

**REPAIR MANUAL
&
PARTS LIST**

FOR

FUJICA GW-690
GSW-690
G-617

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GENERAL INFORMATION

Differences Between Fujica GW690 and GSW690

	GW690	GSW690
Lens	3.5/90	5.6/65
Range finder	x 0.75	x 0.45
Filter screw	67φ P = 0.75	67φ P = 0.75

- Attachments (lens cap, neck strap, leather case and eyepiece) are used commonly.
- The eyepiece can also be used commonly for Fujica GL690 and GM670.
- The parts not used commonly
 - (1) Top cover assembly (3-1)
 - Except for the printings on the top cover (3-1), all other components of the top cover assembly are same.
 - (2) Range/Viewfinder assembly (5-1)
 - The optical system of GW690 differs from that of GSW690.
 - (3) Lens assembly
 - The lens assembly of GW690 differs from that of GSW690.
 - (4) Lens barrel assembly (7-23)
 - Since the lens moving stroke of GW690 differs from that of GSW690, the aperture selector ring and other parts related to the helicoid are not used commonly.
 - (5) Shutter
 - Since the lens diameter is not same, the shutter is not used commonly. (Full aperture of the shutter differs.)

GW690: 18φ

GSW690: 14φ

I . DISASSEMBLY

1. Top cover assembly (1-29)

- Turn and remove the top shutter release assembly (1-13). Now, remove the film advance lever (1-18) and pull out the shutter release shaft (1-20).
- Remove three screws (1-1) and screw (1-2).
- Remove the top cover assembly (1-29) upward.

2. Range/Viewfinder assembly (1-28)

- Remove three screws (1-3), and remove the range/viewfinder assembly (1-28).
Wind up the film advance lever, and lever the rack assembly (4-47) under the set condition.

3. Film take-up mechanism assembly (1-31)

- Remove the spring (1-22).
- Remove four screws (1-4) and set screw (1-21). Now, the film take-up mechanism assembly can be removed.

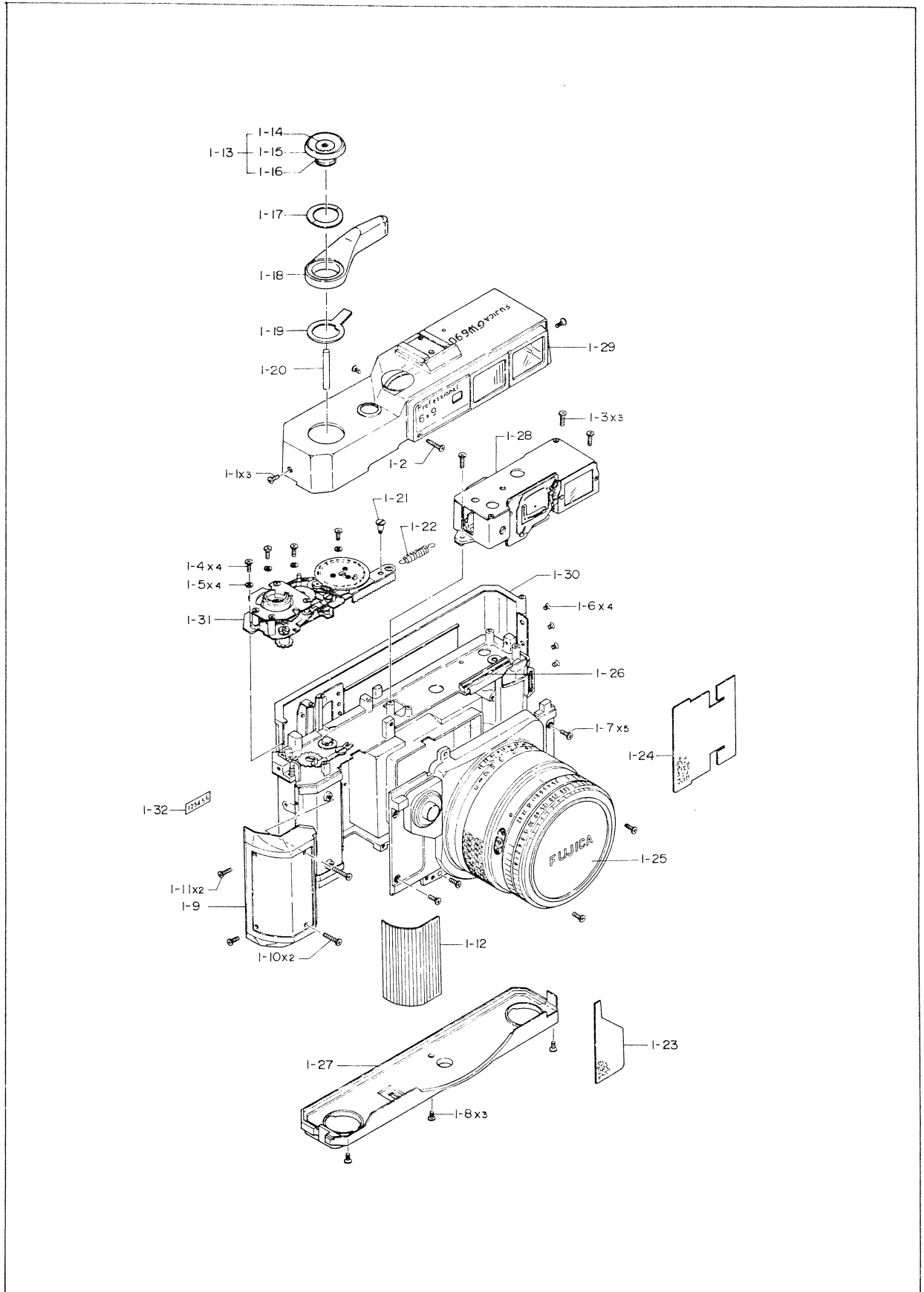
4. Bottom cover (1-27)

- Remove three screws (1-8). The bottom cover can then be removed.

5. Lens barrel assembly (7-23)

- Peel off three pieces of leather (1-12, 1-23 and 1-24).
- Remove screws (1-10 and 1-11), and remove the grip (1-9).
- Remove five screws (1-7). The lens barrel assembly can then be removed.

Fig. 1



6. Shutter assembly I (7-17)

- Turn the front lens assembly (7-4) counterclockwise to remove it.

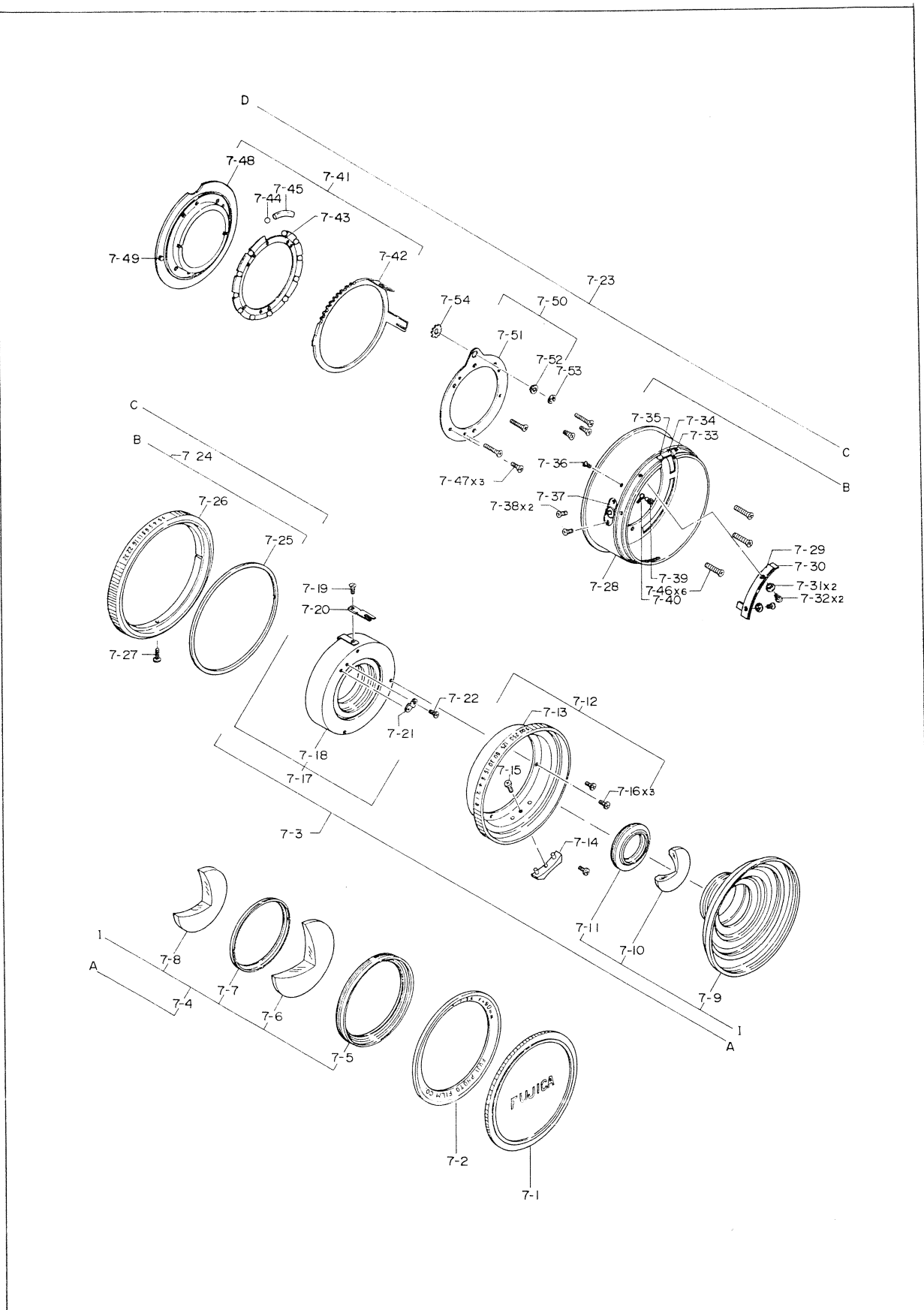
NOTE: The threads of the front lens assembly are locked with screw locking agent.

Recommend the lens barrel be wrapped with rubber band to ease the removal.

- Remove three screws (7-16), and remove the shutter speed selector ring assembly (7-12).
- Remove two screws (7-74), and remove two light shielding plate assemblies (7-68).
- Unsolder and disconnect the sync cord from the front face of the shutter.
- Turn the rear lens assembly (7-55) counterclockwise to remove it.
- Turn the hold ring (7-125) counterclockwise to remove it.
- Remove the shutter assembly I (7-17) toward the front.

When separating the shutter assembly from the aperture selector ring, be careful not to bend the relative parts.

Fig. 2



II. REASSEMBLY AND ADJUSTMENT

1. Chassis assembly (2-1)

- a. Check the camera back hook (2-10) to insure that it is moved smoothly by the spring (2-8).
- b. Check the exposure counter drum assembly (2-11) to insure that it turns smoothly.

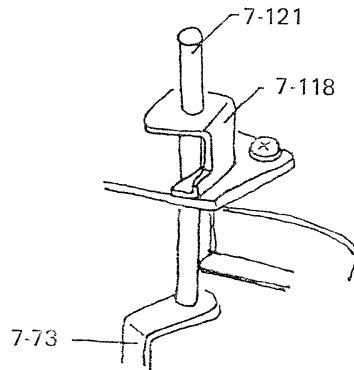
The exposure counter drive wheel (2-33) is secured on the exposure counter drum shaft (2-34) by the threads.

- c. Check the film guide roller (2-46) to insure that it turns smoothly.
- d. Check the roller assembly (2-41) and pressure spring (2-49) for deformation. These parts are used to take up the film on the spool tightly. If these parts are deformed, replace.
- e. Check the take-up spool knob assembly (2-19) to insure that it is moved smoothly by the spring (2-17). Further, insure that it is locked with the diecast wall when it is raised.
- f. Check the lock lever assembly (2-37) to insure that it moves smoothly and it is not bent.
- g. Check the take-up shaft assembly (2-2) to insure that a proper friction is provided by the leaf spring (2-21).

Apply Helicolube/Molycote mixed grease to the sliding surface slightly.

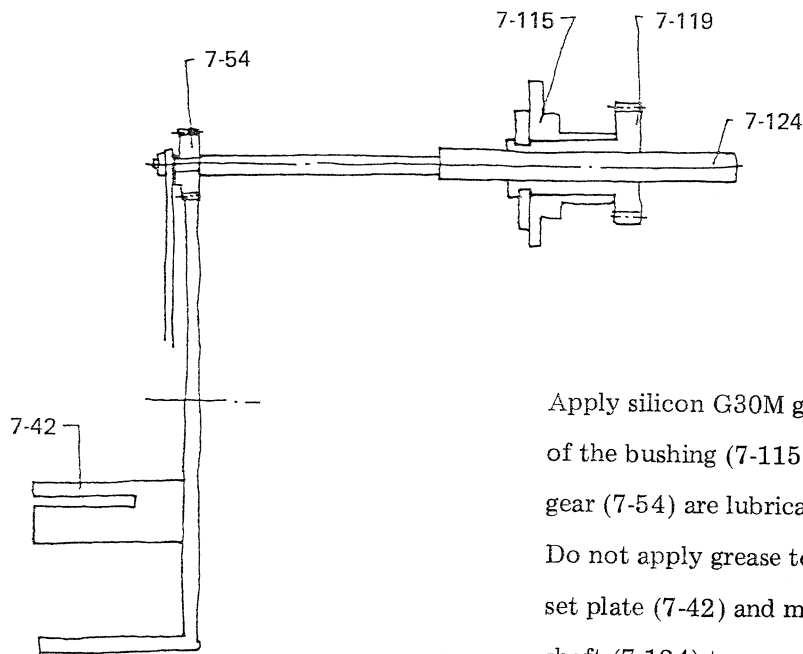
2. Lens barrel assembly (7-23)

a. Interlock rod assembly (7-121)



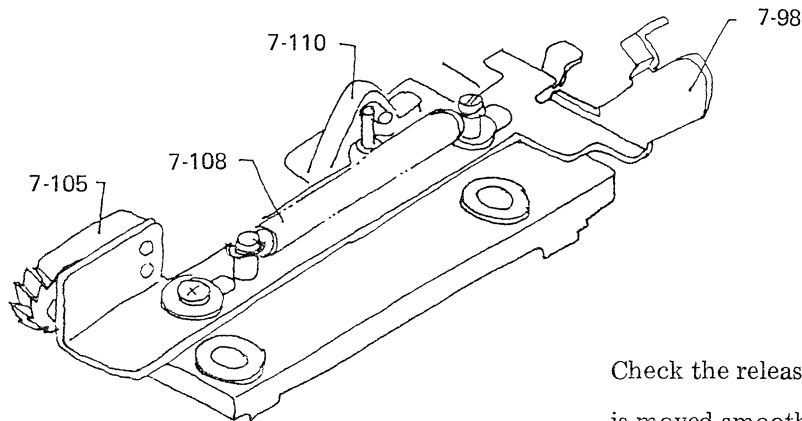
Check the interlock rod assembly to insure that it is interlocked with the helicoid assembly and moves smoothly. When the interlock rod does not move smoothly, adjust the shaft holding plate (7-118). Apply Helicolube/Molycote mixed grease slightly to the rod.

b. Shutter setting/releasing linkage



Apply silicon G30M grease to the sliding surface of the bushing (7-115). The set plate (7-42) and gear (7-54) are lubricated with dry lubricant. Do not apply grease to these parts. Turn the set plate (7-42) and make sure that the gear shaft (7-124) turns smoothly.

c. Release lever assembly (7-98)

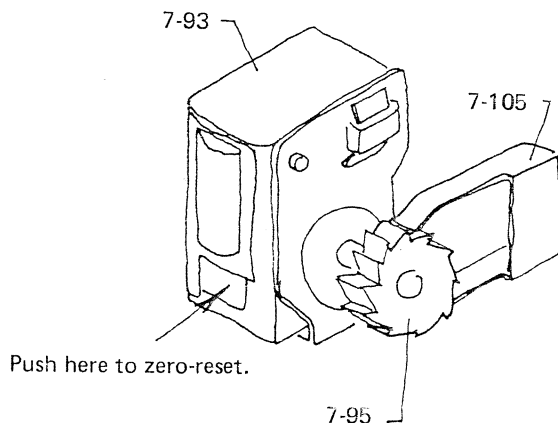


Check the release lever assembly to insure that it is moved smoothly by the spring (7-108).

Depress the front shutter release (7-88), and make sure that the release lever assembly (7-98) is moved smoothly by the lever (7-110).

Apply Helicolube/Molycote mixed grease to the shaft holder and sliding surface to smooth movements of the parts.

d. Shutter actuation counter assembly (7-93)



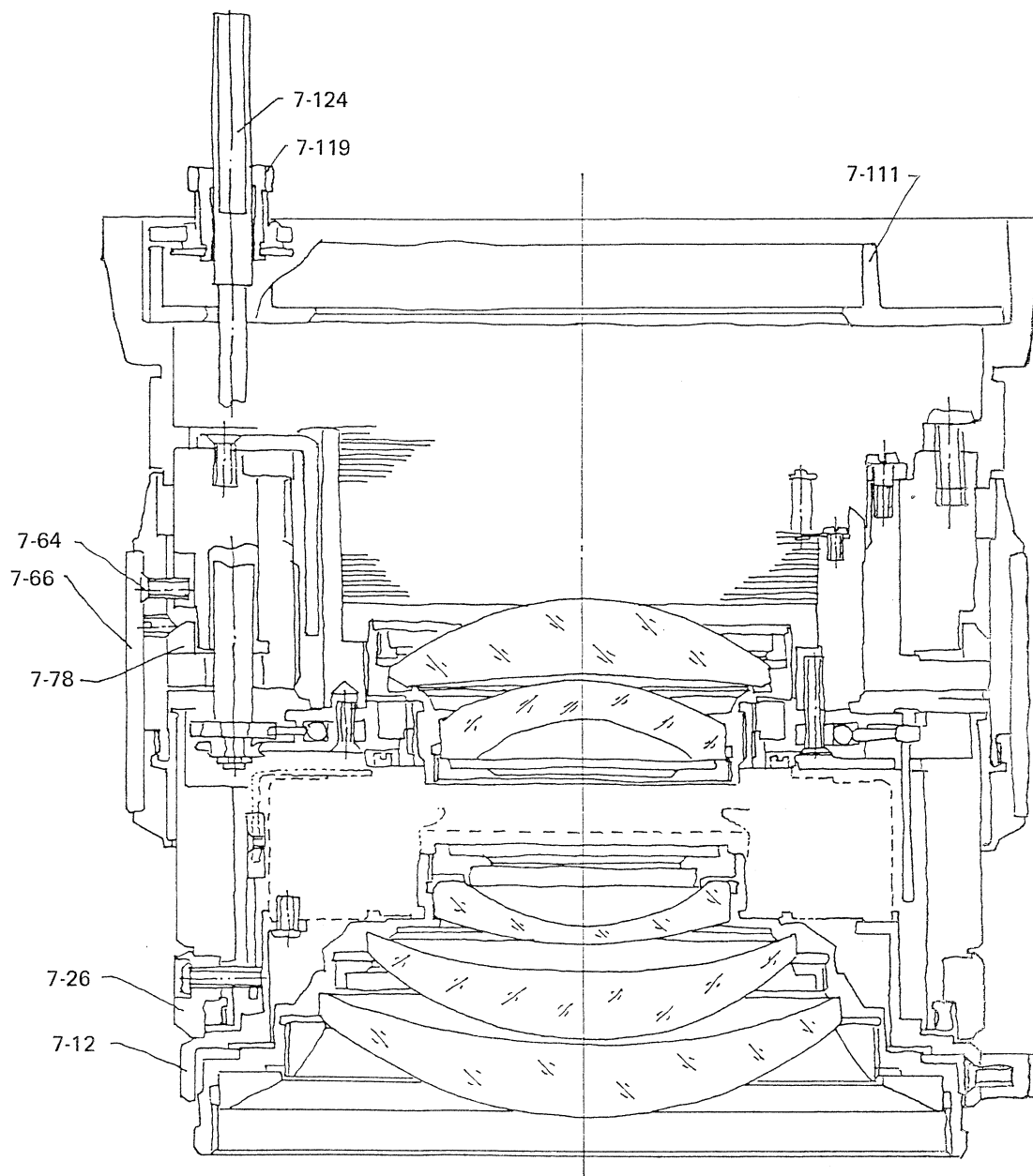
Apply Helicolube/Molycote mixed grease to the sliding surfaces of the ratchet wheel (7-95) and claw (7-105).

Move the release lever assembly (7-98) to its full stroke ten times, and make sure that the counter advances one scale.

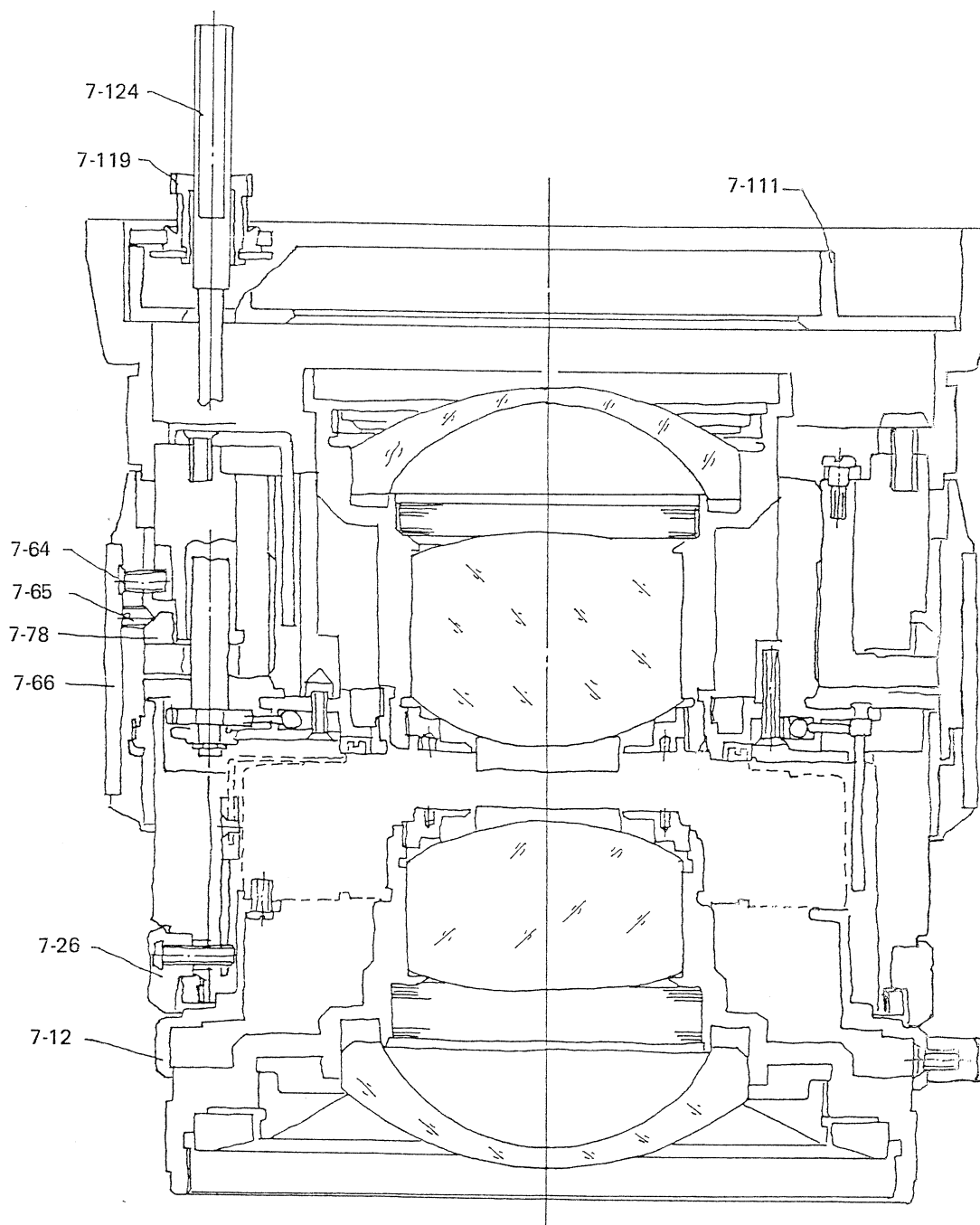
When the advancement is insufficient or excessive, properly bend the head of the claw (7-105).

e. Lens assembly

For GW690 (3.5/90mm)



For GSW690 (5.6/65mm)



f. Installing the shutter assembly I (7-17)

Fitting the positioning pin of the shutter to the groove on the male helicoid (7-67), tighten the shutter assembly I (7-17) with the hold ring.

Connect the sync cord to the lug (7-40) by means of solder.

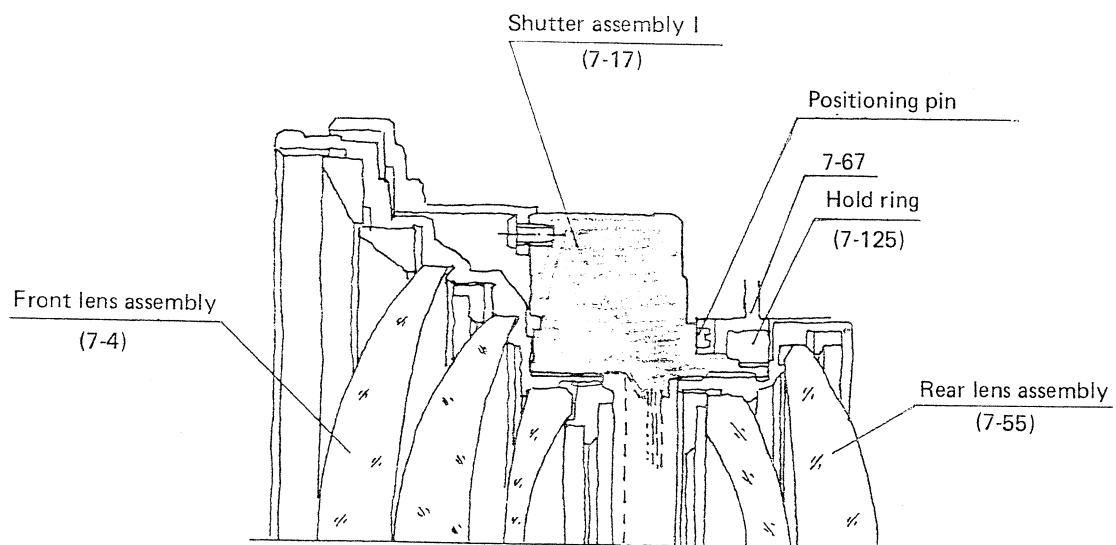
g. Installing lenses

Assembly the front lens assembly (7-4) and rear lens assembly (7-55) with the shutter assembly I (7-17).

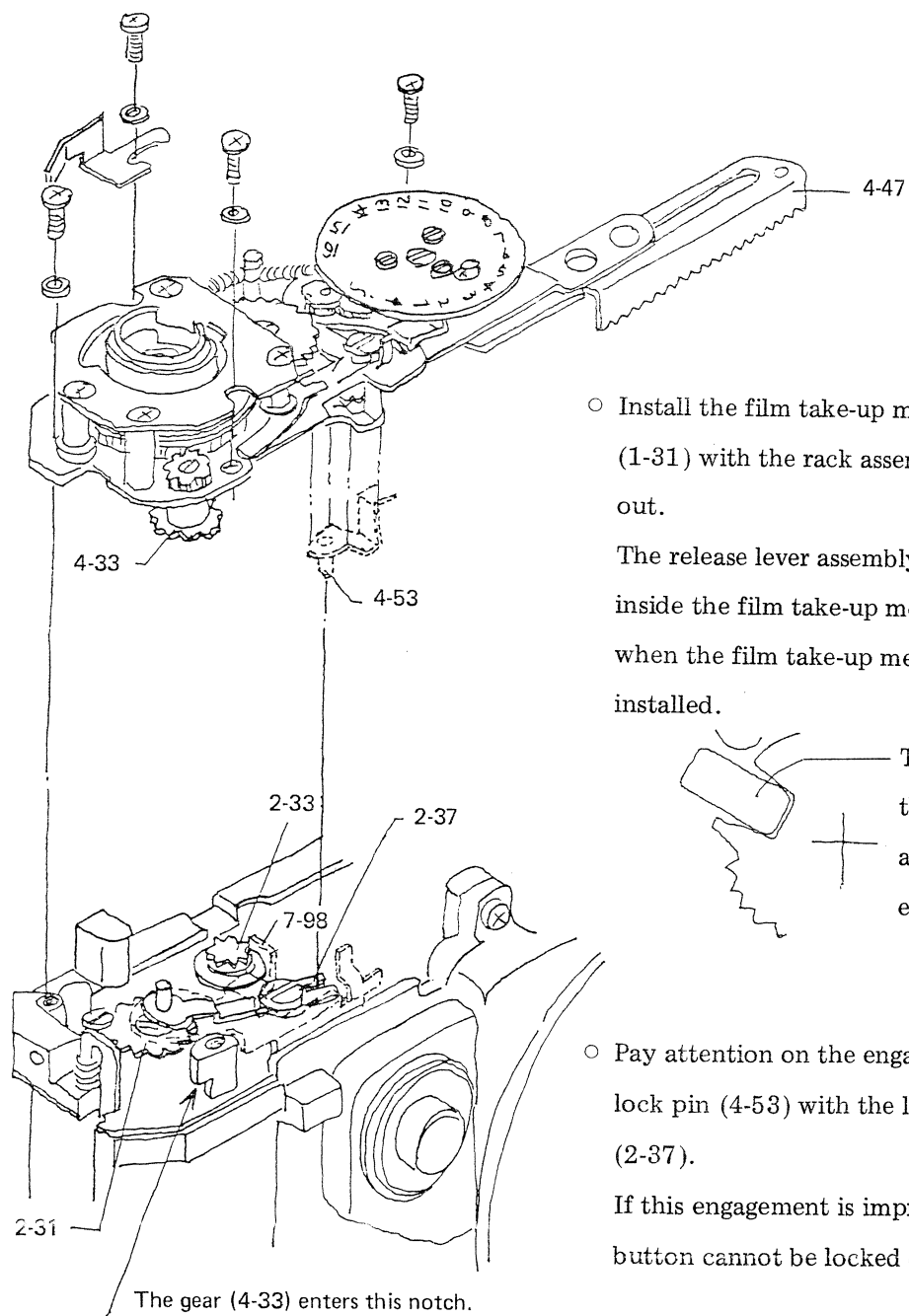
3. Installing lens barrel assembly (7-23)

Install the lens barrel assembly (7-23) on the chassis with five screws (1-7).

Be careful not fail to install the interlock rod assembly (7-121).



4. Installing the film take-up mechanism assembly (1-31)



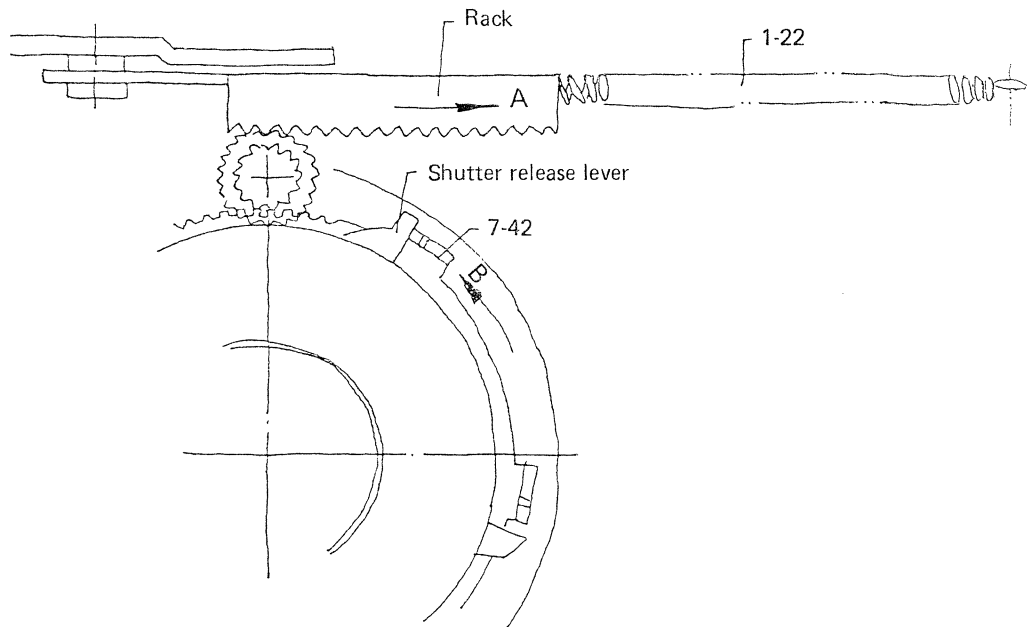
- Install the film take-up mechanism assembly (1-31) with the rack assembly (4-47) drawn out.

The release lever assembly (7-98) is located inside the film take-up mechanism assembly when the film take-up mechanism assembly is installed.

- Pay attention on the engagement of the interlock pin (4-53) with the lock lever assembly (2-37).

If this engagement is improper, the shutter button cannot be locked correctly.

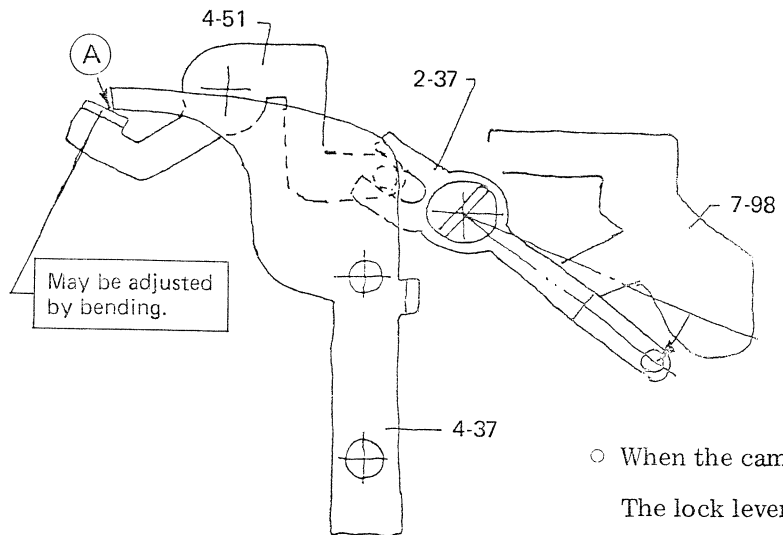
5. Adjusting engagement of the rack assembly (4-47)



- Apply a proper matter in between the shutter release lever and base plate of the film take-up mechanism assembly so that the shutter release lever is kept under pushed down status.
- Disengage the rack with the pinion, and pull the rack toward arrow A direction. Set the shutter release set plate (7-42) fully toward arrow B direction.
- With the above two conditions satisfied, set up the engagement of the rack and pinion.
- Tighten four screws (1-4) and screw (1-21).
- When shutter speed is too high at [T] mode, shift the engagement of the rack and pinion to such a direction as that the set plate (7-42) can push the shutter side release lever further.

6. Operations of the film take-up mechanism assembly

a. Releasing and locking the shutter



○ When the camera back opens:

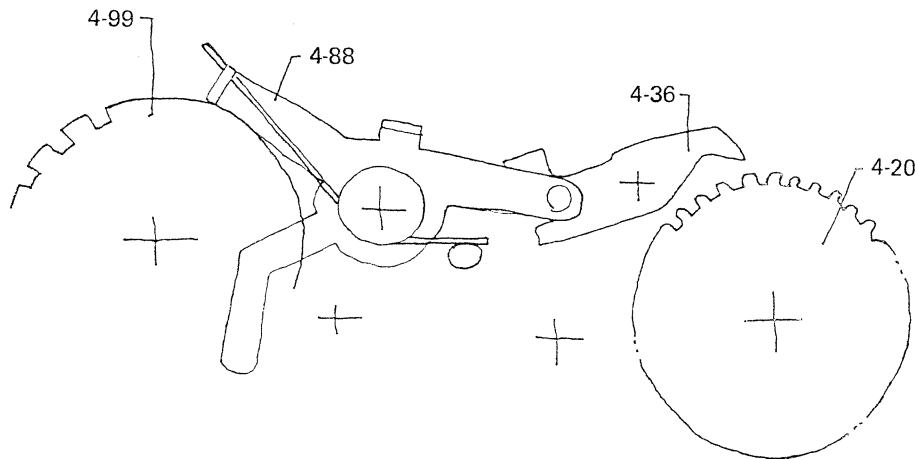
The lock lever assembly (4-51) is pushed by the return lever assembly (4-37), causing the lock lever assembly (2-37), to run away from the shutter release lever. Thus, the shutter is released.

When the camera back is closed:

Since the portion (A) above is freed, the lock lever assembly (4-51) swings, the lock lever assembly (2-37) enters beneath the shutter release lever, causing the shutter release to be locked.

With the camera back closed, the shutter cannot be released unless the camera is loaded with a film and the exposure counter is advanced to the 1st frame.

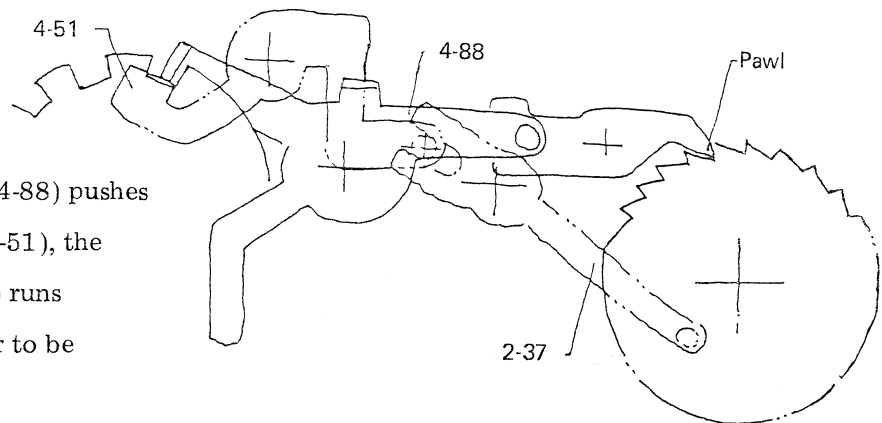
b. Advancing the film from S to 1st frame.



The pawl (4-36) runs away from the pawl wheel (4-20) (because the lever assembly (4-88) is in contact with the disc (4-99)), and therefore, the film can be taken up freely.

Then, as the film is taken up, the film roller turns and the exposure counter advances.

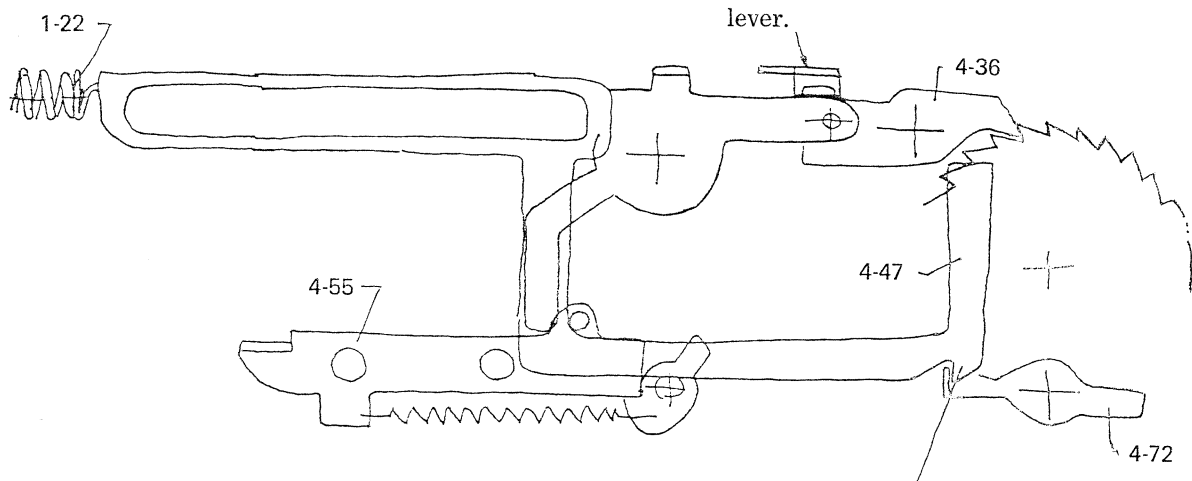
When the exposure counter advances to the 1st frame, the lever assembly (4-88) drops into the groove on the disc (4-99), the pawl (4-36) engages with the pawl wheel (4-20), and thus, the film is no longer taken up.



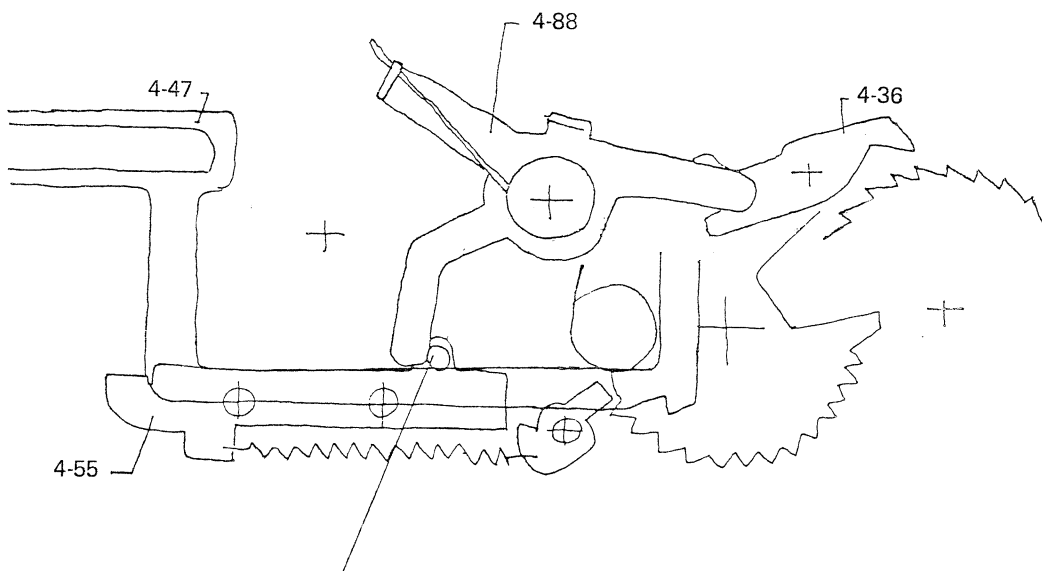
Since the lever assembly (4-88) pushes the lock lever assembly (4-51), the lock lever assembly (2-37) runs away, allowing the shutter to be released.

c. Releasing the shutter

This is forcedly disengaged so that the claw disengages also when the shutter is released with your finger applied to the film advance

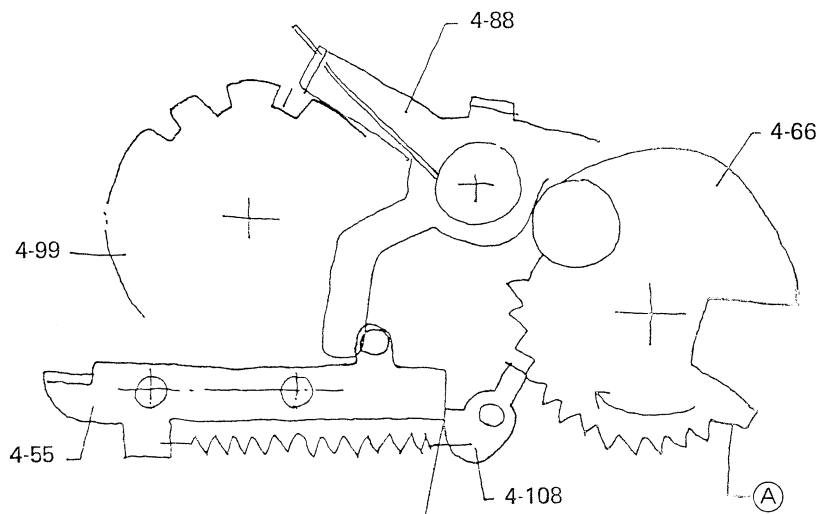


When the hook (4-72) disengages with the rack assembly (4-47), the rack assembly (4-47) is caused by the spring (1-22) to run to the left, causing the shutter to be released.



With this pin, the lever assembly (4-88) is held. (Allowing the lever assembly to run away from the disc. The pawl (4-36) does not engage.)

d. During winding up the film advance lever



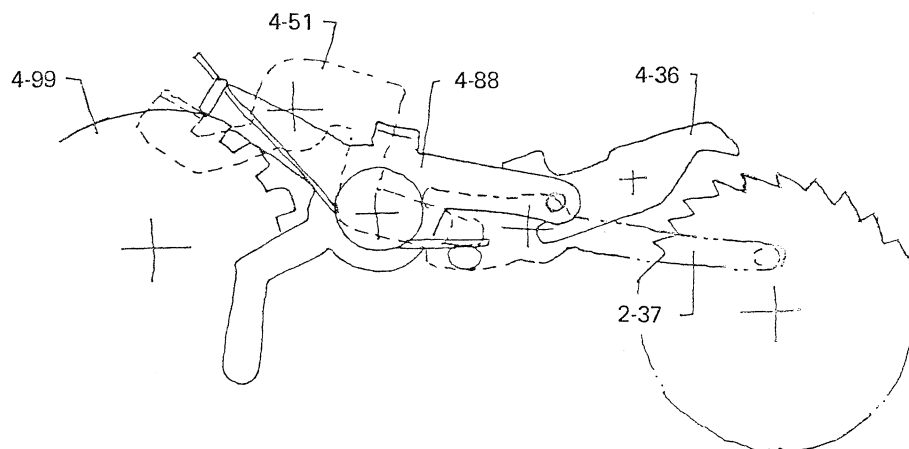
Since this face is hooked, the lever assembly (4-88) is released through the lever assembly (4-55).

The claw (A) of the ratchet wheel assembly (4-66) pushes the lever (4-108). Then, the hook disengages, allowing the lever assembly (4-88) to drop into the disc.

When the film is advanced one frame (when the film advance lever is wound up twice), the exposure counter advances and the lever assembly (4-88) drops into the groove, causing the film take-up to stop.

e. Reaching the film end

When the film is taken up to the last frame and it is exposed, the film can be taken up freely because the lever assembly (4-88) is released at the outer circumference of the disc (4-99). In addition, the lock lever assembly (2-37) moves, causing the shutter release not to be depressed.

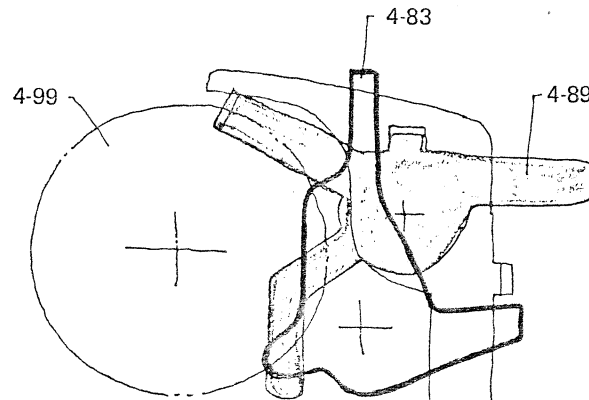


The exposure counter dial is caused to stop at 8th and 16th frame by the limit lever (3-20) of the top cover assembly (3-1). Then, the exposure counter dial slips.

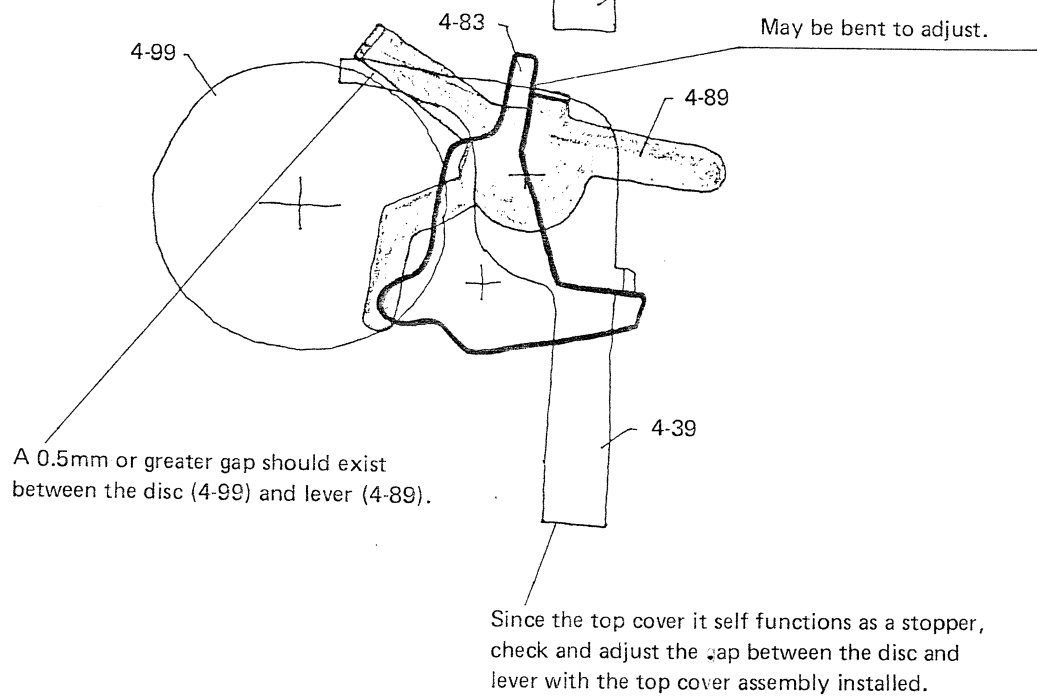
When the exposure counter dial is slipping, the lever assembly (4-88) must be positioned in between grooves of the disc (4-99).

f. Exposure counter zero-resetting

During film advancing



When the camera back opens

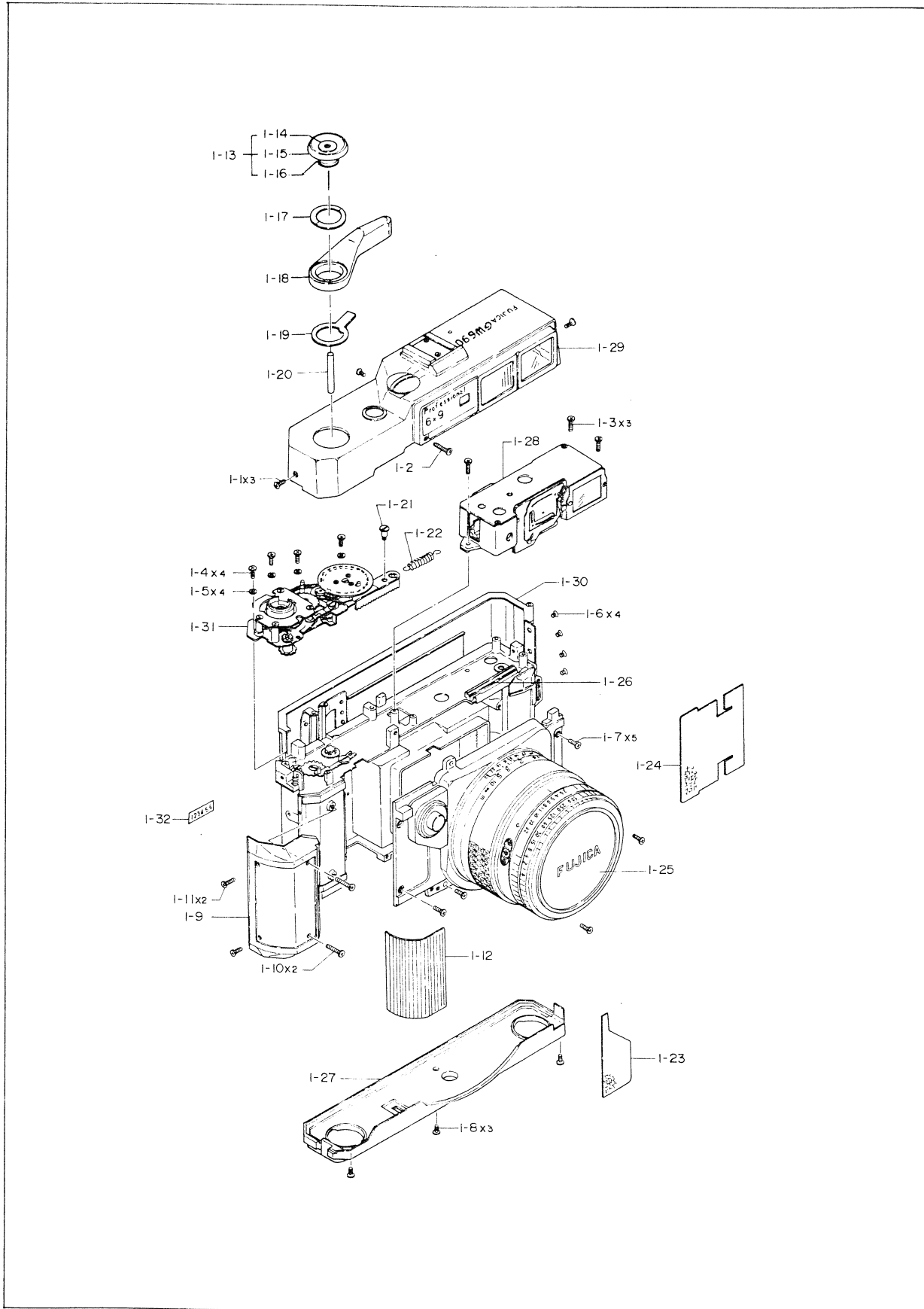


7. Installing the range/viewfinder assembly (1-28)

Install the range/viewfinder assembly (1-28) with the film take-up mechanism assembly set, or otherwise the rack will hinder the installation.

Pay attention on the range finder interlock pin position.

Fig. 3



8. Adjusting lens focus

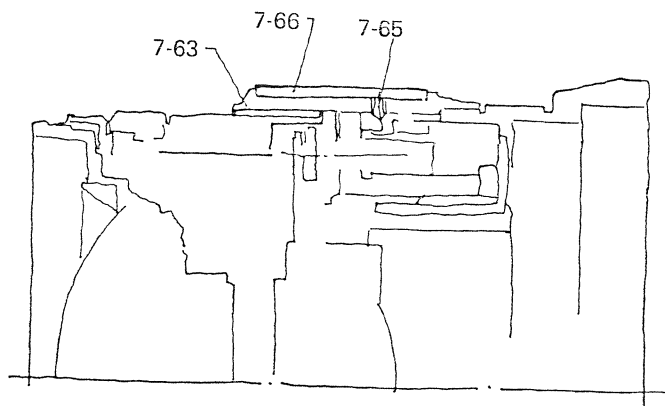
Adjustment of infinity

Adjust it by watching image on the film plane or by using a collimator.

For the actual adjustment, loosen three screws (7-65) and adjust position of the male helicoid (7-67).

Focus position at infinity:

0.05 ± 0.02 mm behind the film rail plane (film plane side)



9. Adjusting range finder

a. Adjustment of infinity

- Turn the lens to set it to "inf".
- Looking into the collimator, properly adjust the direction and height with the eccentric pin (5-18) and adjust screw (5-27).
- Make adjustment after loosening the lock screw, and recheck the adjustment after re-tightening the screw.

b. Adjustment of 2m

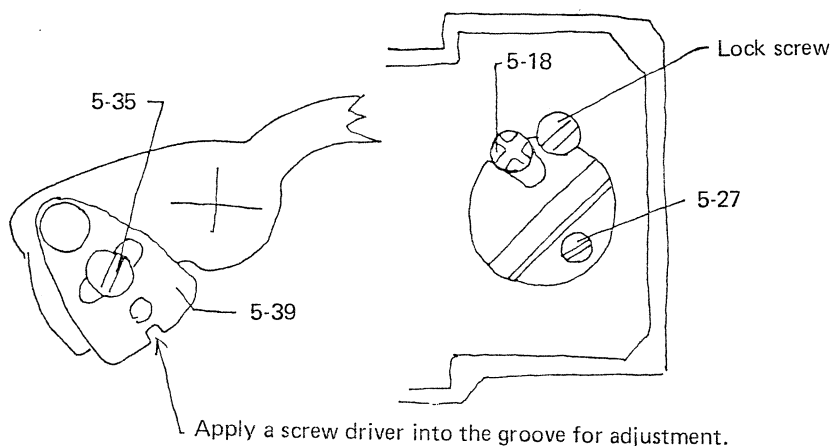
- Focus an objective in the distance of 2 meters on the film rail plane.
- Without moving the lens, loosen the set screw (5-35), swing the adjust lever assembly (5-39) properly to adjust the range finder at 2m.

When rail plane microscope is not available, place a frosted glass on the rail plane and use a magnifier.

c. Repeat adjustment of infinity and 2m until both of them are satisfactory.

When split images agree in the viewfinder, the rated focus position at 2m is $+0.05^{+0.1}_{-0}$ mm

behind the rail surface (film plane side).

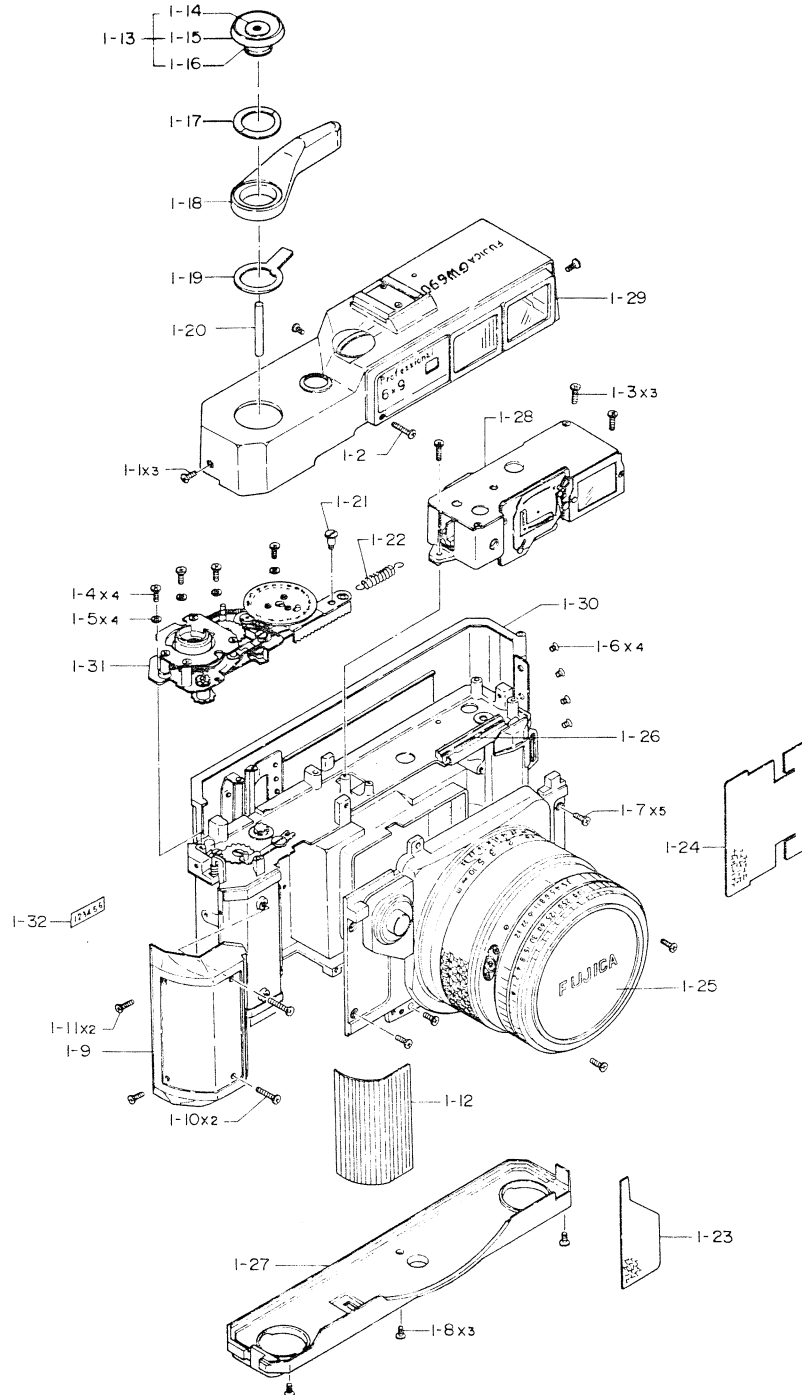


10. Top cover assembly (1-29)

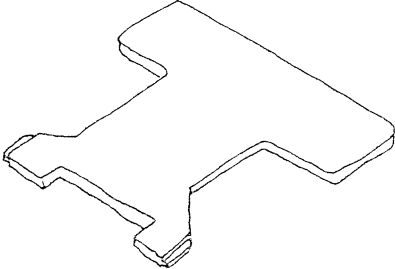
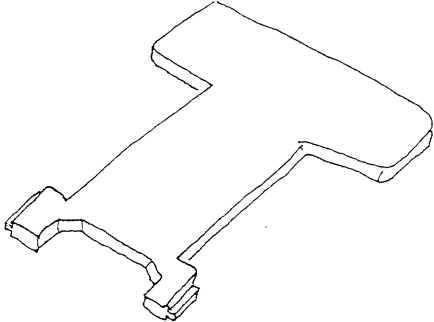
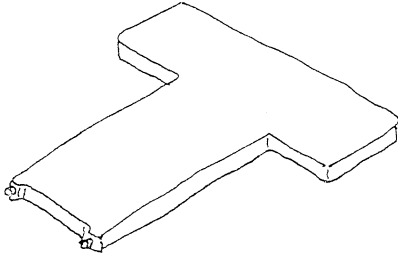
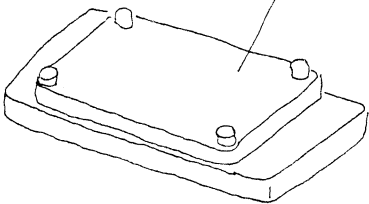
Install the top cover assembly (1-29) with three screws (1-1) and screw (1-2).

Set the film selector (3-3) to 16, 8 and 4 EXP, and make sure that the film advancing is freed correctly at the end of each film and the shutter is locked.

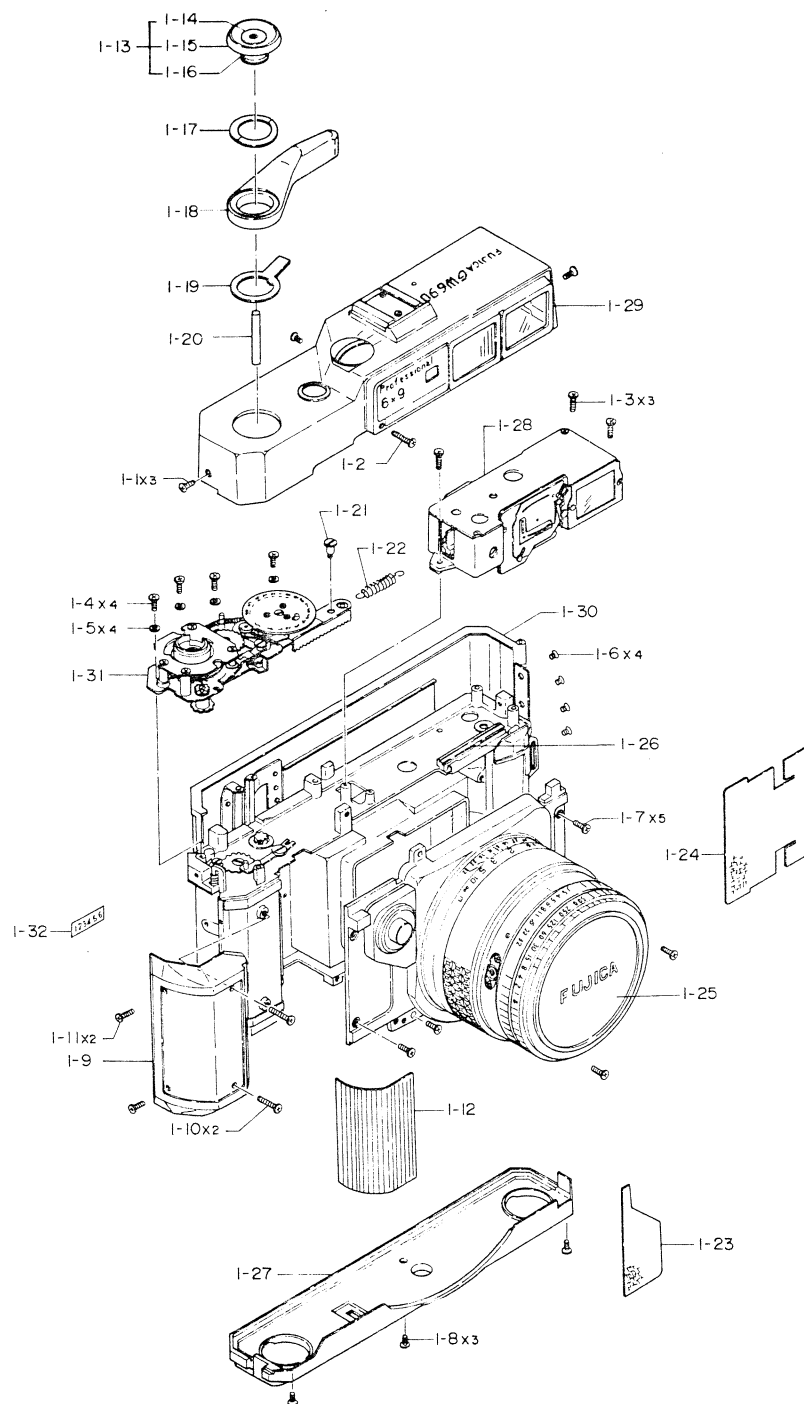
Fig. 4



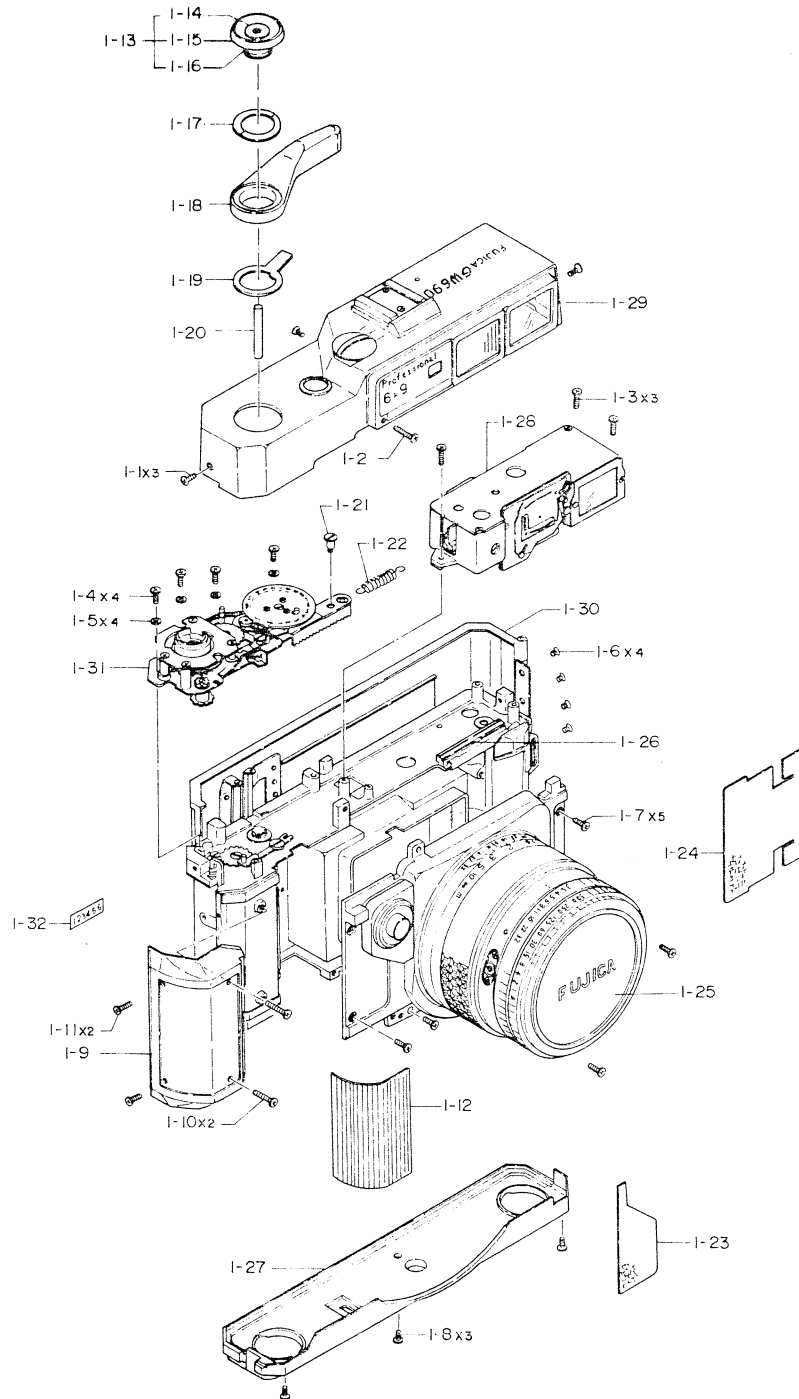
III. SPECIAL TOOL LIST

NO.	SKETCH	APPLICATION
J1153		Used to install and remove the rear lens assembly of GSW690.
J1154		Used to install and remove the rear lens assembly of GW690.
J1155		Used for shutter installing holder. Used commonly for G690 (3.5/100).
J1156		Used for adjustment of focus at infinity. Functions as a reflector at the rail surface.

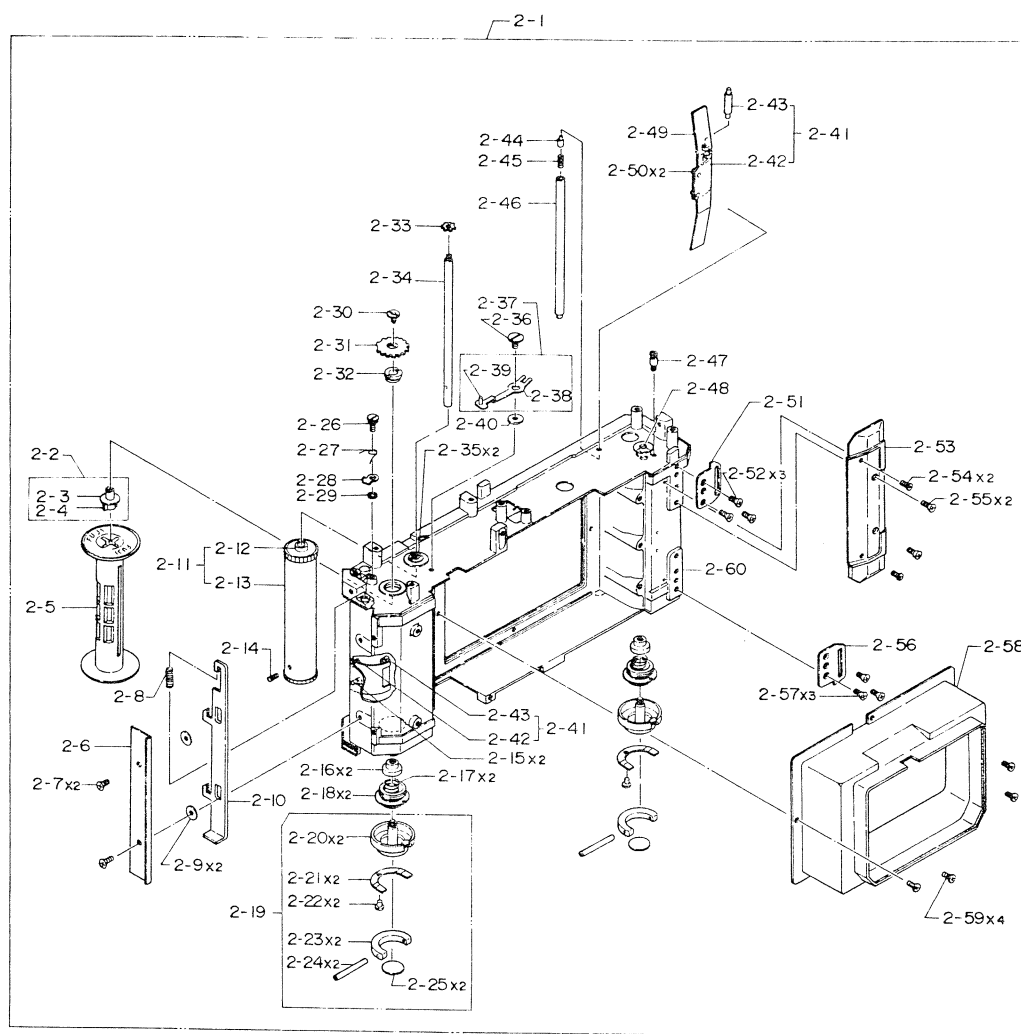
IV. PARTS LIST (FUJICA GW690)



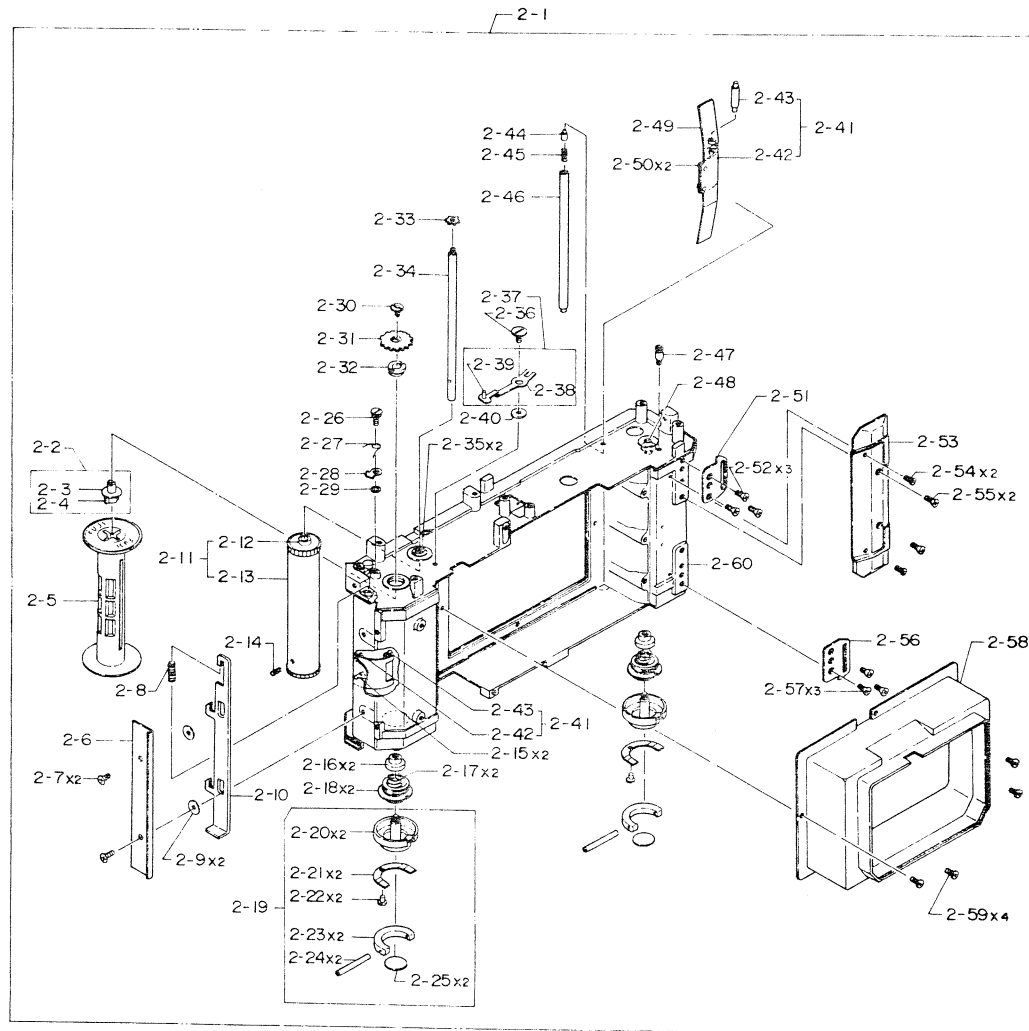
Ref No.	Part No.	Part Name	Q'ty	Remarks
1- 1	53B491260	Screw	3	
1- 2	53B2189020	Screw	1	
1- 3	110M2006035	Screw	3	
1- 4	110M2005035	Screw	4	
1- 5	165M202H	Spring washer	4	
1- 6	11M170251S	Screw	4	
1- 7	110M260603S	Screw	5	
1- 8	53B2189030	Screw	3	
1- 9	41B2190160	Grip	1	
1-10	110M2009035	Screw	2	
1-11	110M2007035	Screw	2	
1-12	59B2190190	Leather	1	
1-13	84A2189500	Top shutter release assembly	14, 15, 16 1	
1-14	16B2189090	Top shutter release	1	
1-15	84B2189080	Holder	1	
1-16	55B29680	Washer	1	
1-17	50B29400	Spring washer	1	
1-18	47B489640	Film advance lever	1	
1-19	85B29390	Stopper	1	
1-20	32B2189010	Shutter release shaft	1	
1-21	53B2189060	Set screw	1	
1-22	50B2191320	Spring	1	
1-23	59B2189040	Leather	1	
1-24	59B2189050	Leather	1	



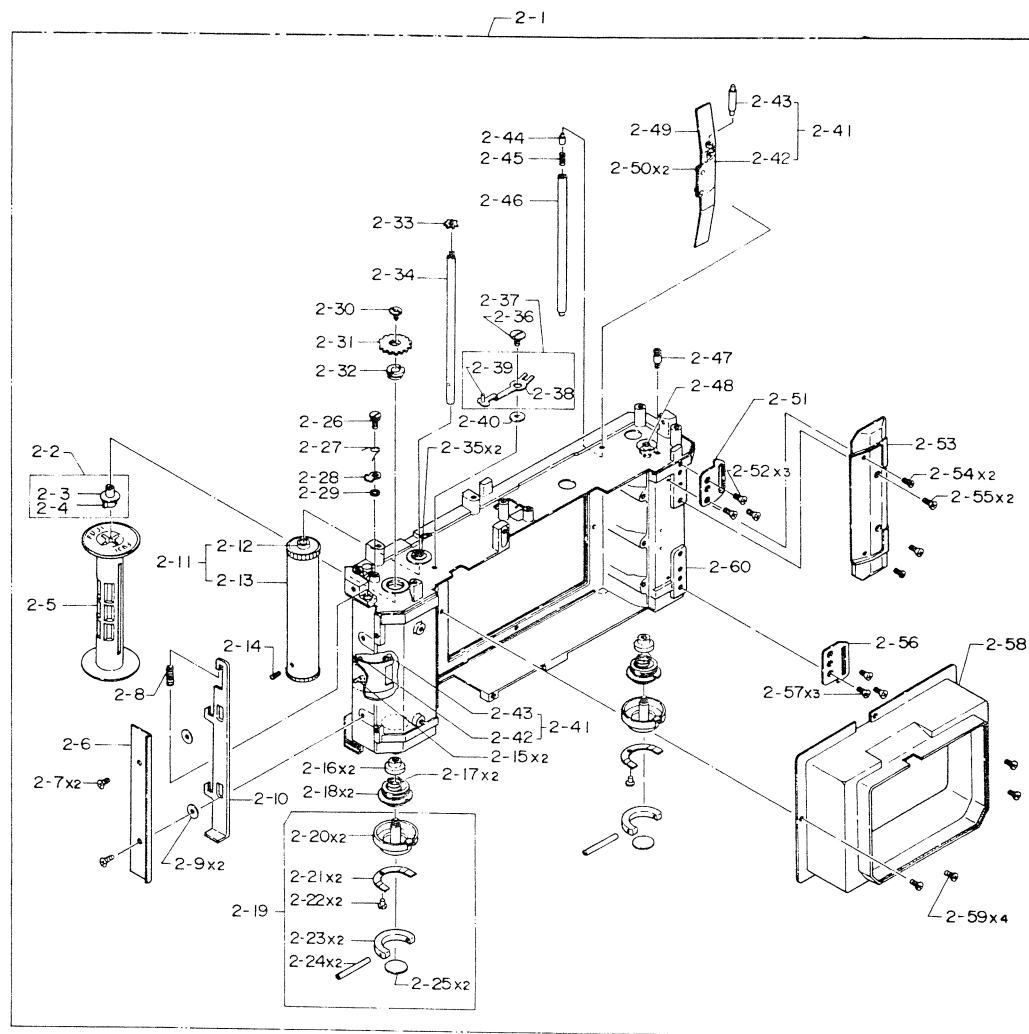
Ref No.	Part No.	Part Name	Q'ty	Remarks
1-25	57B2189070	Lens cap	1	
1-26	81B2192520	Rib	1	
1-27	11B2192660	Bottom cover	1	
1-28	99A932A00	Range/Viewfinder assembly	1	
1-29	302A2193000	Top cover assembly	1	
1-30	302A2192900	Camera back assembly	1	
1-31	310A2192000	Film take-up mechanism assembly	1	
1-32	58B29520	Number plate	1	



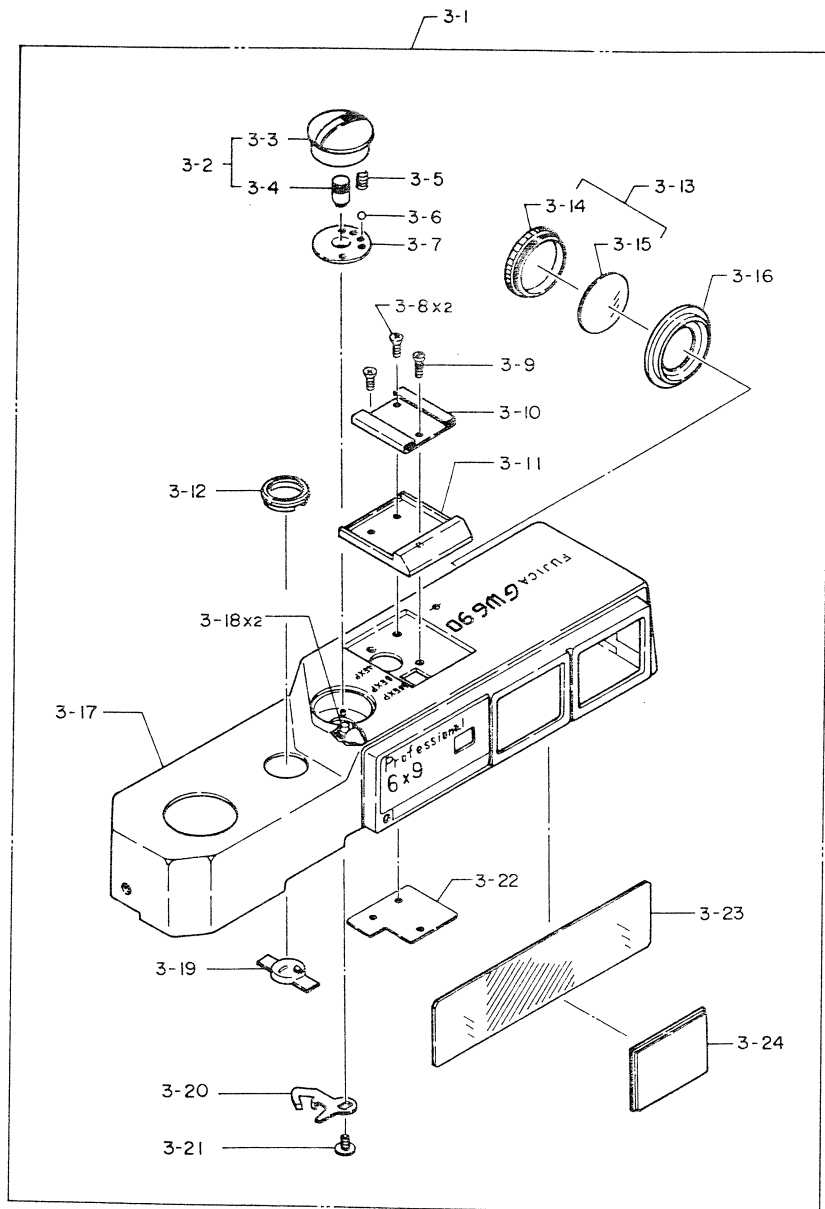
Ref No.	Part No.	Part Name	Q'ty	Remarks
2- 1	30A21290900	Chassis assembly 2, 5, 6, 7, 8, 9, 10, 11, 14, 15, 16, 17, 18, 19, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 40, 41, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60	1	
2- 2	32A2190930	Take-up shaft assembly 3, 4	1	
2- 3	32B486840	Take-up shaft	1	
2- 4	85B30040	Take-up claw	1	
2- 5	37B29490	Spool	1	
2- 6	85B486990	Base plate	1	
2- 7	111M170451S	Screw	2	
2- 8	50B30941	Spring	1	
2- 9	30B30950	Hook guide	2	
2-10	45B2190080	Camera back hook	1	
2-11	36A2190920	Exposure counter drum 12, 13 assembly	1	
2-12	36B486732	Collar	1	
2-13	36B486724	Exposure counter drum	1	
2-14	120M200503B	Set screw	1	
2-15	170M15020C	Pin	2	
2-16	32B2190060	Take-up spool holder	2	
2-17	50B307701	Spring	2	
2-18	31B30700	Take-up shaft holder	2	
2-19	29A2190940	Take-up spool knob 20, 21, 22, 23, 24, 25 assembly	2	
2-20	29B2190040	Take-up spool knob	2	
2-21	50B920720	Leaf spring	2	
2-22	170M12014N	Pin	2	
2-23	16B855790	Knob	2	
2-24	17B2190050	Shaft	2	



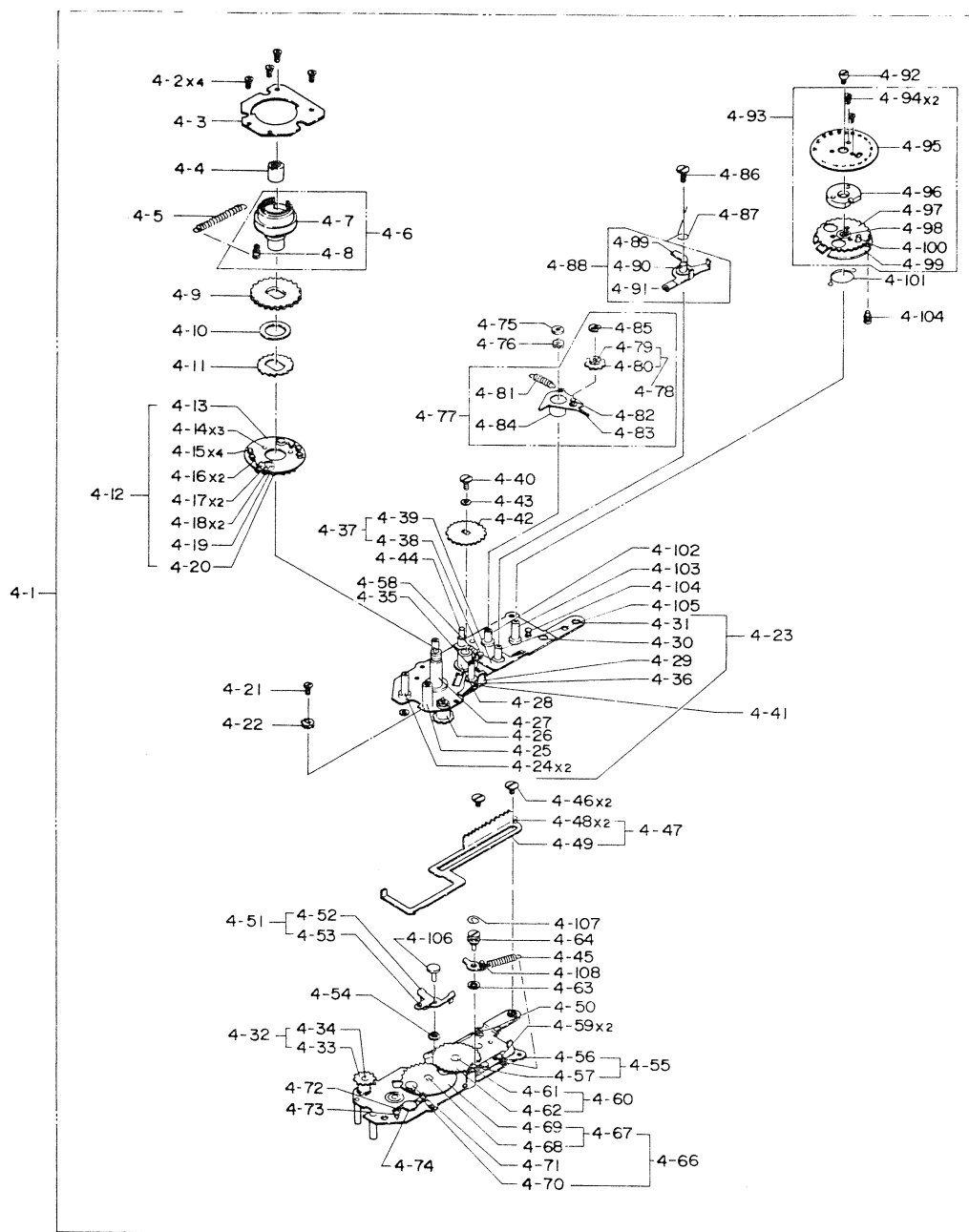
Ref No.	Part No.	Part Name	Q'ty	Remarks
2-25	85B2190070	Cover	2	
2-26	32B30750	Shaft	1	
2-27	50B1070	Spring	1	
2-28	45B1060	Hook	1	
2-29		Washer	1	
2-30	53B30721	Screw	1	
2-31	34B2190100	Take-up gear	1	
2-32	31B30220	Exposure counter drum shaft holder	1	
2-33	34B2190090	Exposure counter drive wheel	1	
2-34	32B486752	Exposure counter drum shaft	1	
2-35	23B2190030	Guide ring	2	
2-36	53B2190150	Screw	1	
2-37	47A2190590	Lock lever assembly 38, 39	1	
2-38	47B2190120	Lock lever	1	
2-39	17B2190130	Lock pin	1	
2-40	55B2190140	Washer	1	
2-41	50A2190910	Roller assembly 42, 43	2	
2-42	50B486970	Spring	2	
2-43	37B486980	Roller	2	
2-44	17B30160	Pin	1	
2-45	50B30170	Spring	1	
2-46	30B30150	Guide roller	1	
2-47	53B2190110	Screw	1	
2-48	31B486830	Film feed spool shaft	1	
2-49	50B486960	Pressure spring	1	
2-50	170M15025C	Pin	2	
2-51	41B2190180	Bracket	1	
2-52	111M200503S	Screw	3	
2-53	11B2190200	Cover	1	
2-54	110M170253S	Screw	2	
2-55	111M200503S	Screw	2	
2-56	41B2190170	Bracket	1	



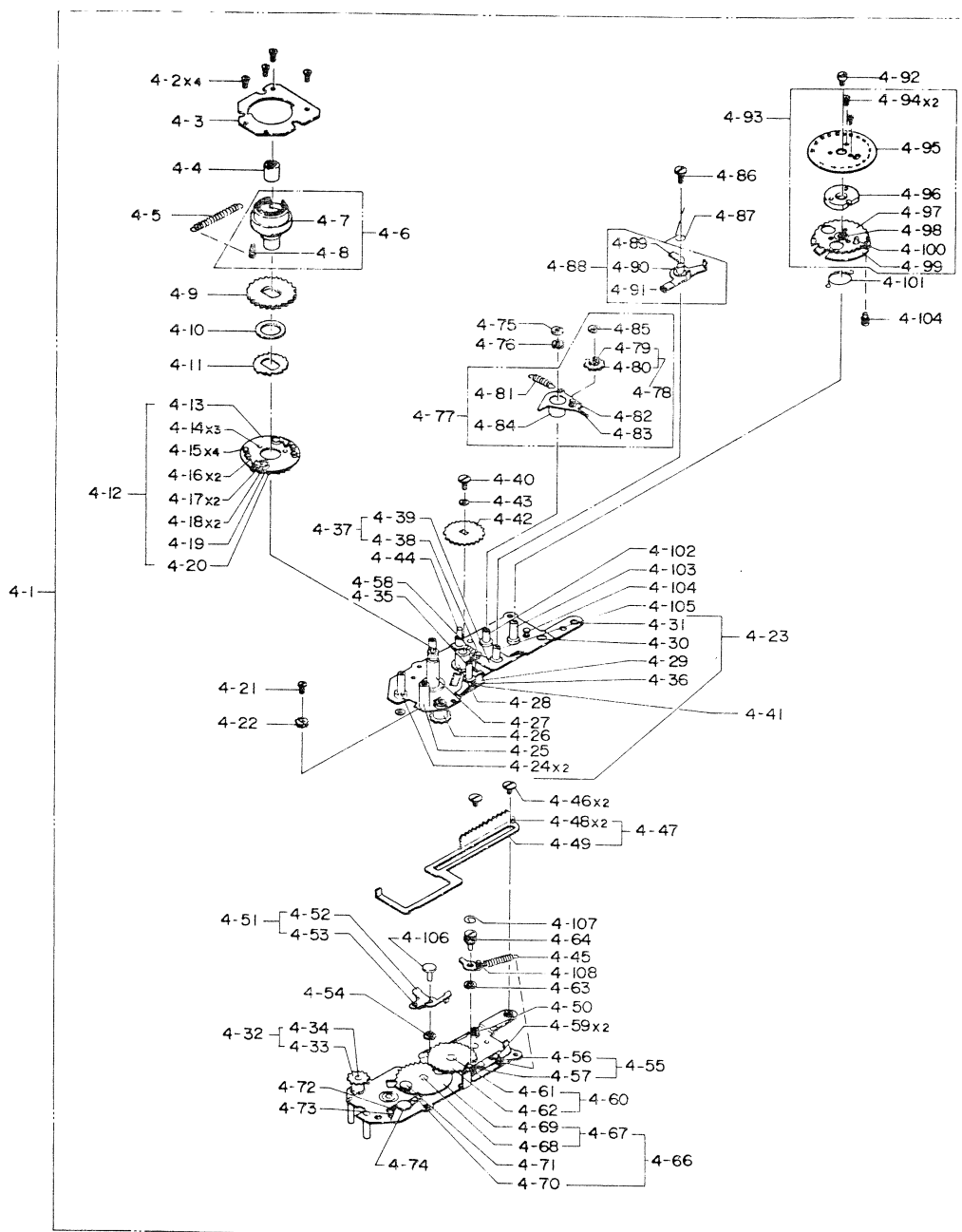
Ref No.	Part No.	Part Name	Q'ty	Remarks
2-57	111M200503S	Screw	3	
2-58	27B2190010	Hood	1	
2-59	110M170353S	Screw	4	
2-60	10B2190000	Chassis	1	



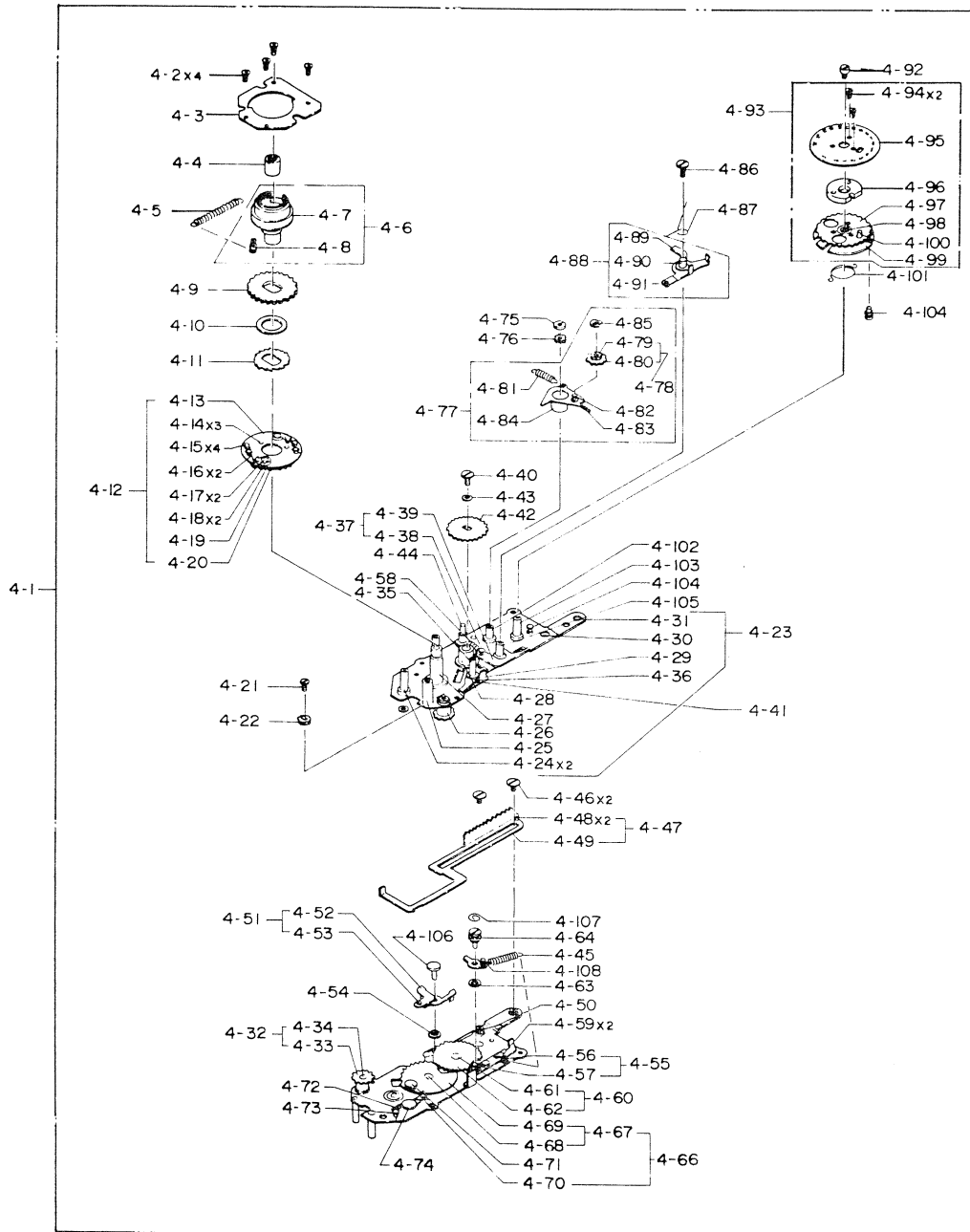
Ref No.	Part No.	Part Name	Q'ty	Remarks
3- 1	303A2193000	Top cover assembly 2, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 17, 18, 19, 20, 21, 22, 23, 24	1	
3- 2	16A2193010	Film selector assembly 3, 4	1	
3- 3	16B2192540	Film selector	1	
3- 4	32B2192530	Shaft	1	
3- 5	50B2192680	Spring	1	
3- 6	200M20	Steel ball	1	
3- 7	29B2192550	Base plate	1	
3- 8	111M170503C	Screw	2	
3- 9	53B2192670	Screw	1	
3-10	41B2192610	Accessory shoe	1	
3-11	41B2192620	Seat plate	1	
3-12	84B2192650	Exposure counter window	1	
3-13	23A102900	Viewfinder eyepiece 14, 15 assembly	1	
3-14	23B95570	Eyecup support ring	1	
3-15	23B95580	Lens	1	
3-16	23B2192580	Eyepiece	1	
3-17	11B2192510	Top cover	1	
3-18	17B2192570	Rivet	2	
3-19	6B2192640	Exposure counter window	1	
3-20	47B2192560	Limit lever	1	
3-21	53B2191310	Screw	1	
3-22	46B2192630	Seat plate	1	
3-23	6B2192590	Window glass	1	
3-24	6B2192600	Viewfinder frame	1	



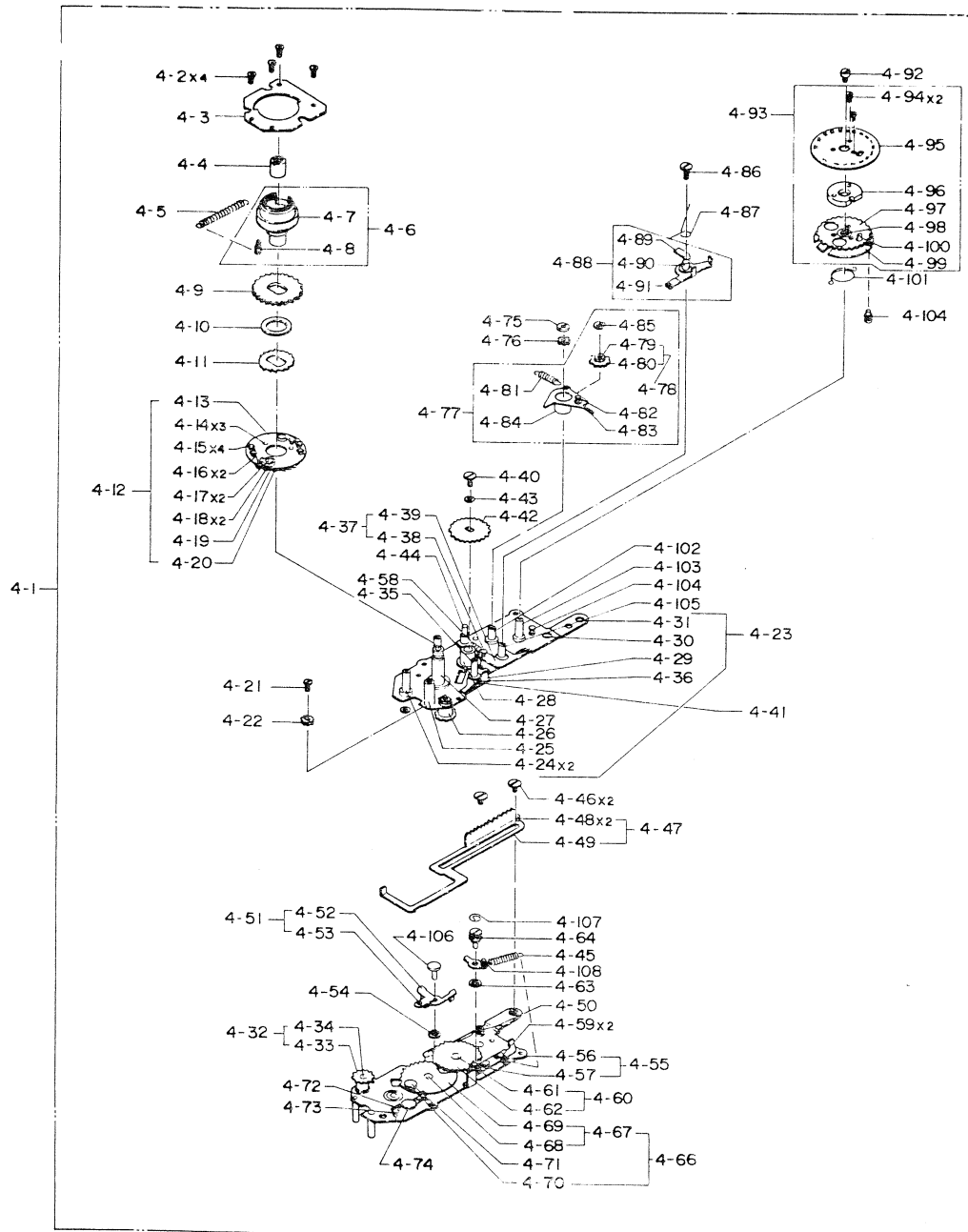
Ref No.	Part No.	Part Name	Q'ty	Remarks
4- 1	310A2192000	Film take-up mechanism 2, 3, 4, 5, 6, 7, 10, 11, assembly 12, 13, 22, 23, 24, 33, 36, 37, 38, 41, 42, 43, 44, 45, 46, 47, 48, 49, 52, 53, 56, 57, 60, 61, 62, 65, 66, 67, 68, 74, 75, 76, 77, 78, 79, 80, 90, 91, 92, 96, 98, 108	4	
4- 2	111M170401S	Screw	1	
4- 3	46B2191090	Base plate	1	
4- 4	54B29361	Nut	1	
4- 5	50B29380	Spring	1	
4- 6	42A2192020	Sleeve assembly 7, 8	1	
4- 7	42B2191010	Sleeve	1	
4- 8	17B29340	Pin	1	
4- 9	34B2191020	Gear	1	
4- 10	55B2191450	Washer	1	
4- 11	34B29350	Ratchet wheel	1	
4- 12	85A2192060	Disc assembly 13, 14, 15, 16, 17, 18, 19, 20	1	
4- 13	85B29272	Disc	1	
4- 14	17B489560	Rivet	3	
4- 15	17B29290	Pin	4	
4- 16	50B29310	Spring	2	
4- 17	17B489570	Claw shaft	2	
4- 18	85B489580	Pawl	2	
4- 19	34B489550	Gear	1	
4- 20	34B489541	Pawl wheel	1	
4- 21	53B29190	Screw	1	
4- 22	34B489620	Gear	1	
4- 23	46A2192010	Base plate assembly 24, 25, 26, 27, 28, 29, 30, 31	1	
4- 24	54B29160	Column	2	



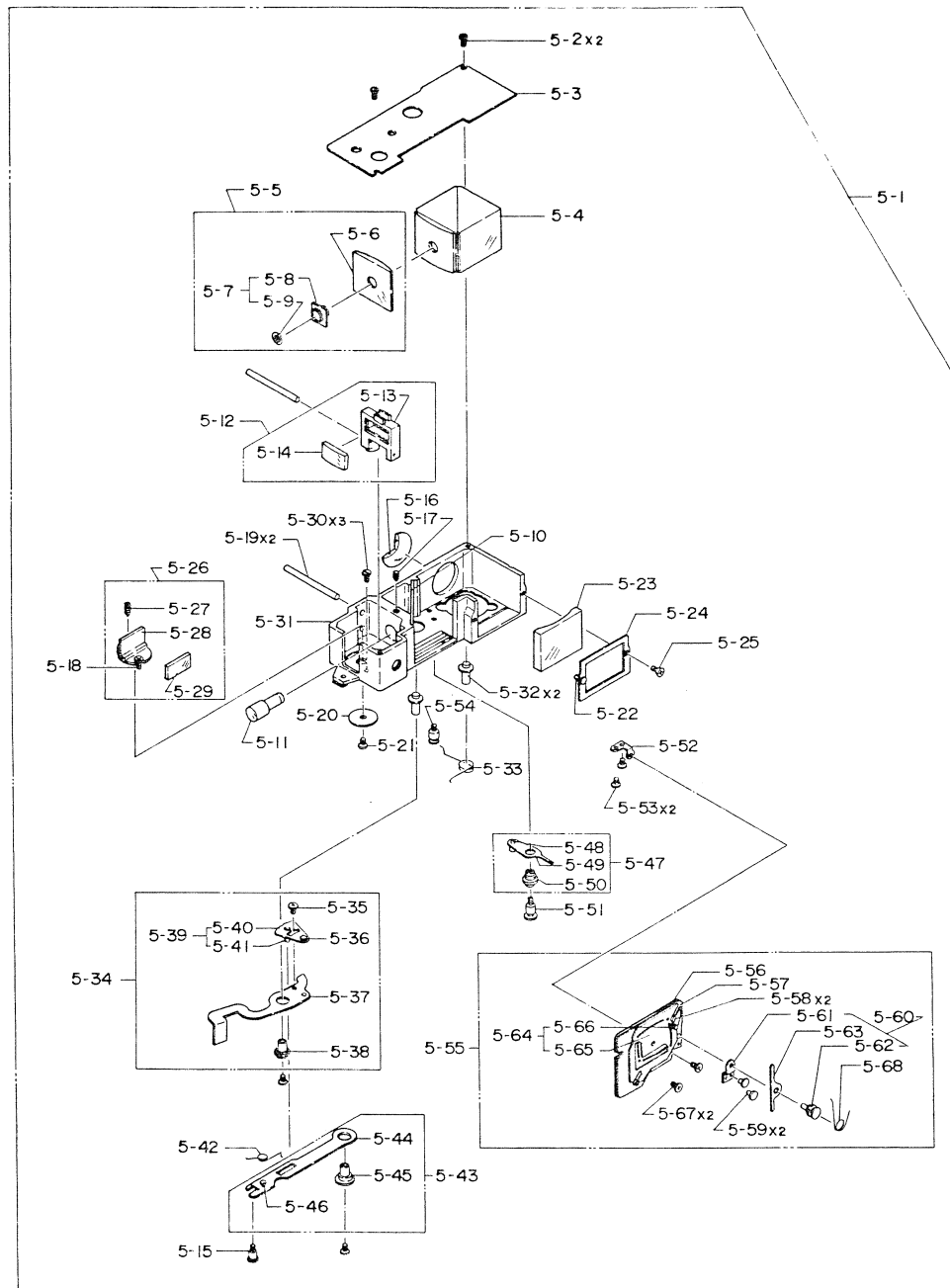
Ref No.	Part No.	Part Name	Q'ty	Remarks
4- 25	54B29090	Column	1	
4- 26	42B489680	Sleeve	1	
4- 27	32B29240	Main shaft	1	
4- 28	31B489591	Sleeve	1	
4- 29	46B2191000	Arm	1	
4- 30	32B2191301	Shaft	1	
4- 31	32B2191291	Shaft	1	
4- 32	34A2192050	Gear assembly 33, 34	1	
4- 33	34B2191070	Gear	1	
4- 34	32B489611	Gear	1	
4- 35	54B29440	Column	1	
4- 36	45B29482	Pawl	1	
4- 37	47A2192140	Return lever assembly 38, 39	1	
4- 38	17B2191400	Pin	1	
4- 39	47B2191380	Return lever	1	
4- 40	53B29220	Screw	1	
4- 41	55B29230	Washer	1	
4- 42	34B2191080	Gear	1	
4- 43	165M232H	Washer	1	
4- 44	17B2191410	Guide shaft	1	
4- 45	50B29870	Spring	1	
4- 46	53B2191310	Screw	2	
4- 47	34A2192110	Rack assembly 48, 49	1	
4- 48	17B28910	Pin	2	
4- 49	34B2191280	Rack	1	
4- 50	50B2191440	Spring	1	
4- 51	47A2192150	Lock lever assembly 53, 54	1	
4- 52	47B2191420	Lock lever	1	
4- 53	17B28830	Interlock pin	1	
4- 54	32B28871	Rotary base	1	
4- 55	47A2192130	Lever assembly 56, 57	1	
4- 56	47B2191361	Lever	1	



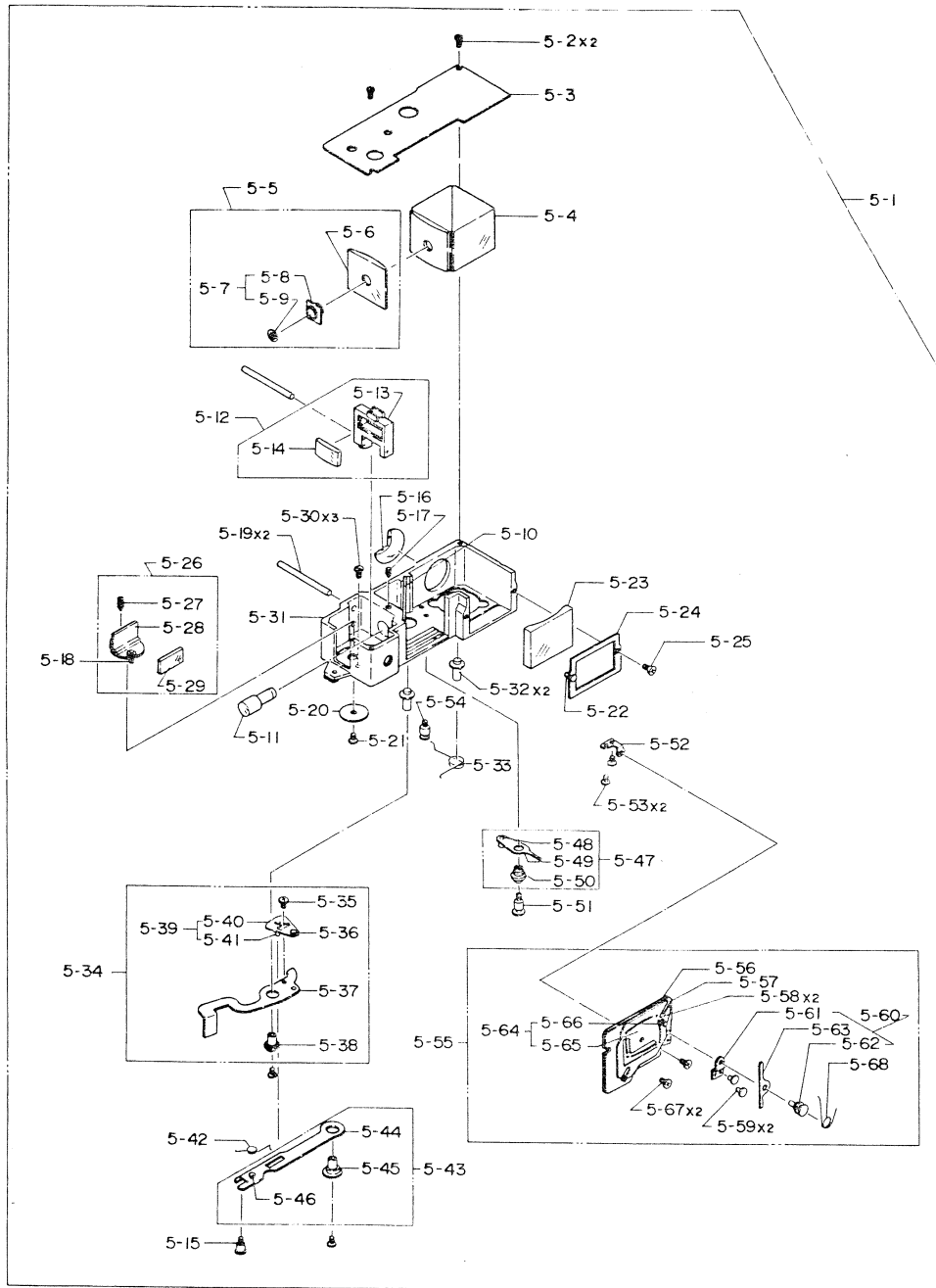
Ref No.	Part No.	Part Name	Q'ty	Remarks
4- 57	17B29050	Interlock pin	1	
4- 58	50B2191390	Spring	1	
4- 59	17B2191370	Guide pin	2	
4- 60	34A2192090	Gear assembly 61, 62	1	
4- 61	34B2191230	Gear	1	
4- 62	32B2191220	Gear shaft	1	
4- 63	55B2191141	Washer	1	
4- 64	17B2191152	Shaft	1	
4- 65	47B2191130	Ratchet pawl	1	
4- 66	34A2192040	Ratchet wheel assembly 67, 71, 72	1	
4- 67	34A2192030	Ratchet wheel assembly 68, 69	1	
4- 68	32B2191040	Shaft	1	
4- 69	34B2191030	Ratchet wheel	1	
4- 70	30B2191060	Roller	1	
4- 71	32B2191050	Shaft	1	
4- 72	47B2191112	Hook	1	
4- 73	50B2191121	Spring	1	
4- 74	17B2191101	Shaft	1	
4- 75	54B494060	Nut	1	
4- 76	34B494050	Gear	1	
4- 77	85A2192080	Rotary plate assembly 78, 81, 82, 83, 84, 85	1	
4- 78	34A2192070	Gear assembly 79, 80	1	
4- 79	34B2191190	Gear	1	
4- 80	34B2191200	Gear	1	
4- 81	50B494110	Spring	1	
4- 82	32B2191180	Gear shaft	1	
4- 83	85B2191160	Rotary plate	1	
4- 84	29B2191170	Rotary barrel	1	
4- 85	191M012T	E-clip	1	
4- 86	53B2191470	Screw	1	
4- 87	50B2191460	Spring	1	
4- 88	47A2192120	Lever assembly 89, 90, 91	1	



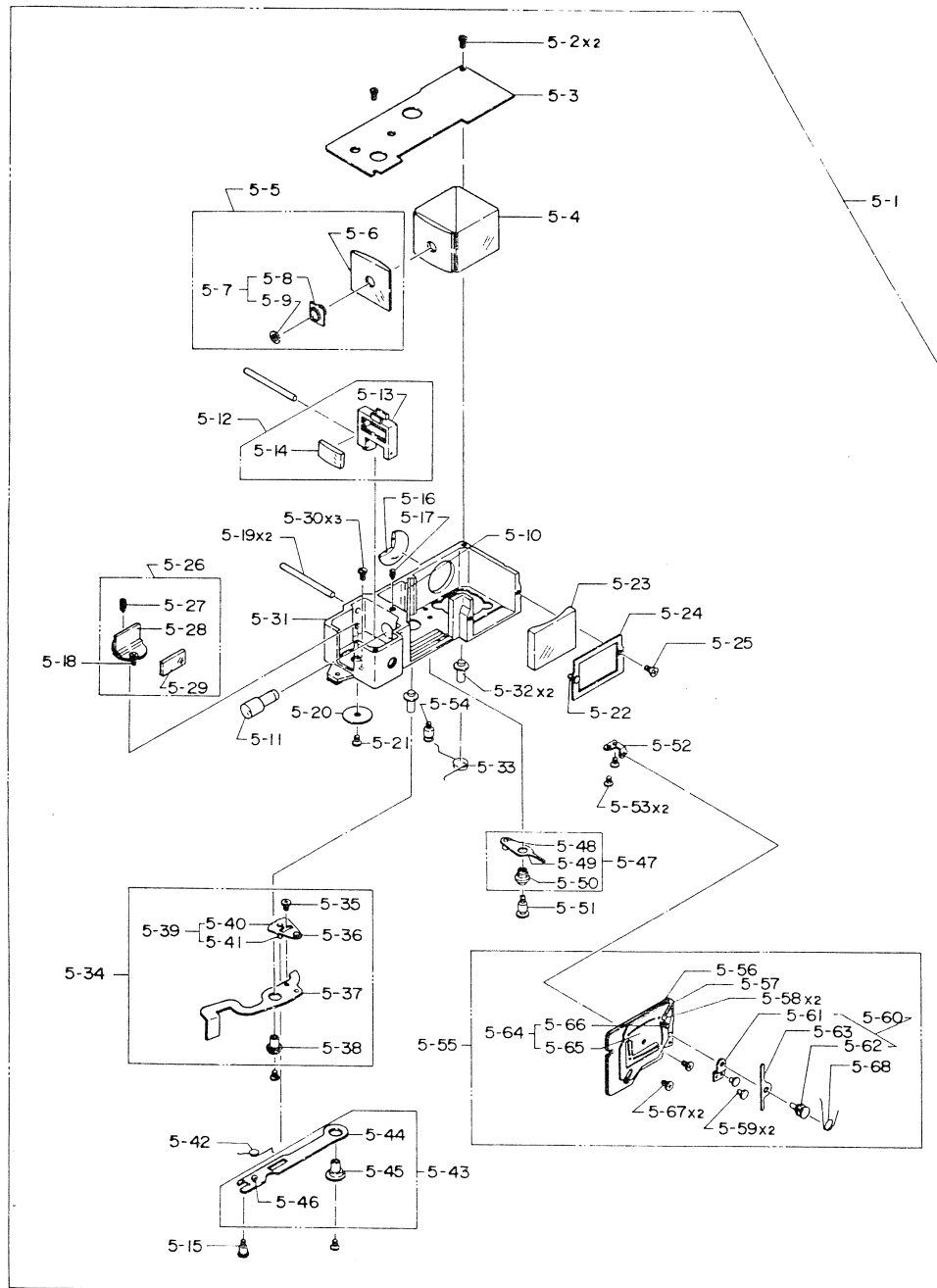
Ref No.	Part No.	Part Name	Q'ty	Remarks
4- 89	47B2191350	Lever	1	
4- 90	42B2191340	Bushing	1	
4- 91	17B28830	Interlock pin	1	
4- 92	53B28730	Screw	1	
4- 93	34A2192100	Dial assembly 94, 95, 96, 97, 98, 99, 100	1	
4- 94	53B721100	Screw	2	
4- 95	58B494193	Dial	1	
4- 96	24B494181	Spacer	1	
4- 97	34B494170	Counter gear	1	
4- 98	29B2191250	Sleeve	1	
4- 99	34B494140	Disc	1	
4-100	17B2191260	Connecting pin	1	
4-101	50B28720	Spring	1	
4-102	29B2191210	Shaft holder	1	
4-103	32B2191240	Shaft	1	
4-104	17B2191270	Stopper pin	2	
4-105	32B2191330	Lever shaft	1	
4-106	17B2191430	Lever shaft	1	
4-107	50B2191490	Spring	1	
4-108	17B2191480	Lever	1	



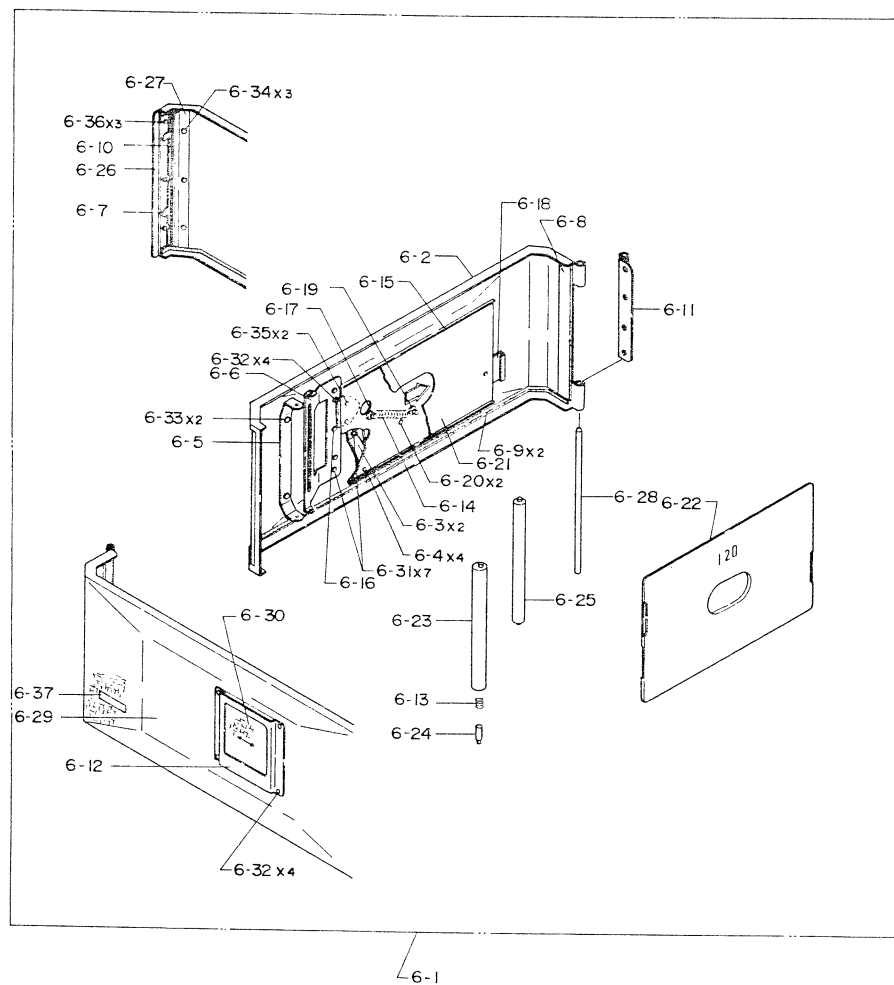
Ref No.	Part No.	Part Name	Q'ty	Remarks
5- 1	99A932A00	Range/Viewfinder assembly (SR26A) 2, 3, 4, 7, 10, 11, 12, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 30, 31, 32, 33, 34, 39, 42, 43, 47, 51, 52, 53, 54, 55, 67, 68	1	
5- 2	110M170251S	Screw	2	
5- 3	110M2193450	Cover	1	
5- 4	2A2167030	Prism	1	
5- 5	1A2193740	Lens assembly 6, 7	1	
5- 6	1B2167070	Lens	1	
5- 7	21A2193730	Aperture barrel assembly 8, 9	1	
5- 8	21B2193460	Aperture barrel	1	
5- 9	26B450260	Aperture	1	
5-10	3B2167080	Reflector	1	
5-11	2A2167040	Prism	1	
5-12	21A2193710	Moving frame assembly 13, 14	1	
5-13	21B2193340	Moving frame	1	
5-14	1B2167110	Lens	1	
5-15	17B2193350	Pin	1	
5-16	1B2167050	Lens	1	
5-17	120M200303F	Set screw	1	
5-18	17B32470	Eccentric pin	1	
5-19	30B2193360	Guide rail	2	
5-20	50B32480	Leaf spring	1	
5-21	53B32490	Screw	1	
5-22	17B2193230	Rivet	1	
5-23	1B2167060	Lens	1	
5-24	11B2193220	Mask	1	
5-25	111M170251S	Screw	1	
5-26	10A2193720	Mirror base assembly 27, 28, 29	1	
5-27	53B32460	Adjust screw	1	
5-28	10B2193240	Mirror base	1	



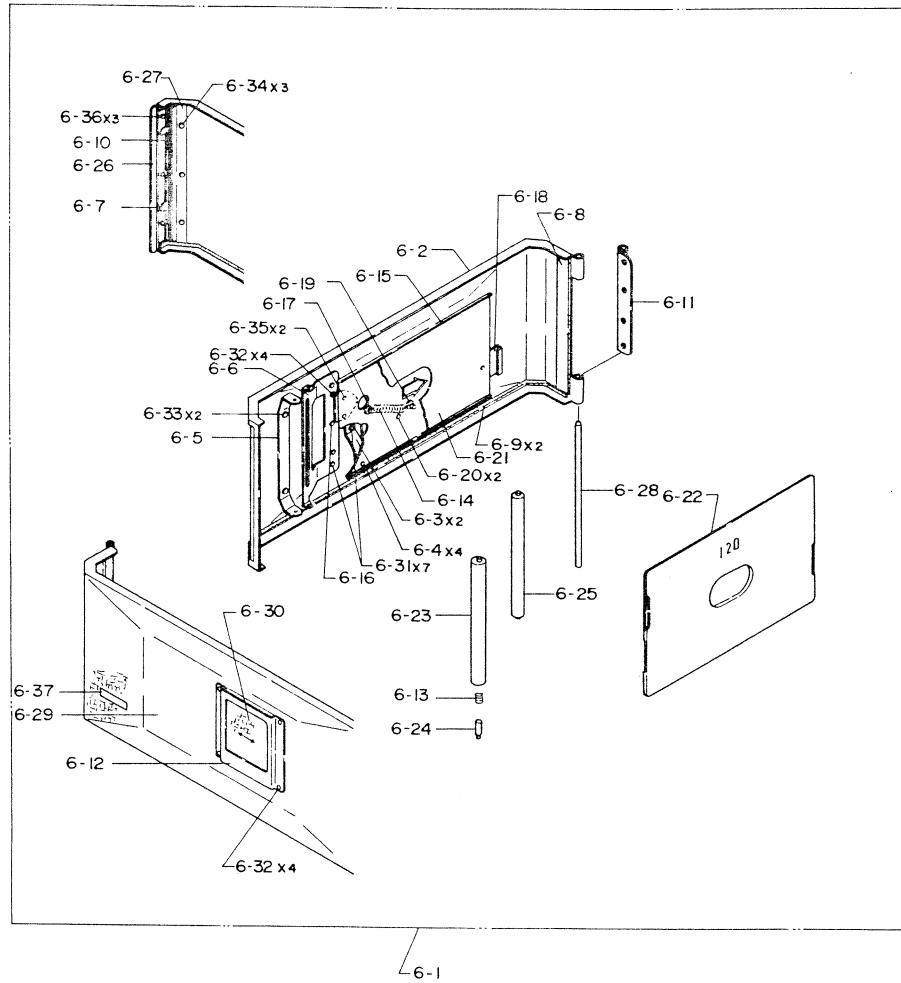
Ref No.	Part No.	Part Name	Q'ty	Remarks
5-29	3B2167120	Reflector	1	
5-30	53B32580	Screw	3	
5-31	10B2193210	Viewfinder case	1	
5-32	32B32590	Shaft	2	
5-33	50B2193330	Spring	1	
5-34	47A2193770	Linkage assembly 35, 36, 38, 39	1	
5-35	53B32770	Screw	1	
5-36	32B32760	Shaft	1	
5-37	47B2193270	Linkage	1	
5-38	42B2193280	Bushing	1	
5-39	47A2193760	Adjust lever assembly 40, 41	1	
5-40	47B2193290	Adjust lever	1	
5-41	17B32740	Pin	1	
5-42	50B2193470	Spring	1	
5-43	47A2193750	Linkage assembly 44, 45, 46	1	
5-44	47B2193310	Linkage	1	
5-45	42B2193320	Bushing	1	
5-46	17B29290	Pin	1	
5-47	47A2193810	Interlock lever assembly 48, 49, 50	1	
5-48	17B2193300	Pin	1	
5-49	47B450331	Interlock lever	1	
5-50	42B450340	Bushing	1	
5-51	53B450361	Screw	1	
5-52	41B2193250	Angle	1	
5-53	110M170251S	Screw	2	
5-54	17B2193260	Pin	1	
5-55	29A2193800	Viewfinder frame 56, 57, 58, 59, 60, 64 assembly	1	
5-56	29B213370	Base plate	1	
5-57	5B2193380	Stationary viewfinder frame	1	
5-58	17B2193400	Guide pin	2	
5-59	170M10012B	Pin	2	



Ref No.	Part No.	Part Name	Q'ty	Remarks
5-60	41A2193780	Angle assembly 61, 62, 63	1	
5-61	41B2193410	Angle	1	
5-62	17B2193430	Shaft	1	
5-63	47B2193420	Interlock lever	1	
5-64	5A2193790	Moving viewfinder 65, 66 frame assembly	1	
5-65	5B2193390	Moving viewfinder frame	1	
5-66	17B450281	Pin	1	
5-67	53B2193440	Screw	2	
5-68	50B450310	Spring	1	

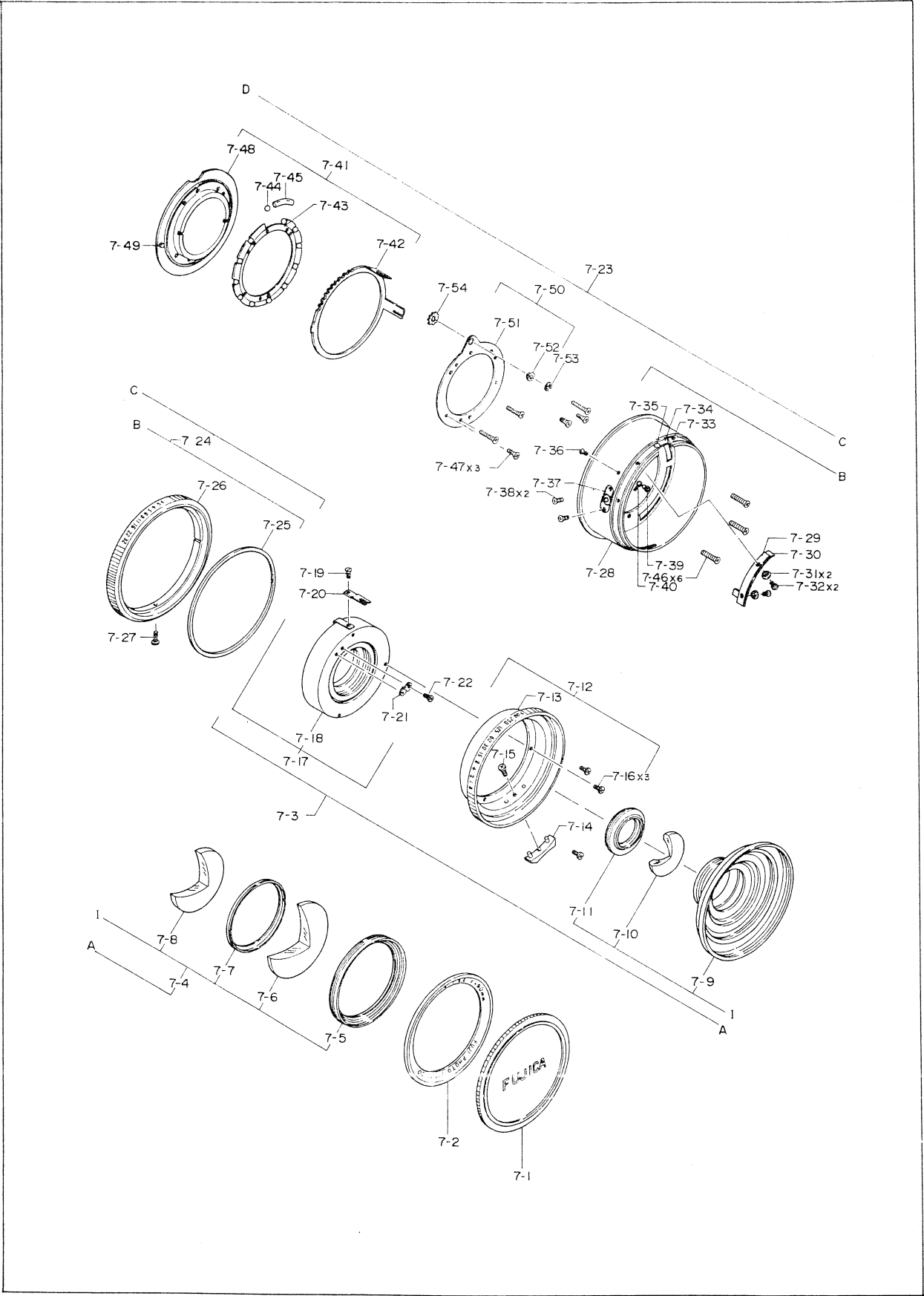


Ref No.	Part No.	Part Name	Q'ty	Remarks
6- 1	302A2192900	Camera back assembly 1, 2, 3, 4, 5, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36	1	
6- 2	11B31654	Camera back	1	
6- 3	50B31660	Spring	2	
6- 4	17B31700	Rivet	4	
6- 5	85B31710	Roller support	1	
6- 6	50B31730	Leaf spring	1	
6- 7	45B31760	Hook	1	
6- 8	27B31780	Moquette (I)	1	
6- 9	27B31790	Moquette (II)	2	
6-10	27B32000	Moquette (III)	1	
6-11	19B32020	Hinge	1	
6-12	32B32040	Pocket	1	
6-13	50B30170	Spring	1	
6-14	50B94640	Spring	1	
6-15	11B492530	Pressure plate holder	1	
6-16	44B492540	Stationary plate	1	
6-17	17B492550	Pin	1	
6-18	44B492560	Moving plate	1	
6-19	17B492570	Pin	1	
6-20	17B492580	Guide rivet	2	
6-21	51B492600	Velveteen	1	
6-22	44B492610	Pressure plate	1	
6-23	37B492630	Roller	1	
6-24	17B492640	Moving pin	1	
6-25	37B492660	Roller	1	
6-26	27B492672	Cover plate	1	
6-27	27B492680	Light shielding plate	1	
6-28	32B32031	Hinge shaft	1	

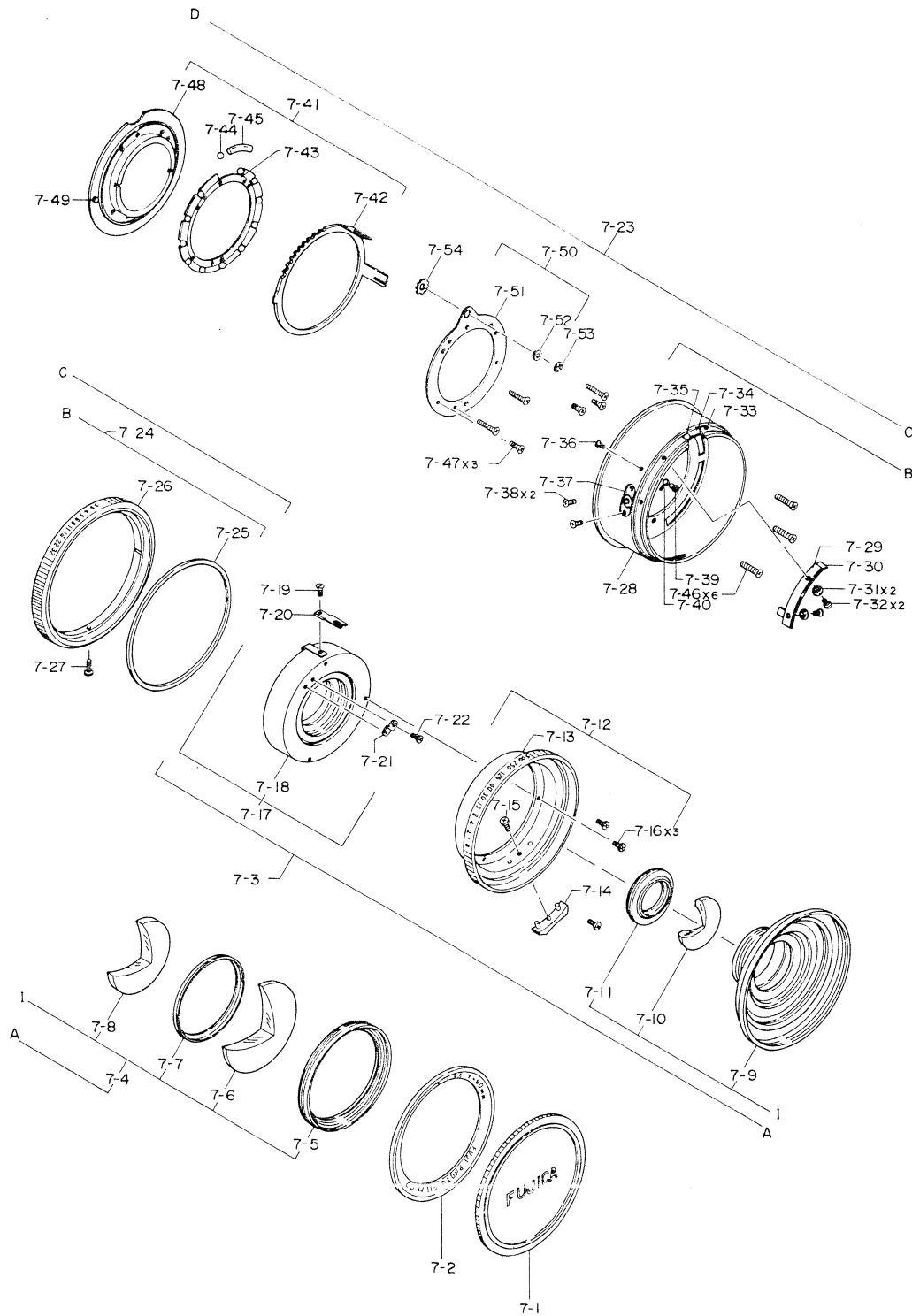


Ref No.	Part No.	Part Name	Q'ty	Remarks
6-29	59B2192910	Leather	1	
6-30	59B2192920	Leather	1	
6-31	170M15014B	Pin	7	
6-32	170M15016B	Pin	4	
6-33	170M15022B	Pin	2	
6-34	170M15028B	Pin	3	
6-35	170M200016B	Pin	2	
6-36	170M15022B	Pin	3	
6-37	58B29520	Number plate	1	

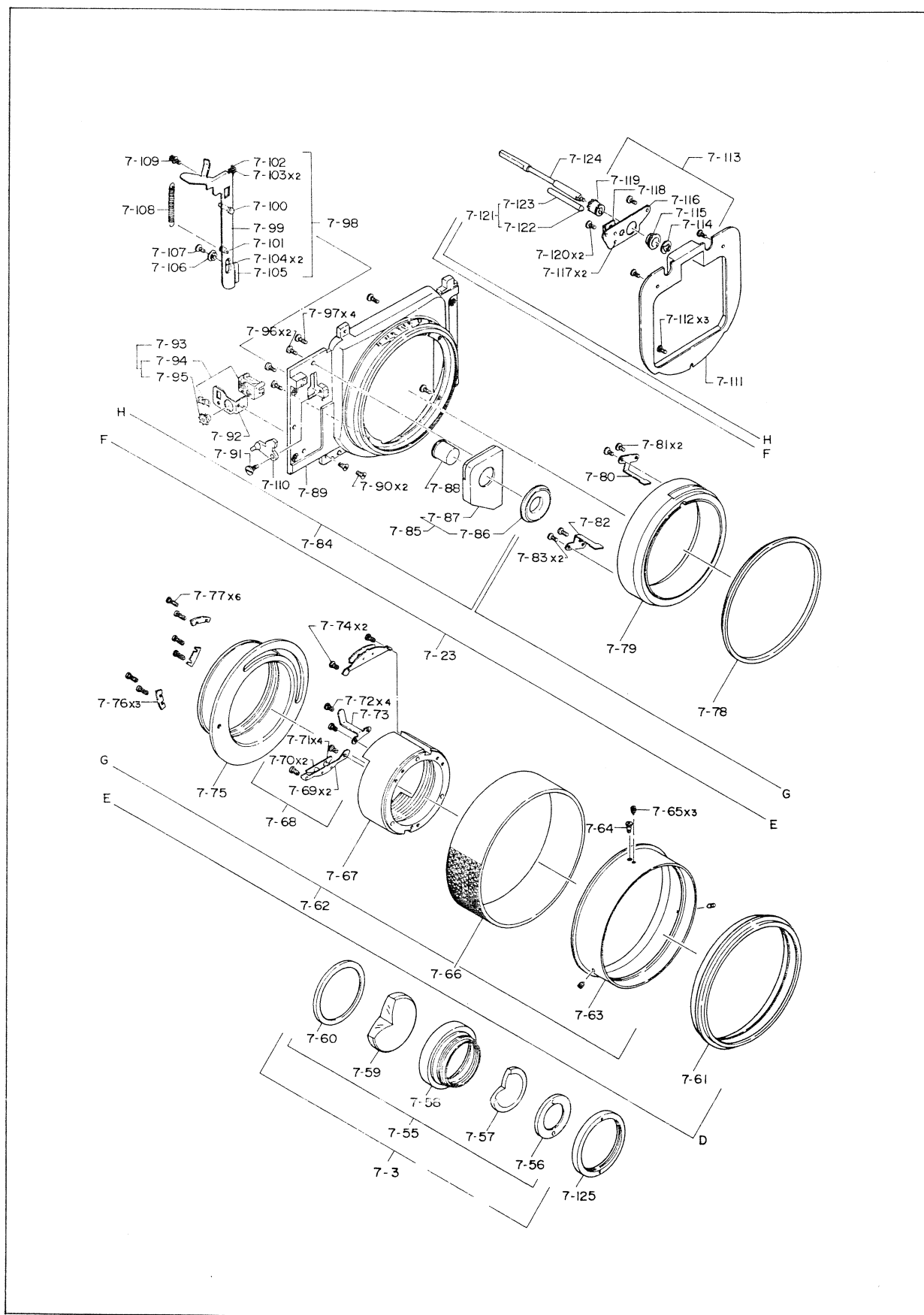
PARTS LIST (FUJICA GW690)
 FUJICA GW690, GSW690



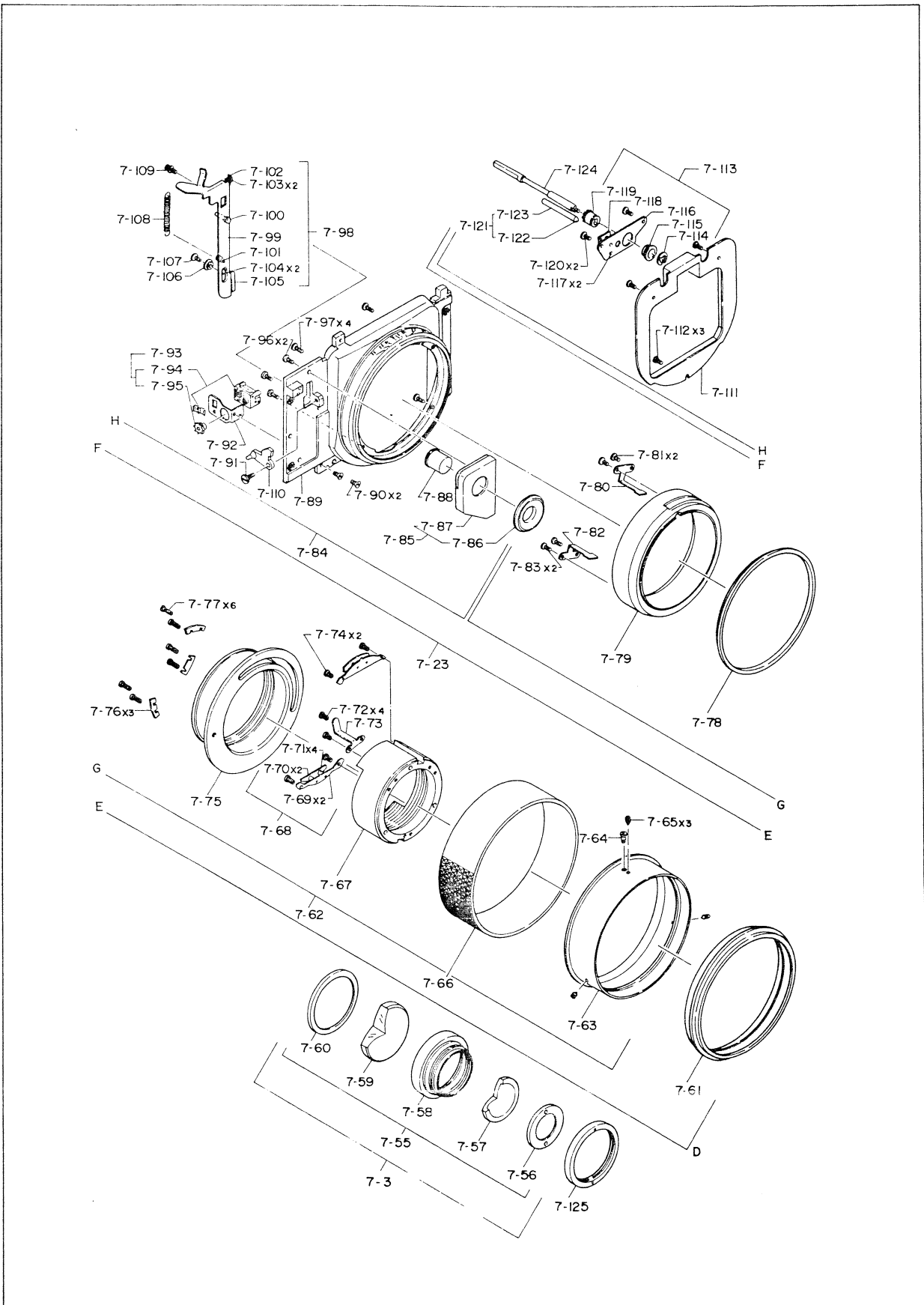
Ref No.	Part No.	Part Name	Q'ty	Remarks
7- 1	57B2189070	Lens cap	1	
7- 2	23B2351180	Name ring	1	
7- 3	38A2351200	Shutter assembly (II) 4, 17, 55	1	
7- 4	21A2351210	Front lens assembly 5, 6, 7, 8, 9, 10, 11	1	
7- 5	23B2351140	Hold ring	1	
7- 6	1B2349990	Lens (G1)	1	
7- 7	23B2351130	Hold ring	1	
7- 8	1B2350000	Lens (G2)	1	
7- 9	21B2351110	Front lens frame	1	
7- 10	1B2350010	Lens (G3)	1	
7- 11	23B2351120	Hold ring	1	
7- 12	23A2188940	Shutter speed selector 13, 14, 15, 16 ring assembly	1	
7- 13	23B2188630	Shutter speed selector ring	1	
7- 14	16B2188790	Knob	1	
7- 15	111M200401S	Screw	1	
7- 16	110M170303S	Screw	3	
7- 17	38A2351230	Shutter assembly (I) 18, 19, 20, 21, 22	1	
7- 18	38B2188090	0# Shutter	1	
7- 19	101M120143N	Screw	1	
7- 20	47B1349040	Aperture lever	1	
7- 21	109B35870	Contact	1	
7- 22	110M140121N	Screw	1	
7- 23	324A2188851	Lens barrel assembly 24, 41, 47, 49, 50, 53, 54, 61, 62, 66, 84, 90, 92, 93, 96, 97, 121	1	
7- 24	23A2188930	Index ring assembly 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39	1	
7- 25	23B2188620	Hold ring	1	
7- 26	23B2188600	Aperture selector ring	1	
7- 27	53B2188610	Screw	1	



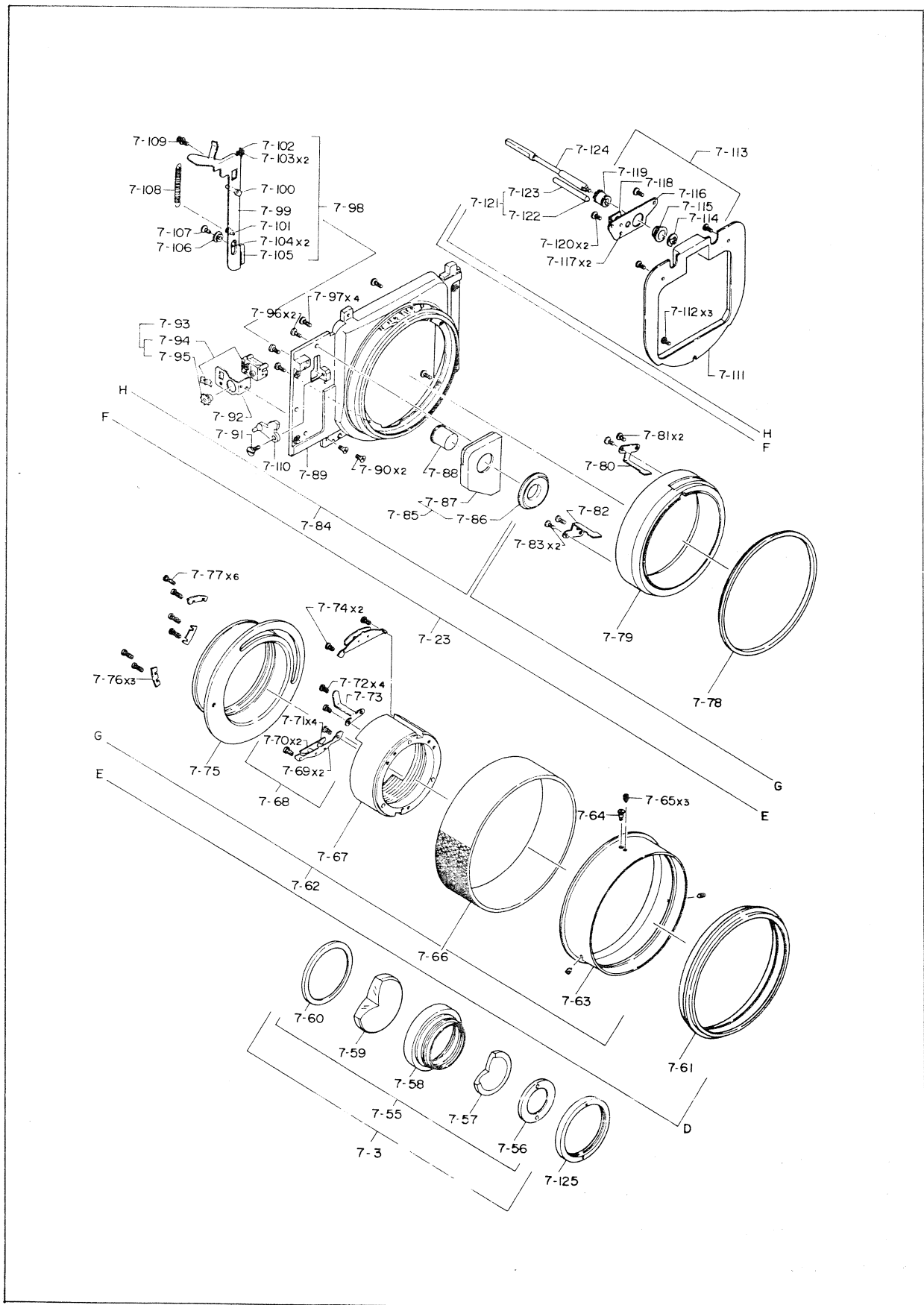
Ref No.	Part No.	Part Name	Q'ty	Remarks
7- 28	23B2188540	Index ring	1	
7- 29	108B2188570	Insulation plate	1	
7- 30	108B2188580	Contact palte	1	
7- 31	42B446620	Insulation collar	2	
7- 32	110M1702835	Screw	2	
7- 33	170M15018F	Rivet	1	
7- 34	50B2188550	Leaf spring	1	
7- 35	200M20	Steel ball	1	
7- 36	53B2188590	Screw	1	
7- 37	112A448050	Sync socket assembly	1	
7- 38	111M170351N	Screw	2	
7- 39	110M200253N	Screw	1	
7- 40	111B385390	Lug	1	
7- 41	23A2188910	Shutter frame assembly 42, 43, 44, 45, 48, 49	1	
7- 42	34B2188520	Set plate	1	
7- 43	23B2188740	Ring	1	
7- 44	200M20	Steel ball	12 ~	
7- 45	24B2188510	Spacer	12 ~	
7- 46	111M200901S	Screw	6	
7- 47	111M170451S	Screw	3	
7- 48	23B2188490	Shutter frame	1	
7- 49	17B2188500	Stopper pin	1	
7- 50	47A2188920	Holder assembly 51, 52	1	
7- 51	47B2188530	Holder	1	
7- 52	42B99361	Shaft holder	1	
7- 53	191M12	E-clip	1	
7- 54	34B2188380	Gear	1	
7- 55	21A2351220	Rear lens assembly 56, 57, 58, 59, 60	1	
7- 56	23B2351160	Hold ring	1	
7- 57	1B2350020	Lens (G4)	1	
7- 58	21B2351151	Rear lens frame	1	
7- 59	1B2350030	Lens (G5)	1	



Ref No.	Part No.	Part Name	Q'ty	Remarks
7- 60	23B2351170	Hold ring	1	
7- 61	23B2188660	Focusing ring (II)	1	
7- 62	21A2188900	Helicoid assembly 63, 64, 65, 67, 68, 75, 76, 77, 78, 79, 80, 81, 82, 83	1	
7- 63	23B2188640	Focusing ring (I)	1	
7- 64	53B2188810	Screw	1	
7- 65	120M200301S	Set screw	3	
7- 66	59B2188690	Knurled ring	1	
7- 67	21B2188440	Male helicoid	1	
7- 68	27A2189000	Light shielding plate 69, 70, 71 assembly	2	
7- 69	27B2188700	Light shielding plate (I)	2	
7- 70	27B2188710	Light shielding plate (II)	2	
7- 71	17B2188720	Pin	4	
7- 72	110M140251S	Screw	4	
7- 73	47B2188670	Interlock plate	1	
7- 74	110M1403535	Screw	2	
7- 75	23B2188430	Helicoid ring	1	
7- 76	47B2188450	Thrust plate	3	
7- 77	17B2188460	Set screw	6	
7- 78	23B2188420	Ring	1	
7- 79	23B2188410	Hold ring	1	
7- 80	30B2188470	Helicoid guide (I)	1	
7- 81	111M200503S	Screw	2	
7- 82	30B2188480	Helicoid guide (II)	1	
7- 83	110M200503S	Screw	2	
7- 84	46A2188860	Front mask assembly 85, 88, 89, 90, 91, 93, 98, 106, 107, 108, 109, 110, 111, 112, 113, 120, 124	1	
7- 85	12A2188890	Cover assembly 86, 87	1	
7- 86	84B2188180	Front shutter release ring	1	
7- 87	12B2188170	Cover	1	
7- 88	16B2188200	Front shutter release	1	

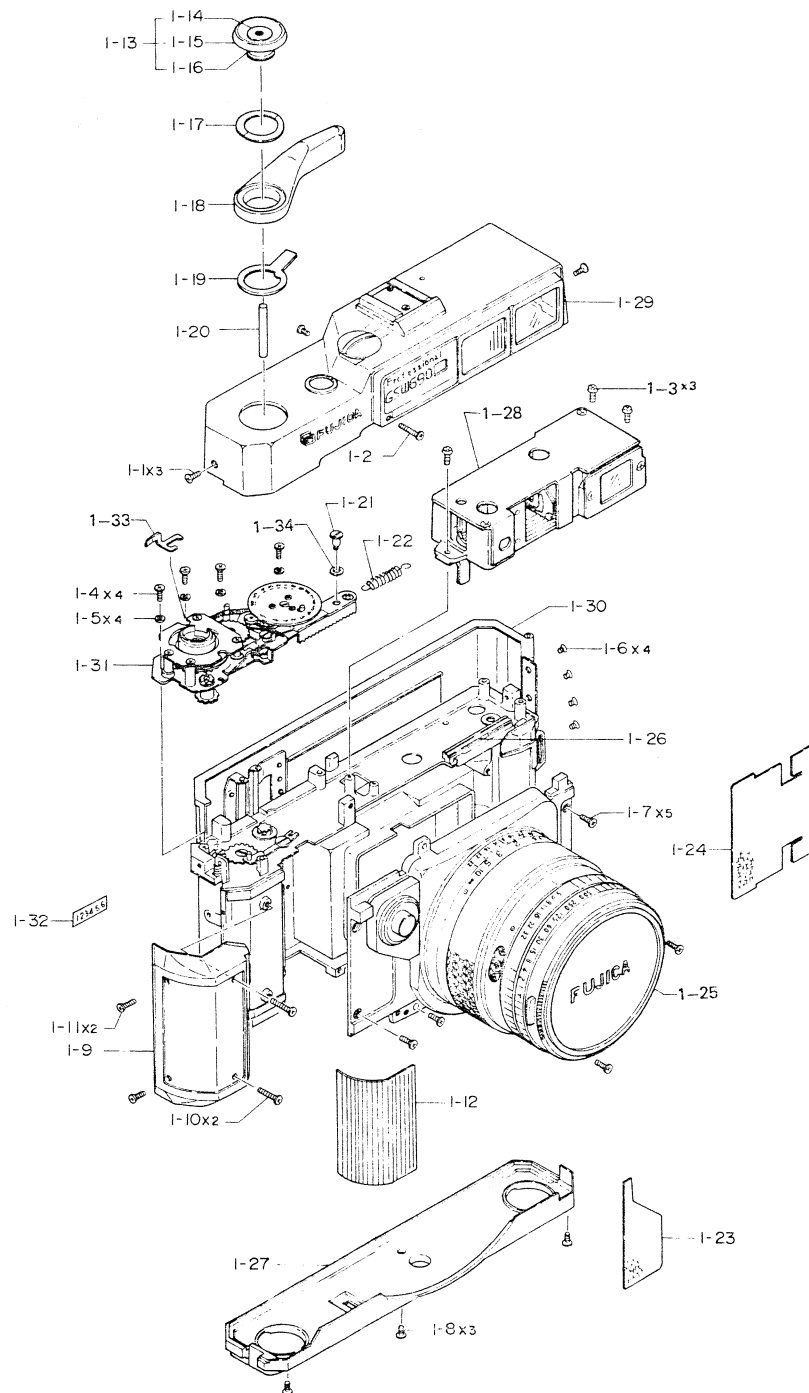


Ref No.	Part No.	Part Name	Q'ty	Remarks
7- 89	46B2188160	Front mask	1	
7- 90	111M170351S	Screw	2	
7- 91	32B2188220	Shaft	1	
7- 92	41B2188760	Angle	1	
7- 93	322A2188980	Shutter actuation 94, 95 counter assembly	1	
7- 94	322A2188980	Shutter actuation counter	1	
7- 95	34B2188770	Ratchet wheel	1	
7- 96	110M200601S	Screw	2	
7- 97	110M260603S	Screw	4	
7- 98	47A2188870	Release lever assembly 99, 100, 101, 102, 103, 104, 105	1	
7- 99	47B2188260	Release lever	1	
7-100	17B2188270	Pin	1	
7-101	17B2188280	Pin	1	
7-102	47B2188730	Release lever	1	
7-103	170M12023F	Rivet	2	
7-104	170M12018F	Rivet	2	
7-105	45B2188750	Claw	1	
7-106	32B488080	Guide shaft	1	
7-107	110M200401S	Screw	1	
7-108	50B2188300	Spring	1	
7-109	32B2188290	Guide shaft	1	
7-110	47B2188210	Lever	1	
7-111	27B2188680	Light shielding mask	1	
7-112	110M170301S	Screw	3	
7-113	46A2188880	Positioning plate assembly 114, 115, 116, 117, 118	1	
7-114	191M50	E-clip	1	
7-115	32B2188340	Bushing	1	
7-116	46B2188310	Positioning plate	1	
7-117	170M15025F	Rivet	2	
7-118	46B2188320	Shaft holding plate	1	



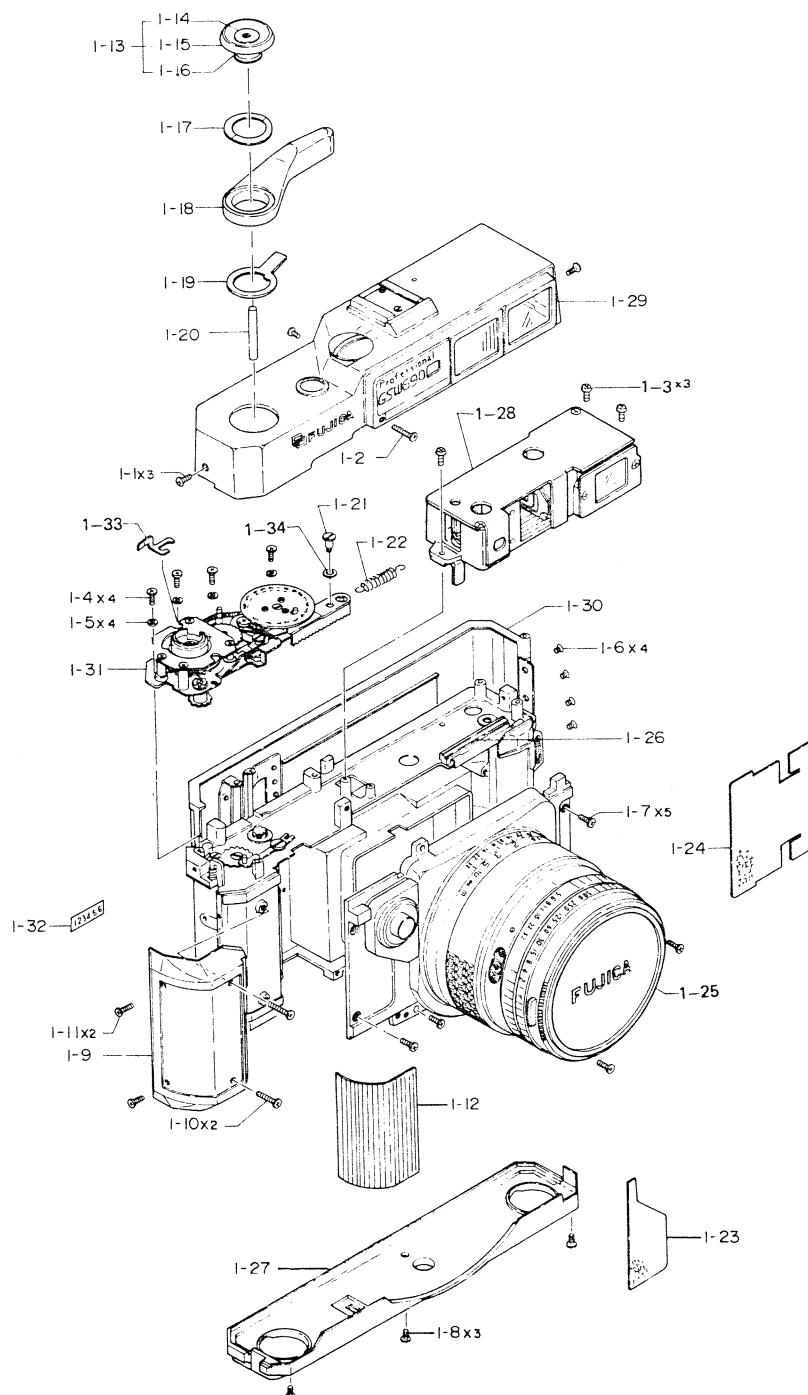
Ref No.	Part No.	Part Name	Q'ty	Remarks
7-119	34B2188350	Gear	1	
7-120	110M200401S	Screw	2	
7-121	17A2188990	Interlock rod assembly 122, 123	1	
7-122	200M24	Steel ball	1	
7-123	17B2188360	Interlock rod	1	
7-124	32B2188370	Gear shaft	1	
7-125	23B402810	Hold ring	1	

V. PARTS LIST (FUJICA GSW690)

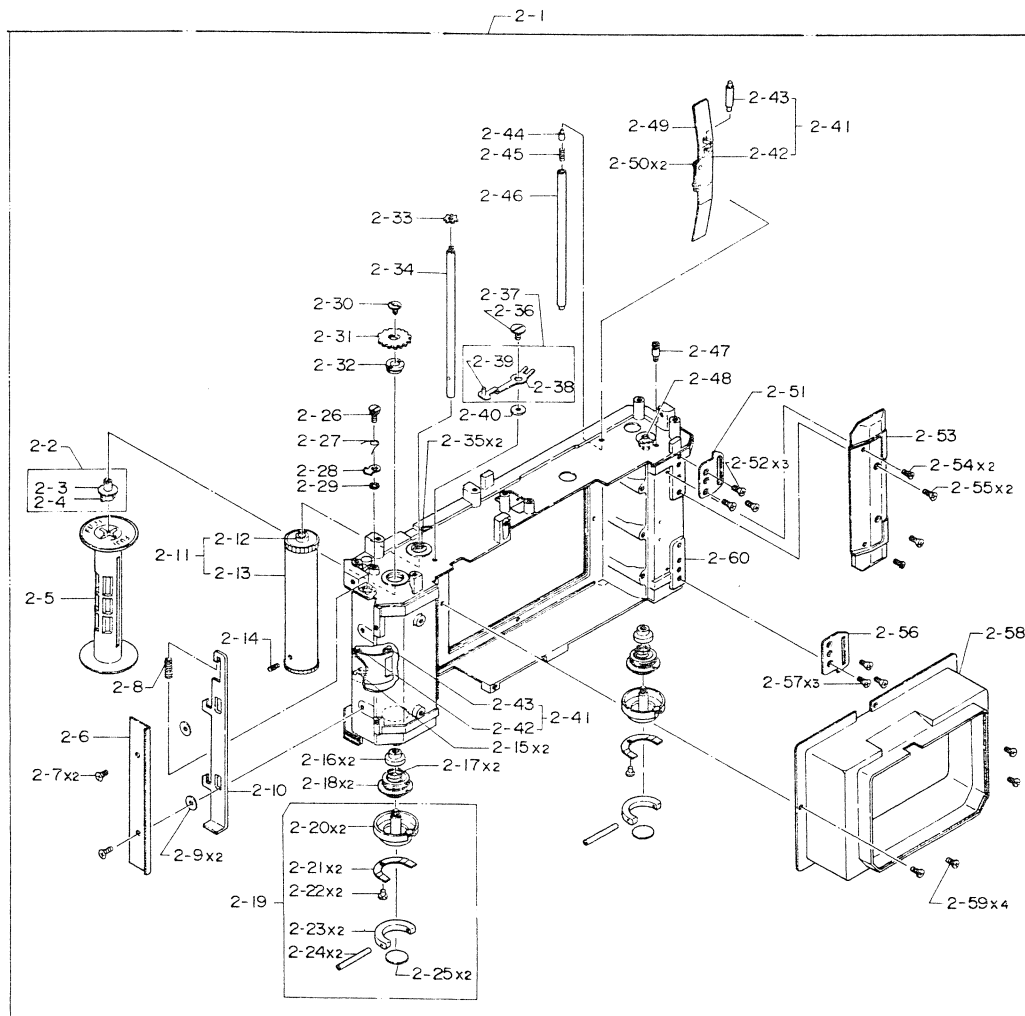


Ref No.	Part No.	Part Name	Q'ty	Remarks
1- 1	53B491260	Screw	3	
1- 2	53B2189020	Screw	1	
1- 3	110M2006035	Screw	3	
1- 4	110M2005035	Screw	4	
1- 5	165M202H	Spring washer	4	
1- 6	11M170251S	Screw	4	
1- 7	110M260603S	Screw	5	
1- 8	53B2189030	Screw	3	
1- 9	41B2190160	Grip	1	
1-10	110M2009035	Screw	2	
1-11	110M2007035	Screw	2	
1-12	59B2190190	Leather	1	
1-13	84A2189500	Top shutter release assembly	14, 15, 16 1	
1-14	16B2189090	Top shutter release	1	
1-15	84B2189080	Holder	1	
1-16	55B29680	Washer	1	
1-17	50B29400	Spring washer	1	
1-18	47B489640	Film advance lever	1	
1-19	85B29390	Stopper	1	
1-20	32B2189010	Shutter release shaft	1	
1-21	53B2189060	Set screw	1	
1-22	50B2191320	Spring	1	
1-23	59B2189040	Leather	1	
1-24	59B2189050	Leather	1	

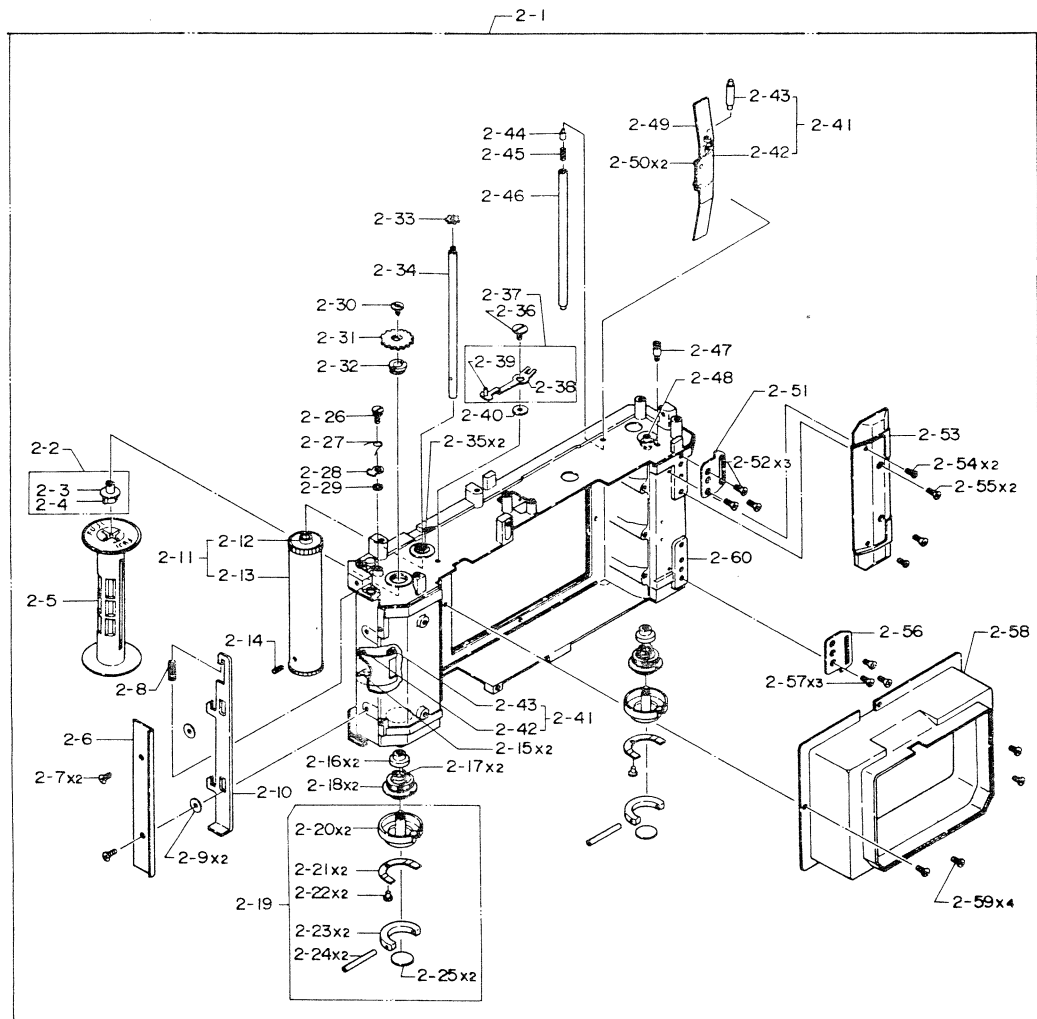
PARTS LIST (FUJICA GSW690)
FUJICA GW690, GSW690



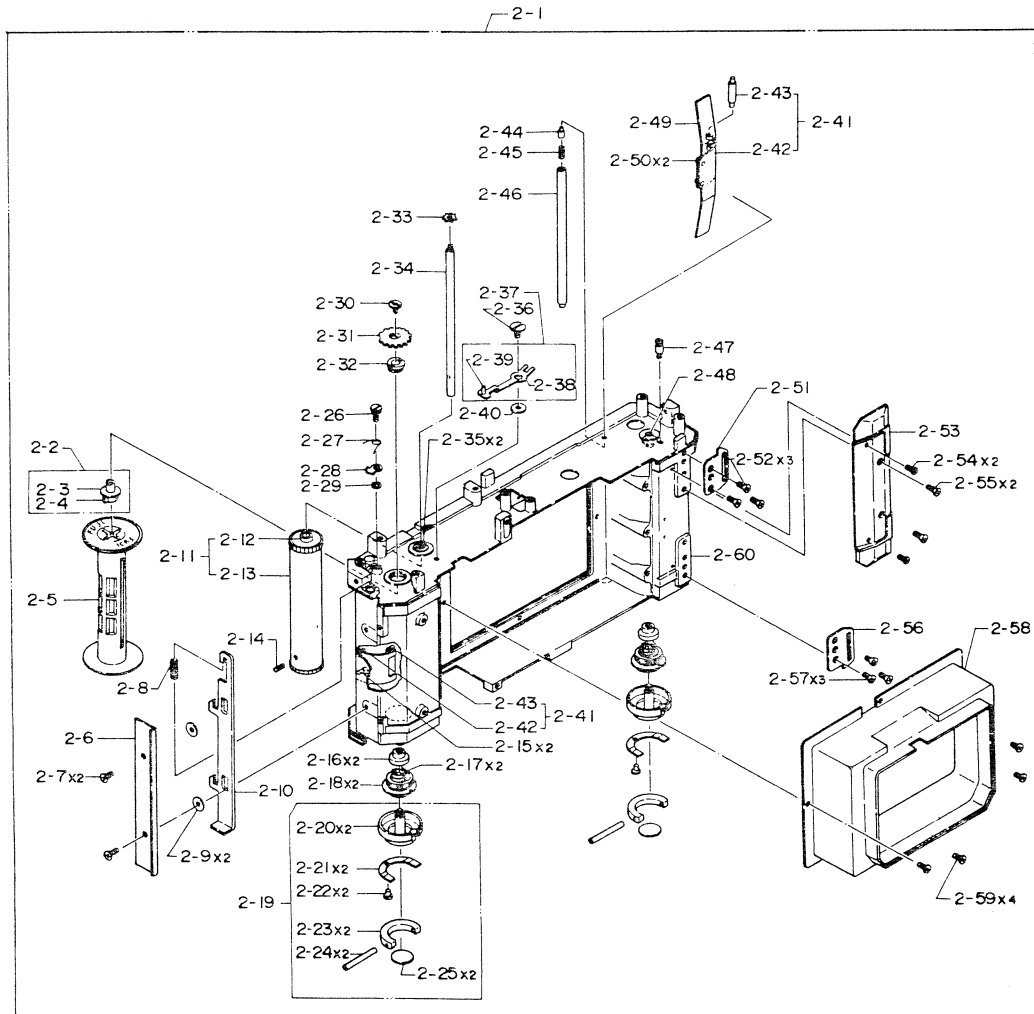
Ref No.	Part No.	Part Name	Q'ty	Remarks
1-25	57A2189920	Lens cap	1	
1-26	81B2192520	Rib	1	
1-27	11B2192660	Bottom cover	1	
1-28	99A51153A00	Range/Viewfinder assembly	1	
1-29	303A2907300	Top cover assembly	1	
1-30	302A2192900	Camera back assembly	1	
1-31	310A2192000	Film take-up mechanism assembly	1	
1-32	58B29520	Number plate	1	
1-33	50B2189100	Click spring	1	
1-34	55B2189110	Washer	0 ~ 1	



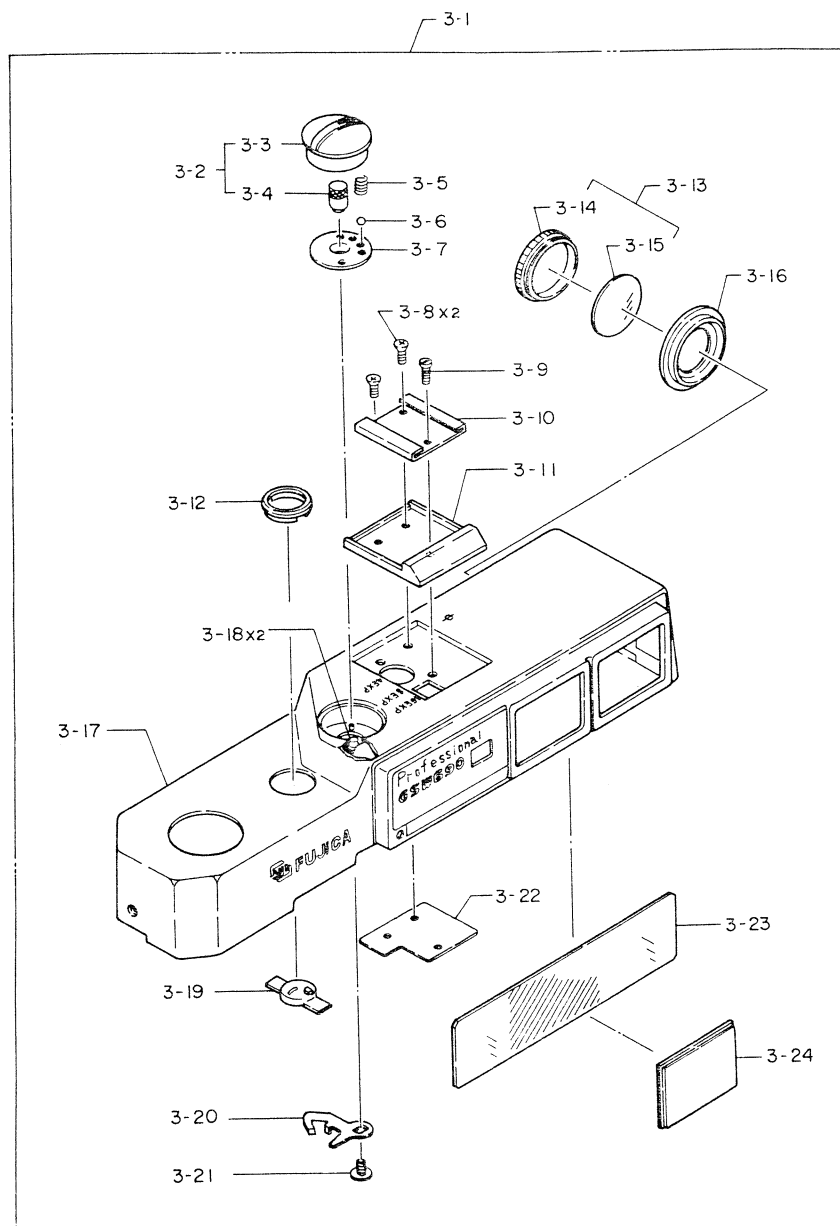
Ref No.	Part No.	Part Name	Q'ty	Remarks
2- 1	301A2190900	Chassis assembly 2, 5, 6, 7, 8, 9, 10, 11, 14, 15, 16, 17, 18, 19, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 40, 41, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60	1	
2- 2	32A720040	Take-up shaft assembly 3, 4	1	
2- 3	32B486840	Take-up shaft	1	
2- 4	85B30040	Take-up claw	1	
2- 5	37B29490	Spool	1	
2- 6	85B486990	Base plate	1	
2- 7	111M170451S	Screw	2	
2- 8	50B30941	Spring	1	
2- 9	30B30950	Hook guide	2	
2-10	45B2190080	Camera back hook	1	
2-11	36A720060	Exposure counter drum 12, 13 assembly	1	
2-12	36B486732	Collar	1	
2-13	36B486724	Exposure counter drum	1	
2-14	120M200503B	Set screw	1	
2-15	170M15020C	Pin	2	
2-16	32B2190060	Take-up spool holder	2	
2-17	50B307711	Spring	2	
2-18	31B30700	Take-up shaft holder	2	
2-19	29A2190940	Take-up spool knob 20, 21, 22, 23, 24, 25 assembly	2	
2-20	29B2190040	Take-up spool knob	2	
2-21	50B920720	Leaf spring	2	
2-22	170M12014N	Pin	2	
2-23	16B855790	Knob	2	
2-24	17B2190050	Shaft	2	



Ref No.	Part No.	Part Name	Q'ty	Remarks
2-25	85B2190070	Cover	2	
2-26	32B30750	Shaft	1	
2-27	50B1070	Spring	1	
2-28	45B1060	Hook	1	
2-29		Washer	1	
2-30	53B30721	Screw	1	
2-31	34B2190101	Take-up gear	1	
2-32	31B30220	Exposure counter drum shaft holder	1	
2-33	34B2190090	Exposure counter drive wheel	1	
2-34	32B486752	Exposure counter drum shaft	1	
2-35	23B2190030	Guide ring	2	
2-36	53B2190150	Screw	1	
2-37	47A2190950	Lock lever assembly 38, 39	1	
2-38	47B2190121	Lock lever	1	
2-39	17B2190130	Lock pin	1	
2-40	55B2190140	Washer	1	
2-41	50A720000	Roller assembly 42, 43	2	
2-42	50B486970	Spring	2	
2-43	37B486980	Roller	2	
2-44	17B30160	Pin	1	
2-45	50B30170	Spring	1	
2-46	30B30150	Guide roller	1	
2-47	53B2190110	Screw	1	
2-48	31B486830	Film feed spool shaft	1	
2-49	50B486960	Pressure spring	1	
2-50	170M15025C	Pin	2	
2-51	41B2190180	Bracket	1	
2-52	111M200503S	Screw	3	
2-53	11B2190200	Cover	1	
2-54	110M170253S	Screw	2	
2-55	111M200503S	Screw	2	
2-56	41B2190170	Bracket	1	

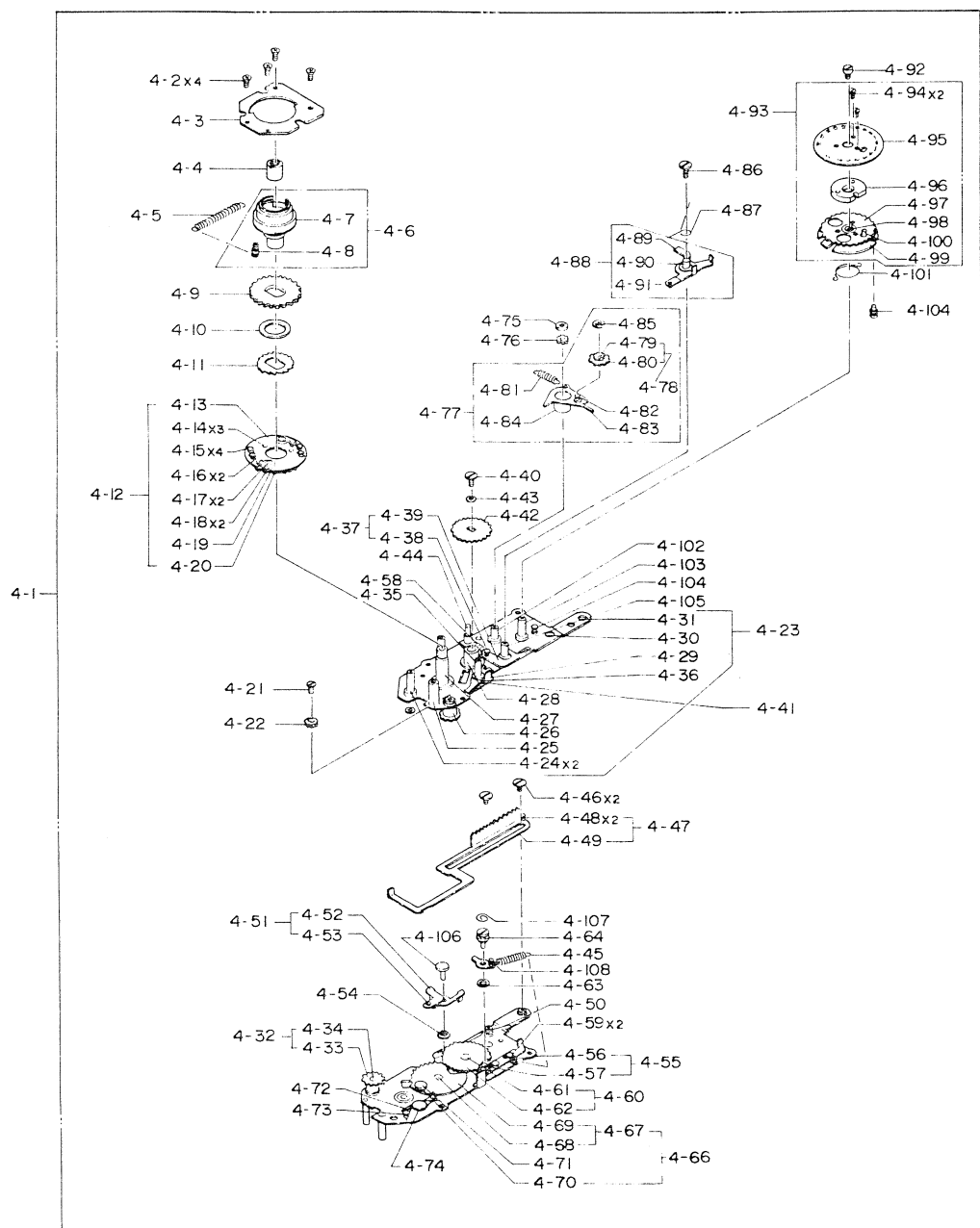


Ref No.	Part No.	Part Name	Q'ty	Remarks
2-57	111M200503S	Screw	3	
2-58	27B2190010	Hood	1	
2-59	110M170353S	Screw	4	
2-60	10B2190000	Chassis	1	



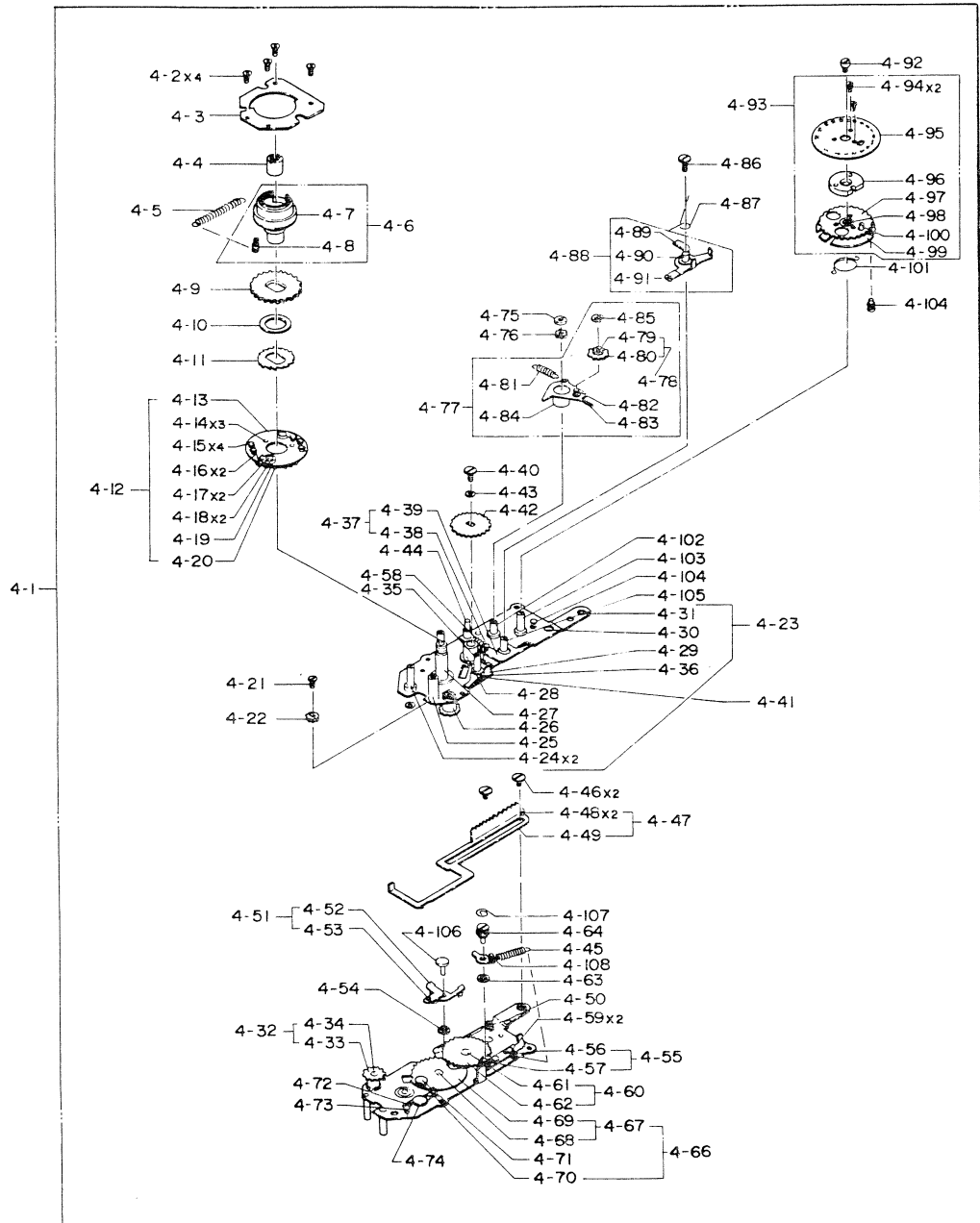
Ref No.	Part No.	Part Name	Q'ty	Remarks
3- 1	303A2907300	Top cover assembly 2, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 17, 18, 19, 20, 21, 22, 23, 24	1	
3- 2	16A2193010	Film selector assembly 3, 4	1	
3- 3	16B2192540	Film selector	1	
3- 4	32B2192530	Shaft	1	
3- 5	50B2192680	Spring	1	
3- 6	200M20	Steel ball	1	
3- 7	29B2192550	Base plate	1	
3- 8	111M170503C	Screw	2	
3- 9	53B2192670	Screw	1	
3-10	41B2192610	Accessory shoe	1	
3-11	41B2192620	Seat plate	1	
3-12	84B2192650	Exposure counter window	1	
3-13	23A102900	Viewfinder eyepiece 14, 15 assembly	1	
3-14	23B95570	Eyecup support ring	1	
3-15	23B95580	Lens	1	
3-16	23B2192580	Eyepiece	1	
3-17	11B2907310	Top cover	1	
3-18	17B2192570	Rivet	2	
3-19	6B2192640	Exposure counter window	1	
3-20	47B2192560	Limit lever	1	
3-21	53B2191310	Screw	1	
3-22	46B2192630	Seat plate	1	
3-23	6B2192590	Window glass	1	
3-24	6B2192600	Viewfinder frame	1	

PARTS LIST (FUJICA GSW690)
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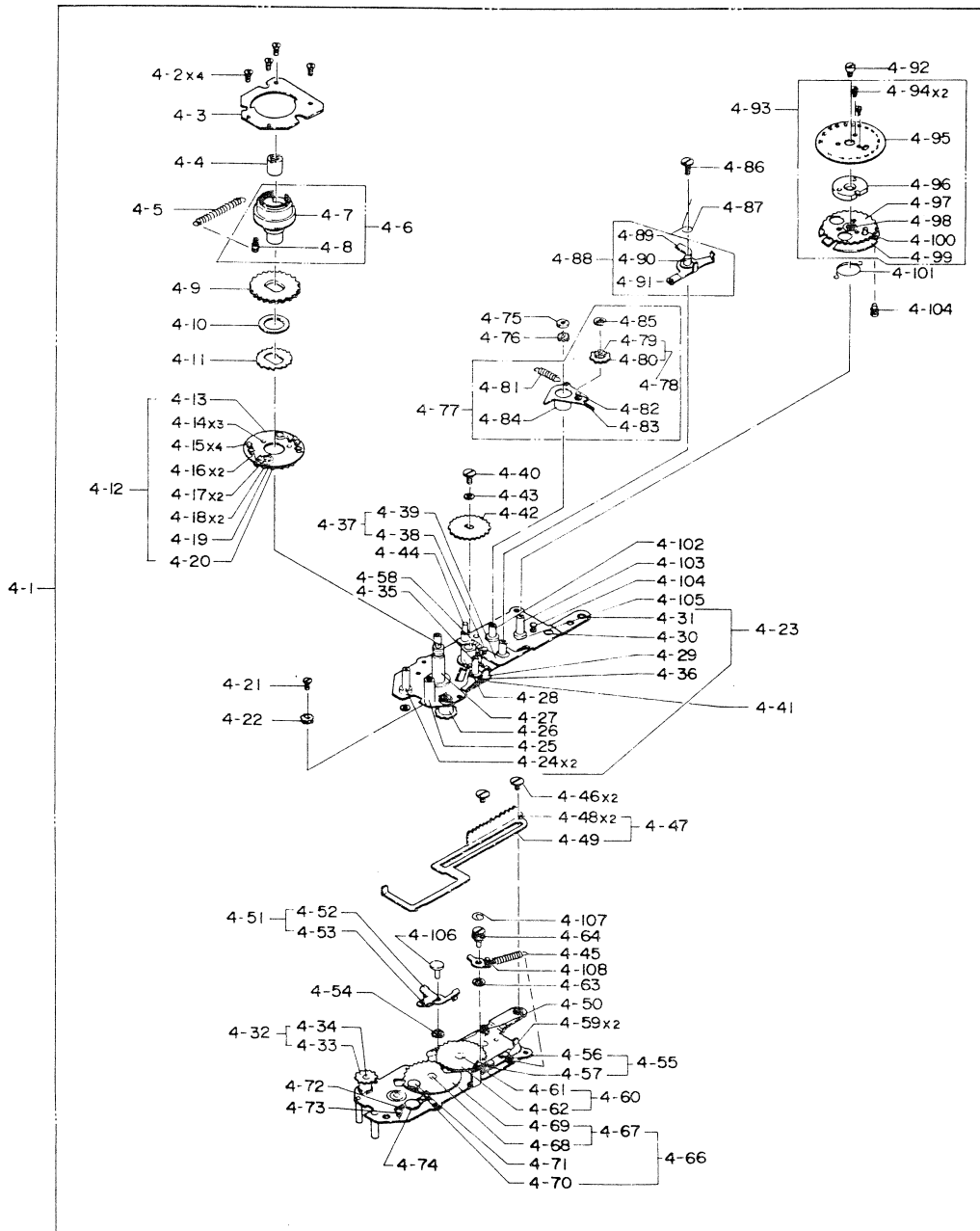


Ref No.	Part No.	Part Name	Q'ty	Remarks
4- 1	310A2192000	Film take-up mechanism 2, 3, 4, 5, 6, 7, 10, 11, assembly 12, 13, 22, 23, 24, 33, 36, 37, 38, 41, 42, 43, 44, 45, 46, 47, 48, 49, 52, 53, 56, 57, 60, 61, 62, 65, 66, 67, 68, 74, 75, 76, 77, 78, 79, 80, 90, 91, 92, 96, 98, 108	4	
4- 2	111M170401S	Screw	4	
4- 3	46B2191090	Base plate	1	
4- 4	54B29361	Nut	1	
4- 5	50B29380	Spring	1	
4- 6	42A2192020	Sleeve assembly 7, 8	1	
4- 7	42B2191010	Sleeve	1	
4- 8	17B29340	Pin	1	
4- 9	34B2191020	Gear	1	
4- 10	55B2191450	Washer	1	
4- 11	34B29350	Ratchet wheel	1	
4- 12	85A719480	Disc assembly 13, 14, 15, 16, 17, 18, 19, 20	1	
4- 13	85B29272	Disc	1	
4- 14	17B489560	Rivet	3	
4- 15	17B29290	Pin	4	
4- 16	50B29310	Spring	2	
4- 17	17B489570	Claw shaft	2	
4- 18	85B489580	Pawl	2	
4- 19	34B489550	Gear	1	
4- 20	34B489541	Pawl wheel	1	
4- 21	53B29190	Screw	1	
4- 22	34B489620	Gear	1	
4- 23	46A2192010	Base plate assembly 24, 25, 26, 27, 28, 29, 30, 31	1	
4- 24	54B29160	Column	2	

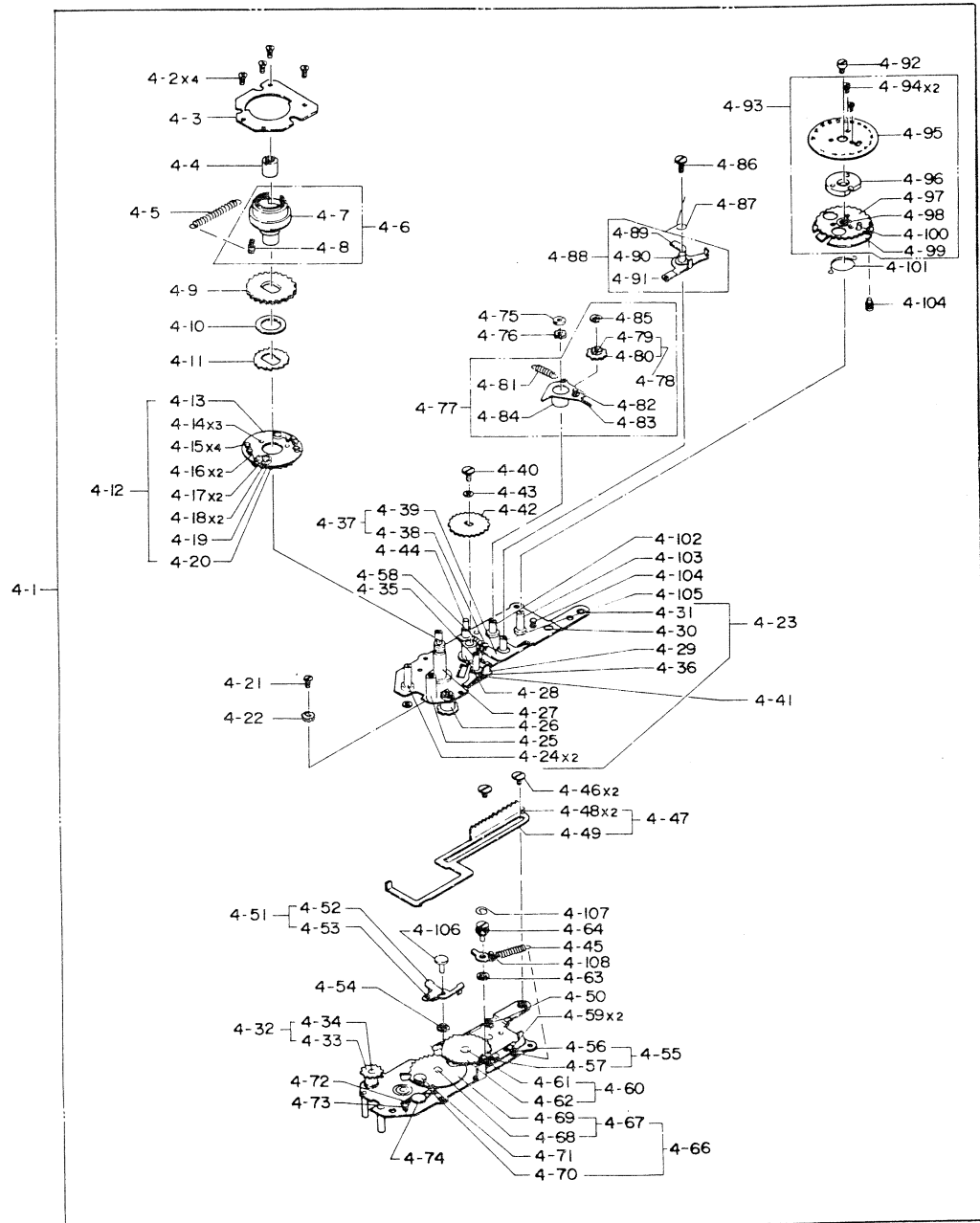
PARTS LIST (FUJICA GSW690)
FUJICA GW690, GSW690



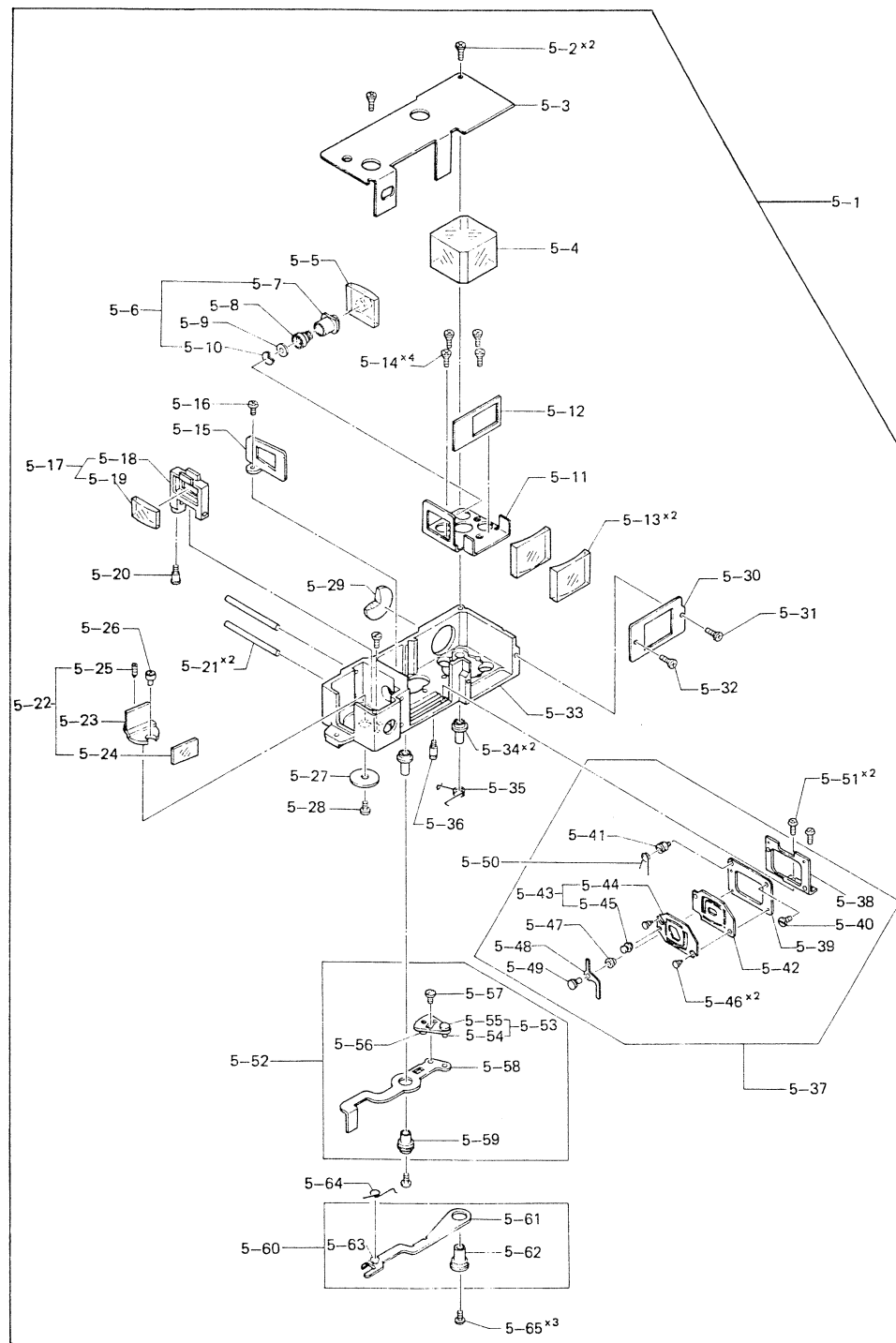
Ref No.	Part No.	Part Name	Q'ty	Remarks
4- 25	54B29090	Column	1	
4- 26	42B489680	Sleeve	1	
4- 27	32B29240	Main shaft	1	
4- 28	31B489591	Sleeve	1	
4- 29	46B2191000	Arm	1	
4- 30	32B2191301	Shaft	1	
4- 31	32B2191291	Shaft	1	
4- 32	34A2192050	Gear assembly 33, 34	1	
4- 33	34B2191070	Gear	1	
4- 34	32B489611	Gear	1	
4- 35	54B29440	Column	1	
4- 36	45B29482	Pawl	1	
4- 37	47A2192140	Return lever assembly 38, 39	1	
4- 38	17B2191400	Pin	1	
4- 39	47B2191380	Return lever	1	
4- 40	53B29220	Screw	1	
4- 41	55B29230	Washer	1	
4- 42	34B2191080	Gear	1	
4- 43	165M232H	Washer	1	
4- 44	17B2191410	Guide shaft	1	
4- 45	50B29870	Spring	1	
4- 46	53B2191310	Screw	2	
4- 47	34A2192110	Rack assembly 48, 49	1	
4- 48	17B28910	Pin	2	
4- 49	34B2191280	Rack	1	
4- 50	50B2191440	Spring	1	
4- 51	47A2192150	Lock lever assembly 53, 54	1	
4- 52	47B2191420	Lock lever	1	
4- 53	17B28830	Interlock pin	1	
4- 54	32B28871	Rotary base	1	
4- 55	47A2192130	Lever assembly 56, 57	1	
4- 56	47B2191361	Lever	1	



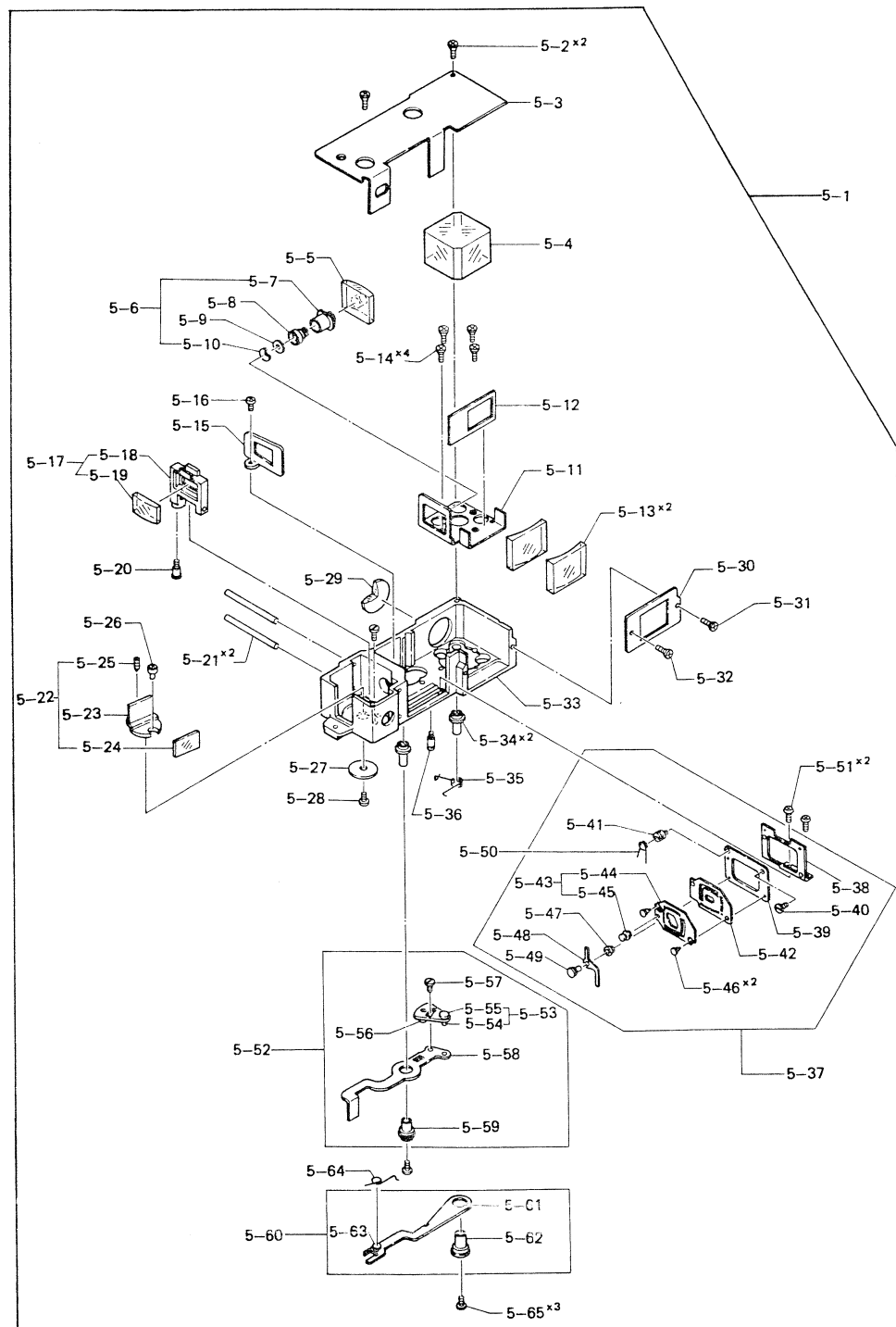
Ref No.	Part No.	Part Name	Q'ty	Remarks
4- 57	17B29050	Interlock pin	1	
4- 58	50B2191390	Spring	1	
4- 59	17B2191370	Guide pin	2	
4- 60	34A2192090	Gear assembly 61, 62	1	
4- 61	34B2191230	Gear	1	
4- 62	32B2191220	Gear shaft	1	
4- 63	55B2191141	Washer	1	
4- 64	17B2191152	Shaft	1	
4- 65	47B2191130	Ratchet pawl	1	
4- 66	34A2192040	Ratchet wheel assembly 67, 71, 72	1	
4- 67	34A2192030	Ratchet wheel assembly 68, 69	1	
4- 68	32B2191040	Shaft	1	
4- 69	34B2191030	Ratchet wheel	1	
4- 70	30B2191060	Roller	1	
4- 71	32B2191050	Shaft	1	
4- 72	47B2191112	Hook	1	
4- 73	50B2191121	Spring	1	
4- 74	17B2191101	Shaft	1	
4- 75	54B494060	Nut	1	
4- 76	34B494050	Gear	1	
4- 77	85A2192080	Rotary plate assembly 78, 81, 82, 83, 84, 85	1	
4- 78	34A2192070	Gear assembly 79, 80	1	
4- 79	34B2191190	Gear	1	
4- 80	34B2191200	Gear	1	
4- 81	50B494110	Spring	1	
4- 82	32B2191180	Gear shaft	1	
4- 83	85B2191160	Rotary plate	1	
4- 84	29B2191170	Rotary barrel	1	
4- 85	191M012T	E-clip	1	
4- 86	53B2191470	Screw	1	
4- 87	50B2191460	Spring	1	
4- 88	47A2192120	Lever assembly 89, 90, 91	1	



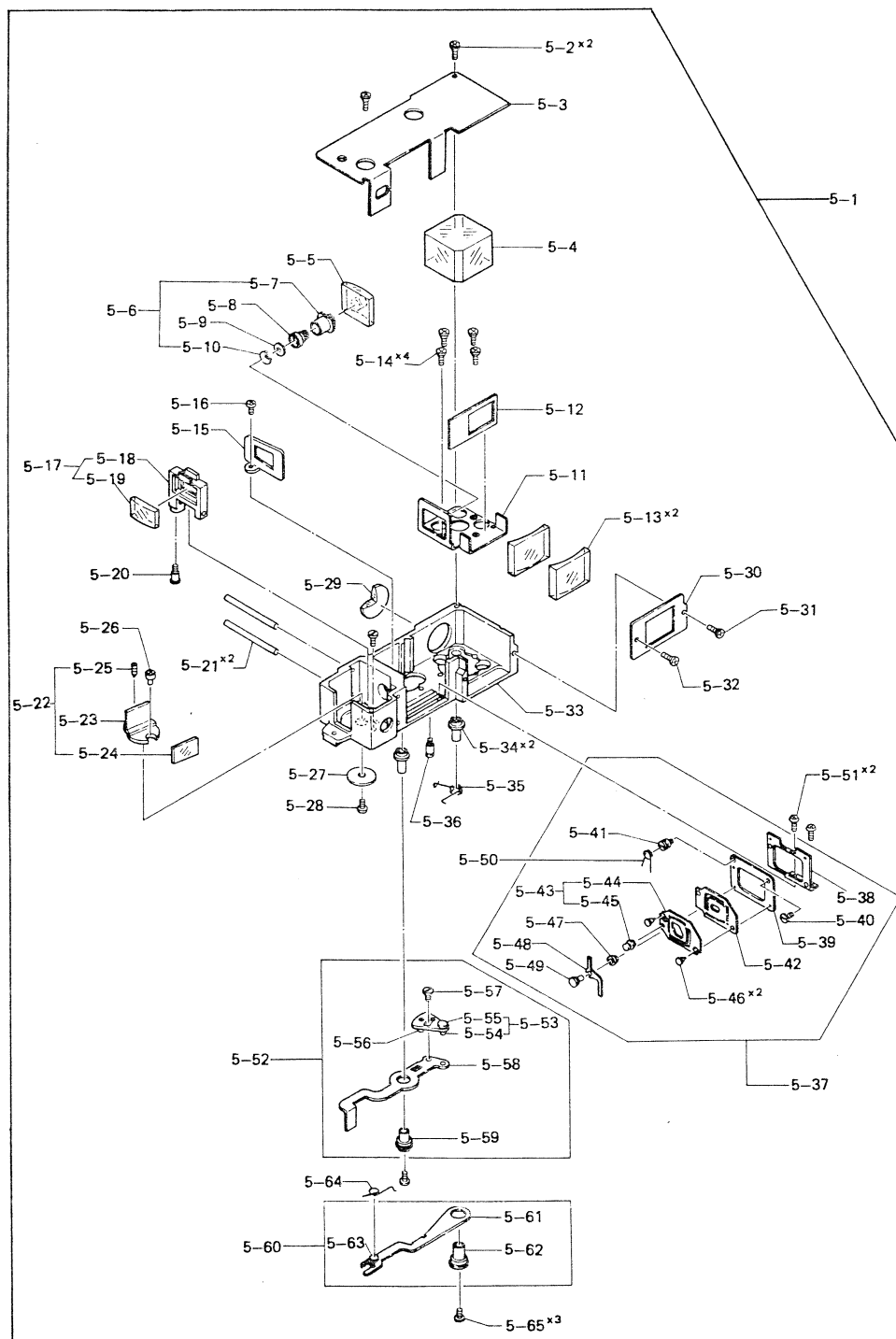
Ref No.	Part No.	Part Name	Q'ty	Remarks
4- 89	47B2191350	Lever	1	
4- 90	42B2191340	Bushing	1	
4- 91	17B28830	Interlock pin	1	
4- 92	53B28730	Screw	1	
4- 93	34A2192100	Dial assembly 94, 95, 96, 97, 98, 99, 100	1	
4- 94	53B721100	Screw	2	
4- 95	58B494193	Dial	1	
4- 96	24B494181	Spacer	1	
4- 97	34B494170	Counter gear	1	
4- 98	29B2191250	Sleeve	1	
4- 99	34B494140	Disc	1	
4-100	17B2191260	Connecting pin	1	
4-101	50B28720	Spring	1	
4-102	29B2191210	Shaft holder	1	
4-103	32B2191240	Shaft	1	
4-104	17B2191270	Stopper pin	2	
4-105	32B2191330	Lever shaft	1	
4-106	17B2191430	Lever shaft	1	
4-107	50B2191490	Spring	1	
4-108	17B2191480	Lever	1	
4-109	111M140501S	Screw	1	



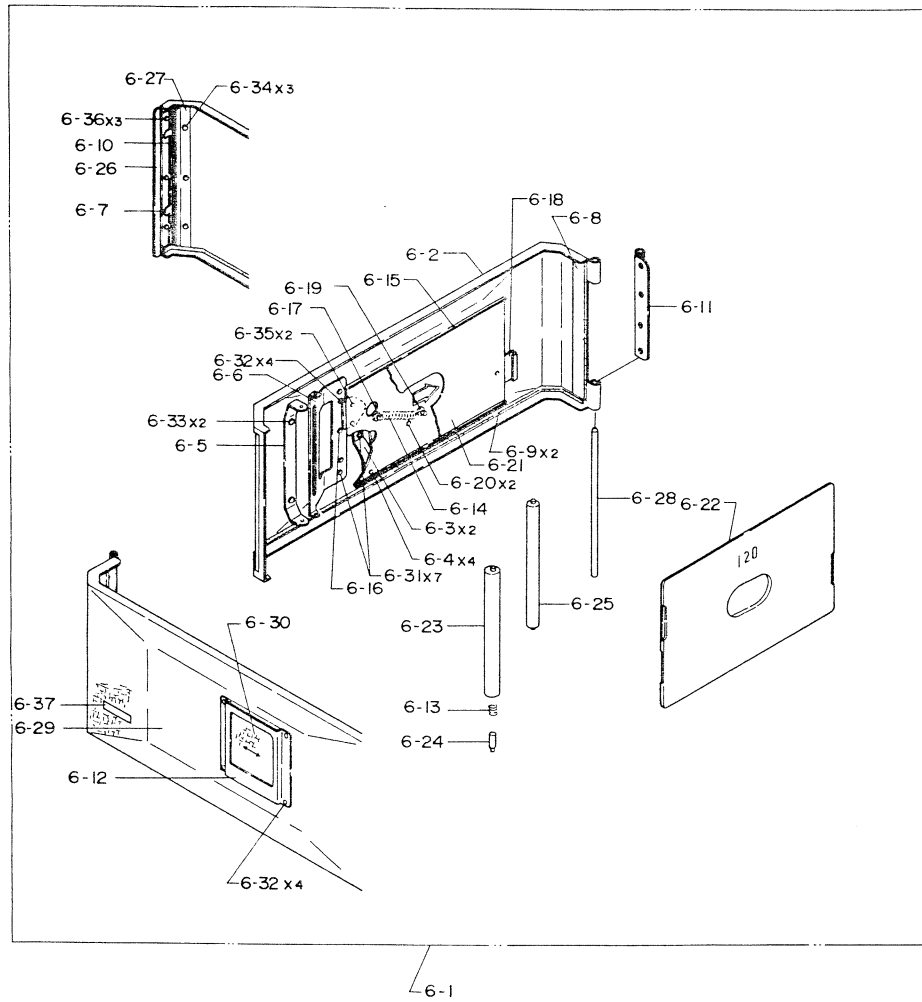
Ref No.	Part No.	Part Name	Q'ty	Remarks
5- 1	99A51153A00	Range/Viewfinder 2, 3, 4, 5, 6, 11, 12, 13, 14, assembly (SR27A) 15, 16, 17, 20, 21, 22, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 50, 51, 52, 60, 64, 65	1	
5- 2	110M170251S	Screw	2	
5- 3	11B2906950	Cover	1	
5- 4	2A2886990	Plism (G2 + G3)	1	
5- 5	1B2887040	Lens (G5)	1	
5- 6	21A2906700	Lens holder assembly 7, 8, 9, 10	1	
5- 7	21B2906960	Lens holder	1	
5- 8	21B2906790	Lens frame	1	
5- 9	55B2906990	Washer	1	
5-10	1B2887050	Lens (G6)	1	
5-11	85B2906820	Base plate	1	
5-12	11B2906980	Mask	1	
5-13	1B2887000	Lens (G1)	2	
5-14	111M170301S	Screw	4	
5-15	3B2906970	Reflector	1	
5-16	110M170301S	Screw	1	
5-17	21A2193710	Moving frame assembly 18, 19	1	
5-18	21B2193340	Moving frame	1	
5-19	1B2167110	Lens	1	
5-20	17B2193350	Pin	1	
5-21	30B2193360	Guide rail	2	
5-22	10A2193720	Mirror base assembly 23, 24, 25	1	
5-23	10B2193240	Mirror base	1	
5-24	3B2167120	Reflector	1	
5-25	53B32460	Adjust screw	1	
5-26	17B32471	Eccentric pin	1	
5-27	50B32480	Leaf spring	1	
5-28	53B32490	Screw	1	



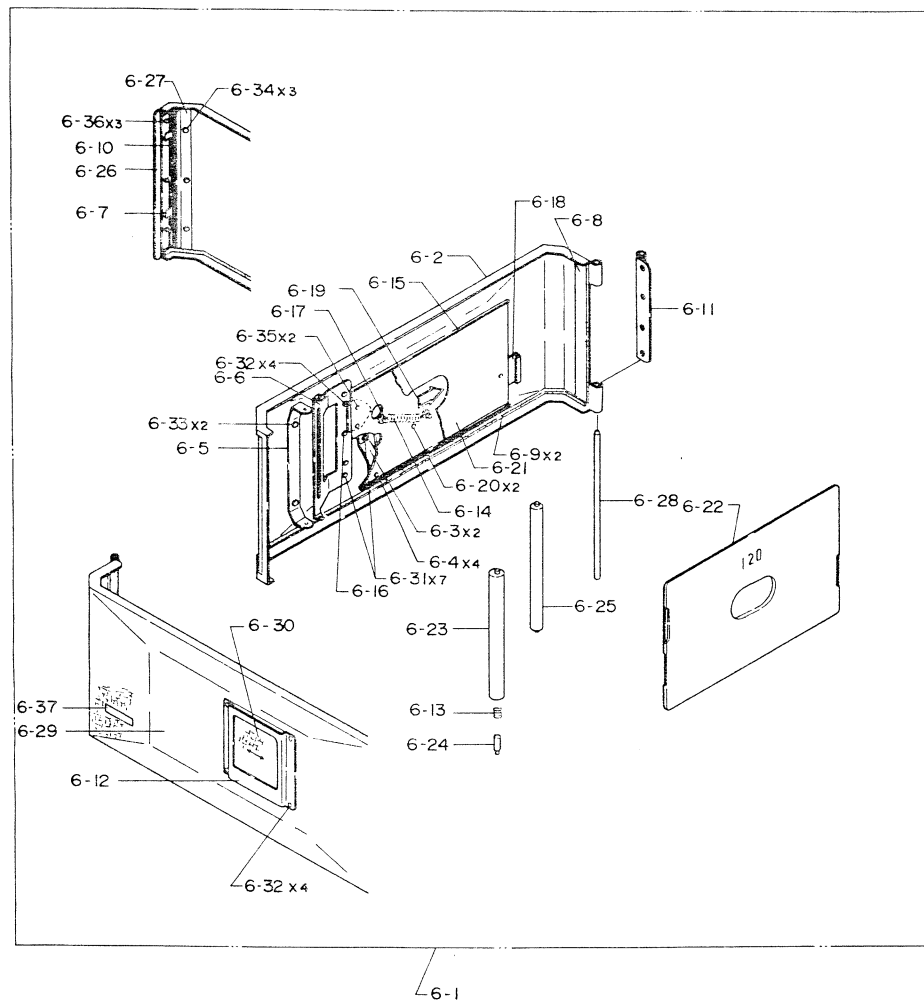
Ref No.	Part No.	Part Name	Q'ty	Remarks
5-29	1B2887030	Lens (G4)	1	
5-30	11B2906810	Mask	1	
5-31	111M170251S	Screw	1	
5-32	111M140253S	Screw	1	
5-33	10B2906800	Viewfinder case	1	
5-34	32B32590	Shaft	2	
5-35	50B219330	Spring	1	
5-36	17B2193260	Pin	1	
5-37	41A2906740	Viewfinder frame 38, 39, 40, 41, 42, 43, 46, 47, 48, 49	1	
5-38	41B2906880	Base plate	1	
5-39	29B2906850	Plate	1	
5-40	53B2193440	Screw	1	
5-41	53B2906930	Screw	1	
5-42	5B2906860	Stationary viewfinder frame	1	
5-43	5A2906730	Stationary viewfinder 44, 45 frame assembly	1	
5-44	5B2906870	Moving viewfinder frame	1	
5-45	17B2906920	Pin	1	
5-46	17B2193400	Guide pin	2	
5-47	42B2906910	Collar	1	
5-48	47B2906890	Interlock lever	1	
5-49	17B2906900	Pin	1	
5-50	50B2906940	Spring	1	
5-51	110M170301S	Screw	2	
5-52	47A2906720	Linkage assembly I 53, 56, 57, 58, 59	1	
5-53	47A2193760	Adjust lever assembly 54, 55	1	
5-54	47B2193290	Adjust lever	1	
5-55	17B32740	Pin	1	
5-56	32B32760	Shaft	1	
5-57	53B32770	Screw	1	
5-58	47B2906830	Linkage I	1	



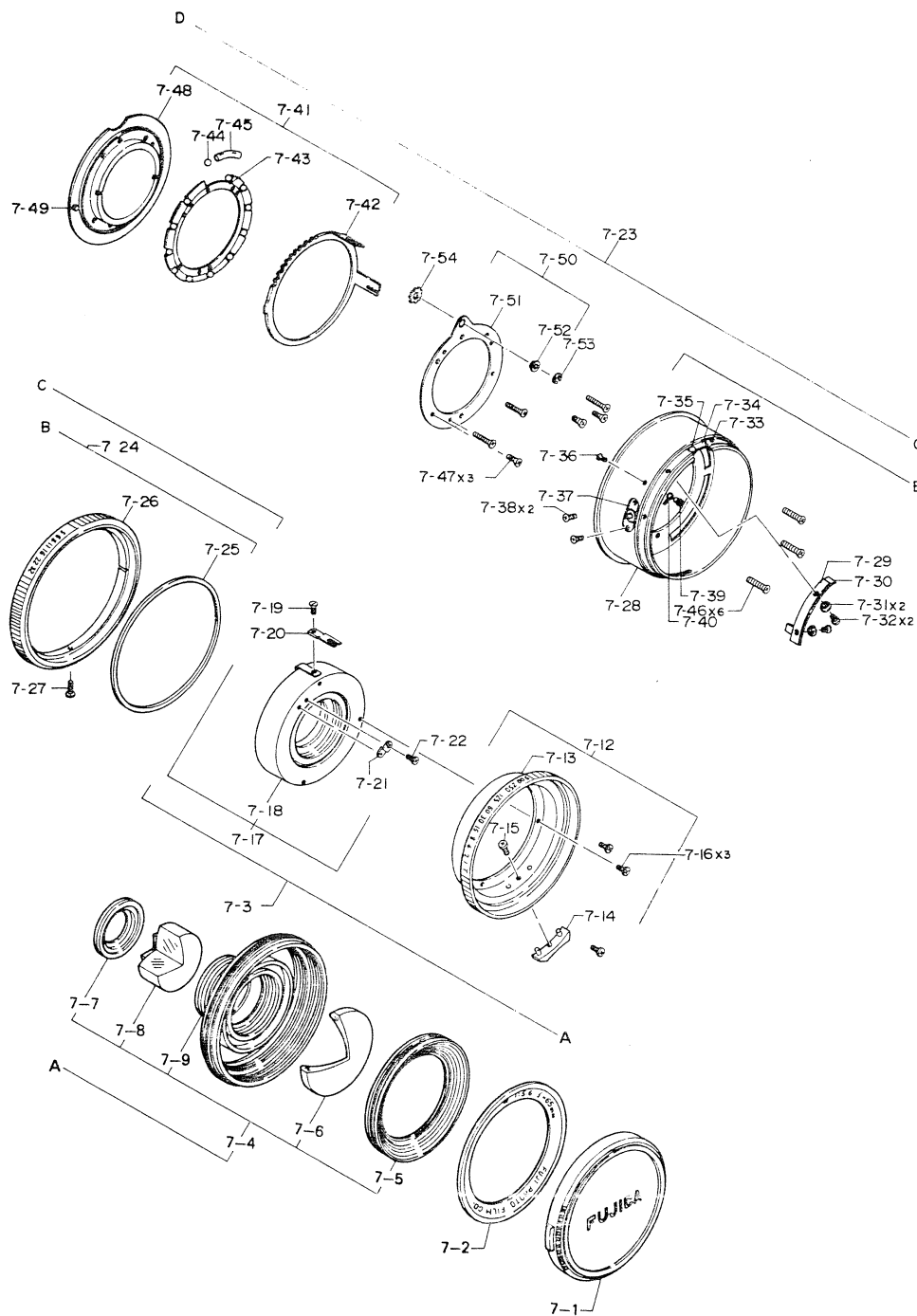
Ref No.	Part No.	Part Name	Q'ty	Remarks
5-59	42B2193280	Bushing	1	
5-60	47A2906710	Linkage assembly II 61, 62, 63	1	
5-61	47B2906840	Linkage II	1	
5-62	42B2193320	Bushing	1	
5-63	17B29290	Pin	1	
5-64	50B2193470	Spring	1	
5-65	53B32580	Screw	3	



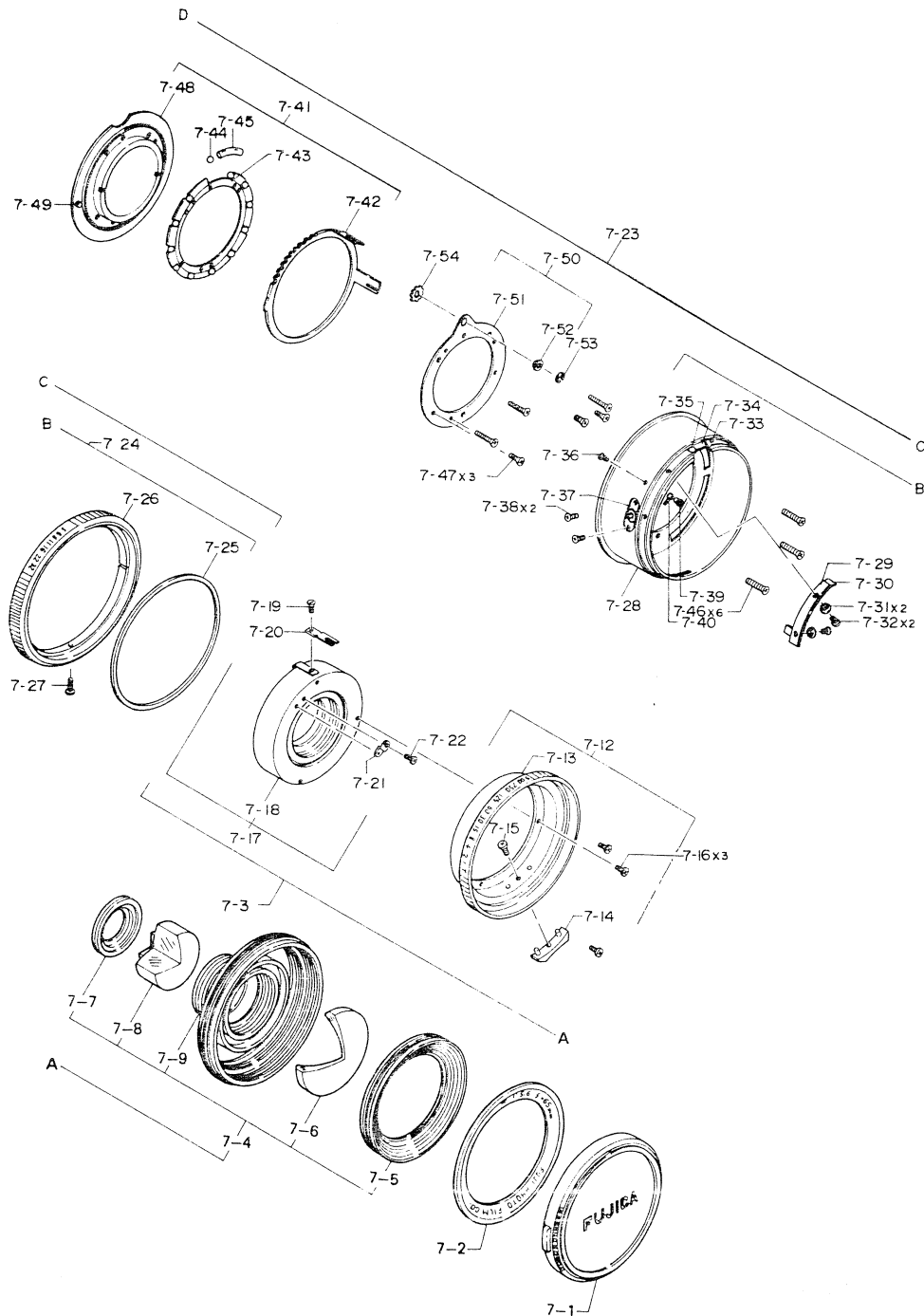
Ref No.	Part No.	Part Name	Q'ty	Remarks
6- 1	302A2192900	Camera back assembly 1, 2, 3, 4, 5, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36	1	
6- 2	11B31654	Camera back	1	
6- 3	50B31660	Spring	2	
6- 4	17B31700	Rivet	4	
6- 5	85B31710	Roller support	1	
6- 6	50B31730	Leaf spring	1	
6- 7	45B31760	Hook	1	
6- 8	27B31780	Moquette (I)	1	
6- 9	27B31790	Moquette (II)	2	
6-10	27B32000	Moquette (III)	1	
6-11	19B32020	Hinge	1	
6-12	32B32040	Pocket	1	
6-13	50B30170	Spring	1	
6-14	50B94640	Spring	1	
6-15	11B492530	Pressure plate holder	1	
6-16	44B492540	Stationary plate	1	
6-17	17B492550	Pin	1	
6-18	44B492560	Moving plate	1	
6-19	17B492570	Pin	1	
6-20	17B492580	Guide rivet	2	
6-21	51B492600	Velveteen	1	
6-22	44B492610	Pressure plate	1	
6-23	37B492630	Roller	1	
6-24	17B492640	Moving pin	1	
6-25	37B492660	Roller	1	
6-26	27B492672	Cover plate	1	
6-27	27B492680	Light shielding plate	1	
6-28	32B32031	Hinge shaft	1	



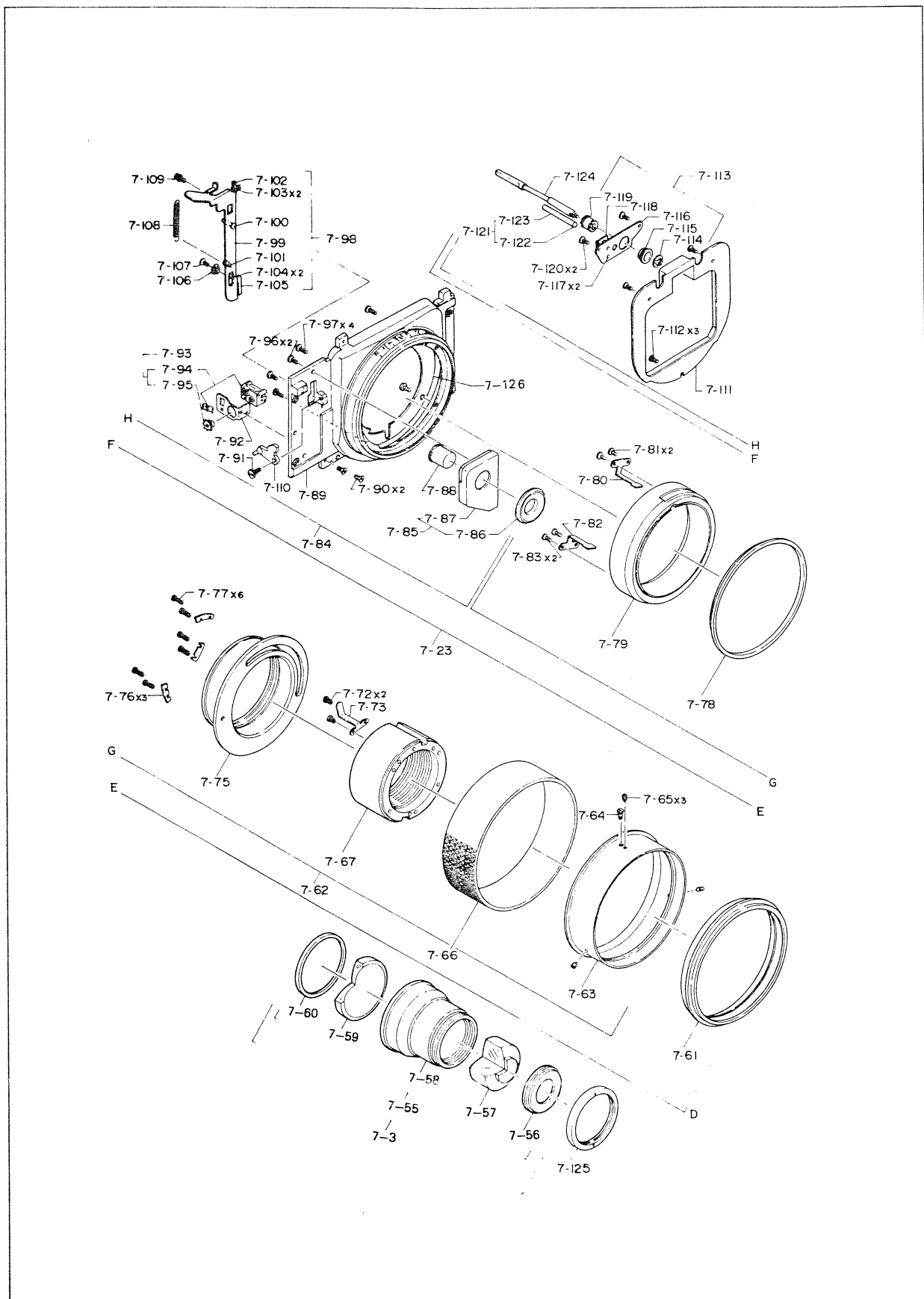
Ref No.	Part No.	Part Name	Q'ty	Remarks
6-29	59B2192910	Leather	1	
6-30	59B2192920	Leather	1	
6-31	170M15014B	Pin	7	
6-32	170M15016B	Pin	4	
6-33	170M15022B	Pin	2	
6-34	170M15028B	Pin	3	
6-35	170M200016B	Pin	2	
6-36	170M15022B	Pin	3	
6-37	58B29520	Number plate	1	



Ref No.	Part No.	Part Name	Q'ty	Remarks
7- 1	57A2189920	Lens cap	1	
7- 2	23B2907360	Name ring	1	
7- 3	38A2907000	Shutter assembly (II) 4, 17, 55	1	
7- 4	21A2907010	Front lens assembly 5, 6, 7, 8, 9	1	
7- 5	23B2907060	Hold ring	1	
7- 6	1B2900600	Lens (G1)	1	
7- 7	23B2907050	Hold ring	1	
7- 8	1A2900580	Lens (G2 + G3)	1	
7- 9	21B2907040	Front lens frame	1	
7- 12	23A2188941	Shutter speed selector 13, 14, 15 ring assembly	1	
7- 13	23B2188631	Shutter speed selector ring	1	
7- 14	16B2188790	Knob	1	
7- 15	111M200401S	Screw	1	
7- 16	110M170303S	Screw	3	
7- 17	38A2907030	Shutter assembly (I) 18, 19, 20, 21, 22	1	
7- 18	38B2907090	0# Shutter	1	
7- 19	101M120143N	Screw	1	
7- 20	47B1349040	Aperture lever	1	
7- 21	109B35870	Contact	1	
7- 22	110M140121N	Screw	1	
7- 23	324A2907100	Lens barrel assembly 24, 41, 47, 49, 50, 53, 54, 61, 62, 66, 84, 90, 92, 93, 96, 97, 121	1	
7- 24	23A2907130	Index ring assembly 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39	1	
7- 25	23B2188620	Hold ring	1	
7- 26	23B2907260	Aperture selector ring	1	
7- 27	53B2188610	Screw	1	

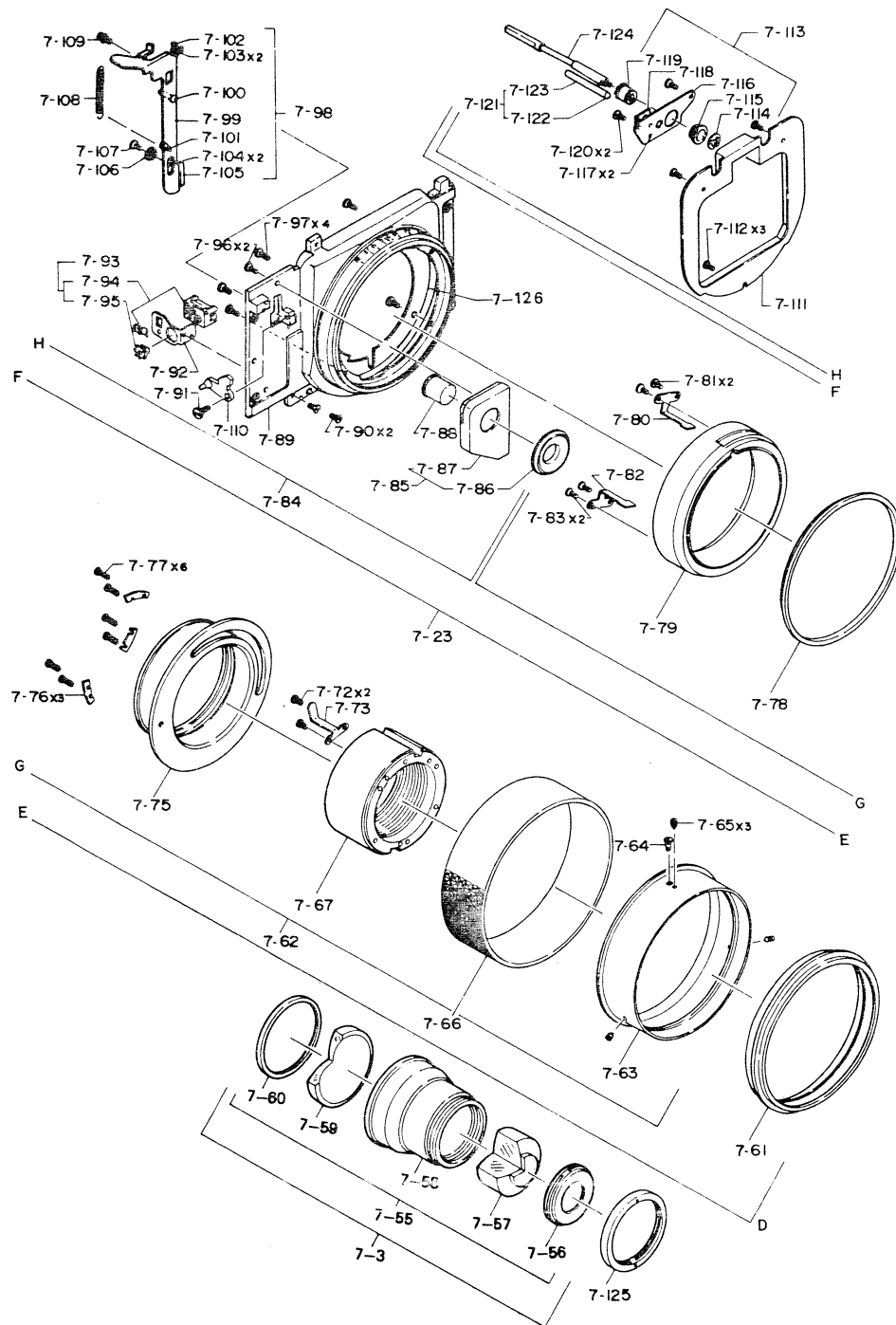


Ref No.	Part No.	Part Name	Q'ty	Remarks
7- 28	23B2907250	Index ring	1	
7- 29	108B2188570	Insulation plate	1	
7- 30	108B2188580	Contact palte	1	
7- 31	42B446620	Insulation collar	2	
7- 32	110M170283S	Screw	2	
7- 33	170M15018F	Rivet	1	
7- 34	50B2188550	Leaf spring	1	
7- 35	200M20	Steel ball	1	
7- 36	53B2188590	Screw	1	
7- 37	112A448050	Sync socket assembly	1	
7- 38	111M170351N	Screw	2	
7- 39	110M200253N	Screw	1	
7- 40	111B385490	Lug	1	
7- 41	23A2188910	Shutter frame assembly 42, 43, 44, 45, 48, 49	1	
7- 42	34B2188520	Set plate	1	
7- 43	23B2188740	Ring	1	
7- 44	200M20	Steel ball	12 ~	
7- 45	24B2188510	Spacer	12 ~	
7- 46	111M200901S	Screw	6	
7- 47	111M170451S	Screw	3	
7- 48	23B2188490	Shutter frame	1	
7- 49	17B2188500	Stopper pin	1	
7- 50	47A2188920	Holder assembly 51, 52	1	
7- 51	47B2188530	Holder	1	
7- 52	42B99361	Shaft holder	1	
7- 53	191M12	E-clip	1	
7- 54	34B2188380	Gear	1	
7- 55	21A2907020	Rear lens assembly 56, 57, 58, 59, 60	1	
7- 56	23B2907050	Hold ring	1	
7- 57	1A2900590	Lens (G4 + G5)	1	
7- 58	21B2907070	Rear lens frame	1	
7- 59	1B2900650	Lens (G6)	1	

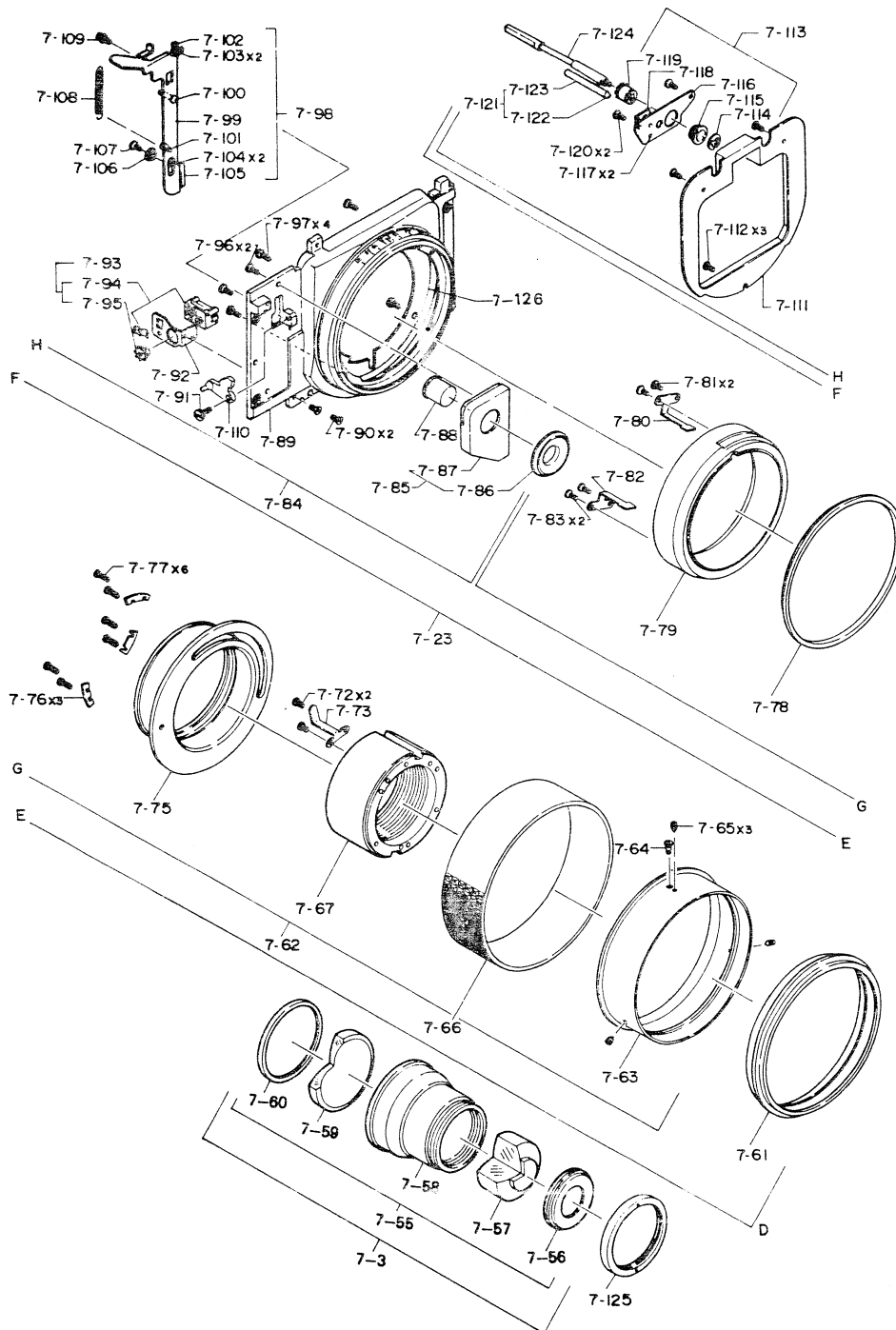


Ref No.	Part No.	Part Name	Q'ty	Remarks
7- 60	23B2907080	Hold ring	1	
7- 61	23B2188660	Focusing ring (II)	1	
7- 62	21A2907120	Helicoid assembly 63, 64, 65, 67, 68, 75, 76, 77, 78, 79, 80, 81, 82, 83	1	
7- 63	23B2907240	Focusing ring (I)	1	
7- 64	53B2188810	Screw	1	
7- 65	120M200301S	Set screw	3	
7- 66	59B2188690	Knurled ring	1	
7- 67	21B2907230	Male helicoid	1	
7- 72	110M140351S	Screw	2	
7- 73	47B2188670	Interlock plate	1	
7- 75	23B2907220	Helicoid ring	1	
7- 76	47B2188450	Thrust plate	3	
7- 77	17B2188460	Set screw	6	
7- 78	23B2188420	Ring	1	
7- 79	23B2907210	Hold ring	1	
7- 80	30B2188470	Helicoid guide (I)	1	
7- 81	111M200503S	Screw	2	
7- 82	30B2188480	Helicoid guide (II)	1	
7- 83	110M200503S	Screw	2	
7- 84	46A2907110	Front mask assembly 85, 88, 89, 90, 91, 93, 98, 106, 107, 108, 109, 110, 111, 112, 113, 120, 124	1	
7- 85	12A2188890	Cover assembly 86, 87	1	
7- 86	84B2188180	Front shutter release ring	1	
7- 87	12B2188170	Cover	1	
7- 88	16B2188200	Front shutter release	1	

PARTS LIST (FUJICA GSW690)
FUJICA GW690, GSW690



Ref No.	Part No.	Part Name	Q'ty	Remarks
7- 89	46B2907200	Front mask	1	
7- 90	111M170351S	Screw	2	
7- 91	32B2188220	Shaft	1	
7- 92	41B2188760	Angle	1	
7- 93	322A2188980	Shutter actuation counter assembly 94, 95	1	
7- 94	322A2188980	Shutter actuation counter	1	
7- 95	34B2188770	Ratchet wheel	1	
7- 96	110M200601S	Screw	2	
7- 97	110M260603S	Screw	4	
7- 98	47A2188871	Release lever assembly 99, 100, 101, 102, 103, 104, 105	1	
7- 99	47B2188260	Release lever	1	
7-100	17B2188270	Pin	1	
7-101	17B2188280	Pin	1	
7-102	85B2188830	Lever	1	
7-103	170M12020F	Rivet	2	
7-104	170M12018F	Rivet	2	
7-105	45B2188751	Claw	1	
7-106	32B488080	Guide shaft	1	
7-107	110M200401S	Screw	1	
7-108	50B2188301	Spring	1	
7-109	32B2188290	Guide shaft	1	
7-110	47B2188210	Lever	1	
7-111	27B2188680	Light shielding mask	1	
7-112	110M170301S	Screw	3	
7-113	46A2188880	Positioning plate assembly 114, 115, 116, 117, 118	1	
7-114	191M50T	E-clip	1	
7-115	32B2188340	Bushing	1	
7-116	46B2188310	Positioning plate	1	
7-117	170M15025F	Rivet	2	
7-118	46B2188320	Shaft holding plate	1	



Ref No.	Part No.	Part Name	Q'ty	Remarks
7-119	34B2188350	Gear	1	
7-120	110M200401S	Screw	2	
7-121	17A2188990	Interlock rod assembly 122, 123	1	
7-122	200M24	Steel ball	1	
7-123	17B2188360	Interlock rod	1	
7-124	32B2188370	Gear shaft	1	
7-125	23B402810	Hold ring	1	
7-126	12B2907270	Cover plate	1	

CONTENTS

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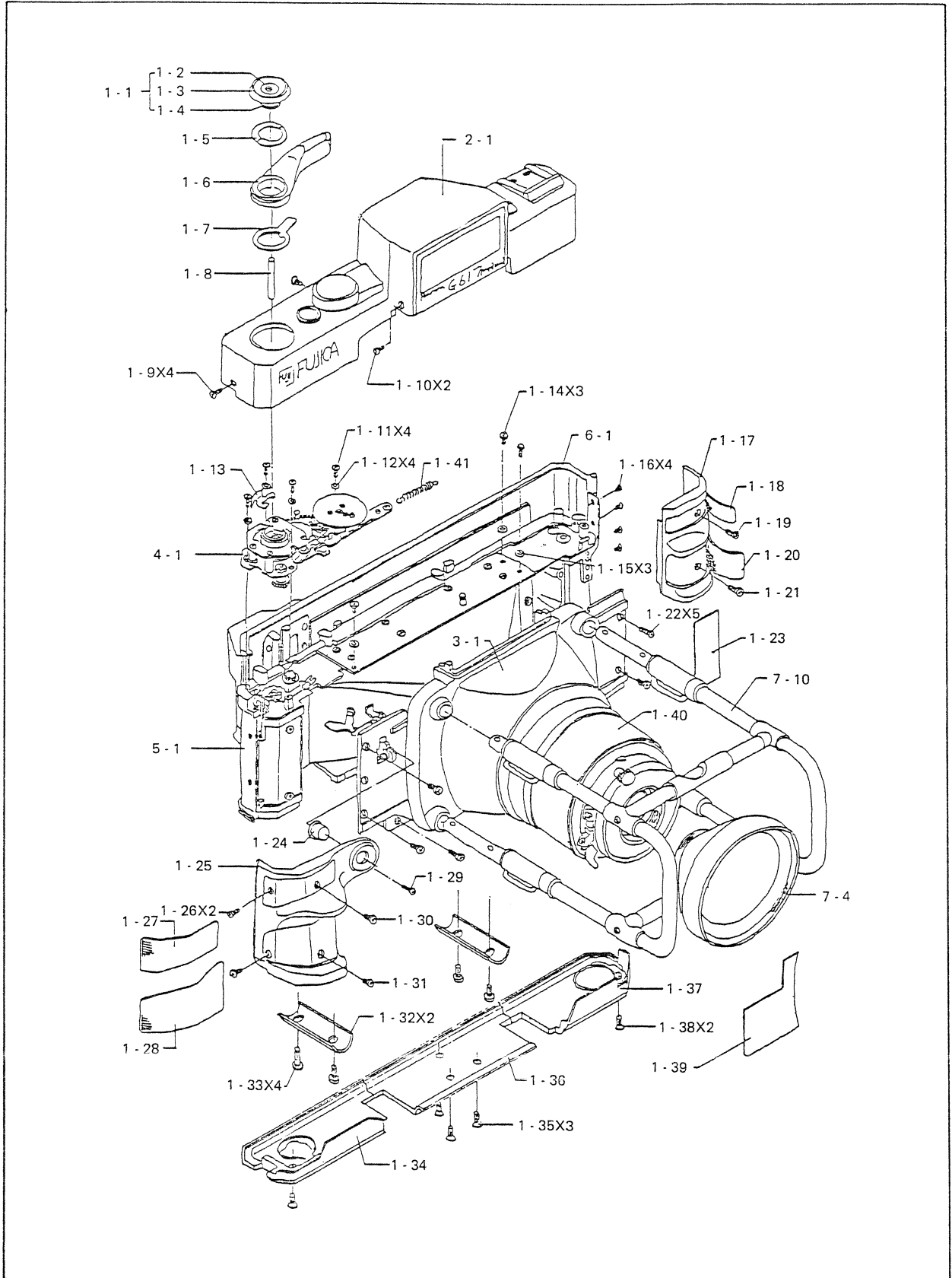
I GENERAL INFORMATION

1. The picture size of this panorama camera is 6cm X 17cm. This camera uses many parts commonly with Fujica GW690.
2. The shutter can be released either by the top or front shutter release.
The shutter is set by moving the shutter set lever located on the lens barrel until it stops.
The film is taken up one frame by winding the film advance lever four times.
When the film is advanced one frame completely, the stopper effects causing the film advance lever no longer to be wound.
3. This panorama camera consists of two sets of Fujica GW690. Do not remove the connecting plates and screws in the top and bottom.
In addition, those openings on Fujica GW690 which are not required for the Fujica G617 are covered with screws. Do not remove these screws, or otherwise, light leaking will result.
4. The camera back is formed by using two camera backs of Fujica GW690 and the camera backs are joined by means of welding. Be careful not to bend it.
5. The shutter can be released by the shutter release only when the camera is loaded with a film and the film is advanced to the first frame and the exposure counter indicates [1].

II DISASSEMBLY

- 1. Top cover assembly (2 - 1)**
 - Remove four screws (1 - 9) and two screws (1 - 10).
 - Remove the film advance lever (1 - 6).
- 2. Lens protector assembly (7 - 10)**
 - Remove three screws (1 - 14) and four screws (1 - 33).
 - Turn the front lens assembly (7 - 4) counterclockwise, and detach it.
 - Pull out the lens protector assembly forward.
- 3. Lens barrel assembly (3 - 1)**
 - Remove four screws (1 - 11) and remove the film take - up mechanism assembly (4 - 1) from the release lever.
 - Remove five screws (1 - 22), and remove the lens barrel assembly (3 - 1).
- 4. Shutter assembly (7 - 3)**
 - Turn the rear lens assembly (7 - 1) counterclockwise with the jig to remove it.
 - Remove the shutter tightening ring (7 - 2).

Fig. 1



III REASSEMBLY AND ADJUSTMENT

1. Chassis assembly (5 - 1)

a. Camera back hook (5 - 10)

Check the camera back hook (5 - 10) to insure that it is moved smoothly by the spring (5 - 8).

b. Exposure counter drum assembly (5 - 11)

- Install the exposure counter drive wheel (5 - 33) on the exposure counter drum shaft (5 - 34) by screwing it.
- Check the exposure counter drum assembly (5 - 11) to insure that it turns smoothly.

c. Guide roller (5 - 46)

Check the guide roller to insure that it turns smoothly.

d. Roller assembly (5 - 41) and pressure spring (5 - 49)

This pressure spring (5 - 49) is used to take up the film on the spool tightly. Check it for deformation, and replace as required.

e. Take - up spool knob assembly (5 - 19)

- Check the take - up spool knob assembly to insure that it moves smoothly with the spring (5 - 17).
- Raise it and insure that it can be locked with the diecast wall.

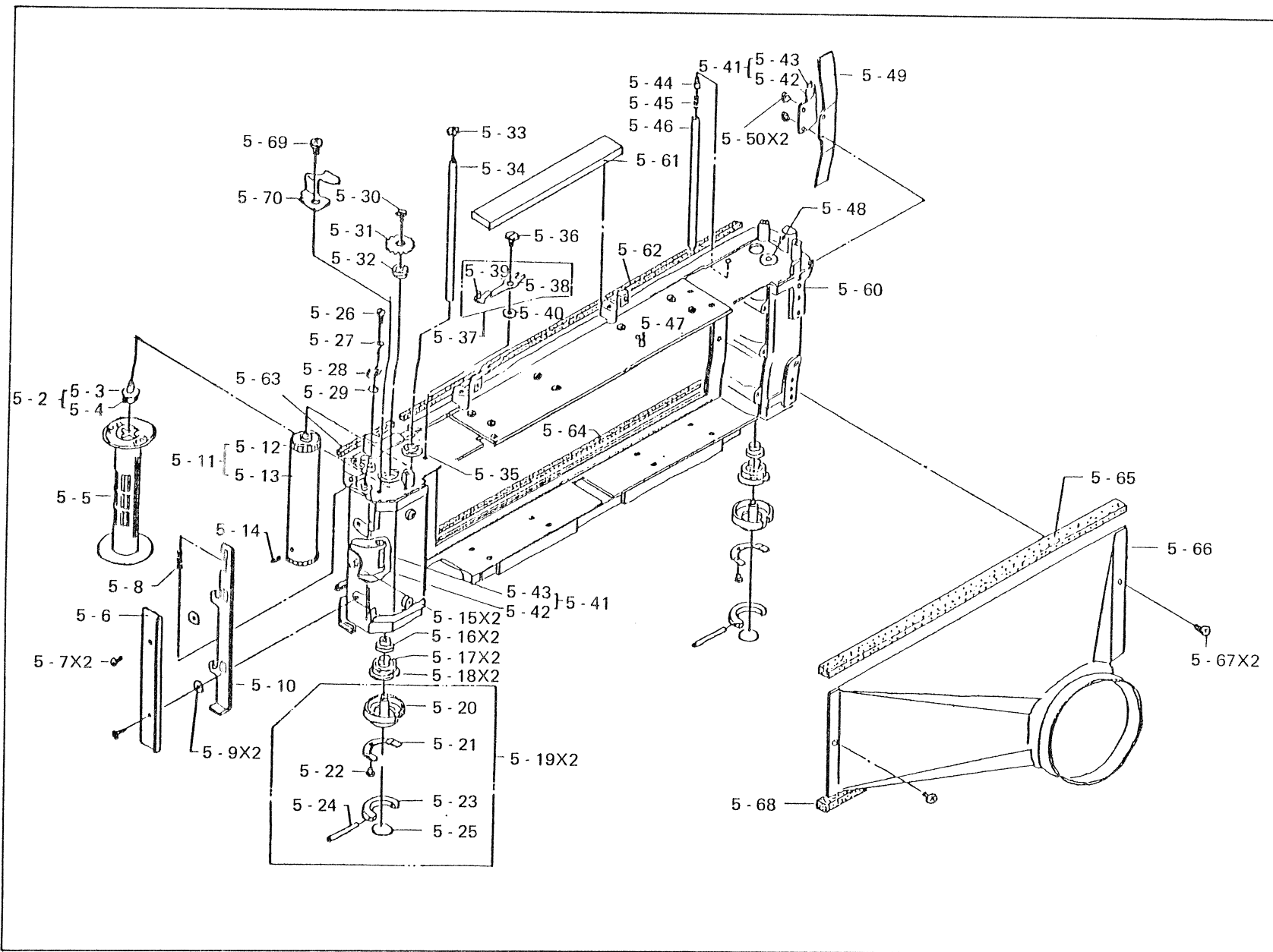
f. Lock lever assembly (5 - 37)

Check the lock lever assembly to insure that it moves smoothly and it is not bent.

g. Take - up shaft assembly (5 - 2)

- Check the take - up shaft assembly to insure that it is provided with a proper friction by the leaf spring (5 - 70).
- Apply Helicolube/Molycote mixed grease slightly to the sliding surface.

Fig. 2



2. Lens barrel assembly (3 - 1)

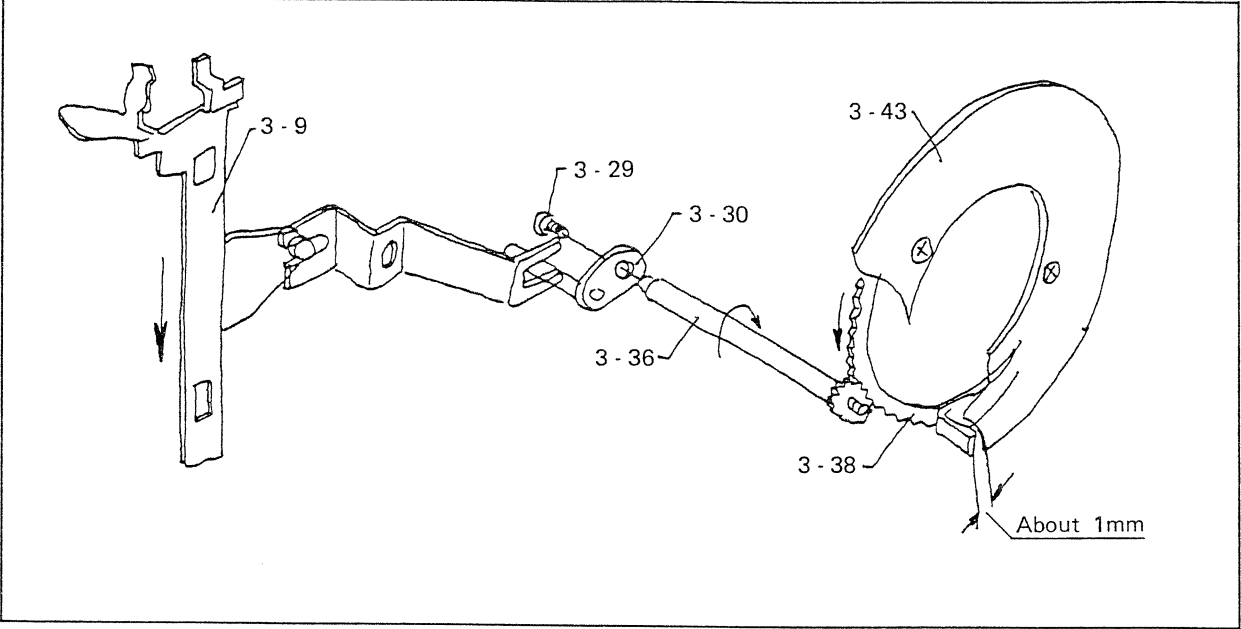
a. Adjusting position of the release plate assembly (3 - 38)

Loosen the screw (3 - 29), and adjust position of the release plate assembly against the connecting plate assembly (3 - 30) so that the gap between the cover ring assembly (3 - 43) and release plate assembly (3 - 38) is about 1 mm when the release lever assembly (3 - 9) is pressed down to the bottom.

After completing the adjustment, be sure to tighten the screw (3 - 29) securely and lock it with screw locking agent.

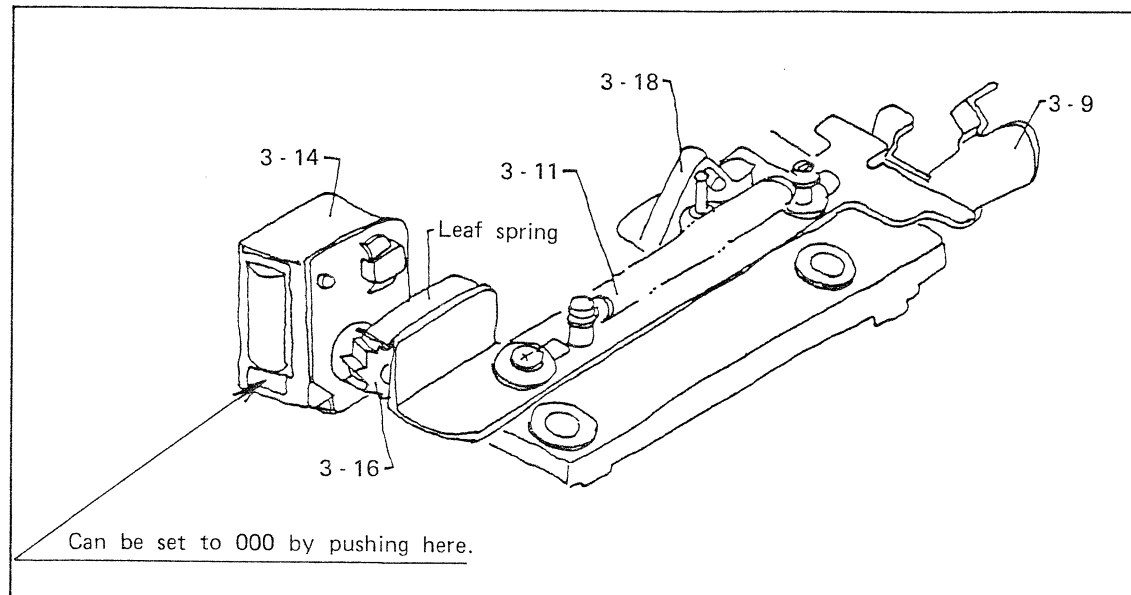
When the release plate assembly (3 - 38) is combined with the shutter, properly bend the release plate assembly to perform the final and fine adjustment.

Fig. 3



- b. Release lever assembly (3 - 9) and shutter actuation counter assembly (3 - 14)
 - Check the release lever assembly (3 - 9) to insure that it moves smoothly with the spring (3 - 11).
 - Push the lever (3 - 18) and make sure that the release lever assembly (3 - 9) moves smoothly.
 - Apply Helicolube/Molycote mixed grease to the shaft holding portions and sliding portions to smooth the movements of the parts.
 - Apply Helicolube/Molycote mixed grease to the gear (3 - 16) and sliding surface of the leaf spring.
 - Push down the release lever assembly (3 - 9) ten times, and make sure that the shutter actuation counter advances one scale.
 - When the shutter actuation counter does not advance correctly (advances insufficiently or excessively), properly bend the leaf spring head.

Fig. 4



3. Adjusting parallelism of the rail plane and lens focus

a. Adjusting parallelism of the rail plane

Measure the film rail plane by using a dial gauge with the shutter installing plane aligned vertically, and adjust parallelism of the film rail plane by applying washer (s) between the chassis assembly (5 - 1) and lens barrel assembly (3 - 1) so that heights at four corners are within ± 0.03 mm.

b. Adjusting lens focus

- The rated focus position is $+0.08$ mm (from rail plane to film side) ± 0.02 mm. Adjust the helicoid when necessary.
- When focus cannot be adjusted at the helicoid as the lens is replaced, check and adjust the washer (55B3770660) on the shutter installing plane.

Fig. 5

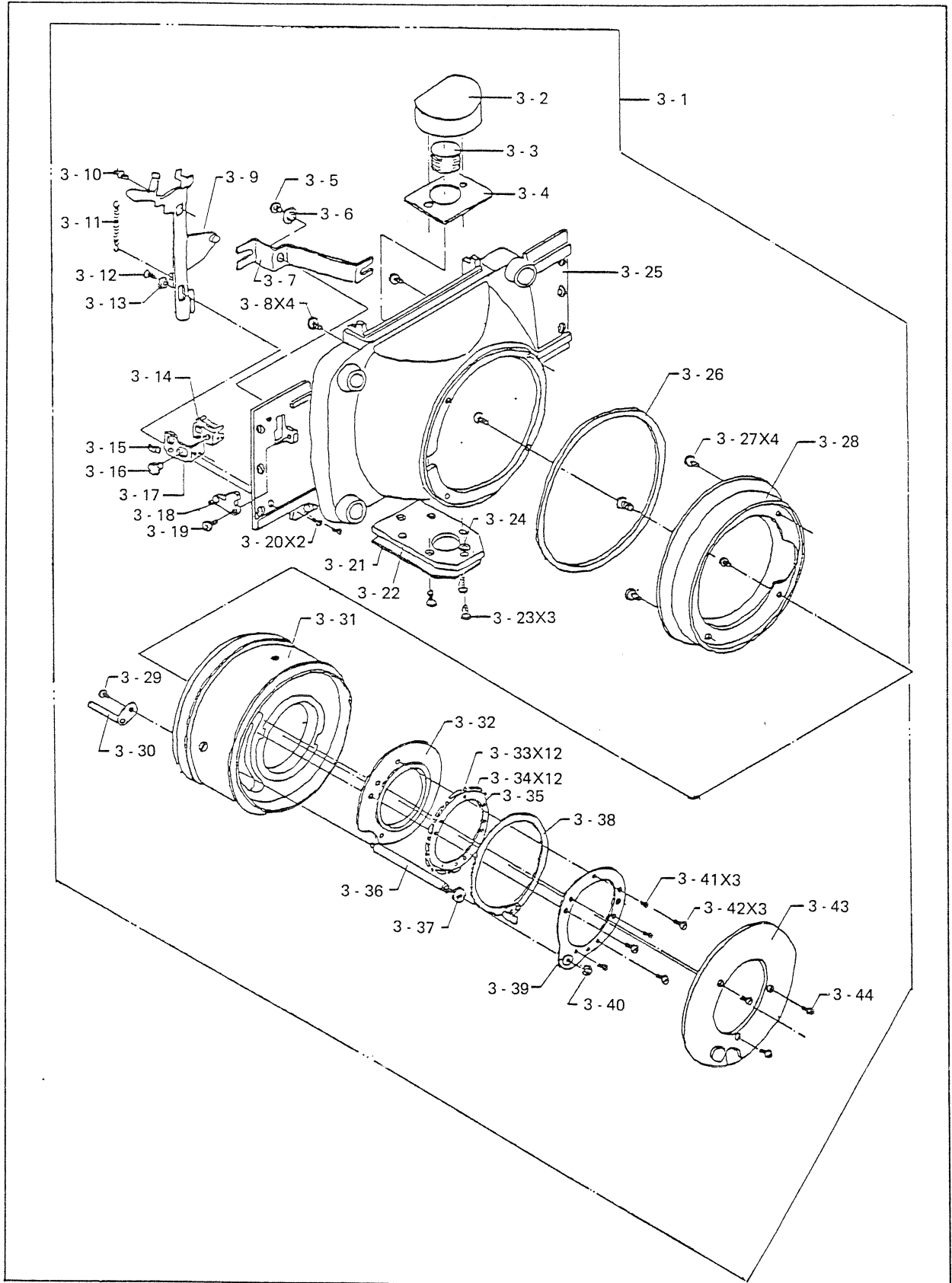
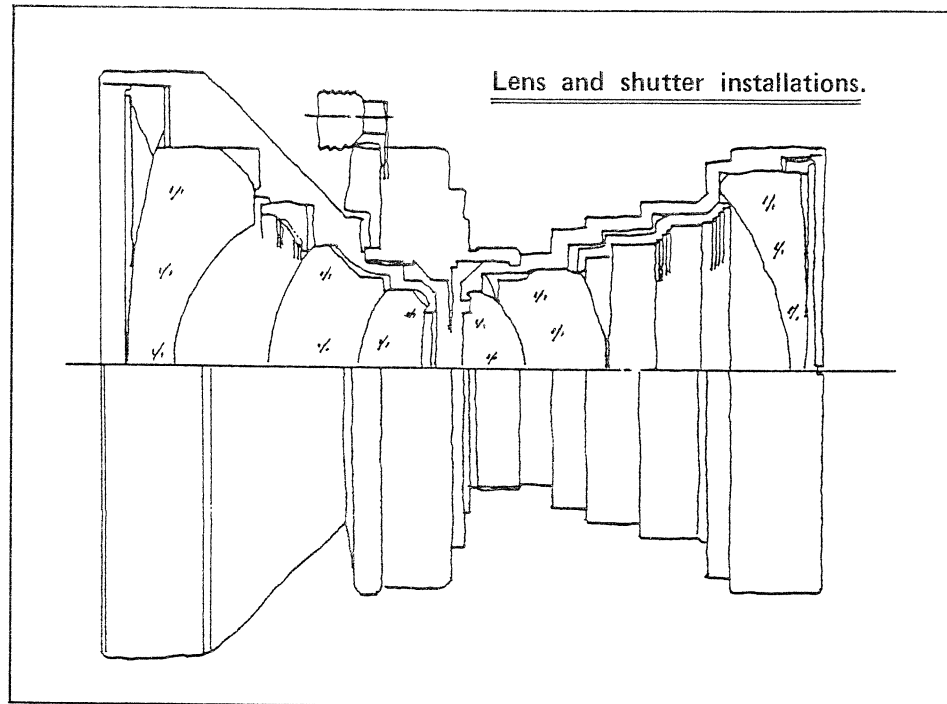


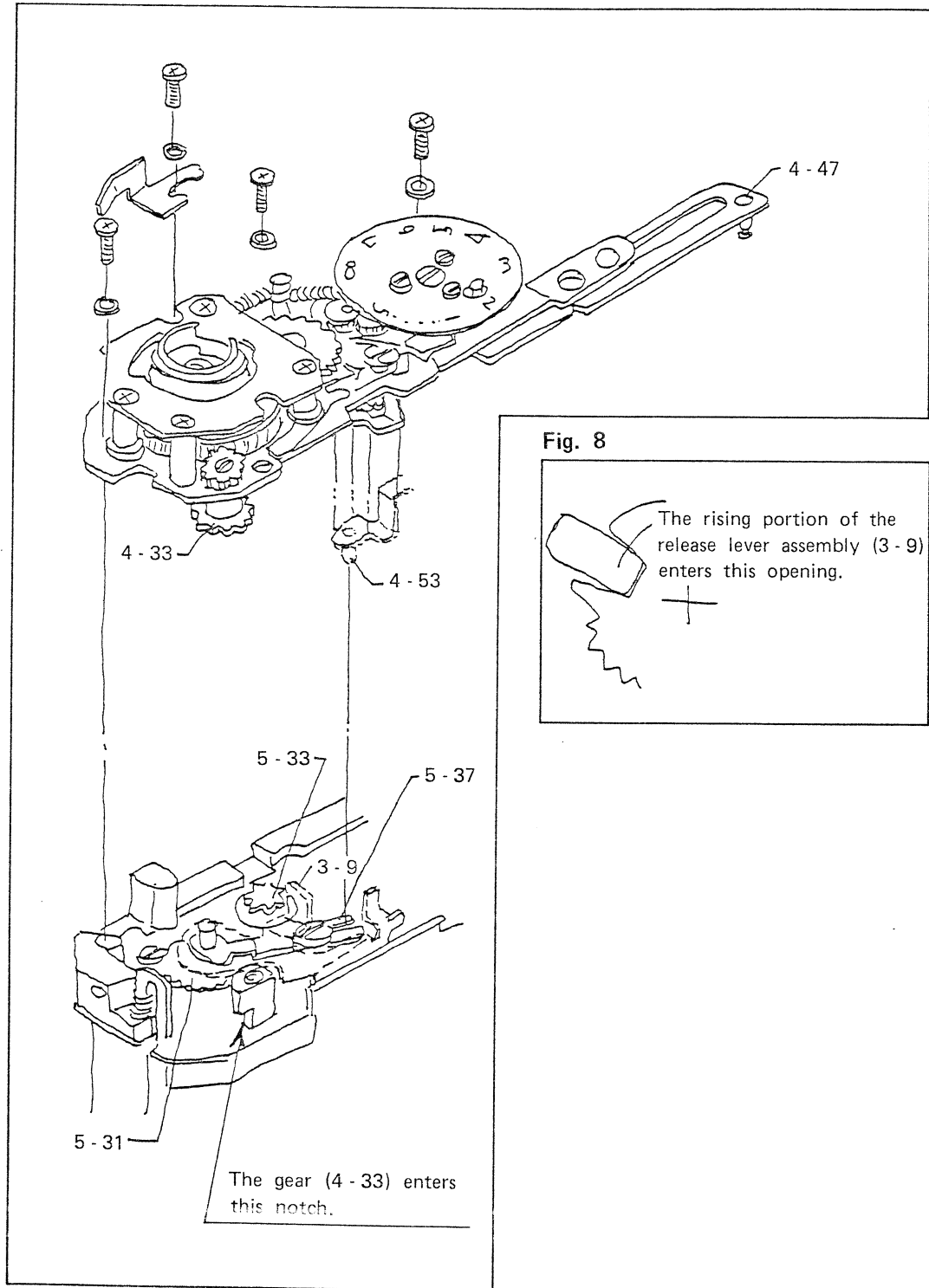
Fig. 6



4. Installing film take-up mechanism assembly (4 - 1)

- Install the take-up mechanism assembly with the rack assembly (4 - 47) pulled out.
- When combined, the release lever assembly (3 - 9) must enter the inside.
- Be sure to engage the interlock pin (4 - 53) with the lock lever assembly (5 - 37). When this engagement is not made, the shutter button will not be locked correctly.

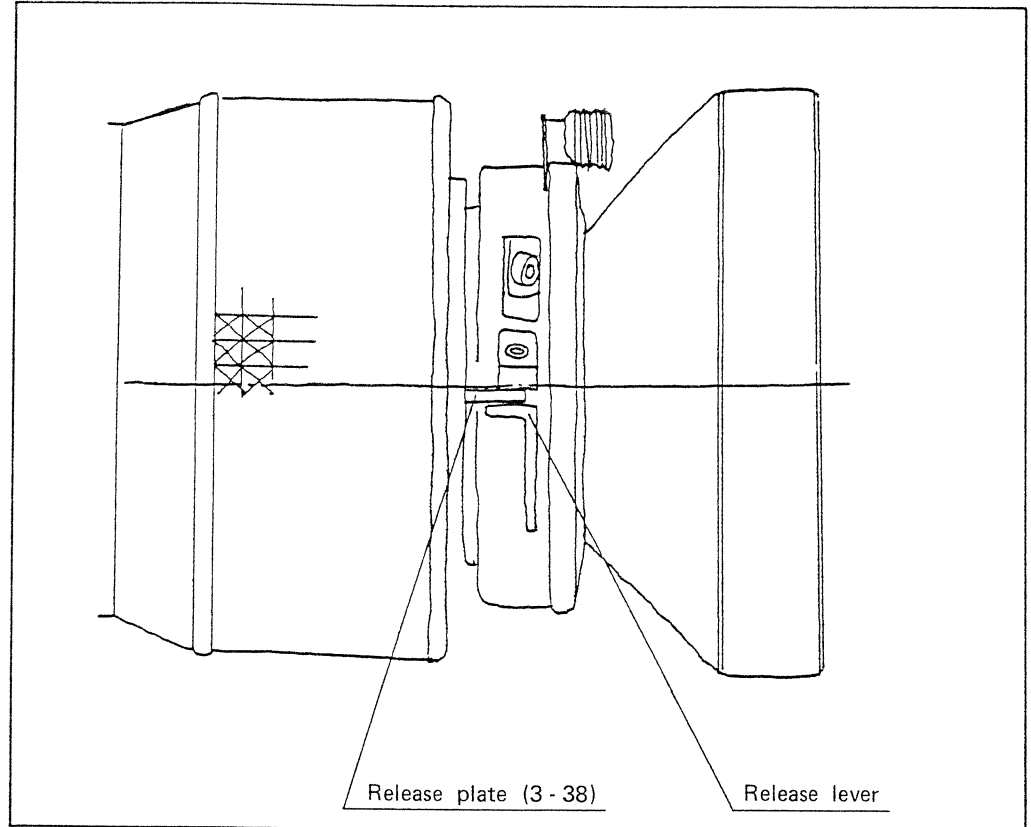
Fig. 7



5. Adjusting position where the shutter is released

- To adjust, properly bend the release plate (3 - 38).
- Using the front shutter release, make sure that the shutter releases when the shutter release is pressed 0.2 mm from the position where the rack assembly (4 - 47) disengages at the infinite position.
- Using the top shutter release, make sure that the shutter releases at the position (0.2 mm) as described above.
- Make sure that the shutter releases at the position as described above also when focusing is made at a short distance.
- The rack should not run after the shutter is released.

Fig. 9



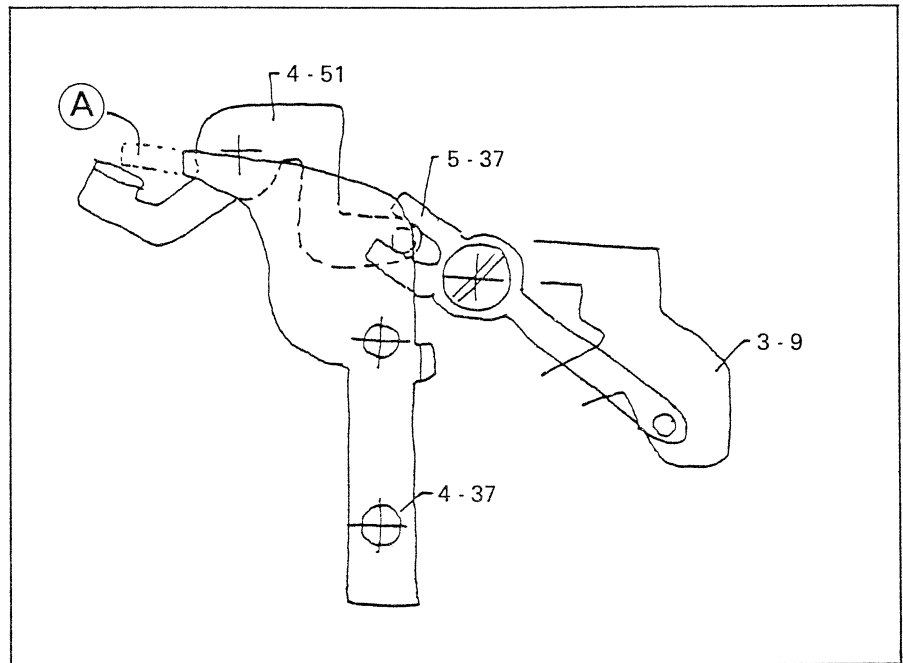
6. Operations of the film take-up mechanism assembly

a. Releasing and locking the shutter

Fujica G617 differs from Fujica GW690, and return lever (4 - 37) has no portion (A). For this reason, the lock lever assembly (5 - 37) does not run away from the release lever assembly (3 - 9), and the shutter is always locked.

When the camera is loaded with a film and the exposure counter advances to the 1st frame, however, the lock lever (5 - 37) runs away from the release lever assembly (3 - 9).

Fig. 10



b. Advancing the film from S to 1st frame

The pawl (4 - 36) runs away from the pawl wheel (4 - 20) (because the lever assembly (4 - 88) is in contact with the disc (4 - 99), and therefore, the film can be taken up freely.

Then, as the film is taken up, the film roller turns and the exposure counter advances.

When the exposure counter advances to the 1st frame, the lever assembly (4 - 88) drops into the groove on the disc (4 - 99), the pawl engages with the pawl wheel (4 - 20), and thus, the film is no longer taken up.

Fig. 11

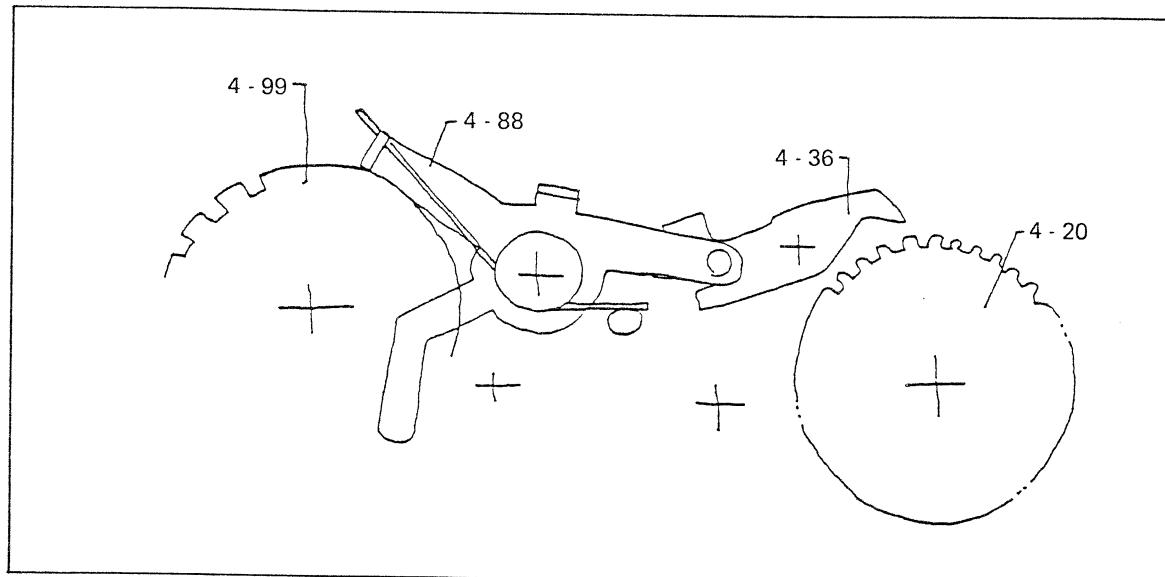
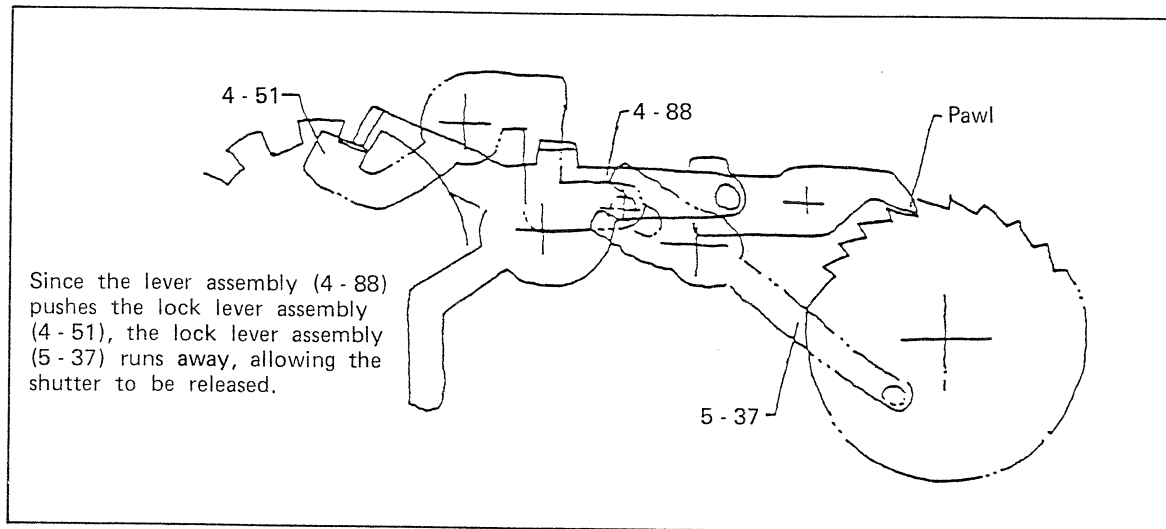


Fig. 12



c. Releasing the shutter

Fig. 13

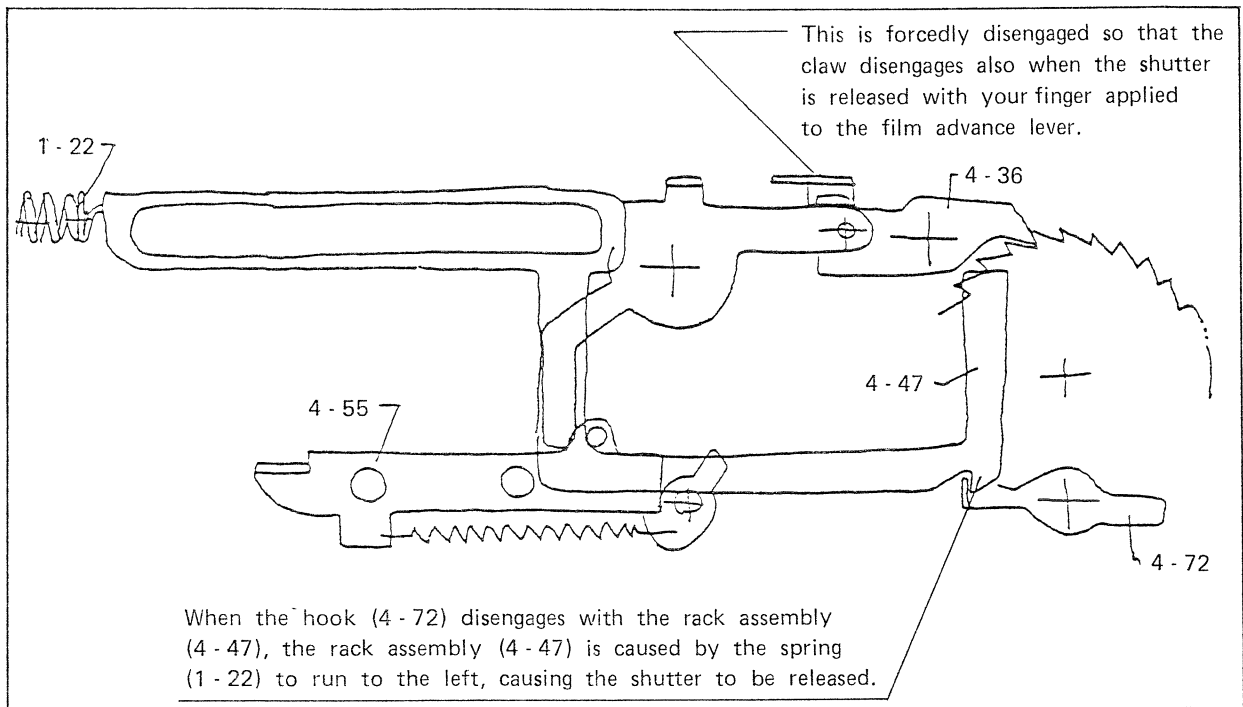
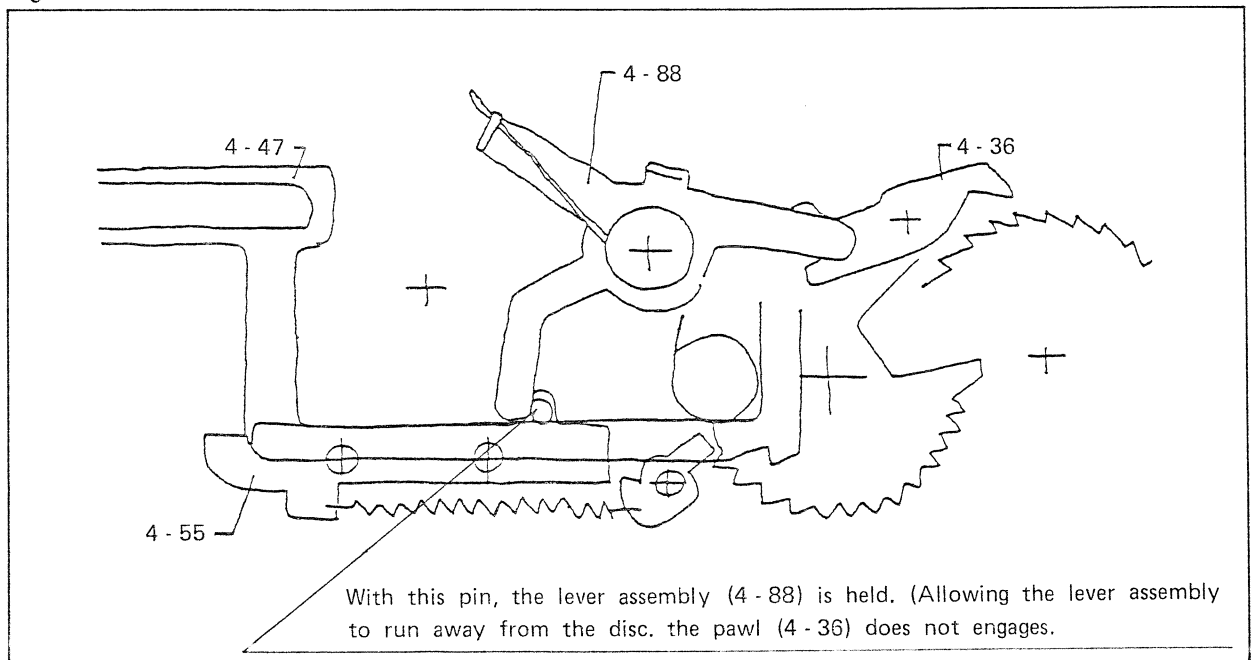


Fig. 14



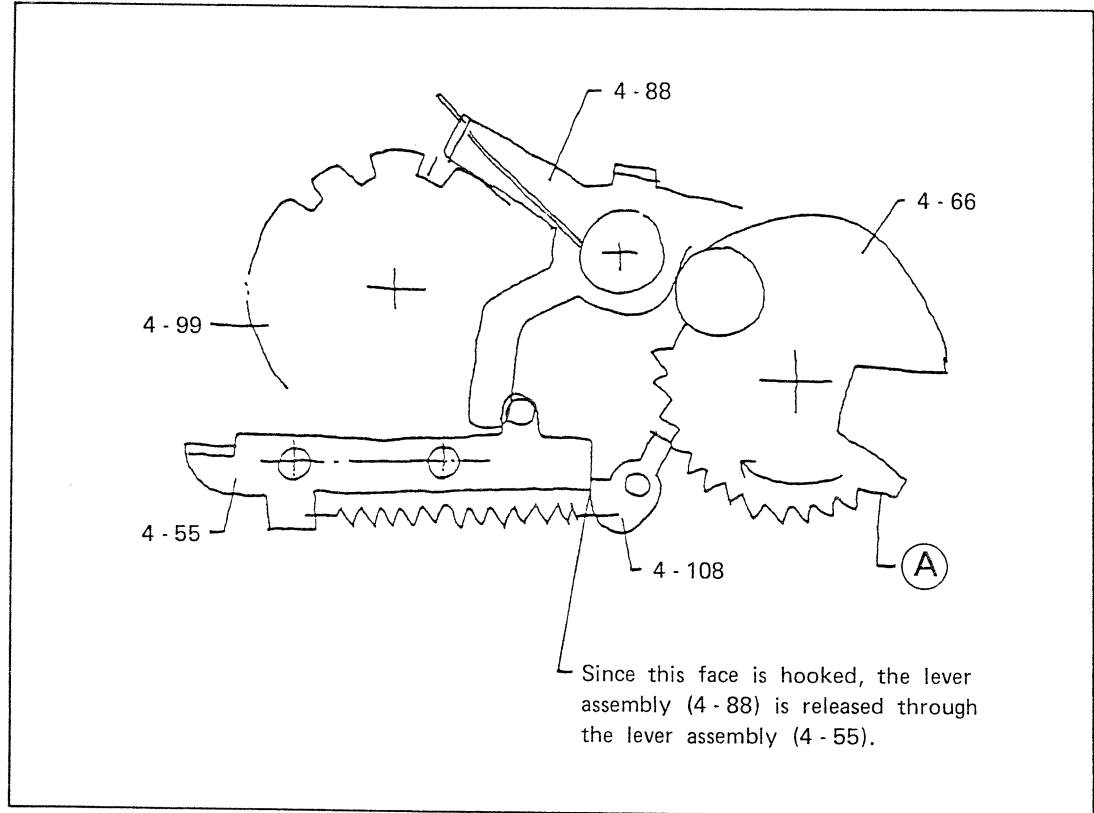
d. During winding up the film and advance lever

The claw (A) of the ratchet wheel (4 - 66) pushes the lever (4 - 108).

Then, the hook disengages allowing the lever assembly (4 - 88) to drop into the disc.

When the film is advanced one frame (when the film advance lever is wound up twice), the exposure counter advances and the lever assembly (4 - 88) drops into the groove, causing the film take to stop.

Fig. 15



e. Reaching the film end

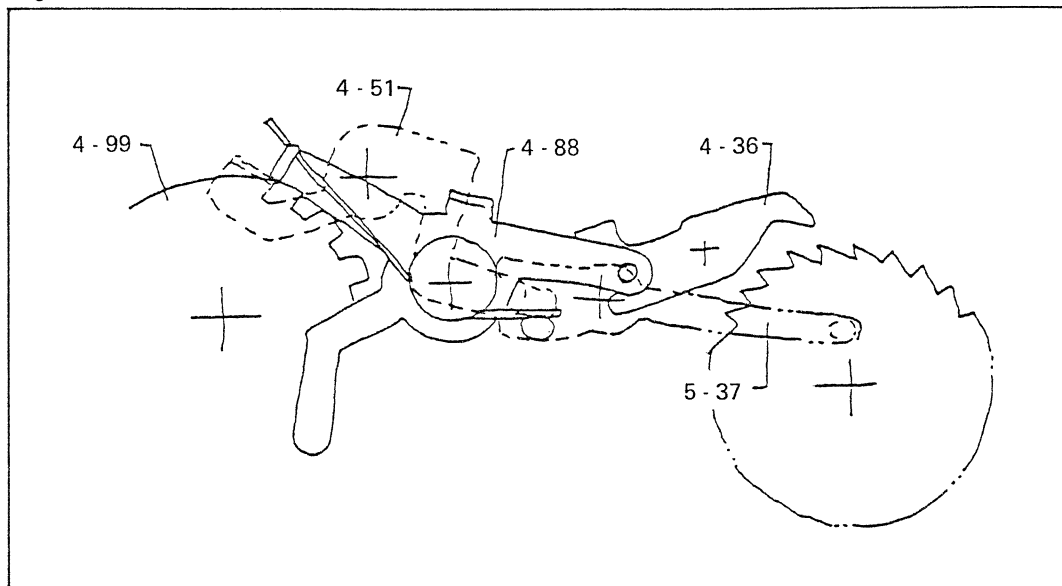
When the film is taken up to the last frame and it is exposed, the film can be taken up freely because the lever assembly (4 - 88) is released at the outer circumference of the disc (4 - 99).

In addition, the lock lever assembly (5 - 37) moves, causing the shutter release not to be depressed.

The exposure counter dial is caused to stop at 4th and 8th frame by the limit lever (2 - 14) extended from the top cover assembly (3 - 1). Then, the exposure counter dial slips.

When the exposure counter dial is slipping the lever assembly (4 - 88) must be positioned in between grooves of the disc (4 - 99).

Fig. 16



- f. Exposure counter zero - resetting

Fig. 17

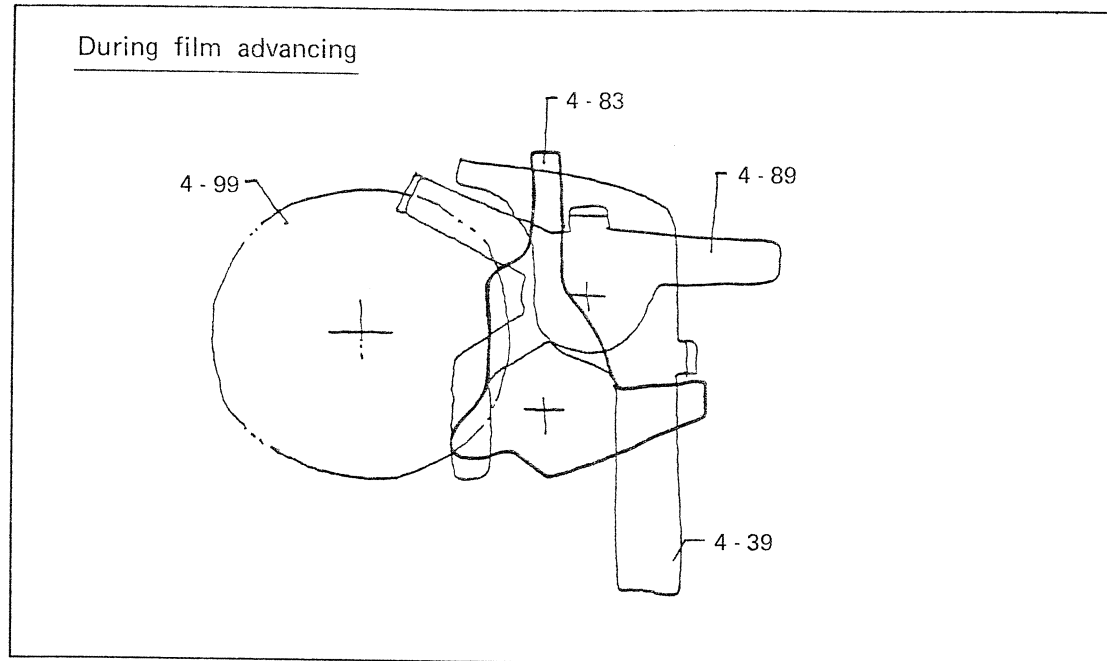
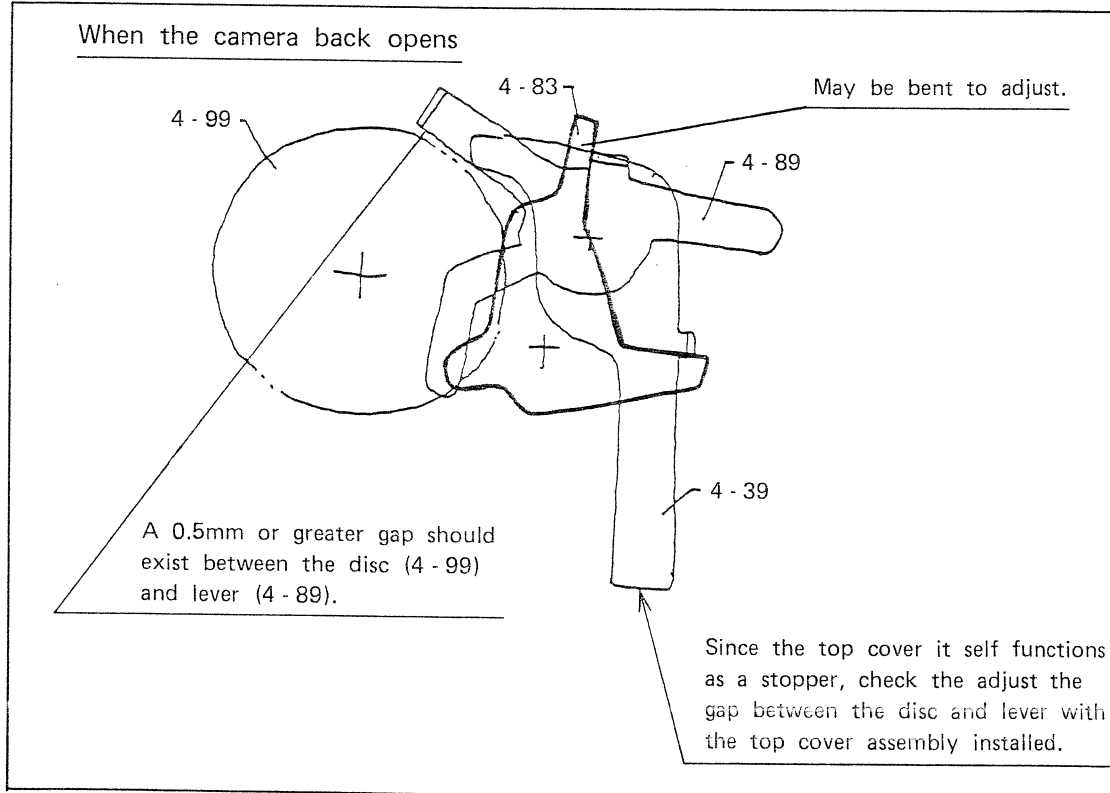
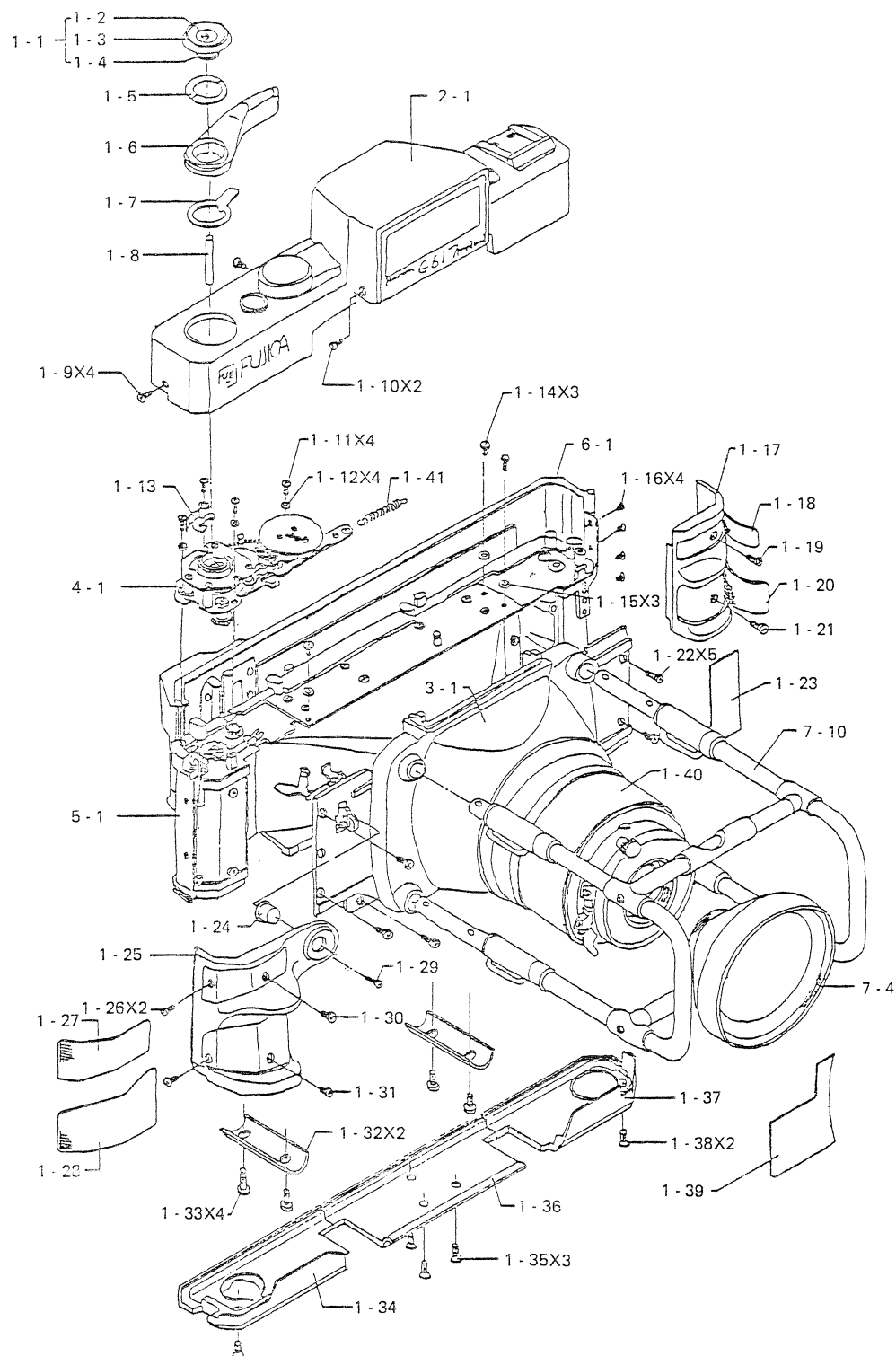


Fig. 18



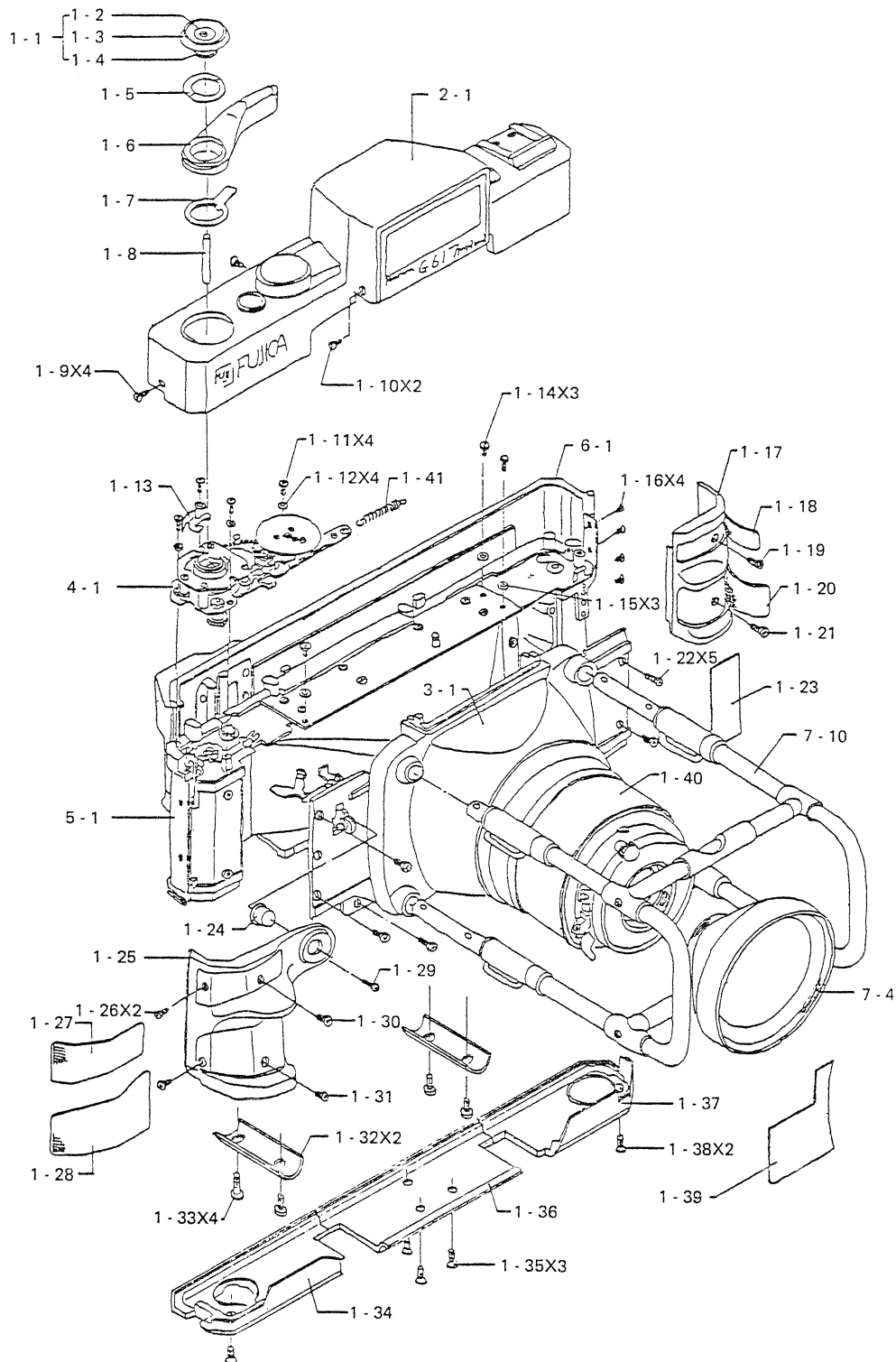
IV PARTS LIST

Fig. 1



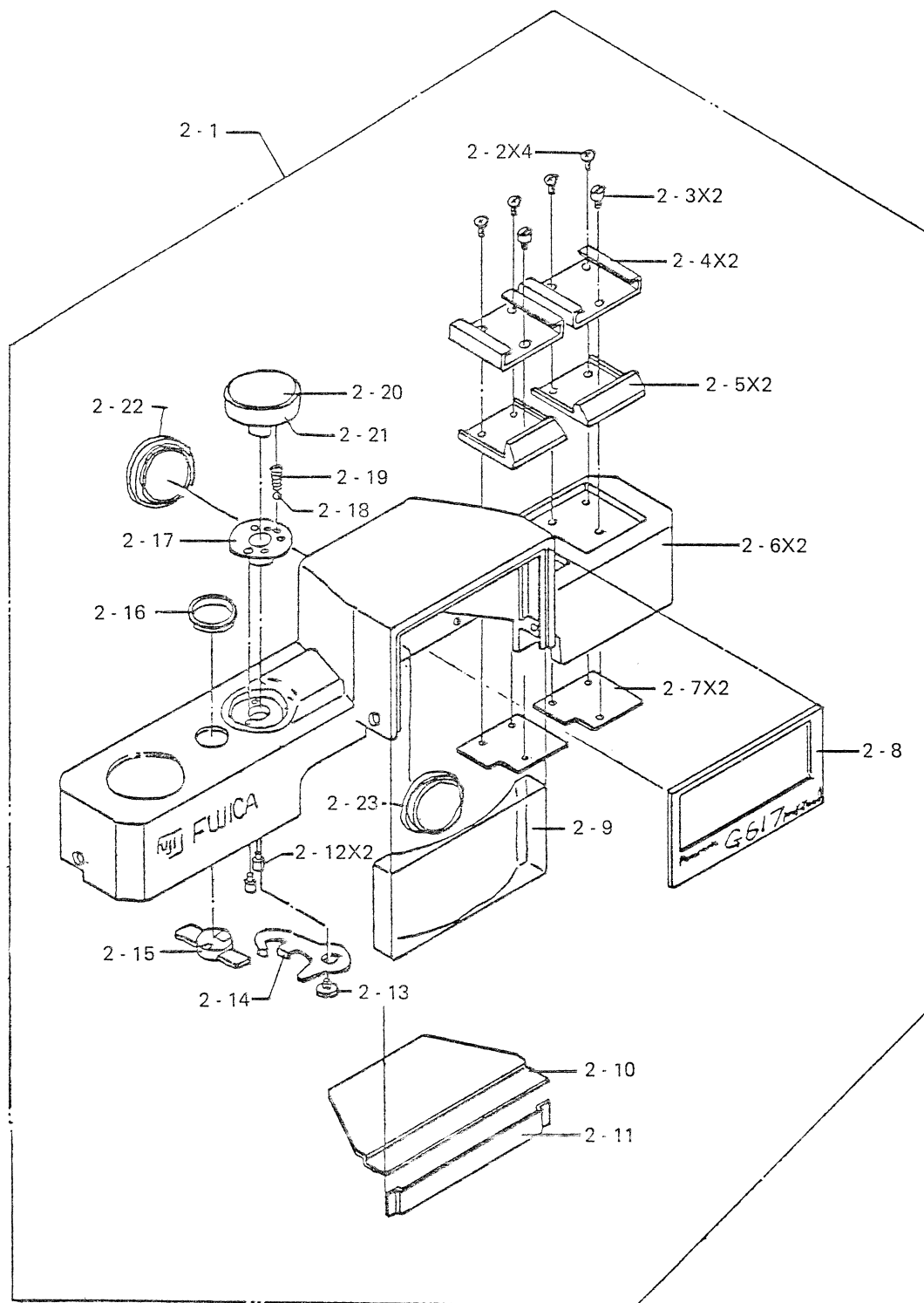
REF NO.	PART NO.	PART NAME	Q'TY	REMARKS
1 - 1	84A2189500	Top shutter release assembly	1	GW 690
1 - 5	50B29400	Washer	1	GW 690
1 - 6	47B489640	Film advance lever	1	GW 690
1 - 7	85B29390	Stopper	1	GW 690
1 - 8	32B2189010	Shutter release shaft	1	GW 690
1 - 9	53B491260	Screw	4	GW 690
1 - 10	53B2189030	Screw	2	GW 690
1 - 11	110M200503S	Screw	4	GW 690
1 - 12	165M202H	Washer	4	GW 690
1 - 13	50B2189100	Leaf spring	1	GW 690
1 - 14	110M200903N	Screw	3	
1 - 15	55B3771080	Washer	3	
1 - 16	111M170251S	Screw	4	
1 - 17	46B3770680	Grip	1	
1 - 18	59B3770620	Leather	1	
1 - 19	110M200601S	Screw	1	
1 - 20	59B3770630	Leather	1	
1 - 21	110M200601S	Screw	1	
1 - 22	110M260603S	Screw	5	
1 - 23	59B3770600	Leather	1	
1 - 24	16B2188200	Front shutter release	1	
1 - 25	46B3770670	Grip	1	
1 - 26	110M200601S	SCREW	2	
1 - 27	59B3770640	Leather	1	
1 - 28	59B3770650	Leather	1	
1 - 29	53B3770550	Screw	1	
1 - 30	110M201001S	Screw	1	
1 - 31	110M201001S	Screw	1	
1 - 32	13B3770910	Holder	2	
1 - 33	53B3770560	Screw	4	
1 - 34	11B3770710	Bottom cover (left)	1	
1 - 35	111M201200G	Screw	3	

Fig. 1



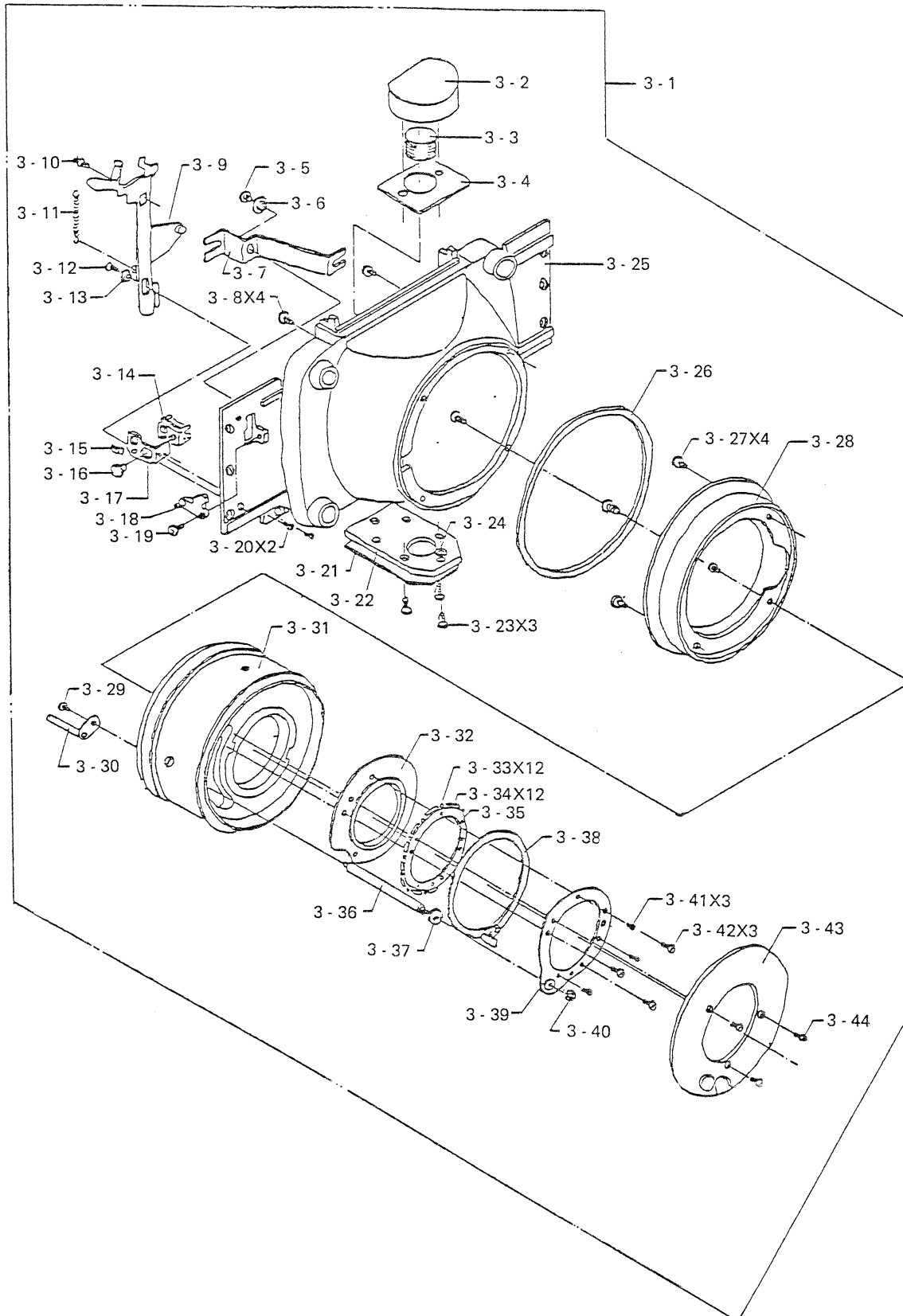
REF NO.	PART NO.	PART NAME	Q'TY	REMARKS
1 - 36	11B3770690	Bottom cover (center)	1	
1 - 37	11B3770700	Bottom cover (right)	1	
1 - 38	53B2189030	Screw	2	
1 - 39	59B3770610	Leather	1	
1 - 40	59B3772870	Rubber ring	1	
1 - 41	50B2191320	Spring	1	

Fig. 2



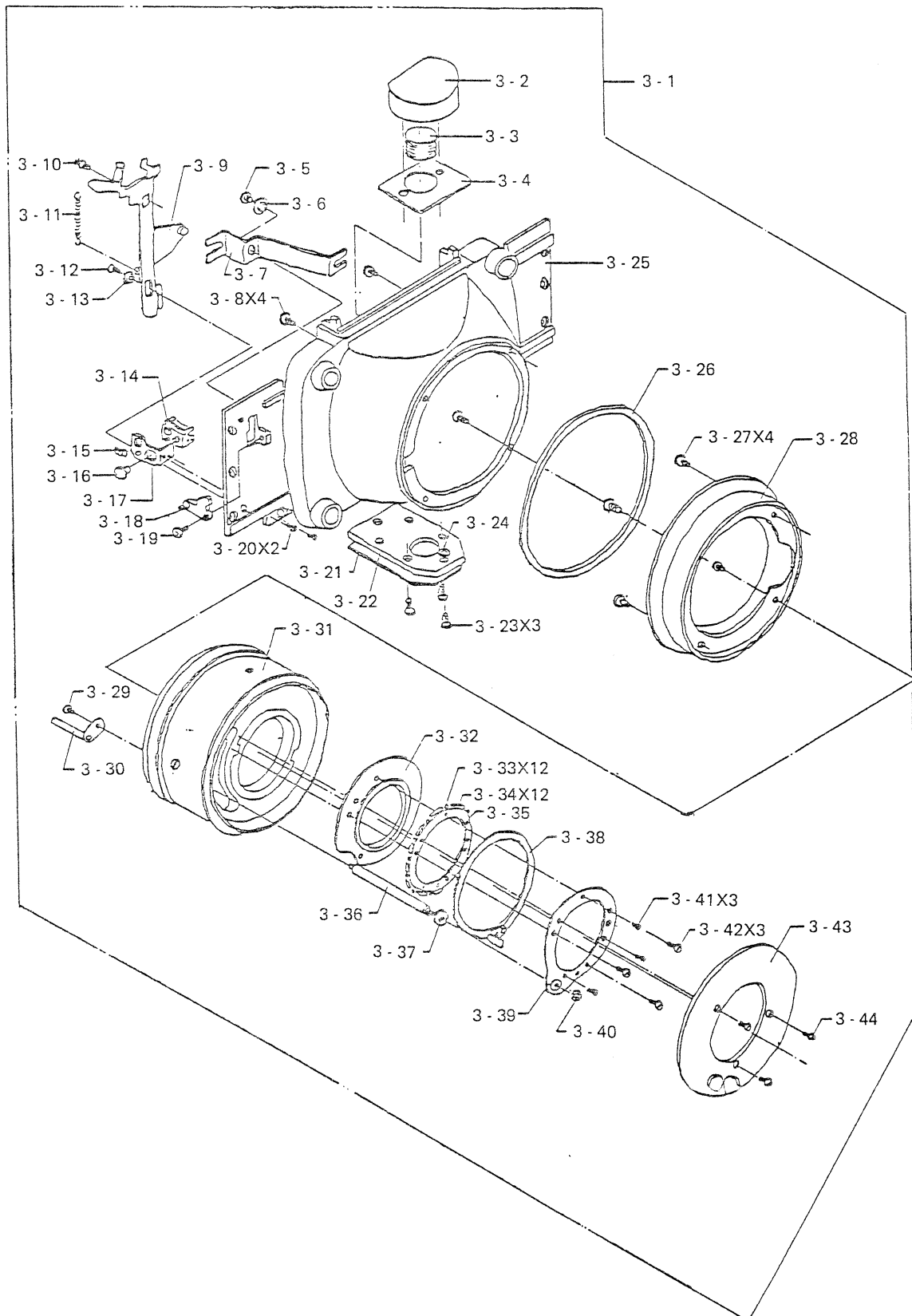
REF NO.	PART NO.	PART NAME	Q'TY	REMARKS
2 - 1	303A3771940	Top cover assembly	1	
2 - 2	111M170503C	Screw	4	
2 - 3	53B2192670	Screw	2	GW 690
2 - 4	41B2192610	Accessory shoe	2	GW 690
2 - 5	41B2192620	Shoe seat	2	GW 690
2 - 7	46B2192630	Seat plate	2	GW 690
2 - 8	6B3772040	Viewfinder glass	1	
2 - 9	1B3783540	Lens	1	
2 - 10	27B3772080	Light shielding plate	1	
2 - 11	11B3772090	Glass holder	1	
2 - 13	53B2191310	Screw	1	GW 690
2 - 14	47B2192560	Limit lever	1	GW 690
2 - 18	200M020	Steel ball	1	
2 - 19	50B2192680	Spring	1	GW 690
2 - 20	59B3772070	Cover plate	1	
2 - 21	16B3772060	Film selector knob	1	
2 - 23	23A3771950	Lens frame assembly	1	

Fig. 3



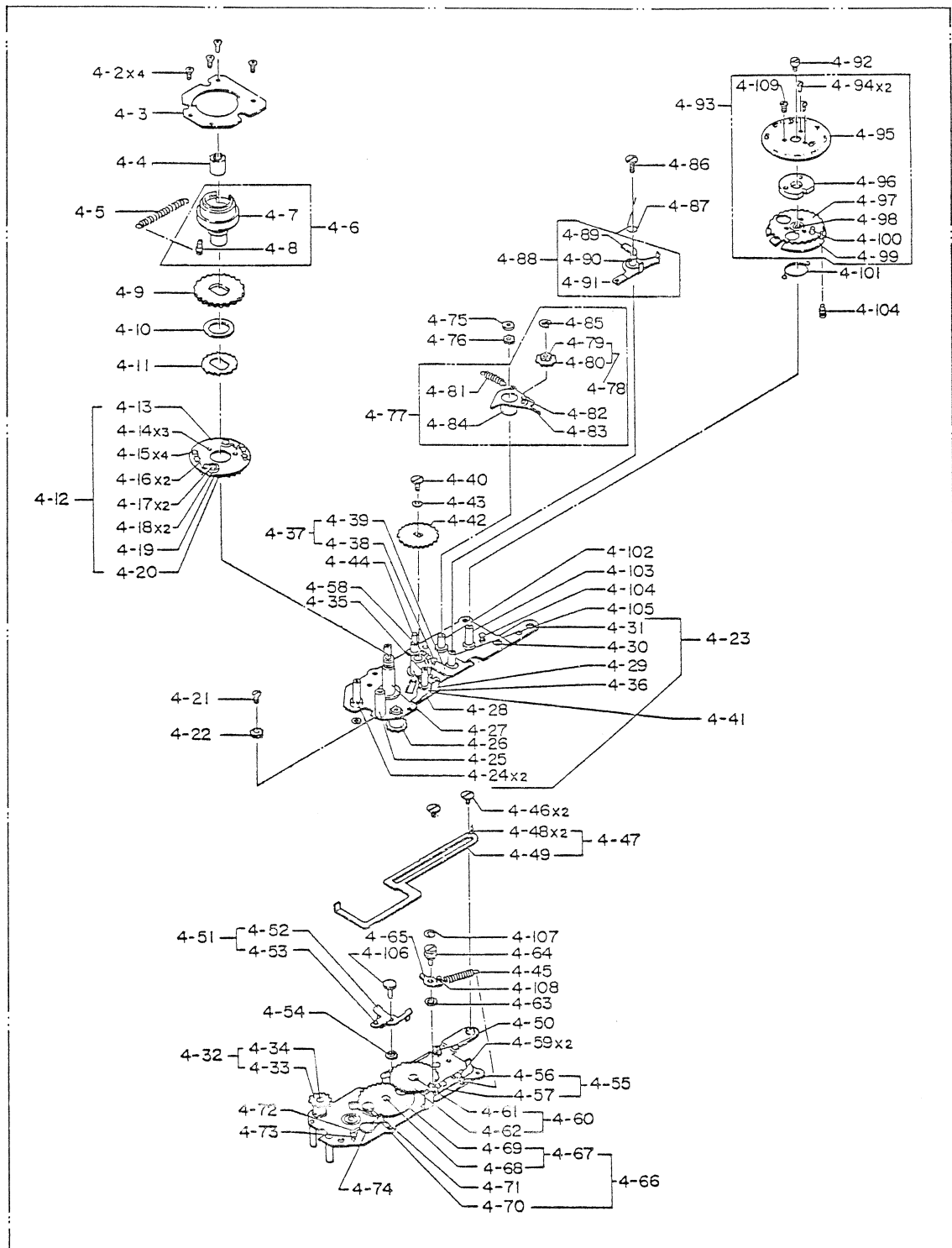
REF NO.	PART NO.	PART NAME	Q'TY	REMARKS
3 - 1	324A3772740	Lens barrel assembly	1	GW 690
3 - 2	53B3772640	Tripod screw	1	
3 - 3	53B3770931	Screw	1	
3 - 4	55B3772900	Spacer	1	
3 - 5	110M200401S	Screw	1	
3 - 6	32B3772940	Seat plate	1	
3 - 7	47B3772600	Connecting lever	1	
3 - 8	110M230603S	Screw	4	
3 - 9	47A3772750	Release lever assembly	1	
3 - 11	50B2188300	Spring	1	
3 - 12	110M200403S	Screw	1	
3 - 14	322A2188980	Shutter actuation counter assembly	1	
3 - 15	322A2188980	Leaf spring	1	
3 - 16	34B2188770	Gear	1	
3 - 17	41B2188760	Angle	1	
3 - 18	47B2188210	Lever	1	
3 - 19	32B2188220	Shaft	1	
3 - 20	111M170351N	Screw	2	
3 - 21	30B3770730	Tripod seat	1	
3 - 22	30B3770740	Tripod seat	1	
3 - 23	111M201200G	Screw	3	
3 - 24	55B3771090	Washer	1	
3 - 26	23B3772630	Ring	1	
3 - 27	110M260801S	Screw	4	
3 - 28	23B3772650	Index ring	1	
3 - 29	19B96123	Screw	1	
3 - 30	85A3772830	Connecting plate assembly	1	
3 - 31	21A3772780	Helicoid assembly	1	
3 - 32	23B3772700	Shutter frame	1	
3 - 33	200M20	Steel ball	12	
3 - 34	24B2188510	Spacer	12	
3 - 35	23B2188740	Ring	1	

Fig. 3



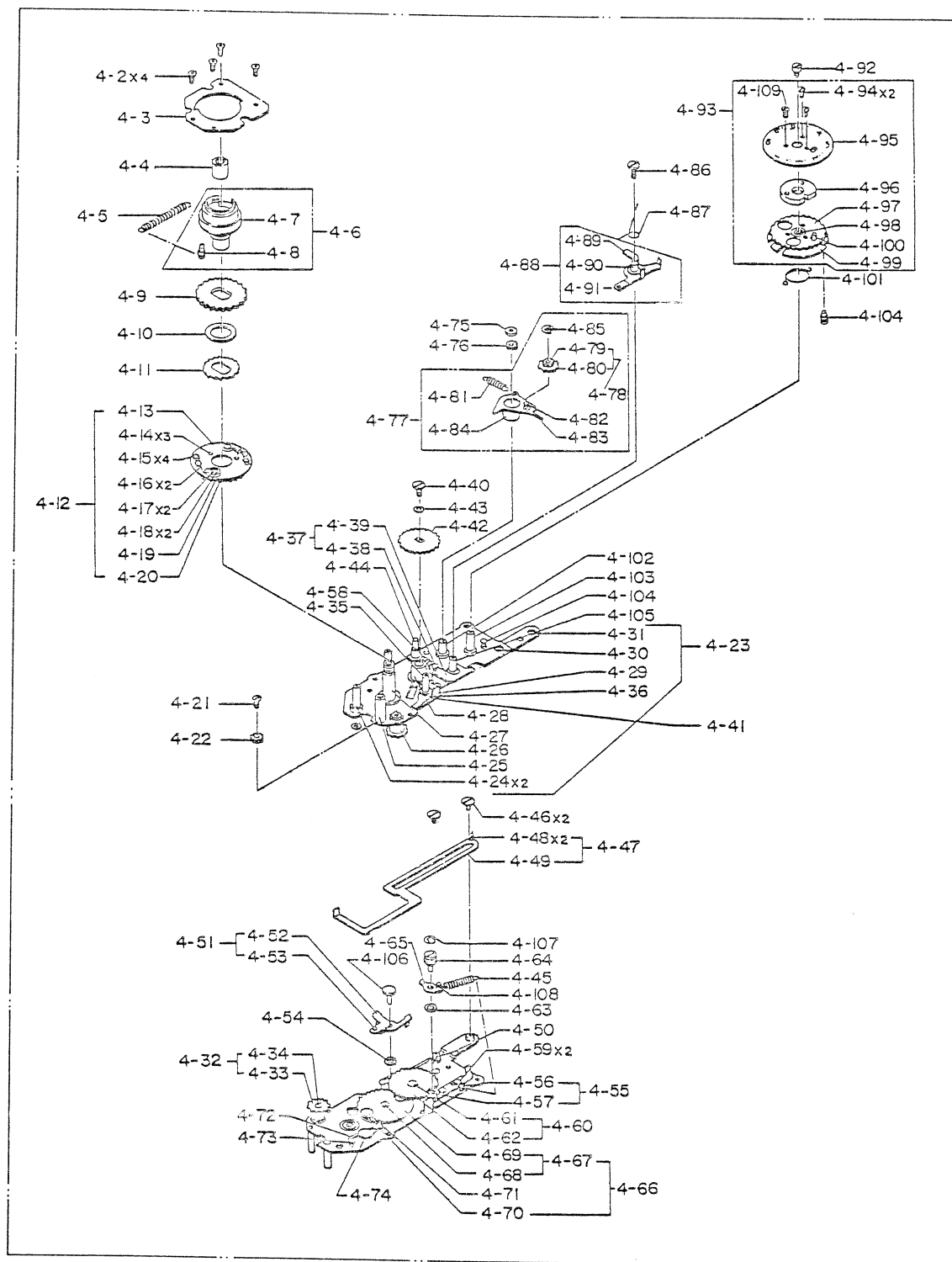
REF NO.	PART NO.	PART NAME	Q'TY	REMARKS
3 - 36	32B3772670	Gear shaft	1	
3 - 37	34B2188380	Gear	1	
3 - 38	34A3772810	Release plate assembly	1	
3 - 39	47A2188920	Holder assembly	1	
3 - 40	191M12	E - clip	1	
3 - 41	111M170451S	Screw	3	
3 - 42	111M200901S	Screw	3	
3 - 43	23A3772800	Cover ring assembly	1	
3 - 44	111M200901S	Screw	3	

Fig. 4



REF NO.	PART NO.	PART NAME	Q'TY	REMARKS
4 - 1	310A3771700	Film take - up mechanism assembly	4	
4 - 2	111M170401S	Screw	4	GW 690
4 - 3	46B2191090	Base plate (top)	1	GW 690
4 - 4	54B29361	Nut	1	GW 690
4 - 5	50B29380	Spring	1	GW 690
4 - 6	42A2192020	Sleeve assembly	1	GW 690
4 - 9	34B2191020	Gear	1	GW 690
4 - 10	55B2191450	Washer	1	GW 690
4 - 11	34B29350	Ratchet wheel	1	GW 690
4 - 12	85A719480	Disc assembly	1	GL 690
4 - 21	53B29190	Screw	1	GW 690
4 - 22	34B489620	Gear	1	GW 690
4 - 32	34A2192050	Gear assembly	1	GW 690
4 - 40	53B29220	Screw	1	GW 690
4 - 42	34B2191080	Gear	1	GW 690
4 - 43	165M232H	Washer	1	GW 690
4 - 45	50B29870	Spring	1	GW 690
4 - 46	53B2191310	Screw	2	GW 690
4 - 47	34A3771720	Rack assembly	1	
4 - 50	50B2191440	Spring	1	GW 690
4 - 51	47A2192150	Lock lever assembly	1	GW 690
4 - 54	32B28871	Rotary base	1	GW 690
4 - 58	50B2191390	Spring	1	GW 690
4 - 60	34A2192090	Gear	1	GW 690
4 - 66	34A2192040	Ratchet wheel assembly	1	GW 690
4 - 73	50B2191121	Spring	1	GW 690
4 - 75	54B494060	Nut	1	GW 690
4 - 76	34B494050	Gear	1	GW 690
4 - 77	85A2192080	Rotary plate assembly	1	GW 690
4 - 78	34A2192070	Gear assembly	1	GW 690
4 - 81	50B494110	Spring	1	GW 690
4 - 85	191M012T	E - clip	1	GW 690

Fig. 4



REF NO.	PART NO.	PART NAME	Q'TY	REMARKS
4 - 86	53B2191470	Screw	1	GW 690
4 - 87	50B2191460	Spring	1	GW 690
4 - 88	47A2192120	Lever assembly	1	GW 690
4 - 92	53B28730	Screw	1	GW 690
4 - 93	34A3771710	Dial assembly	1	
4 - 94	53B721100	Screw	2	GW 690
4 - 95	58B3771750	Dial	1	
4 - 96	24B494181	Spacer	1	GW 690
4 - 101	50B28720	Spring	1	GW 690
4 - 107	50B2191490	Spring	1	GW 690
4 - 109	111M140501S	Screw	1	GW 690

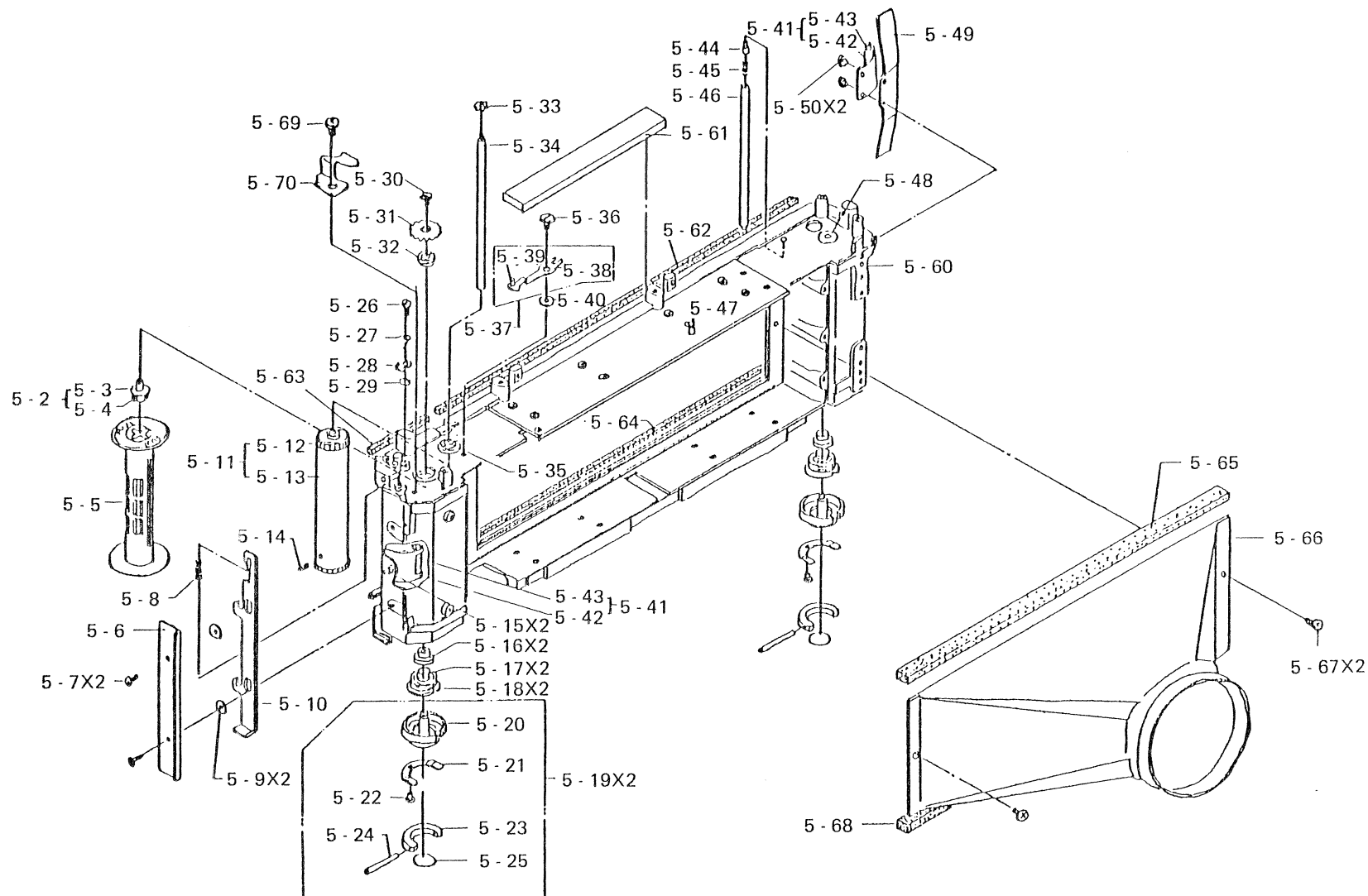
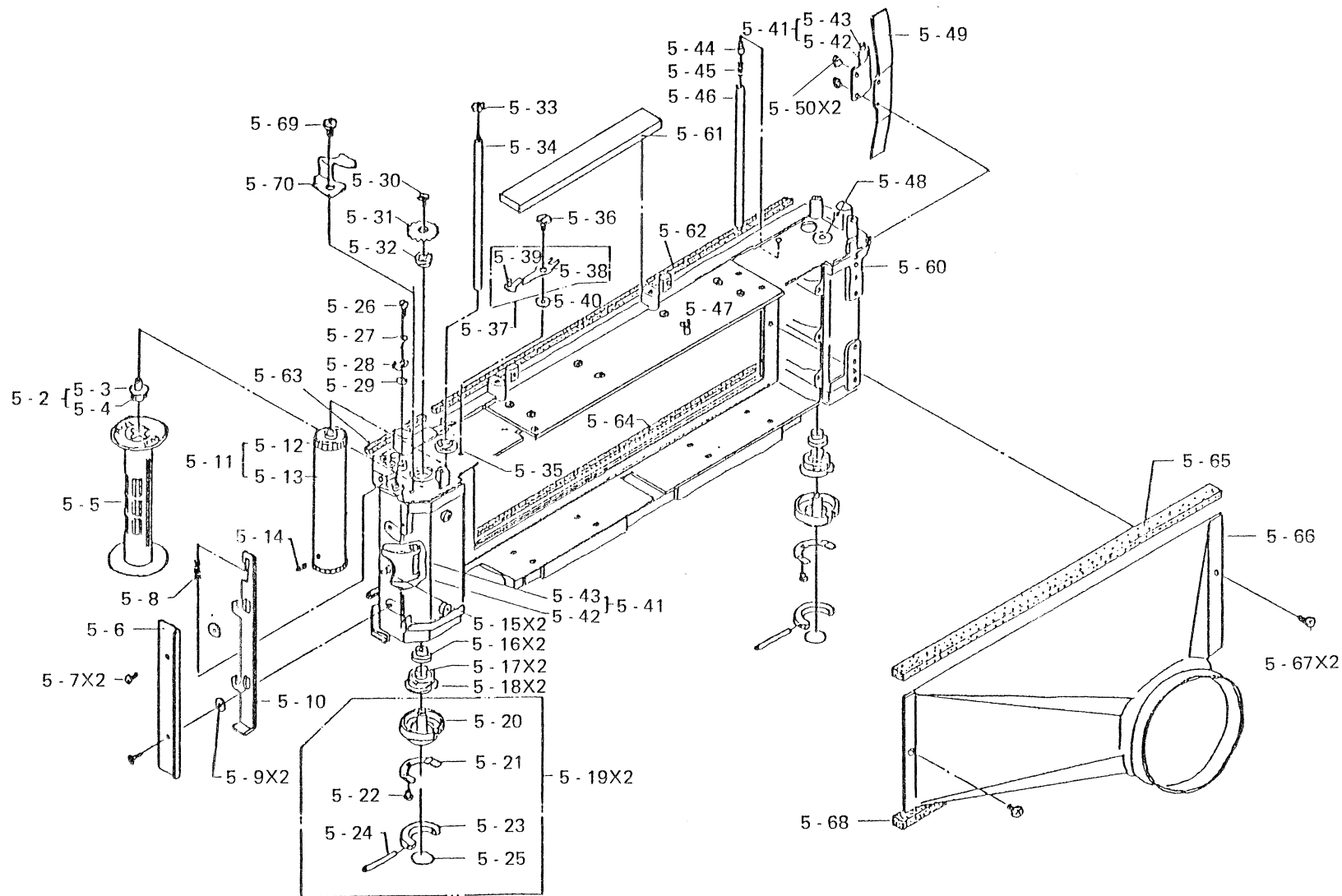


Fig. 5

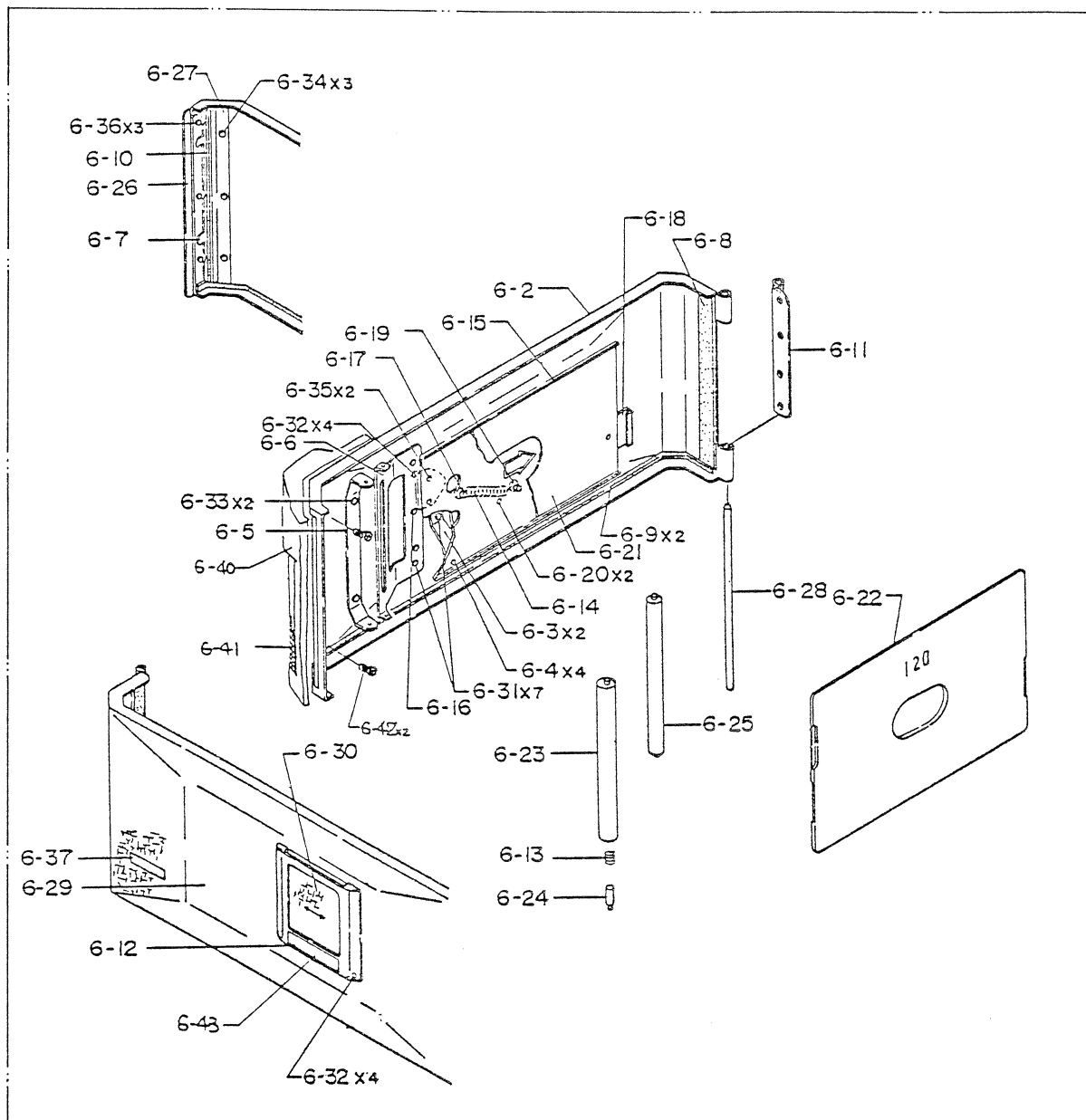
REF NO.	PART NO.	PART NAME	Q'TY	REMARKS
5 - 1	301A3771190	Chassis assembly	1	
5 - 2	22A720040	Take - up shaft assembly	1	GW 690
5 - 5	37B29490	Spool	1	GW 690
5 - 6	85B486990	Base plate	1	GW 690
5 - 7	111M170451S	Screw	2	GW 690
5 - 8	50B30941	Spring	1	GW 690
5 - 9	30B30950	Hook guide	12	GW 690
5 - 10	45B2190080	Camera back hook	1	GW 690
5 - 11	36A720060	Exposure counter drum assembly	1	GW 690
5 - 14	120M200503B	Screw	1	GW 690
5 - 16	32B2190060	Take - up spool holder	2	GW 690
5 - 17	50B307711	Spring	2	GW 690
5 - 18	31B30700	Shaft holder	1	GW 690
5 - 19	29A2190940	Take - up spool knob assembly	1	GW 690
5 - 26	32B30750	Shaft	1	GW 690
5 - 27	50B1070	Spring	1	GW 690
5 - 28	45B1060	Hook	1	GW 690
5 - 29		Wahser	1	GW 690
5 - 30	53B30721	Screw	1	GW 690
5 - 31	34B2190100	Take - up gear	1	GW 690
5 - 32	31B30220	Exposure counter drum shaft holder	1	GW 690
5 - 33	34B2190090	Exposure counter drum drive wheel	1	GW 690
5 - 34	32B486752	Exposure counter drum shaft	1	GW 690
5 - 35	23B2190030	Guide ring	2	GW 690
5 - 36	53B2190150	Screw	1	GW 690
5 - 37	47A2190950	Lock lever assembly	1	GW 690
5 - 40	55B2190140	Washer	1	GW 690
5 - 41	50A720000	Roller assembly	2	GW 690
5 - 44	17B30160	Pin	1	
5 - 45	50B30170	Spring	1	GW 690
5 - 46	30B30150	Guide roller	1	GW 690
5 - 47	53B2190110	Screw	1	GW 690

Fig. 5



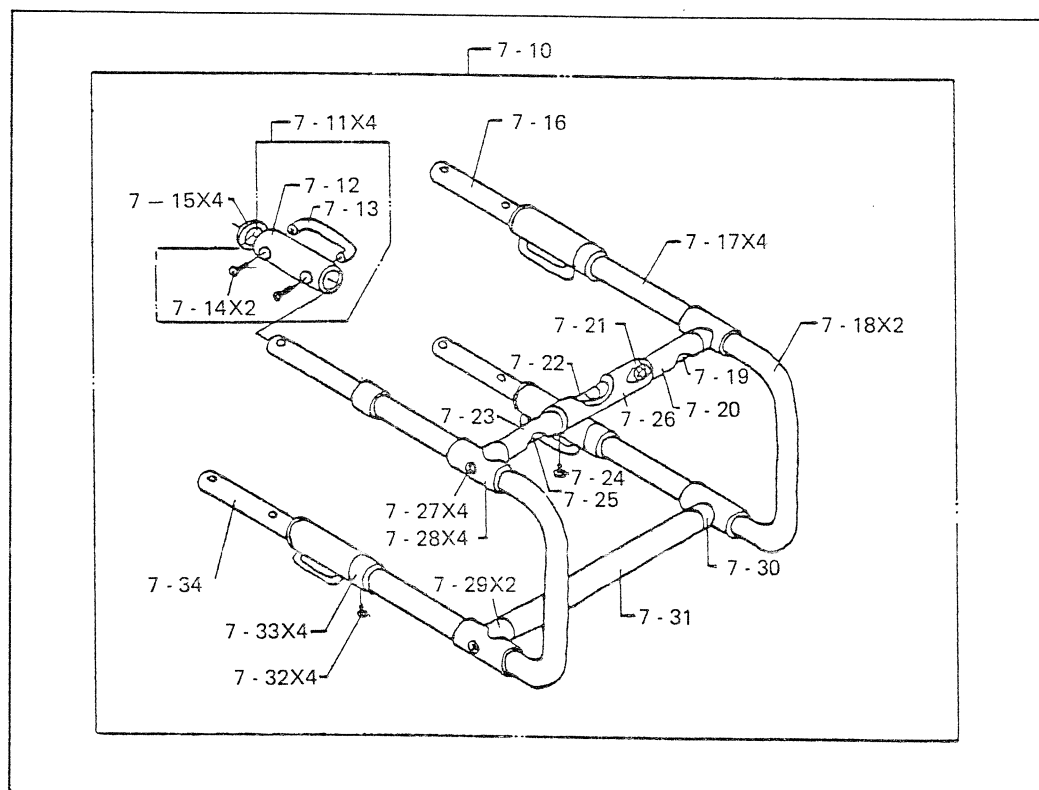
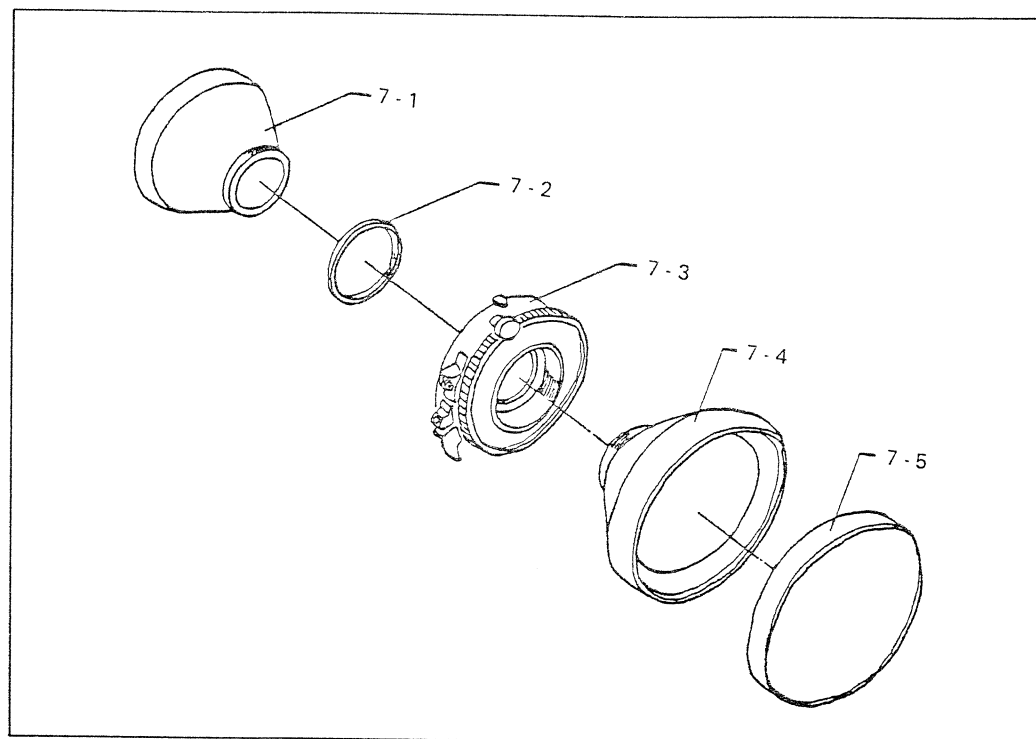
REF NO.	PART NO.	PART NAME	Q'TY	REMARKS
5 - 49	50B486960	Pressure spring	1	
5 - 50	170M15025L	Pin	2	
5 - 61	27B3771030	Moquette	1	
5 - 62	27B31790	Moquette	1	
5 - 63	27B31790	Moquette	1	
5 - 64	27B31790	Moquette	1	
5 - 65	27B377020	Moquette	1	
5 - 66	27B3771211	Hood	1	
5 - 67	110M170353S	Screw	2	
5 - 68	27B3771020	Moquette	1	
5 - 69	110M200203S	Screw	1	
5 - 70	50B2190211	Spring	1	

Fig. 6



REF NO.	PART NO.	PART NAME	Q'TY	REMARKS
6 - 1	302A3772192	Camera back assembly	1	
6 - 8	27B31780	Moquette	1	GW 690
6 - 9	27B31790	Moquette	2	GW 690
6 - 10	27B32000	Moquette	1	GW 690
6 - 11	19B32020	Hinge	1	GW 690
6 - 13	50B30170	Spring	1	GW 690
6 - 14	50B94640	Spring	1	GW 690
6 - 21	51B3772310	Velveteen	1	
6 - 22	44B3772330	Pressure plate	1	
6 - 23	37B492630	Roller	1	GW 690
6 - 24	17B492640	Moving pin	1	GW 690
6 - 25	37B492660	Roller	1	GW 690
6 - 28	32B32031	Hinge shaft	1	GW 690
6 - 29	59B3772370	Leather	1	
6 - 30	58B3287210	Cover plate	1	GS 645
6 - 40	46B3772341	Grip	1	
6 - 41	59B3772380	Leather	1	
6 - 42	110M20030S	Screw	2	
6 - 43	58B3772350	Name plate	1	

Fig. 7



REF NO.	PART NO.	PART NAME	Q'TY	REMARKS
7 - 1	21A3772480	Rear lens assembly	1	
7 - 2	23B2188620	Shutter tightening ring	1	
7 - 3	38A3772470	Shutter assembly	1	
7 - 4	21A3772511	Front lens assembly	1	
7 - 5	300M085N	Lens cap	1	
7 - 10	18A3770510	Lens protector assembly	1	
7 - 11	41A3770830	Strap eyelet assembly	4	
7 - 12	41B3770580	Strap eyelet holder	4	
7 - 13	41B3770590	Strap eyelet	4	
7 - 14	111M170301N	Screw	8	
7 - 15	23B3770860	Ring	4	
7 - 16	18B3770840	Arm (right)	1	
7 - 17	172B3770890	Rubber tube	4	
7 - 18	172B3770870	Rubber tube	2	
7 - 19	15B3770570	Stay (top)	1	
7 - 20	172B3770900	Rubber tube	1	
7 - 21	110M170301S	Screw	1	
7 - 22	164B3770760	Level vial	1	
7 - 23	172B3770900	Rubber tube	1	
7 - 24	120M170302S	Screw	1	
7 - 25	15B3770790	Stay	1	
7 - 26	12B3770770	Level vial case	1	
7 - 27	112M201001S	Screw	4	
7 - 28	41B3770810	Joint	1	
7 - 29	23B3770920	Ring	1	
7 - 30	15B3770800	Stay (bottom)	1	
7 - 31	172B3770870	Rubber tube	1	
7 - 32	112M200601S	Screw	4	
7 - 33	25B3770820	Stopper	4	
7 - 34	18B3770850	Arm (left)	1	