frame.

Some times, the 1st frame film position may be deviated from the number indicated on the back of the film.

This deviation should be within $\pm\frac{1}{2}$ frame.

[When excessively deviated]

- Make sure that the disc (3 - 85) is returned to the predetermined position by the spring (3 - 82) when the film chamber door is opened.
- At position S, there should be a gap between the claw (3 - 115) and counter gear (3 - 52).

Fig. 25

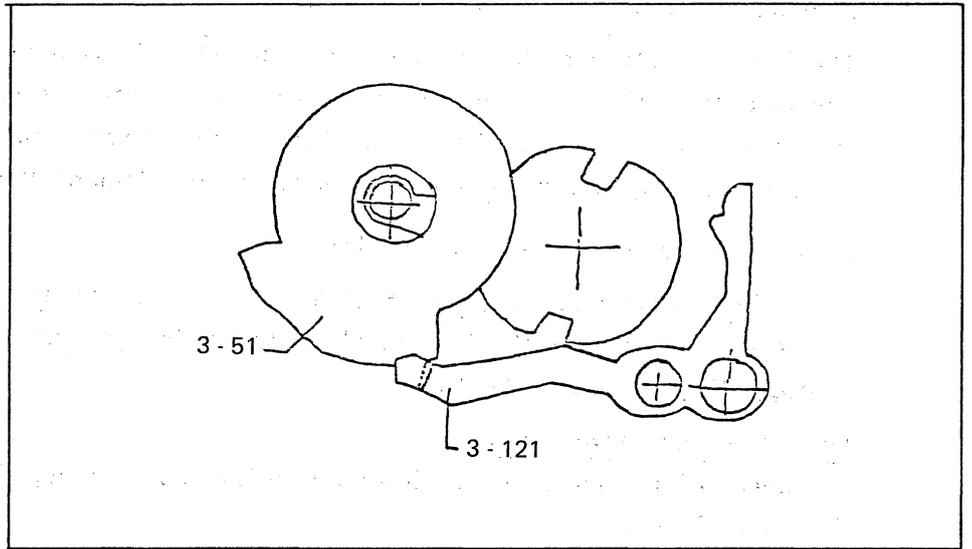
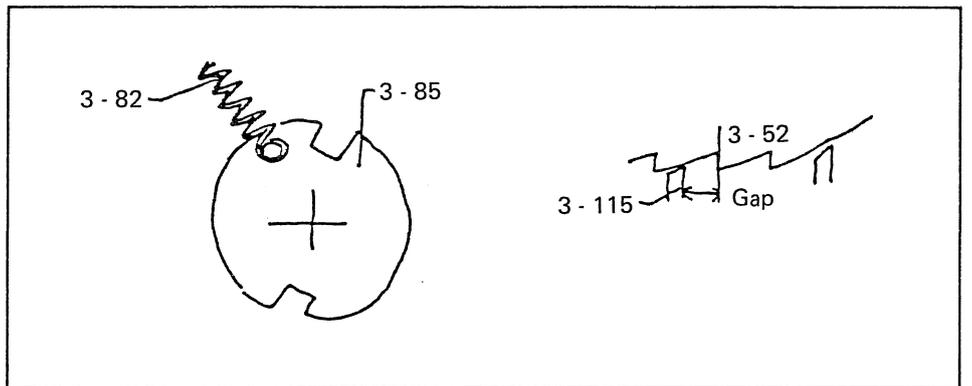


Fig. 26



8. Shutter release locking mechanism

- Locking during winding up a film

The lever (3 - 29) is pushed by the lock plate (1 - 37), causing the lever to be separated from the lock plate (1 - 26). Then, the shutter release can be depressed. During winding up a film (Unless the film advance lever is turned completely), the lever (3 - 30) is beneath the lock plate (1 - 26), locking the shutter release.

- Locking shutter release at other modes

When the exposure counter is in S to 1 or when no film is loaded.

Movement of the lever (3 - 33) caused by the spring (3 - 35) toward direction (A) is stopped by the cam (3 - 52).

When the cam moves away

Movement of the lever (3 - 33) toward direction (A) is stopped by the head of the lever (3 - 121).

Fig. 27

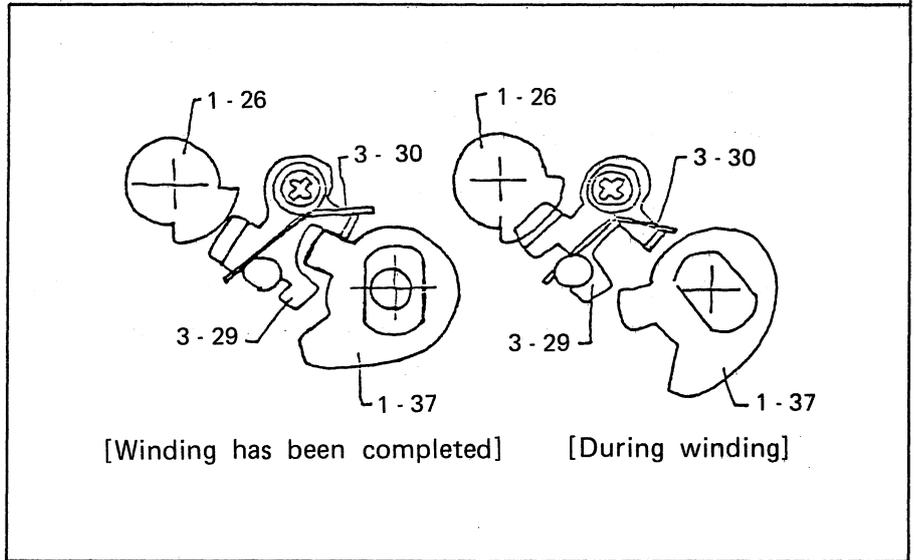
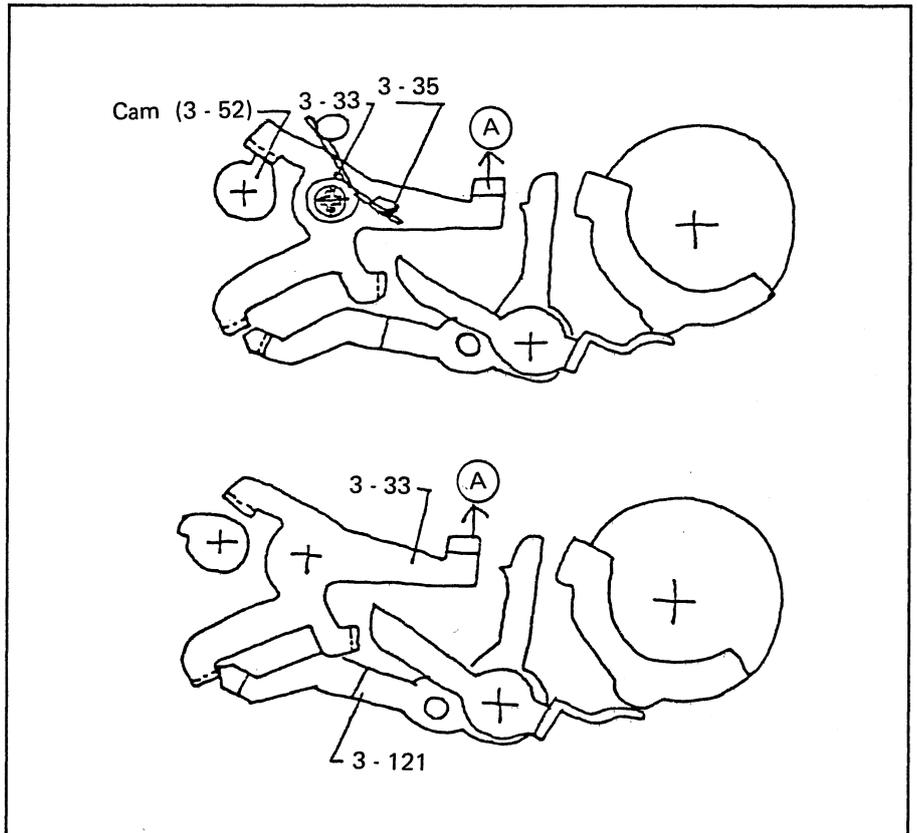


Fig. 28



Before the lever (3 - 121) drops down

The lever (3 - 33) moves freely to direction (A) because the lever (3 - 121) has run away. Therefore, movement of the lever (3 - 33) is stopped by the lever (3 - 40).

When the film ends

When the 16th frame (120 film) or 31st frame (220 film) is exposed, the lever (3 - 121) runs away.

Then the head of the lever (3 - 121) disengages, causing the lever (3 - 33) to move toward direction (A), and thus, the shutter release is locked.

Fig. 29

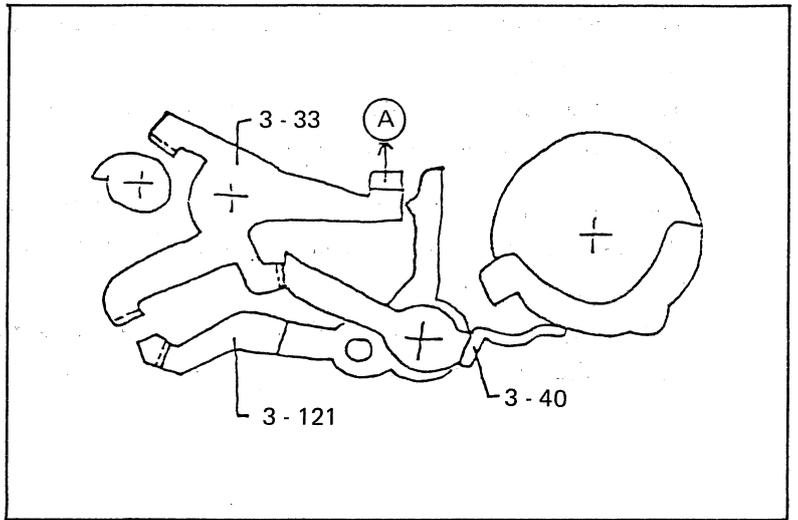
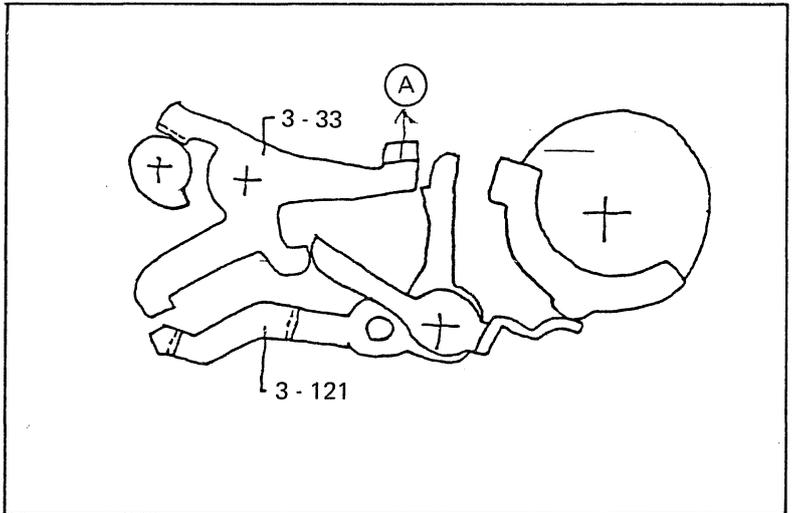


Fig. 30



- Locking the shutter release when the front cover mechanism is in the folded state.

The leaf spring (5 - 16) locks the lever (6 - 11), causing the interlock lever (3 - 110) to be pulled.

Then, the shaft (3 - 73) enters beneath the release plate assembly (3 - 11).

Thus, the shutter release cannot be depressed.

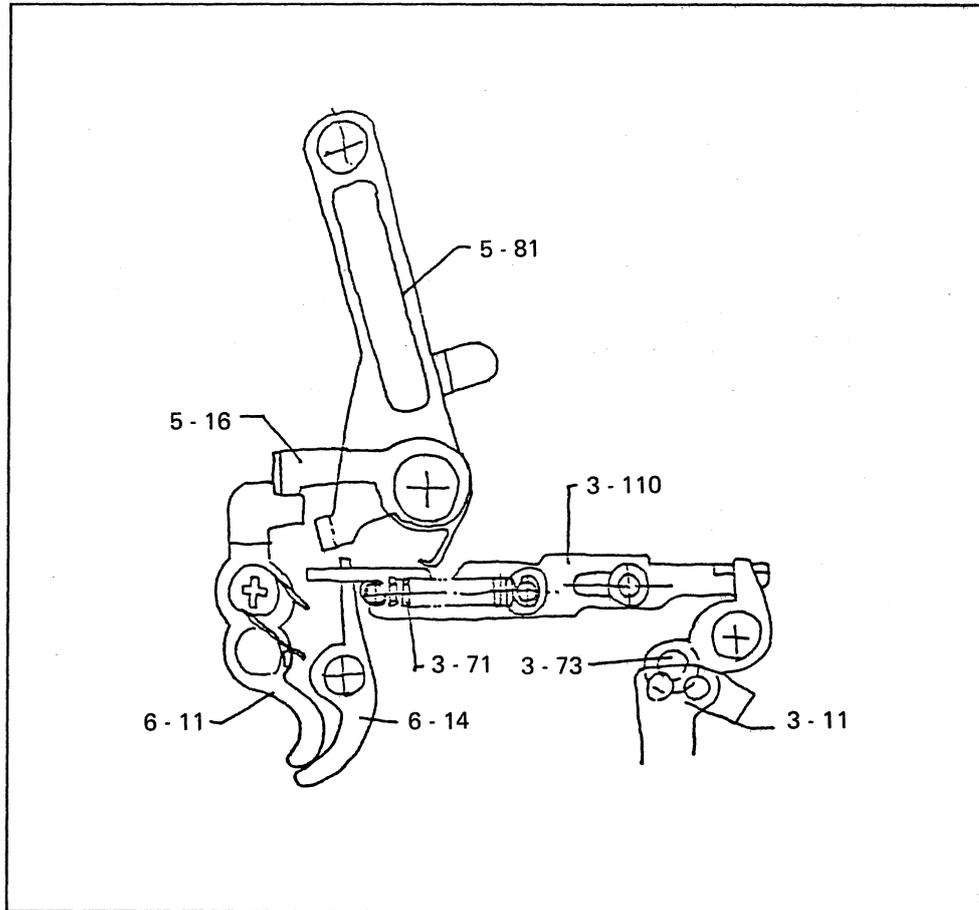
When the shutter release is not locked normally, check the leaf spring (5 - 16).

If this leaf spring is disengaged with the guide shaft (5 - 13), positioning cannot be made correctly.

Check the set screw (5 - 20) to insure that it is tightened securely.

Check that the lever (3 - 110) is caused to move smoothly by the spring (3 - 71).

Fig. 31



9. Front cover linkage mechanism

[MOTION]

[Opening]

- The lock levers (5 - 62 and 5 - 80) must hold the collar (4 - 6) securely.
 The housing is held by the rising portion of the base plate (5 - 60) and collar (4 - 6).
- Check hooks (A), (B) and (C) to insure that they are functioning correctly.
- Pay particular attention on the relationship between the springs (5 - 42 and 5 - 43) and levers (5 - 80 and 5 - 62).
The springs should not be held or bit. Further, the spring force must be transmitted to the levers smoothly.
- Use a collar of the optimum diameter.
- The caulking must have been made correctly.

[Closing (Folding)]

Make sure that the hooks (A), (B) and (C) (6 positions) disengage correctly when the push lever (5 - 50) is pressed.

Fig. 32

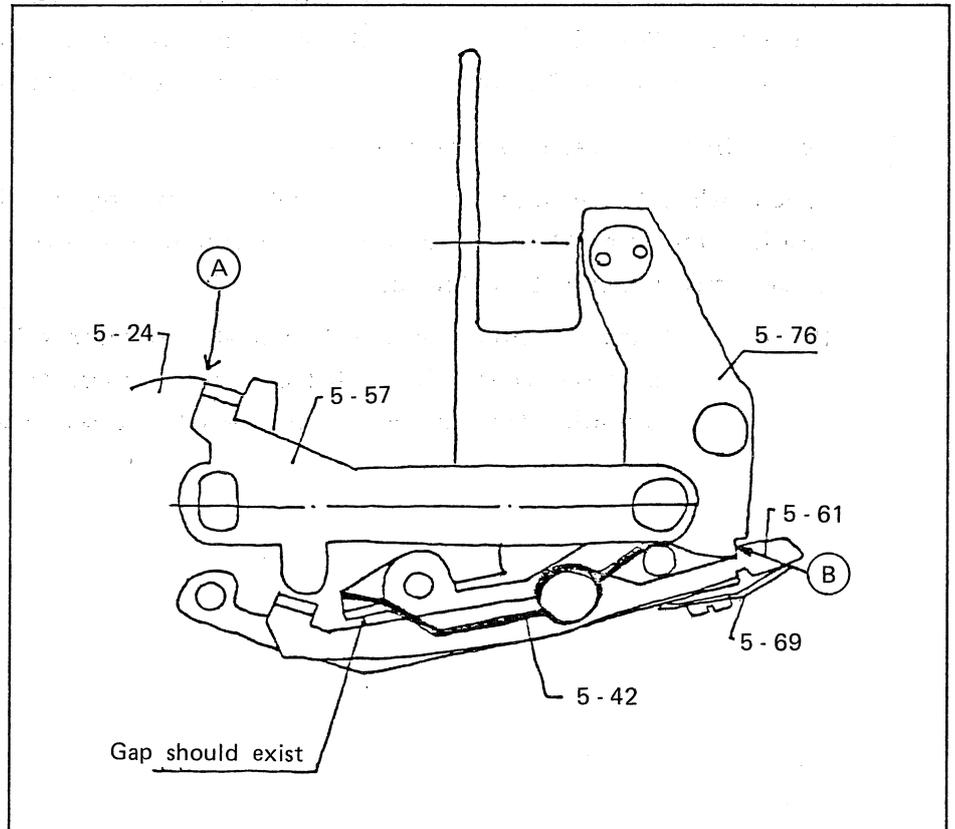
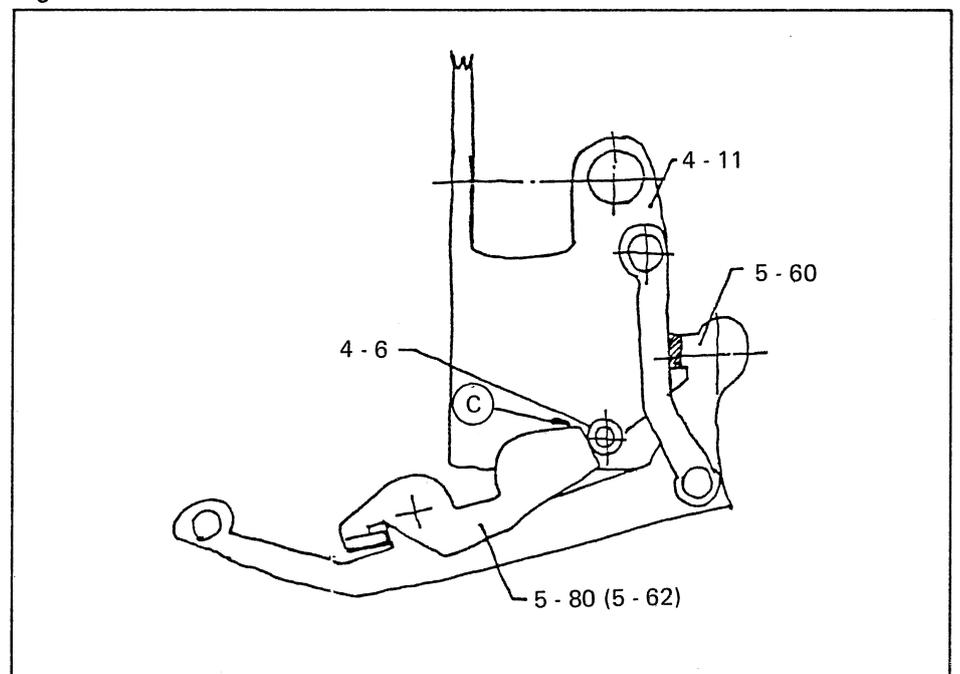


Fig. 33



○ Folding the linkage mechanism

Smoothness of folding is affected by strength of the bellows.

When the bellows is deformed, apply water to the interior of the bellows, reform it, and leave it for 24 hours or longer with the bellows folded.

○ Lens infinity set safety set safety mechanism

Except when the focusing ring of the helicoid assembly (4 - 41) is in the infinite position, the lever (4 - 3) engages with the arm of the base plate, causing the linkage mechanism not be folded.

REASON: When the front cover is folded at a position other than the infinity, the cover cannot be folded correctly because the lens is moved forward. This also causes the lens to be scratched.

Fig. 34

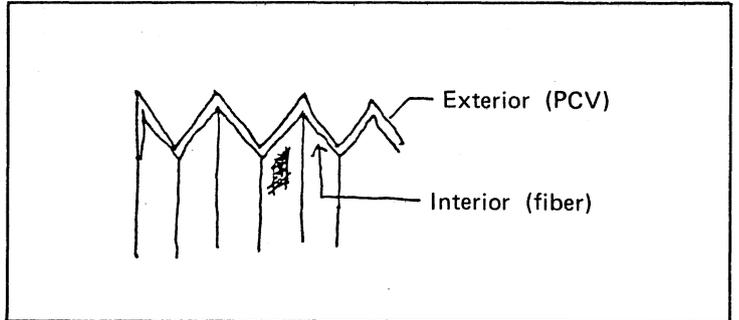
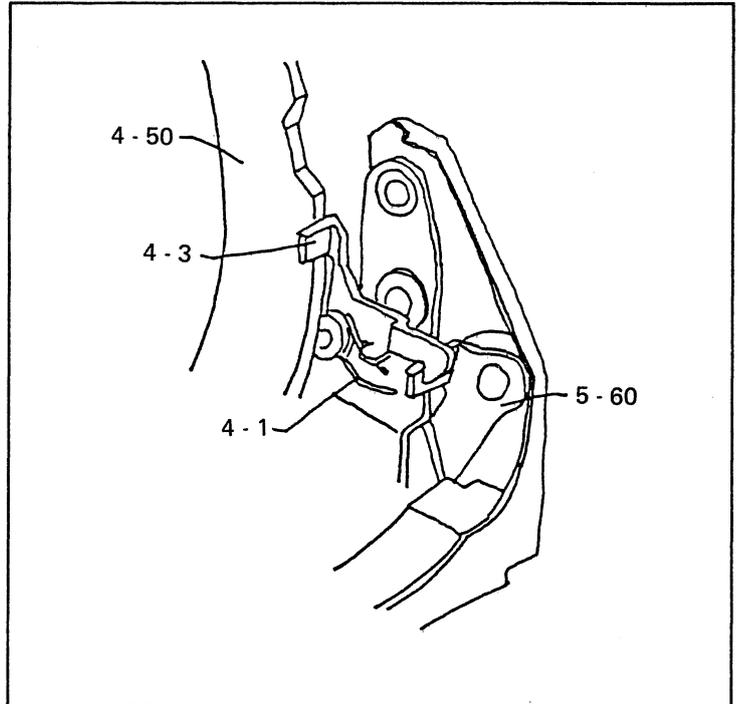


Fig. 35



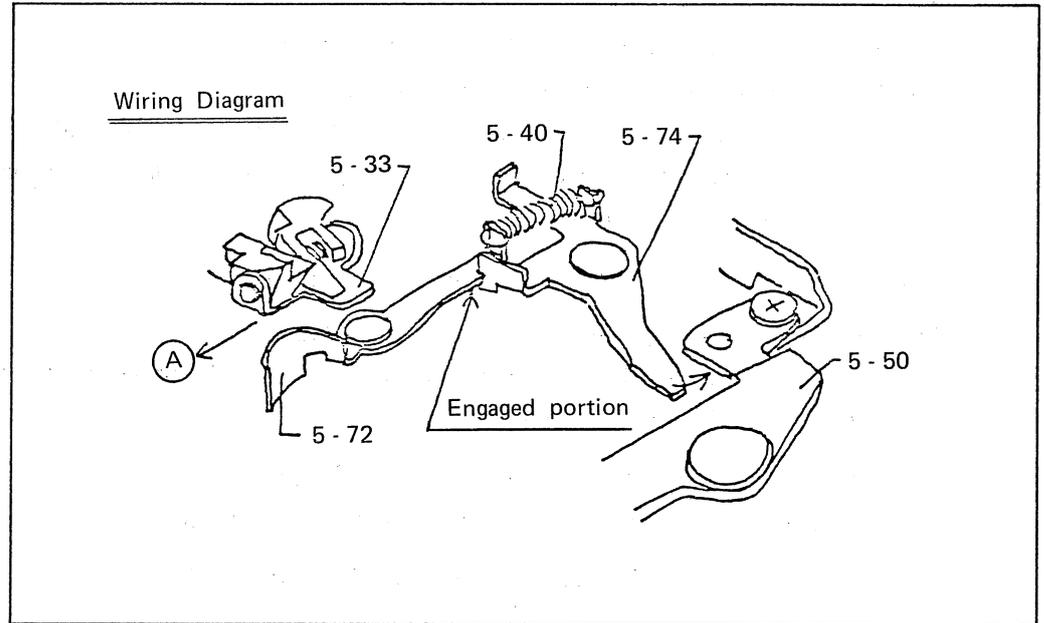
○ Film advance end sensing safety mechanism

When the film is advanced to the next frame, the hook portions of the levers (5 - 72 and 5 - 74) engage, the lever (5 - 74) runs away from the push lever (5 - 50), and the front cover can be folded.

When the shutter is released, the set lever (5 - 33) moves to the arrow (A), the levers (5 - 72 and 5 - 74) disengage, the head of the lever (5 - 74) enters beneath the push lever (5 - 50), causing the front cover not to be folded.

When the film advance lever is wound up, the set lever (5 - 33) pushes the lever (5 - 40), causing the above shown engaged portion to be engaged.

Fig. 36



10. Adjustment of electrical circuit

○ Wiring

Perform wiring by referring to the wiring diagram.

No short-circuit or bridged soldering should exist.

Pay particular attention on the lead wires extended from the shutter assembly so that they are not held between parts or they are not pulled unreasonably.

The lead wires may be broken.

○ Adjustment of S. F. T. value potentiometer voltage

To adjust this voltage, use variable resistor VR1.

Measure voltage across the terminals to which blue and green lead wires are connected from the shutter assembly.

Adjust voltage so that $V_2 - V_1 = 373.1 \pm 2 \text{ mV}$.

where, V_1 : Voltage at ASA 1600 T 1/1 F3.4

V_2 : Voltage at ASA 25 T 1/500 F22

○ Adjustment of voltage across IC Pin No. 5 and 16

To adjust this voltage, use VR3. The rated voltage is $205 \pm 2 \text{ mV}$.

○ Adjustment of LED display

Adjust variable resistor VR2 so that the center LED lights at the following settings.

ASA : 100

F : 5.6

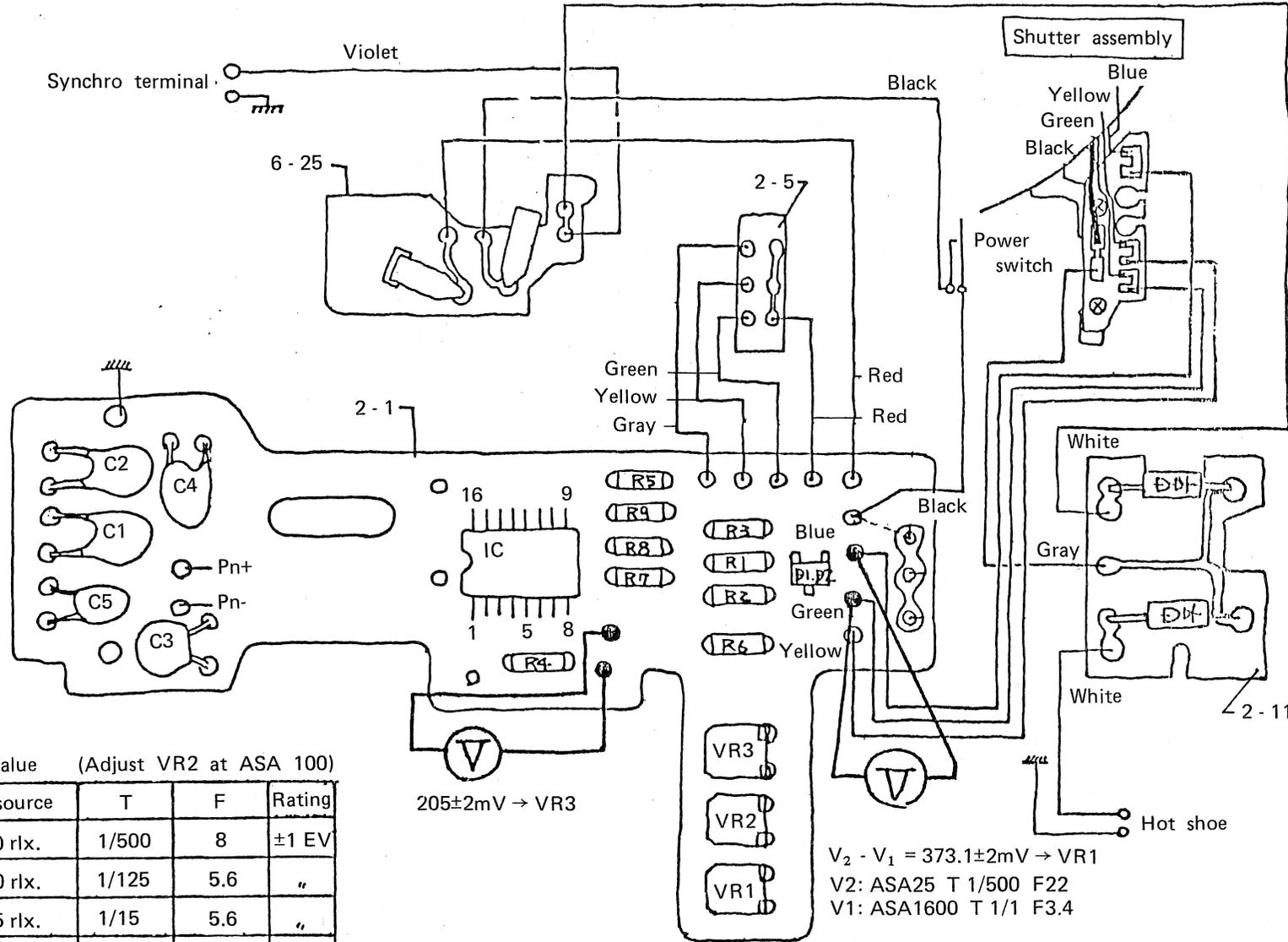
T : 1/125

LV : 12 (Brightness 1800 rlx.)

In this case, used K-value is 1.3.



Fig. 38



LED display value (Adjust VR2 at ASA 100)

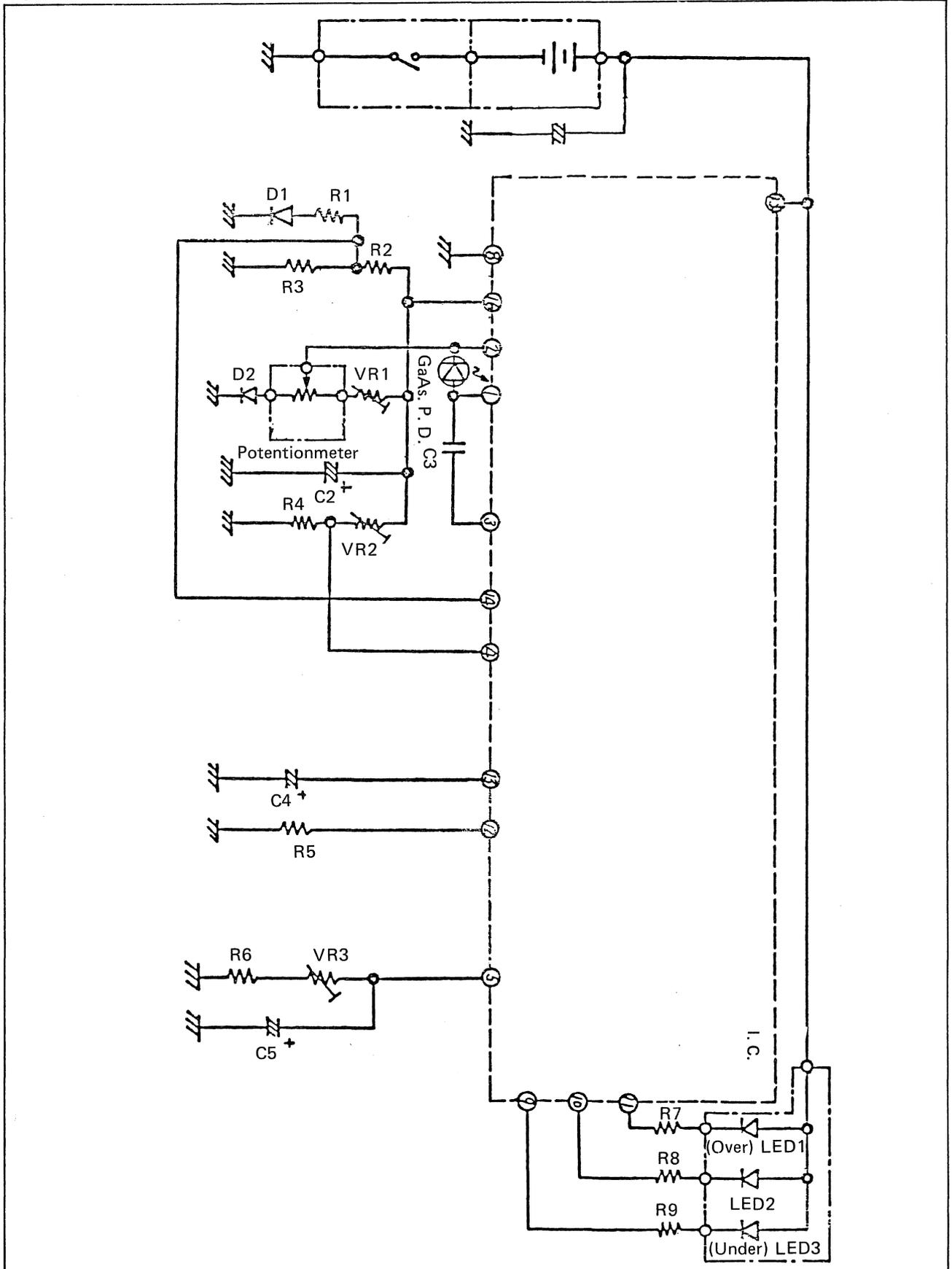
| LV | Light source | T | F | Rating |
|----|--------------|-------|-----|--------|
| 15 | 14390 rlx. | 1/500 | 8 | ±1 EV |
| 12 | 1800 rlx. | 1/125 | 5.6 | " |
| 9 | 225 rlx. | 1/15 | 5.6 | " |
| 6 | 28 rlx. | 1/2 | 5.6 | " |

○ IC TA. 2F 7646F pin operations

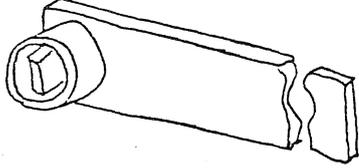
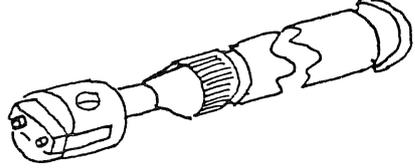
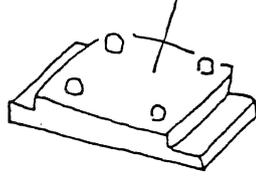
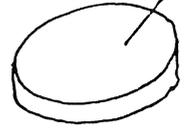
| Pin No. | Name | Operation |
|---------|--|--|
| 1 | Photocell (−) input | |
| 2 | S. F. T value input | |
| 3 | S. F. T. L output | About 18.2 mV/EV $\frac{V_2 - V_1}{20.5} = \frac{373.1}{20.5}$ = 18.2 |
| 4 | S. F. T. L output adjust terminal | LED display value adjustment |
| 5 | LED lighting width adjust terminal | |
| 6 | | |
| 7 | | |
| 8 | GND | |
| 9 | LED terminal (Under) | ON at 0.5V or below, OFF at 1.5V or higher |
| 10 | LED terminal (Proper) | ON at 0.5V or below, OFF at 1.5V or higher |
| 11 | LED terminal (Over) | ON at 0.5V or below, OFF at 1.5V or higher |
| 12 | Battery check terminal | LED goes out when voltage is about 2.0V |
| 13 | Output stabilizing terminal | LED is unstable under OPEN state |
| 14 | Temperature guarantee circuit terminal | |
| 15 | IC poower supply (+) | Battery voltage |
| 16 | Reference voltage | 1.25V |

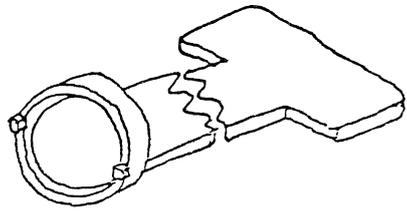
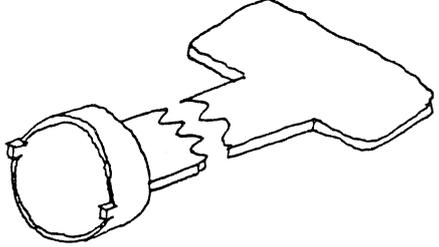
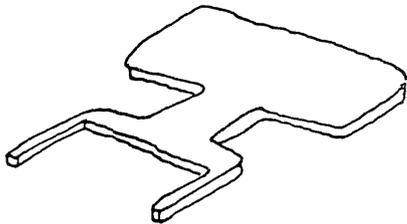


Fig. 39



III SPECIAL TOOL LIST

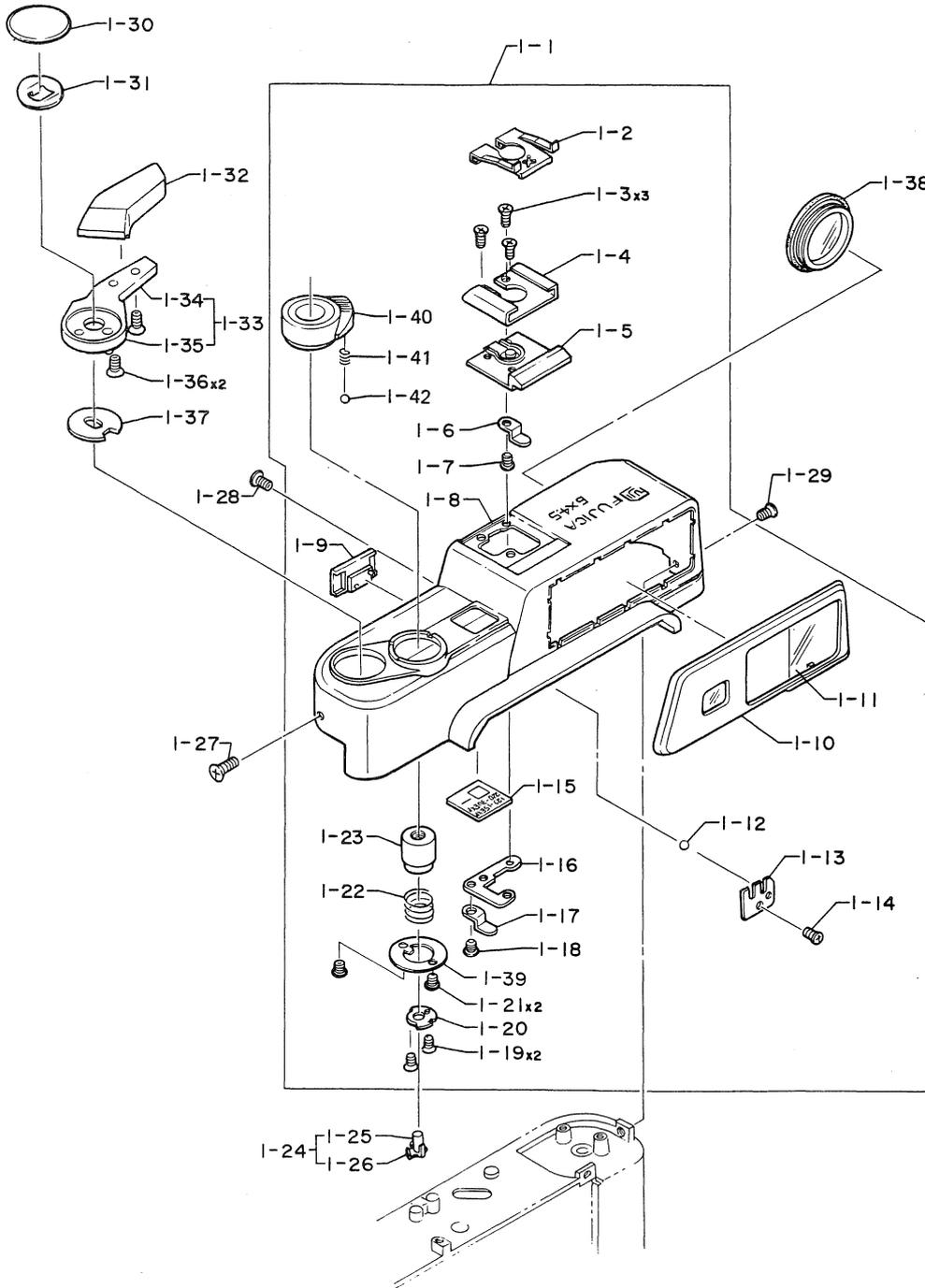
| No. | Name | Sketch and Application |
|--------|-----------------------|---|
| J11299 | Screw driver |  <p>Used to hold the set screw when tightening the set screw when adjusting spool friction. The subective set screws are 6 - 76 and 6 - 70.</p> |
| J11317 | Pin face screw driver |  <p>Used to install and remove the set screw (5 - 17).</p> |
| J11286 | Base plate |  <p>Reflecting surface</p> <p>Placed on the rail of the camera</p> |
| J11303 | Reflector |  <p>Reflecting surface</p> <p>Used when adjusting parallelism of the lens</p> |

| No. | Name | Sketch and Application |
|----------------|------------------|---|
| J11293 - 01 | Pin face spanner |  <p>Used for tightening ring (4 - 56).</p> |
| J11293 - 02 | Pin face spanner |  <p>Used for the rear lens (4 - 57).</p> |
| J11293 - 03 | Pin face spanner |  <p>Used for the front lens (4 - 59).</p> |



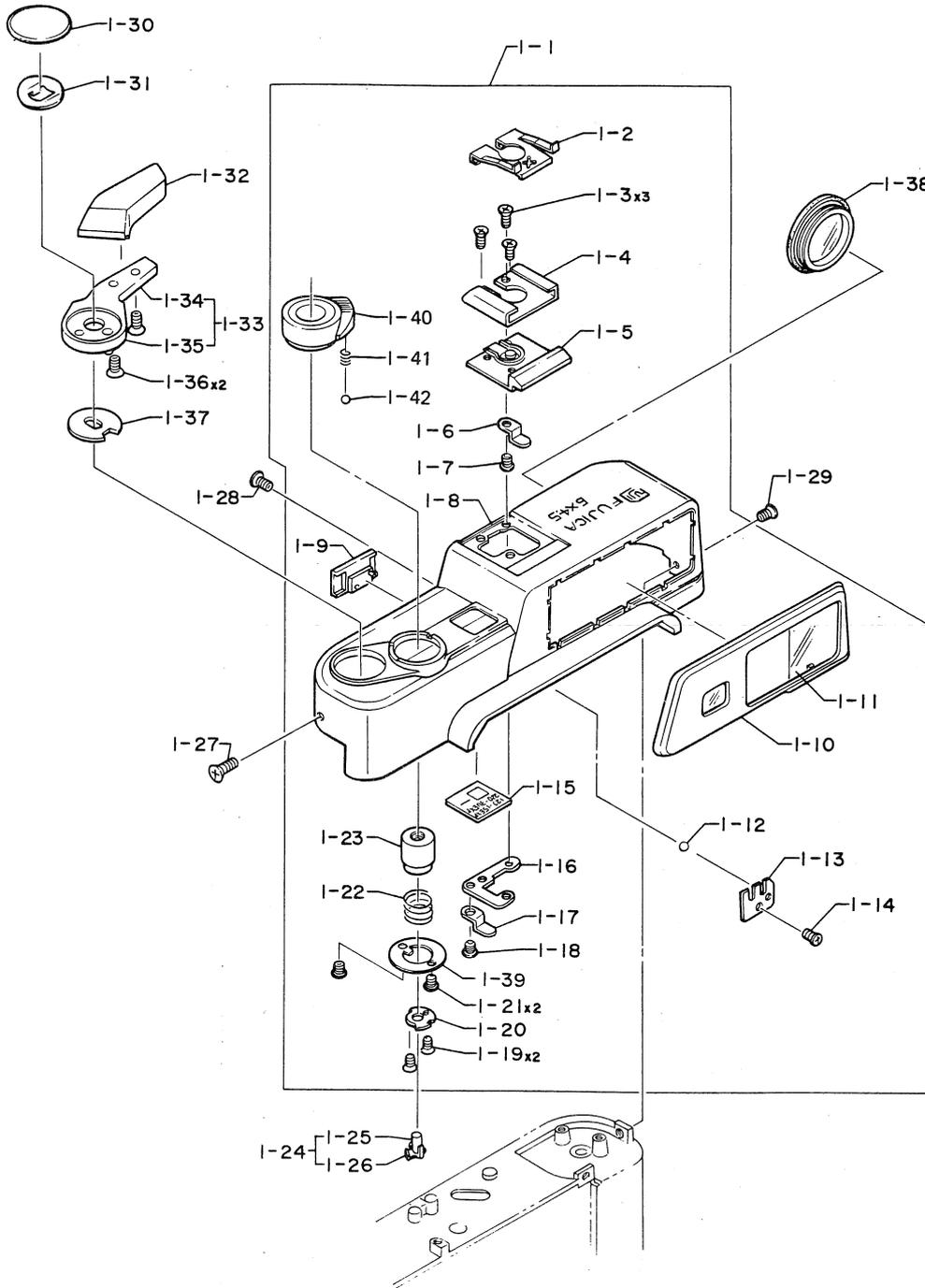
IV PARTS LIST

Fig. 1



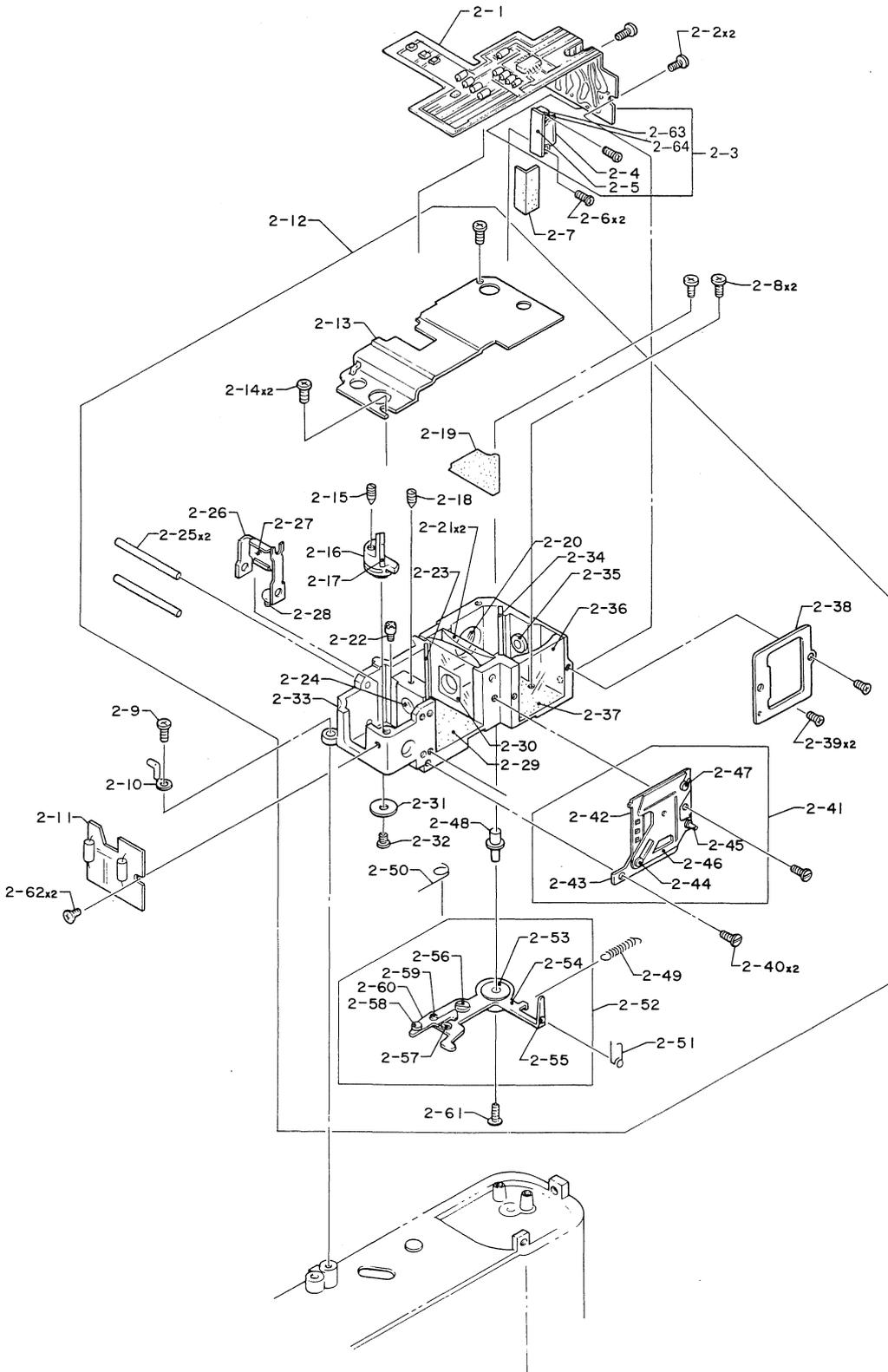
| REF NO. | PART NO. | PART NAME | Q'TY | REMARKS |
|---------|-------------|-----------------------------|------|---------|
| 1 - 1 | 303A3286000 | Top cover assembly | 1 | |
| 1 - 2 | 11B1492470 | Shoe cover | 1 | ST901BL |
| 1 - 3 | 111M170401N | Set screw | 3 | |
| 1 - 4 | 11B2252410 | Shoe | 1 | STX - 1 |
| 1 - 5 | 115A3286010 | Contact seat assembly | 1 | |
| 1 - 6 | 109B35871 | Contact | 1 | |
| 1 - 7 | 110M140121N | Set screw | 1 | |
| 1 - 9 | 16B3286143 | Film selector knob | 1 | |
| 1 - 10 | 84B3286111 | Window frame | 1 | |
| 1 - 11 | 6A3286090 | Window glass | 1 | |
| 1 - 12 | 200M20 | Steel ball | 1 | |
| 1 - 13 | 50B3286153 | Leaf spring | 1 | |
| 1 - 14 | 113M170201S | Set screw | 1 | |
| 1 - 15 | 6B3286224 | Exposure counter window | 1 | |
| 1 - 16 | 85B3286210 | Base plate | 1 | |
| 1 - 17 | 109B35871 | Contact | 1 | |
| 1 - 18 | 110M140121N | Set screw | 1 | |
| 1 - 19 | 111M140251S | Set screw | 1 | |
| 1 - 20 | 85B3286253 | Holder | 1 | |
| 1 - 21 | 113M140201S | Set screw | 2 | |
| 1 - 22 | 50B3286240 | Spring | 1 | |
| 1 - 23 | 16B3286233 | Shutter release | 1 | |
| 1 - 24 | 32A3280100 | Release bar assembly | 1 | |
| 1 - 27 | 53B3280360 | Screw | 1 | |
| 1 - 28 | 53B3280350 | Screw | 1 | |
| 1 - 29 | 53B3280350 | Screw | 1 | |
| 1 - 30 | 53B3280421 | Set screw | 1 | |
| 1 - 31 | 50B3280380 | Leaf spring | 1 | |
| 1 - 32 | 81B3280402 | Cover plate | 1 | |
| 1 - 33 | 47A3280050 | Film advance lever assembly | 1 | |
| 1 - 36 | 111M170503S | Set screw | 2 | |
| 1 - 37 | 85B3280372 | Lock plate | 1 | |

Fig. 1



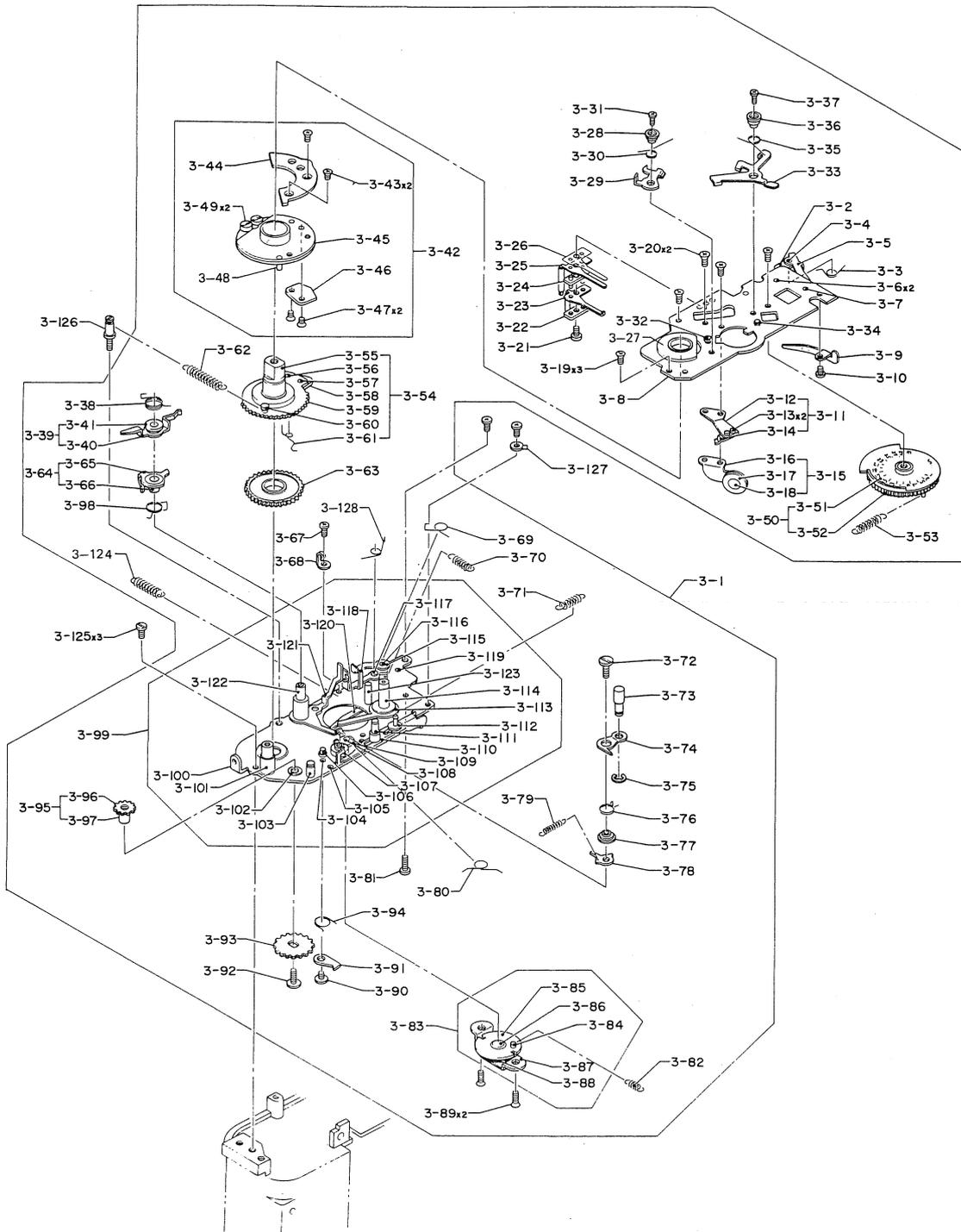
| REF NO. | PART NO. | PART NAME | Q'TY | REMARKS |
|------------|------------|-------------------|------|---------|
| 1 - 38 | 23A3280630 | Eyepiece assembly | 1 | |
| 1 - 39 | 85B3286190 | Stopper | 1 | |
| 1 - 40 | 16B3286180 | Button seat | 1 | |
| 1 - 41 | 50B3286200 | Spring | 1 | |
| 1 - 42 | 200M12 | Steel ball | 1 | |

Fig. 2



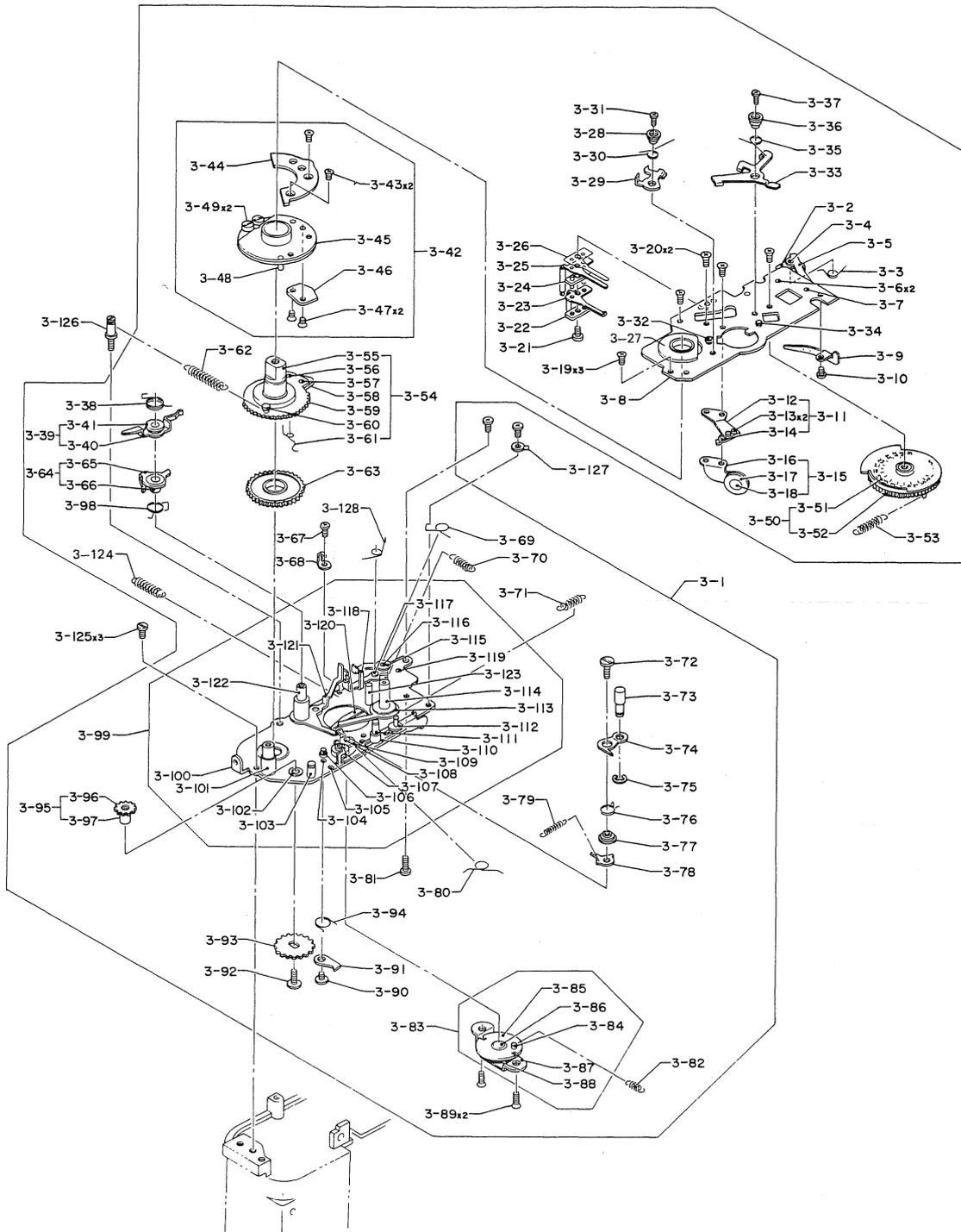
| REF NO. | PART NO. | PART NAME | Q'TY | REMARKS |
|---------|-------------|---------------------------|------|---------|
| 2 - 1 | 110A3288810 | Flexible PCB assembly | 1 | |
| 2 - 2 | 110M170301N | Screw | 2 | |
| 2 - 3 | 81A3287500 | LED holder assembly | 1 | |
| 2 - 5 | 110A3288590 | LED assembly (R) | 1 | |
| 2 - 6 | 110M140503S | Set screw | 2 | |
| 2 - 7 | 27B3287870 | Light shielding paper | 1 | |
| 2 - 8 | 110M200551S | Screw | 2 | |
| 2 - 9 | 110M200551S | Screw | 1 | |
| 2 - 10 | 109B72560 | Staple | 1 | |
| 2 - 11 | 110A3289100 | PCB assembly | 1 | |
| 2 - 12 | 99A51321A00 | Range finder assembly | 1 | |
| 2 - 13 | 11B3287640 | Cover | 1 | |
| 2 - 14 | 110M170251S | Screw | 2 | |
| 2 - 15 | 53B32460 | Adjust screw | 1 | |
| 2 - 18 | 120M200503F | Screw | 1 | |
| 2 - 19 | 27B3287790 | Velveteen (I) | 1 | |
| 2 - 29 | 27B3287800 | Velveteen (II) | 1 | |
| 2 - 31 | 55B2324850 | Washer | 1 | |
| 2 - 32 | 110M170251S | Screw | 1 | |
| 2 - 37 | 27B3287810 | Velveteen (III) | 1 | |
| 2 - 39 | 111M140251S | Screw | 2 | |
| 2 - 40 | 53B2193440 | Screw | 2 | |
| 2 - 41 | 29A3287510 | Virefinder frame assembly | 1 | |
| 2 - 49 | 50B1299093 | Spring | 1 | |
| 2 - 50 | 50B3287700 | Spring | 1 | |
| 2 - 51 | 50B3287830 | Spring | 1 | |
| 2 - 52 | 47A3287490 | Linkage assembly | 1 | |
| 2 - 56 | 53B32770 | Screw | 1 | |
| 2 - 61 | 53B32580 | Screw | 1 | |
| 2 - 62 | 110M140251S | Screw | 2 | |

Fig. 3



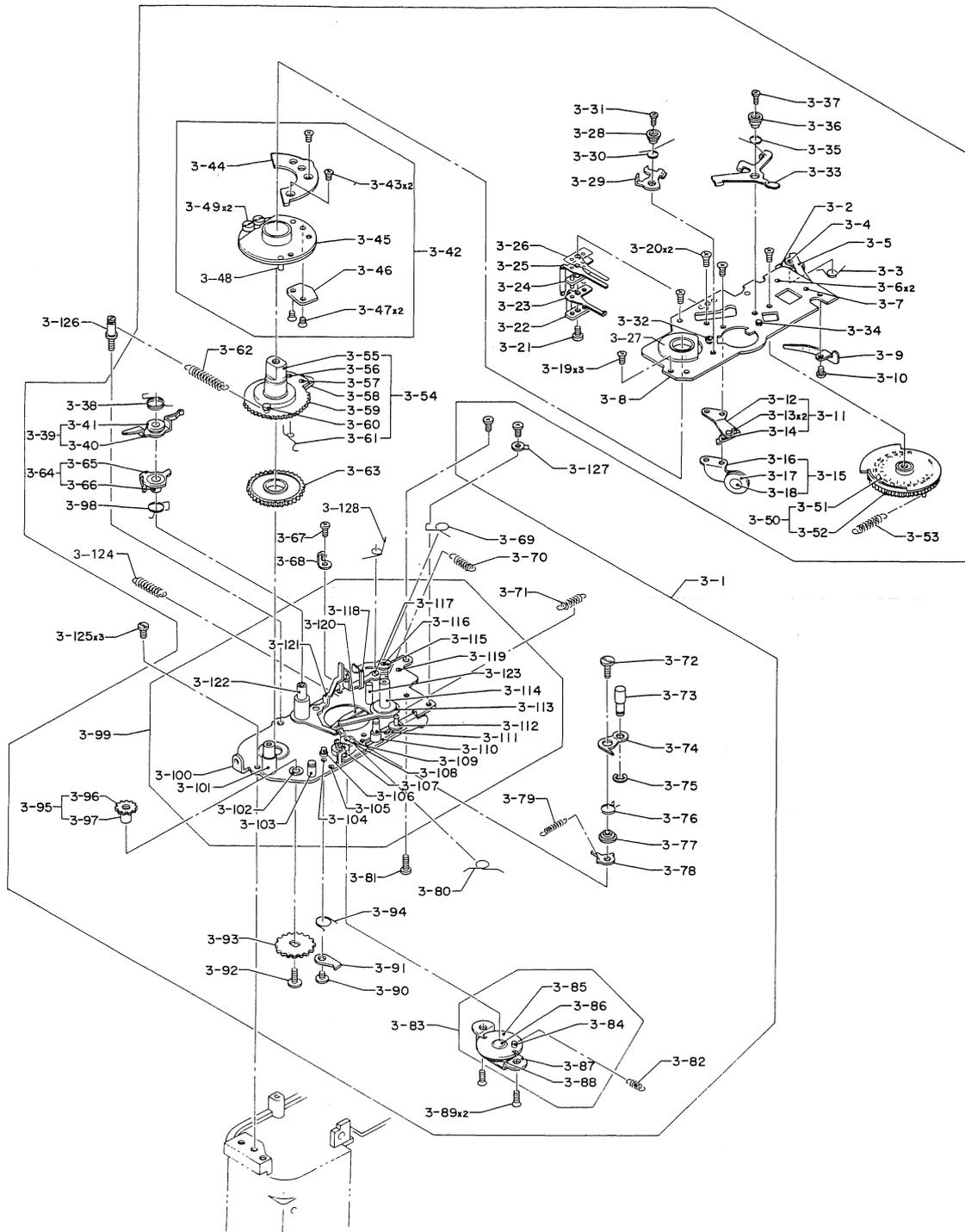
| REF NO. | PART NO. | PART NAME | Q'TY | REMARKS |
|---------|-------------|------------------------------------|------|---------|
| 3 - 1 | 310A3284950 | Film advance mechanism assembly | 1 | |
| 3 - 3 | 50B3284080 | Spring | 1 | |
| 3 - 9 | 50B3284070 | Leaf spring | 1 | |
| 3 - 10 | 110M140121N | Set screw | 1 | |
| 3 - 11 | 85A3284990 | Release plate assembly | 1 | |
| 3 - 15 | 85A3285000 | Pulley base assembly | 1 | |
| 3 - 19 | 111M170401S | Set screw | 3 | |
| 3 - 20 | 111M170201S | Set screw | 2 | |
| 3 - 21 | 110M140303S | Set screw | 1 | |
| 3 - 22 | 115B1278230 | Insulation plate | 1 | |
| 3 - 23 | 109B3284730 | Contact | 1 | |
| 3 - 24 | 115B127030 | Insulator | 1 | |
| 3 - 25 | 109B3284720 | Contact | 1 | |
| 3 - 26 | 109B3284820 | Insulator | 1 | |
| 3 - 28 | 42B3284910 | Collar | 1 | |
| 3 - 29 | 47B3284900 | Lever | 1 | |
| 3 - 30 | 50B3284921 | Spring | 1 | |
| 3 - 31 | 111M140251S | Set screw | 1 | |
| 3 - 33 | 47B3286480 | Lever | 1 | |
| 3 - 34 | 17B29290 | Shaft | 1 | |
| 3 - 35 | 50B3284921 | Spring | 1 | |
| 3 - 36 | 42B3286500 | Collar | 1 | |
| 3 - 37 | 111M140251S | Set screw | 1 | |
| 3 - 38 | 50B3286490 | Spring | 1 | |
| 3 - 39 | 47A3285140 | Lever assembly | 1 | |
| 3 - 42 | 36A3285130 | Large pulley assembly | 1 | |
| 3 - 43 | 111M170201S | Set screw | 2 | |
| 3 - 44 | 85B3284560 | Large cam | 1 | |
| 3 - 46 | 85B3284550 | Cam | 1 | |
| 3 - 47 | 111M140201S | Set screw | 2 | |
| 3 - 50 | 34A3285050 | Counter dial assembly | 1 | |
| 3 - 53 | 50B3284300 | Spring | 1 | |

Fig. 3



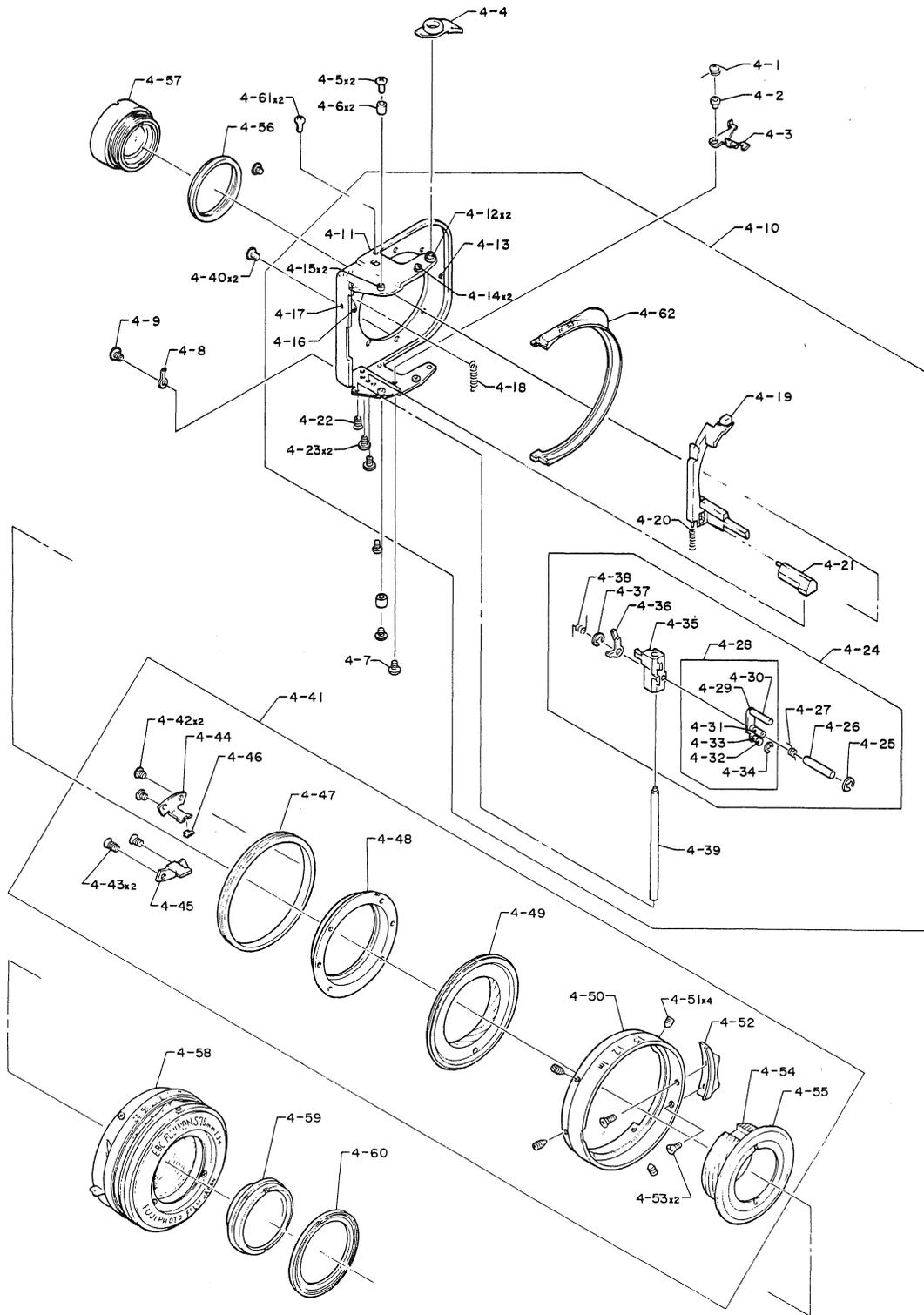
| REF NO. | PART NO. | PART NAME | Q'TY | REMARKS |
|---------|-------------|------------------------|------|---------|
| 3 - 54 | 34B3285080 | Ratchet wheel assembly | 1 | |
| 3 - 61 | 50B3284510 | Spring | 1 | |
| 3 - 62 | 50B3284661 | Spring | 1 | |
| 3 - 63 | 34B3284450 | Gear | 1 | |
| 3 - 64 | 47A3285090 | Release lever assembly | 1 | |
| 3 - 67 | 110M170453S | Set screw | 1 | |
| 3 - 68 | 111B72560 | Staple | 1 | |
| 3 - 69 | 50B3284270 | Spring | 1 | |
| 3 - 70 | 50B93500 | Spring | 1 | |
| 3 - 71 | 50B3281491 | Spring | 1 | |
| 3 - 72 | 53B3284380 | Set screw | 1 | |
| 3 - 73 | 17B3284790 | Shaft | 1 | |
| 3 - 74 | 47B3284770 | Lever | 1 | |
| 3 - 75 | 191M012T | E - clip | 1 | |
| 3 - 76 | 50B3284870 | Spring | 1 | |
| 3 - 77 | 42B3284780 | Collar | 1 | |
| 3 - 78 | 85B3284360 | Swing lever | 1 | |
| 3 - 79 | 17B3284940 | Spring | 1 | |
| 3 - 80 | 50B3284430 | Spring | 1 | |
| 3 - 81 | 110M140453S | Set screw | 1 | |
| 3 - 82 | 50B3284191 | Spring | 1 | |
| 3 - 83 | 41A3285030 | Plate assembly | 1 | |
| 3 - 89 | 110M170353S | Set screw | 2 | |
| 3 - 90 | 53B3284810 | Set screw | 1 | |
| 3 - 91 | 45B1061 | Claw | 1 | |
| 3 - 92 | 53B29190 | Set screw | 1 | |
| 3 - 93 | 34B3284120 | Gear | 1 | |
| 3 - 94 | 50B3284400 | Spring | 1 | |
| 3 - 95 | 34A3285110 | Gear shaft assembly | 1 | |
| 3 - 98 | 50B3284672 | Spring | 1 | |
| 3 - 124 | 50B2458151 | Spring | 1 | |
| 3 - 125 | 110M200303S | Set screw | 3 | |

Fig. 3



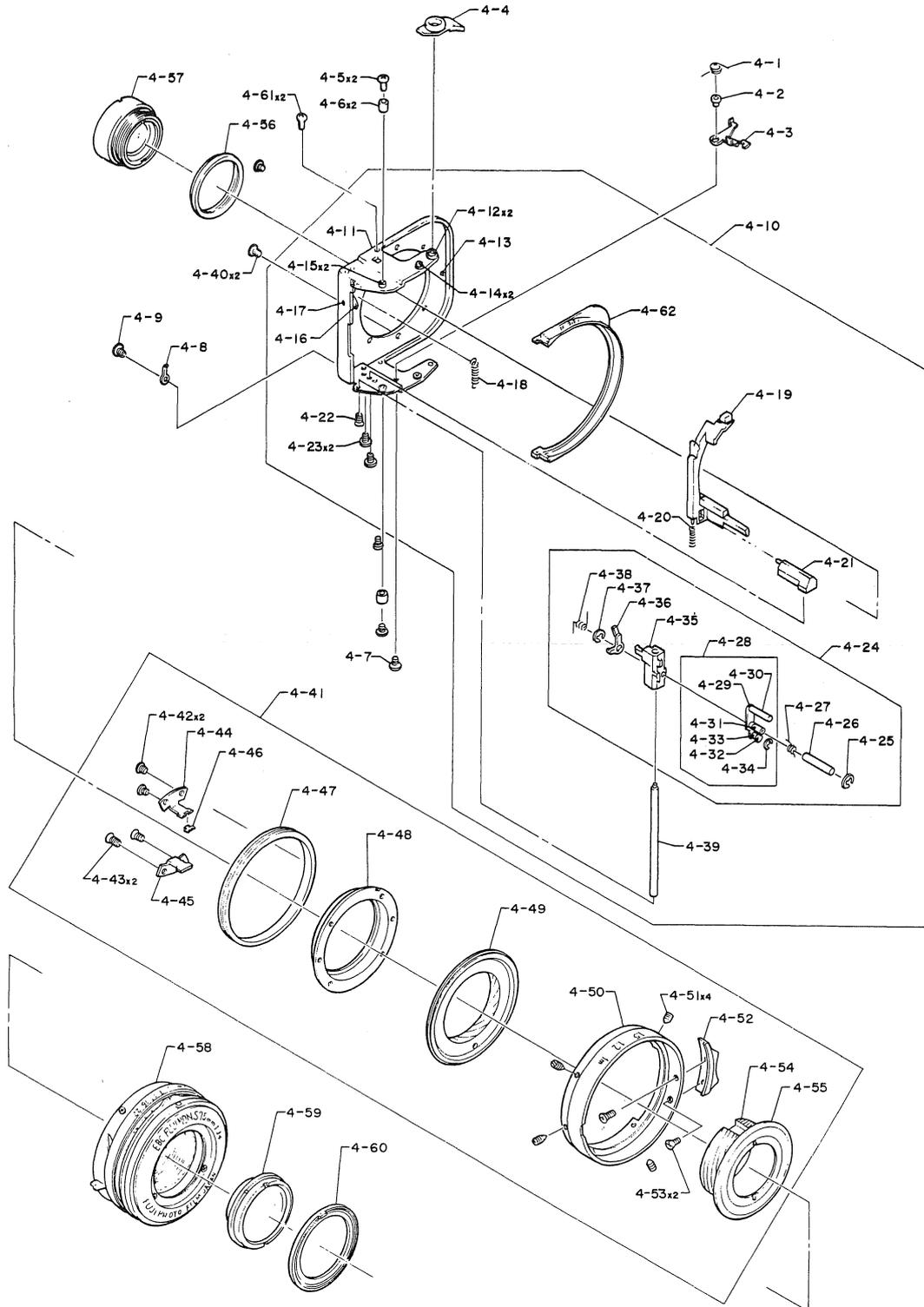
| REF NO. | PART NO. | PART NAME | Q'TY | REMARKS |
|------------|------------|-----------|------|---------|
| 3 - 126 | 53B3281730 | Screw | 1 | |
| 3 - 127 | 111B72560 | Staple | 1 | |
| 3 - 128 | 50B3284330 | Spring | 1 | |

Fig. 4



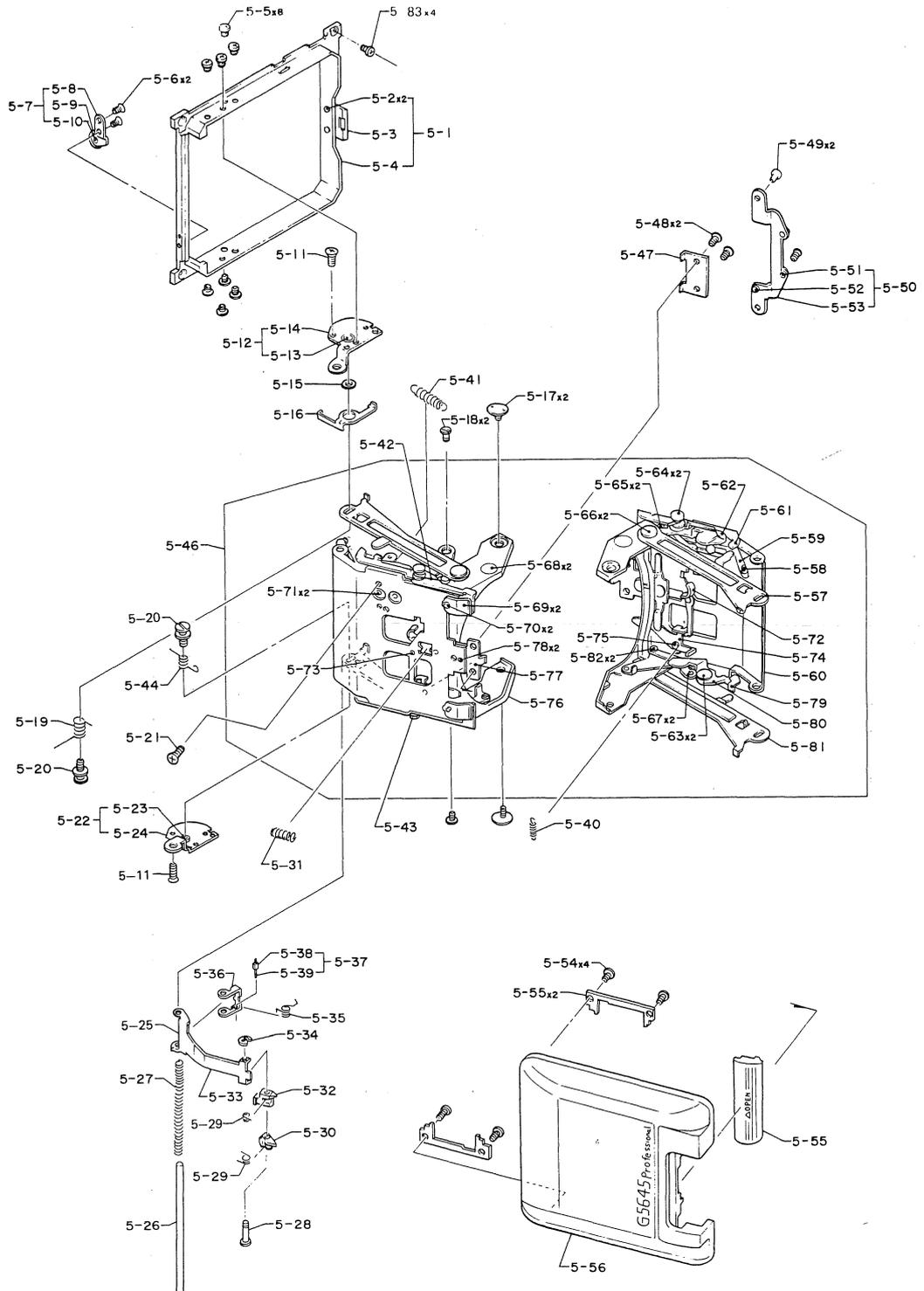
| REF NO. | PART NO. | PART NAME | Q'TY | REMARKS |
|---------|-------------|-----------------------|-------|---------|
| 4 - 1 | 50B3285540 | Spring | 1 | |
| 4 - 2 | 32B3285530 | Shaft | 1 | |
| 4 - 3 | 47B3285520 | Lever | 1 | |
| 4 - 4 | 11B3280700 | Index cover | 1 | |
| 4 - 5 | 110M140303S | Set screw | 2 | |
| 4 - 6 | 23B3285510 | Collar D = 3 ϕ | 0 ~ 2 | |
| | 23B3285550 | Collar D = 3.4 ϕ | 0 ~ 2 | |
| | 23B3285560 | Collar D = 2.6 ϕ | 0 ~ 2 | |
| | 23B3282780 | Collar D = 2.8 ϕ | 0 ~ 2 | |
| | 23B3282790 | Collar D = 3.2 ϕ | 0 ~ 2 | |
| | 23B3282800 | Collar D = 3.6 ϕ | 0 ~ 2 | |
| 4 - 7 | 110M140351S | Set screw | 1 | |
| 4 - 8 | 85B3282821 | Staple | 1 | |
| 4 - 9 | 110M140161S | Set screw | 1 | |
| 4 - 10 | 12A3282030 | Housing assembly | 1 | |
| 4 - 18 | 50B3285330 | Spring | 1 | |
| 4 - 19 | 47B3285197 | Lever | 1 | |
| 4 - 20 | 50B3285321 | Spring | 1 | |
| 4 - 21 | 81B3285200 | Rod | 1 | |
| 4 - 22 | 111M140301S | Set screw | 1 | |
| 4 - 23 | 113M170401S | Set screw | 2 | |
| 4 - 24 | 82A3282040 | Slider assembly | 1 | |
| 4 - 25 | 191M012T | E - clip | 1 | |
| 4 - 26 | 32B3285280 | Shaft | 1 | |
| 4 - 27 | 50B3285313 | Spring | 1 | |
| 4 - 28 | 47A3282100 | Lever assembly | 1 | |
| 4 - 34 | 191M012T | E - clip | 1 | |
| 4 - 35 | 82B3285270 | Slider | 1 | |
| 4 - 36 | 47B3285260 | Lever | 1 | |
| 4 - 37 | 191M012T | E - clip | 1 | |
| 4 - 38 | 50B3285300 | Spring | 1 | |
| 4 - 39 | 32B3285290 | Shaft | 1 | |

Fig. 4



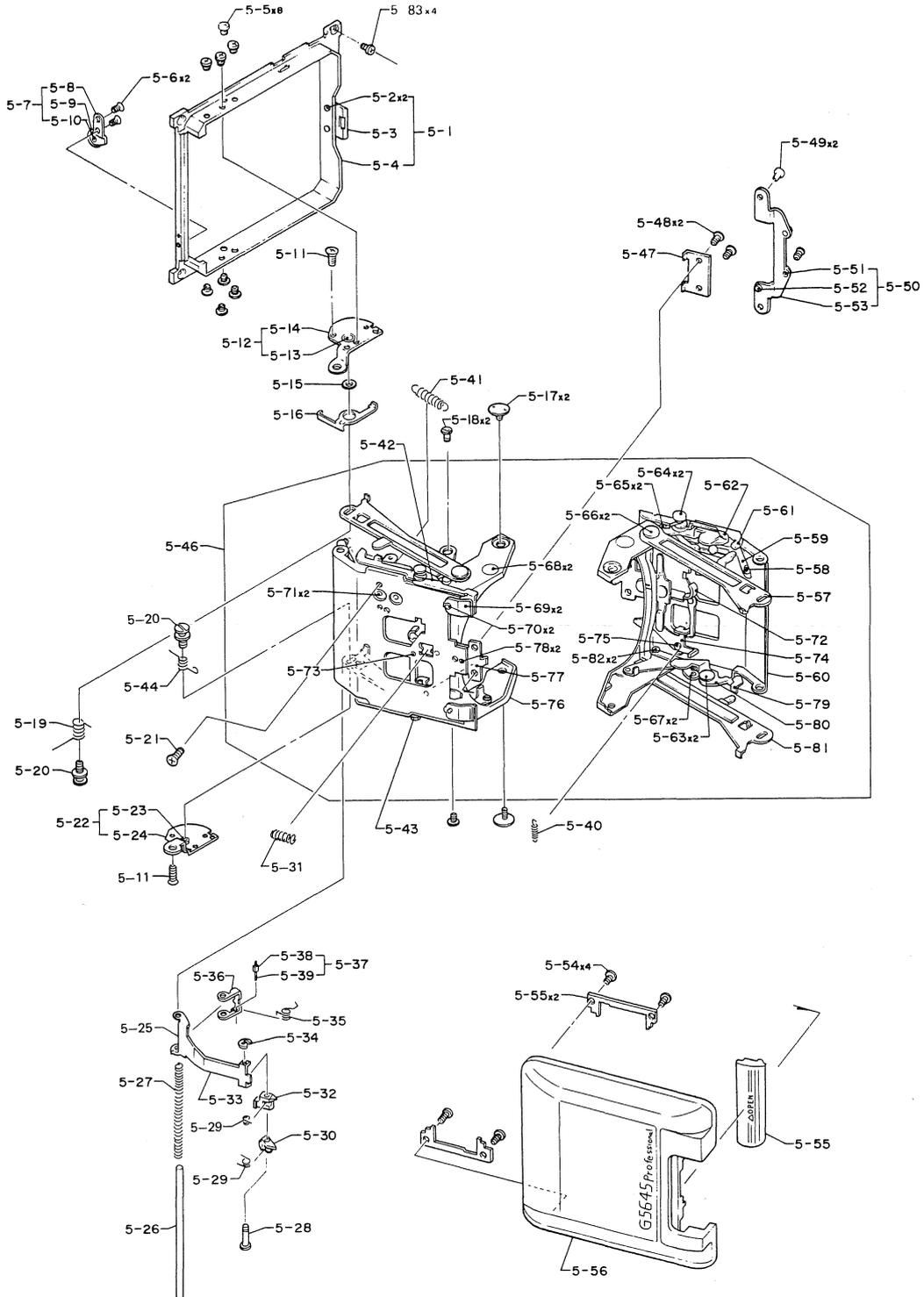
| REF NO. | PART NO. | PART NAME | Q'TY | REMARKS |
|---------|-------------|--------------------------|------|---------|
| 4 - 40 | 111M140221S | Set screw | 2 | |
| 4 - 41 | 21A3283050 | Helicoid assembly | 1 | |
| 4 - 42 | 110M140253T | Set screw | 2 | |
| 4 - 43 | 111M140253T | Set screw | 2 | |
| 4 - 44 | 30B3282970 | Helicoid guide | 1 | |
| 4 - 45 | 30B3282980 | Helicoid guide | 1 | |
| 4 - 46 | 27B3289470 | Light shielding material | 1 | |
| 4 - 50 | 23B3283000 | Focusing ring | 1 | |
| 4 - 51 | 120M170301S | Set screw | 4 | |
| 4 - 52 | 16B3283090 | Knob | 1 | |
| 4 - 53 | 114A170301S | Set screw | 2 | |
| 4 - 56 | 23B3283030 | Hold ring | 1 | |
| 4 - 57 | 21A3289390 | Rear lens assembly | 1 | |
| 4 - 58 | 38A3389460 | Shutter assembly | 1 | |
| 4 - 59 | 21A3289380 | Front lens assembly | 1 | |
| 4 - 60 | 23B3280430 | Name ring | 1 | |
| 4 - 61 | 110M140201S | Set screw | 2 | |
| 4 - 62 | 11B3280470 | Mold | 1 | |

Fig. 5



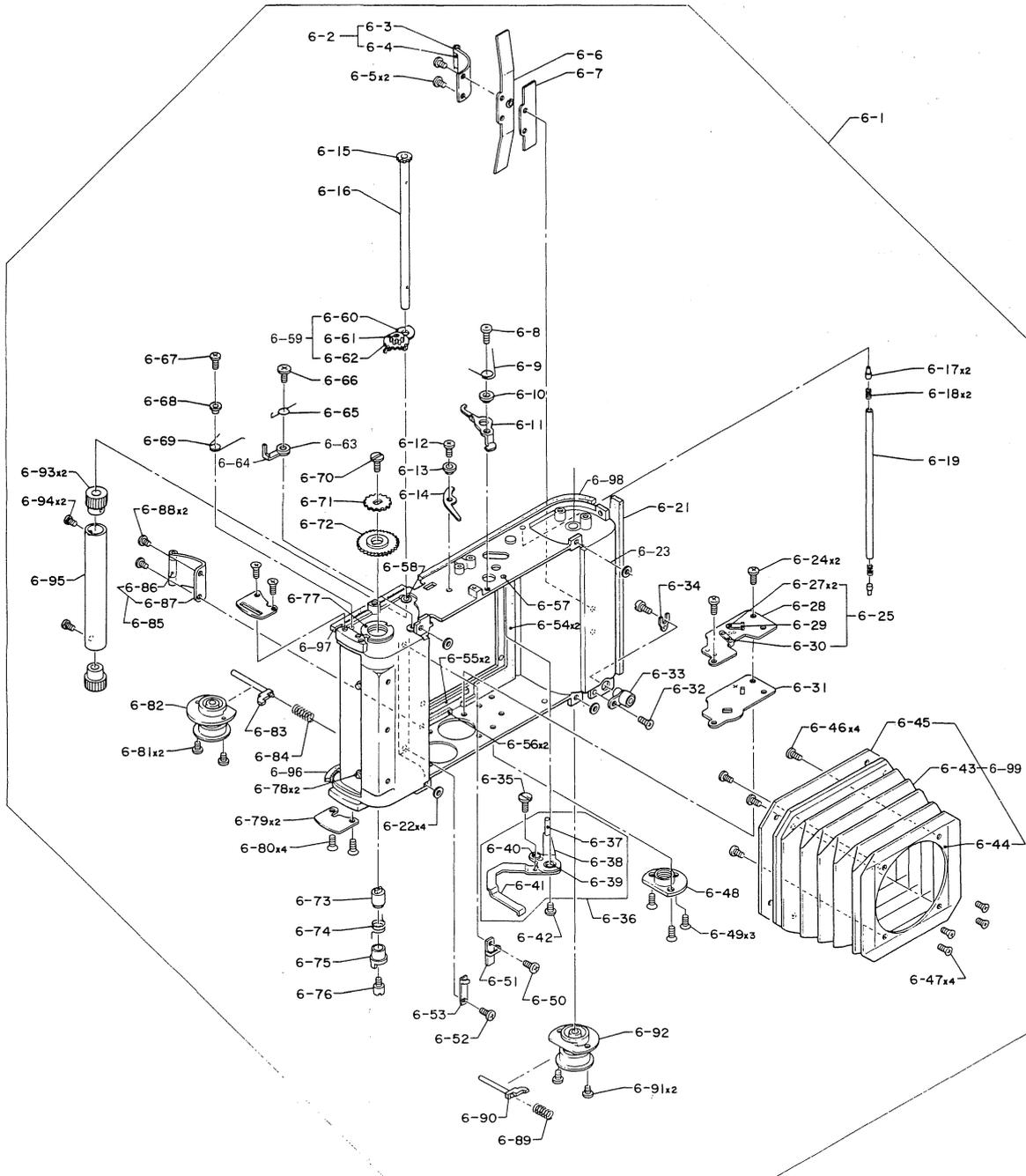
| REF NO. | PART NO. | PART NAME | Q'TY | REMARKS |
|---------|-------------|-----------------------------|-------|---------|
| 5 - 1 | 46A3282020 | Frame assembly | 1 | |
| 5 - 5 | 110M170301S | Set screw | 8 | |
| 5 - 6 | 111M170351S | Set screw | 1 | |
| 5 - 7 | 85A3282110 | Pulley base assembly | 1 | |
| 5 - 11 | 111M170701S | Set screw | 1 | |
| 5 - 12 | 48A3282080 | Upper shaft holder assembly | 1 | |
| 5 - 15 | 55B3285340 | Washer | 0 ~ 1 | |
| 5 - 16 | 50B3283910 | Leaf spring | 1 | |
| 5 - 17 | 53B3283810 | Screw | 2 | |
| 5 - 18 | 53B3283800 | Set screw | 2 | |
| 5 - 19 | 50B3283890 | Spring | 1 | |
| 5 - 20 | 53B3283751 | Set screw | 2 | |
| 5 - 21 | 110M140351S | Set screw | 1 | |
| 5 - 22 | 48A3282090 | Lower shaft holder assembly | 1 | |
| 5 - 25 | 111M170701S | Set screw | 1 | |
| 5 - 26 | 32B3282290 | Shaft | 1 | |
| 5 - 27 | 50B3282682 | Main spring | 1 | |
| 5 - 28 | 32B3283961 | Shaft | 1 | |
| 5 - 29 | 50B3283991 | Spring | 1 | |
| 5 - 30 | 82B3282732 | Claw | 1 | |
| 5 - 31 | 50B3283351 | Spring | 1 | |
| 5 - 32 | 82B3282741 | Claw | 1 | |
| 5 - 33 | 47B3283857 | Set lever | 1 | |
| 5 - 34 | 191M012T | E - clip | 1 | |
| 5 - 35 | 50B3282410 | Spring | 1 | |
| 5 - 36 | 85B3282330 | Wire lever | 1 | |
| 5 - 37 | 56A3280090 | Wire assembly | 1 | |
| 5 - 40 | 50B3282770 | Spring | 1 | |
| 5 - 41 | 50B3283930 | Spring | 1 | |
| 5 - 42 | 50B3283472 | Spring | 1 | |
| 5 - 43 | 50B3283482 | Spring | 1 | |
| 5 - 44 | 50B3283900 | Spring | 1 | |

Fig. 5



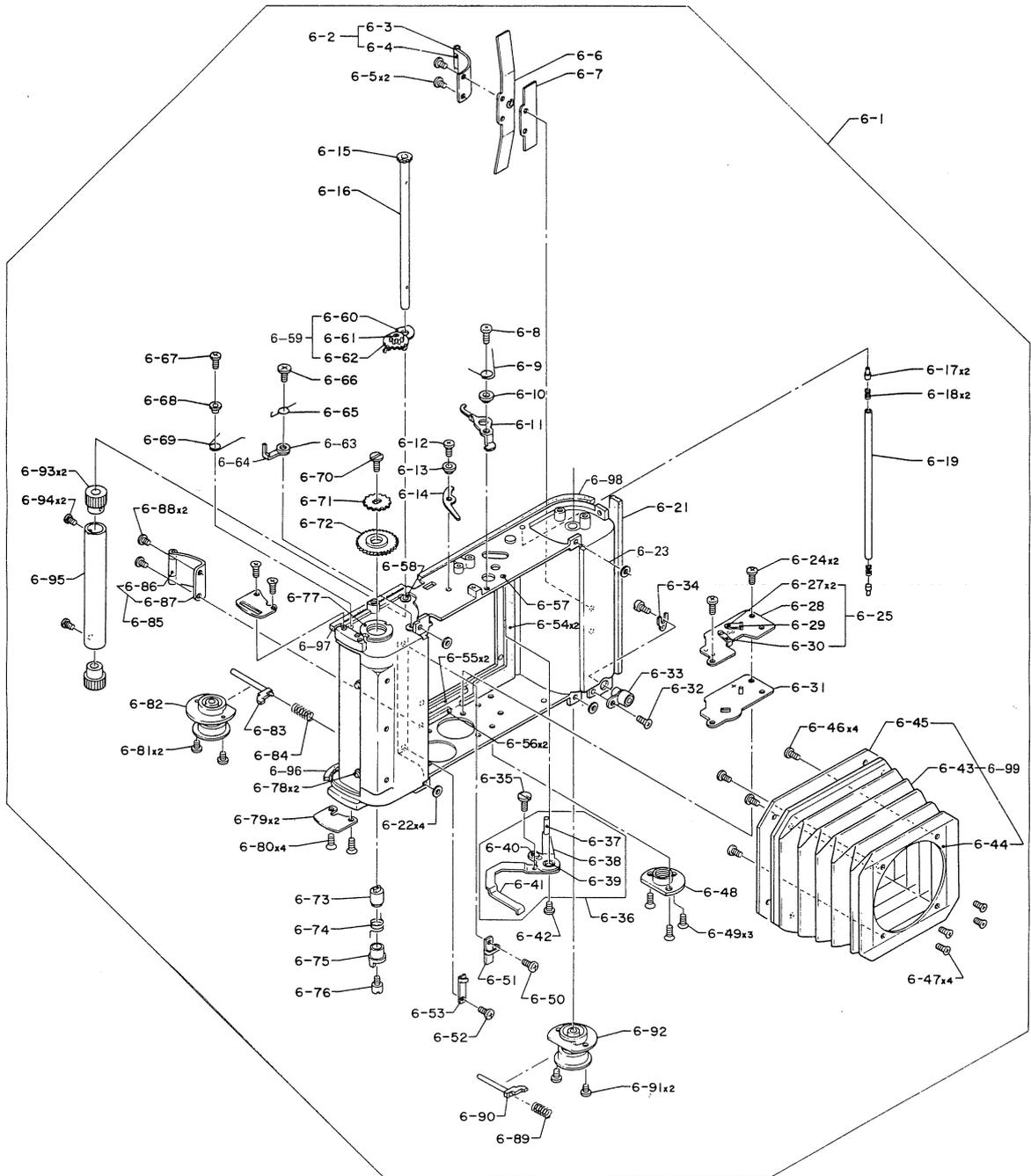
| REF NO. | PART NO. | PART NAME | Q'TY | REMARKS |
|---------|-------------|-----------------------|------|---------|
| 5 - 45 | 85B3280510 | Holder | 2 | |
| 5 - 46 | 46A3282014 | Front cover mechanism | 1 | |
| 5 - 47 | 85B3280490 | Holder | 1 | |
| 5 - 48 | 113M170251S | Set screw | 1 | |
| 5 - 49 | 110M170223S | Set screw | 1 | |
| 5 - 50 | 47A3282120 | Push lever | 1 | |
| 5 - 54 | 113M170401S | Set screw | 1 | |
| 5 - 55 | 16B3285972 | Knob | 1 | |
| 5 - 69 | 50B3285480 | Leaf spring | 2 | |
| 5 - 70 | 110M140201S | Set screw | 2 | |
| 5 - 83 | 110M230403S | Set screw | 4 | |

Fig. 6



| REF NO. | PART NO. | PART NAME | Q'TY | REMARKS |
|---------|-------------|---------------------------|-------|---------|
| 6 - 1 | 301A3281000 | Camera body assembly | 1 | |
| 6 - 2 | 50A3281090 | Leaf spring assembly | 1 | |
| 6 - 5 | 110M140251N | Set screw | 2 | |
| 6 - 6 | 50B486960 | Leaf spring | 1 | |
| 6 - 7 | 55B3281930 | Adjust plate | 1 | |
| 6 - 8 | 53B3281770 | Screw | 1 | |
| 6 - 9 | 50B3281722 | Spring | 1 | |
| 6 - 10 | 42B3281701 | Collar | 1 | |
| 6 - 11 | 47B3281683 | Lever | 1 | |
| 6 - 12 | 110M170301B | Set screw | 1 | |
| 6 - 13 | 42B3281701 | Collar | 1 | |
| 6 - 14 | 47B3281692 | Lever | 1 | |
| 6 - 15 | 34B3281390 | Gear | 1 | |
| 6 - 16 | 32B3281380 | Shaft | 1 | |
| 6 - 17 | 17B30161 | Pin | 2 | |
| 6 - 18 | 50B30170 | Spring | 2 | |
| 6 - 19 | 30B3281360 | Roller | 1 | |
| 6 - 21 | 27B3281851 | Moquette | 1 | |
| 6 - 22 | 55B3285350 | Washer | 0 ~ 4 | |
| 6 - 24 | 110M170251S | Set screw | 2 | |
| 6 - 25 | 110A3289010 | Battery PCB assembly | 1 | |
| 6 - 31 | 115B3280550 | Insulation plate | 1 | |
| 6 - 32 | 111M170301N | Set screw | 1 | |
| 6 - 33 | 112A3281050 | Synchro - socket assembly | 1 | |
| 6 - 34 | 108B563570 | Lug | 1 | |
| 6 - 35 | 53B32770 | Screw | 1 | |
| 6 - 36 | 47A3281010 | Linkage assembly | 1 | |
| 6 - 42 | 53B32770 | Screw | 1 | |
| 6 - 46 | 111M140301S | Set screw | 4 | |
| 6 - 47 | 111M170221S | Set screw | 4 | |
| 6 - 48 | 53B93823 | Tripod socket | 1 | |
| 6 - 49 | 111M200503S | Set screw | 3 | |

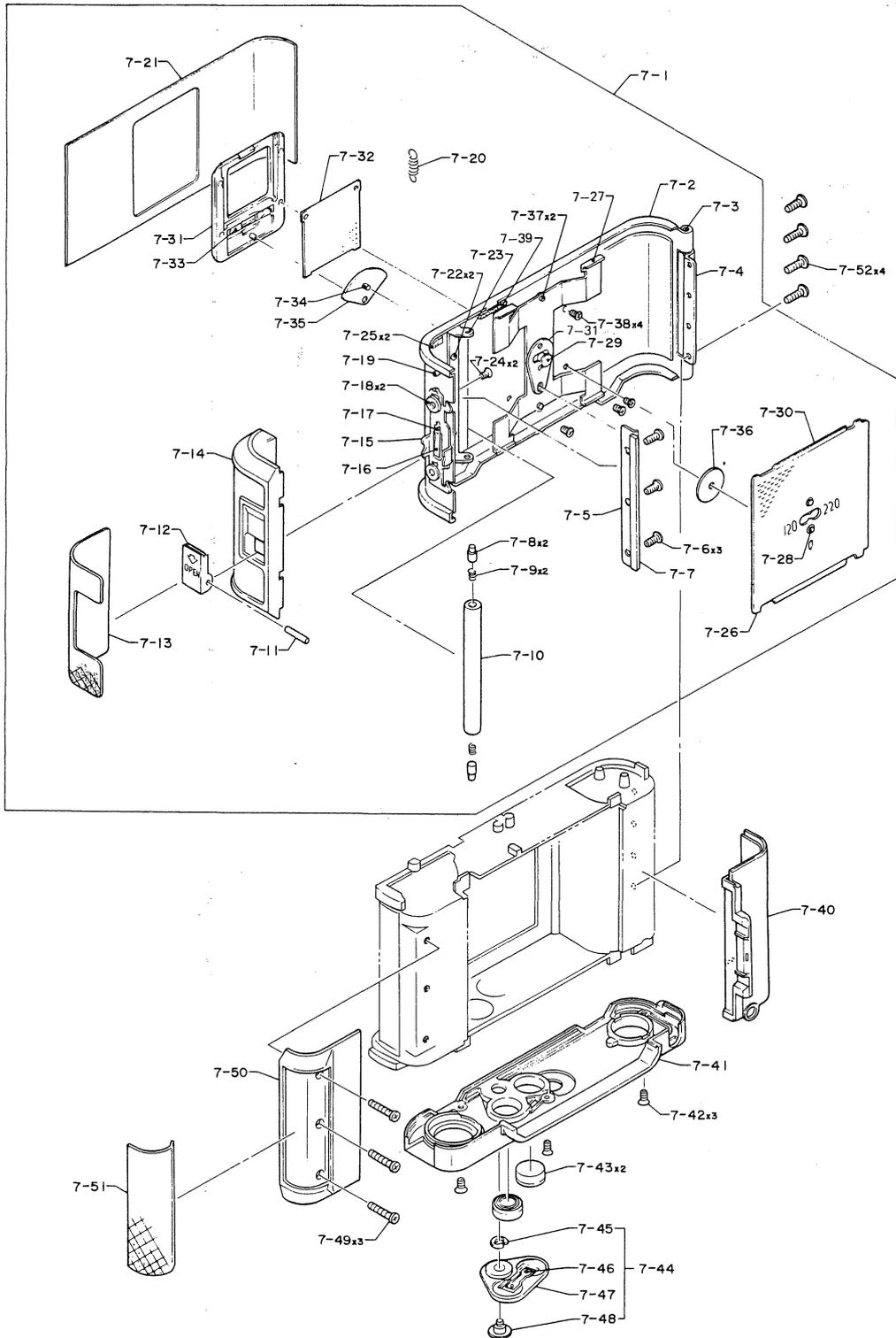
Fig. 6



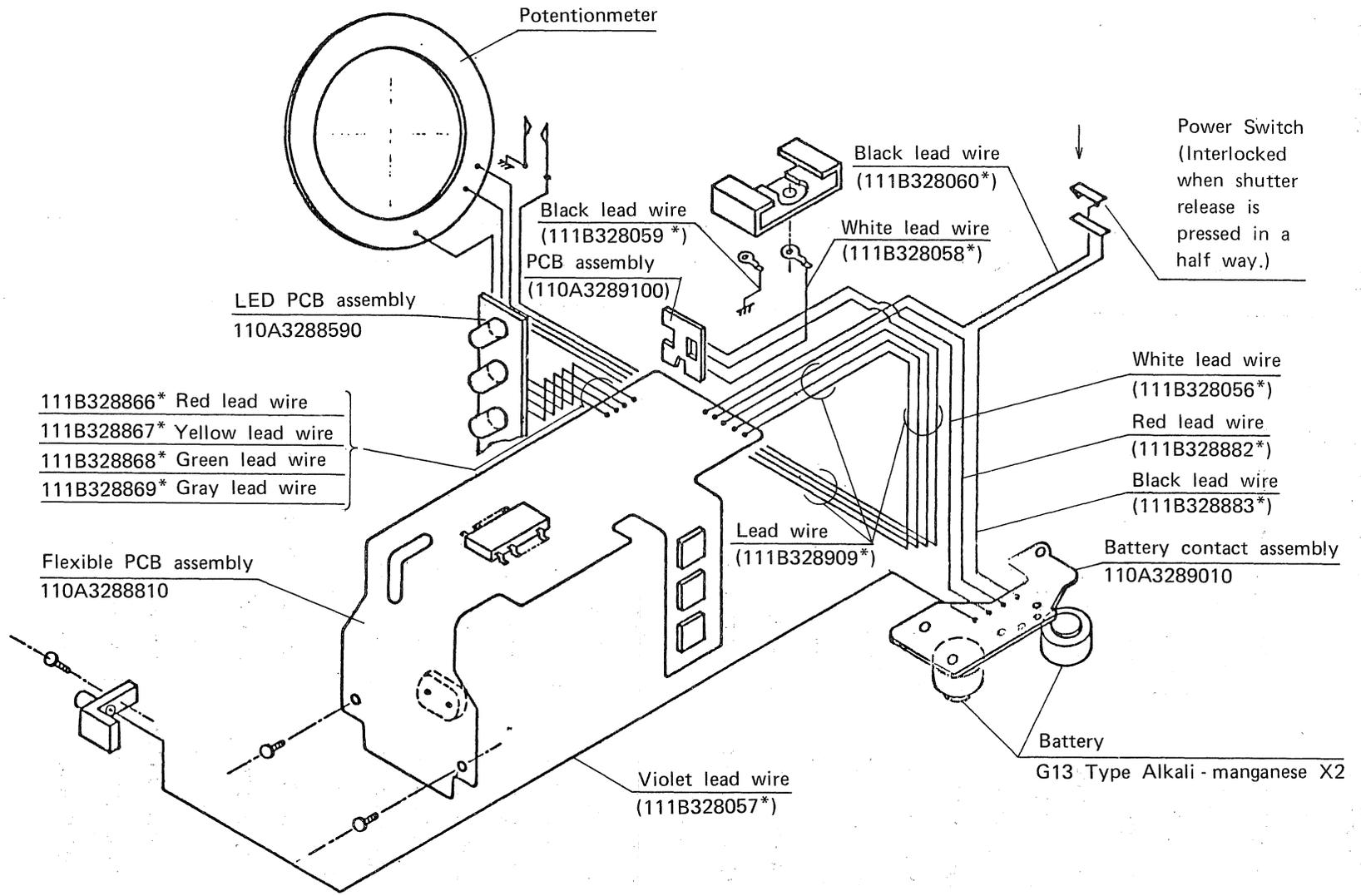
| REF NO. | PART NO. | PART NAME | Q'TY | REMARKS |
|---------|-------------|----------------------|------|---------|
| 6 - 50 | 110M170201S | Set screw | 1 | |
| 6 - 51 | 85B3281780 | Cord holder | 1 | |
| 6 - 52 | 110M170201S | Set screw | 1 | |
| 6 - 53 | 85B3281780 | Cord holder | 1 | |
| 6 - 54 | 27B3281852 | Moquette | 2 | |
| 6 - 55 | 27B3281870 | Moquette | 2 | |
| 6 - 56 | 27B3281880 | Moquette | 2 | |
| 6 - 59 | 34A3281030 | Idle gear assembly | 1 | |
| 6 - 63 | 42B3281660 | Collar | 1 | |
| 6 - 64 | 47B3281670 | Lever | 1 | |
| 6 - 65 | 50B3281450 | Spring | 1 | |
| 6 - 66 | 50B3281760 | Set screw | 1 | |
| 6 - 67 | 110M170353S | Set screw | 1 | |
| 6 - 68 | 42B3281840 | Collar | 1 | |
| 6 - 69 | 50B3281830 | Spring | 1 | |
| 6 - 70 | 53B3281350 | Screw | 1 | |
| 6 - 71 | 34B3284120 | Gear | 1 | |
| 6 - 72 | 34B3281321 | Ratchet wheel | 1 | |
| 6 - 73 | 32B3281310 | Shaft | 1 | |
| 6 - 74 | 50B3281330 | Spring | 1 | |
| 6 - 75 | 32B3281301 | Spool shaft | 1 | |
| 6 - 76 | 53B3281340 | Screw | 1 | |
| 6 - 77 | 42B3281290 | Shaft holder | 1 | |
| 6 - 79 | 41B3281231 | Strap eyelet | 2 | |
| 6 - 80 | 111M200503M | Set screw | 4 | |
| 6 - 81 | 110M200351S | Set screw | 2 | |
| 6 - 82 | 23A3281080 | Guide ring assembly | 1 | |
| 6 - 83 | 82B3281150 | Release bar | 1 | |
| 6 - 84 | 50B3281180 | Spring | 1 | |
| 6 - 85 | 50A3281100 | Leaf spring assembly | 1 | |
| 6 - 88 | 110M140251N | Set screw | 2 | |
| 6 - 89 | 50B3281180 | Spring | 1 | |

| REF NO. | PART NO. | PART NAME | Q'TY | REMARKS |
|---------|-------------|---------------------|------|---------|
| 6 - 90 | 82B3281160 | Release bar | 1 | |
| 6 - 91 | 110M200351S | Set screw | 2 | |
| 6 - 92 | 23A3281080 | Guide ring assembly | 1 | |
| 6 - 93 | 36B3281400 | Counter roller | 2 | |
| 6 - 94 | 111M140401S | Set screw | 2 | |
| 6 - 95 | 36B3281410 | Counter drum | 1 | |
| 6 - 96 | 27B3281810 | Moquette | 1 | |
| 6 - 97 | 27B3281820 | Moquette | 1 | |
| 6 - 98 | 27B3281800 | Moquette | 1 | |
| 6 - 99 | 37A3281070 | Bellows assembly | 1 | |

Fig. 7



| REF NO. | PART NO. | PART NAME | Q'TY | REMARKS |
|---------|-------------|----------------------------|------|---------|
| 7- 1 | 302A3287000 | Film chamber door assembly | 1 | |
| 7- 3 | 32B32031 | Hinge shaft | 1 | |
| 7- 4 | 19B32020 | Hinge | 1 | |
| 7- 5 | 27B3287120 | Light shielding plate | 1 | |
| 7- 6 | 113M200501S | Set screw | 3 | |
| 7- 7 | 27B32000 | Moquette | 1 | |
| 7- 8 | 17B30160 | Shaft | 2 | |
| 7- 9 | 50B30170 | Spring | 2 | |
| 7-10 | 37B492633 | Roller | 1 | |
| 7-11 | 32B3287340 | Shaft | 1 | |
| 7-12 | 16B3287320 | Open - close button | 1 | |
| 7-13 | 59B3287371 | Leather | 1 | |
| 7-14 | 11B3281242 | Cover frame | 1 | |
| 7-20 | 50B3287391 | Spring | 1 | |
| 7-21 | 59B3287270 | Leather | 1 | |
| 7-24 | 114M200501S | Set screw | 2 | |
| 7-25 | 27B3287280 | Moquette | 2 | |
| 7-39 | 27B3287290 | Moquette | 1 | |
| 7-40 | 11B3281620 | Terminal cover | 1 | |
| 7-41 | 11B3280300 | Bottom cover | 1 | |
| 7-42 | 53B2189030 | Set screw | 3 | |
| 7-43 | 104K457690 | Battery | 2 | |
| 7-44 | 16A3280070 | Battery cap assembly | 1 | |
| 7-45 | 191M020T | E - clip | 1 | |
| 7-48 | 53B3280320 | Set screw | 1 | |
| 7-49 | 110M230803S | Set screw | 3 | |
| 7-50 | 11B3285980 | Cover frame | 1 | |
| 7-51 | 59B3280620 | Leather | 1 | |



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