

Mamiya

SERVICE INSTRUCTIONS

for

Mamiya RB67
PRO S

MMRB67SSI


Mamiya
CAMERA CO., LTD.

TOKYO, JAPAN

S.I.81-2-RB67S

T R O U B L E S H O O T I N G

Before repairing, refer to page 39 Special pointers on Using the Mamiya RB67 Pro-S of INSTRUCTIONS.

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<u>Defect</u>	<u>Possible cause</u>	<u>Reference page</u>
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<u>Defect</u>	<u>Possible cause</u>	<u>Reference page</u>
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Camera Body

1. Removing and attaching methods for the relative parts of Right and Left panels

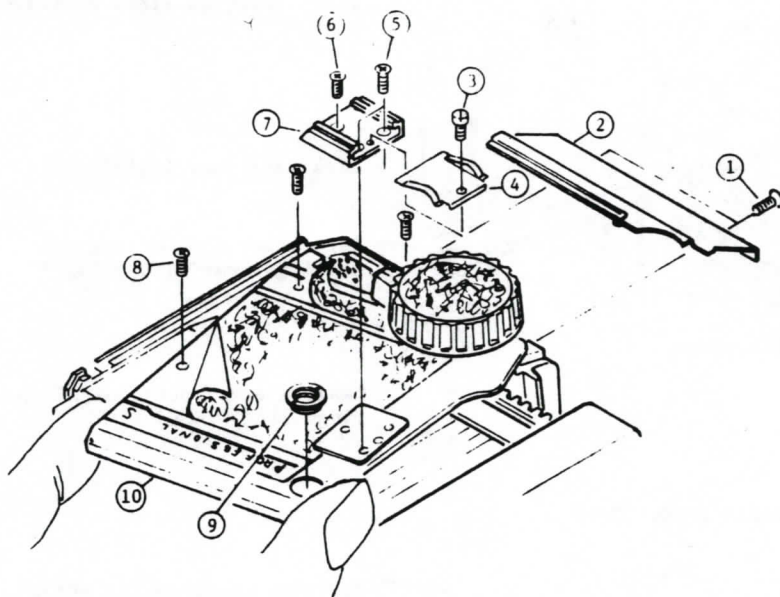


Fig.1

1-1 Right panel (aRS1631)

- (1) The arabic numeral in a circle indicates the procedure of removing.
- (2) Slide Right panel forward, then pull out upward as shown in Fig.1.

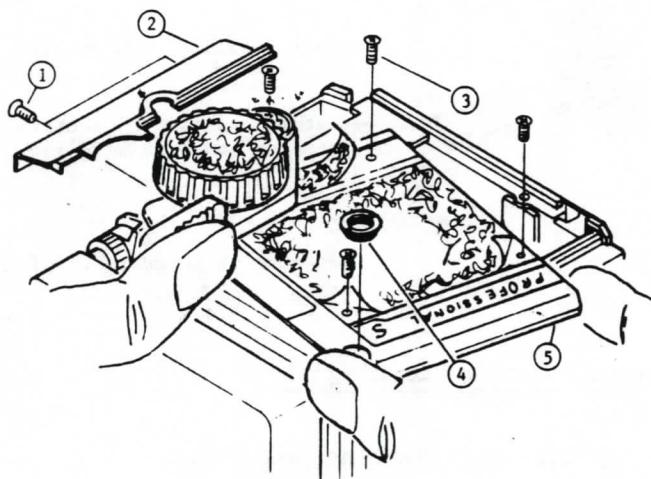


Fig.2

1-2 Left panel (aRS1641)

- (1) The arabic numeral in a circle indicates the procedure of removing.
- (2) Press down the cocking lever and slide Left panel forward, then pull out upward as shown in Fig 2.

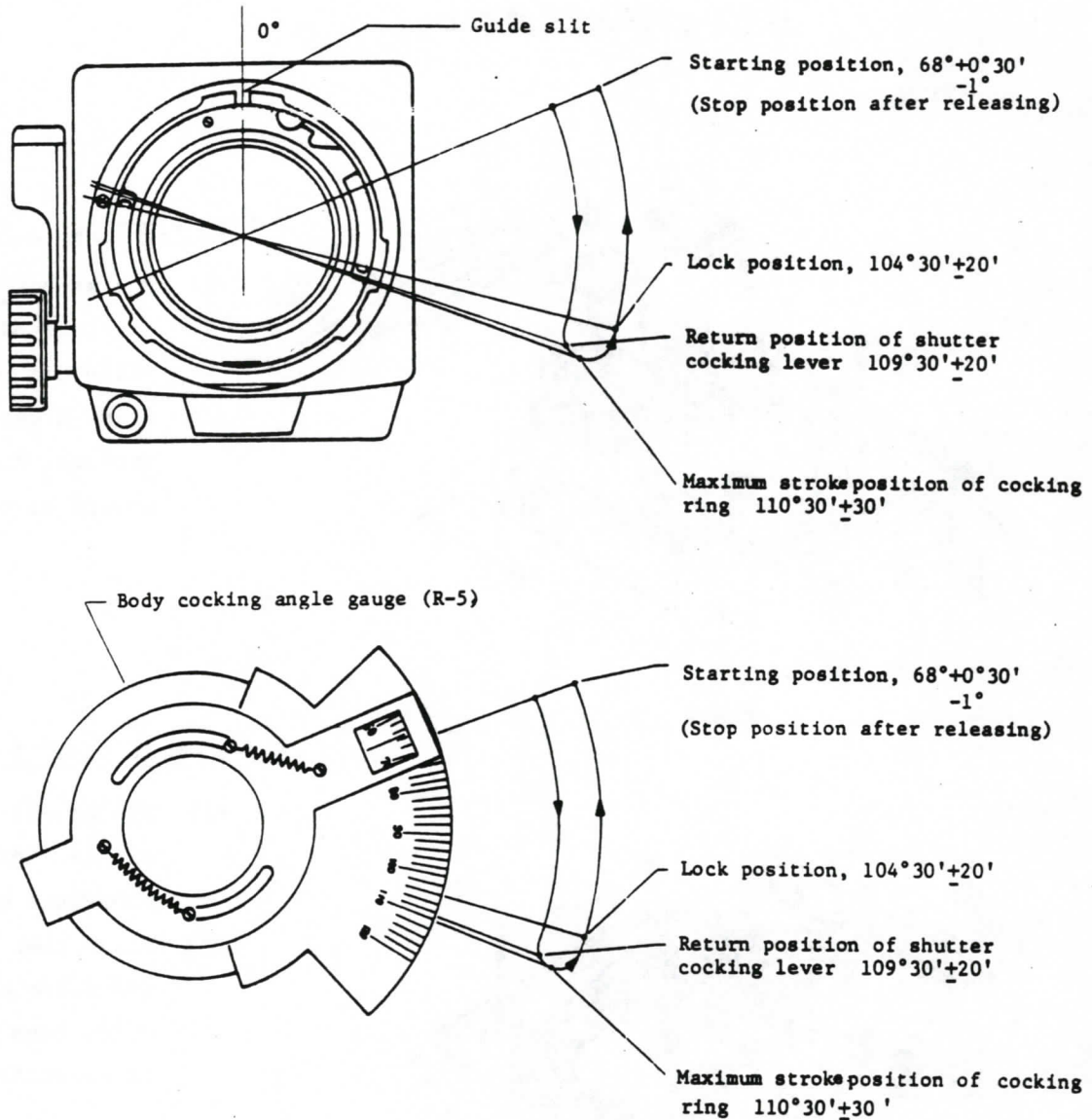
1-3 Attaching

- (1) Attach Right and Left panels in the reverse order of the arabic numeral in a circle.

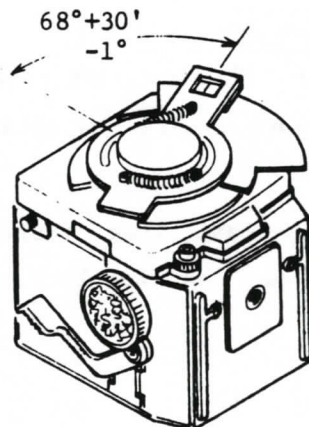
* Light baffle plate, lower (RS1134) should be placed on Light baffle plate, upper (RS1133).

2. Operating shutter cocking ring, shutter release and mirror raising mechanism

2-1 Operating standard for Body cocking ring



2-2 Checking the operating position of shutter cocking ring



a) Checking starting position

1. Press the shutter release button.
(Mirror and Light baffle plate snap up.)
2. Check it turning lightly the tip of the gauge lever with the fingers.

Fig.5

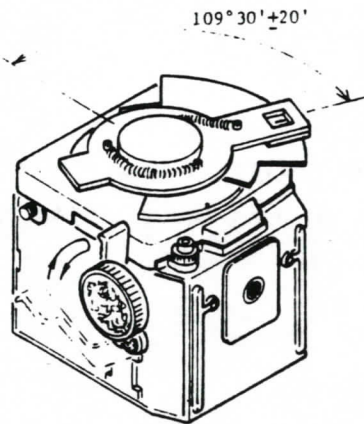


Fig. 6

b) Checking return position

1. While turning the tip of the gauge lever with the fingers counterclockwise, press down the shutter cocking lever gradually until the scale of the gauge indicates 109° ; then release the fingers.
The shutter cocking lever does not return to the original position if the release position is inside the standard.
2. Operate as in 1 until the scale shows $109^\circ 50'$!
The shutter cocking lever returns to the original position if the release position is inside the standard.

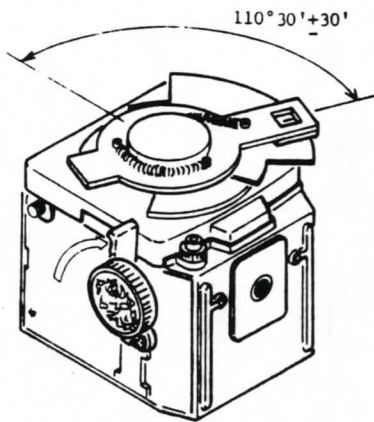


Fig. 7

c) Checking stroke allowance

Check it where the shutter cocking lever is fully pressed down while turning the tip of the gauge lever with the fingers counterclockwise.

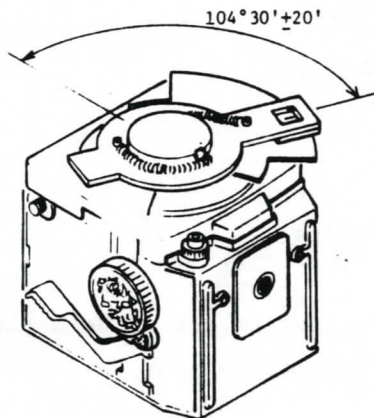


Fig. 8

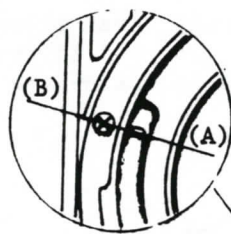
d) Checking lock position

After setting the mirror and returning the shutter cocking lever, check it turning the tip of the gauge with the fingers counterclockwise.

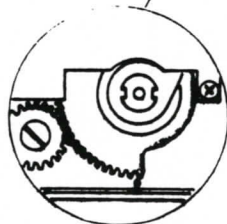
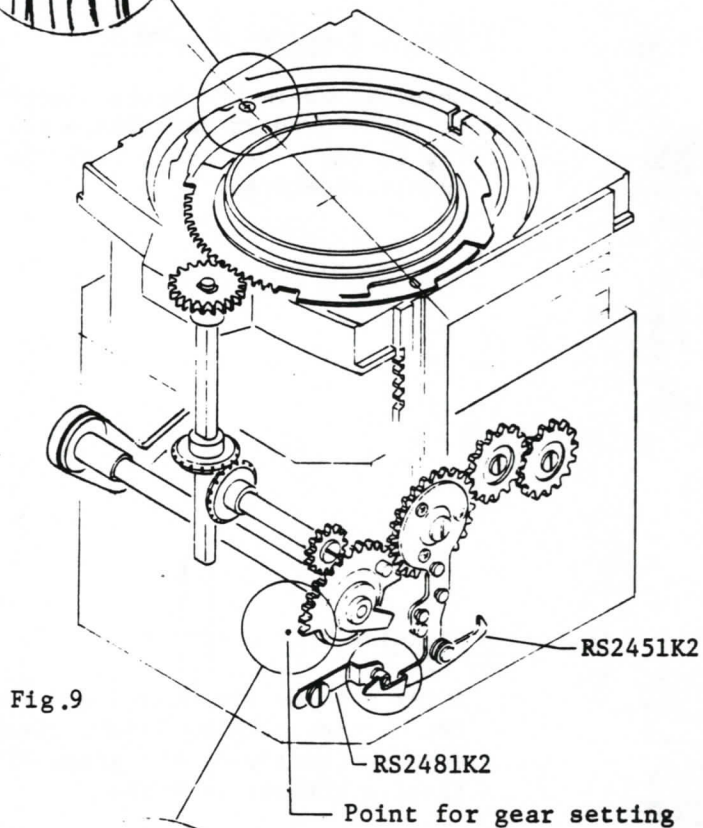
2-3 Adjusting the position of Shutter cocking ring

a) Standard gear meshing position of cocking ring at lock position

Standard gear meshing position is as shown in Fig. 9 when Mirror raising lever (RS2451K2) is hooked on Hang lever (RS2481K2) after setting the mirror.



Coupling hole (A) of the cocking ring comes to almost the same position of the set screw (B) of the bayonet.



Gear setting point must be set between first and second tooth of cocking gear.

b) Adjusting lock position

- (1) Adjust the lock position ($104^{\circ}30' + 20'$) of cocking ring by sliding mirror raising lever after loosening three Screws (3PB1.7x2.5).

Use Body cocking angle gauge (R-5) to adjust the lock position as shown in Fig. 10.

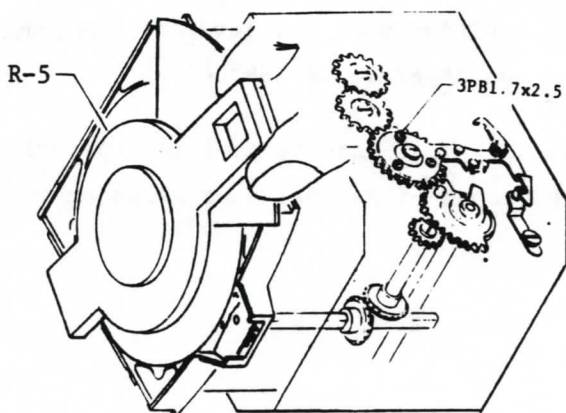


Fig.10

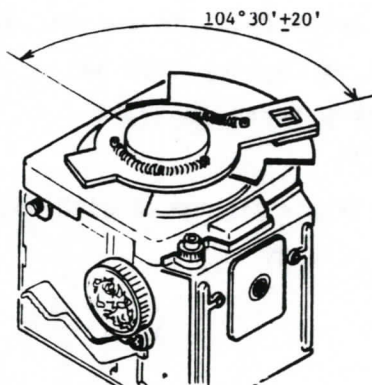


Fig.11

- (2) In case the above method fails to adjust, change the meshing point between the gear of Cocking shaft and Cocking ring by one tooth after removing Catch plate (RS2144) as shown in Fig. 12.

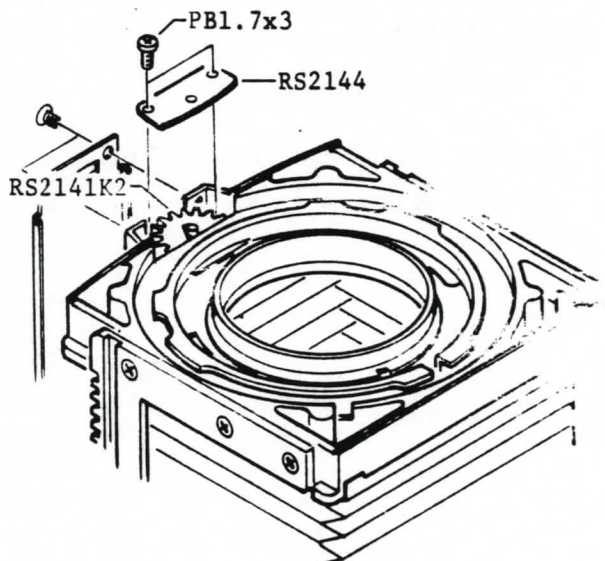


Fig.12

C) Adjusting return position of Shutter cocking lever

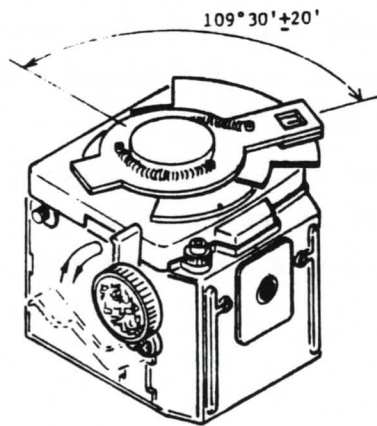


Fig. 13

- (1) Shutter cocking lever shall return to the original position when the lever of the gauge comes to the standard of $109^{\circ}30' \pm 20''$.

At this position, Ratchet pawl is separating from the tooth of Ratchet gear as shown in Fig. 14.

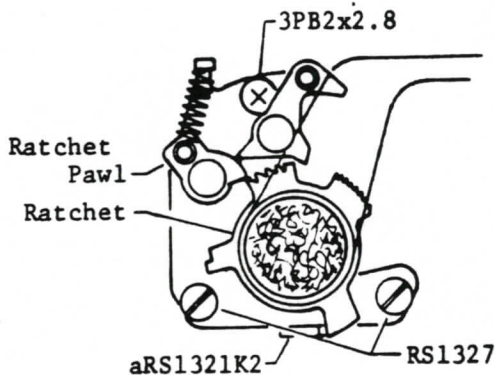


Fig. 14

- (2) In case the lever fails to return, adjust the position of Cocking base plate (aRS1321K2) after loosening Screw (RS1327) and (3PB2x2.8BN1).

Screw (RS1327) is tightened with Nut from inside of the body.

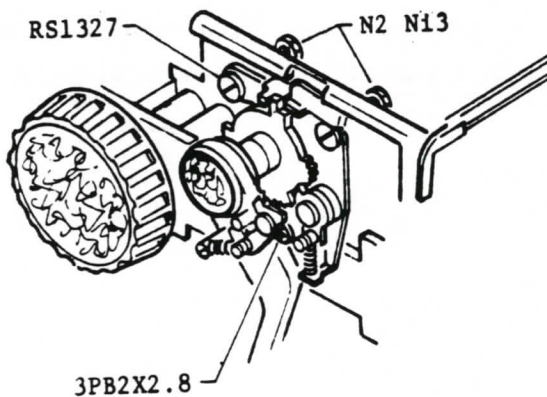


Fig. 15

* In case the return position exceeds more than $109^{\circ}50'$, Cocking lever may not return.

* When it shows less than $109^{\circ}10'$, shutter does not cock.

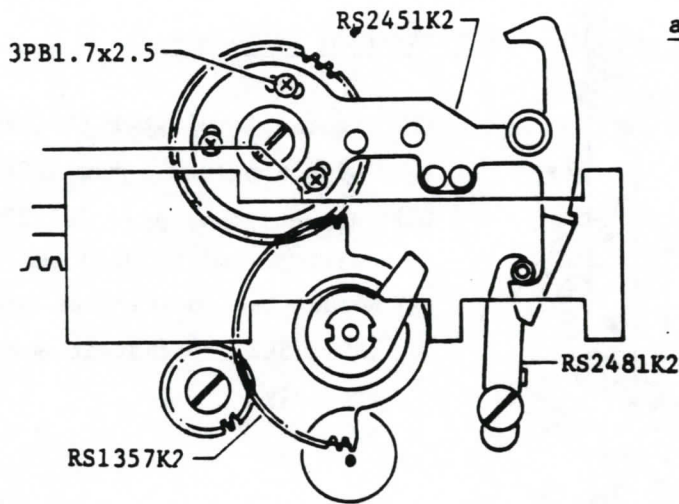


Fig.16

a) Wheel setting and mirror raising lever

Align the space between the first and second tooth of Cocking gear (RS1357K2) with the point for gear setting when Mirror raising lever (RS2451K2) is hooked on Hang lever (RS2481K2).

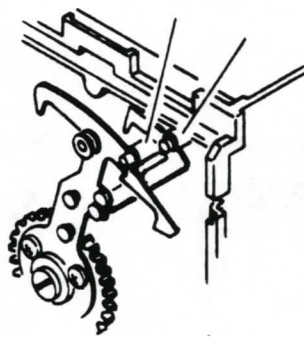


Fig.17

b) Adjusting pin for mirror holder and Light baffle plate

Operate Mirror raising lever (RS2451K2) and Light baffle plate lever (RS2475K2) with the fingers as shown in Fig. 17. These levers shall operate smoothly. Mirror and Light baffle plate shall be free from play when they are raised. Adjust play by bending pin for Mirror holder and Light baffle plate.

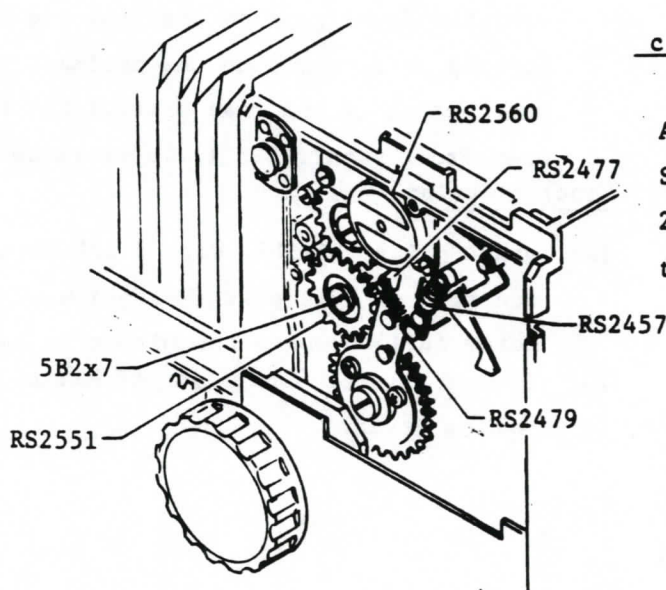


Fig.18

c) Attaching Governor

Attach Spring (RS2457), Collar (RS2477), Spring (RS2479), Governor (RS2560K2) and 2 pieces of Gear (RS2551) in order; then tighten 2 pieces of Screw (5B2x3) securely.

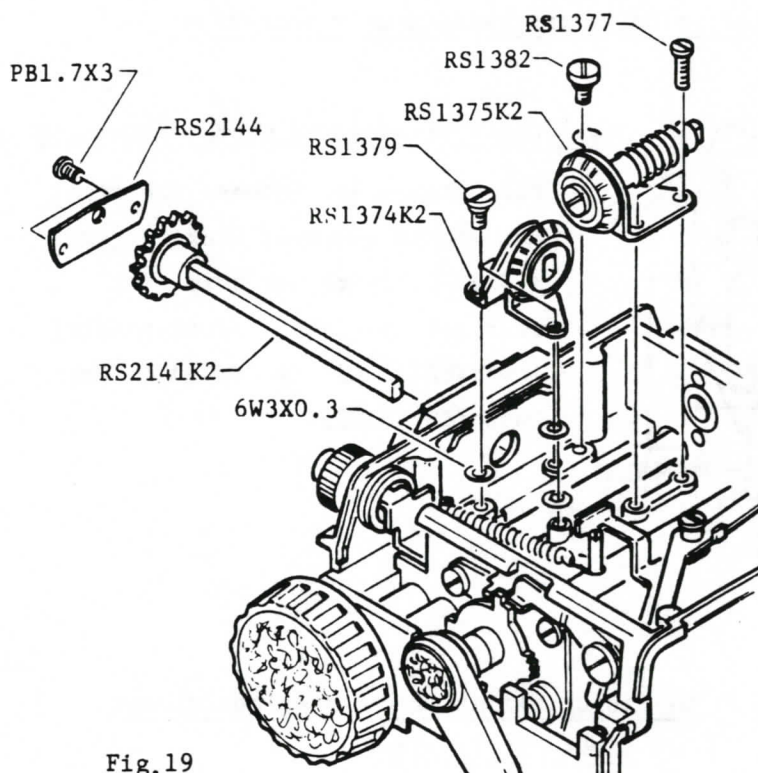


Fig.19

d Attaching Bevel gear

- (1) Tighten Bevel gear (RS1374K2) with Shoulder screw (RS1379).
- (2) Attach Bevel gear (RS1375K2) with Screw (RS1377) and (RS1382).
- (3) Adjust the position of Bevel gear (RS1375K2) so that it moves smoothly.

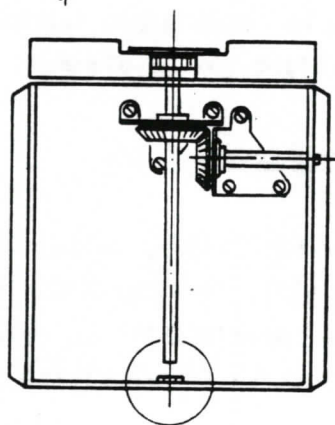
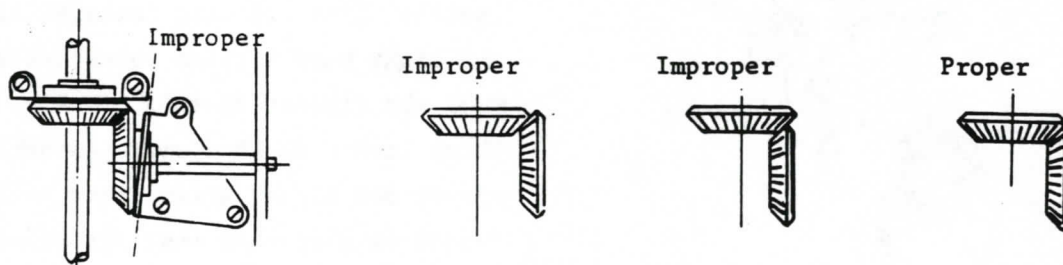


Fig. 20

e) Attaching Cocking shaft

- (1) Attach Cocking shaft (RS2141K2).
- (2) Position Bevel gear so that the end of Cocking shaft comes to the position of Nut located at the rear part of the body when Front panel(RS2111) is retracted.

f) Winding Spring

- (1) Wind Spring (RS1381) with 2 1/4 turns and tighten Idle gear (RS1361) with Screw (RS1368) when the mirror is raised.
- (2) Check the smooth operation of Mirror raising lever.

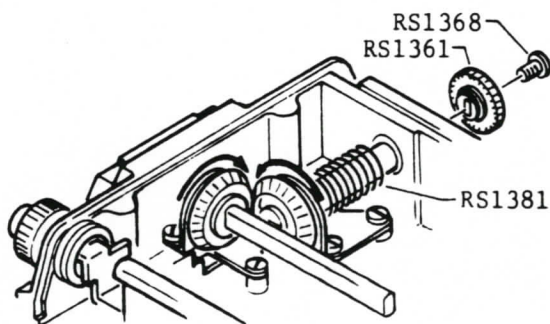


Fig.21

g) Attaching Cocking ring (RS2133)

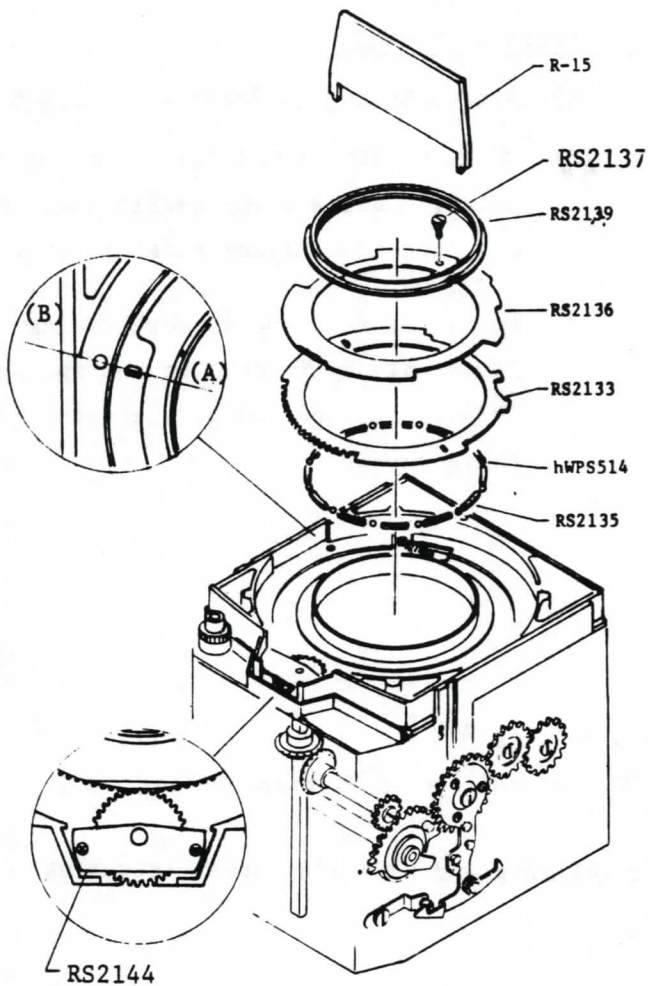


Fig 22

- (1) Mirror raising lever is hooked on the hang lever .
- (2) Coupling hole (A) of the cocking ring nearly coincides with the bayonet setscrew (B) as shown in Fig. 22.
- (3) Position Catch plate so that the gear of the cocking shaft (RS2141K2) mesh well.

h) Check operations of gear relation

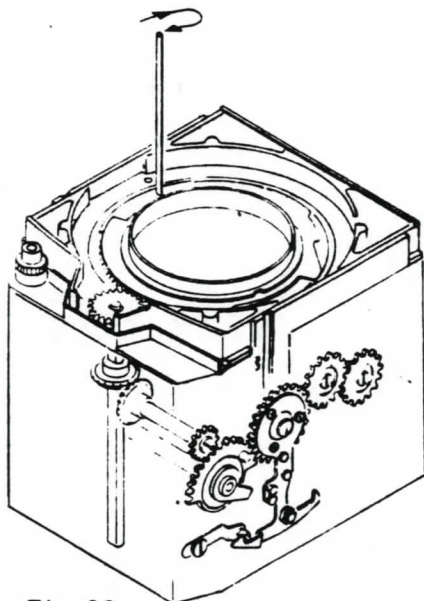


Fig 23

- (1) Mirror raising lever is hooked on the lever.
- (2) Insert a driver into the hole of the cocking ring and move clockwise. Confirm that the cocking ring returns to its original position when gently releasing it as shown in Fig. 23.
- (3) At original position, Cocking ring shall not move counter-clockwise.

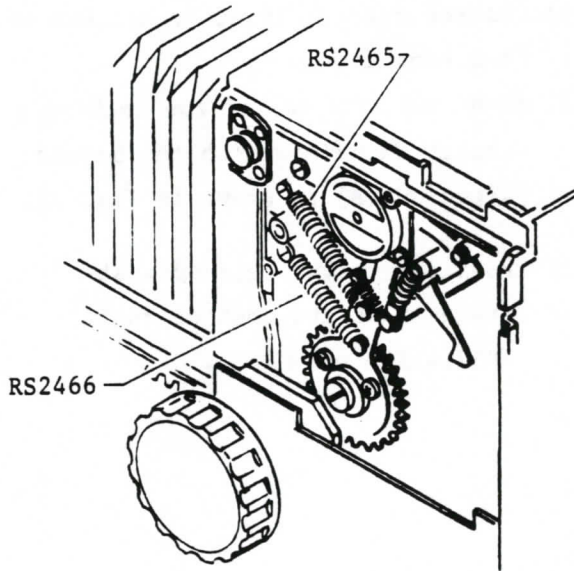


Fig.24

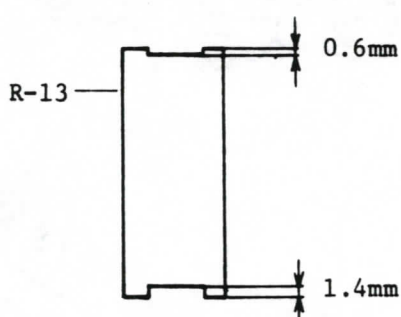
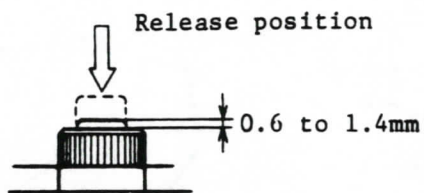
1) Attaching Spring

- (1) Attach Spring (RS2465) and (RS2466).
- (2) Check raising condition of the mirror holder and the light baffle plate by operating the mirror raising lever.

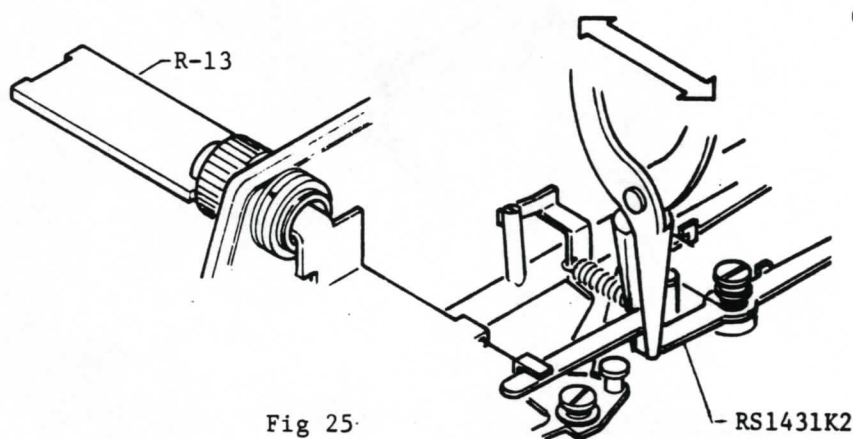
* Do not operate the mirror raising lever only by installing the spring (RS2465, RS2466) without attaching the governor.

- Note :
- (1) Refer to attaching Bayonet 7-1 b
 - (2) Refer to Adjusting the position of Shutter cocking ring 2-3 a,b and c.
 - (3) Check the shutter charging and releasing after attaching lens to the body.

3. Release position of shutter button

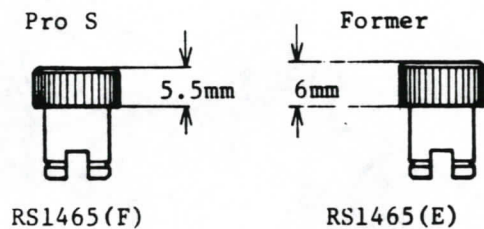


- (1) Use Shutter release button check gauge (R-13) to check whether shutter release button can be released at 0.6mm side and can not be released at 1.4mm side.



- (2) Adjust the release position by bending Release lever (RS1431K2) with a pincers.

Fig 25



NOTE:

There are 2 kinds of Locking hub (RS1465).
 Type (F) for RB67 Pro-S
 Type (E) for RB67 only.

4 Resetting prevention mechanism of Cocking lever

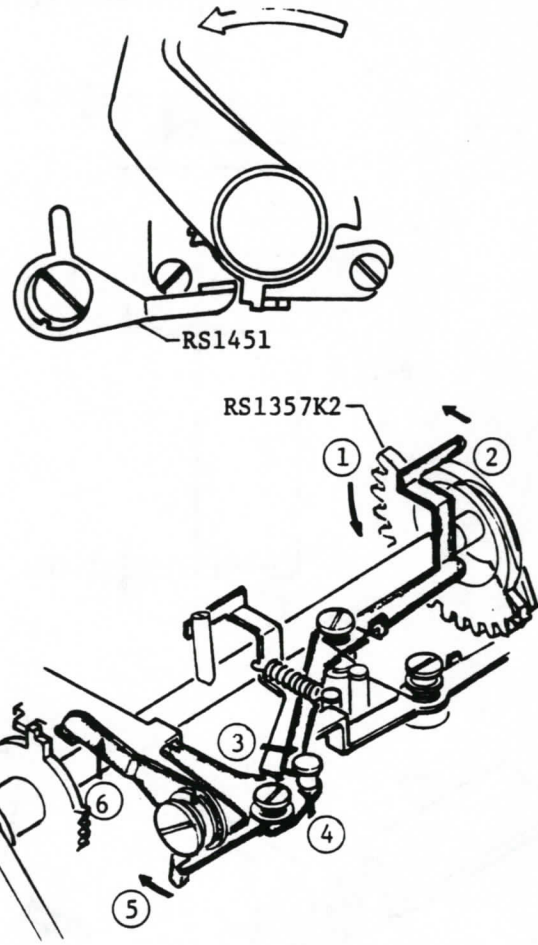
4-1 Operation mechanism

a) Resetting prevention and release

When Shutter cocking lever is pressed down and returned to its original position, Stop lever (RS1451) shall prevent Cocking lever from resetting.

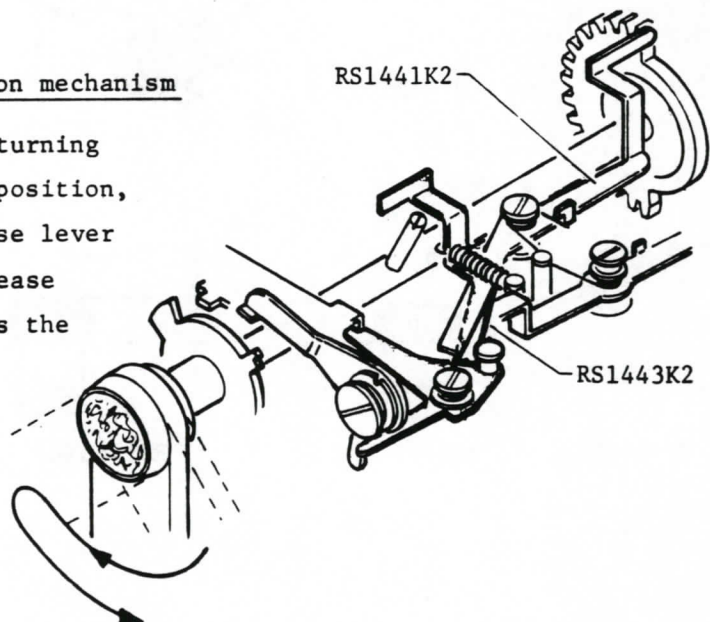
When Shutter button is released, Cocking gear (RS1357K2) turns and relative parts operate in the order of numerals in a circle as shown by the arrow in Fig. 27.

Then Stop lever comes off from Ratchet plate, and Cocking lever can be reset.



b) Shutter release prevention mechanism

When Cocking lever is returning halfway to its original position, operation of Lower release lever (RS1443K2) and Upper release lever (RS1441K2) prevents the shutter button from releasing.



4-2 Adjusting procedure

a) Clearance between Stop lever and Ratchet plate after shutter setting

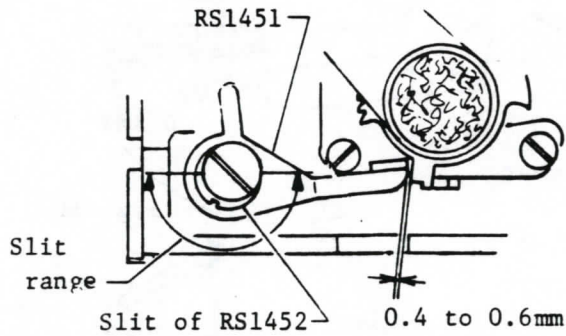


Fig. 29

After setting Shutter cocking lever, clearance between the edge of Stop lever (RS1451) and Ratchet plate shall be kept approximately 0.4 to 0.6mm. (Fig. 29)

Clearance can be adjusted by turning Eccentric hub (RS1452).

The slit of Eccentric hub is placed within a range as shown by the arrow. (Fig. 29)

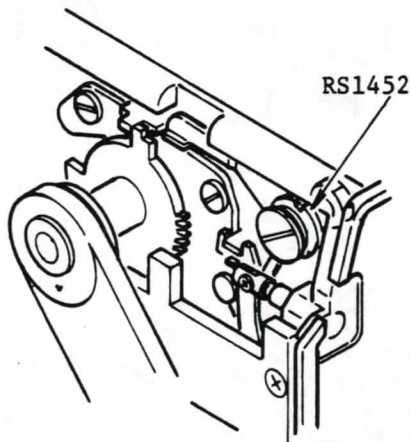


Fig. 30

* After finishing adjustment, Shoulder screw is tightened with a nut inside of the body and glued by adhesive (DB Bond).

- NOTE:
1. Shutter button may not release when Cocking lever is returned rapidly exceeding the clearance of less than 0.4mm.
 2. Shutter button may not release by a slight touch with a finger on Cocking lever forward exceeding the clearance of more than 0.6mm.

b) Clearance between Stop lever and Ratchet plate ,
when starting shutter setting

Above clearance shall be kept 0.3 to 0.5mm,
 when shutter cocking lever starts to set.

(Fig. 31)

Adjustment can be done by bending the edge of
 Stop lever (RS1421K2) with a pincers. (Fig. 32)

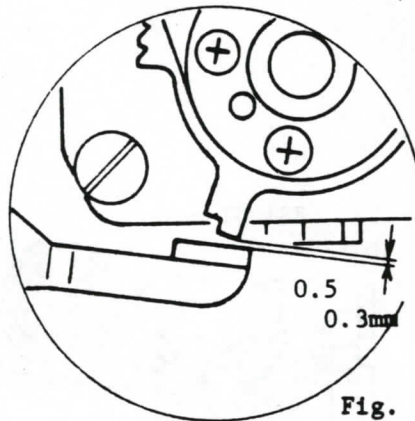


Fig. 31

* When clearance is very little, Cocking lever
 may not be pressed down perfectly.

* When exceeding more than 0.5mm, Cocking
 lever may stop half-way with a bounce and
 shutter button can not be released due
 to the followings.

Ratchet plate springs up before Stop
 lever puts in Ratchet plate.

Consequently Ratchet plate is caught by
 Ratchet pawl.

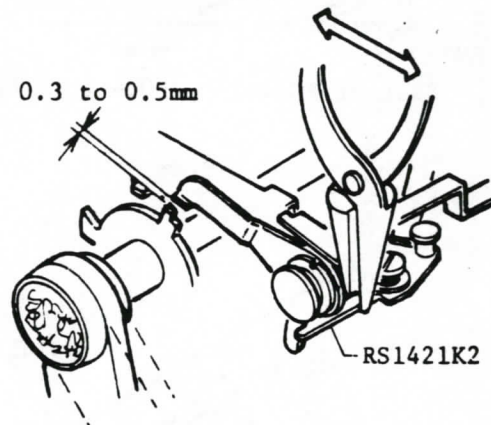


Fig. 32

c) Adjusting Upper release lever (RS1441K2)
after shutter setting

Adjust the clearance between Stop
 lever (RS1421K2) and Upper release
 (RS1441K2) lever by bending the edge of
 Upper release lever with a pincers so
 as to keep 0.5 - 1mm. (Fig. 34)

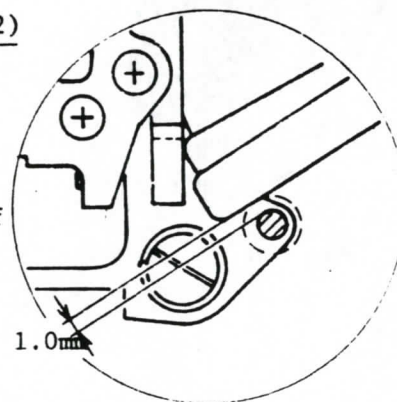


Fig. 33

* After adjusting, confirm the clearance
 between Stop lever and Ratchet plate
 by releasing Shutter button.

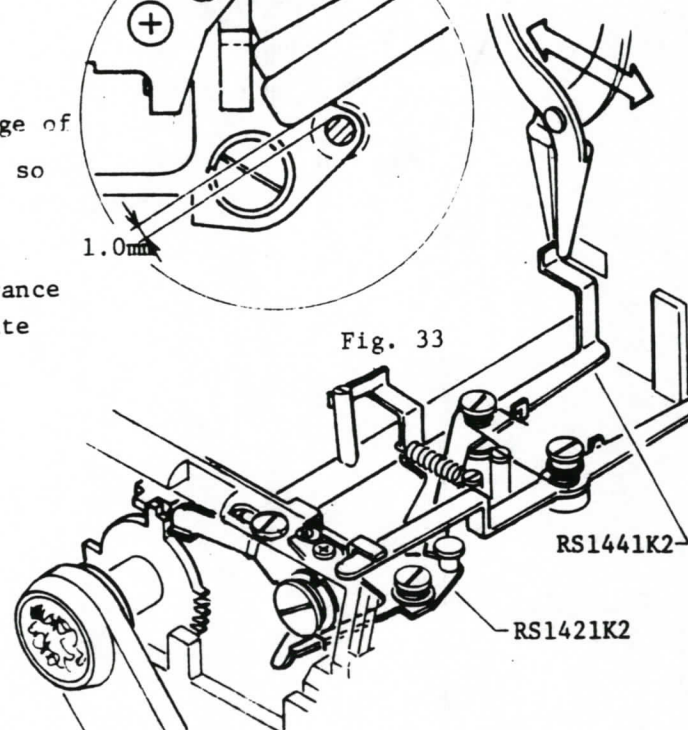


Fig. 34

Note: Difference of adjusting method between former RB67 and RB67 Pro-S.

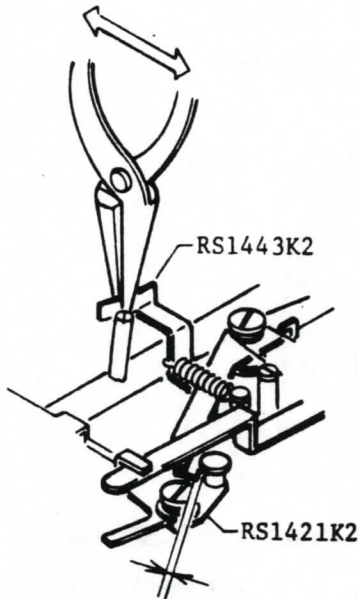


Fig .35

RB67 (Former model)

After setting shutter cocking lever, bend the edge of the Lower release lever (RS1443K2) to keep the clearance of 1 to 2mm from the pin of Stop lever (RS1421K2) by using a pincers as shown in Fig 35.

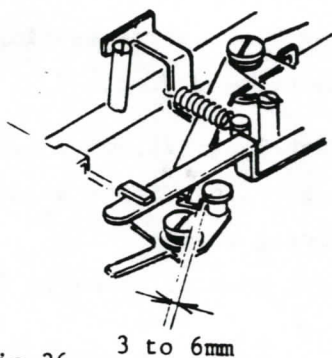
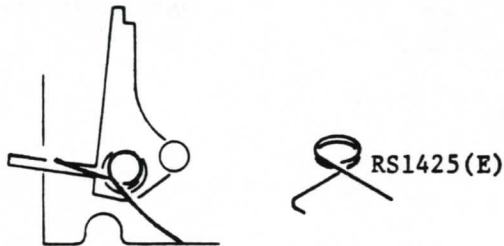
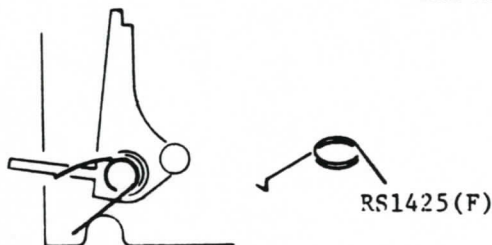


Fig. 36

RB67 Pro-S

No Adjustment is needed for Lower release lever.
(Lower release lever is kept approximately 3 to 6mm from the pin of Stop lever.

- * Two types of Spring (RS1425) available
RS1425(E) for RB67 (Former model)
RS1425(F) for RB67 Pro-S



5 Replacing Mirror holder and Light baffle plate

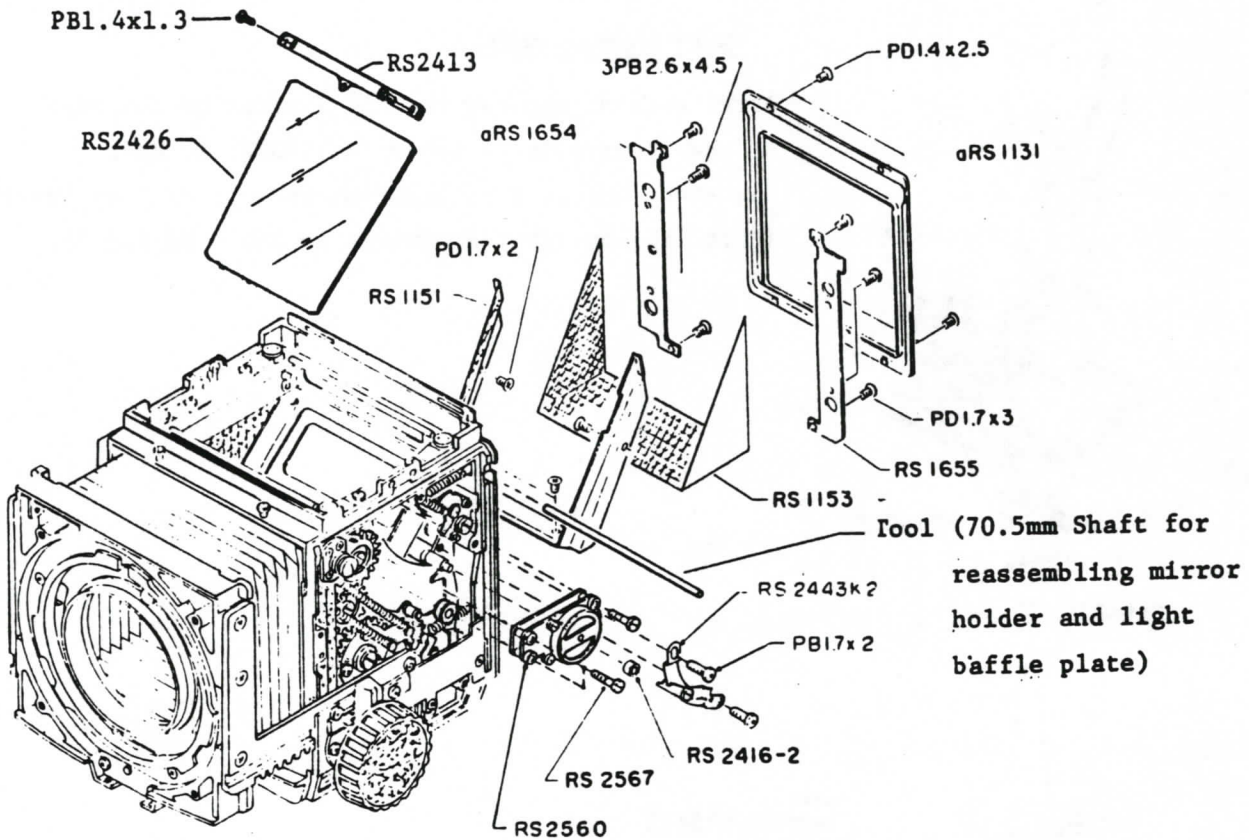


Fig 37

5-1 Removing

- (1) Remove above parts keeping Mirror being pressed down.
- (2) Insert Tool (71.5mm shaft) for reassembling Mirror holder before removing them.
- (3) Remove them as shown in Fig. 38.

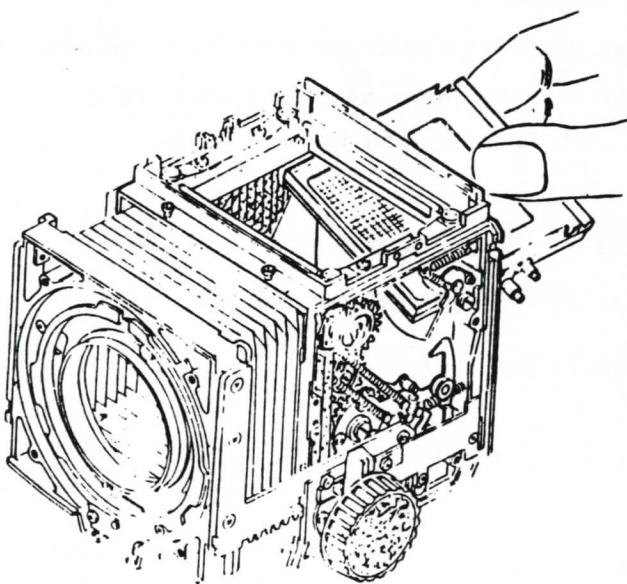


Fig 38

5-2 Attaching

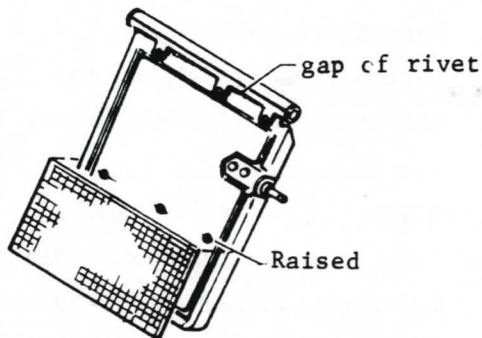


Fig. 39

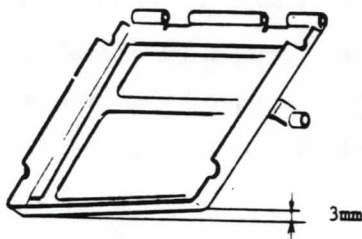


Fig.40

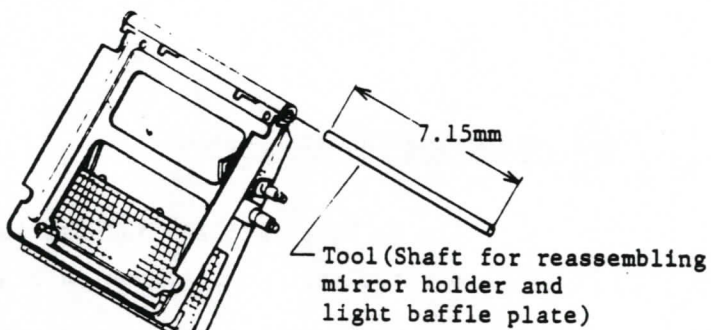


Fig.41

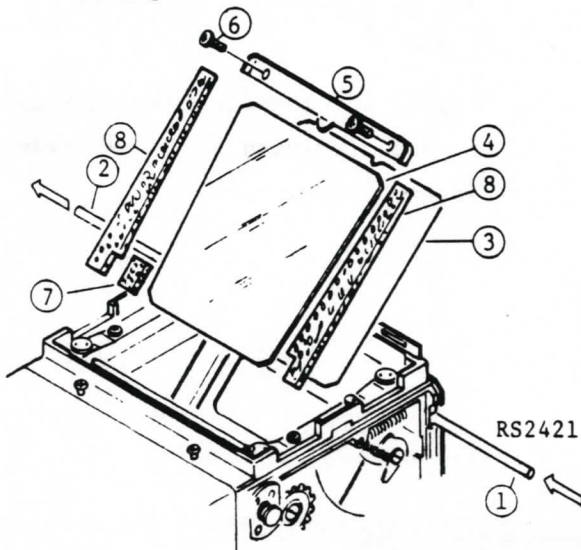


Fig.42

- (1) Fill up gap of rivetted Light baffle plate by glue (DB Bond), and paint mat lacquer.
- (2) The upper end of the mirror curtain is placed to set 3 raised marks.
- (3) In order to keep the parallel of Mirror holder, the left side of the Mirror holder is bent about 3mm as shown in Fig.40.
- (4) Assemble in the reverse order of disassembly.
- (5) Replace shaft (RS2421).
- (6) Attach Mirror in the order of the numerals in a circle as shown in Fig. 42.
- (7) Mirror holder shall touch Stopper of both sides of the body.

6 Focusing track and focusing knob fixing lever

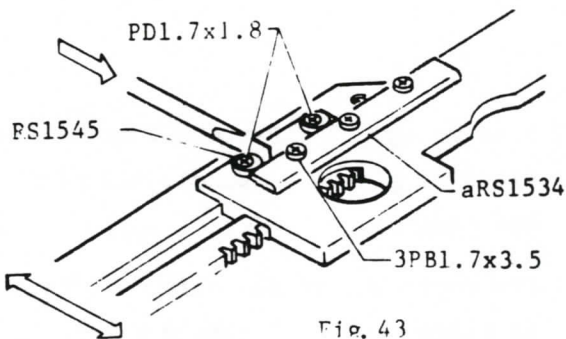


Fig. 43

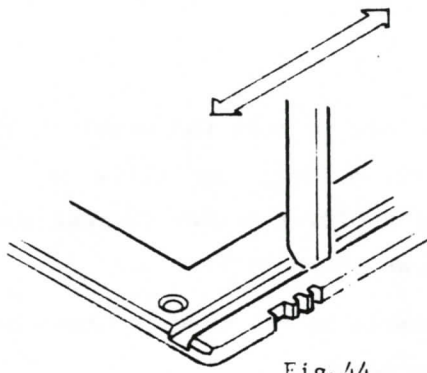


Fig. 44

6-1 Adjusting Rack plate

1. Extend the bellows.
2. Loosen Screw (3PB1.7x3.5).
3. Adjust the play and movement of the focusing track.
4. Tighten Screw (3PB1.7x3.5)
5. Support Screw (PD1.7x1.8BNi) with Eccentric collar (RS-1545) and tighten them.

NOTE: Use Screw lock to Screw (3PB1.7x3.5) and High lock S2 to Screw (PD1.7x1.8).

Before substituting Rack plate for new one, plane the edges of the groove by approximately 0.1mm. (Fig. 44)

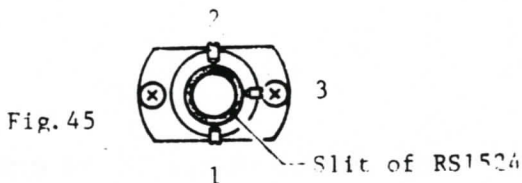


Fig. 45

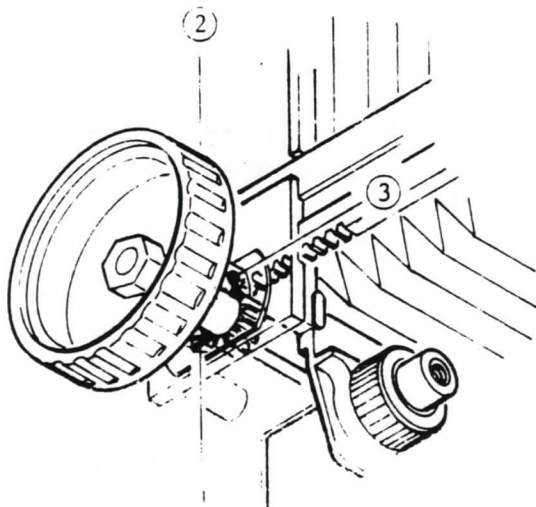


Fig. 46

6-2 Adjusting Focusing track

1. Slit of Pipe (RS1524) is positioned to the direction as shown in Fig.45.
2. Adjust the mesh for Pinion shaft and Rack plate by fixing screws ① and ②.
3. Adjust the longitudinal play and torque of Pinion shaft by fixing screw ③.

6-3 Adjusting Focusing knob fixing lever

Focusing knob fixing lever shall operate at approximately 45 degrees as shown in Fig.47.

Adjustment

1. Remove Focusing knob.
2. Use Washer (6Wx0.05, 0.1 and 0.2) to adjust the position of Focusing knob fixing lever.

Washer (6Wx0.1) changes the angle of Focusing knob fixing lever approximately 45 degrees.

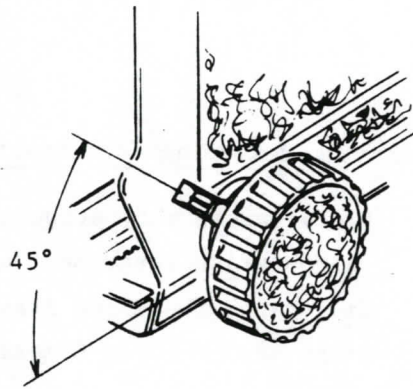


Fig.47

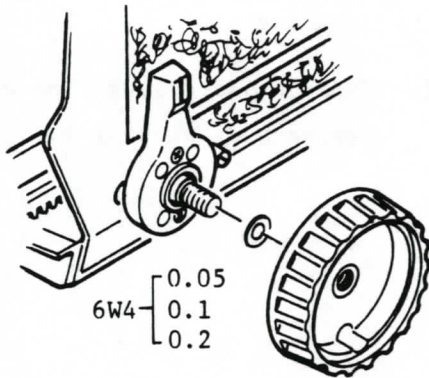


Fig.48

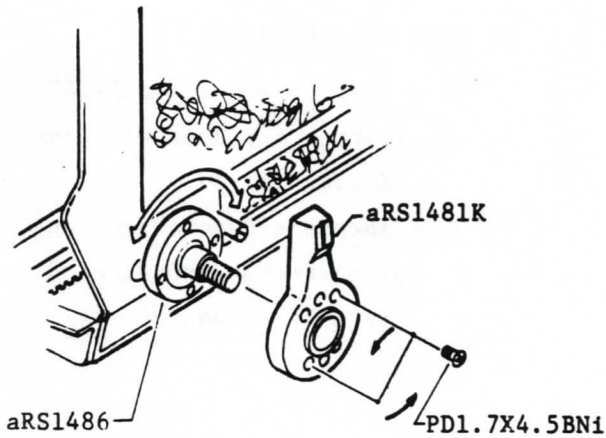


Fig.49

3. In case above method fails to adjust turn Setting ring (aRS-1486) or change the hole position of Setting lever (aRS-1481K2) after removing Screw (PD1.7x4.5BN1).

7 Body flange back and focus of view finder

7-1 Adjusting Body length

a) Setting Measuring Instruments

1. Place Camera body supporter (R-1) on Measuring instrument with dial gauge (U-1) and Standard gauge bar (R-2) on Camera body supporter (R-1).
2. Align the "0" on hand of dial with the hand.
3. Take Standard gauge bar off Camera body supporter.

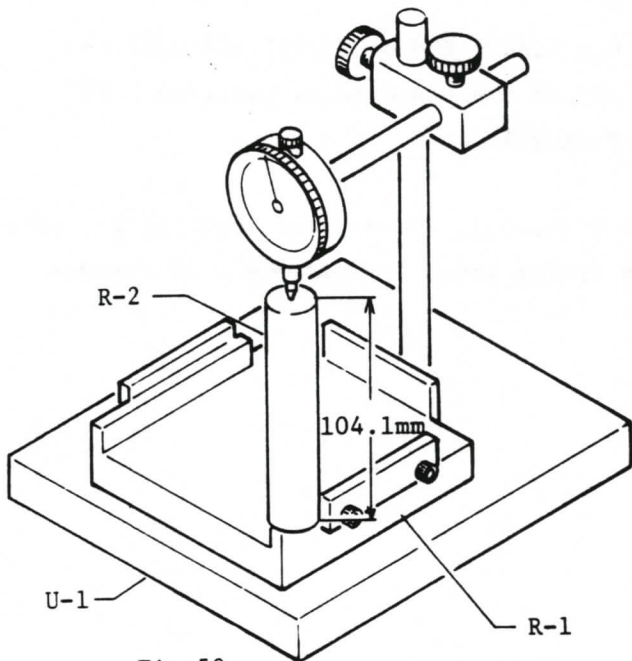


Fig. 50

b) Attaching Bayonet

1. Attach Bayonet (RS2121K2)
2. Tighten 4 pieces of Screw (PD2.6x4.5cr3).
3. Place the Camera body on body supporter and parallel disc gauge (R-3) on Bayonet.

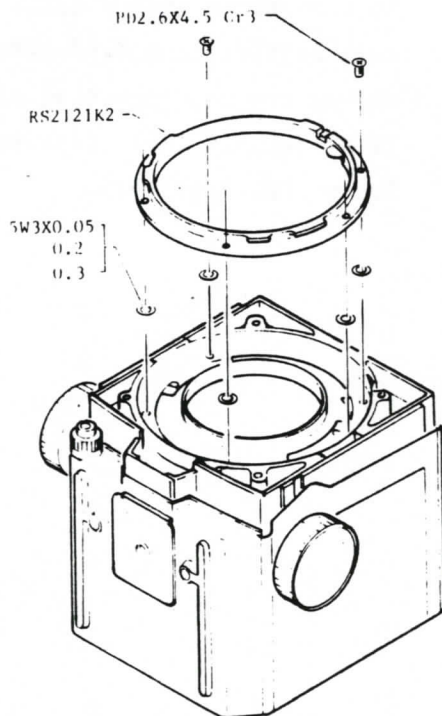


Fig. 51

c) Adjusting parallelism

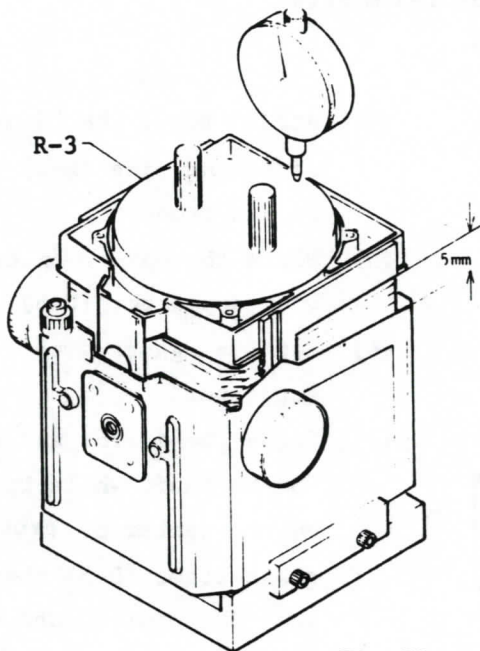


Fig.52

1. Extend the bellows by approximately 5mm.
2. Measure the parallelism at four corners. Parallelism at four corners shall be less than 0.1mm. Use Washer to adjust parallelism. (5W3x0.05, 0.2 and 0.3) as shown in Fig. 51, 52.

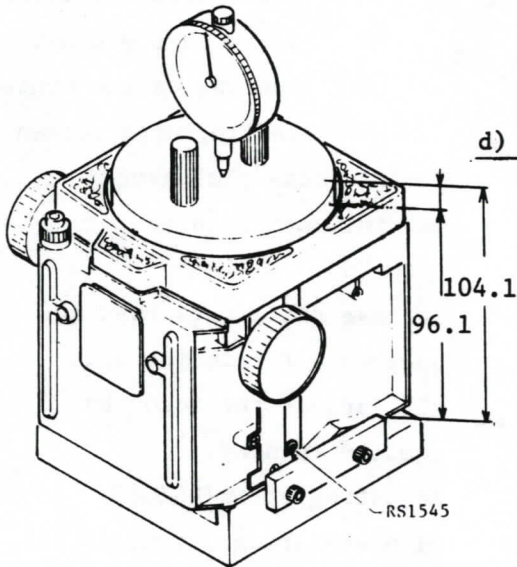


Fig.53

d) Adjusting infinity of Body length

1. Retract the bellows fully (infinity).
2. Measure the Body length at the center of Parallel disc gauge.
The Body length is 96.1mm.
Use Eccentric stopper (RS-1545) to adjust the flange back.

NOTE: Both sides of Eccentric stopper shall hit with Guide plate simultaneously.

7-2 Adjusting focus of the view finder

- (1) Attach Focus checking ground glass frame (R-8) to the back of the camera body.
- (2) Set the chart at a distance of 1-3 meters.
- (3) Attach the lens to the camera.

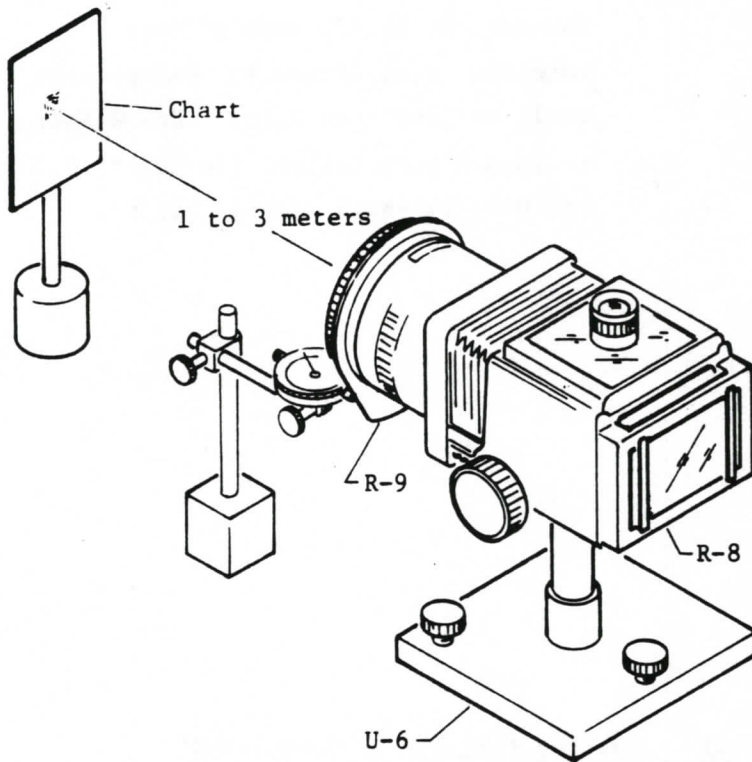


Fig.54

- (4) Attach Focus checking plate and ring (R-9) to the lens.
- (5) Place the camera on Camera body supporter (U-6).
- (6) Set Dial gauge with supporter.
- (7) Raise the mirror and focus on the chart while looking on the center of ground glass frame (R-8) then set the "0" point of the dial gauge.
- (8) Press down the mirror and focus on the chart while looking on the center of the focusing screen.

In this case dial gauge reading must coincide with "0".

In case dial gauge reading on does not coincide with "0", adjust the focus by equally turning.

Adjusting screw (RS2623) with adjusting driver (R-18).

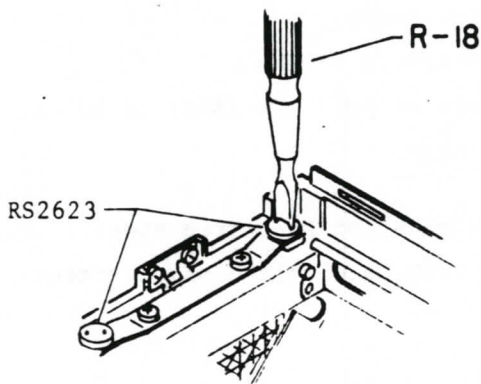


Fig.55

* 1/4 turn of Adjusting screw shifts the focus by 0.1mm.

Note: Adjusting method without Dial gauge

Turn Adjusting screw equivalently with Adjusting driver so as to coincide focusing on Ground glass frame with that on Focusing screen.

NOTE: Focal point and Film guide rail position

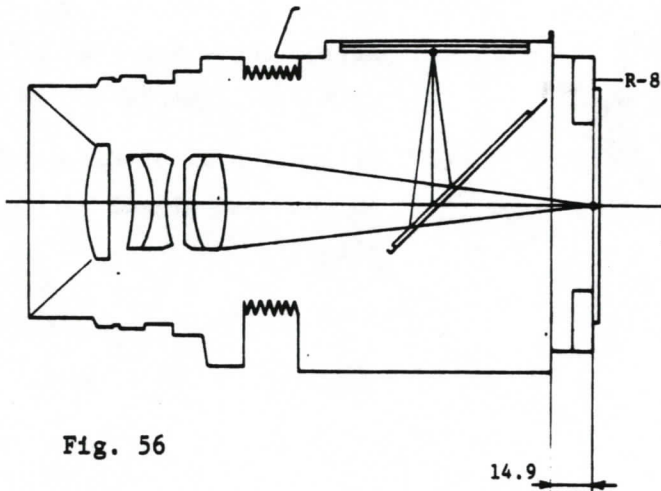


Fig. 56

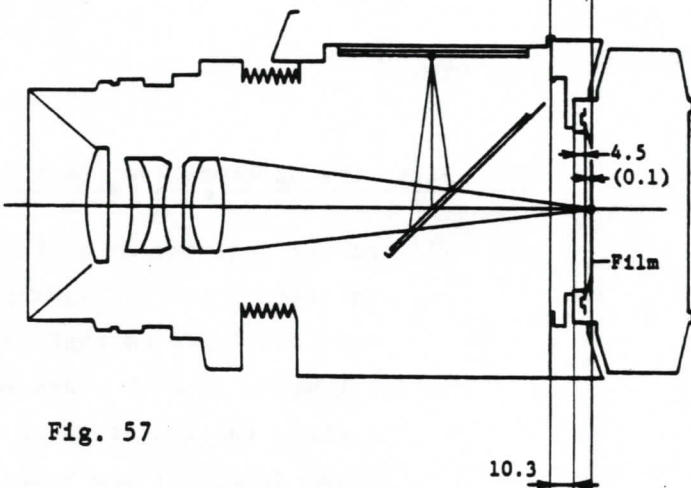


Fig. 57

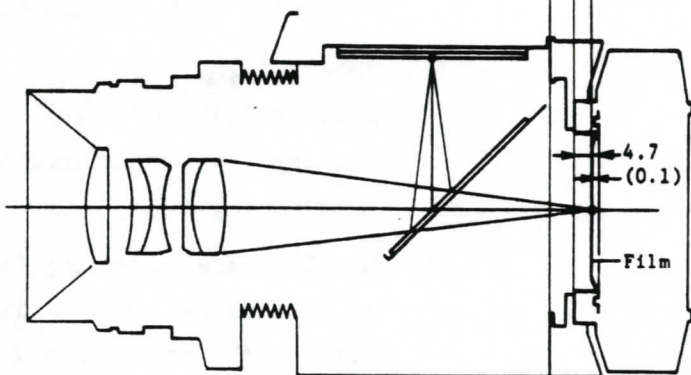


Fig. 58

1. Tool (R-8) Focusing Checking ground glass frame

Lens flange back is on Ground glass of Tool (R-8),

2. Pro-S Roll Film Holder

Film surface is 0.1mm shifting in the direction of rear side from Film guide rail

3. Roll Film Holder (Former model)

Film surface is 0.1mm shifting in the direction of front side from Film guide rail

* Use Tool (R-8) Focusing checking ground glass when adjusting Focusing.

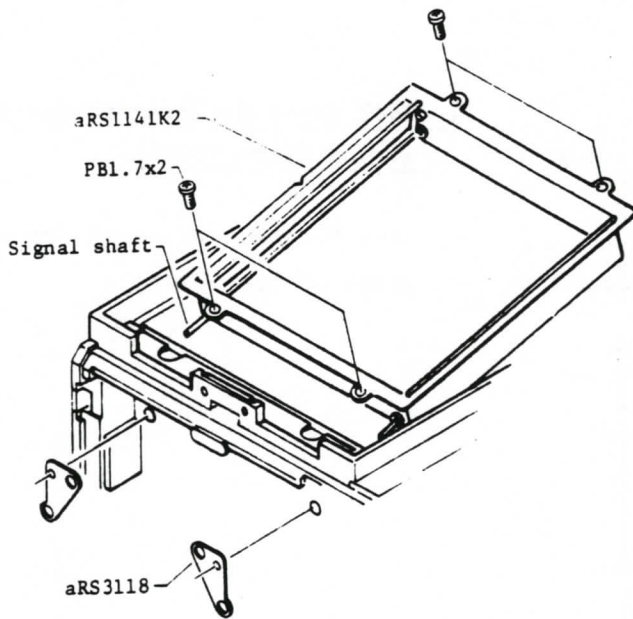


Fig. 59

8-1 Attaching Frame for Red bar assembly (aRS1141K2)

- (1) Attach above Frame with 4 pcs. of of Screws (PBl.7x2).
- (2) Attach 2 pcs. of Plate (aRS3118) so that Red signal bar moves slightly.

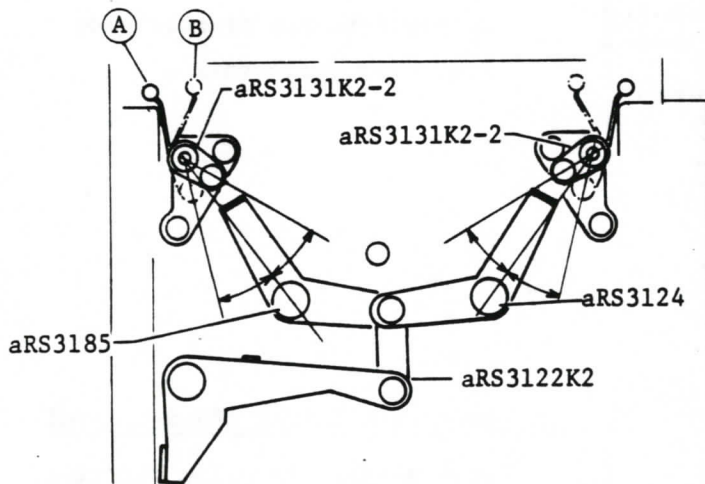
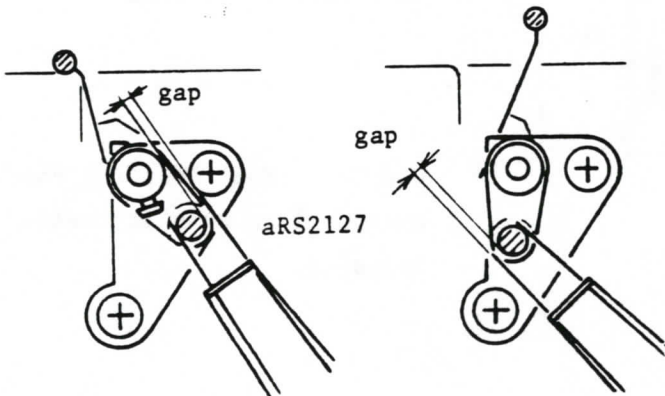


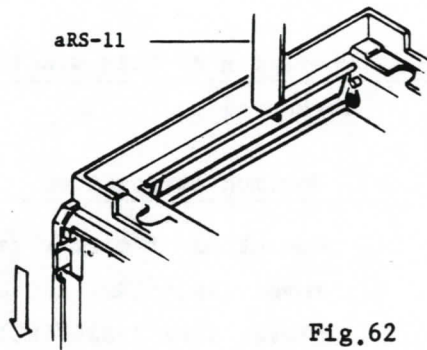
Fig. 60

8-2 Attaching Marking lever (aRS3131K2 1,2)

- (1) At vertical and/or horizontal position 2 pcs. of Marking lever are positioned so that Red signal bar moves to both sides equivalently against the center lines of Shoulder screw (aRS3124) and Shaft (aRS3185) from each shaft of Red signal bar.
- (2) Insert 0.1mm thick plate temporarily between Plate (aRS3118) and Marking lever when attaching Marking lever.
- (3) Check Retaining spring (aRS3127) so as to leave gaps equally both at the vertical and horizontal positions by turning Revolving adapter as shown in Fig. 61.



8-3 Adjusting Red signal bar



- (1) Turn the revolving adapter to the horizontal position.
- (2) Check the position of Red signal bar with Gauge for Red signal bar (aRS-11) as shown in Fig. 62.

Fig.62

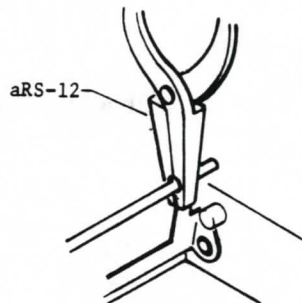
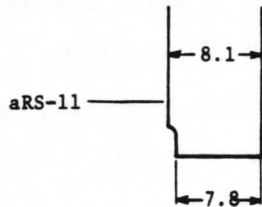


Fig.63

- (3) Bend arm with Adjusting pincers (aRS-12) as shown in Fig. 63
- (4) Check the position and movement of Red signal bar turning the revolving adapter to the horizontal position.

* Apply glued adhesive (Epoxy) to Red bar (aRS3111) when Red signal bar is out of place.

9 Releasing mechanism of Film winding stop

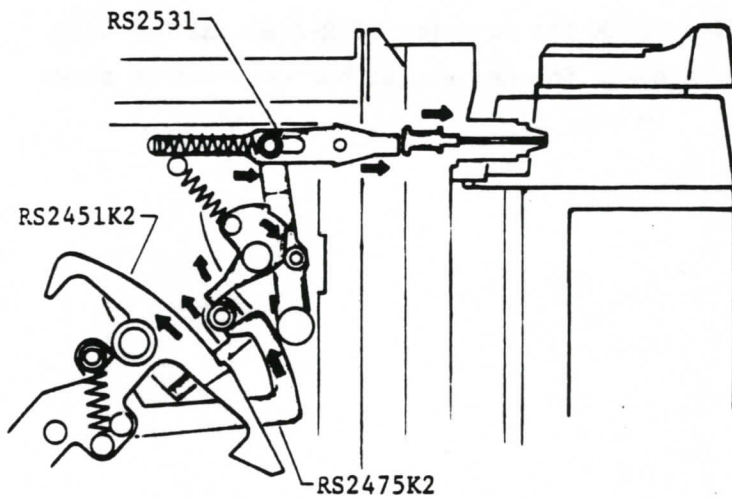


Fig. 64

9-1 Operation of Film winding stop mechanism

a) Horizontal position

Operation of mirror raising lever (RS2451K2) and Light baffle plate lever (RS2475K2) makes relative parts operate in the order of the arrow.

Then Coupling arm, right (RS2531) moves. (Fig. 64)

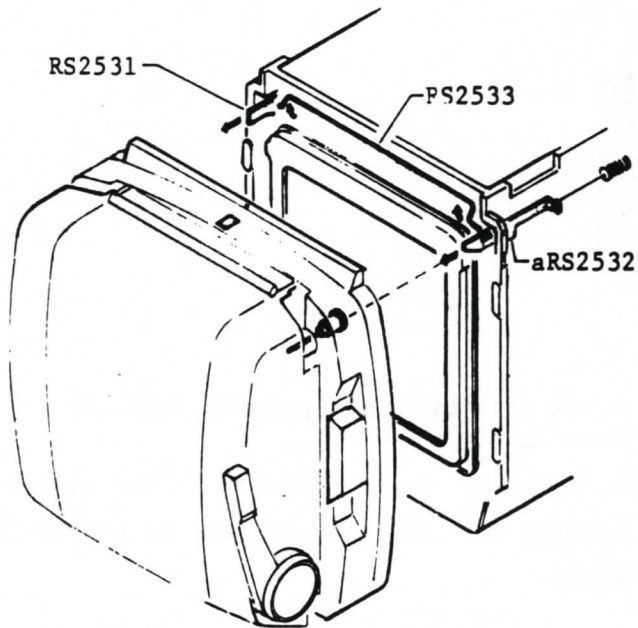


Fig. 65

b) Vertical position

In the above connection, Coupling plate, right (RS2531) links up with Coupling rod (PS2533) and Coupling arm, left (aRS2532).

9-2 Checking and adjusting Releasing mechanism
of Film winding stop

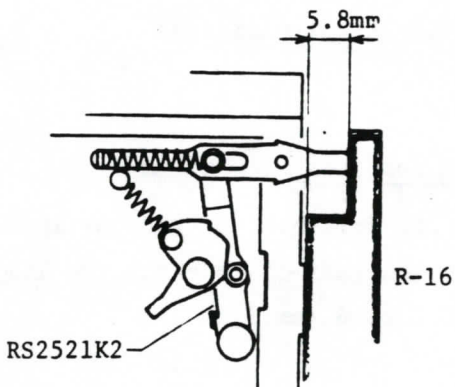


Fig. 66

a) Adjusting positions and operation of
Coupling arm, right (RS2531)
(Horizontal position)

Rest position

Use 5.8mm side of Coupling lever check gauge (R-16) to check the limit of 5.8mm.

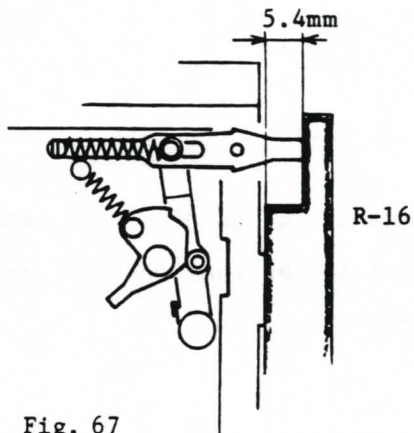


Fig. 67

Pushing position

- (1) Use 5.4mm side of the gauge (R-16) to check the limit of less than 5.4mm.
- (2) Confirm the smooth operation of Mirror keeping the gauge being attached.

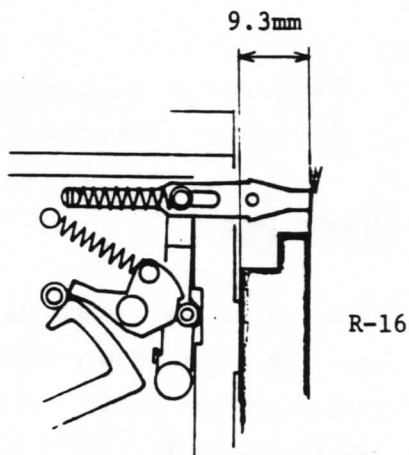


Fig. 68

Working length

Use 9.3mm plate of the gauge to check the limit of move than 9.3mm.

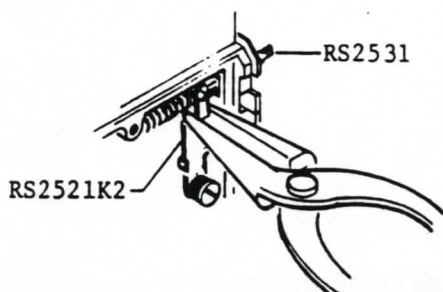


Fig. 69

When failing to satisfy above three limits, bend Signal lever (RS2521K2) with a pincers.

b) Adjusting positions and operation of
Coupling arm, left (aRS2532)

(Vertical position)

Rest position

Use Jig for vertical and horizontal position (aRS-1) to check the limit of 5.9 to 6.1mm.

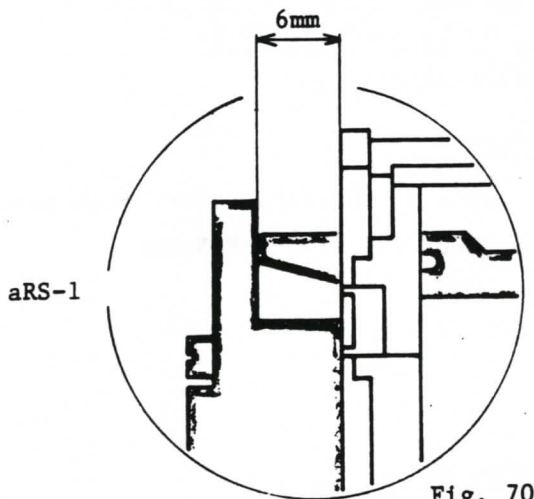


Fig. 70

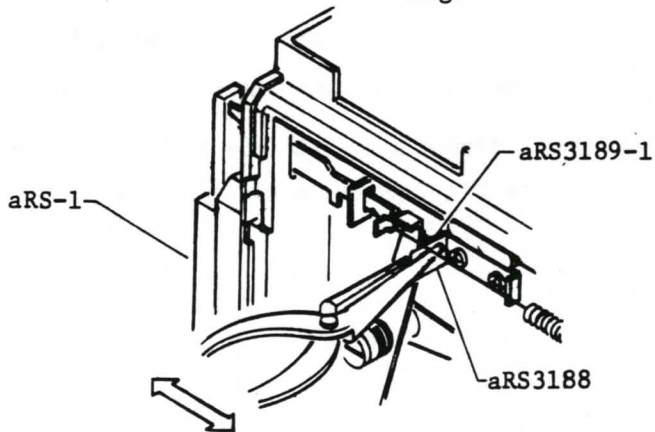


Fig. 71

For adjustment bend Stopper (aRS3189-1) and Setting spring (aRS3188) with a pincers.

Use 9.3mm plate of the gauge to check the limit of more than 9.3mm,

Working length

* After adjusting, check the double exposure preventive mechanism referring to Item 10 Double exposure prevention mechanism at page 30.

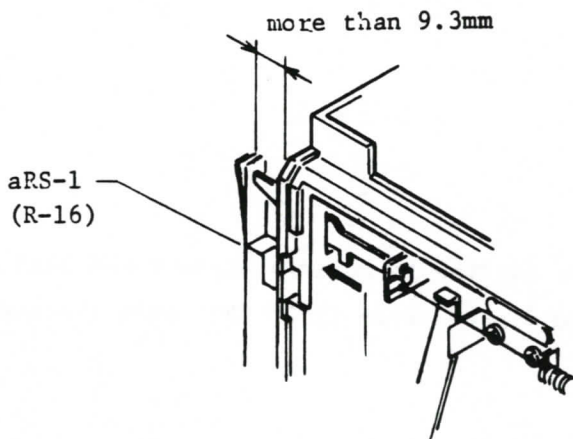


Fig. 72

9-3 Checking Coupling pin for film wind-stop
releasing of Revolving adapter

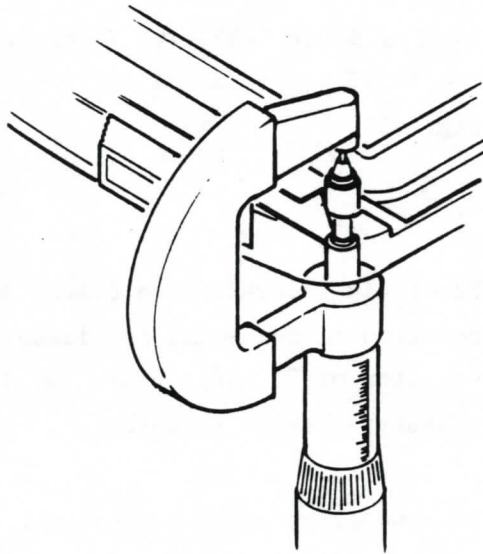
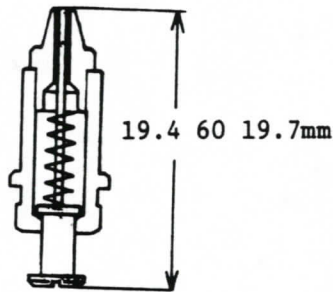


Fig. 73

- (1) Length of Coupling pin assembly (RS1271K2) is 19.4 to 19.7mm.



6 8gr

- (2) The length from the surface of polished guide rail of Revolving adapter to the top of Coupling pin is kept 15.4 to 16.0mm.

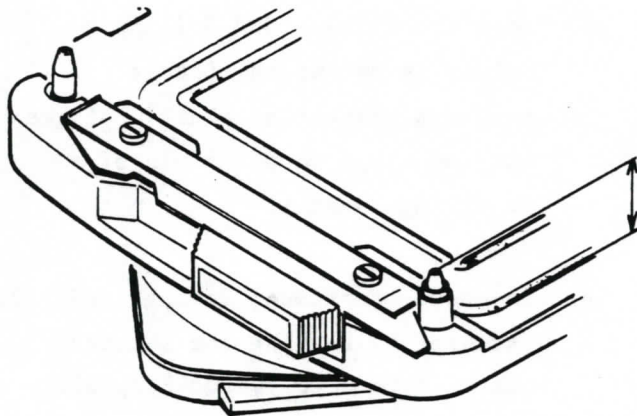


Fig. 74

- (3) Coupling pin shall move slightly by the weight of 6 to 8gr.

9-4 Checking Film winding stop with
Roll film holder attached

Check Film winding stop release attaching a film loaded PRO-S roll film holder to the camera at horizontal and vertical position.

10 Double Exposure Prevention Mechanism

10-1 Operation of double exposure prevention mechanism

a) Horizontal position

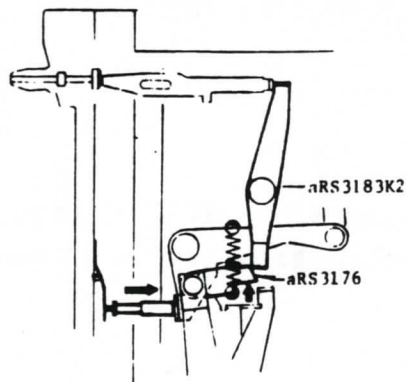


Fig. 75

- (1) Coupling plate (aRS3176) is connected with No. 3 lever (aRS3183K2). (Fig. 75)

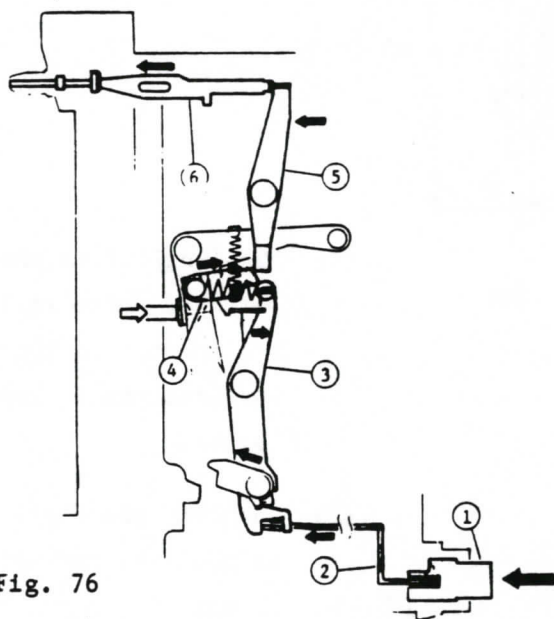


Fig. 76

- (2) The Arabic numerals in a circle and the arrow indicate the continuous operation of Coupling plate 6 due to Shutter button release.

Then, Coupling plate pushes Coupling pin of Revolving adapter. (Fig. 76)

- (3) When the film-loaded Roll film holder is not wound, Double exposure preventive plate sticks out and stops Coupling pin of Revolving adapter.

- (4) In above condition, Spring (aRS3172) is extended by pushing the shutter button more deeply, and Stop plate (B) hits Body lug (C) Consequently, shutter button can not be released and double exposure is prevented. (Fig. 77)

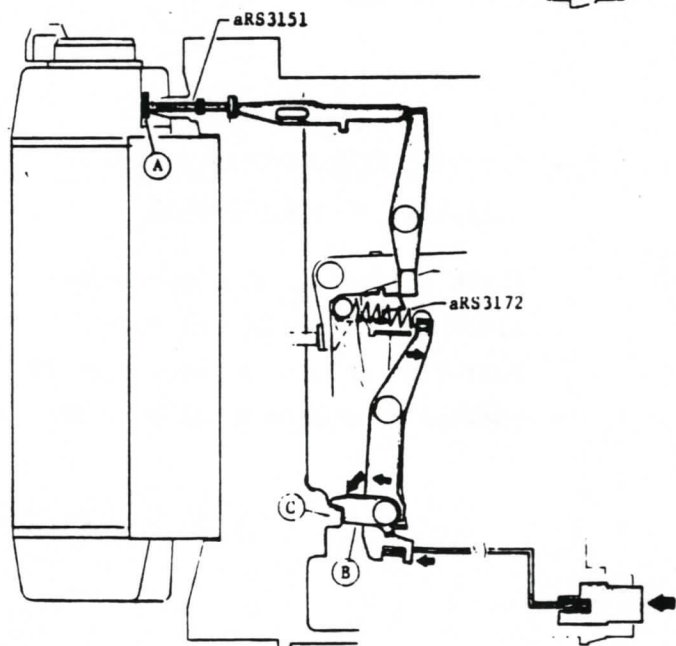


Fig. 77

b) Vertical position

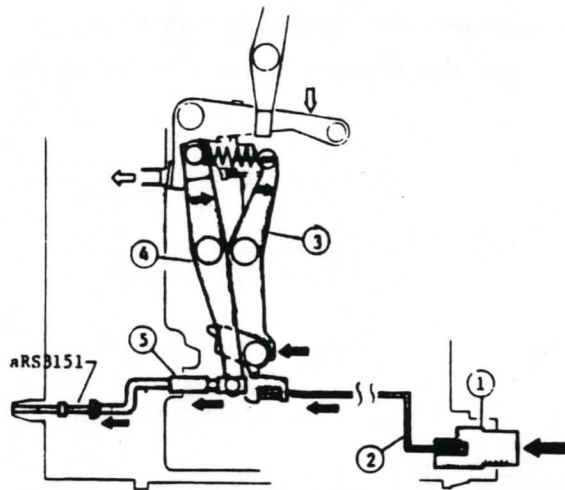


Fig. 78

- (1) The Arabic numerals in a circle and the arrow indicate the continuous operation of Linking nut 5 due to Mirror setting and Shutter button release.

Then, Coupling plate pushes Coupling pin of Revolving adapter. (Fig. 78)

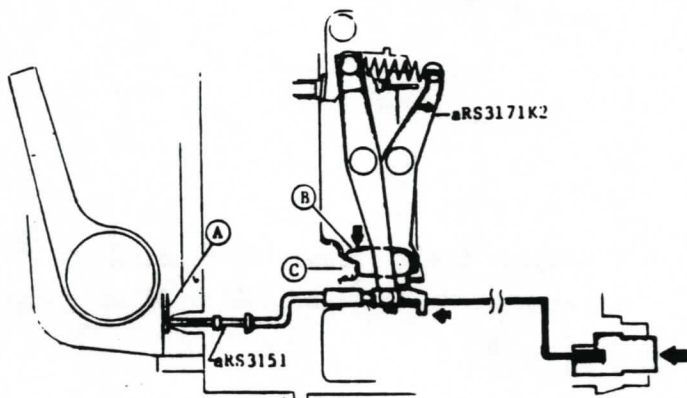


Fig. 79

- (2) When the film-loaded Roll film holder is not wound, Double exposure preventive plate sticks out and stops Coupling pin of Revolving adapter. (Fig. 79.)

- (3) In above condition, Spring (aRS3172) is extended by pushing the shutter button more deeply, and Stop plate B hits Body lug C. Consequently, shutter button can not be released and double exposure is prevented.

10-2 Adjusting method of Double-exposure prevention mechanism.

a) Adjusting clearance between Stop lever and Body lug

The clearance between Stop lever and Body lug shall be kept 0.05 to 0.1mm, when the shutter button is being released.
(Fig. 80)

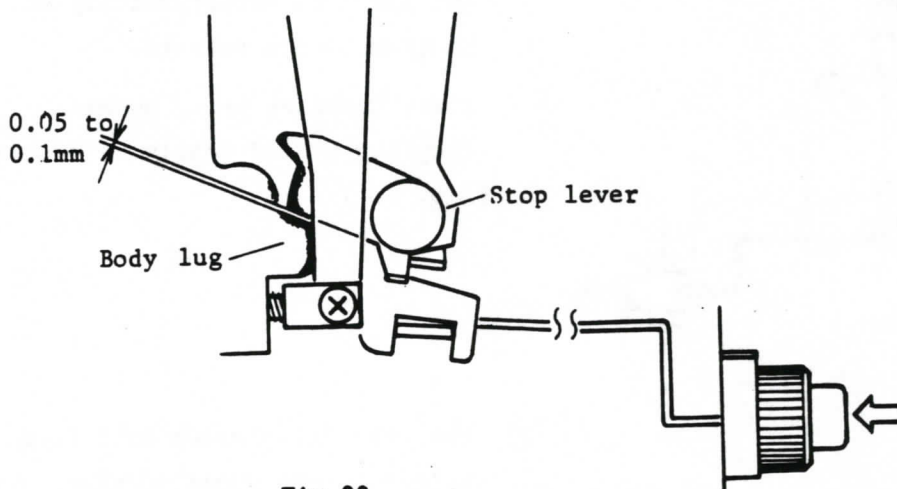


Fig.80

* Adjust the clearance by bending the edge of No. 1 lever (aRS3168) as shown in Fig. 81.

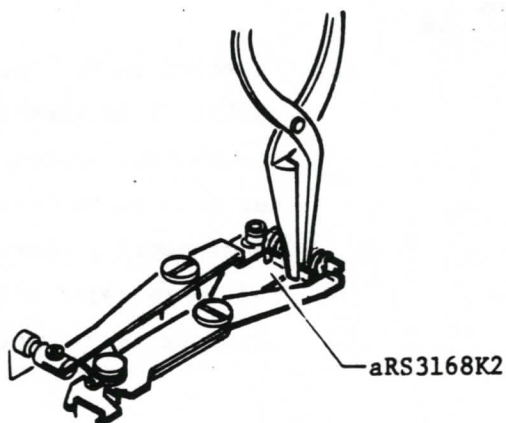


Fig.81

b) Adjusting stroke clearance of Stop lever

Clearance between Stop lever and lug of Body shall be kept 1.7mm as shown in Fig. 82.

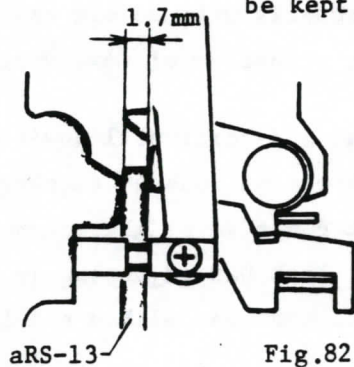


Fig.82

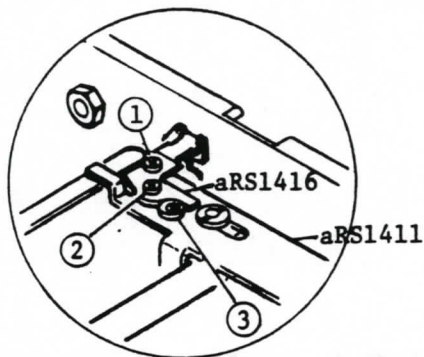


Fig.83

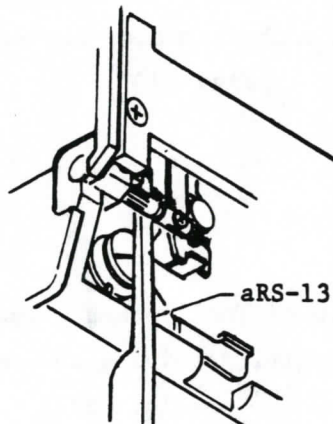


Fig.84

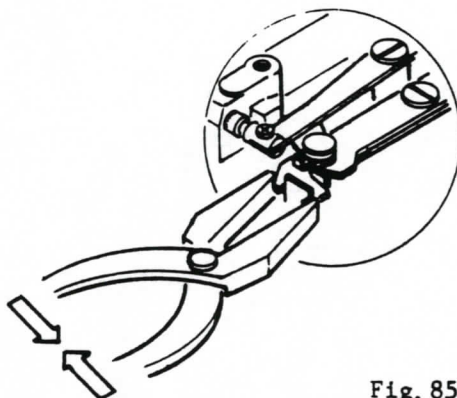


Fig. 85

Adjustment

- (1) Loosen Set screw (1), (2) and (3) for Release plate supporter (aRS1416) fastened with Release plate (aRS1411) as shown in Fig. 83.
- (2) Insert Stop lever clearance gauge (aRS-13) into the lug of the body and Stop lever, then move Release plate supporter (aRS1416) so that the shutter button does not work.
- (3) Tighten Set screw (1) and (2)
- (4) Support Set screw (3) with Eccentric stopper (RS1545) and tighten it.
- (5) Check the clearance (1.7mm).
- (6) Apply Screw lock to Set screw (1), (2) and (3)
- (7) Use a pincers to tighten the edge of Sub lever (aRS1416) so as not leave gaps between the edge of sub lever and Release plate supporting (aRS1516) as shown in Fig. 85.

c) Adjusting Release lock linking nut

Release lock linking nut (aRS1471) is coupled properly with double exposure prevention mechanism of Revolving adapter.

At vertical and horizontal positions, adjustment can be done by turning the Nut so that it comes in slight touch with pin of Release lock bar adjusting tool (aRS-2). Then fix Release bar with a small amount of DB Bond. (Fig. 86)

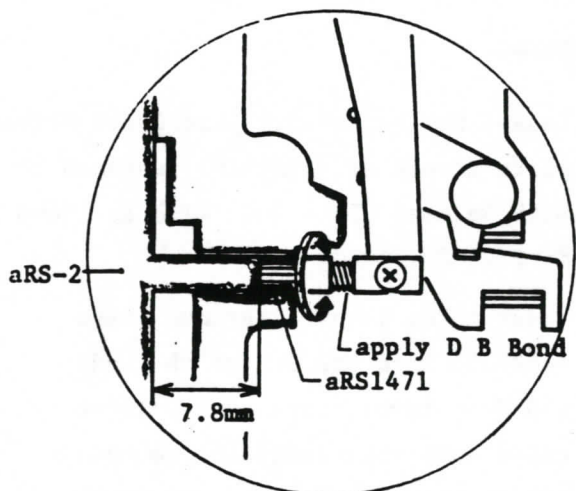


Fig. 86

Improper

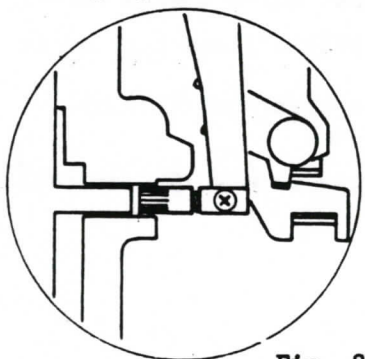


Fig. 87

* When there is gap between Release lock nut and the pin of Tool, double exposure prevention mechanism does not work perfectly. (Fig. 87)

Improper

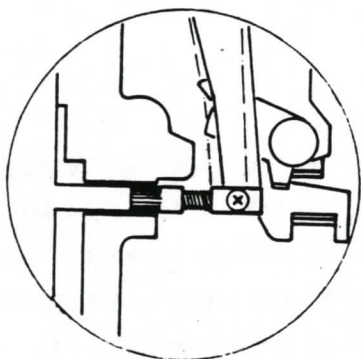


Fig. 88

* When the pin of Tool pushes Release lock nut exceedingly, Revolving adapter may not turn. (Fig. 88)

d) Adjusting turnover of double exposure preventive mechanism at horizontal and vertical position

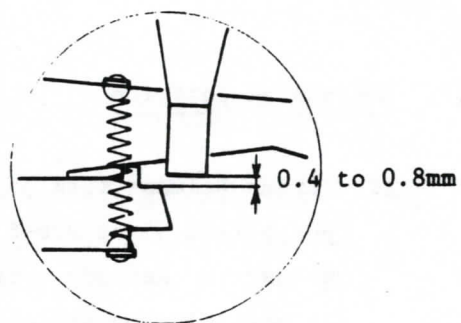


Fig. 89

1 Vertical position

Clearance between Coupling plate (aRS3176) and No. 3 lever (aRS3183K2) is kept 0.4 to 0.8mm (Fig. 89)

Adjustment can be done by bending the edge of No. 3 lever lengthwise with a pincers. (Fig. 90)

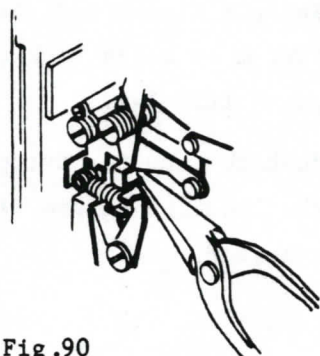


Fig.90

2 Horizontal position

Check the connection of Coupling plate and No. 3 lever as shown in Fig. 91.

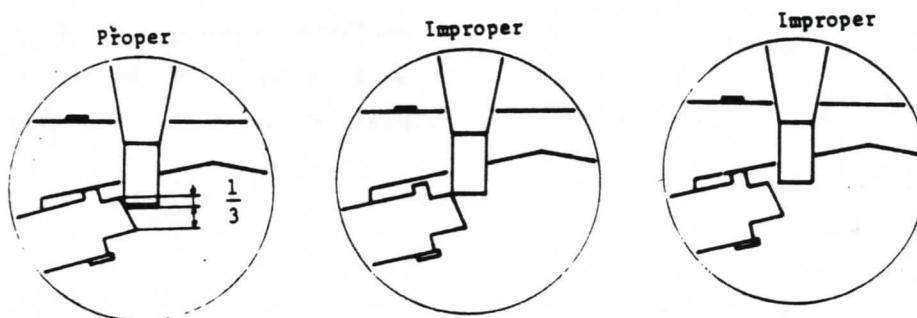


Fig.91

Adjustment can be done by turning the edge of No. 3 lever transversely. (Fig. 92)

After checking, turn Revolving adapter for several times and confirm their fitting.

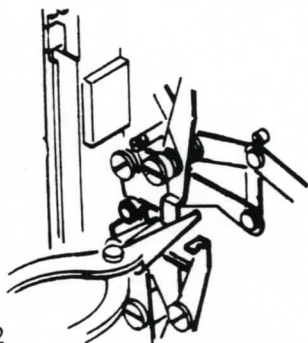


Fig.92

e) Checking Safety lock of Shutter
release button

(1) Horizontal position

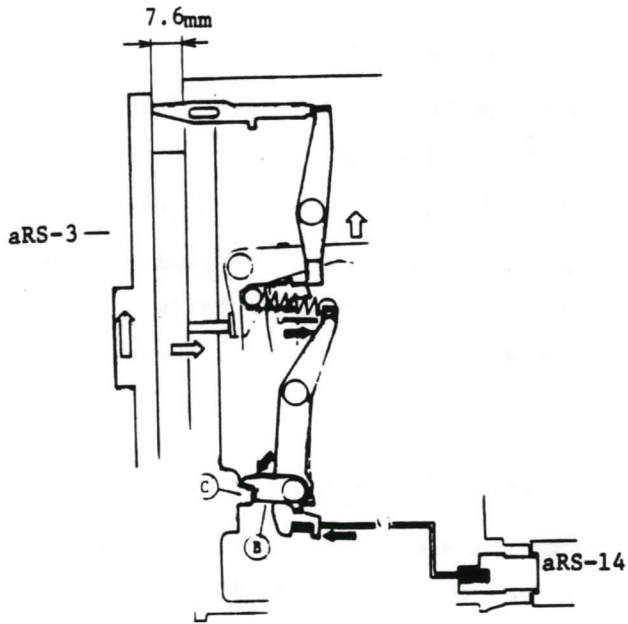


Fig 93

1. Attach Release lock positioning gauge (aRS-3) or Pro-S Roll film holder to the body, and set it at horizontal position.
2. Set the Mirror and push Shutter button by using Lock positioning gauge (aRS-14).
3. Push the shutter button and confirm that Shutter button can not be released. (Fig. 93)

(2) Vertical position

Procedures are almost same as above-mentioned with the exception that Gauge (aRS-3) is set at vertical position. (Fig. 94)

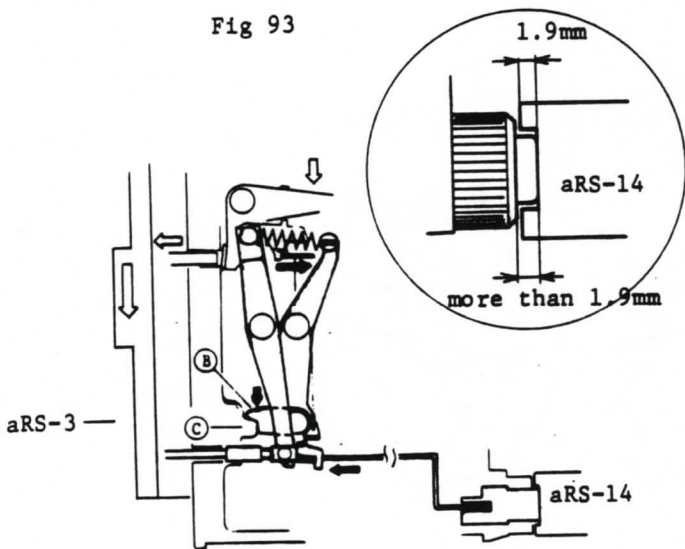


Fig 94

10-3 Checking Revolving adapter Coupling pin for
double exposure prevention

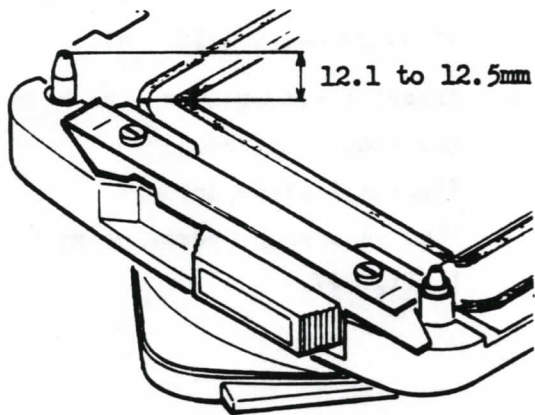


Fig. 95

- (1) The length from the surface of polished guide rail of Revolving adapter to the top of Coupling pin (aRS3151) is kept 12.1 to 12.5mm. (Fig. 95)

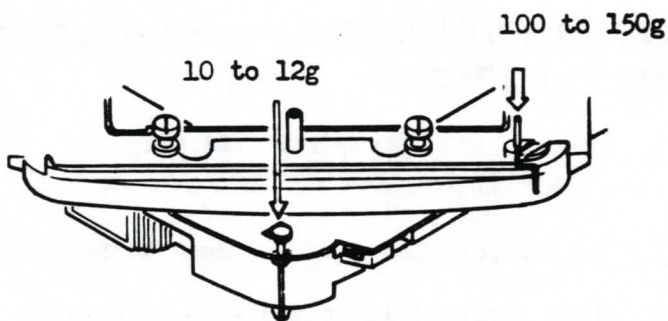


Fig. 96

- (2) Signal pin shall move half-way by weight of 10 to 12g, and turn back slightly (Fig. 96)
- (3) Release lock bar (aRS1261) shall move half-way by weight of 100 to 150g, and turn back smoothly. (Fig. 96)

11. Others

11-1 Adjusting Operation of Focusing Hood

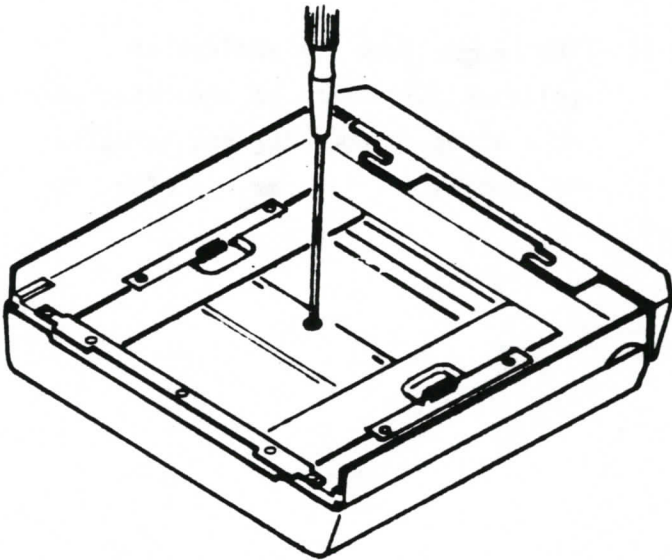
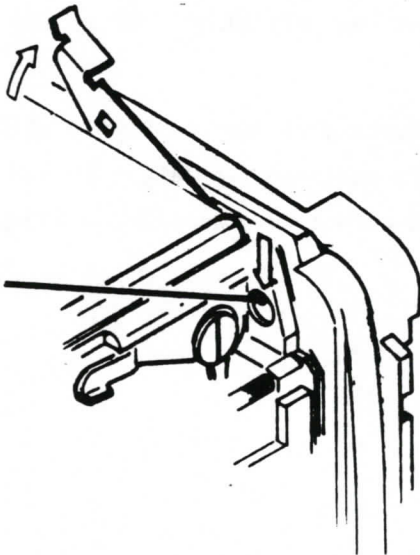


Fig. 97

1. Loosen 3 piece Screw (PD1.7x2.5) of Hinge plate (aRS2764).
2. Insert a driver in to the hole of the Panel (aRS2767).
Tighten 1 piece Screw.
Then adjusting Operation as shown in Fig. 97.

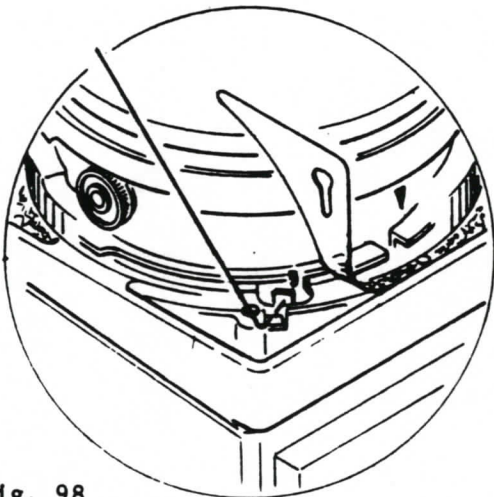
11-2 Removing Revolving adapter and Lens in trouble

a) Revolving adapter



1. Remove side plate, left (RS1621) or right (RS1622).
2. Pull R-lock lever out as much as possible.
3. Then thrust Slide plate with a screw.

b) Lens



1. Strip leatherette off the right-upper position of Front cover.
2. Then thrust Lens lock lever (RS2123K2) by hook-shaped rod from the hole of Front cover as shown in Fig. 98.

Fig. 98

12 Removing and attaching Top cover

12-1 Removing

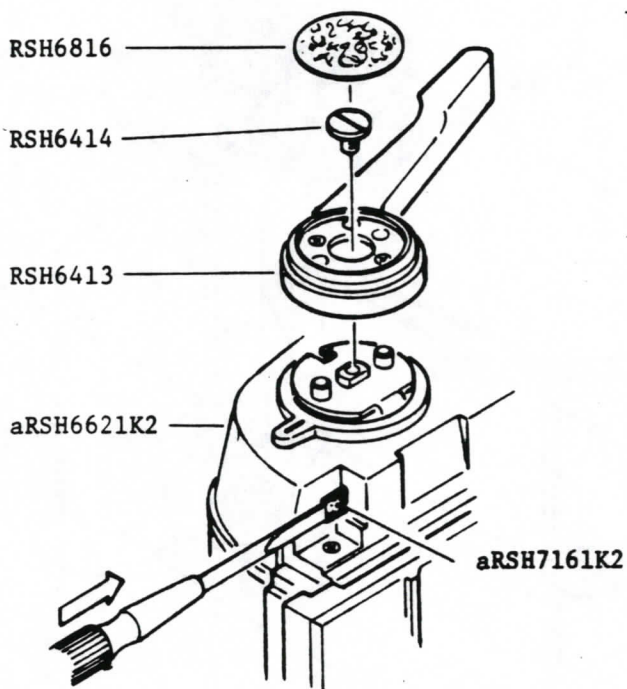


Fig. 99

- (1) Remove Winding lever (RSH6413) and Top cover retaining screws (PB1.7x3, PB1.7x4).
- (2) Remove Top cover (aRSH6621K2) pushing Preventive lever assy. (RSH7161K2) with a screw driver as shown in Fig. 99.

12-2 Attaching

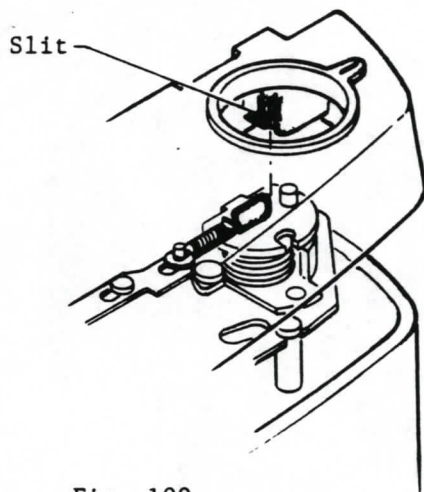


Fig. 100

Locate the slit of Top cover on the top of the lever so as not to deform Preventive lever assy as shown in Fig. 100.

13 Film advancing mechanism

The Arabic numerals in a circle and the arrow indicate the continuous operations of the film advancing.

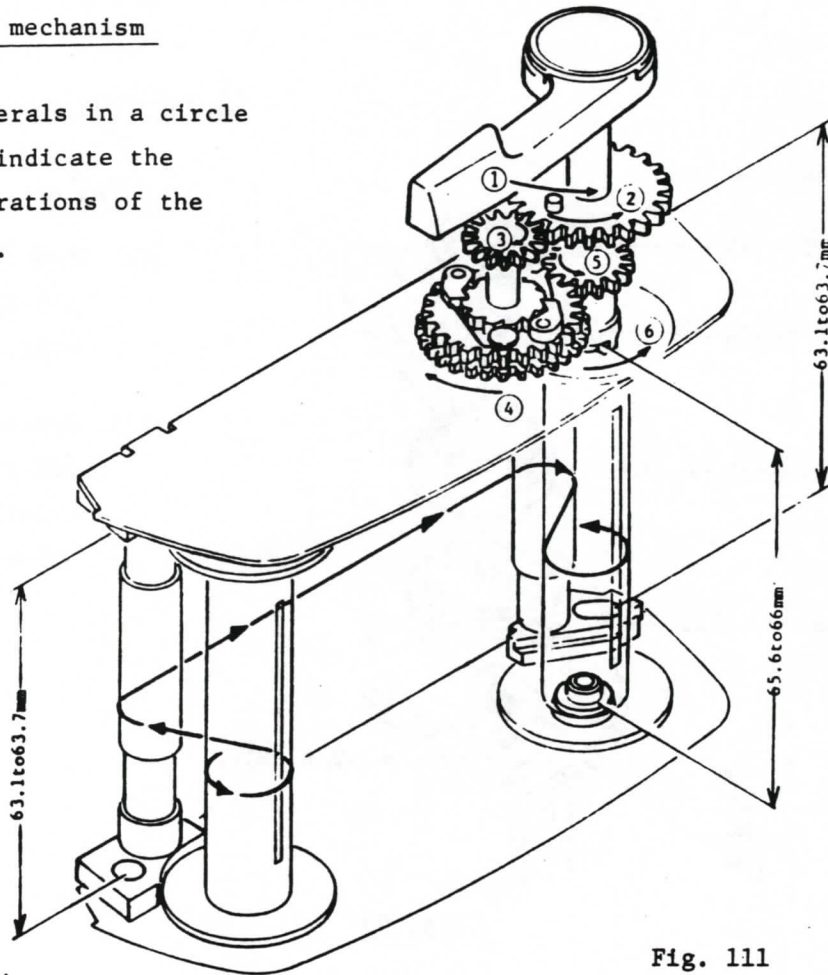


Fig. 111

14 Film wind-stop mechanism

14-1 Operating mechanism

- (1) By closing Back cover, Lever ① and ② are pushed.
- (2) Relative parts operate in the order of the numerals from 3 to 9 in a circle.

- (3) Both ends of Release lever ⑩ fit Counter dividing device and Winding stop gear ⑪ stopping film winding.

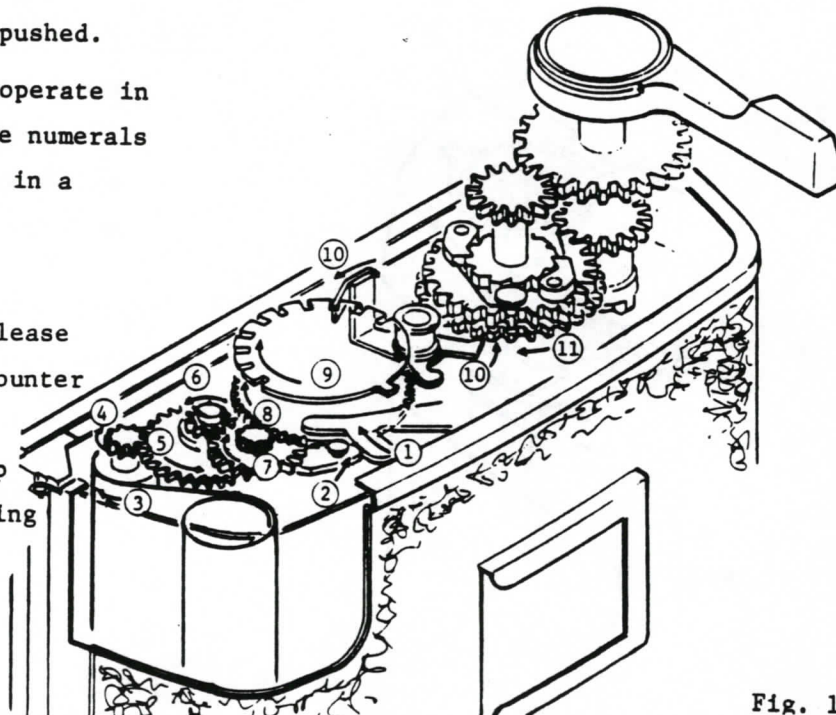


Fig. 112

14-2 Attaching and adjusting Film counter

a) Removing Film counter

- (1) Pull the end of Charging lever (aRS7112K2) thrusting the other end of the lever down Base plate (aRSH6411K2) with a screwdriver.
- (2) Remove Screw (RSH6498), and take out the film counter.

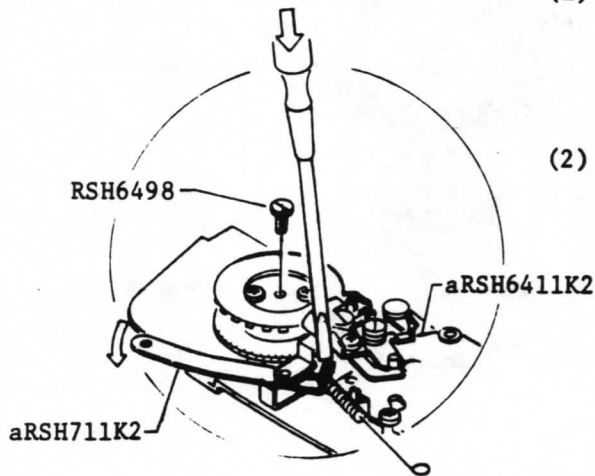


Fig. 113

b) Attaching Film counter

Before attaching, locate the position of Spring (RSH6495) and Anchor as shown in Fig. 114.

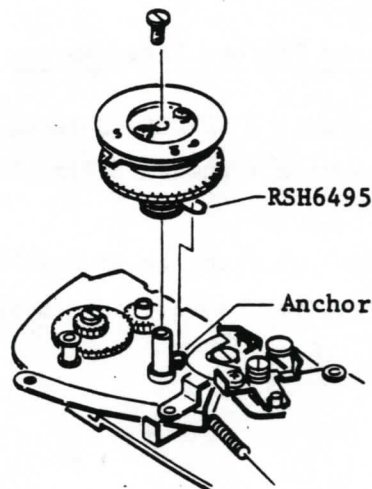


Fig. 114

Keep Release plate (aRS6461K2) with a finger and Release lever with a screwdriver being pushed for charging counter spring for $\frac{1}{2}$ turn in the direction of the arrow as shown in Fig. 115.

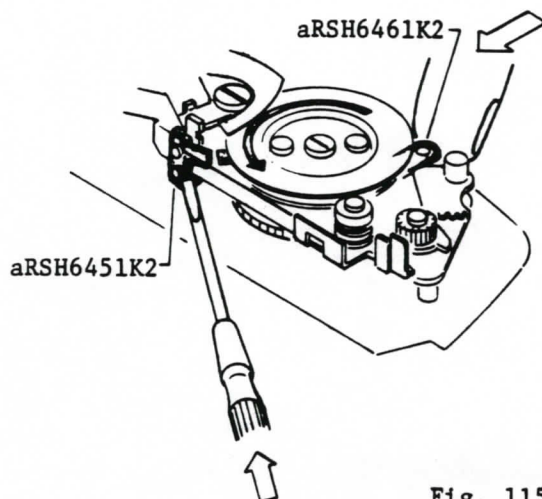


Fig. 115

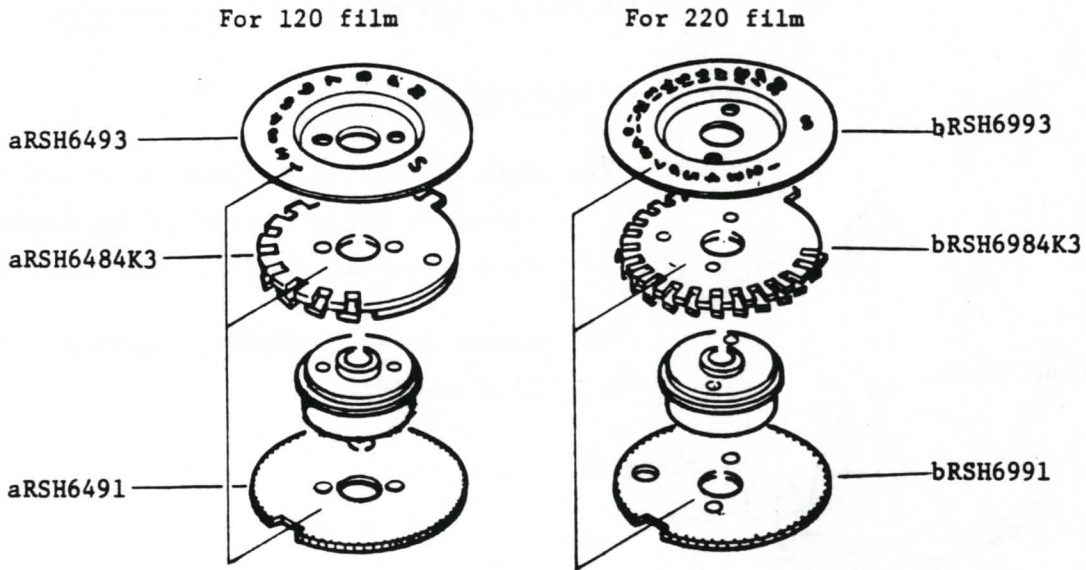


Fig. 116

NOTE: Locating positions of each parts are shown above Fig. 116.

c) Attaching Release lever spring

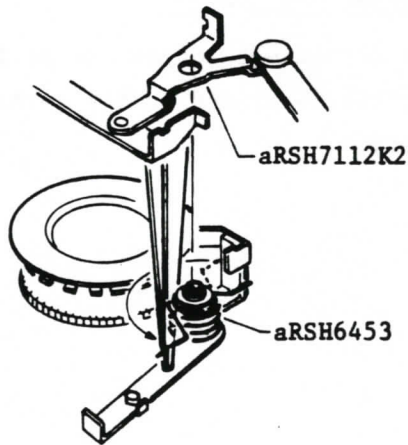


Fig. 117

- (1) Keep Spring (aRSH6453) wound for $\frac{1}{2}$ turn with a tweezer. (Fig. 117)
- (2) Attach Charging lever and hook the spring on the lever as shown in Fig. 117 and 118.

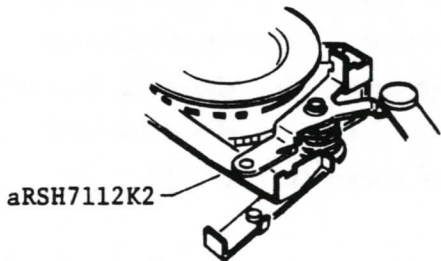


Fig. 118

15 Mechanism relative to Film wind-stop releasing

15-1 Operating mechanism

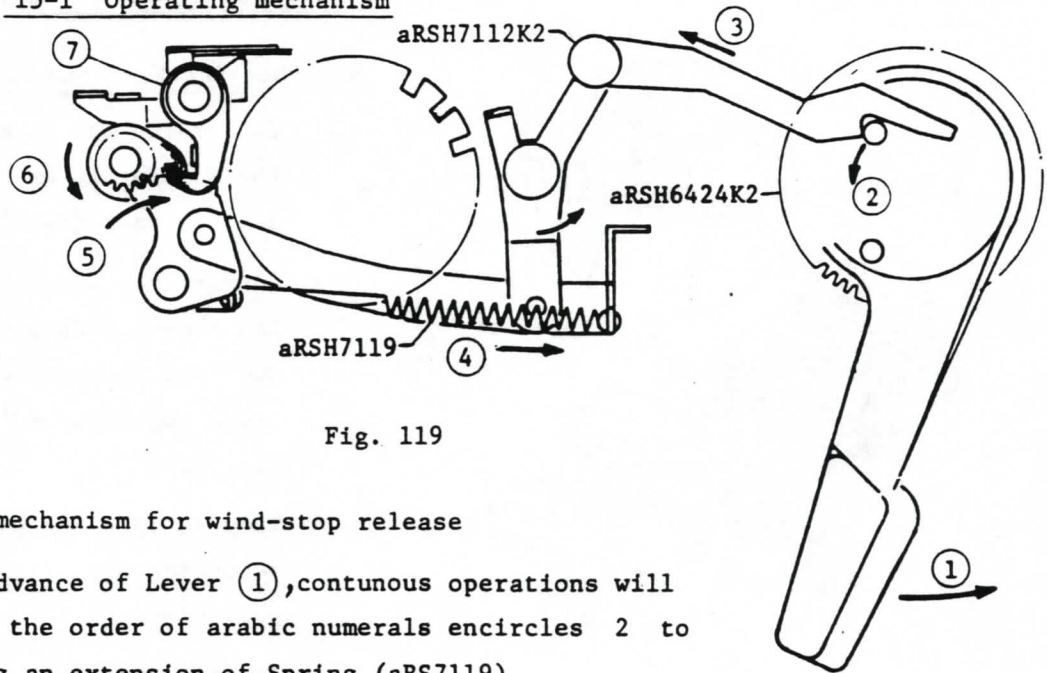


Fig. 119

a) Charging mechanism for wind-stop release

With an advance of Lever (1), continuous operations will follow in the order of arabic numerals encircled 2 to 7 causing an extension of Spring (aRS7119).

b) Film wind-stop releasing mechanism

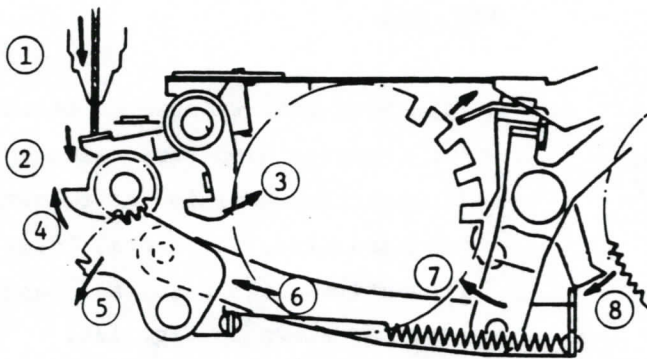


Fig. 120

- (1) With a release of shutter button Coupling pin (1) for film wind-stop releasing operates pushing Signal lever (2) and continuous operations from (3) to (7) encircled will follow.
- (2) Release lever comes off from Counter dividing device and Winding stop gear as shown in Fig. 120

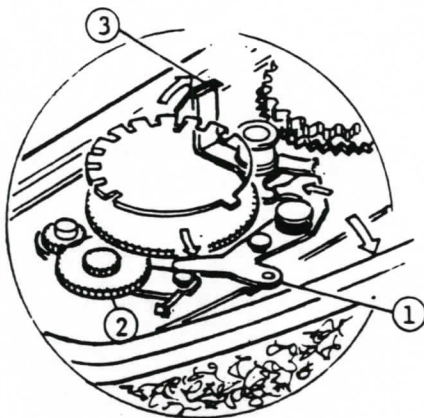


Fig. 121

* Release plate (1), Third gear (2) and Release lever (3) come off from Film counter gear by opening Back cover. Consequently, Exposure counter automatically resets to S (Start) as shown in Fig. 121.

15-2 Attaching and Adjusting

a) Checking Pawl and Hook

- 1) By loading the film and advancing the Winding lever, Hook (aRSH7131K2) catches Pawl (aRSH7144K2).
- 2) Confirm the sound "POP" caused by the above-mentioned work of Hook and Pawl at every winding of the Lever for about 90° as shown in Fig. 122.
- * When it does not pop, wind-stop releasing mechanism is not in good condition.
- 3) Confirm that Pawl shall return to its original position when pushing Sector gear (aRSH7151) with a finger just before Hook catches Pawl, and release the finger as shown in Fig. 123

NOTE: Film wind-stop release unloaded
For changing Wind-stop release from setting position to releasing position slide Horizontal lever of Preventive lever assy. and push lever as shown in Fig. 124.

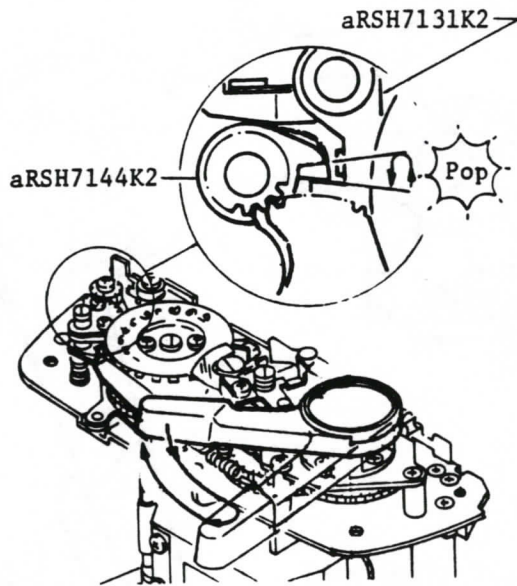


Fig. 122

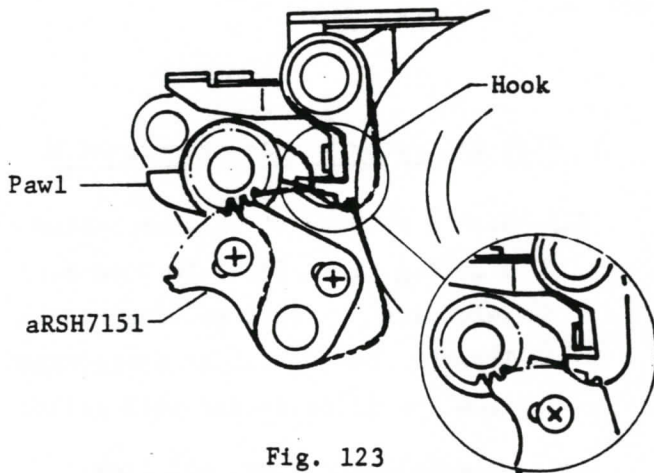


Fig. 123

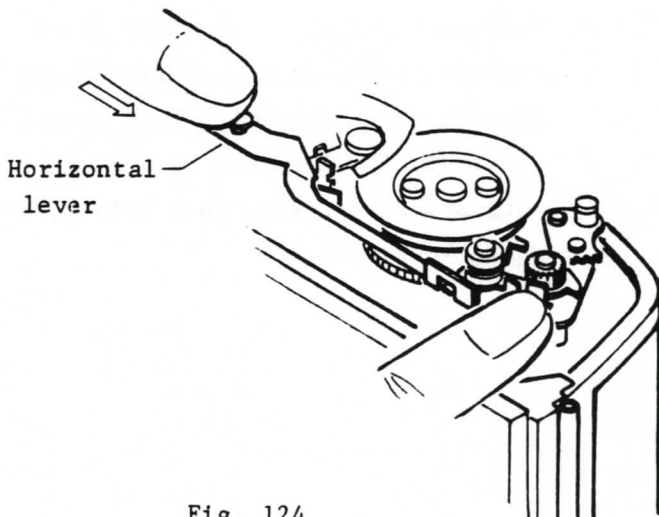


Fig. 124

b) Checking operation of Charging lever

In case pawl does not pop by advancing the winding lever, check the following points.

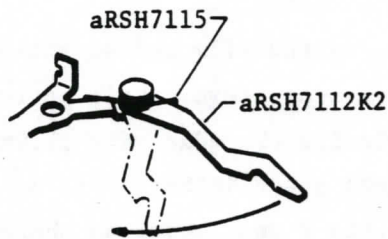


Fig. 125

- (1) Charging lever (aRSH7112K2) shall move slightly by the force of Spring (aRSH7115) as shown in Fig. 125.

- (2) Winding gear No. 1 (aRSH6424K2) and Base plate (aRSH6411K2) shall not prevent Charging lever from operating as shown in Fig. 126.

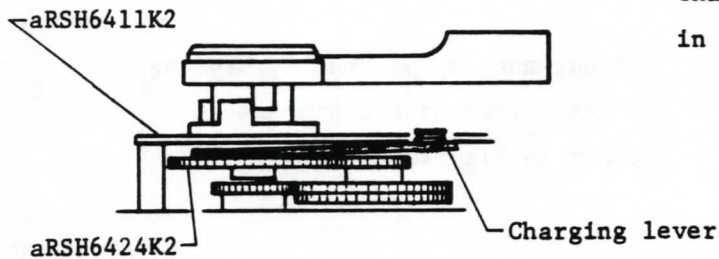
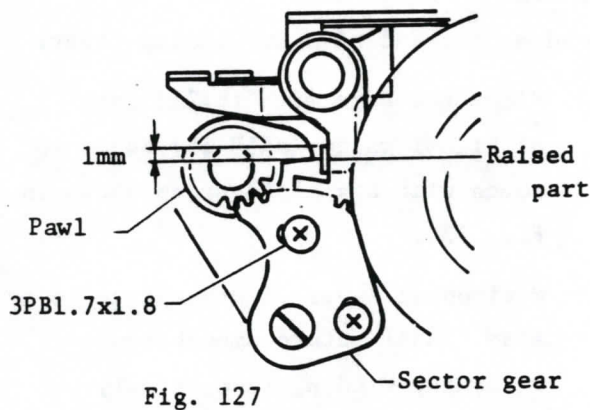


Fig. 126

c) Adjusting Hook and pawl overcharging amount



- (1) When Winding lever is advanced, Pawl's operating range shall be within front half of the raised part of Signal lever.
- (2) Adjusting
Keep Release lever being released in order to separate pawl from Hook.
Loosen 2 pcs. of Screw(3PB1.7x1.8) and move position of Sector gear.
When needing further more adjustment, change the meshing position of the gear of Pawl and Sector gear as shown in Fig. 127.

d) Adjusting wind-stop releasing position

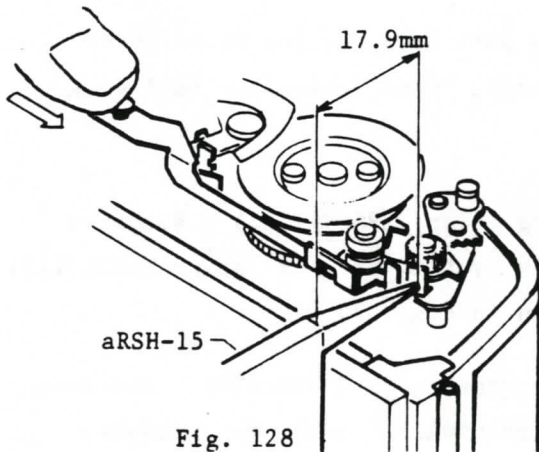


Fig. 128

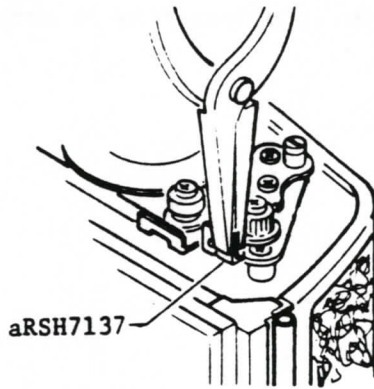


Fig. 129

(1) Wind-stop release

By loading the film and advancing Winding lever, Release lever shall be released when placing the edge with 17.9mm long of Signal gauge (aRSH-15) so as to touch with Signal lever as shown in Fig. 128.

Adjustment can be done by bending Signal lever with a pincers as shown in Fig. 129.

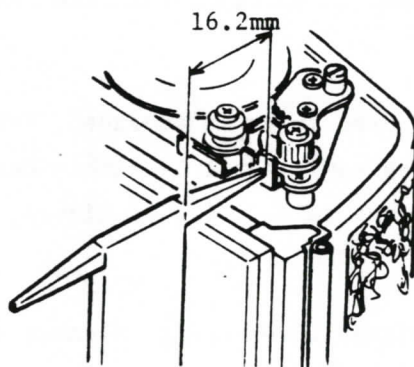


Fig. 130

(2) Horizontal lever operation of Preventive lever assy.

Load a film and advance winding lever.

- (1) Place the edge with 16.2mm long of Signal gauge (aRSH-15) so as to touch with Signal lever as shown in Fig. 130.
- (2) Horizontal lever of Preventive lever assy. shall return smoothly when returning Winding lever slowly.

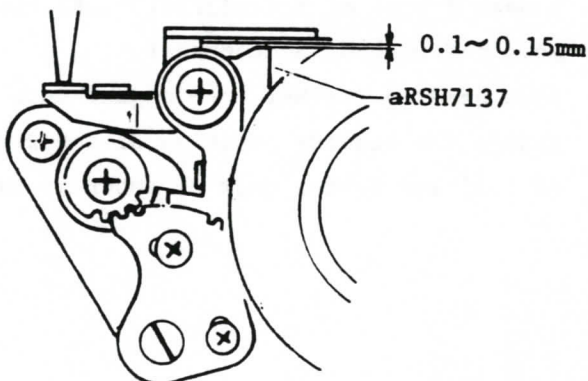


Fig. 131

Adjustment can be done by wearing away the edge of Signal lever to leave 0.1 to 0.15mm gaps between Horizontal lever and Signal lever as shown in Fig. 131.

* Film wind-stop release unloaded

Please refer to a) Note in Fig. 124.

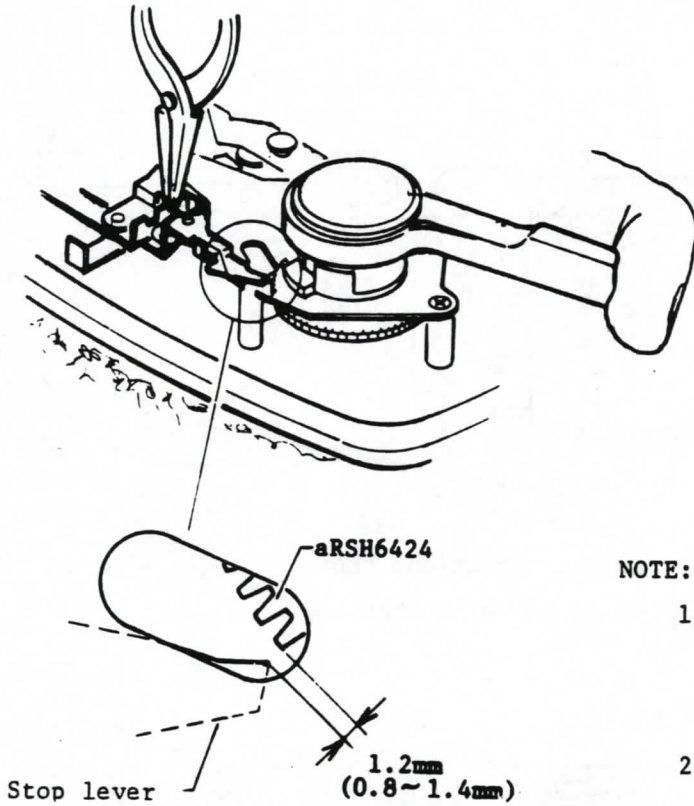


Fig. 132

e) Adjusting Stop lever

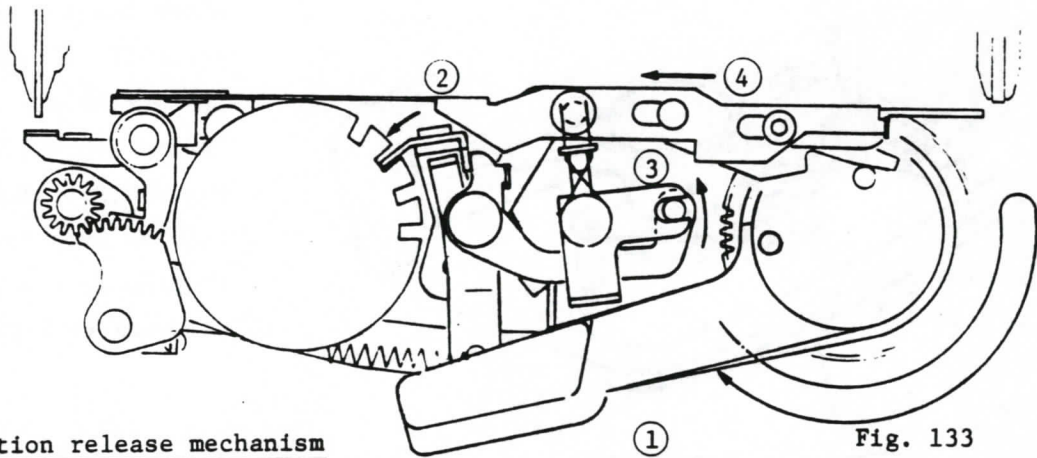
After loading and advancing the roll film, bend Connection arm of Charging lever with a pincers so as to leave 0.8 to 1.4mm gaps between Stop lever edge and Winding gear No. 1 (aRSH6424) as shown in Fig. 132.

NOTE:

- 1) Clearance less than 0.8mm
Ratchet type film advance sometimes cannot be done.
- 2) Clearance more than 1.4mm
Film advance lever may not return by the action of Film-wind stop in ratchet typ winding.

16 Double exposure preventive mechanism

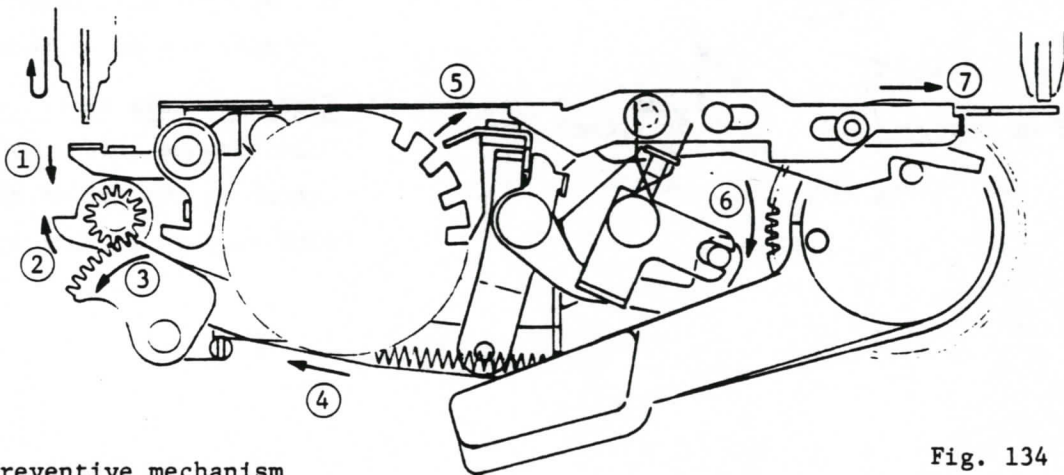
16-1 Operating mechanism



a) Prevention release mechanism

Fig. 133

By advancing Winding lever, continuous operations from ① to ④ will follow releasing the preventive mechanism as shown in Fig. 133.



b) Preventive mechanism

Fig. 134

Coupling pin of revolving adapter operates Signal lever and continuous operations from 1 to 7 will follow preventing the double exposure as shown in Fig. 134.

NOTE:

When Winding lever does not return to its original position, Lever (aRSH7121) prevents Preventive lever assy. from operating and double exposure preventive mechanism is not released as shown in Fig. 135.

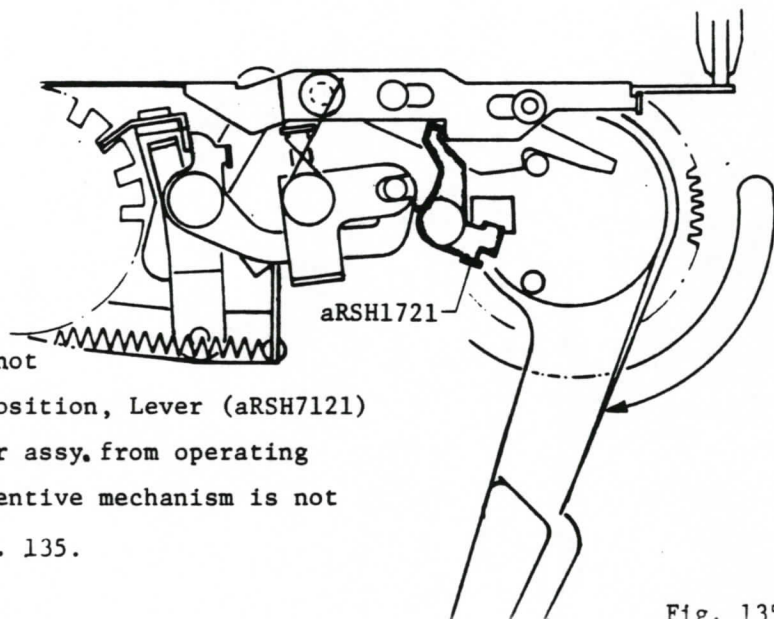


Fig. 135

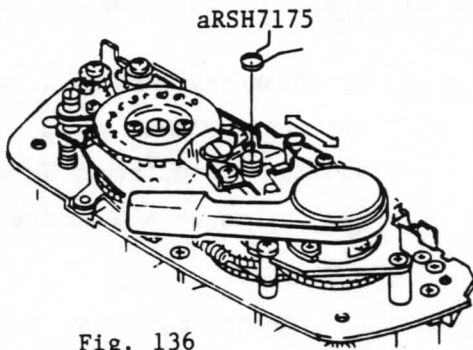


Fig. 136

Horizontal lever

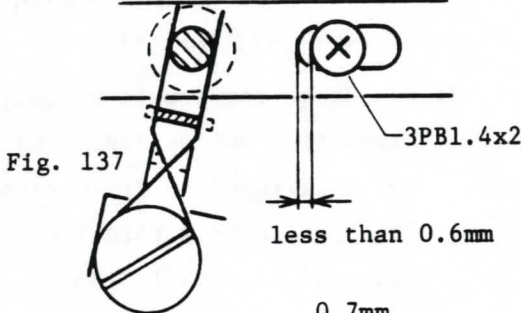


Fig. 137

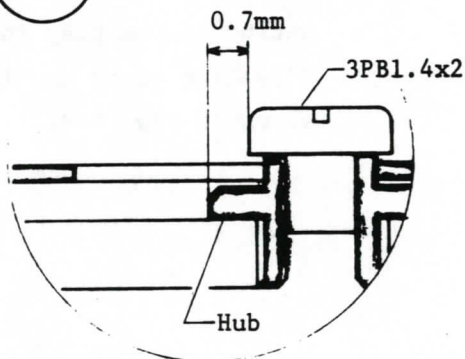


Fig. 138

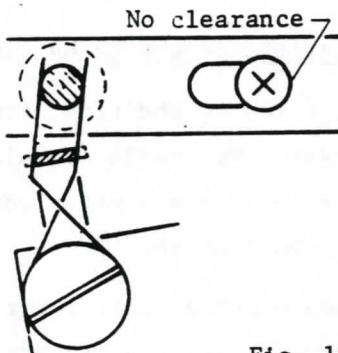
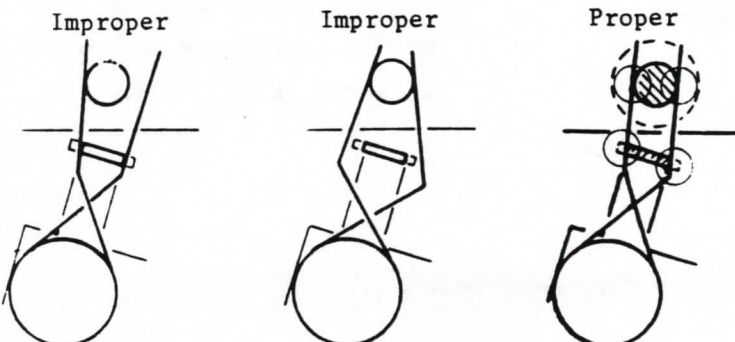


Fig. 139



a) Adjusting Preventive lever assy

Horizontal lever of the above lever assy. shall move very slightly with the weight of itself when removing (aRSH7175) as shown in Fig. 136.

(1) Horizontal lever

- 1) Advance winding lever and turn the exposure counter so that it sets between "S" to "1".
 - 2) Bend Spring (aRSH7175) so as to leave less than 0.6mm gaps between the slit of Horizontal lever and Screw (3PB1.4x2) as shown in Fig. 137
- * Judge 0.6mm gaps with an eye-measurement referring to 0.7mm gaps between edge of Hub and head of Screw (3PB1.4x2) as shown in Fig. 138.

(2) Adjustment at the counter "1"

- 1) Advance Winding lever, then Release lever fits Counter dividing device
 - 2) Bend Spring (aRSH7175) so as to leave no clearance between the other side of slit and screw as shown in Fig. 139.
- * Take care to keep both ends Spring parallel to each other when bending it as shown in Fig. 140.

NOTE: The location of Horizontal lever shall satisfy above (1) and (2).

b) Checking Double exposure prevention device

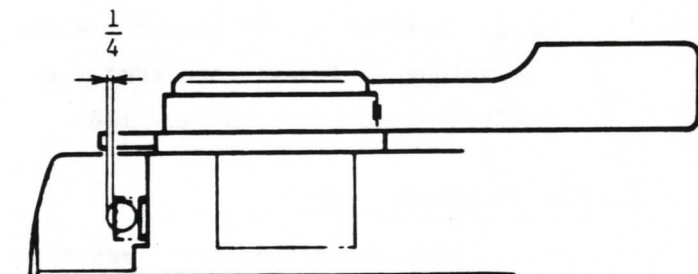


Fig. 141

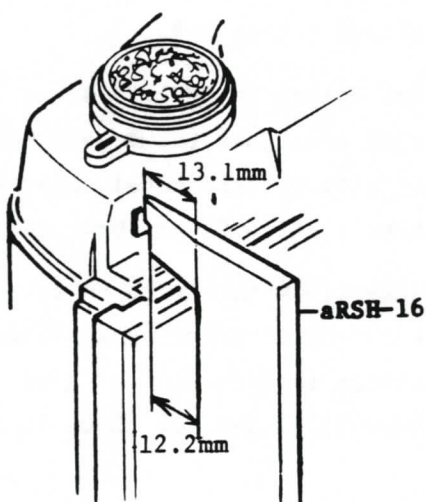


Fig. 142

- 1) By advancing Winding lever, Preventive lever shall disappear completely from the Top cover's hole for Coupling pin.
- 2) At released position, Preventive lever shall appear until it covers the hole more than $\frac{3}{4}$ as shown in Fig. 141.
- 3) Use Gauge for double exposure prevention device (aRSH-16) for confirmation, Preventive lever shall be within the range of 12.2 to 13.1mm including the play in the direction of to and for as shown in Fig. 142.

17 Multiple exposure mechanism

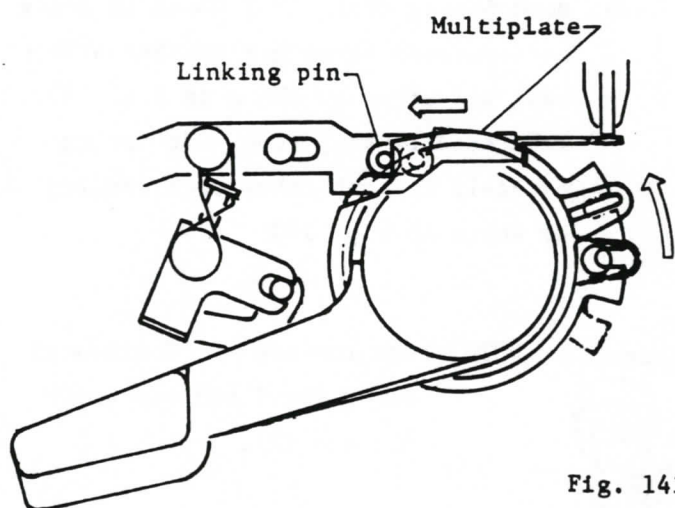


Fig. 143

- 1) At released position, Preventive lever moves until it fully covers the hole, and shutter button can not be released.
- 2) When Multiexposure lever is moved forward, Multi plate moves Linking pin of Operation lever, then Multiple exposure can be possible as shown in Fig. 143.

18 Operating mechanism of Red signal

Before exposure

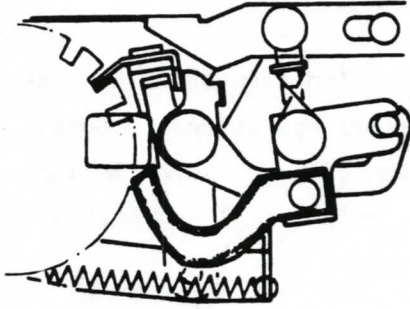


Fig. 144

Exposed

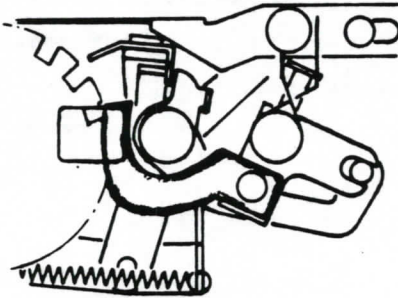


Fig. 145

a) Operation

1) Release lever fits Counter dividing device, and Red signal disappears as shown in Fig. 144.

2) Release lever comes off from Counter dividing device and Red signal appears as shown in Fig. 145.

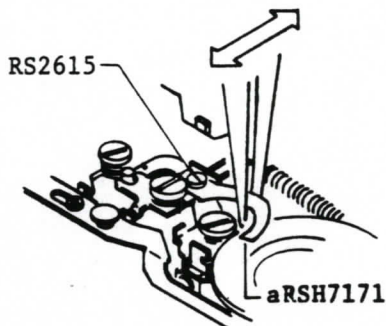


Fig. 146

b) Adjusting

Adjustment can be done by moving Red signal after loosening Screw (RS2615). as shown in Fig. 146.

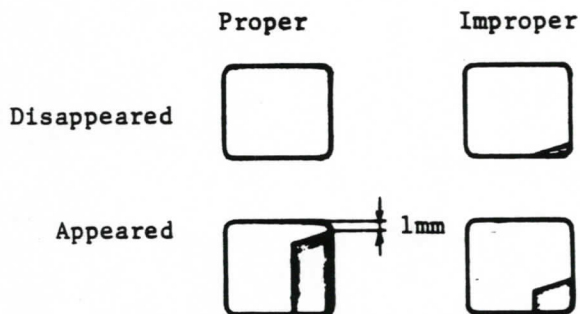


Fig. 147

19 Confirmation of Double exposure
preventive mechanism

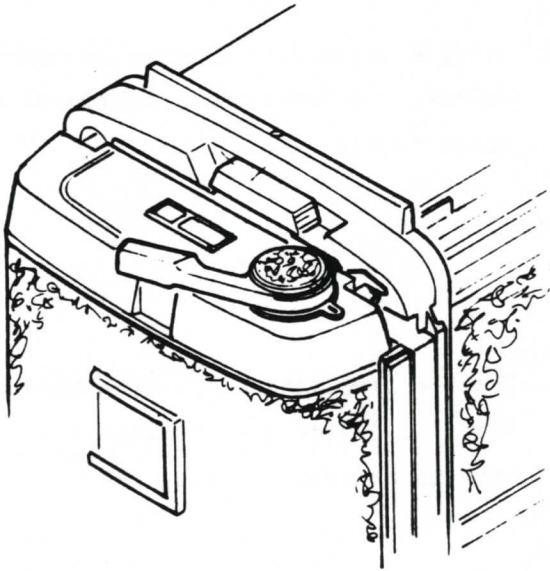


Fig. 148

Final confirmation shall be done for perfect operations on Body, Revolving adapter and Roll film holder, at vertical and horizontal positions.

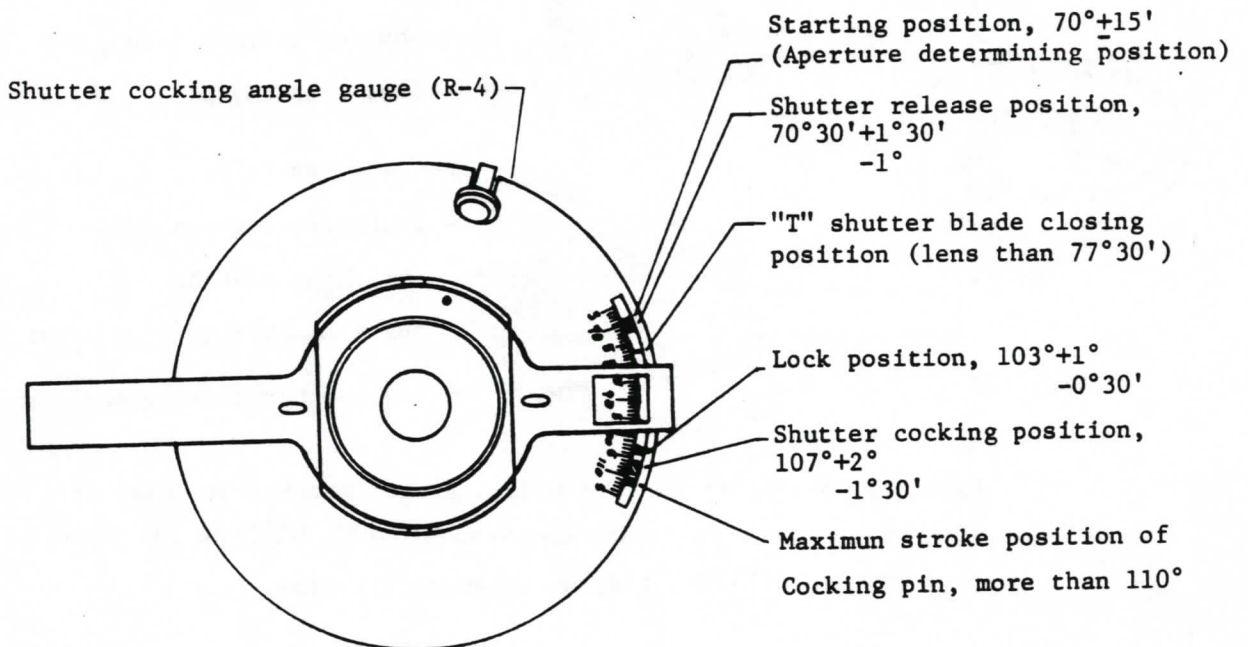
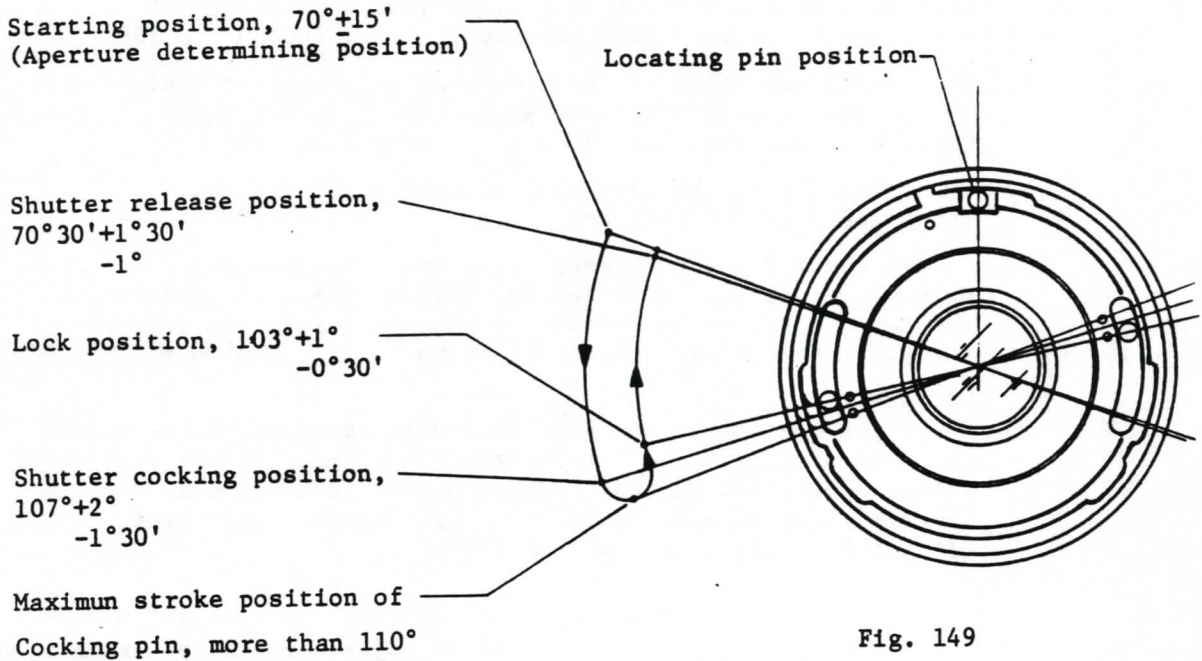
Attach Revolving adapter and Roll film holder to the body for final confirmation of double exposure preventive mechanism at horizontal and vertical positions.

Lens

20 Operating standard for Lens shutter cocking pin

20-1 Operating standard for Lens shutter cocking pin

(Figure illustrates the angle to the guide pin seen from the rear side of the lens.)



20-2 Checking the operating position of shutter cocking

1. Set the angle measuring gauge lever to the start position..
... $70^{\circ}+15'$ and install the lens on the Shutter cocking angle gauge confirming whether the lens locating pin guide and the lens locating pin are just fixed. (Fig. 151.)
2. Turn the gauge lever tip with a finger clockwise and confirm that the shutter is charged within the range of the shutter charge finish position. $105^{\circ}30'$ to 109°
3. Turn the gauge lever to the clockwise direction just after the shutter charge until the gauge lever reaches the maximum stroke position. more than 110°
4. Return gently to the original position until the gauge lever comes to the lock position. $103^{\circ}+1^{\circ}-20'$
5. At the above position 4, keep unlocking lever pushing down with a finder until passing through the lock position, and turn the gauge lever so that the shutter can be released at the point of shutter release position. $70^{\circ}30'+1^{\circ}30'-45'$
6. "T" position
Check the shutter by the same procedure mentioned above from No. 1 through No. 5 . The shutter blade opens at the shutter release position, and the shutter blade closes at the "T" shutter blade closing position by turning the gauge lever clockwise. less than $77^{\circ}30'$

20-3 Adjusting the operating standard of Shutter cocking.

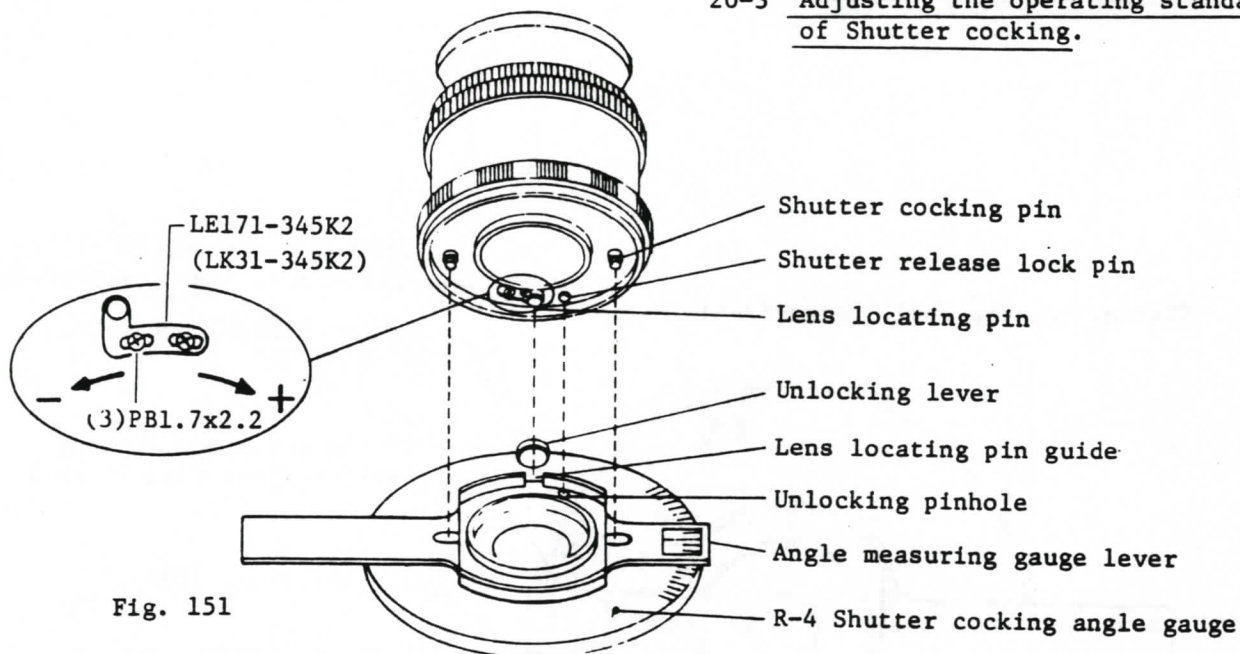


Fig. 151

In order to rectify the error during the checking process, its adjustment needs loosening the screw (3)PB1.7x2.2 of the lens locating pin (LE171-345K2) as shown in Fig. 151.

21 Adjusting method of RB Lens

21-1 Adjusting infinity of lens flange back

a) Setting Measuring Instrument

Set R-6 Lens infinity focusing check supporter on U-2 Auto-Collimator Model Vertical type. Then place the guide ring for the lens to be checked on R-6 Lens infinity focusing check supporter.

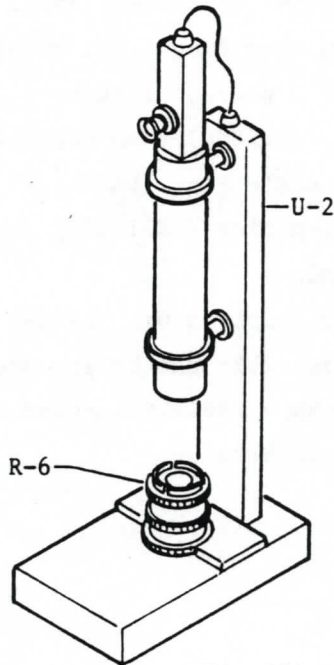


Fig. 152

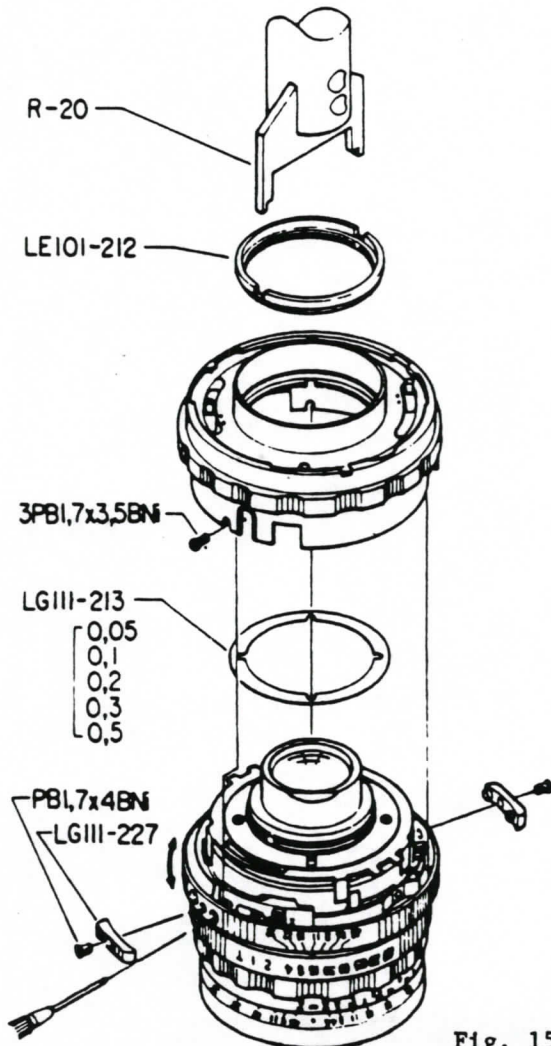
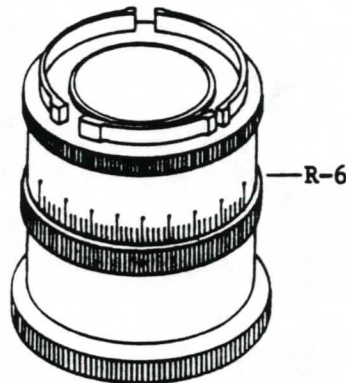
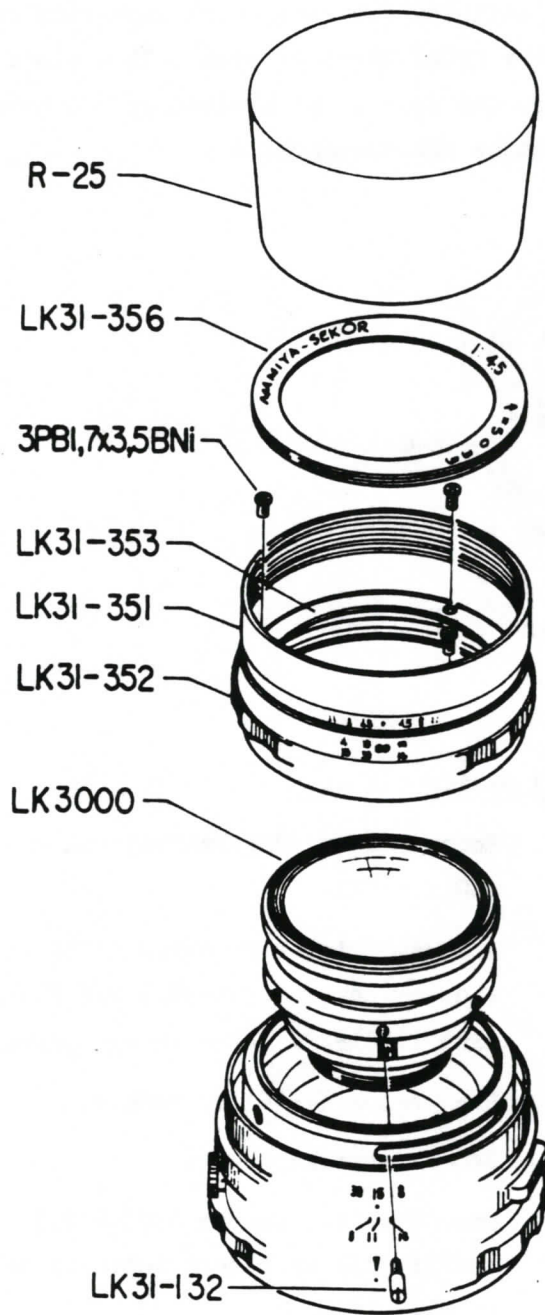


Fig. 153

b) Adjusting infinity

1. Remove Screw (PB1.7x4BNi) and knob (LGI11-227).
2. Remove 3 pieces of Screw (3PB1.7x3.5BNi) shutter cover (LK31-331) and Fixing ring (LK31-221) by turning Aperture ring.
3. Use Wrench (R-20) to remove.
4. Remove shutter cover.
5. Use Adjusting washer 0.05 - 0.5 (LGI11-213) to adjust infinity as shown in Fig. 153.

21-2 Removing Lens assy. for 50mm F4.5 and 65mm F4.5 NB Lenses



1. Use Rubber tightener (R-25) to remove Name ring (LK31-356).
2. Remove 3 pieces of Screw (3PB1.7x3.5BNi), then Depth of field scale ring (LK31-351) and focusing ring (LK31-352) can be removed.
3. Remove Coupling pin (LK31-132)
4. Lens assembly can be removed from the lens barrel by turning it counterclockwise.

21-3 Attaching Lens assembly for 50mm F4.5(LK31) and 65mm F4.5 NB(LH111)

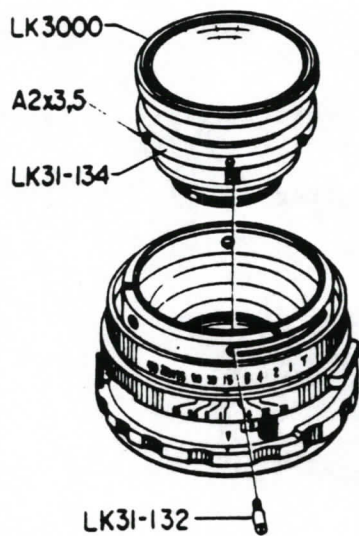


Fig. 155

1. Loosen 3 pieces of Set screw (A2x3.5)
2. Attach Lens assembly to the shutter in the lens barrel by turning Lens assembly clockwise as shown in Fig. 155.
3. Insert a screwdriver in a hole for coupling pin of Focus adjusting ring and move a screwdriver clockwise pressing it strongly until the front lens indicates infinity.

NOTE: A hole for coupling pin shall locate a little bit back from the slit of the barrel as shown in Fig. 158.

Position of Set screw(A2x3.5)

50mm F4.5

65mm F4.5 NB

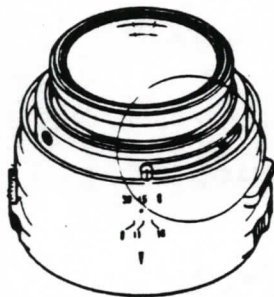


Fig. 156



Fig. 157



Fig. 158

4. Tighten one piece of Set screw (A2x3.5) as shown in Fig. 159
5. Check infinity indication of Focus adjusting ring by turning Linking pin (LK31-132) clockwise.
6. Loosen Set screw tightened before and move coupling pin clockwise and quietly until it touches the end of the slit.
7. Tighten 3 pieces of Set screw.

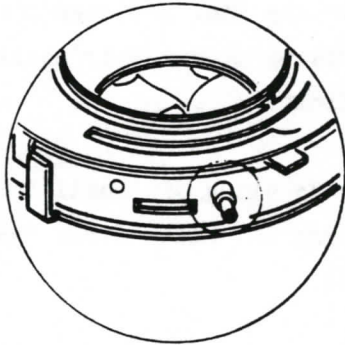


Fig. 159

NOTE: Please refer to Fig. 157 when attaching Floating ring screw (A2x3.5) to 65mm F4.5 lens.

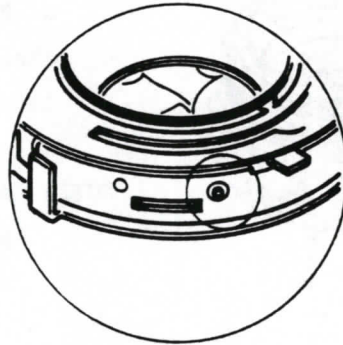
NOTE: Modification for RB67 Lenses Shutter and Shutter cover

Current Shutter



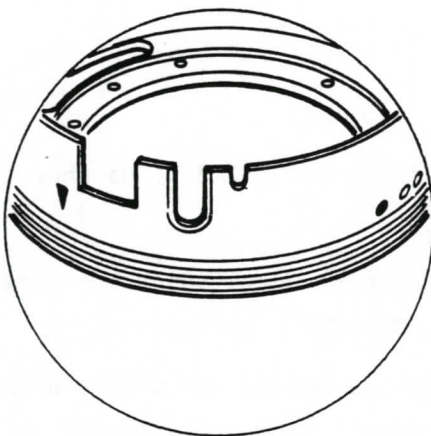
653E-1
-2

Modified Shutter

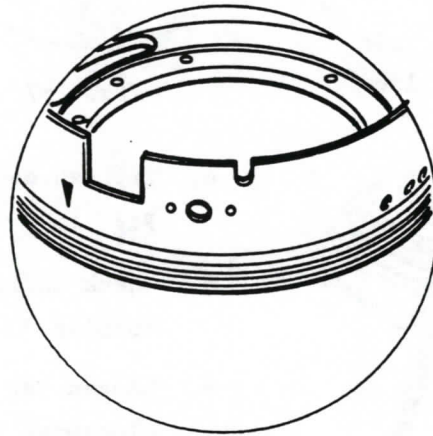


653E-1A
-2A

Current Shutter cover



Modified Shutter cover



LK31-331
LG251-331
LE103-331
•LE171-331
LE122-212

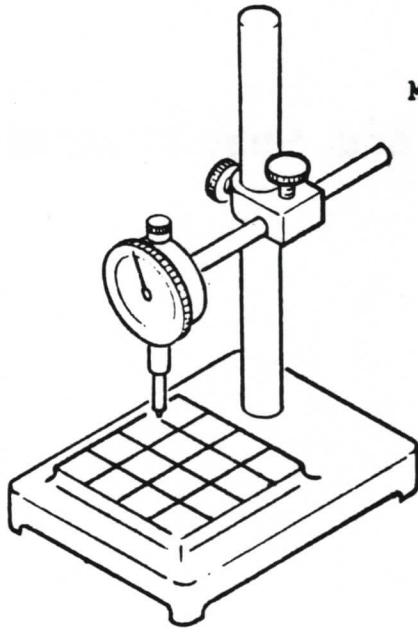
LK31-331-A
LK251-331-A
LE103-331-A
LE171-331-A
LE122-212-A

**Special Tool List and Special Measuring
Instrument List**

MEASURING INSTRUMENTS FOR ALL CAMERA LINES
 OF
 MAMIYA CAMERAS

Instrument No.	Description and Use	Delivery peirod
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U-1



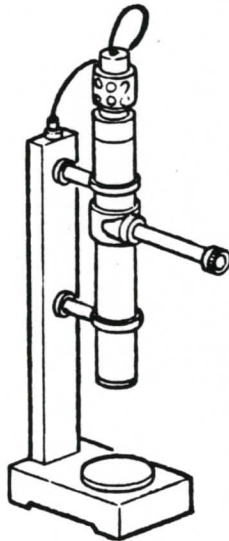
2 months

Measuring instrument with dial gauge

For checking flange focal distance and parallel of lens mounting

U-2

Auto collimator
 Model
 Vertical type



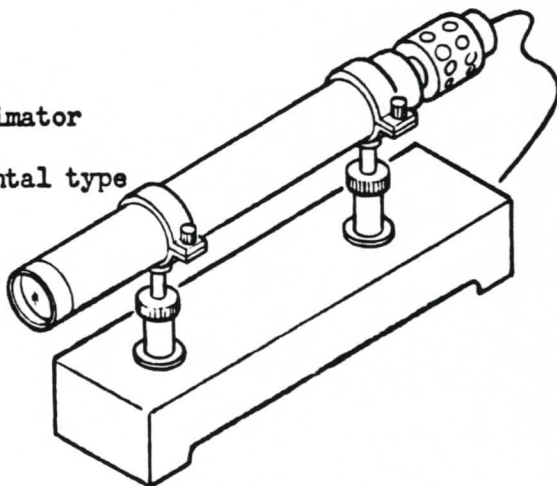
3 months

For inspection of lens infinty

(Please refer to the lens repair manual)

U-3

Collimator
 Model
 Horizontal type



3 months

For inspection of lens and finder infinty

Tool No.
(Old tool No.)

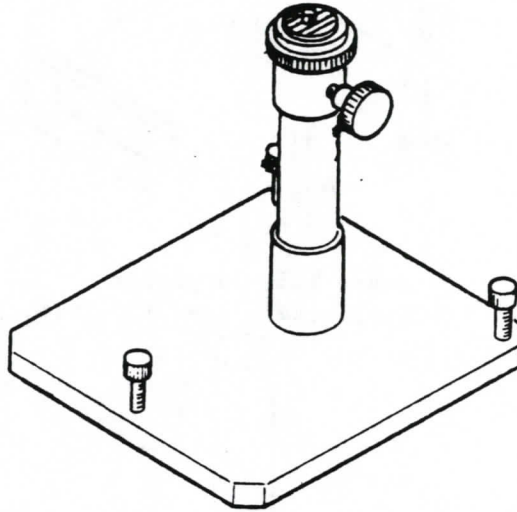
Description & Use

Delivery Period

Unit Price
FOB/Japan US\$

11-6

For Adjusting
focus of the
View finder



Camera body Supporter

Tool No.
(Old tool No.)

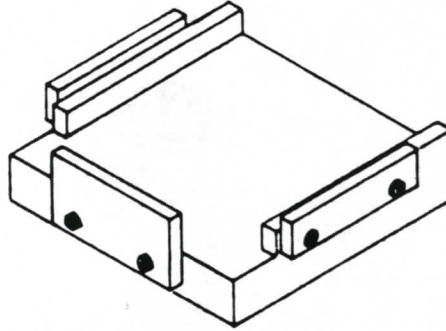
Description & Use

Delivery Period

Unit Price
FOB/Japan US\$

R-1

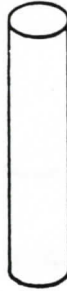
1.5 months



Camera body supporter
(Exclusively used for Inst. No.U-1)

R-2

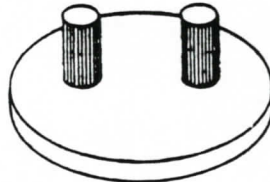
1.5 months



Standard gauge bar
(Exclusively used for Inst. No.U-1)

R-3

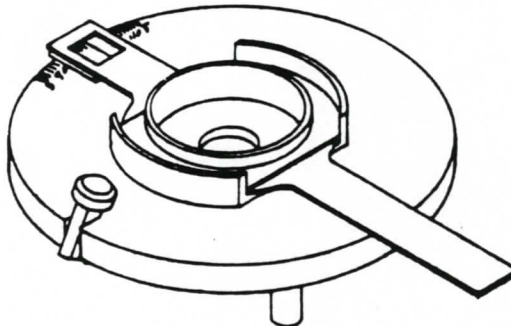
1.5 months



Parallel disc gauge
(Exclusively used for Inst. No. U-1)

R-4

1.5 months



Shutter cocking angle gauge
(Please refer to the Lens-repair manual)

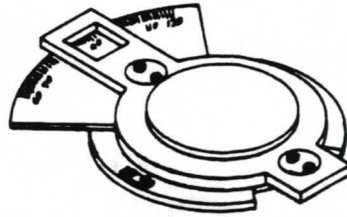
Tool No.
(Old tool No.)

Description & Use

Delivery Period

Unit Price
FOB/Japan US\$

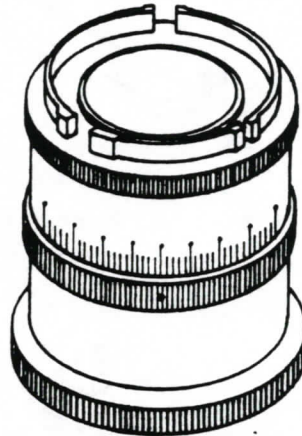
R-5



1.5 months

Body-cocking angle gauge
(Please refer to the Body-repair manual)

R-6

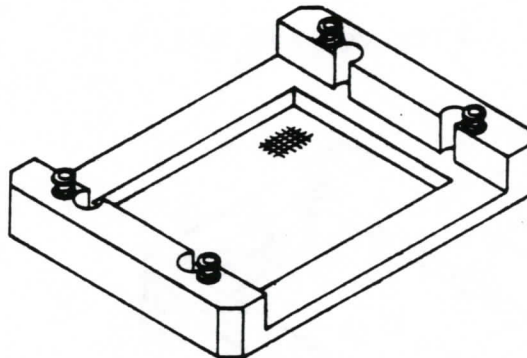


2.0 months

Lens infinity-focusing check supporter
(Please refer to the Lens-repair manual)

For Auto-Collimator
(Vertical type)

R-8

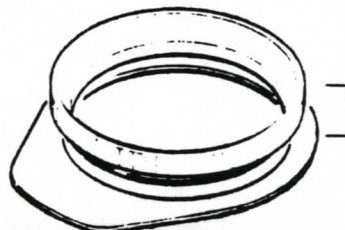


1.5 months

For checking Body-focusing
and Lens-focusing

Focusing checking ground glass frame.

R-9



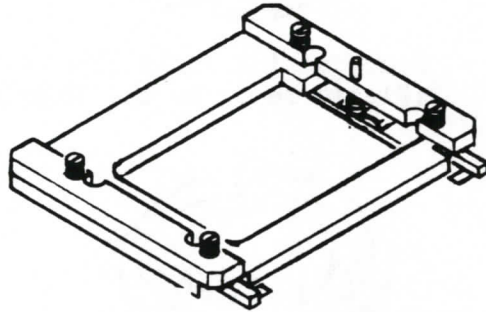
For using Dial gauge
checking Body-focusing
and Focusing screen

Focusing checking plat and ring

SPECIAL TOOLS AND MEASURING
INSTRUMENTS FOR MAMIYA RB67 Pro S CAMERA

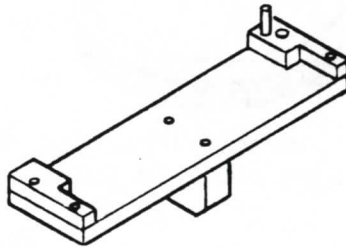
Instrument No. Description & Use

aRS-1



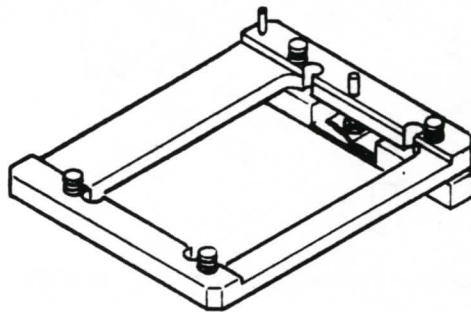
Jig for vertical and horizontal position

aRS-2

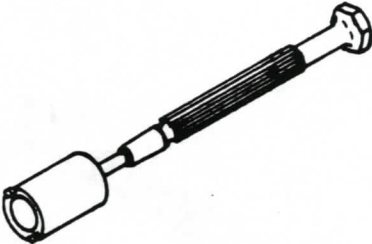

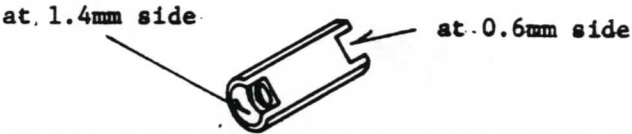

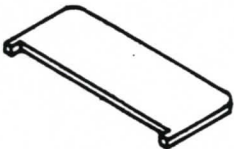
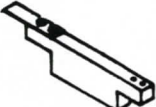


Release lock bar adjusting tool

aRS-3

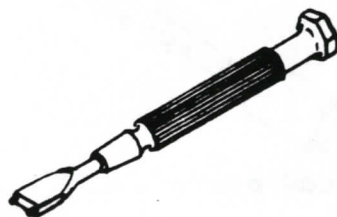


Release lock positioning gauge.

<u>Tool No.</u> (Old tool No.)	<u>Description & Use</u>	<u>Delivery Period</u>	<u>Unit Price</u> <u>FOB/Japan US\$</u>
R-11 (RS-1172)	 Pin faced driver	1.0 month	For tightening and loosening RS-1172 Nut
R-12 (RS-1342)	 Driver	1.0 month.	For tightening and loosening RS-1342 Nut
R-13 (RS-1465)	 Shutter release button check gauge	1.0 month	Shutter must be released by pushing the shutter release button with shallow cut side-B and not be released with deep cut side-A
R-14 (RS-1616)	 Wrench	1.0 month	For tightening and loosening Tripod socket (RS-1616)
R-15 (RS-2139)	 Wrench	1.0 month	For wrenching Retaining nut (RS-2139)
R-16 (RS-2531)	 Coupling arm check gauge	1.0 month	For checking signal lever (RS-2531)

<u>Tool No.</u> (Old tool No.)	<u>Description & Use</u>	<u>Delivery Period</u>	<u>Unit Price</u> FOB/Japan US\$
-----------------------------------	------------------------------	------------------------	-------------------------------------

R-18



1.0 month

For adjusting RS-2623-
Screw

Adjusting driver

R-19

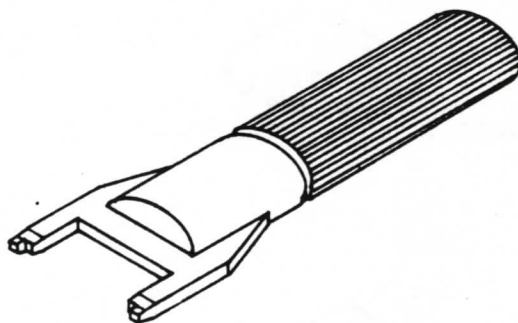


1.0 month

For adjustment of
focusing screen

Adjusting tool

R-20

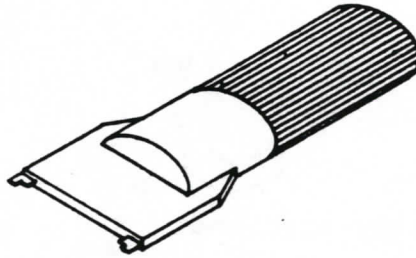


1.0 month

For wrenching Shutter
fixing nut
For 50mm 65mm 90mm
127mm 180mm Lens

Wrench

R-21
(LH61-124)

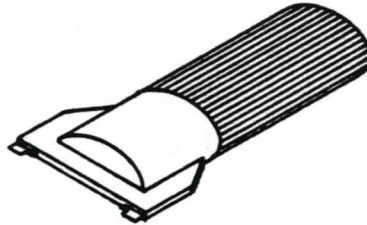


1.0 month

For 65mm f4.5 lens

Rear lens spanner

R-22
(LG111-116)

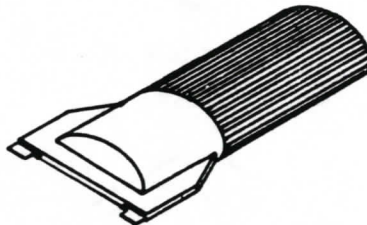


1.0 month

For 90mm f3.8 lens

Rear lens spanner

R-23
(LE101-114)

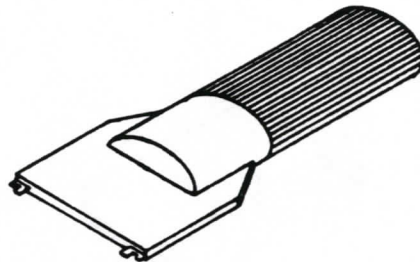


1.0 month

For 127mm f3.8 lens

Rear lens spanner

R-24
(LE121-121)



1.0 month

For 250mm f4.5 lens

Rear lens spanner

R-25

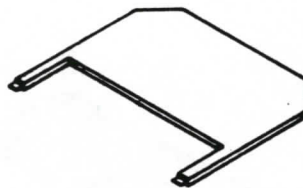


Rubber tightener

1.0 month

For tightening and loosening lens-name ring

R-26

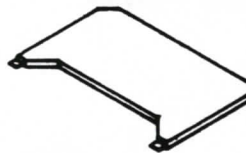


Front lens wrench

1.5 months

For 65mm f4.5 lens

R-27

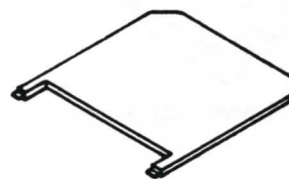


Front lens wrench

1.5 months

For 90mm f3.8 lens

R-28

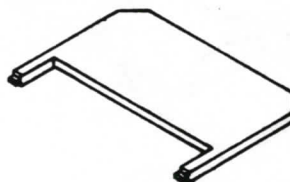


Front lens wrench

1.5 months

For 127mm f3.8 lens

R-29

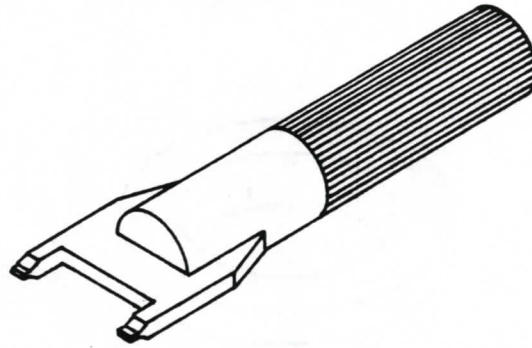


Front lens wrench

1.5 months

For 180mm f4.5 lens

R-30



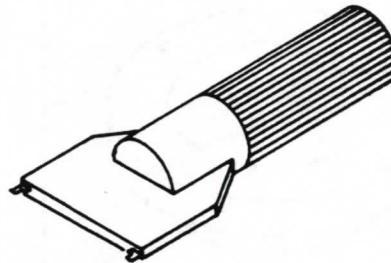
Wrench

1.5 month

For 360mm F6.3 Lens
250mm f4.5 Lens

Wrenching mounting
fixing nut.

R-31

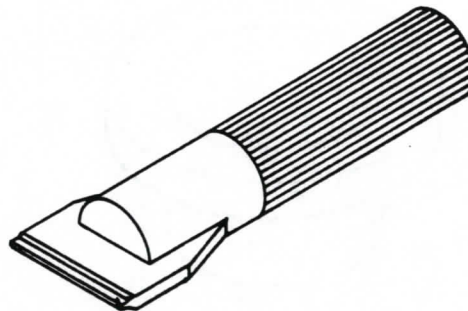


Rear lens spanner

1.5 month

For 360mm F6.3 Lens

R-32



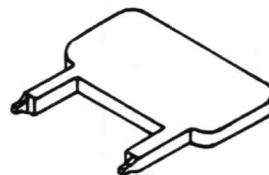
Wrench

1.5 month

For 360mm F6.3 Lens
250mm f4.5 Lens

Wrenching shutter
fixing nut

R-33



Rear lens wrench

1 month

For 50mm F4.5 Lens

R-34



Standard gauge bar
(Exclusively used for Inst. No U-1)

1.5 month

For checking length
and parallel
of shutter cover and
Fixing ring

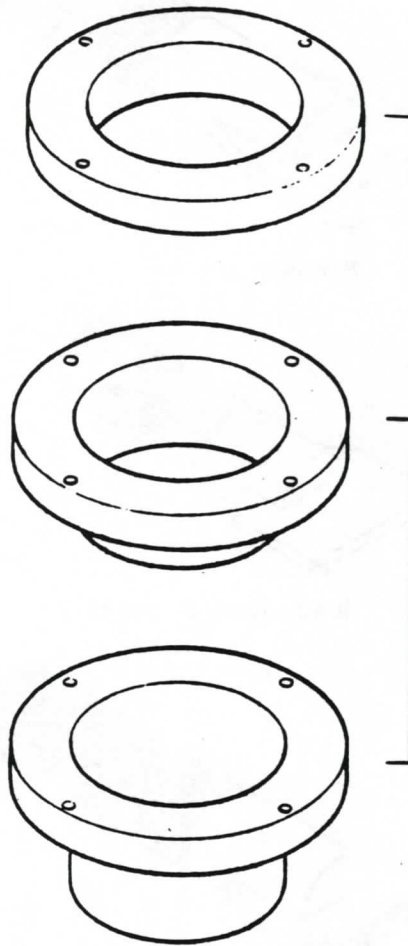
Tool No.
(Old tool No.)

Description & Use

Delivery Period

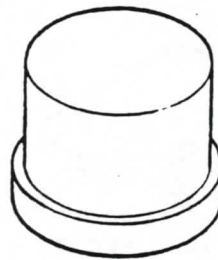
Unit Price
FOB/Japan US\$

R-35



Protective cover ring
1 set (3pcs)
For RB lens

R-36



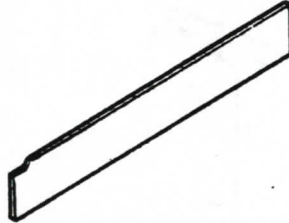
Parallele gauge
For 50mm and 65mm

SPECIAL TOOLS AND MEASURING
INSTRUMENTS FOR MAMIYA RB67 Pro S CAMERA

Tools No.

Description & Use

aRS-11



Chicking for red signal bar

Gauge for red signal bar.

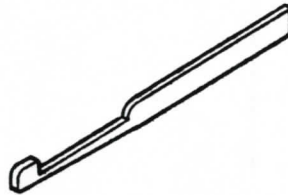
aRS-12



Adjusting for red signal bar

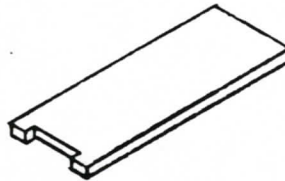
Adjusting plier

aRS-13



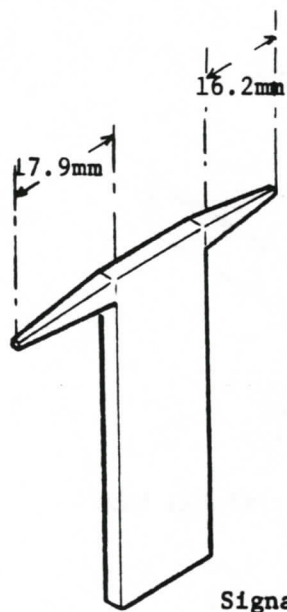
Stop lever positioning gauge.

aRS-14



Lock positioning gauge

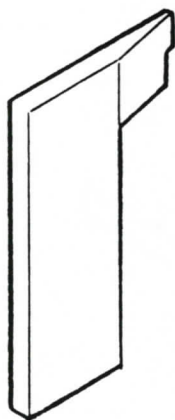
aRSH-15



Signal gauge

For checking Wind-stop
release and Signal lever
positioning

aRSH-16



Gauge for double exposure
prevention device

Mamiya

PARTS CATALOG

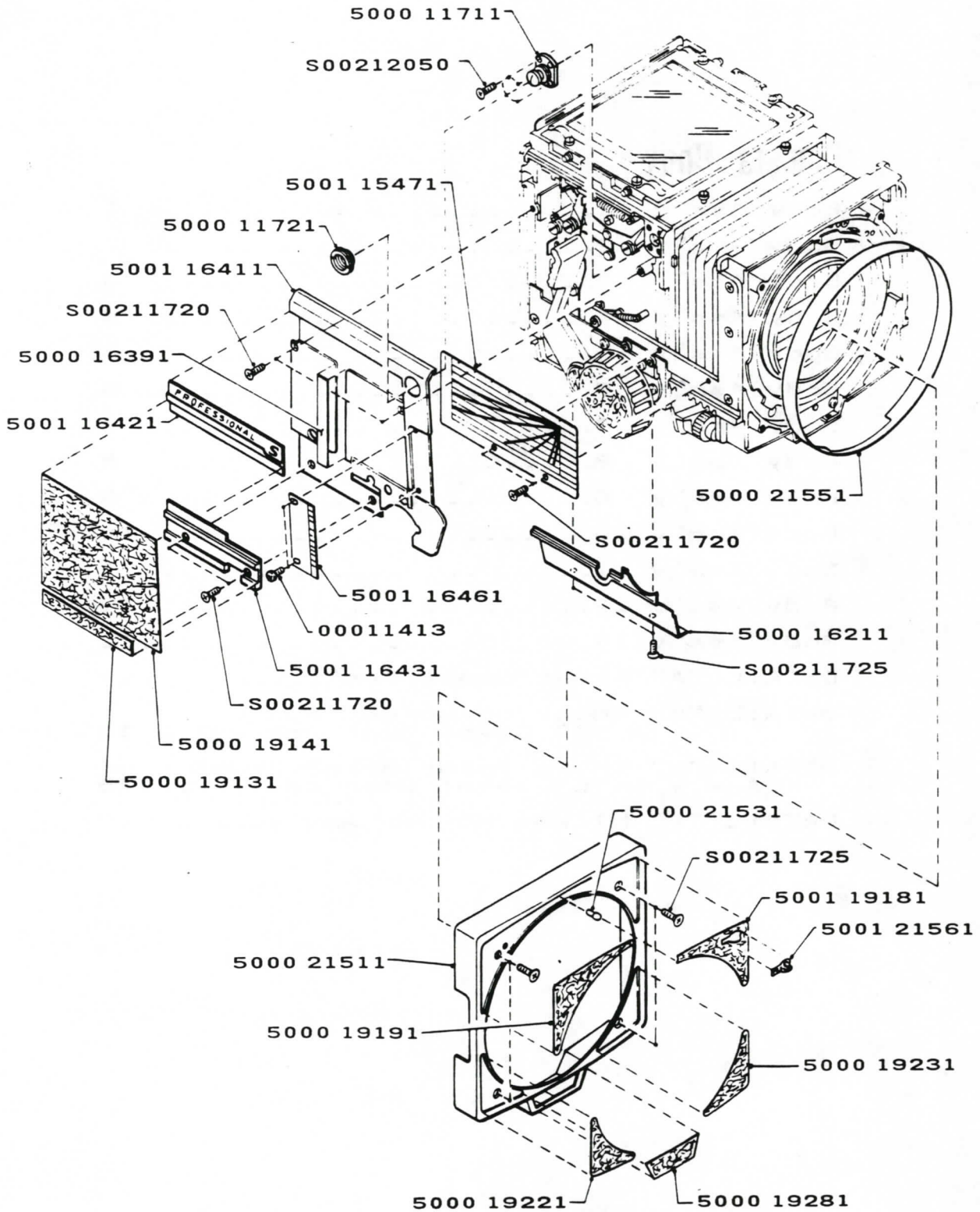
RB67 PRO*S*



MAMIYA AMERICA CORPORATION
8 Westchester Plaza, Elmsford, NY 10523 • 914-347-3300

Camera Body

Body Ass'y 1.....	1
Body Ass'y 2.....	2
Body Ass'y 3.....	3
Body Ass'y 4.....	4
Body Ass'y 5.....	5
Body Ass'y 6.....	6
Body Ass'y 7.....	7
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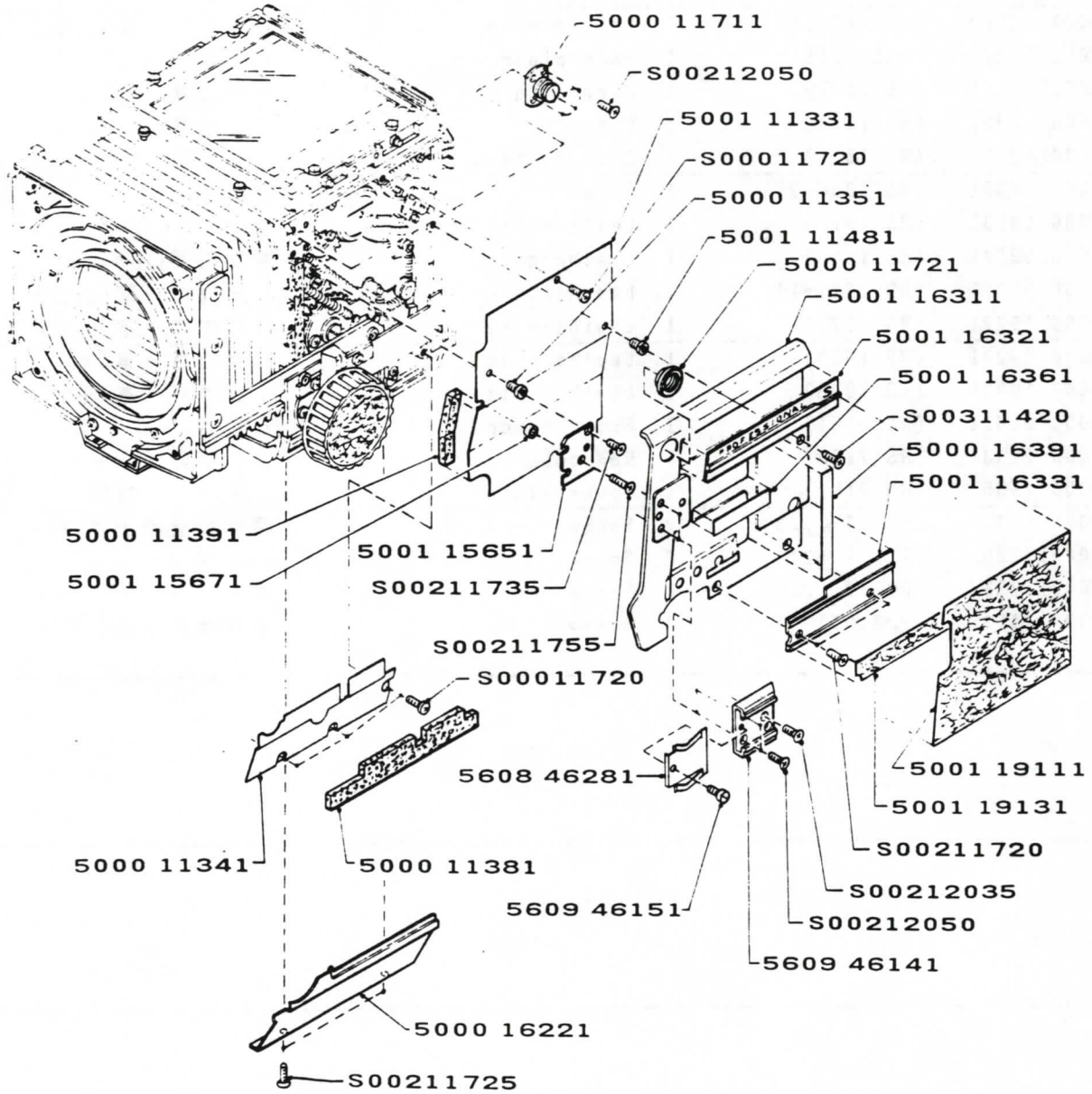
PARTS LIST

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Parts No.	Common Use Parts No.	QTY.	Description	部 品 名 称
5001 15471	(aRS 1547)	1	Distance scale plate	距離板
5001 16411	(aRS 1641)	1	Left side panel	左側板
5001 16421	(aRS 1642)	1	Decorative plate U	左側板モール(上)
5001 16431	(aRS 1643)	1	Decorative plate L	左側板モール(下)
5001 16461	(aRS 1646)	1	Distance scale	距離目盛板
5001 19181	(aRS 1921-1)	1	Leatherette	L Bカバー革(上右)
5001 21561	(aRS 2156)	1	Name plate	型式ネーム
5000 11711	(RS 1171)	1	Strap lug	吊り金具
5000 11721	(RS 1172)	1	Nut	吊り金具ナット
5000 16211	(RS 1621)	1	Side plate L	左下側板
5000 16391	(RS 1636-2)	1	Sheet B	側板溝紙B
5000 19131	(RS 1913)	1	Leatherette	左側板革(下)
5000 19141	(RS 1914)	1	Leatherette	左側板革(中)
5000 19191	(RS 1921-1)	1	Leatherette	L Bカバー革(上左)
5000 19221	(RS 1922)	1	Leatherette	L Bカバー革(左)
5000 19231	(RS 1923)	1	Leatherette	L Bカバー革(右)
5000 19281	(RS 1928)	1	Leatherette	L Bカバー革(下)
5000 21511	(RS 2151)	1	Front cover	L Bカバー
5000 21531	(RS 2153)	1	Red bead	レンズ着脱マーク
5000 21551	(RS 2155)	1	Cover plate	L Bカバー盲板
00011413	(PB1.4 × 1.3)	2	Screw	距離目盛板止ネジ
S00211720	(PD1.7 × 2)	6	Screw	止ネジ
S00211725	(PD1.7 × 2.5)	6	Screw	止ネジ
S00212050	(PD2 × 5)	4	Screw	吊り金具止ネジ

Remarks

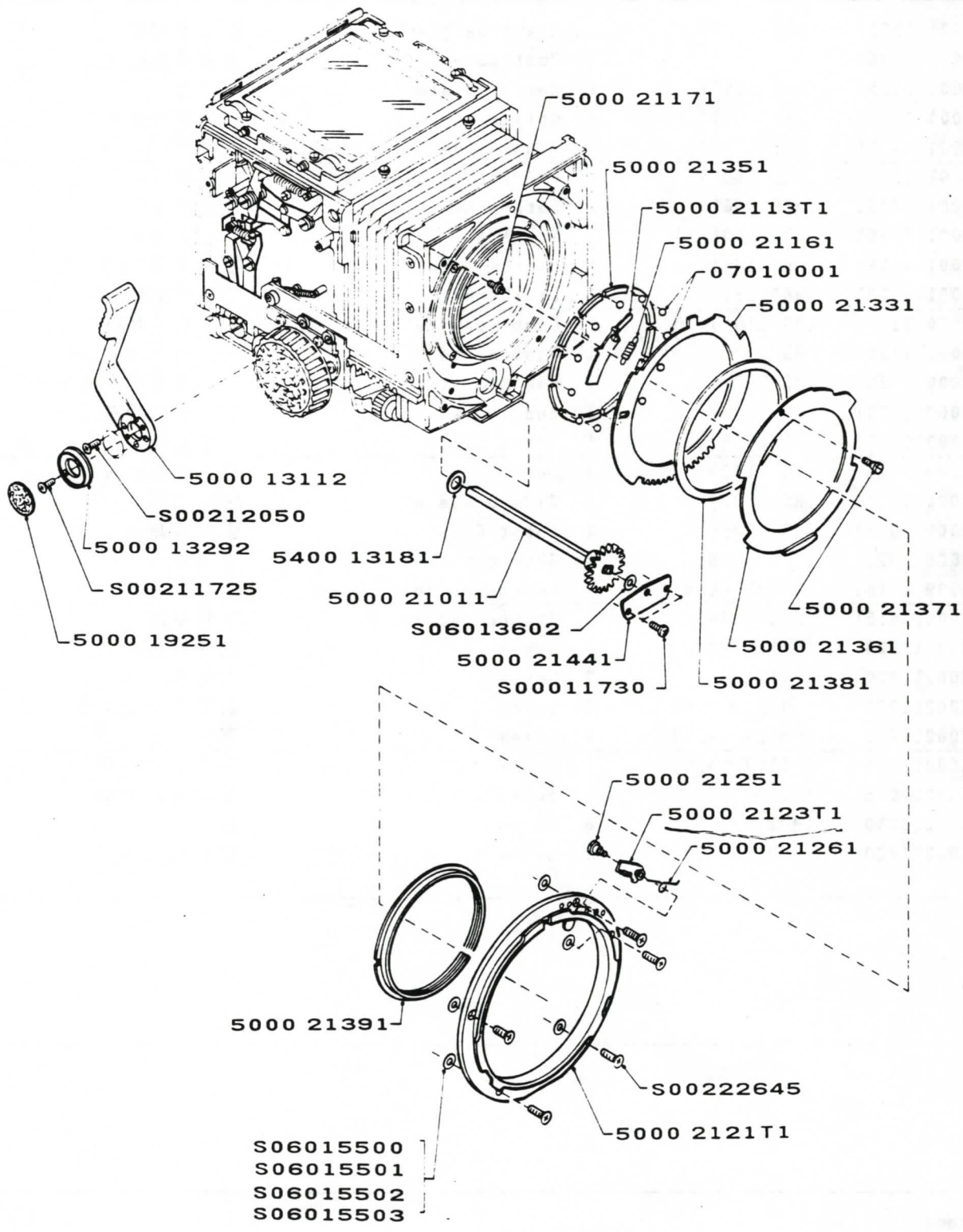
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PARTS LIST

Parts No.	Common Use Parts No.	QTY.	Description	部 品 名 称
5001 11331	(aRS 1133)	1	Light baffle U	右上遮光板
5001 11481		1	Post screw	右上遮光板止ネジ
5001 15651	(aRS 1565)	1	Holder plate	下駄台
5001 15671	(aRS 1567)	1	Coller	遮光板カラー
5001 16311	(aRS 1631)	1	Right side panel	右側板
5001 16321	(aRS 1632)	1	Decorative plate U	右側板モール(上)
5001 16331	(aRS 1633)	1	Decorative plate L	右側板モール(下)
5001 16361	(aRS 1636-1)	1	Sheet A	側板溝紙A
5001 19111	(aRS 1911)	1	Leatherette	右側板革(中)
5001 19131	(aRS 1913)	1	Leatherette	右側板革(下)
5000 11341	(RS 1134)	1	Light baffle L	右下遮光板
5000 11351	(RS 1135)	1	Post screw	右遮光板止ネジ
5000 11381	(RS 1138)	1	Sealing strip	右下遮光板モルト
5000 11391	(RS 1139)	1	Sealing strip	右上遮光板モルト
5000 11711	(RS 1171)	1	Strap lug	吊り金具
5000 11721	(RS 1172)	1	Nut	吊り金具ナット
5000 16221	(RS 1622)	1	Side plate R	右下側板
5000 16391	(RS 1636-1)	1	Sheet B	側板溝紙B
5608 46281	(EFC 4628)	1	Shoe cover	下駄カバー
5609 46141	(EFC-K 4614)	1	Accessory shoe	下駄
5609 46151	(EFC-K 4615)	1	Stopper screw	下駄ダボ
S00011720	(PB1.7×2)	4	Screw	遮光板止ネジ
S00211720	(PD1.7×2)	2	Screw	右側板止ネジ
S00211725	(PD1.7×2.5)	2	Screw	右下側板止ネジ
S00211735	(PD1.7×3.5)	1	Screw	下駄台止ネジ
S00211755	(PD1.7×5.5)	1	Screw	下駄台止ネジ
S00212035	(PD2×3.5)	1	Screw	下駄台止ネジ
S00212050	(PD2×5)	6	Screw	止ネジ
S00311420	(3PD1.4×2)	1	Screw	右側板止ネジ

Remarks



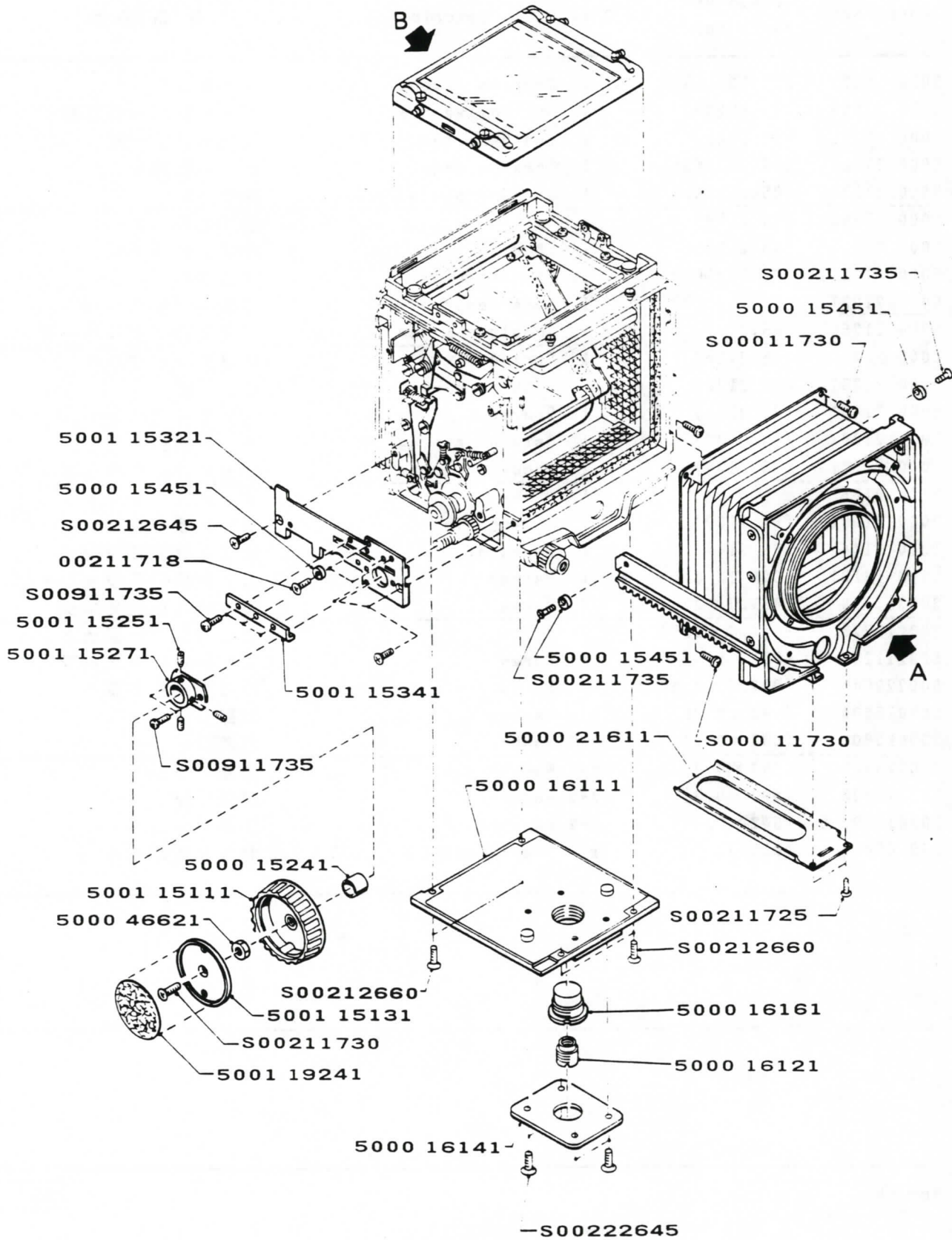
PARTS LIST

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Parts No.	Common Use Parts No.	QTY.	Description	部 品 名 称
5000 13112	(RS 1311L)	1	Cocking lever	セットレバー
5000 13292	(RS 1329F)	1	Decorative disk	セットレバー飾り蓋
5000 19251	(RS 1925)	1	Leatherette	セットレバー革
5000 21011	(RS 2141K2)	1	Cocking gear	セット板歯車
5000 2113T1	(RS 2113K2)	1	Stopper plate	遊び止め
5000 21161	(RS 2116)	1	Spring	遊び止めバネ
5000 21171	(RS 2117)	1	Stud	遊び止めバネ柱
5000 2121T1	(RS 2121K2)	1	Bayonet ring	バヨネ爪
5000 2123T1	(RS 2123K2)	1	Lock lever	バヨネロックレバー
5000 21251	(RS 2125)	1	Shoulder screw	バヨネロックレバー軸
5000 21261	(RS 2126)	1	Spring	バヨネロックバネ
5000 21331	(RS 2133)	1	Cocking ring	セット板
5000 21351	(RS 2135)	1	Spacer	ボールスペサー
5000 21361	(RS 2136)	1	Retaining ring	セット板押え板
5000 21371	(RS 2137)	1	Shoulder screw	セット板押え板止めネジ
5000 21381		1	Washer	セット板ワッシャ
5000 21391	(RS 2139)	1	Fixing ring	セット板押えリング
5000 21441	(RS 2144)	1	Pedestal	セット板歯車軸受
5400 13181	(CSN 1318)	1	Washer	セット板歯車ワッシャ
S00011730	(PB1.7×3)	2	Screw	歯車押え板止めネジ
S00211725	(PD1.7×2.5)	2	Screw	セットレバー蓋止ネジ
S00221250	(PD2×5)	4	Screw	セットレバー止ネジ
S00222645	(PD2.6×4.5Cr)	5	Screw	バヨネ爪止ネジ
S06015500	(5W3×0.05)	0~2	Washer	調整ワッシャ
S06015501	(5W3×0.1)	0~2	Washer	調整ワッシャ
S06015502	(5W3×0.2)	0~2	Washer	調整ワッシャ
S06015503	(5W3×0.3)	0~2	Washer	調整ワッシャ
S06013602	(6W2×0.2)	0~2	Washer	調整ワッシャ
07010001	(B016)	12	Steel ball (φ1/16")	セット板ボール

Remarks

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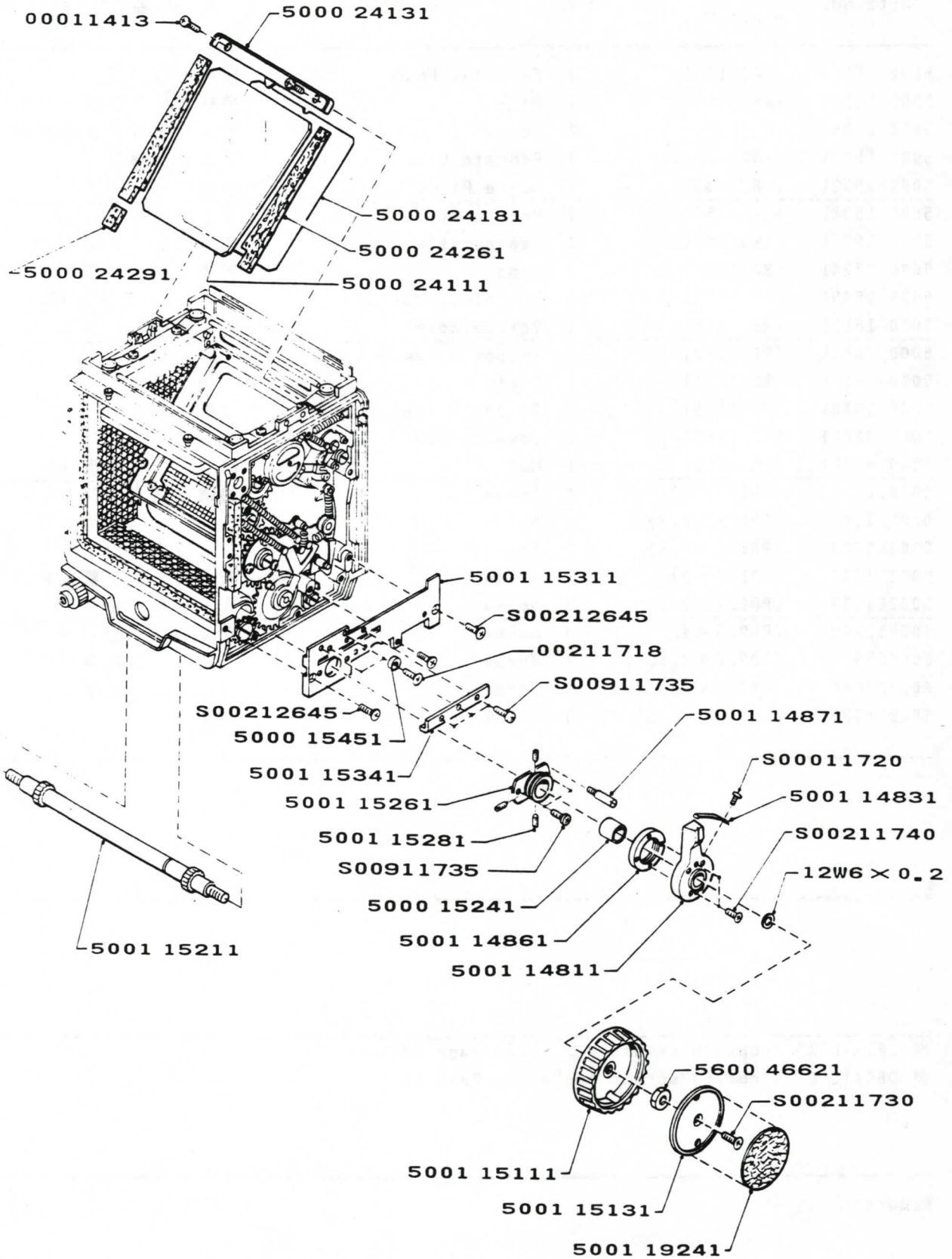
PARTS LIST

Parts No.	Common Use Parts No.	QTY.	Description	部 品 名 称
5001 15111	(aRS 1511)	1	Focusing knob	繰り出しノブ
5001 15131	(aRS 1513)	1	Disk	繰り出しノブ蓋
5001 15251		3	Screw	デルリンパイプ止ネジ
5001 15271	(aRS 1527)	1	Pedesta L	ピニオン軸受
5001 15321	(aRS 1532)	1	Guide Plate L	左フロート
5001 15341	(aRS 1534)	1	Hold plate	ラック押え
5001 19241	(aRS 1924)	1	Leatherette	繰り出しノブ革
5000 15241	(RS 1524)	1	Pipe	デルリンパイプ
5000 15451	(RS 1545)	4	Eccentric collar	エキセン ストッパー
5000 16111	(RS 1611)	1	Bottom cover	下部カバー
5000 16121	(RS 1612)	1	Tripod screw	三脚ネジ
5000 16141	(RS 1614)	1	Plate	三脚止板
5000 16161	(RS 1616)	1	Tripod socket	三脚ネジ台
5000 21611	(RS 2161)	1	Cover plate	アゴ板
5000 46621	(FC 4662)	1	Nut	繰り出しノブナット
S00011730	(PB1.7×3)	4	Screw	前遮光板止ネジ
00211718	(PD1.7×1.8)	2	Screw	E ストッパー止ネジ
S00211725	(PD1.7×2.5)	2	Screw	アゴ板止ネジ
S00211730	(PD1.7×3)	1	Screw	繰り出しノブ蓋止ネジ
S00211735	(PD1.7×3.5)	2	Screw	ストッパー止ネジ
S00212645	(PD2.6×4.5)	3	Screw	左フロート止ネジ
S00222645	(PD2.6×4.5Cr)	4	Screw	三脚止め板止ネジ
S00212660	(PD2.5×6)	4	Screw	下部カバー止ネジ
S00911735	(4PB1.7×3.5)	5	Screw	止ネジ

※ DETAIL "A" Front Panel Ass'y Page 14

※ DETAIL "B" Focusing screen Ass'y ... Page 15

Remarks



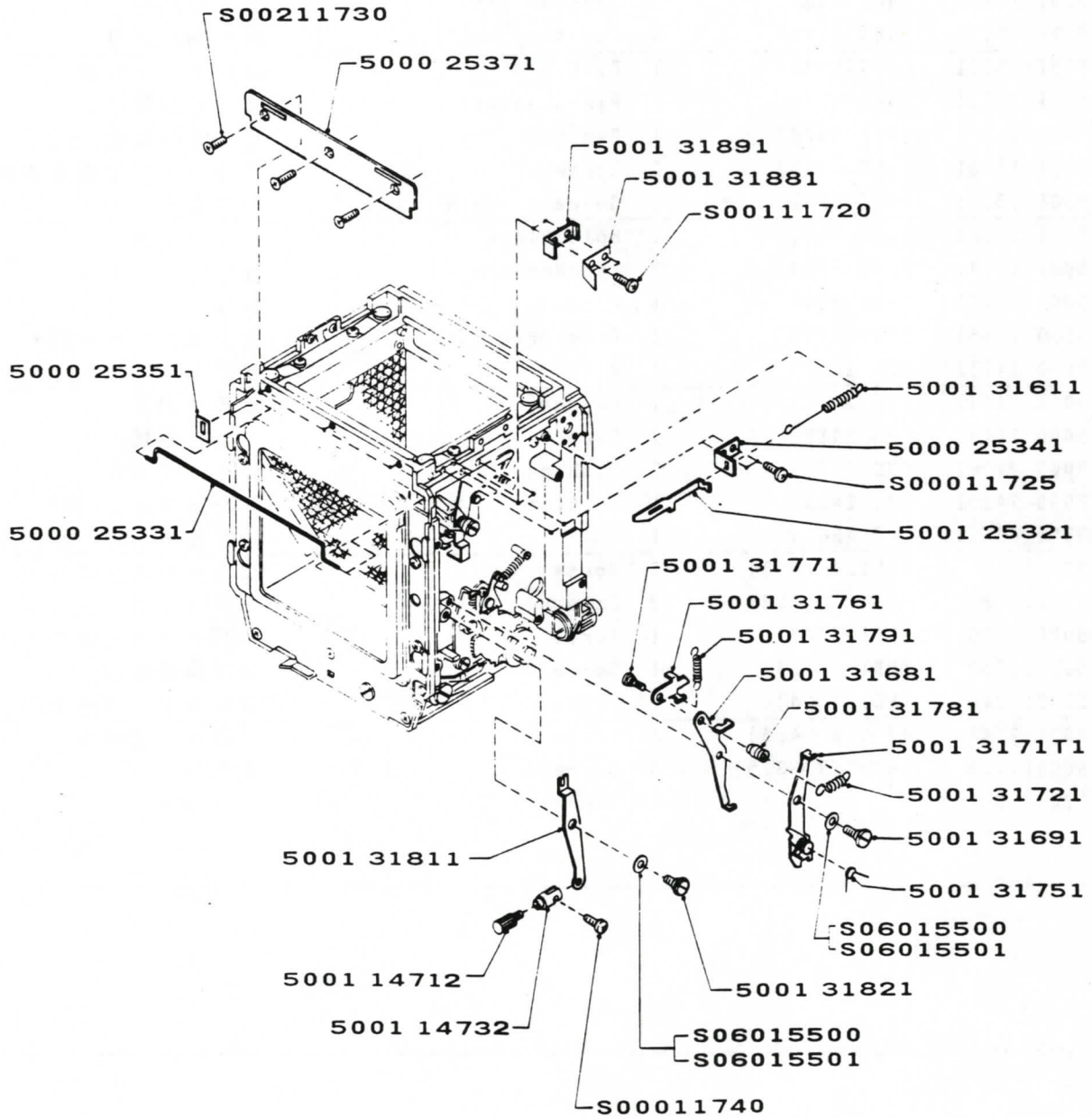
PARTS LIST

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Parts No.	Common Use Parts No.	QTY.	Description	部品名称
5001 14811	(aRS 1481)	1	Setting lever	ブレーキレバー
5001 14831	(aRS 1483)	1	Leaf spring	ブレーキレバーバネ
5001 14861	(aRS 1486)	1	Setting ring	ブレーキレバーリング
5001 14871	(aRS 1487)	1	Stopper pin	ストッパー
5001 15111	(aRS 1511)	1	Focusing knob	繰り出しノブ
5001 15131	(aRS 1531)	1	Disk	繰り出しノブ蓋
5001 15211	(aRS 1521)	1	Pinion shaft	ピニオン軸
5001 15261	(aRS 1526)	1	Pedestal R	ピニオン軸受(右)
5001 15281	(aRS 1528)	3	Screw	デルリンパイプ止ネジ
5001 15311	(aRS 1531)	1	Guide plate R	右フロート
5001 15341	(aRS 1534)	1	Hold plate	ラック押え
5001 19241	(aRS 1924)	1	Leatherette	繰り出しノブ革
5000 15241	(RS 1524)	1	Pipe	デルリンパイプ
5000 15451	(RS 1545)	2	Eccentric collar	エキセンストッパー
5000 24111	(RS 2411)	1	Mirror	ミラー
5000 24131	(RS 2413)	1	Holder	ミラー押え(上)
5000 24181	(RS 2418)	1	Paper	ミラー裏紙
5000 24261	(RS 2426)	2	Cushion	ミラーモルト
5000 24291	(RS 2429)	1	Cushion	ミラーモルト(横)
5600 46621	(FC 4662)	1	Nut	繰り出しノブナット
00011413	(PB1.4 × 1.3)	2	Screw	ミラー押え止ネジ
00211718	(PB1.7 × 1.8)	2	Screw	Eストッパー止ネジ
S00011720	(PB1.7 × 2)	1	Screw	レバーバネ止ネジ
S00211730	(PB1.7 × 3)	1	Screw	ノブ蓋止ネジ
S00211740	(PD1.7 × 4)	2	Screw	ブレーキレバー止ネジ
S00212645	(PD2.6 × 4.5)	3	Screw	フロート止ネジ
S00911735	(4PB1.7 × 3.5)	5	Screw	止ネジ
12W6 × 0.2		1	Washer	ワッシャ

Remarks

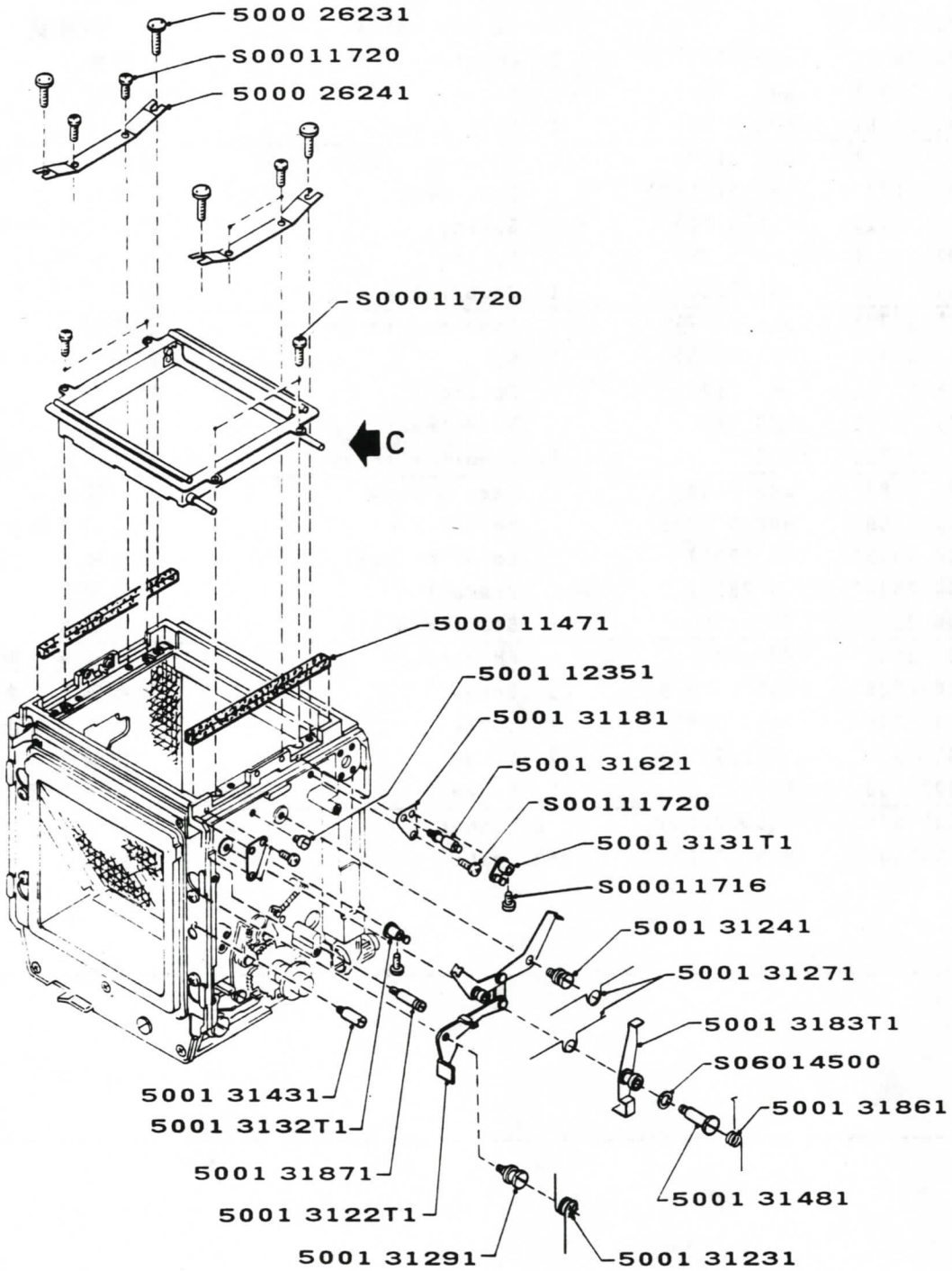
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PARTS LIST

Parts No.	Common Use Parts No.	QTY.	Description	部 品 名 称
5001 14712		1	RL ber	R L 押棒
5001 14732		1	RL bar holder	R L 押棒受
5001 25321	(aRS 2532)	1	Coupling arm L	左押板
5001 31611	(aRS 3161)	1	Spring	左押板バネ
5001 31681	(aRS 3168)	1	No.1 lever	第一レバー
5001 31691	(aRS 3169)	1	Shoulder screw	第一レバー軸
5001 3171T1	(aRS 3171K2)	1	Sub lever	サブレバー
5001 31721	(aRS 3172)	1	Spring	サブレバーバネ
5001 31751	(aRS 3175)	1	Spring	ストップレバーバネ
5001 31761	(aRS 3176)	1	Coupling plate	振子
5001 31771	(aRS 3177)	1	Shoulder screw	振子軸
5001 31781	(aRS 3178)	1	Nut	振子ナット
5001 31791	(aRS 3179)	1	Spring	振子バネ
5001 31811	(aRS 3181)	1	No.2 lever	第二レバー
5001 31821	(aRS 3182)	1	Shoulder screw	第二レバー軸
5001 31881	(aRS 3188)	1	Leaf spring	定位置バネ
5001 31891	(aRS 3189-1)	1	Holder	定位置バネ受
5000 25331	(RS 2533)	1	Coupling rod	連結棒
5000 25341	(RS 2534)	1	Bracket	押板支え
5000 25351	(RS 2535)	1	Stopper plate	押板つば
5000 25371	(RS 2537)	1	FH hanger	フード受け板
S00011725	(PB1.7×2.5)	2	Screw	押板支え止ネジ
S00011740	(PB1.7×4)	1	Screw	R L 押し棒止ネジ
S00111720	(3PB1.7×2)	2	Screw	定位置バネ止ネジ
S00211730	(PD1.7×3)	3	Screw	フード受板止ネジ
S06015500	(5W3×0.05)	0~2	Washer	調整ワッシャ
S06015501	(5W5×0.1)	0~2	Washer	調整ワッシャ

Remarks



PARTS LIST

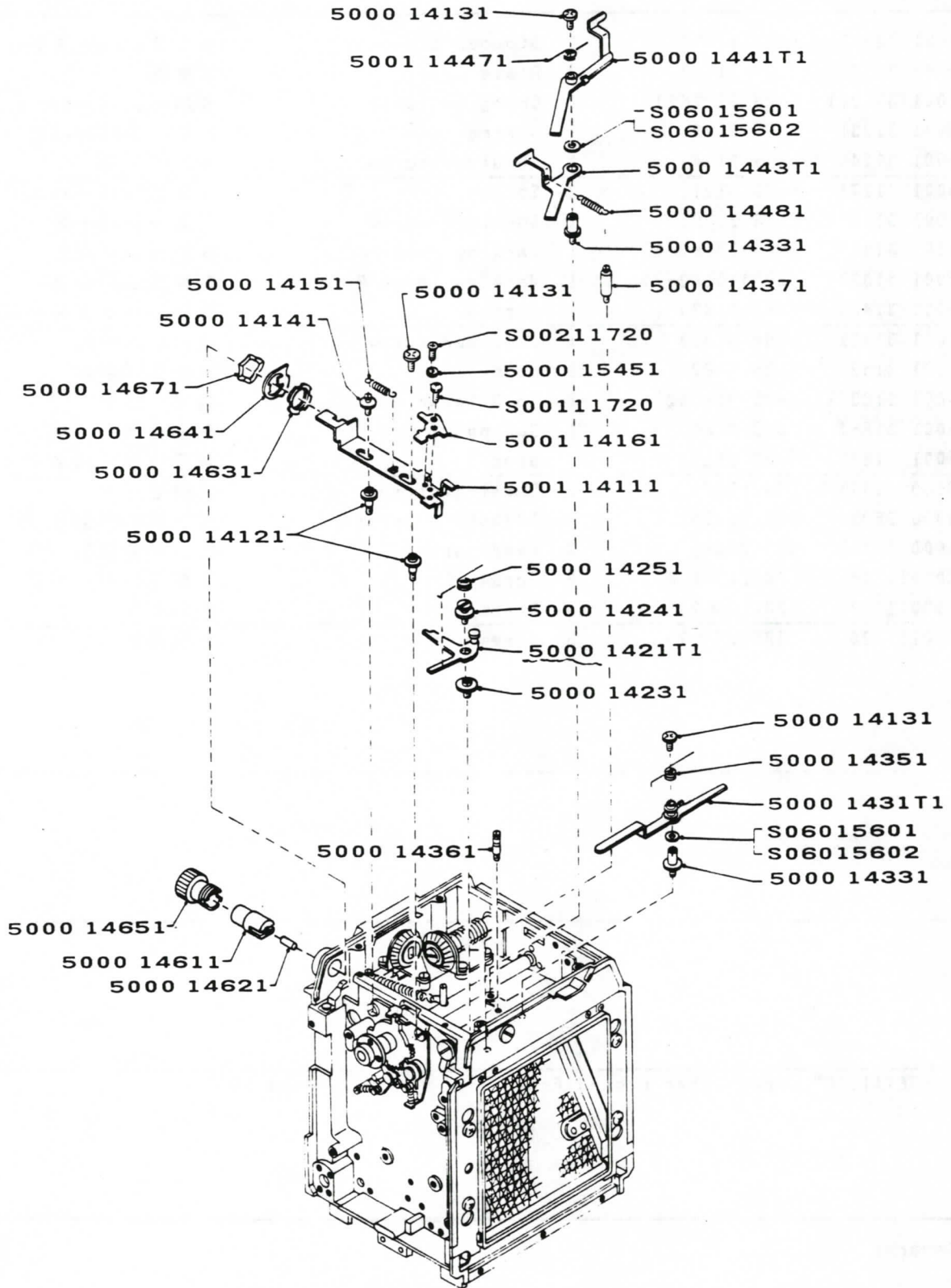
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Parts No.	Common Use Parts No.	QTY.	Description	部 品 名 称
5001 12351	(aRS 1235)	1	Stopper pin	第二Sレバーストッパー
5001 31181	(aRS 3118)	2	Plate	S軸受
5001 3122T1	(aRS 3122K2)	1	Changing lever	S第一レバーAss'y
5001 31231	(aRS 3123)	1	Spring	S第一レバーバネ
5001 31241	(aRS 3124)	1	Shoulder screw	Sレバー軸
5001 31271	(aRS 3127)	2	Spring	S第二レバーバネ
5001 31291	(aRS 3129)	1	Shoulder screw	S第一レバー軸
5001 3131T1	(aRS3131K2-1)	1	Marking lever F	S第三レバー前
5001 3132T1	(aRS3131K2-2)	1	Marking lever R	S第三レバー後
5001 31431	(aRS 3143)	1	Stopper pin	第二レバーストッパー
5001 31481	(aRS 3185)	1	Shoulder screw	第三レバー軸
5001 31621	(aRS 3162)	1	Stud	左押板バネ柱
5001 3183T1	(aRS 3183K2)	1	No.3 lever	第三レバー
5001 31861	(aRS 3186)	1	Spring	第三レバーバネ
5001 31871	(aRS 3187)	1	Stud	第三レバーバネ柱
5000 11471	(RS 1147)	2	Sealing strip	遮光モルト
5000 26231	(RS 2623)	4	Adjusting screw	ピント枠調整ネジ
5000 26241	(RS 2624)	2	Leaf spring	ピント枠調整バネ
S00011716	(PB1.1×1.6)	2	Screw	S第三レバーネジ
S00011720	(PB1.7×2)	8	Screw	止ネジ
S00111720	(3PB1.7×2)	3	Screw	S軸受止ネジ

※ DETAIL "C" Index Inter Locked Frame Ass'y Page 16

Remarks

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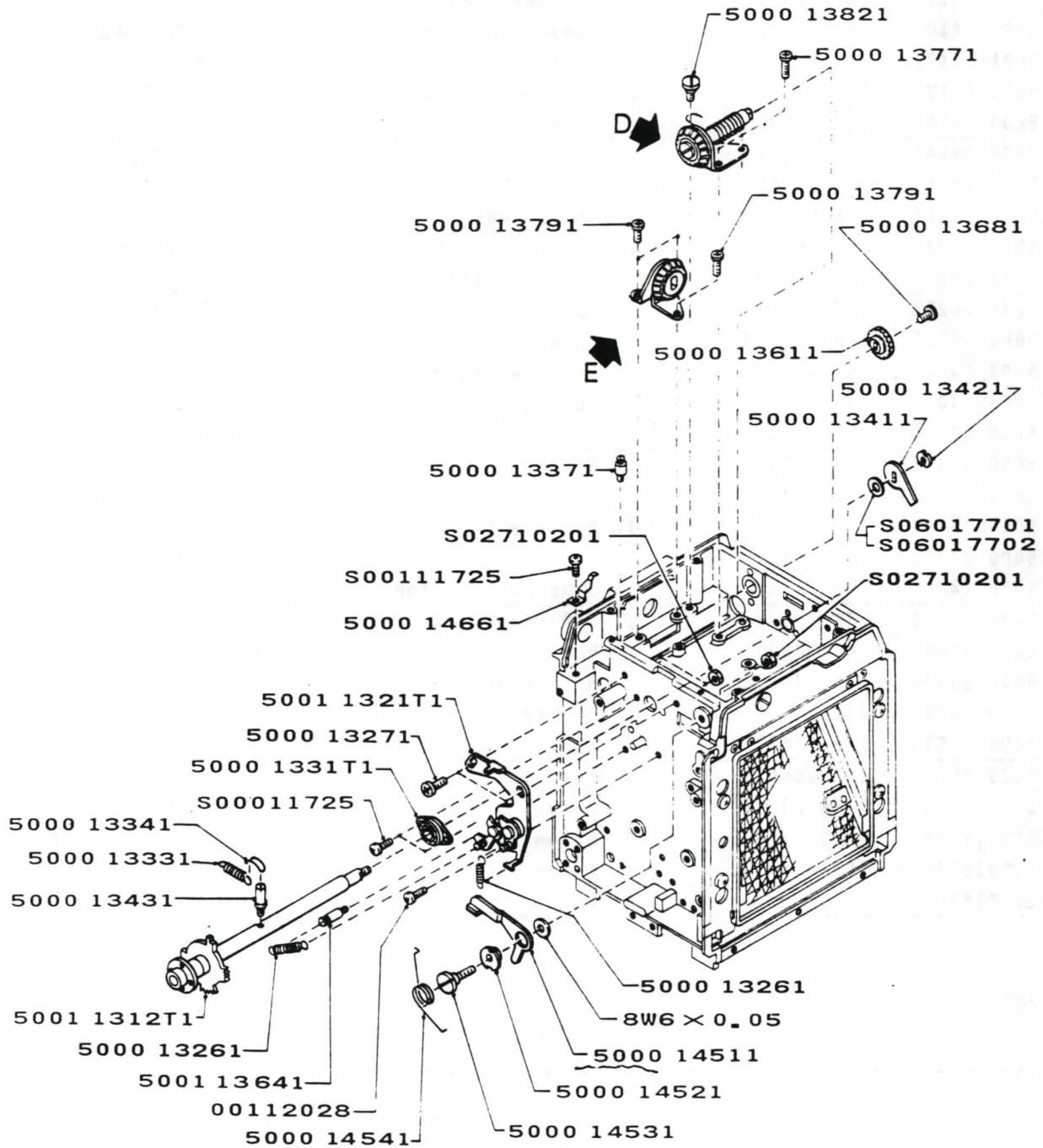
PARTS LIST

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Parts No.	Common Use Parts No.	QTY.	Description	部 品 名 称
5001 14111	(aRS 1411)	1	Release plate	リリース板
5001 14161	(aRS 1416)	1	Supporting plate	リリース板補助板
5001 14471		1	Spring	R 解除レバーバネ
5000 14121	(RS 1412)	2	Shoulder screw	リリース板軸
5000 14131	(RS 1413)	3	Screw	止ネジ
5000 14141	(RS 1414)	1	Stud	リリース板バネ掛け
5000 14151	(RS 14151)	1	Spring	リリース板バネ
5000 1421T1	(RS 1421K2)	1	Stop lever	リリース板止レバー
5000 14231	(RS 1423)	1	Shoulder screw	リリース板止レバー軸
5000 14241	(RS 1424)	1	Shoulder screw	R 板止レバーネジ
5000 14251	(RS 1425)	1	Spring	R 板止レバーネジ
5000 1431T1	(RS 1431K2)	1	Release lever	リリースレバー
5000 14331	(RS 1433)	2	Shoulder screw	リリースレバー軸
5000 14351	(RS 1435)	1	Spring	リリースレバーバネ
5000 14361	(RS 1436)	1	Stud	R レバーバネ掛け
5000 14371	(RS 1437)	1	Stud	R レバー止ボス
5000 1441T1	(RS 1441K2)	1	Release lever U	リリース解除レバー 上
5000 1443T1	(RS 1443K2)	1	Release lever L	リリース解除レバー 下
5000 14481	(RS 1448)	1	Spring	R 解除レバーバネ
5000 14611	(RS 1461)	1	S Release button	押しボタン
5000 14621	(RS 1462)	1	S Release lod	押棒
5000 14631	(RS 1463)	1	Nut	押しボタンナット
5000 14641	(RS 1464)	1	Stop cam	押しボタンストッパー
5000 14651	(RS 1465)	1	Shutter button collar	押しボタン受け
5000 14671	(RS 1467)	1	Spring washer	押しボタンワッシャ
5000 15451	(RS 1545)	1	Eccentric collar	エキセンストッパー
S00111720	(3PB1.7×2)	1	Screw	補助板止ネジ
S00211720	(PD1.7×2)	1	Screw	E ストッパー止ネジ
S06015601	(6W3×0.1)	0~2	Washer	調整ワッシャ
S06015602	(6W3×0.2)	0~2	Washer	調整ワッシャ

Remarks

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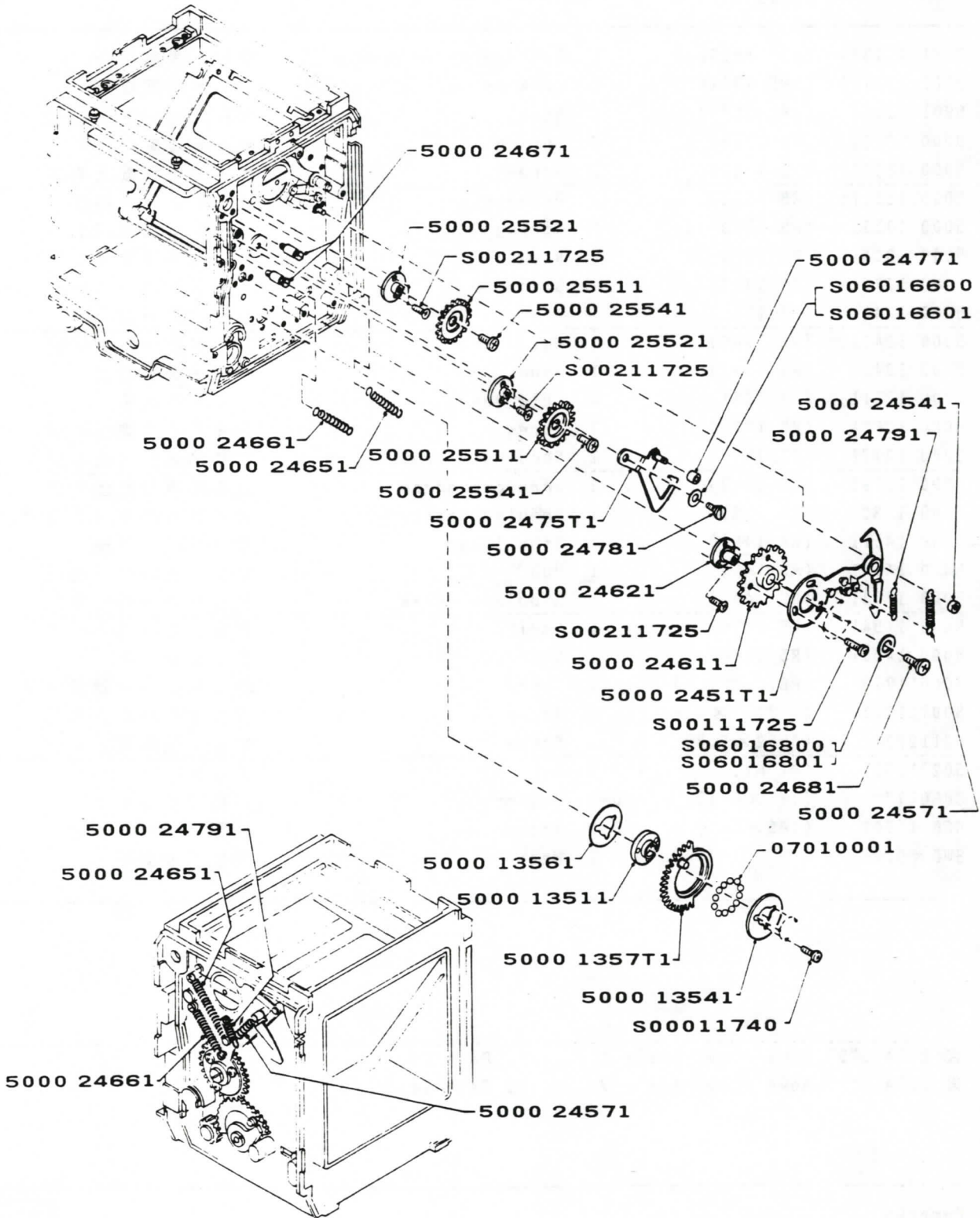


Parts No.	Common Use Parts No.	QTY.	Description	部品名称
5001 1312T1	(aRS 1312K2)	1	Cocking lever shaft	セット角度板Ass'y
5001 1321T1	(aRS 1321K2)	1	Cocking base plate	セット位置板
5001 31641	(aRS 3164)	1	Stud	第2セットギチバネ柱
5000 13261	(RS 1326)	2	Spring	セット位置板バネ
5000 13271	(RS 1327)	1	Screw	セット位置板止ネジ
5000 1331T1	(RS 1331K)	1	Pedestal	セットレバー軸受
5000 13331	(RS 1319-1)	1	Spring	セットレバーバネ
5000 13341	(RS 1319-2)	1	Ring	Sレバーバネリング
5000 13371	(RS 1337)	1	Stud	セットレバーバネ掛
5000 13411	(RS 1341)	1	Arm	セットアーム
5000 13421	(RS 1342)	1	Nut	セットアームナット
5000 13431	(RS 1343)	1	Stud	リリース解除ピン
5000 13611	(RS 1361)	1	Idle gear	アイドル歯車
5000 13681	(RS 1368)	1	Screw	アイドル歯車止ネジ
5000 13771	(RS 1377)	2	Shoulder screw	カサ歯車台板止ネジ
5000 13791	(RS 1379)	3	Shoulder screw	カサ歯車台板止ネジ
5000 13821	(RS 1382)	1	Shoulder screw	アイドル歯車バネ掛
5000 14511	(RS 1451)	1	Stop lever	セット止レバー
5000 14521	(RS 1452)	1	Hub	セット止レバー軸
5000 14531	(RS 1453)	1	Shoulder screw	セット止レバーネジ
5000 14541	(RS 1454)	1	Spring	セット止レバーバネ
5000 14661	(RS 1466)	1	Leaf spring	クリックバネ
S00011725	(PB1.7×2.5)	2	Screw	セットレバー軸受ネジ
S00111725	(3PB1.7×2.5)	1	Screw	クリックバネ止ネジ
00112028	(3PB2×2.8)	1	Screw	セット位置板止ネジ
S02710201	(N2 Ni)	3	Nut	ナット
S06017701	(7W5×0.1)	0-2	Washer	調整ワッシャ
S06017702	(7W5×0.2)	0-2	Washer	調整ワッシャ
8W6×0.05		1	Washer	調整ワッシャ

※ DETAIL "D" Bevel Gear Ass'y 1 Page 15

※ DETAIL "E" Bevel Gear Ass'y 2 Page 16

Remarks



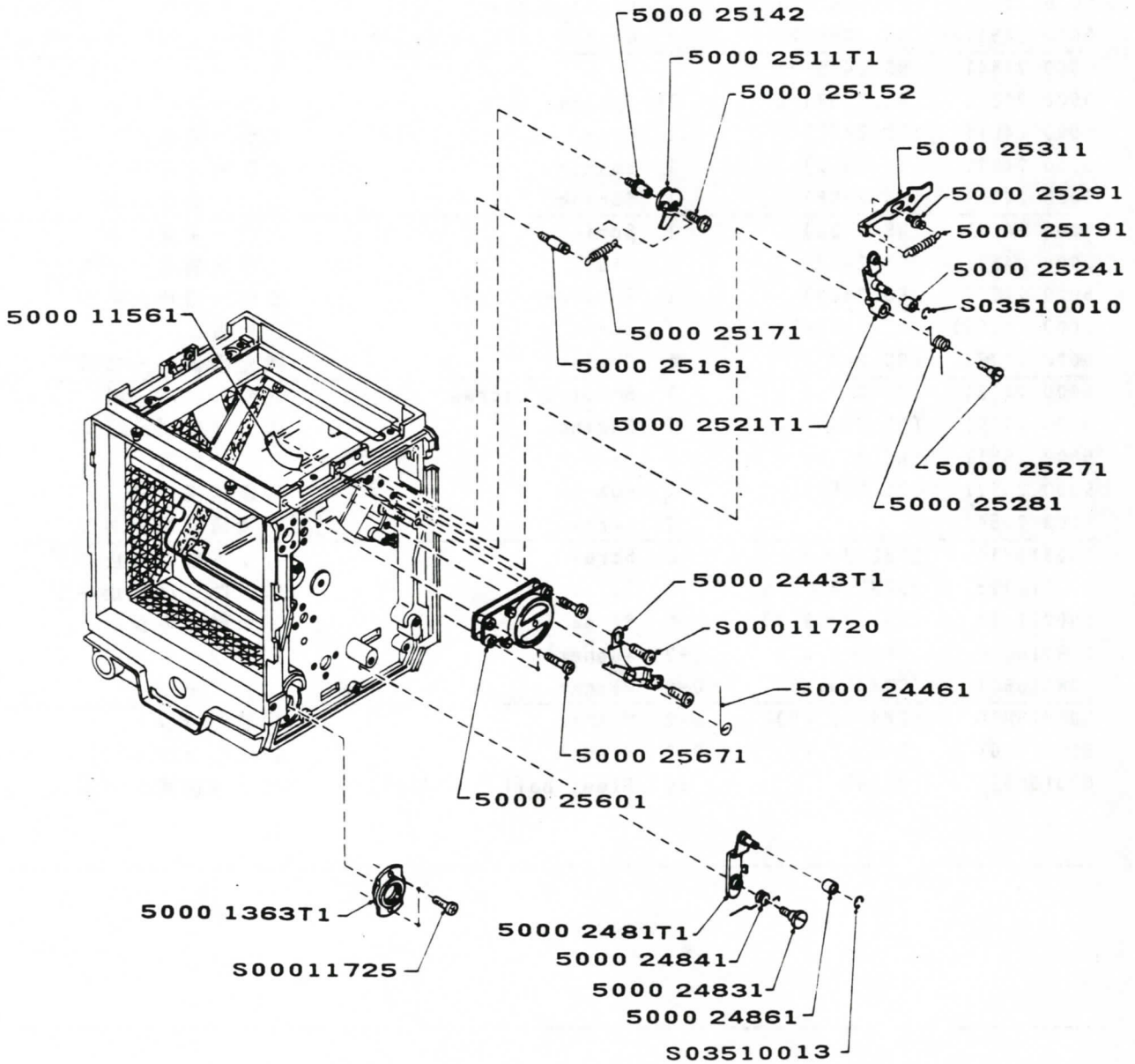
PARTS LIST

1	10
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Parts No.	Common Use Parts No.	QTY.	Description	部 品 名 称
5000 13511	(RS 1351)	1	Bushing	セット歯車軸
5000 13541	(RS 1354)	1	Disk	セット歯車ボール蓋
5000 13561	(RS 1356)	1	Disk	セット歯車ボール台板
5000 1357T1	(RS 1357K2)	1	Cocking gear	セット歯車
5000 2451T1	(RS 2451K2)	1	Mirror raising lever	ミラー上げレバー
5000 24541	(RS 2416-2)	1	Nut	ミラーピンナット
5000 24571	(RS 2457)	1	Spring	ミラー下げバネ
5000 24611	(RS 2461)	1	Gear	ミラー歯車
5000 24621	(RS 2462)	1	Bushing	ミラー歯車軸
5000 24651	(RS 2465)	1	Spring	ミラー歯車バネ
5000 24661	(RS 2466)	1	Spring	ミラー歯車バネ
5000 24671	(RS 2467)	2	Stud	ミラー歯車バネ掛け
5000 24681	(RS 2468)	1	Shoulder screw	ミラー歯車止ネジ
5000 2475T1	(RS 2475K2)	1	Lever	遮光板レバー
5000 24771	(RS 2477)	1	Collar	遮光板レバーコロ
5000 24781	(RS 2478)	1	Shoulder screw	遮光板レバー軸
5000 24791	(RS 2479)	1	Spring	遮光板レバーバネ
5000 25511	(RS 2551)	2	Gear	G 連結歯車
5000 25521	(RS 2552)	2	Hub	G 連結歯車軸
5000 25541		2	Screw	G 連結歯車止ネジ
S00011740	(PB1.7×4)	3	Screw	セット歯車軸止ネジ
S00111725	(3PB1.7×2.5)	3	Screw	M 上げレバー止ネジ
S00211725	(PD1.7×2.5)	6	Screw	歯車軸止ネジ
S06016600	(6W4×0.05)	0-2	Washer	調整ワッシャ
S06016601	(6W4×0.1)	0-2	Washer	調整ワッシャ
S06016800	(8W4×0.05)	0-2	Washer	調整ワッシャ
S06016801	(8W4×0.1)	0-2	Washer	調整ワッシャ
07010001	(B016)	30	Steel ball (φ1/16")	セット歯車ボール

Remarks

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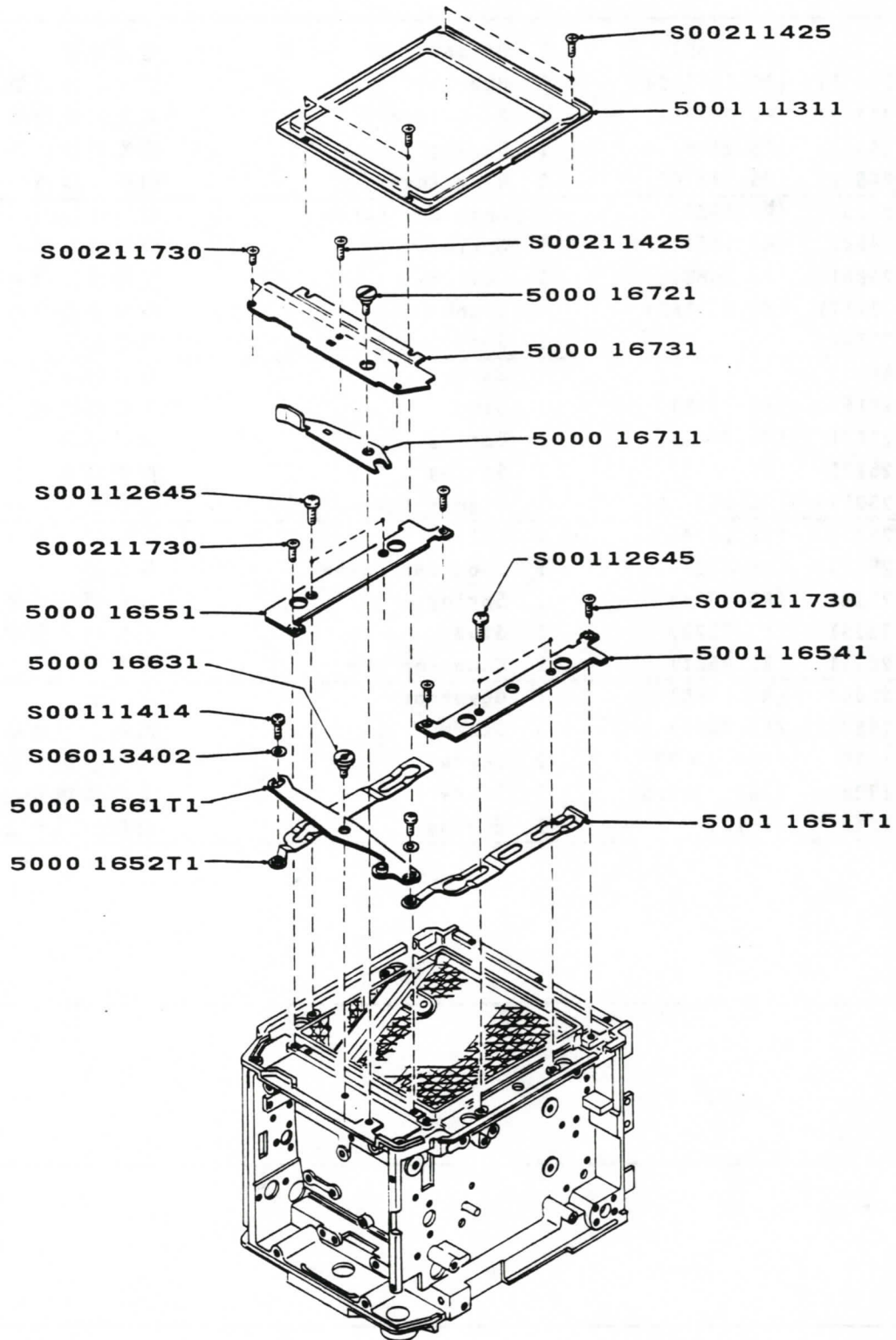
PARTS LIST

1	11
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Parts No.	Common Use Parts No.	QTY.	Description	部 品 名 称
5000 11561	(RS 1156)	1	RA paper R	右遮光紙
5000 1363T1	(RS 1363K2)	1	Hub	アイドル歯車軸受
5000 2443T1	(RS 2443K2)	1	Stop lever	遮光板止台板
5000 24461	(RS 2446)	1	Spring	遮光板止レバーバネ
5000 2481T1	(RS 2481K2)	1	Hang lever	引掛けレバー
5000 24831	(RS 2483)	1	Shoulder screw	引掛けレバー軸
5000 24841	(RS 2484)	1	Spring	引掛けレバーバネ
5000 24861	(RS 2486)	1	Collar	引掛けレバーコロ
5000 2511T1	(RS 2511K2)	1	Signal cam	シグナルカム
5000 25142		1	Shoulder screw	S C 軸
5000 25152		1	Screw	S C 軸ネジ
5000 25161	(RS 2516)	1	Stud	S C バネ柱
5000 25171	(RS 2517)	1	Spring	S C バネ
5000 25191	(RS 2519)	1	Spring	押板バネ
5000 2521T1	(RS 2521K2)	1	Signal lever	シグナルレバー
5000 25241	(RS 2524)	1	Collar	S L ローラー
5000 25271	(RS 2527)	1	Shoulder screw	S L 軸
5000 25281	(RS 2528)	1	Spring	S L 戻しバネ
5000 25291	(RS 2529)	1	Stud	S L バネ掛け
5000 25311	(RS 2531)	1	Coupling arm	右押板
5000 25601	(RS 2560)	1	Governor	ガバナー
5000 25671	(RS 2567)	3	Screw	ガバナー止ネジ
S00011720	(PB1.7×2)	2	Screw	遮光板止台板ネジ
S00011725	(PB1.7×2.5)	2	Screw	1 歯車軸受止ネジ
S03510013	(E-13)	1	E-ring	引掛けレバー止リング

Remarks

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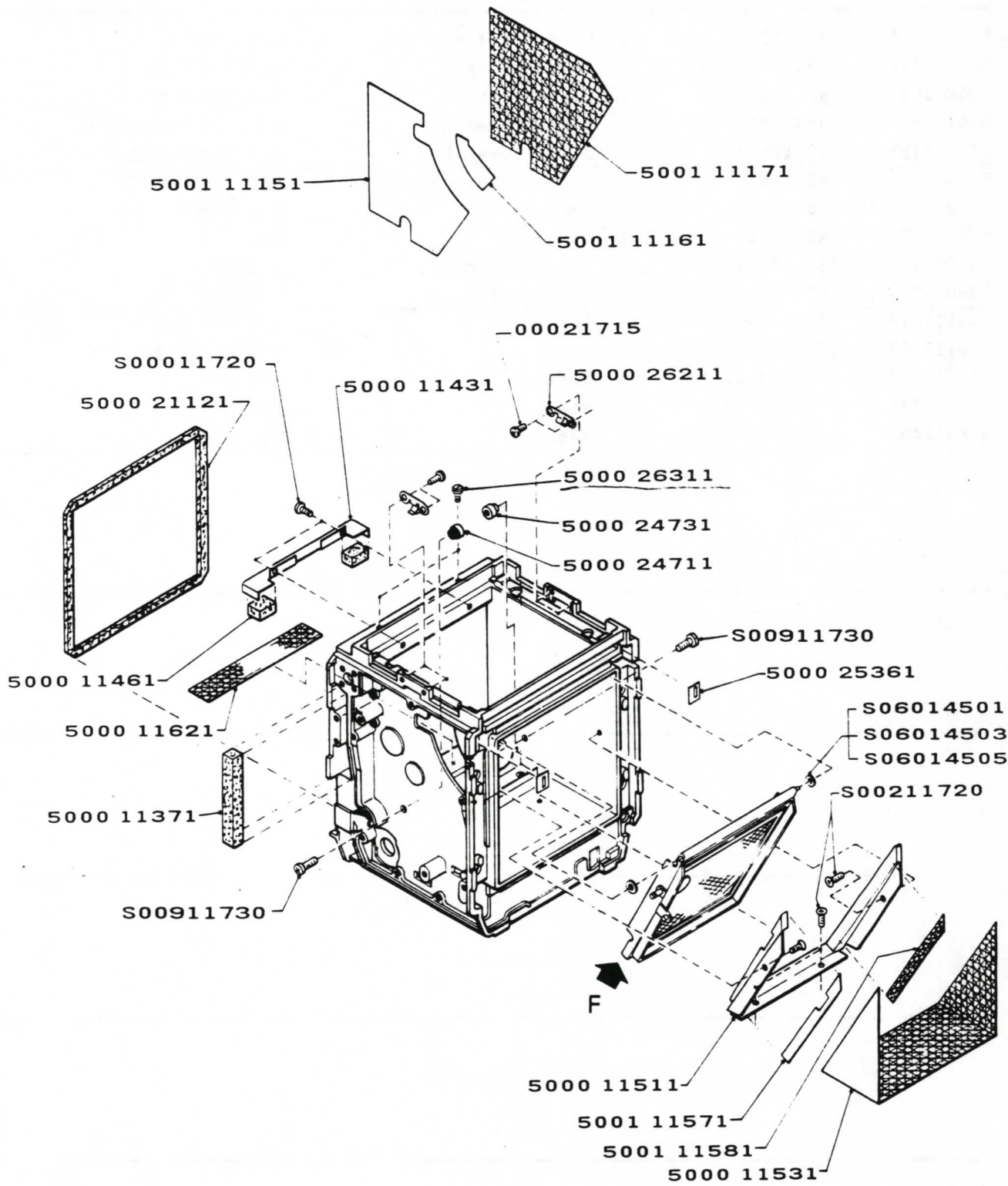
PARTS LIST

1	12	
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Parts No.	Common Use Parts No.	QTY.	Description	部 品 名 称
5001 11311	(aRS 1131)	1	Light baffle frame	後遮光枠
5001 1651T1	(aRS 1651K2)	1	Slide plate R	右スライド板
5000 1652T1	(RS 1652K2)	1	Slide plate L	左スライド板
5001 16541	(aRS 1654)	1	Slide cover R	右スライド板カバー
5000 16551	(RS 1655)	1	Slide cover L	左スライド板カバー
5000 1661T1	(RS 1661K2)	1	Slide coupling plate	スライド連結板
5000 16631	(RS 1663)	1	Post screw	連結板軸ナット
5000 16711	(RS 1671)	1	Lever	テコ
5000 16721	(RS 1672)	1	Shoulder screw	テコ軸
5000 16731	(RS 1673)	1	Cover plate	テコカバー板
S00111414	(3PB1.4×1.4)	2	Screw	スライド板ネジ
S00112645	(3PB2.6×4.5)	4	Screw	S板カバー止ネジ
S00211425	(PD1.4×2.5)	5	Screw	止ネジ
S00211730	(PD1.7×3)	6	Screw	止ネジ
S06013402	(4W2×0.2)	2	Washer	ワッシャ

Remarks

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PARTS LIST

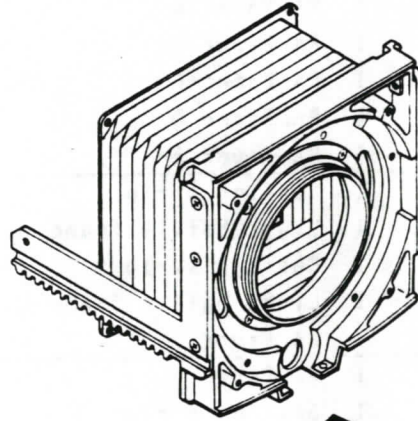
1	13
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Parts No.	Common Use Parts No.	QTY.	Description	部 品 名 称
5001 11151	(aRS 1115)	1	RA Paper A	ボディ遮光紙
5001 11161	(aRS 1116)	1	RA Paper B	ボディ遮光紙
5001 11171	(aRS 1117)	1	RA Paper C	ボディ遮光紙
5001 11571	(aRS 1157)	1	RA Paper D	中遮光紙 (右)
5001 11581	(aRS 1158)	1	RA Paper E	中遮光紙 (右)
5000 11371	(RS 1137)	1	Sealing strip	側板遮光モルト
5000 11431	(RS 1143)	1	Light baffle frame U	上前遮光枠
5000 11461	(RS 1146)	2	Sealing strip	上前遮光枠モルト
5000 11511	(RS 1151)	1	Light baffle frame M	中遮光枠
5000 11531	(RS 1153)	1	RA Paper	遮光紙
5000 11621	(RS 1162)	1	RA Paper	ピニオンカバー遮光紙
5000 21121	(RS 2112)	1	Sealing strip	レンズボードモルト
5000 24711	(RS 2471)	1	Angle pin	ミラー角度ピン
5000 24731		1	Angle pin	ミラー角度ピン
5000 25361	(RS 2536)	2	Guide	押板ガイド
5000 26211	(RS 2621)	2	Click plate	ピント枠クリック
5000 26311	(RS 2631)	2	FH lock pin	FH掛けピン
00011715	(PB1.7×1.5)	4	Screw	ピント枠止ネジ
S00011720	(PB1.7×2)	2	Screw	上前遮光枠止ネジ
S00021720	(PB1.7×2)	4	Screw	中前遮光枠止ネジ
S06014501	(5W2.5×0.1)	0~2	Washer	調整ワッシャ
S06014503	(5W2.5×0.3)	0~2	Washer	調整ワッシャ
S06014505	(5W2.5×0.5)	0~2	Washer	調整ワッシャ
S00911730	(4PB1.7×3)	2	Screw	ミラー角度止ネジ

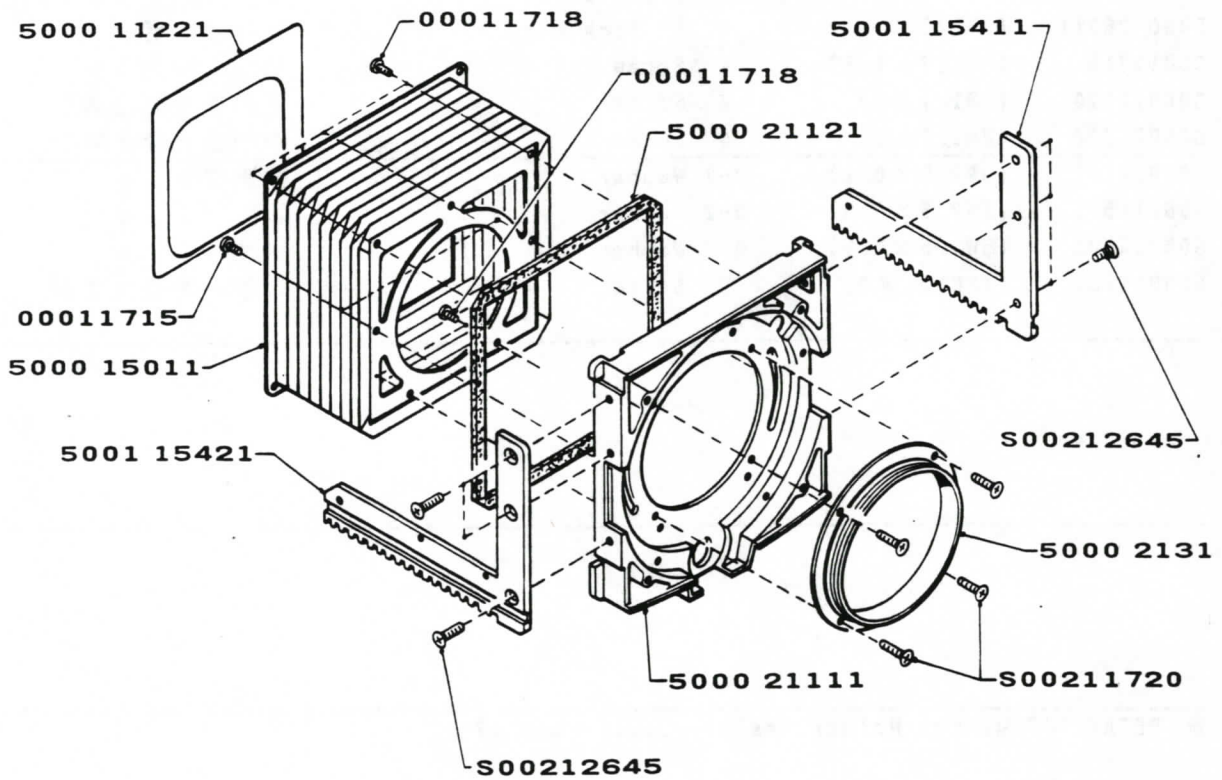
※ DETAIL "F" Mirror Holder Ass'y Page 17

Remarks

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↑
A



DETAIL A

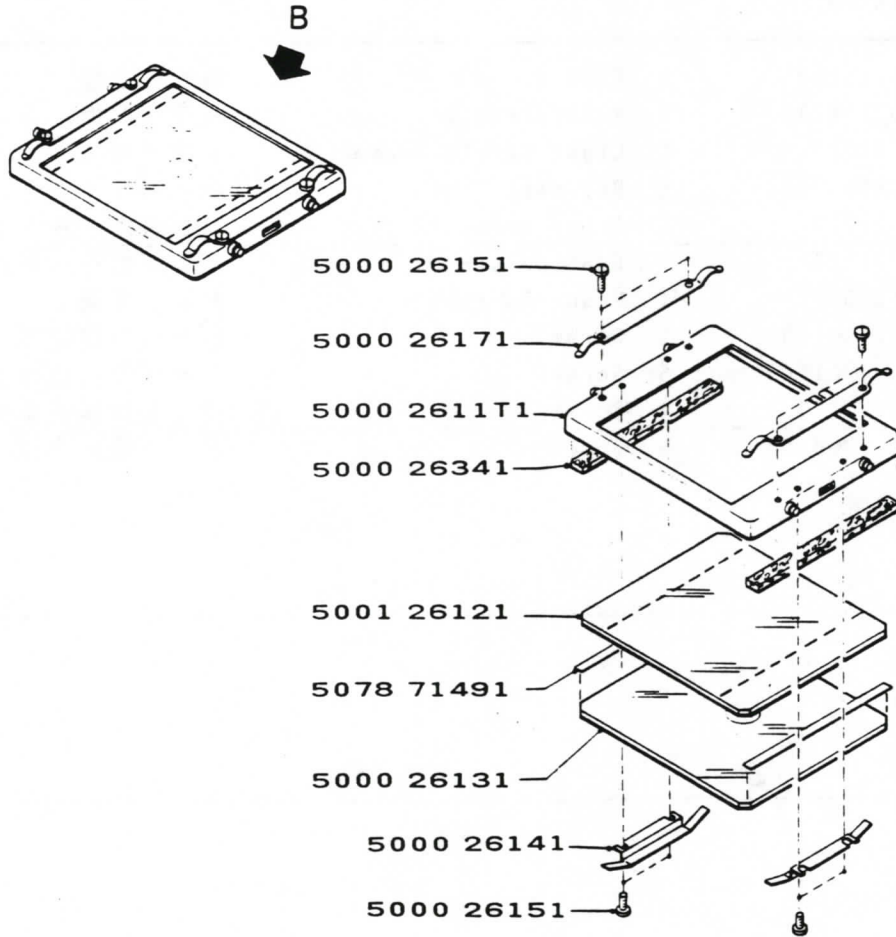
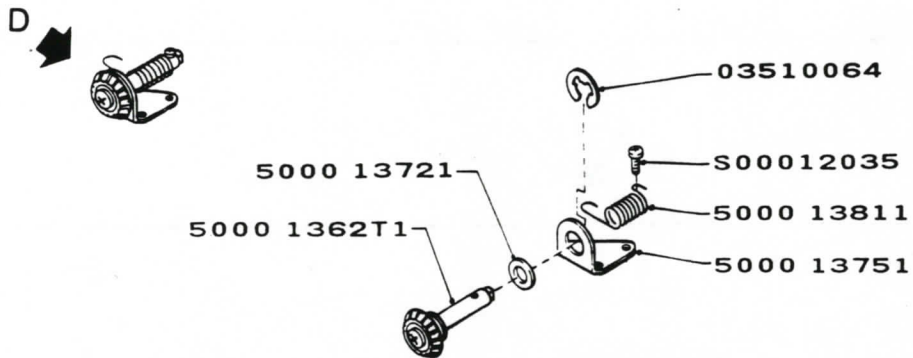
PARTS LIST

1	14
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Parts No.	Common Use Parts No.	QTY.	Description	部 品 名 称
5001 15411	(aRS 1541)	1	Rack plate R	右ラック板
5001 15421	(aRS 1542)	1	Rack plate L	左ラック板
5000 11221	(RS 1122)	1	Light baffle frame	前遮光板
5000 15011	(RS 1551K2)	1	Bellows	ジャバラ
5000 21111	(RS 2111)	1	Front panel	レンズボード
5000 21121	(RS 2112)	1	Sealing strip	レンズボードモルト
5000 21311	(RS 2131)	1	Mounting ring	セット板軸
00011715	(PB1.7×1.5)	2	Screw	ジャバラ板止ネジ
00011718	(PB1.7×1.8)	5	Screw	ジャバラ板止ネジ
S00211720	(PD1.7×2)	4	Screw	セット板軸止ネジ
S00212645	(PD2.6×4.5)	6	Screw	ラック板止ネジ

Remarks

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**DETAIL B****DETAIL D**

PARTS LIST

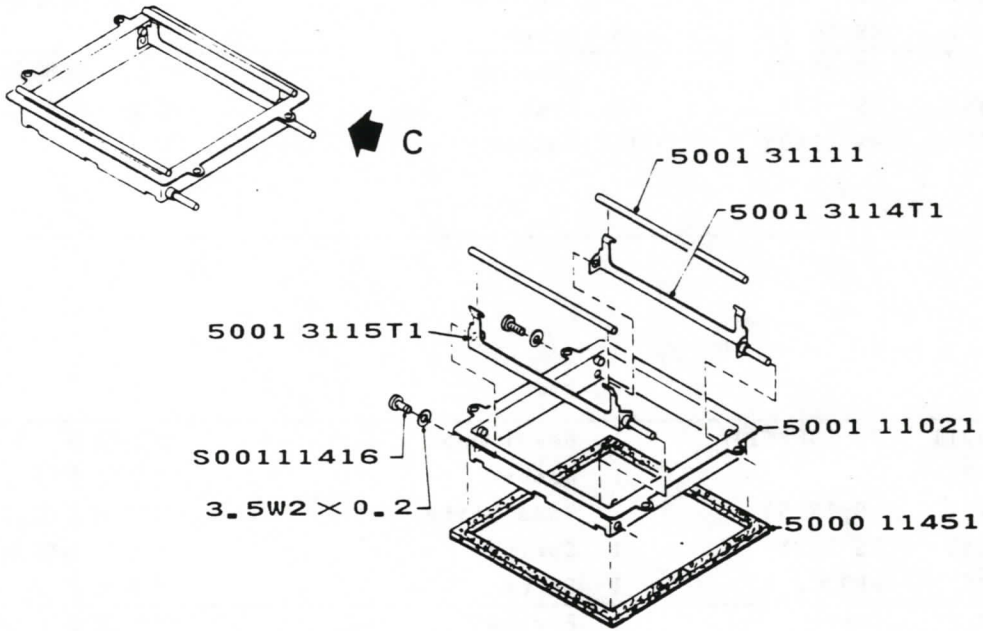
1	15
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Parts No.	Common Use Parts No.	QTY.	Description	部 品 名 称
5001 26121	(aRS 2621)	1	Screen glass	フレネル保護板
5000 2611T1	(RS 2611K)	1	Frame	ピント枠
5000 26131	(RS 2613)	1	Fresnal lens	フレネル板
5000 26141	(RS 2614)	2	Leaf spring	フレネル板押え板
5000 26151	(RS 2615)	8	Screw	止ネジ
5000 26171	(RS 2617)	1	Leaf spring	ピント枠押えバネ
5000 26341	(RS 2634)	2	Cushion	ピント枠モルト
5078 71491	(RS 7149)	1~2	Washer	スパーサーワッシャ

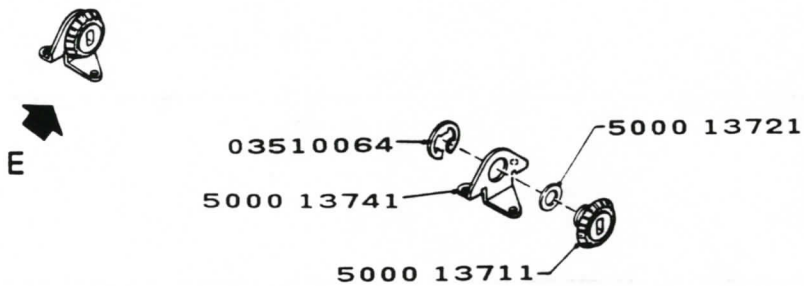
5000 1362T1	(RS 1362K2)	1	Bevel gear	カサ歯車
5000 13721		1	Washer	カサ歯車ワッシャ
5000 13751	(RS 1375)	1	Base plate	カサ歯車台板
5000 13811	(RS 1381)	1	Spring	アイドル歯車バネ
S00012035	(PB2×3.5)	1	Screw	バネ止ネジ
03510064	(E-64)	1	E-ring	カサ歯車止リング

Remarks

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DETAIL C



DETAIL E

PARTS LIST

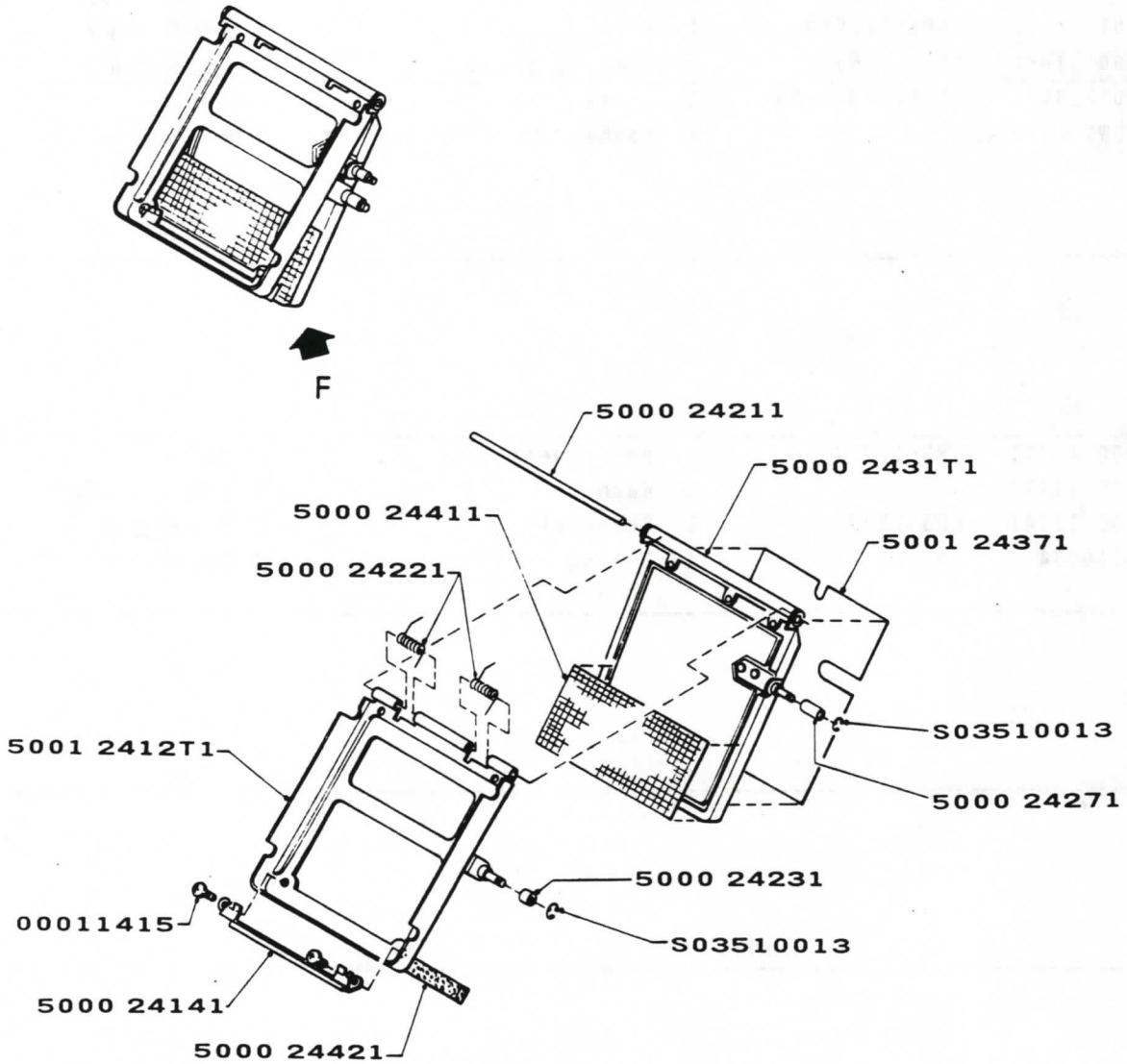
1	16
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Parts No.	Common Use Parts No.	QTY.	Description	部品名称
5001 11021	(aRS 1141)	1	Frame	上遮光枠
5001 31111	(aRS 3111)	1	Red bare	S 棒
5001 3114T1	(aRS 3114K2)	1	Arm	S 棒受板 (前)
5001 3115T1	(aRS 3115K2)	1	Arm	S 棒受板 (後)
5000 11451	(RS 1145)	1	Sealing strip	上遮光枠モルト
S00111416	(3PB1.4 × 1.6)	2	Screw	S 軸ネジ
3.5W2 × 0.2		4	Washer	S 棒ワッシャ

5000 13711	(RS 1371)	1	Bevel gear	カサ歯車
5000 13721		1	Washer	カサ歯車ワッシャ
5000 13741	(RS 1374)	1	Pedestal	カサ歯車台板
03510064	(E-64)	1	E-ring	カサ歯車止リング

Remarks

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DETAIL F

PARTS LIST

Parts No.	Common Use Parts No.	QTY.	Description	部 品 名 称
5001 2412T1	(aRS 2412K2)	1	Mirror holder	ミラーホルダー
5001 24371	(aRS 2437)	1	RA paper	遮光板裏紙
5000 24141	(RS 2414)	1	Holder	ミラー押え(下)
5000 24211	(RS 2421)	1	Shaft	ミラー軸
5000 24221	(RS 2422)	2	Spring	ミラー軸バネ
5000 24231	(RS 2423)	1	Collar	ミラー軸コロ
5000 24271	(RS 2427)	1	Collar	遮光板軸コロ
5000 2431T1	(RS 2431K2)	1	Light baffle frame	遮光板
5000 24411	(RS 2441)	1	Light baffle curtain	遮光板幕
5000 24421	(RS 2442)	1	Cushion	遮光板ダンパ
00011415	(PB1.4×1.5)	2	Screw	ミラー押え止ネジ
S03510013	(E-13)	2	E-ring	ミラー軸止リング

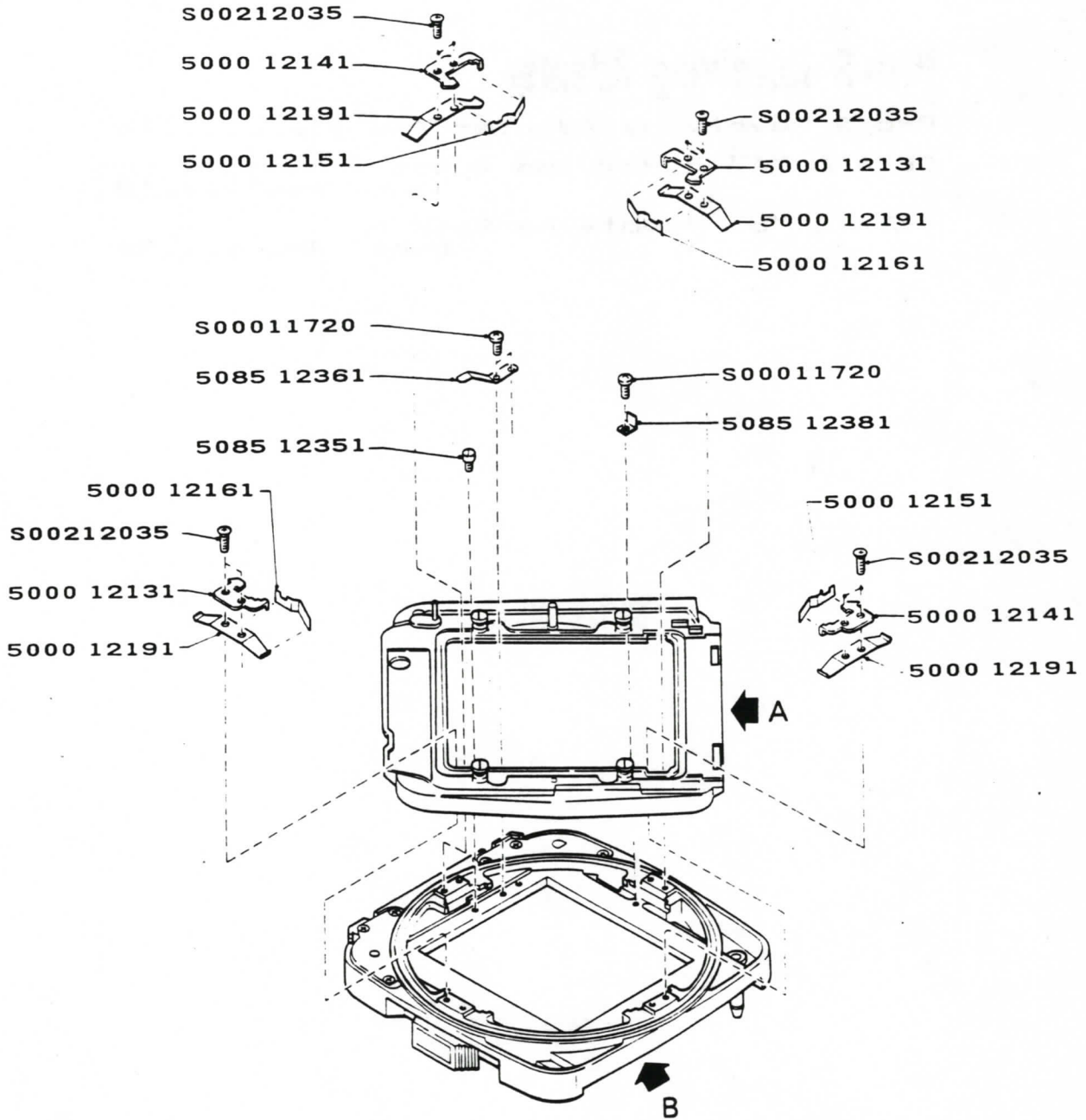
Remarks

Pro-S Revolving Adapter

Pro-S Revolving Adapter Ass'y.....18

**DETAIL "A" Revolving Adapter
Panel Ass'y...19**

**DETAIL "B" Revolving Back
Panel Ass'y...20**

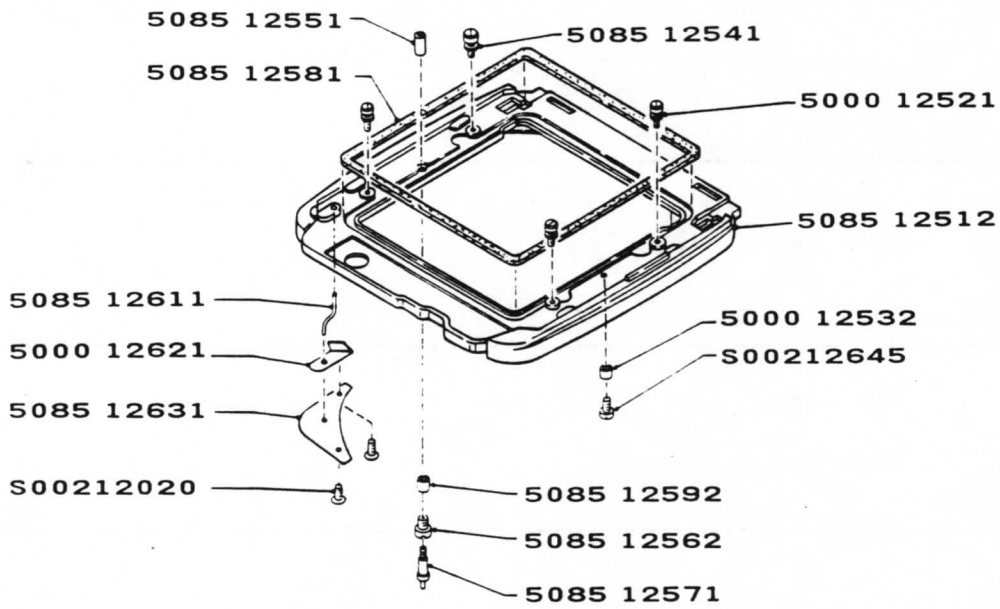
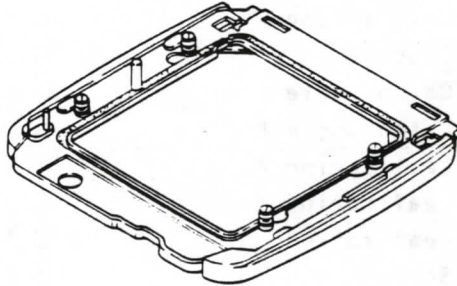


PARTS LIST

Parts No.	Common Use Parts No.	QTY.	Description	部 品 名 称
5085 12351	(aRS 1235)	1	Stopper pin	S 切替バネストッパー
5085 12361	(aRS 1236)	1	Leaf spring	S 切替バネ
5085 12381	(aRS 1238)	1	Bracket	バネ受けアングル
5000 12131	(RS 1213)	2	Catch angle A	レボ座金 A
5000 12141	(RS 1214)	2	Catch angle B	レボ座金 B
5000 12151	(RS 1251)	2	Leaf spring A	クリックバネ A
5000 12161	(RS 1261)	2	Leaf spring B	クリックバネ B
5000 12191	(RS 1291)	4	Leaf spring	レボ座金バネ
S00011720	(PB1.7×2)	3	Screw	止ネジ
S00212035	(PD2×3.5)	8	Screw	レボ座金止ネジ

※ DETAIL "A" Revolving Adapter Panel Ass'y Page 19
 ※ DETAIL "B" Revolving Back Panel Ass'y Page 20

Remarks



DETAIL A

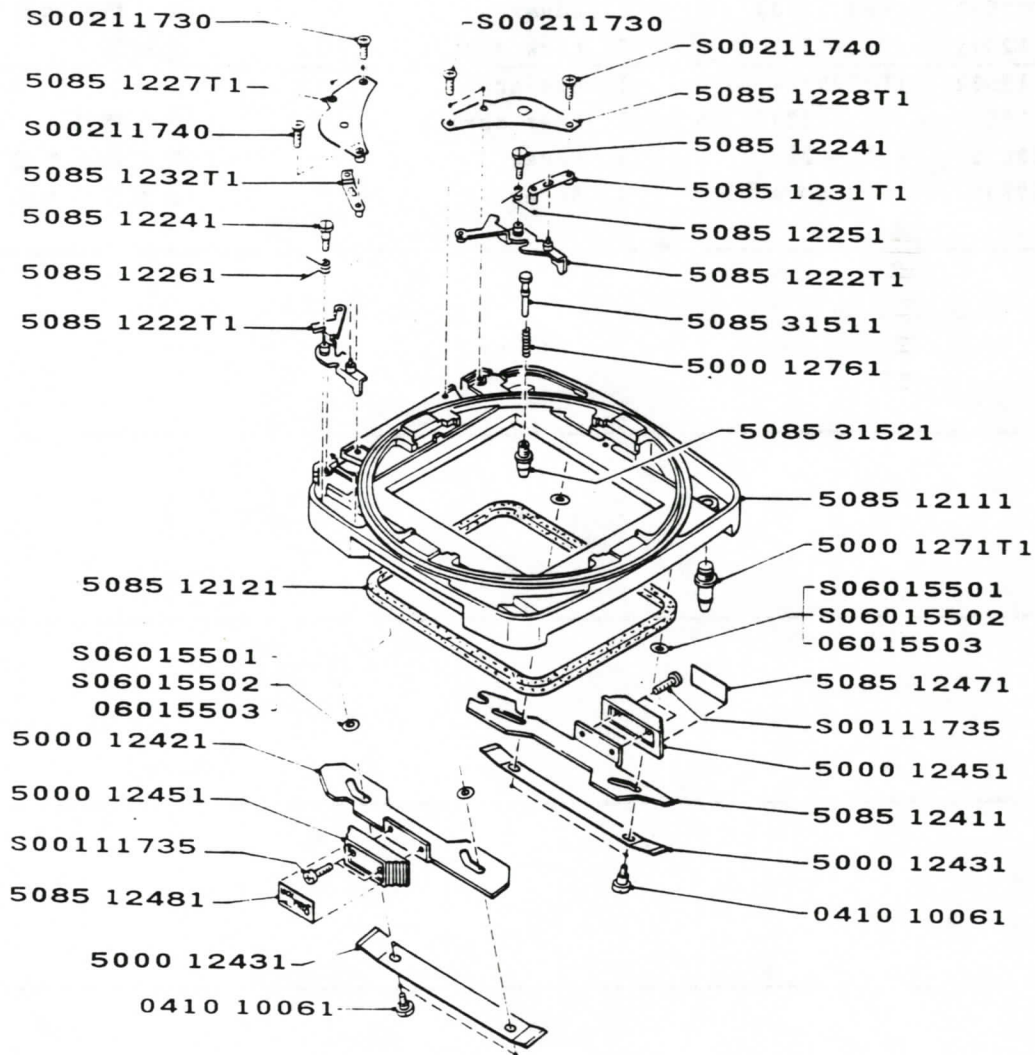
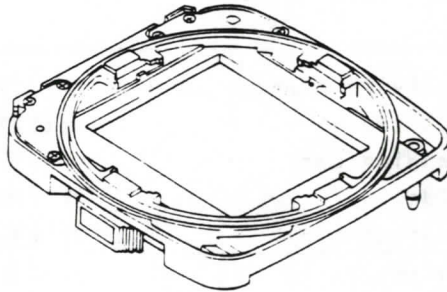
PARTS LIST

1	19
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Parts No.	Common Use Parts No.	QTY.	Description	部 品 名 称
5085 12512	(M5001-12512)	1	Revolving adapter panel	レボ台板
5085 12541	(aRS 1254)	1	Lock pin	止め軸
5085 12551	(aRS 1255)	1	Changing bar	S 押棒
5085 12562	(M5001-12562)	1	Guide	S 押棒ガイド
5085 12571	(aRS 1257)	1	Changing pin	S 押棒ピン
5085 12581	(aRS 1258)	1	Sealing strip	レボ台板モルト
5085 12592	(M5001-12592)	1	Collar	S 押棒ガイドカラー
5085 12611	(aRS 1261)	1	Release lock bar	R L 棒
5085 12631	(aRS 1263)	1	Cover	R L 棒バネ受け
5000 12521	(RS 1252)	3	Lock pin	止め軸
5000 12532	(M5000-12532)	1	Collar	ストップカラー
5000 12621	(RS 1262)	1	Leaf spring	R L 棒バネ
S00212020	(PD2 × 2)	2	Screw	R L 棒バネ受けネジ
S00212645	(PD2.6 × 4.5)	1	Screw	S カラー止ネジ

Remarks

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**DETAIL B**

PARTS LIST

Parts No.	Common Use Parts No.	QTY.	Description	部品名称
5085 12111	(aRS 1211)	1	Revolving back panel	レボバック
5085 12121	(aRS 1212)	1	Sealing strip	レボモルト
5085 1221T1	(aRS 1221K2)	1	Lock lever A	GLレバー A
5085 1222T1	(aRS 1222K2)	1	Lock lever B	GLレバー B
5085 12241	(aRS 1224)	2	Shoulder screw	GLレバー軸
5085 12251	(aRS 1225)	1	Spring A	GLレバーバネ A
5085 12261	(aRS 1226)	1	Spring B	GLレバーバネ B
5085 1227T1	(aRS 1227K2)	1	Cover A	GLレバーカバー A
5085 1228T1	(aRS 1228K2)	1	Cover B	GLレバーカバー B
5085 1231T1	(aRS 1231K2)	1	RL lever A	RLレバー A
5085 1232T1	(aRS 1232K2)	1	RL lever B	RLレバー B
5085 12411	(aRS 1241)	1	Slide lock U	圧着金具 (上)
5085 12471	(aRS 1247)	1	Mark plate U	指示板 (上)
5085 12481	(aRS 1248)	1	Mark plate L	指示板 (下)
5085 31511	(aRS 3151)	1	Warning signal pin	右押棒
5085 31521	(aRS 3152)	1	Sleeve	右押棒ガイド
5000 12421	(RS 1242)	1	Slide lock L	圧着金具 (下)
5000 12431	(RS 1243)	2	Leaf spring	圧着金具押しバネ
5000 12451	(RS 1245)	2	Slide lock knob	圧着金具つまみ
5000 1271T1	(RS 1271K2)	1	Coupling pin	Sアダプタ
5000 12761	(RS 1276)	1	Spring	右押棒バネ
0410 10061	(SN 1006)	2	Shoulder screw	圧着金具止ネジ
S00111735	(3PB1.7×3.5)	4	Screw	つまみ止ネジ
S00211730	(PD1.7×3)	4	Screw	GLカバー止ネジ
S00211740	(PD1.7×4)	2	Screw	GLカバー止ネジ
S06015501	(5W3×0.1)	0~2	Washer	調整ワッシャ
S06015502	(5W3×0.2)	0~2	Washer	調整ワッシャ
06015503	(5W3×0.3)	0~2	Washer	調整ワッシャ

Remarks