

# **SERVICE MANUAL**

**REPAIR MANUAL**

**for**

**MAMIYA C 220 Professional**

**(m FC)**



**MAMIYA CAMERA CO., LTD.**  
**TOKYO JAPAN**

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## I. DISASSEMBLING AND REASSEMBLING

This chapter deals with troubles which may be encountered when disassembling and reassembling the camera while relying on the exploded views.

### 1. Mirror

- (1) Disassembly. Refer to exploded view, page 2 .
- (2) Reassembly

Insert the mirror FC4051 into the brackets of the camera body mFC4011 while tilted away from above the camera body (in the arrow direction), holding the mirror tight against the mirror spring aFC4053. Then adjust the mirror angle at 45 degrees against the film plane of the camera body, by turning the mirror angle adjusting screw PB1.7x2.5B. Apply D.B. Bond to the brackets and the mirror angle adjusting screw of the camera body to secure them.

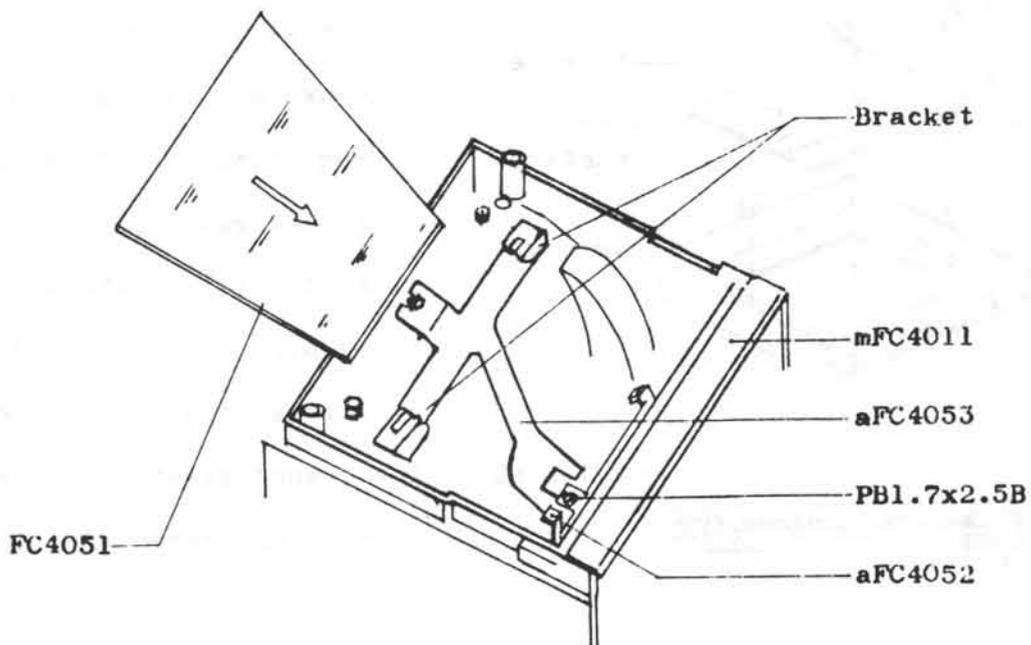


Fig. 1

Mirror

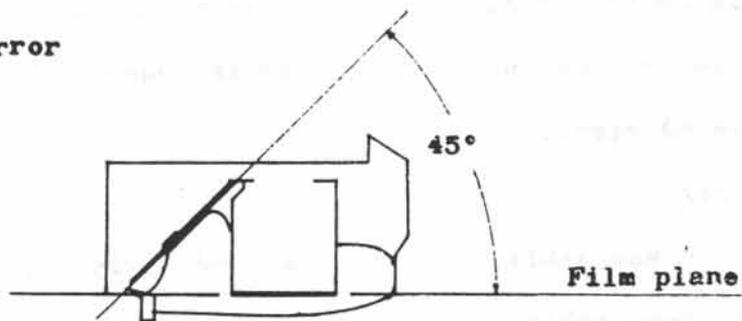
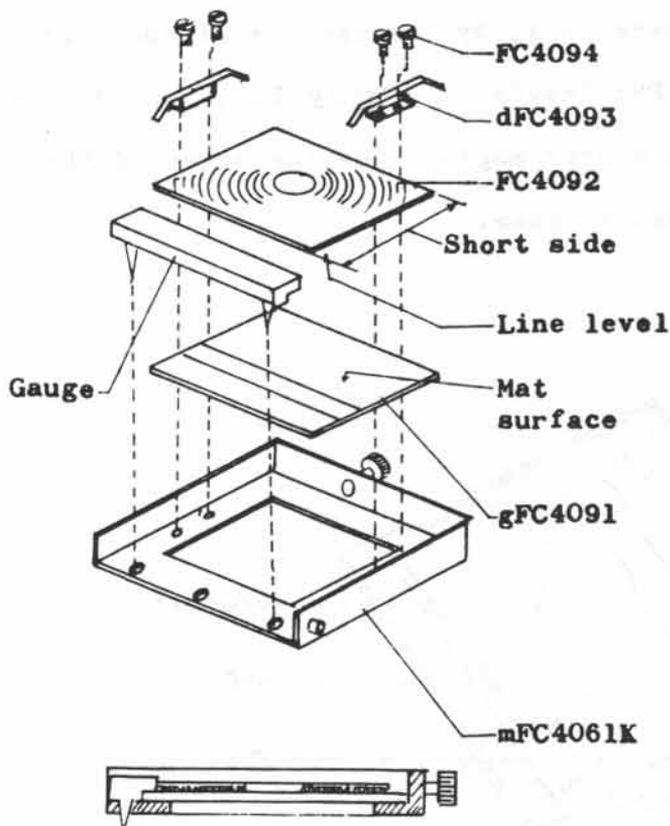


Fig. 2

## 2. Focusing Screen Frame

(1) Disassembly. Refer to exploded view, page 6 .

(2) Reassembly



Reassemble all parts in the order shown in the exploded view on the left. When all parts are assembled as shown in the bottom, secure it with screws FC4094 together with the ground glass spring plate dF4093, using the exclusive gauge for this purpose. After tightening the screws, apply D.B. Bond to all four corners of the fresnel lens and the ground glass focusing screen, and cement in place.

Fig. 3

### 3. Side Panel

#### 3.1 Right panel mFC4611

##### (1) Disassembly

Take off the disk mFC4117 by inserting a sharp-edged instrument into it, then loosen the two screws 4B1.7x2 and take off the knob mFC4116. Peel off the leatherette mFC4716 from the right panel mFC4611; then, by unscrewing five screws PD2x3B and screw PD2x5, the right panel can be removed.

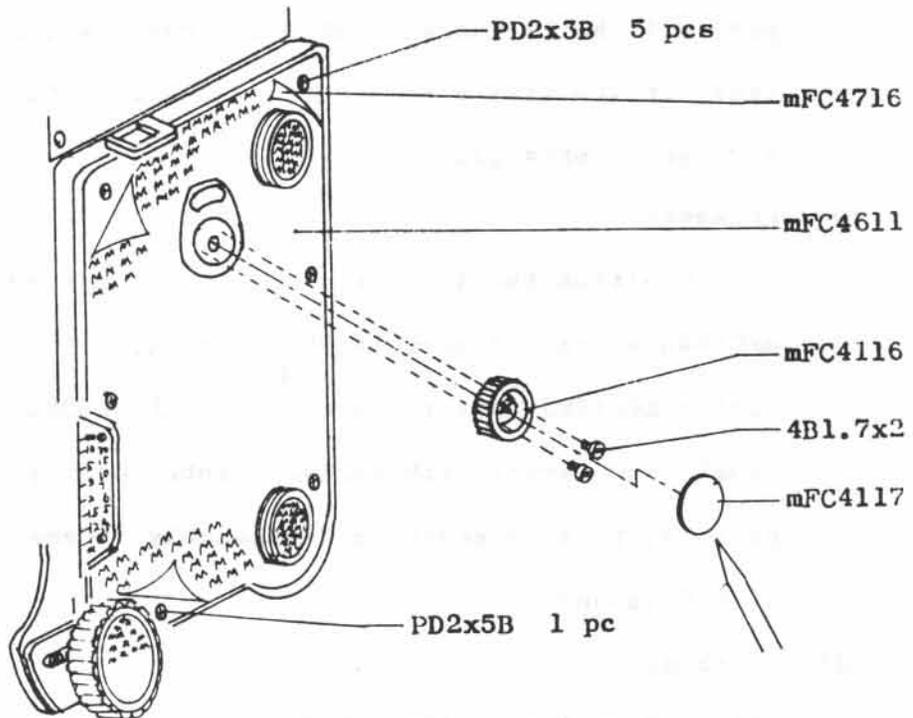


Fig. 4

##### (2) Reassembly

Reassemble all parts in the reverse order of disassembly. Secure the two screws 4B1.7x2 by tightening them and applying D.B. Bond. Cement the disk and leatherette with Pliobond.

### 3.2 Left panel mFC4621

#### (1) Disassembly

Remove the screw 3Ds2x3Cr, and take off the knob cover mFC4319. Take off the spring pFC5115, open the back cover, put the universal pin face tightener into the two holes of the ratchet wheel pFC5111 while inserting the spanner T-mFC-1 into the nut gFC4368, and turn the universal pin face tightener counterclockwise. With this action, the ratchet wheel can be taken out, and the film winding knob mFC4321K2 removed. Then peel off the leatherette mFC4717 from the left panel mFC4621K2, take out the five screws PD2x3 and screw PD2x5, and remove the left panel mFC4621K2.

#### (2) Reassembly

Position the left panel so that the window by the knob mFC4645 shows the mark "SINGLE" in it, let the groove of the button mFC4683 meet the projection mFC4682K2, attach the left panel, and secure with screws. Subsequently, assemble all parts in reverse order to disassembly. Cement the leatherette with Pliobond.

#### (3) Checking

(3).1 Move the button mFC4683 back and forth to verify change over of the indication from 120 to 220 (and vice versa), confirming that change over can be observed from the window.

(3).2 Turn the knob mFC4645, confirming that the shutter operates correctly according to the "SINGLE" and "MULTI" marks in the window.

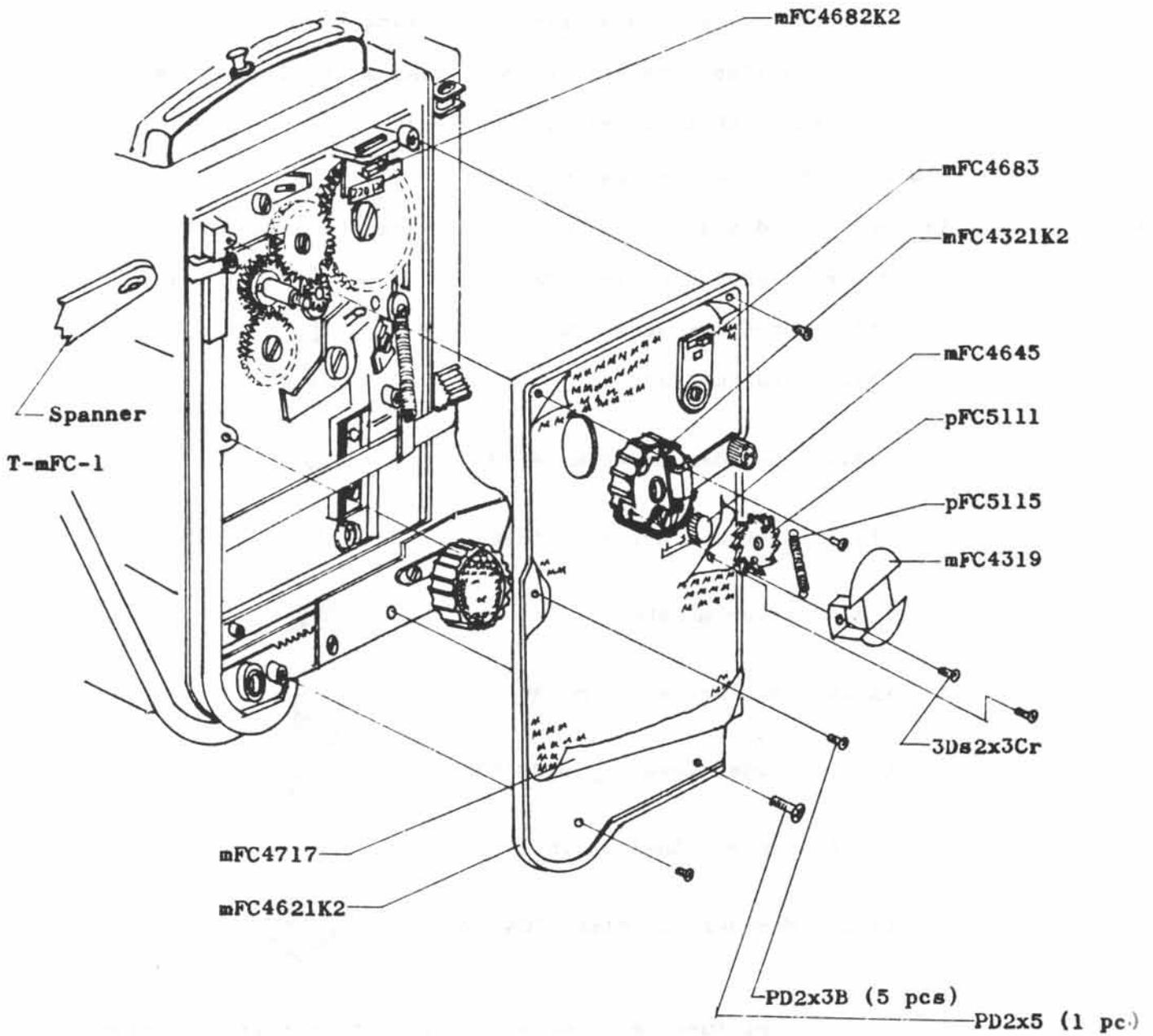


Fig. 5

- (3).3 Turn the film winding knob to verify that the spool nut moves accordingly, confirming that the ratchet functions properly (should make a clicking noise when the knob is turned in reverse).

#### 4. Film Advance, Exposure Counter

- (1) Order of disassembly. (After removing the left panel)

Refer to exploded view, page 3.

(1).1 Shoulder screw dWP1794



(1).2 Gear mFC4372



(1).3 Shoulder screw mFC4689



(1).4 Shoulder screw mFC4686



(1).5 Lever mFC4685



(1).6 Shoulder screw mFC4684



(1).7 Slider assembly mFC4682K2



(1).8 Screw 2.5Bsl.4x2.5



(1).9 Exposure counter mFC4352



The picture below shows the condition after all nine parts listed above are removed.

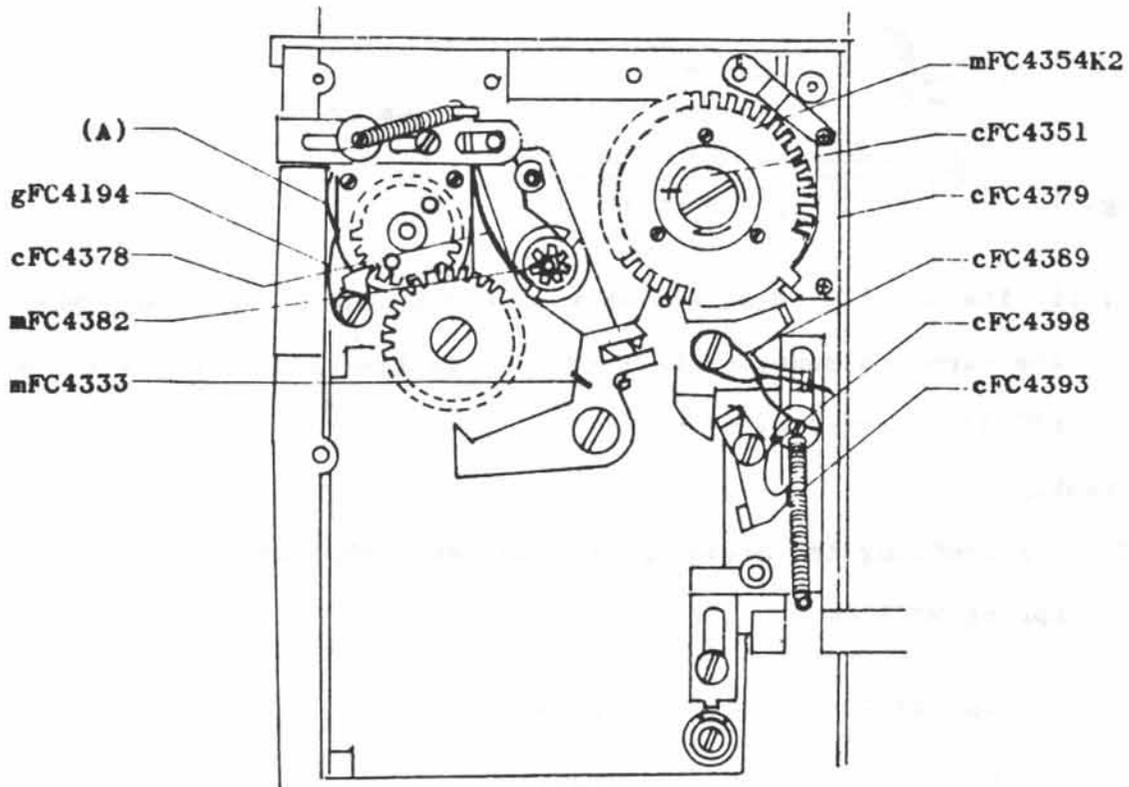


Fig. 6

Refer to Fig. 6 for hanging each spring.

Since the spring for pawl gFC4194 may slip off, (A) is cemented with D.B. Bond.

(1).10 Since the shaft friction wheel mFC4382 is bonded with

HI-LOCK, together with the friction milled wheel hFC4381 and the gear hFC4383, the shaft friction wheel hFC4382 cannot be disassembled. When the wheel must be removed, nip hFC4381 with a nipper, break the shaft friction wheel, and pull out the shaft friction wheel hFC4382 together with the gear hFC4383.

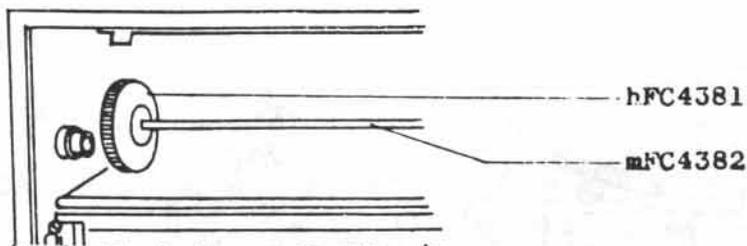


Fig. 7 (Body Back Upper Portion)

(1).11 The dividing disk assembly mFC4354K2 can be taken off when the exposure counter shaft cFC4351 is loosened. Do not loosen cFC4379. (See Fig. 6)

(2) Assembly

(2).1 Assembling the dividing disk assembly mFC4354K2 and the spring mFC4359



Fig. 8

Insert the spring mFC4359 into the groove of the camera body as shown above. While keeping the dividing disk assembly above the groove, pull out the edge of the spring with a pincette from the center hole. Insert the spring into the groove of the dividing disk as shown in the picture (above center). After applying bonding agent to the tip of the exposure counter shaft cFC4351, rotate the dividing disk counterclockwise once to position the whole assembly as shown in the picture (above right), then secure it tightly with screws.

(2).2 Assembly of the shaft friction wheel mFC4382. (See exploded views, pages 3 and 4)

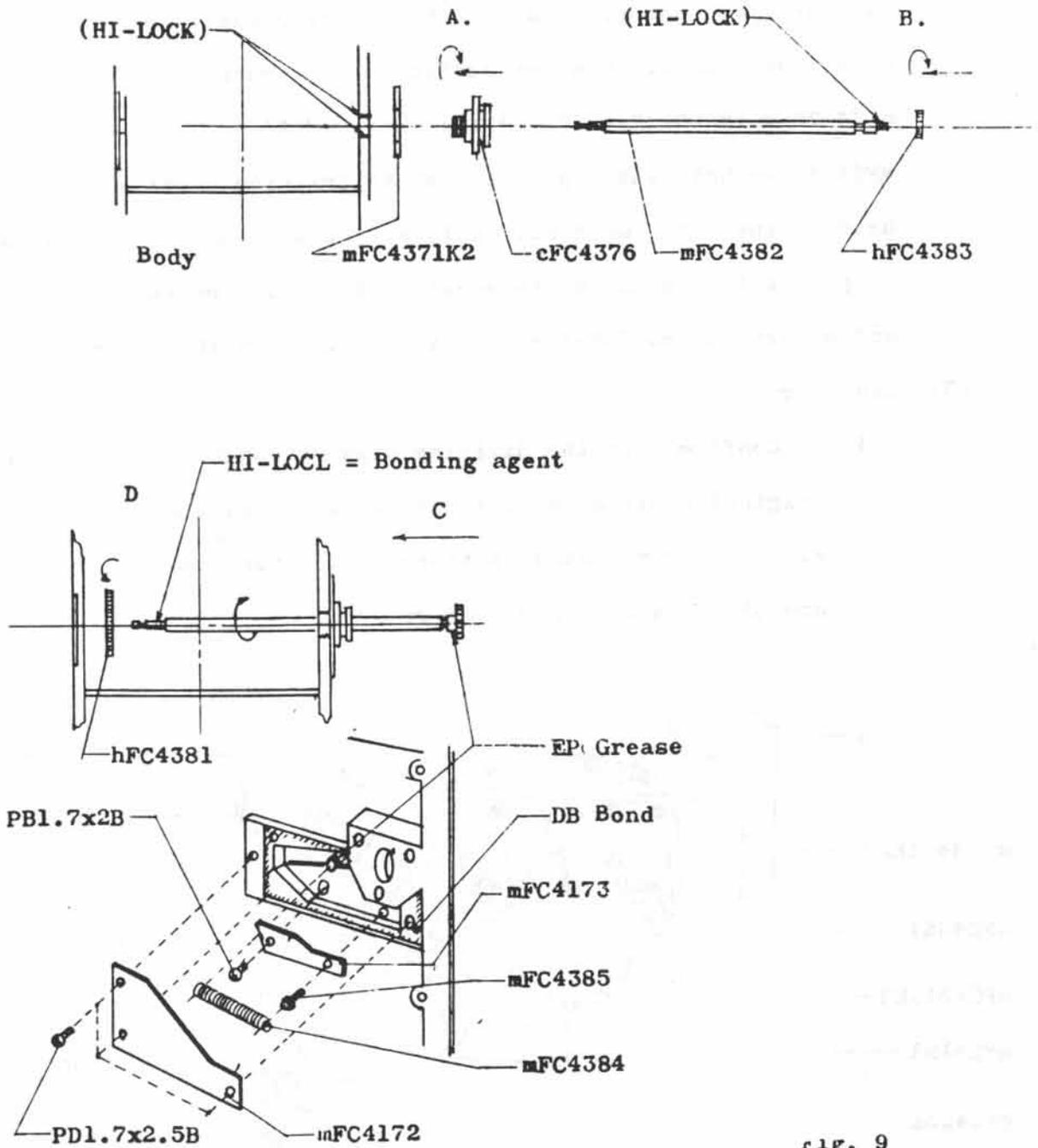


Fig. 9

Apply HI-LOCK bonding agent to the places pointed out in the above pictures, and assemble the shaft friction wheel in the order of A, B, C, and D. Use a pin-faced screwdriver to tighten the flanged screw cFC4376, and when the friction milled wheel hFC4381 is assembled, use pincers for the friction wheel shaft, making sure that both of them are sufficiently secure. After securing mFC4173 with PBl.7 x 2B and the screw mFC4385, hook the spring mFC4384 on both the tip of the shaft friction wheel and the head of the screw mFC4385, apply EP grease, apply some D.B.Bond to places indicated in the above pictures to prevent light leaks, and secure the hollow-cover mFC4172 tightly with screws.

(3) Checking

(3).1 Confirm that the dividing disk mFC4354K2 returns to its original position when the disk is turned counterclockwise with a finger (until it touches or almost touches the stopper) and the finger is suddenly removed.

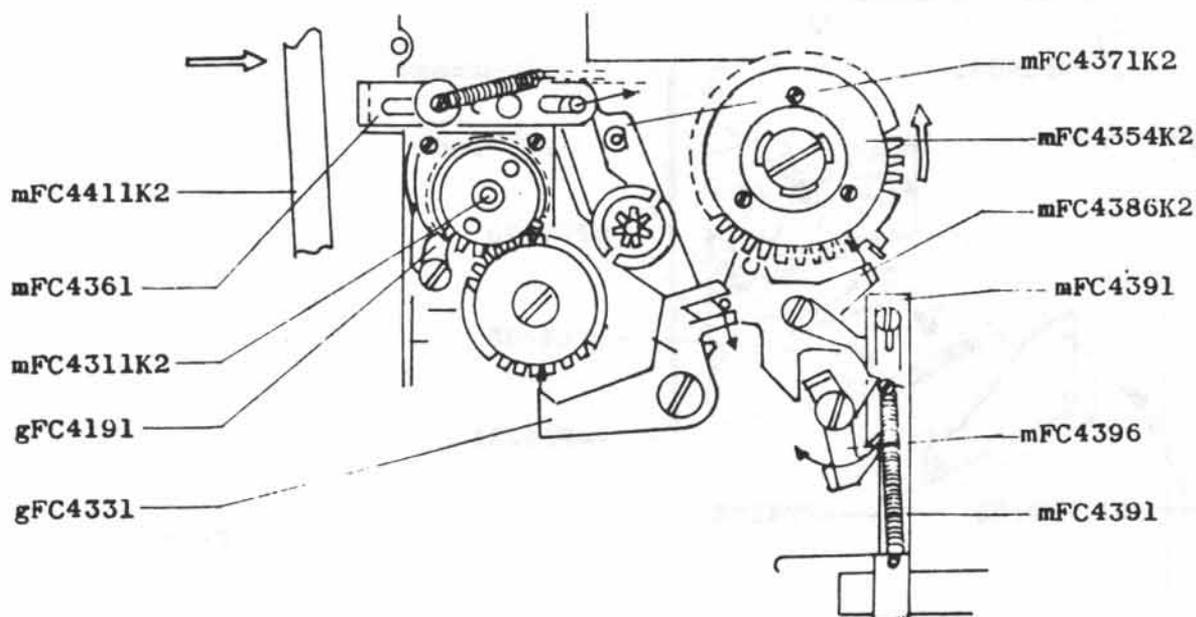


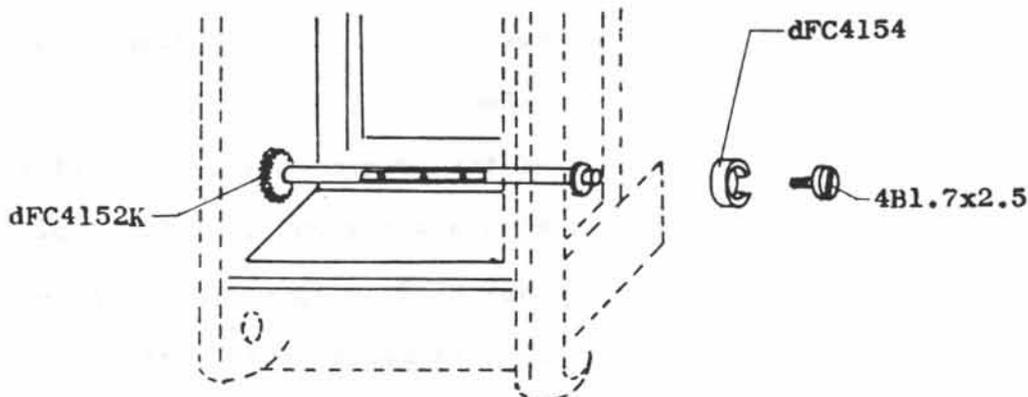
Fig. 10

- (3).2 Are all the screws tight?
- (3).3 Does the pawl gFC4191 operate well when the film winding gear assembly mFC4311K2 is turned counterclockwise?
- (3).4 Do the lever counter reset mFC4361, the lever counter reset assembly mFC4371K2, the pawl gFC4331, the wind stop lever assembly mFC4386K2, and the latch mFC4396 all operate properly when the back cover mFC4411K2 is closed (when it is pressed in the arrow direction shown)? Does the bent place of the wind stop lever assembly mFC4386K2 meet the cut-off point of the dividing disk when the dividing disk mFC4354K2 is turned counterclockwise? At the same time; does the tip of the pawl gFC4331 jump into the gear, and will the tip of the latch mFC4396 slip out from the lever counter reset assembly mFC4391, and does it go back to its original position (see Fig. 10) when the back cover is opened?

5. Light-tight Flap, Lever Assembly (Refer to exploded view, pages 3 and 4.)

(1) Disassembly

Remove the light-tight flap FC4155K2 from the back of the camera body.



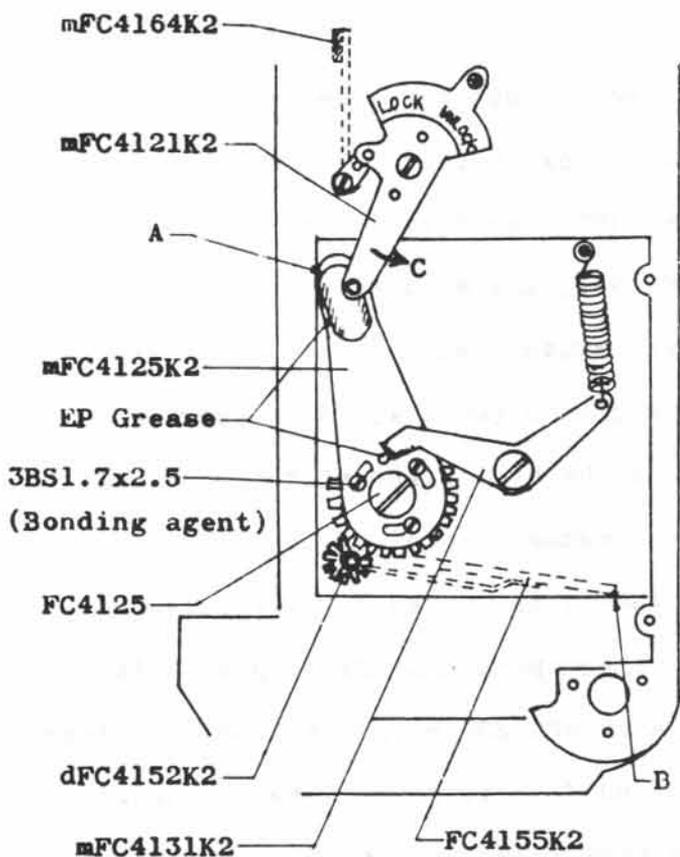


Fig. 11

By loosening the screw 4B1.7x2.5 shown above and pulling out the gear shaft assembly dFC4152K from the opposite side, the light-tight flap can be removed.

(2) Assembly and adjustment

The related position of the dFC4152K and the cut slit of the safety collar dFC4154 is shown in Fig. 11, above. Apply bonding agent to the tip of the screw 4B1.7x2.5, and secure the safety collar to the dFC4152K with the screw.

Then attach the light-tight flap assembly and secure it with a screw. Be careful of the related position of the flap assembly and the lever assembly FC4152K2 (see Fig. 11, below). Keep the play at "A" from 0 to 0.5mm. Let "B" touch the wall of the camera body by adjusting with a screw 3BS1.7x2.5. Apply some bonding agent to the screw. At this stage, the relative

position of the red warning signal mFC4164K2 must be as shown in the picture.

(3) Checking

(3).1. When the condition is like the picture at the bottom of Fig. 11, the cut slit of the safety collar dFC4154K on the other side faces upward.

(3).2. Confirm that the light-tight flap closes for certain when the lock lever mFC4121K2 is turned in the direction of the arrow mark (C). Check this by pushing it from the camera front with your finger.

6. Front Panel Rack Plate (Refer to exploded view, page 5)

(1) Disassembly

Remove the ten screws aFC4567 on the front. Since D.B.Bond is attached between the small bellows assembly aFC4564K and the front panel mFC4511 to prevent leaks of straying light, add lacquer thinner or methyl ethyl keton between them when they cannot be separated. Then remove the stopper aFC4653 and pull out the front panel from the camera body.

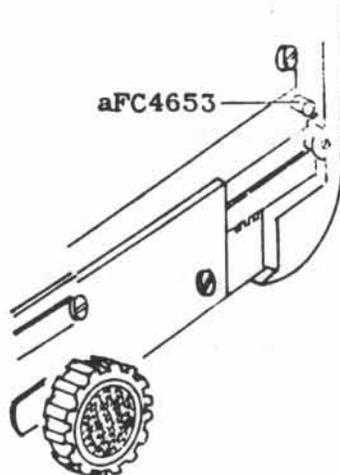


Fig. 12

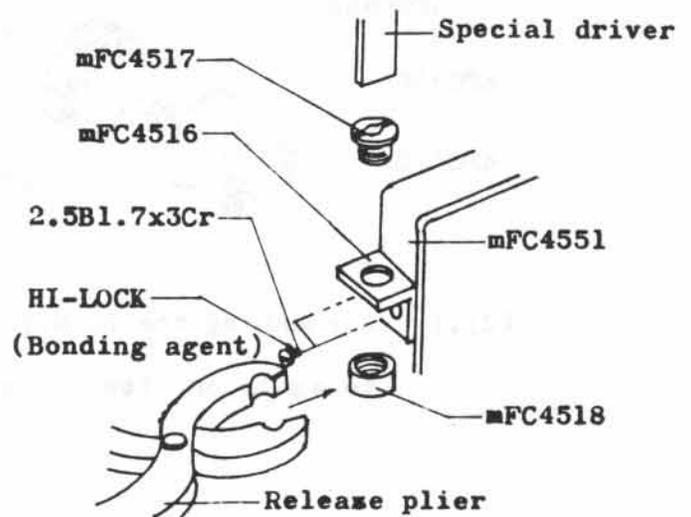


Fig. 13

Since the bracket mFC4516 is fixed with the screw 2.5Bl.7x3Cr, to which HI-LOCK is applied; make holes on the top two screws with a.1.4  $\phi$  drill before disassembling. For other information on disassembling this front panel and the (rack) plate, refer to Fig. 13 or to the exploded view on page 5.

(2) Assembly

After disassembling the focusing knobs on both sides of the front panel, as shown in Fig. 13, insert them from the front, and continue assembling in the opposite manner of disassembly. After screwing in the nut aFC4662, add Pliobond. Reapply the leatherette cFC4721 with Pliobond.

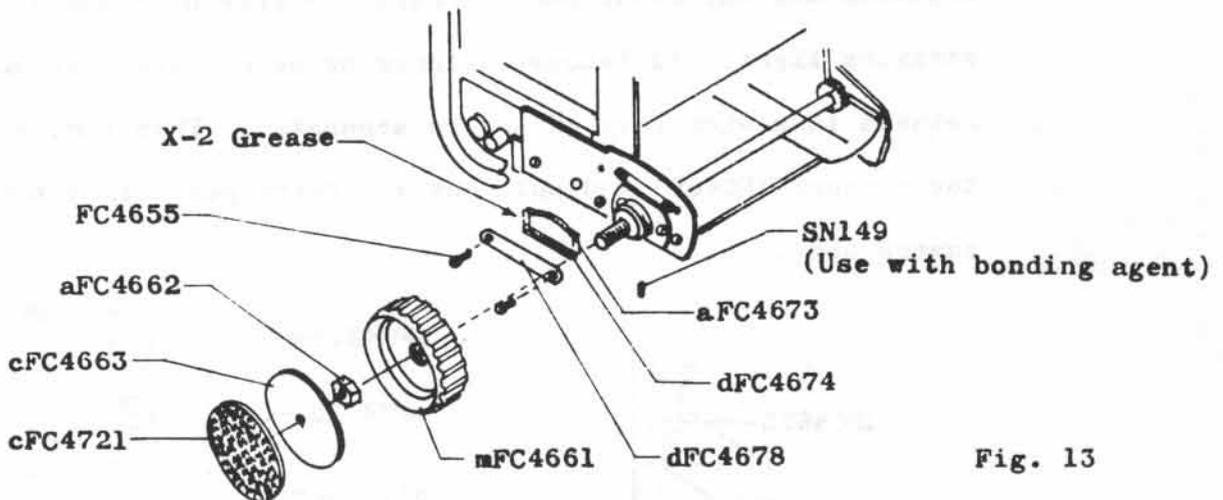


Fig. 13

(2).1. Exchanging the rack, plate and the guide plate. (Refer to exploded views, pages 3, 4, and 5.)

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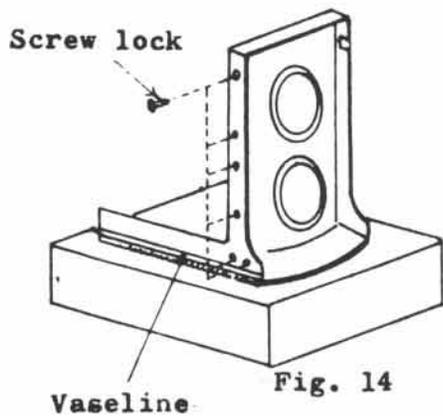


Fig. 14

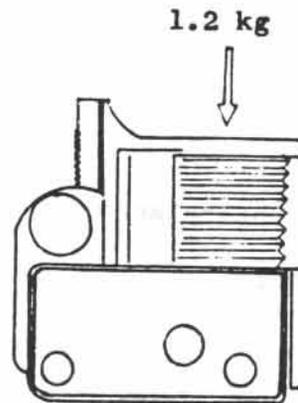


Fig. 15

First, combine the rack plates mFC4651 and mFC4652 and the guide plates mFC4671 and mFC4672, rubbing them against each other and adding some vaseline. Use bonding agent to assemble the frame mFC4551 and the rack plates with the screw. Place the guide plate on the base as shown in Fig. 14 and determine the plane angle of the rack plate assembly. After assembling the guide plate onto the camera body, adjust the torque of the focusing knobs by the screws SN149 (see Fig. 13).

When a weight of less than 1.2kg is placed on the center of the front panel, the front panel should not start moving by itself. (Fig. 15)

## II. ADJUSTMENTS

### 1. Adjusting the Focus (Refer to exploded view, page 2)

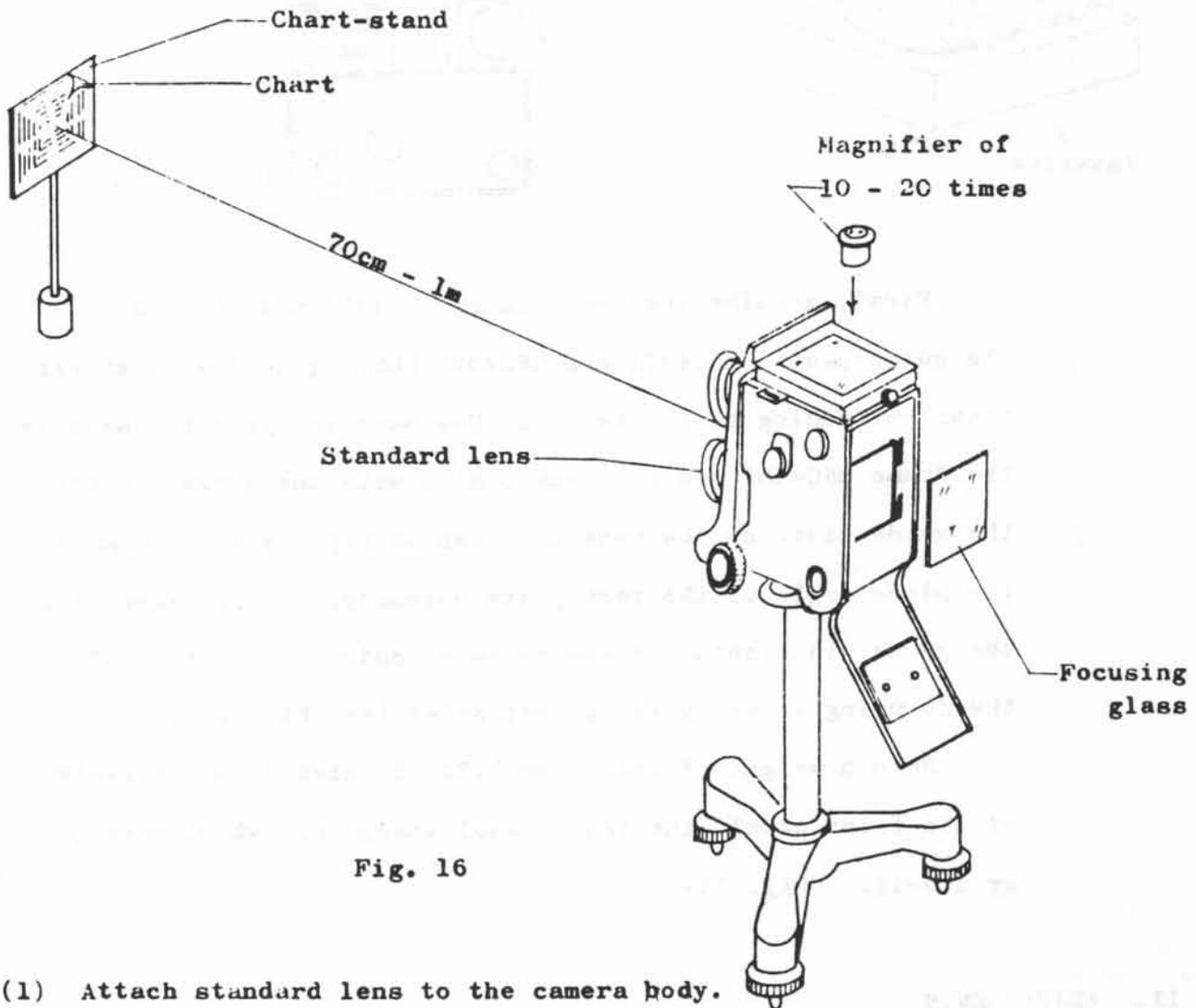


Fig. 16

- (1) Attach standard lens to the camera body.

(Standard lens: one whose lens back of the taking lens and the viewing lens is well adjusted)

- (2) Set the camera as shown in Fig. 16, and focus the plane chart on the ground glass focusing screen. The chart can be a stereo chart.
- (3) Then, without moving the focusing knob, attach a focusing screen on the film rail of the camera body, making sure that

the chart is also well focused on the film plane.

- (4) When the chart is not focused on the focusing screen at the film plane, move the focusing knob until an image clearly focused on the focusing screen at the film plane is seen, then add the washer FC4067 and the washer 4W2x0.1 until a clearly focused image is visible on the ground glass focusing screen. (See Fig. 16.A)

Tighten the screws aFC4066.

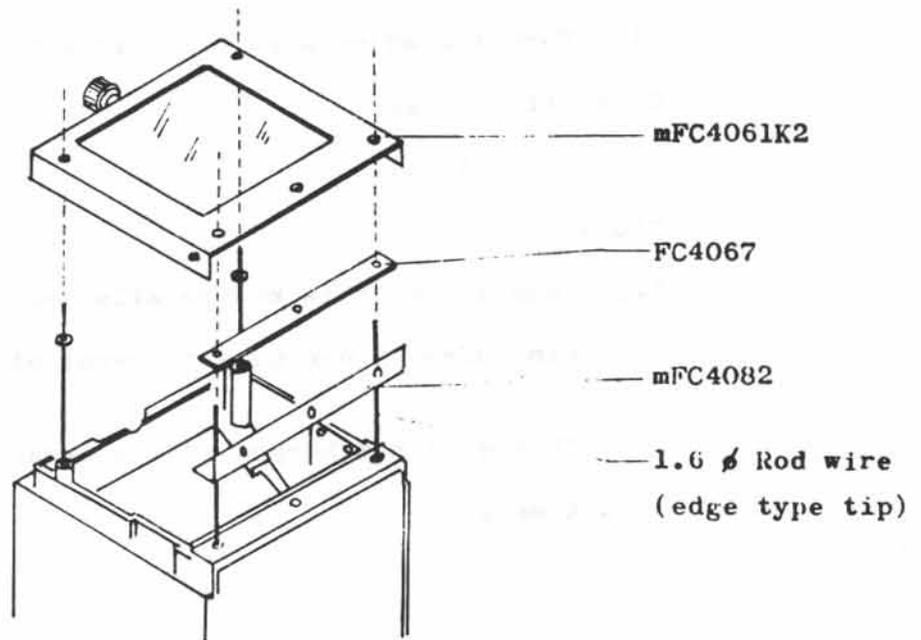


Fig. 16.A

NOTE: Before adding washers for adjustment, prepare four 1.6  $\phi$  rod wires. Insert the wires into the camera body as shown in Fig. 16.A, then add the washers. With this method, the ground glass focusing screen can be assembled without dropping the washers.

### III. TROUBLE-SHOOTING...CAUSES AND REPAIR METHODS

#### 1. Focusing

Cause

(1) Focusing adjustment is imperfect.

Corrective action:

Refer to II.1.

Cause

(2) Lens assembly is not parallel against the film plane.

(Includes erroneous attachment of lens to the body.)

This will not happen if the camera is used under normal conditions.

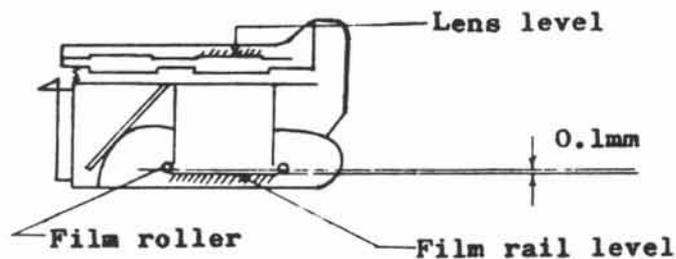
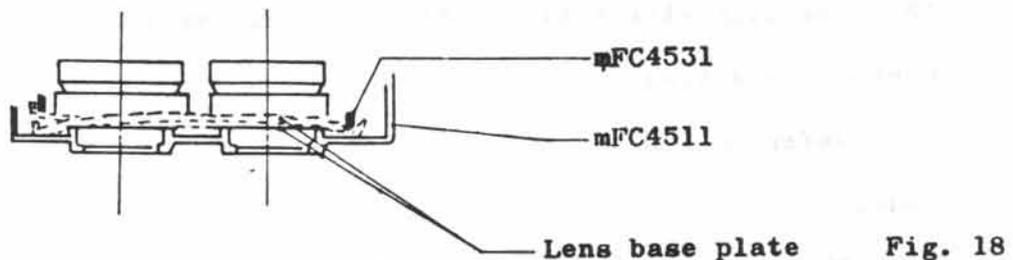


Fig. 17

**Corrective action:**

- (2).1. Check for erroneous play between camera body and the rack plate mechanism.
- o Check the play of each screw.
  - o Check for breakage or dropped off brake spring aFC4673.  
(Refer to exploded view, page 4.)
- (2).2. Check if the film roller is projecting over the film plane. The film roller must be about 0.1mm lower than the film plane. If the film roller is bent, repair the roller or replace it with another one.
- (2).3. Check if the clamp bracket mFC4531 is completely sustaining the lens. (Refer to exploded view, page 5) Also check if the lens base plate is curved. In the latter case, repair the curve or replace the parts.



**Cause**

- (3) Lens itself is wrong.

**Corrective action:**

Check if the front lens assembly is loosened, check the back of the lens, and check the resolution power of the lens.

## 2. Light Leaks

### Cause

- (1) What about shading between front panel and small bellows?  
(Refer to exploded view, page 5.)

### Corrective action:

Insert a light-tight strip aFC4724 between the two and add D.B.Bond to it (when the camera is disassembled for cleaning).

### Cause

- (2) Is the light-tight strip positioned on the back cover as required, or does the back cover close completely?

### Corrective action:

Check and take proper action.

### Cause

- (3) The light-tight flap FC4155K2 is not well adjusted.

### Corrective action:

Refer to I.5.

### Cause

- (4) When small bellows has a hole, or when some parts are not in place, etc.

## 3. Operation of Shutter Release Button

(Refer to Fig. 6 of I.4)

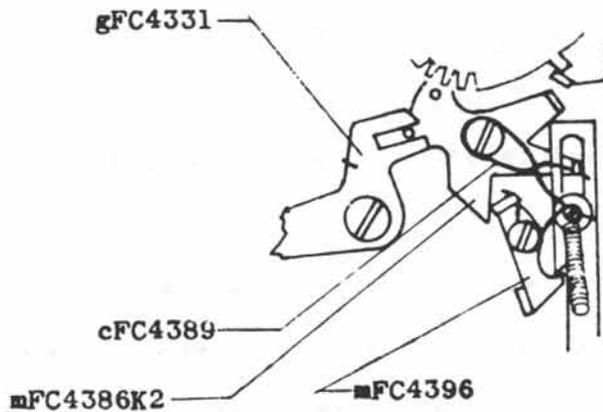


Fig. 19

**Cause**

- (1) The spring cFC4389 is off (in this case, the wind stop does not work).

Or the spring is not strong enough to force the wind stop lever to jump into the dividing disk completely.

**Corrective action:**

Reset or replace the spring.

**Cause**

- (2) Parts gFC4331, mFC4386K2, or mFC4396 do not function properly.

**Corrective action:**

Check and take proper action.

**Cause**

- (3) The wind stop lever is off the mFC4396, and the latch does not work.

**Corrective action:**

Repair or replace the parts.

#### 4. Advancing and/or Resetting Exposure Counter

##### Cause

- (1) The spring mFC4384 is off. (See Fig. 9 of I.4, (2).2)

##### Corrective action:

Open the back cover and push the shaft friction wheel;  
if the exposure counter resets, no special action is necessary.  
If the exposure counter does not reset, take action by  
referring to I.4, (2).2.

##### Cause

- (2) Exposure counter in back cover opening does not reset.

##### Corrective action:

Remove the left panel mFC4621K2, and repair the counter  
reset lever mFC4361. At the same time, adjust play of the  
back cover so that the lever functions properly. If the counter  
reset lever does not return when the back cover is opened,  
the exposure counter will not be reset.

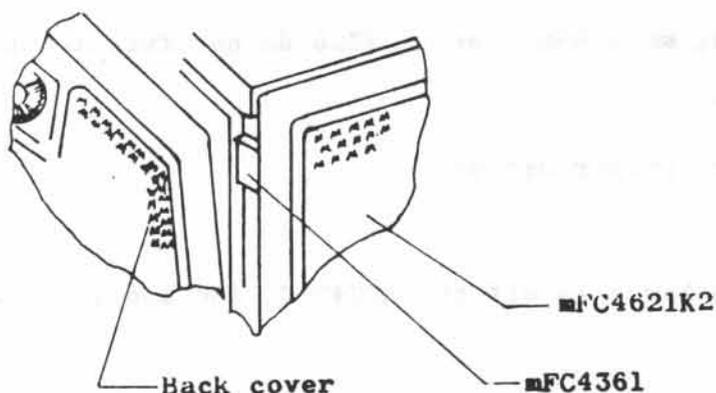


Fig. 20

##### Cause

- (3) The spring mFC4359 is off. (Fig. 8 of I.4, (2).1)

Corrective action:

If the exposure counter does not reset when the back cover is opened, refer to I.4, (2).1, taking proper action.

5. Wind Stop Does Not Function

Cause

(1) Same as III.3.(1). (2)

Corrective action:

Check and take proper action.

Cause

(2) Same as III.4.(2)

Corrective action:

Check and take proper action.

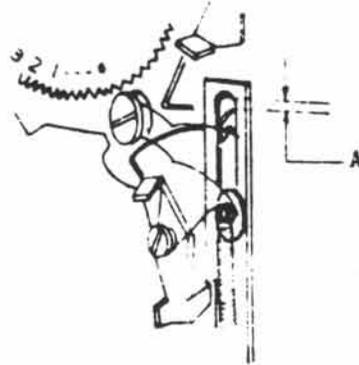


Fig. 21

Cause

(3) The pawl gFC4331 does not meet the gear properly. (Refer to Fig. 10)

Corrective action:

Sharpen the edge of "A" with a file.



6. Wind Stop Released Before Shutter

Since this model is so designed, this cannot be repaired. However, if adjustment is desired it can be done by adjusting the space at "A".

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# **SERVICE MANUAL**

**EXPLODED VIEWS**

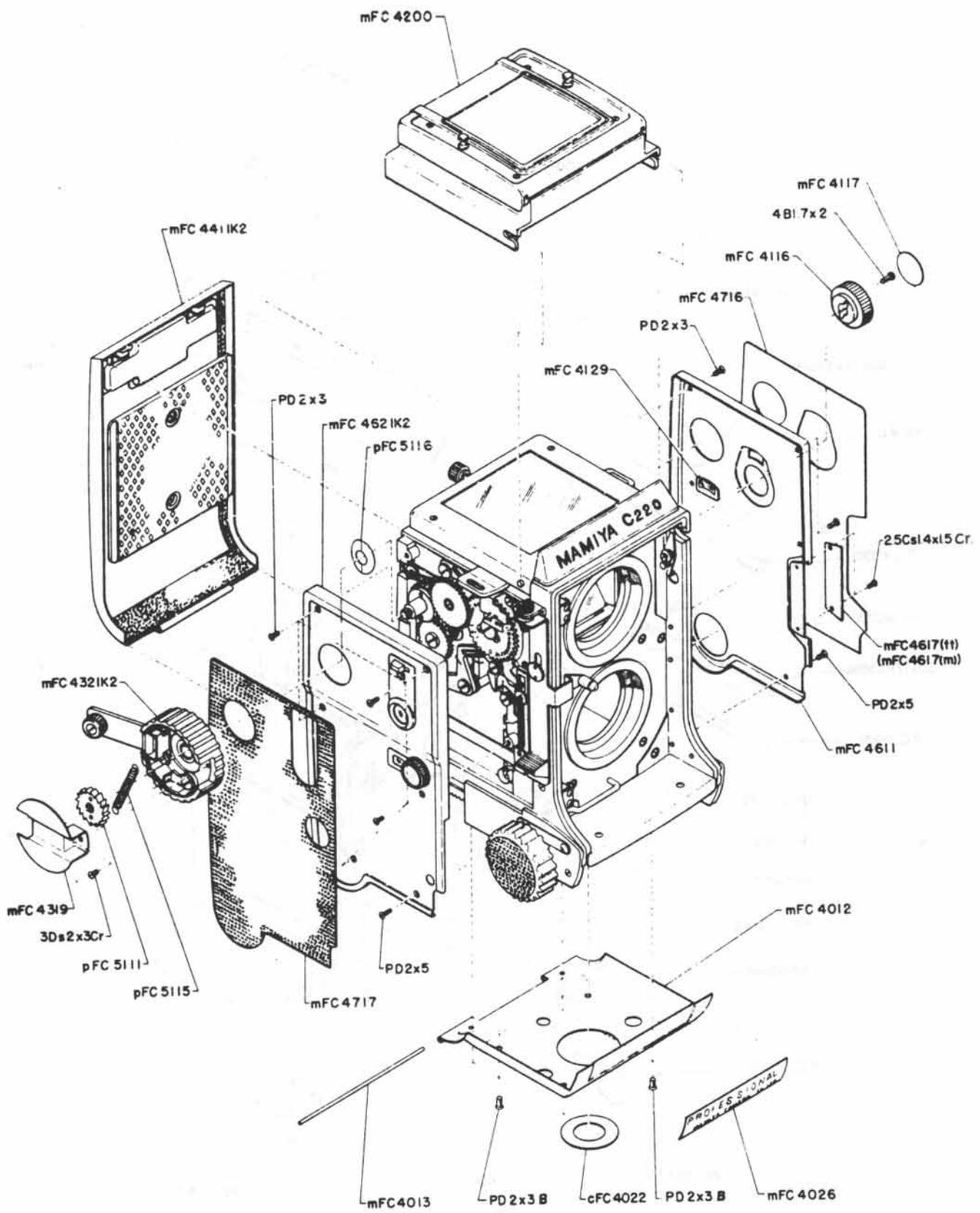
**for**

**MAMIYA C220 Professional**

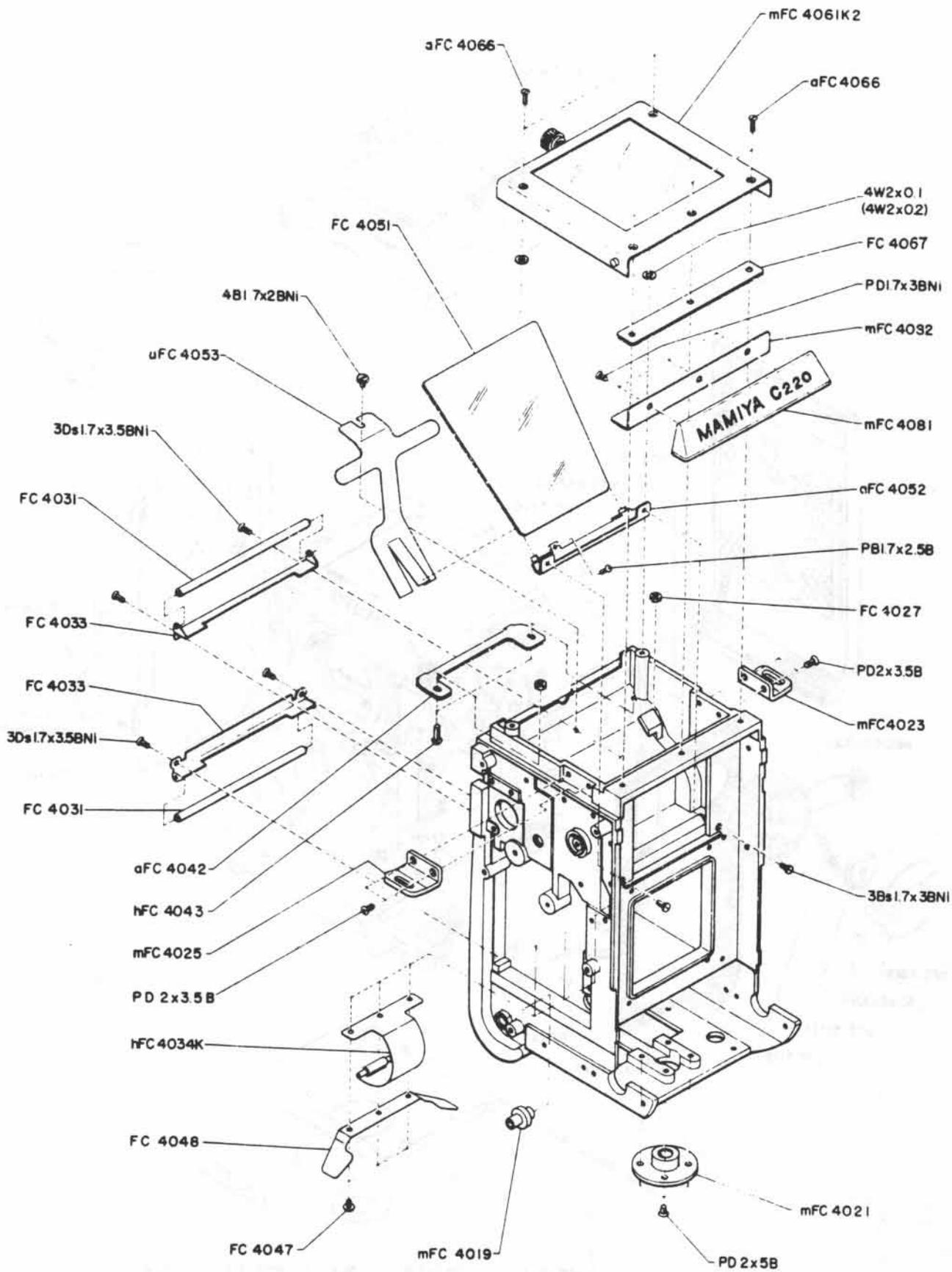
**(mFC)**

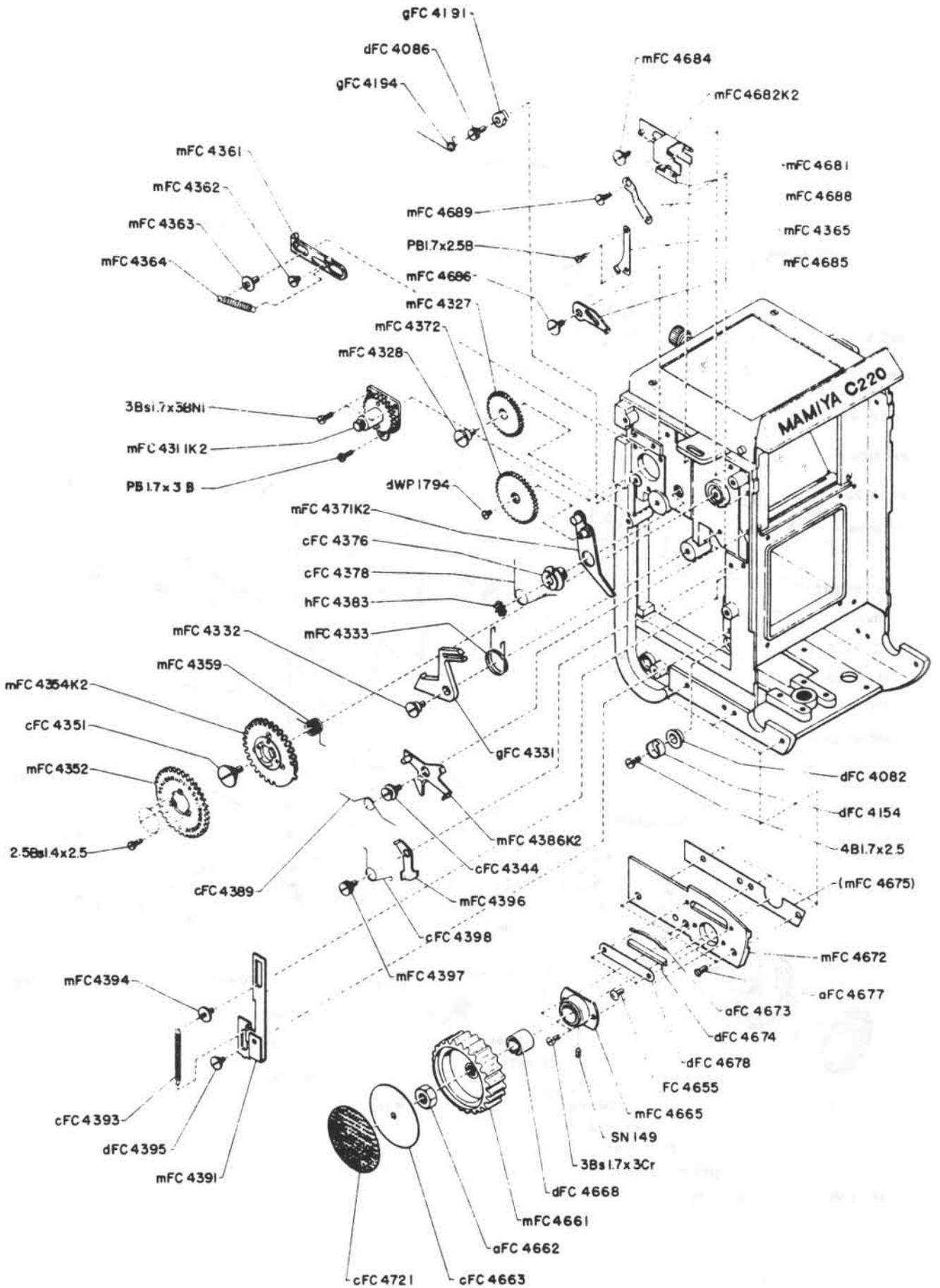


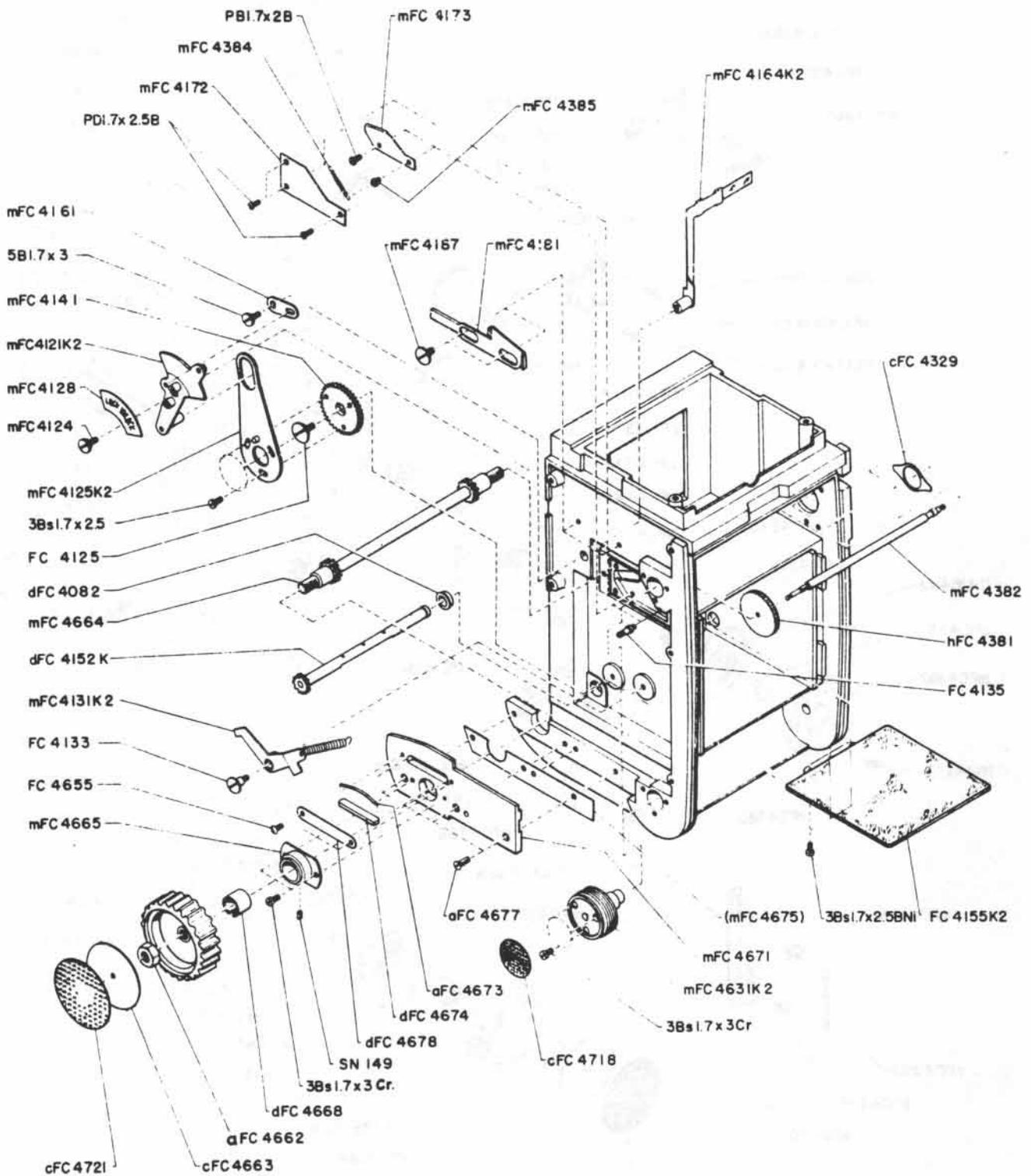
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**TOKYO JAPAN**

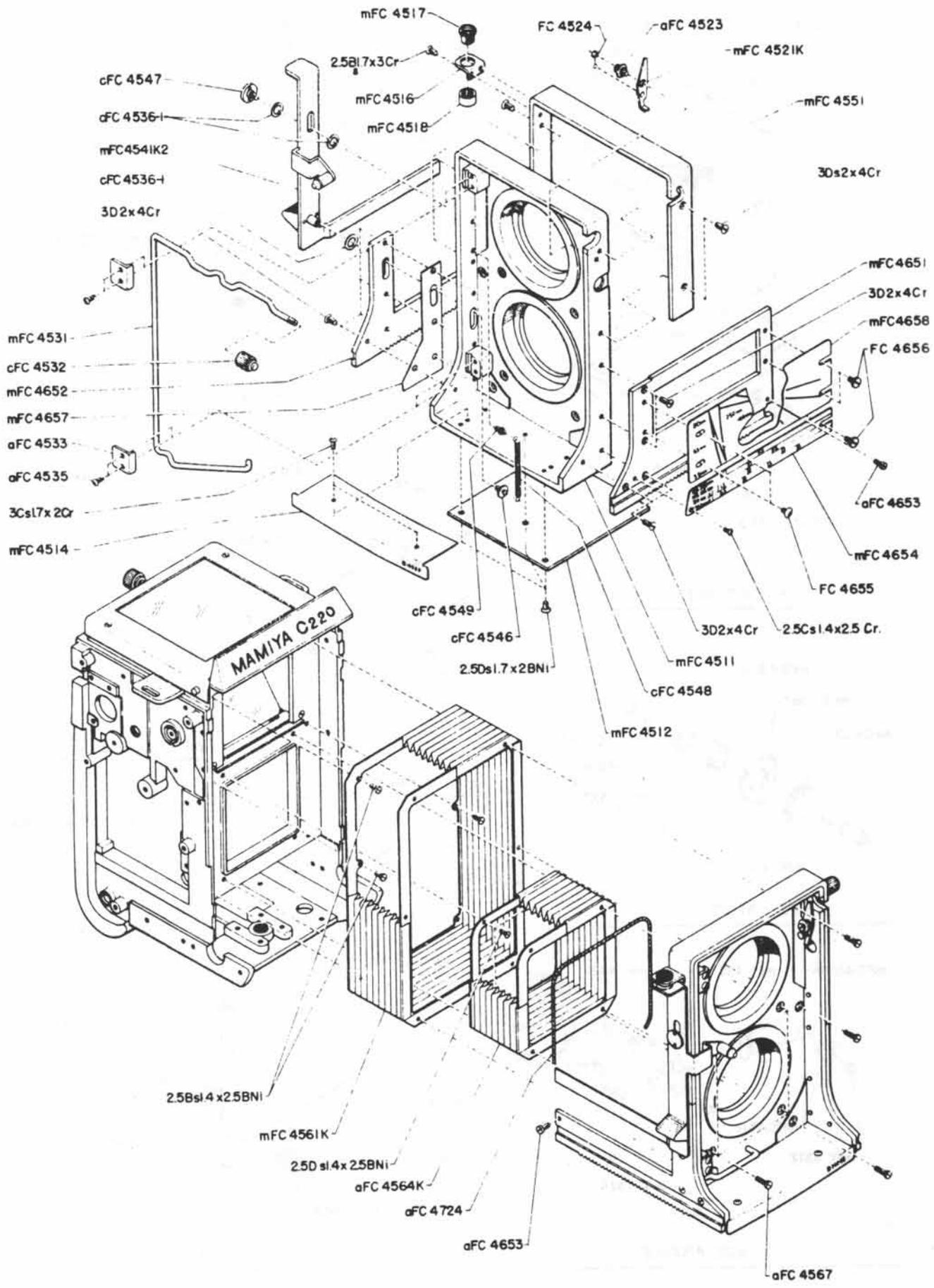


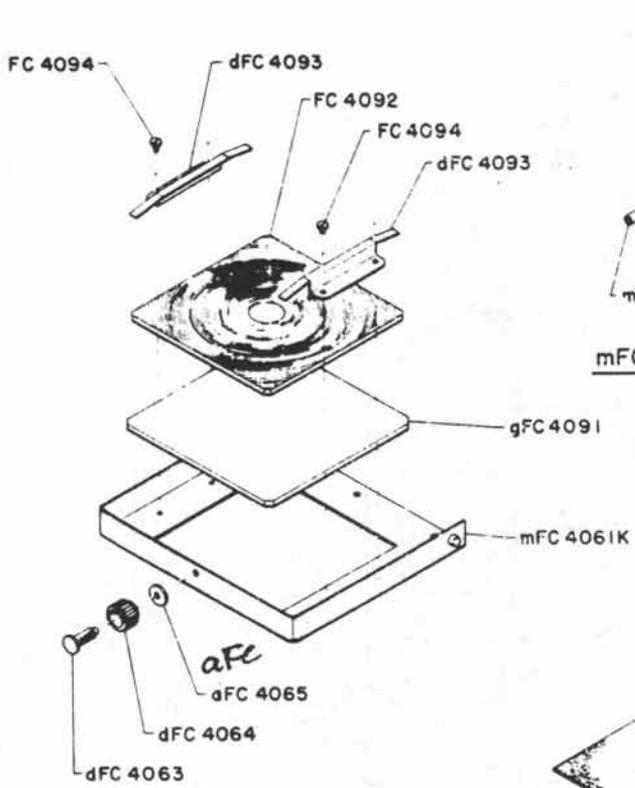
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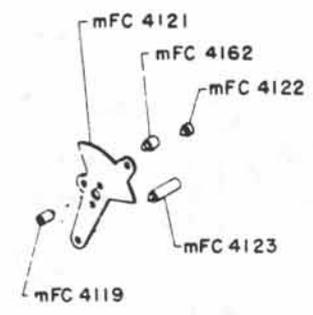




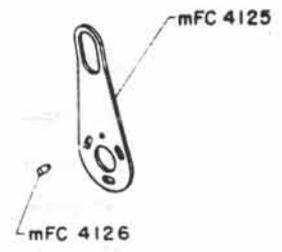




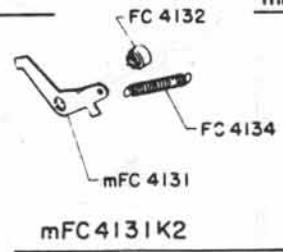
mFC 4061K2



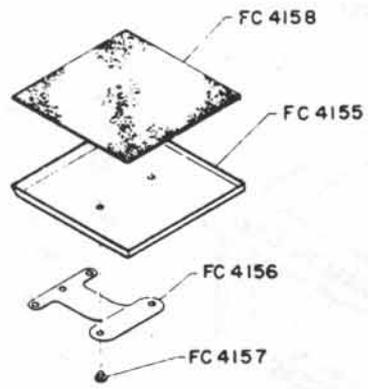
mFC 4121K2



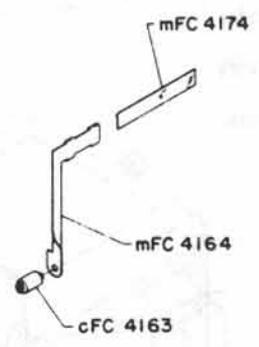
mFC 4125K2



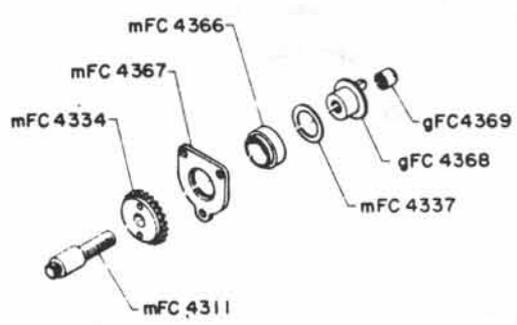
mFC 4131K2



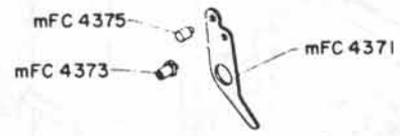
mFC 4155K2



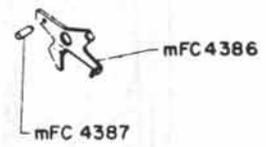
mFC 4164K2



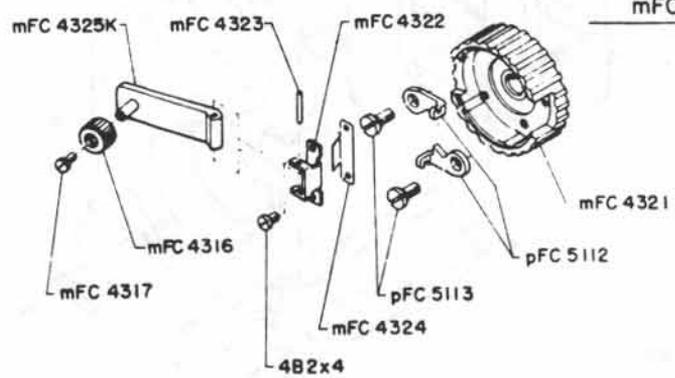
mFC 4311K2



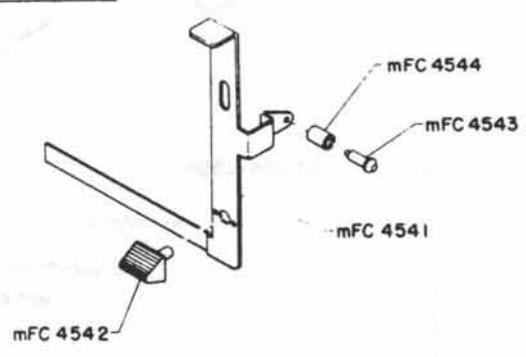
mFC 4371K2



mFC 4386K2

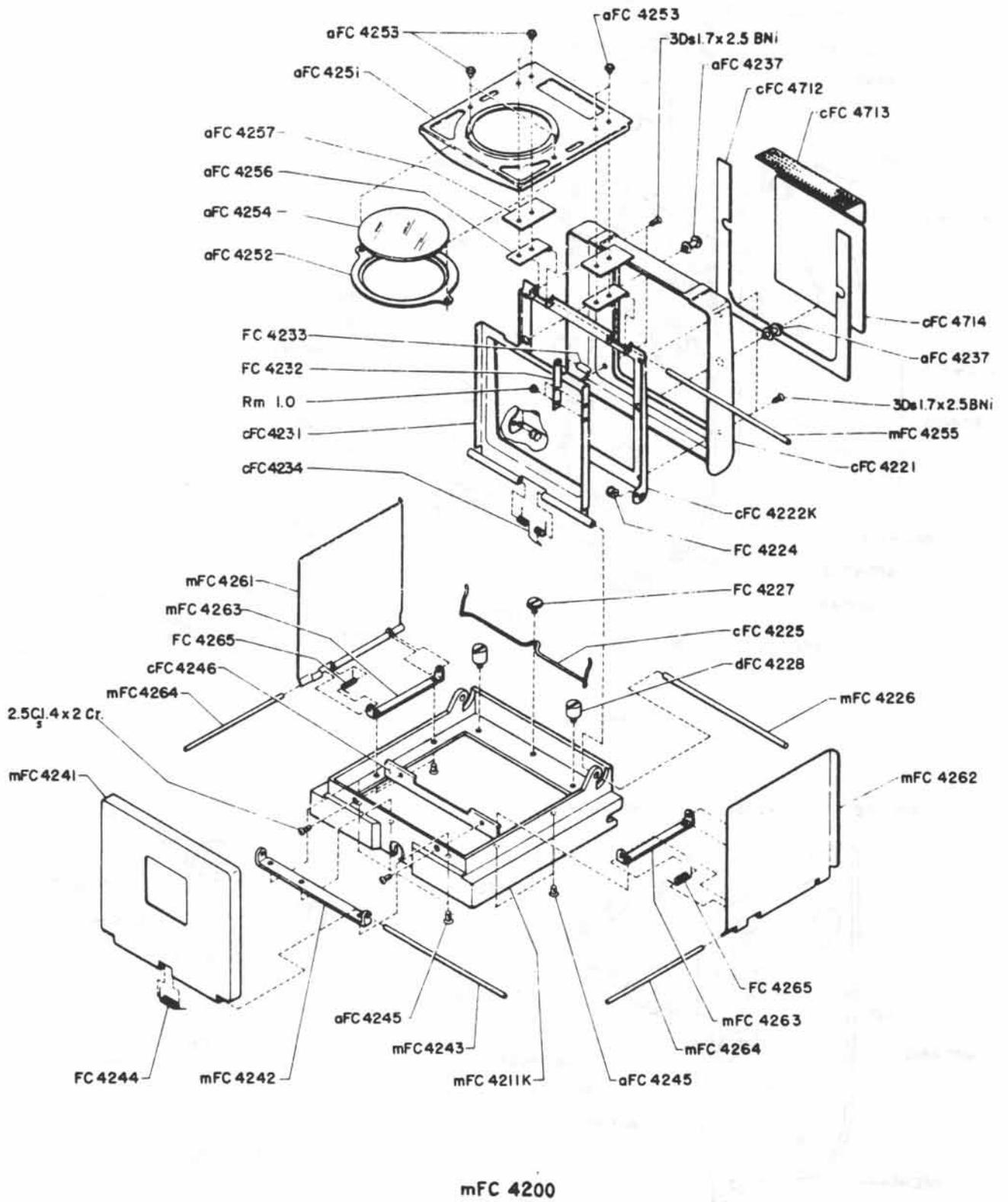


mFC 4321K2



mFC 4541K2

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PARTS LIST

METHOD OF REQUESTING SPARE PARTS FOR REPAIR USE

When ordering spare parts for repair purposes, mark the request in the following manner after referring to our parts lists.

Spare parts are divided as follows:

- Not considered usable for repairing ..... x
- Can be supplied ..... o
- Not available individually but supplied as subassembled parts ..... x\*
- Can be supplied either as individual parts or as subassemblies ..... o\*

NOTE:

When ordering spare parts, always type the complete code and numbers in the Parts No. column of the appropriate parts lists.

EXAMPLE:

(Model and nomenclature of camera)

| Parts No.         | Description           | Quantity |
|-------------------|-----------------------|----------|
| mFC 4012          | Bottom cover          | 5        |
| mFC 4125K2        | Lever assembly        | 5        |
| hFC 4381          | Friction milled wheel | 5        |
| pFC 5116-2-4      | Washer                | 20       |
| 3Bs 1.7 x 2.5 BNi | Screw                 | 20       |
| PB 1.7 x 2.5 B    | Screw                 | 20       |

| Parts No.        | Common Parts No. | Description                   | Pcs. | Term of sale | Ref. page | Remarks |
|------------------|------------------|-------------------------------|------|--------------|-----------|---------|
| mFC 4011         |                  | Camera body                   | 1    | x            | 4         |         |
| mFC 4012         |                  | Bottom cover                  | 1    | o            |           |         |
| mFC 4013         |                  | Hinge shaft                   | 1    | o            | 1         |         |
| PD2x3BN1         |                  | Screw for mFC 40i2            | 6    | o            | 1         |         |
| mFC 4019         |                  | Film spool holder             | 1    | o            | 2         |         |
| mFC 4021         |                  | Tripod socket                 | 1    | o            | 2         |         |
| cFC 4022         |                  | Leatherette for Tripod socket | 1    | o            | 1         |         |
| mFC 4023         |                  | Right strap loop              | 1    | o            | 2         |         |
| PD2x3.5B         |                  | Screw for mFC 4023 & 4025     | 4    | o            | 2         |         |
| mFC 4025         |                  | Left strap loop               | 1    | o            | 2         |         |
| mFC 4026         |                  | Name plate                    | 1    | o            | 1         |         |
| PD2x5B           |                  | Screw for mFC 4021            | 4    | o            | 2         |         |
| FC 4031          |                  | Film roller                   | 2    | o            | 2         |         |
| FC 4033          |                  | Bracket for film roller       | 2    | o            | 2         |         |
| <u>hFC 4034K</u> |                  | T-spring assy.                | 1    | o            | 2         |         |
| hFC 4034         |                  | T-spring                      | 1    | x*           |           |         |
| hFC 4035         |                  | T-spring roller               | 1    | x*           |           |         |
| 3Ds 1.7x3.5BN1   |                  | Screw for FC 4032 & 4033      | 4    | o            | 2         |         |
| aFC 4042         |                  | Catch plate                   | 1    | o            | 2         |         |
| hFC 4043         |                  | Screw                         | 2    | o            | 2         |         |

| Parts No.         | Common Parts No.  | Description                   | Pcs.      | Term of sale | Ref. page | Remarks |
|-------------------|-------------------|-------------------------------|-----------|--------------|-----------|---------|
| FC 4027           | mFC 4044          | Nut                           | 2         | o            | 2         |         |
| FC 4047           |                   | Screw                         | 3         | o            | 2         |         |
| FC 4048           |                   | Leaf spring                   | 1         | o            | 2         |         |
| FC 4051           |                   | Mirror                        | 1         | o            | 2         |         |
| aFC 4052          |                   | Bracket for mirror            | 1         | o            | 2         |         |
| aFC 4053          |                   | Spring for clamp mirror       | 1         | o            | 2         |         |
| 4B 1.7x2 BN1      |                   | Screw for aFC 4053            | 1         | o            | 2         |         |
| 3Bs 1.7x3 BN1     |                   | Screw for aFC 4052            | 2         | o            | 2         |         |
| PB 1.7x2.5B       |                   | Screw for aFC 4052            | 1         | o            | 2         |         |
| <u>mFC 4061K2</u> |                   | <u>Frame, focusing screen</u> | 1         | o            | 2.6       |         |
| - mFC 4061 K      |                   | Frame, focusing screen        | 1         | o            | 6         |         |
| - FC 4062         |                   | Pin                           | 2         | x            |           |         |
| - dFC 4063        |                   | Screw                         | 1         | o            | 6         |         |
| - dFC 4064        |                   | Nut                           | 1         | o            | 6         |         |
| - aFC 4065        |                   | Washer                        | 1         | o            | 6         |         |
| aFC 4066          |                   | Screw                         | 5         | o            | 2         |         |
| mFC 4081          |                   | Name plate                    | 1         | o            | 2         |         |
| mFC 4082          |                   | Bracket                       | 1         | o            | 2         |         |
| PD 1.7x3 BN1      |                   | Screw for mFC 4082            | 3         | o            | 2         |         |
| FC 4067           | 0.1<br>0.2<br>0.5 | Washer                        | 0 to<br>2 | o            | 2         |         |
| 4W2x0.1           |                   | Washer                        | 0 to<br>2 | o            | 2         |         |
| 4W2x0.2           |                   | Washer                        | 0 to<br>2 | o            | 2         |         |
| 4W2x0.5           |                   | Washer                        | 0 to<br>2 | o            |           |         |
| - gFC 4091        |                   | Ground glass                  | 1         | o*           | 6         |         |

| Parts No.         | Common<br>Parts No. | Description                                | Pcs. | Term<br>of<br>sale | Ref.<br>page | Remarks |
|-------------------|---------------------|--|------|--------------------|--------------|---------|
| FC 4092           |                     | Fresnel lens                               | 1    | o*                 | 6            |         |
| dFC 4093          |                     | Ground glass spring<br>plate               | 2    | o*                 | 6            |         |
| FC 4094           |                     | Screw                                      | 4    | o*                 | 6            |         |
| mFC 4116          |                     | Knob                                       | 1    | o                  | 1            |         |
| mFC 4117          |                     | Disk                                       | 1    | o                  | 1            |         |
| mFC 4119          |                     | Boss                                       | 2    | o*                 | 6            |         |
| 4B 1.7x2          |                     | Screw for mFC 4116                         | 2    | o                  | 1            |         |
| <u>mFC 4121K2</u> |                     | Lock lever assy.                           | 1    | o                  | 4.6          |         |
| mFC 4121          |                     | Lock lever                                 | 1    | o*                 | 6            |         |
| mFC 4122          |                     | Lock pin                                   | 1    | o*                 | 6            |         |
| mFC 4123          |                     | Pin  | 1    | o*                 | 6            |         |
| mFC 4162          |                     | Pin  | 1    | o*                 | 6            |         |
| mFC 4124          |                     | Shoulder screw                             | 1    | o                  | 4            |         |
| <u>mFC 4125K2</u> |                     | Lever assy.                                | 1    | o                  | 4.6          |         |
| mFC 4125          |                     | Lever                                      | 1    | o*                 | 6            |         |
| mFC 4126          |                     | Pin  | 1    | o*                 | 6            |         |
| 3Bs 1.7x2.5       |                     | Screw for mFC 4125K2                       | 3    | o                  | 4            |         |
| mFC 4128          |                     | Label, "lock, unlock"                      | 1    | o                  | 4            |         |
| mFC 4129          |                     | Window glass                               | 1    | o                  | 1            |         |
| <u>mFC 4131K2</u> |                     | Control lever, lock<br>and unlock assembly | 1    | o                  | 4.6          |         |
| mFC 4131          |                     | Control lever                              | 1    | o*                 | 6            |         |
| FC 4132           |                     | Hub  | 1    | o*                 | 6            |         |
| FC 4133           |                     | Shoulder screw                             | 1    | o                  | 4            |         |
| FC 4134           |                     | Spring                                     | 1    | o*                 | 6            |         |

| Parts No.         | Common<br>Parts No. | Description            | Pcs. | Term<br>of<br>sale | Ref.<br>page | Remarks    |
|-------------------|---------------------|------------------------|------|--------------------|--------------|------------|
| FC 4135           |                     | Shoulder screw, anchor | 1    | o                  | 4            |            |
| mFC 4141          |                     | Idle gear              | 1    | o                  | 4            |            |
| FC 4125           | mFC 4142            | Shoulder screw         | 1    | o                  | 4            |            |
| FC 4151           |                     | Gear                   | 1    | X                  |              |            |
| <u>dFC 4152K</u>  |                     | Gear shaft assy.       | 1    | o                  | 4            |            |
| dFC 4082          | mFC 4153            | Sleeve bearing         | 2    | o                  | 3&4          |            |
| dFC 4154          |                     | Safety collar          | 1    | o                  | 3            |            |
| <u>FC 4155K2</u>  |                     | Light-tight flap assy. | 1    | o                  | 4.6          |            |
| FC 4155           |                     | Light-tight flap       | 1    | o*                 | 6            |            |
| FC 4156           |                     | Spring arm             | 1    | o*                 | 6            |            |
| FC 4157           |                     | Rivet                  | 2    | o*                 | 6            |            |
| FC 4158           |                     | Velveteen              | 1    | o*                 | 6            |            |
| 4B 1.7x2.5        |                     | Screw for dFC 4154     | 1    | o                  | 3            |            |
| 3Bs 1.7x2.5BN1    |                     | Screw for FC 4155K2    | 3    | o                  | 4            |            |
| mFC 4161          |                     | Idle lever             | 1    | o                  | 4            |            |
| (mFC 4162)        |                     | Pin                    | 1    | o*                 | 6            | mFC 4121K2 |
| cFC 4163          |                     | Hub                    | 1    | o*                 | 6            |            |
| <u>mFC 4164K2</u> |                     | Red warning signal     | 1    | o                  | 4.6          |            |
| mFC 4164          |                     | Signal arm             | 1    | o*                 | 6            |            |
| mFC 4174          |                     | Red signal             | 1    | o*                 | 6            |            |
| 5B 1.7x3          |                     | Screw for mFC 4164K2   | 1    | o                  | 4            |            |
| mFC 4172          |                     | Hollow cover           | 1    | o                  | 4            |            |
| mFC 4173          |                     | Guid plate             | 1    | o                  | 4            |            |
| (mFC 4174)        |                     | Red signal             | 1    | o*                 | 6            | mFC 4164K2 |
| PD 1.7x2.5B       |                     | Screw for mFC 4172     | 3    | o                  | 4            |            |

| Parts No.        | Common<br>Parts No. | Description              | Pcs. | Term<br>of<br>sale | Ref.<br>page | Remarks |
|------------------|---------------------|--------------------------|------|--------------------|--------------|---------|
| PB 1.7x2B        |                     | Screw for mFC 4173       | 1    | o                  | 4            |         |
| mFC 4181         |                     | unlock lever             | 1    | o                  | 4            |         |
| mFC 4187         |                     | Shoulder screw           | 2    | o                  | 4            |         |
| gFC 4191         |                     | Pawl                     | 1    | o                  | 3            |         |
| dFC 4086         | mFC 4192            | Shoulder screw           | 1    | o                  | 3            |         |
| gFC 4194         |                     | Spring for pawl complete | 1    | o                  | 3            |         |
| <u>mFC 4200</u>  |                     | Focusing hood            | 1    | o                  | 1. 7         |         |
| <u>mFC 4211K</u> |                     | Frame assy.              | 1    | o*                 | 7            |         |
| -mFC 4211        |                     | Frame                    | 1    | x*                 |              |         |
| -mFC 4212        |                     | Bearing                  | 2    | x*                 |              |         |
| -cFC 4221        |                     | Finder frame             | 1    | o*                 | 7            |         |
| <u>cFC 4222K</u> |                     | Finder frame assy.       | 1    | o*                 | 7            |         |
| -cFC 4222        |                     | Finder frame             | 1    | x*                 |              |         |
| -FC 4223         |                     | Bearing                  | 2    | x*                 |              |         |
| -FC 4224         |                     | Spring anchor            | 2    | o*                 | 7            |         |
| -cFC 4225        |                     | Spring                   | 1    | o*                 | 7            |         |
| -mFC 4226        |                     | Shaft                    | 1    | o*                 | 7            |         |
| -FC 4227         |                     | Shoulder screw           | 1    | o*                 | 7            |         |
| -dFC 4228        |                     | Screw                    | 2    | o*                 | 7            |         |
| -3Ds 1.7x2.5BNi  |                     | Screw for cFC 4221       | 4    | o*                 | 7            |         |
| -cFC 4231        |                     | Finder flap              | 1    | o*                 | 7            |         |
| -FC 4232         |                     | Arm plate                | 1    | o*                 | 7            |         |
| -FC 4233         |                     | Pin                      | 1    | o*                 | 7            |         |
| -cFC 4234        |                     | Spring                   | 1    | o*                 | 7            |         |
| -aFC 4237        |                     | Pin                      | 2    | o*                 | 7            |         |
| -Rm 1.0          |                     | Rivet for FC 4232        | 2    | o*                 | 7            |         |

| Parts No.         | Common<br>Parts No. | Description             | Pcs.      | Term<br>of<br>sale | Ref.<br>page | Remarks |
|-------------------|---------------------|-------------------------|-----------|--------------------|--------------|---------|
| mFC 4241          |                     | Rear plate              | 1         | o*                 | 7            |         |
| mFC 4242          |                     | Bracket                 | 1         | o*                 | 7            |         |
| mFC 4243          |                     | Shaft                   | 1         | o*                 | 7            |         |
| FC 4244           |                     | Spring                  | 1         | o*                 | 7            |         |
| aFC 4245          |                     | Screw                   | 7         | o*                 | 7            |         |
| cFC 4246          |                     | Stopper plate           | 1         | o*                 | 7            |         |
| 2.5Csl.4x2Cr      |                     | Screw for cFC 4246      | 2         | o*                 | 7            |         |
| aFC 4251          |                     | Plate                   | 1         | o*                 | 7            |         |
| aFC 4252          |                     | Retainer                | 1         | o*                 | 7            |         |
| aFC 4253          |                     | Rivet                   | 6         | o*                 | 7            |         |
| aFC 4254          |                     | Magnifying glass        | 1         | o*                 | 7            |         |
| mFC 4255          |                     | Shaft                   | 1         | o*                 | 7            |         |
| aFC 4256          |                     | Spring plate            | 2         | o*                 | 7            |         |
| aFC 4257          |                     | Plate                   | 2         | o*                 | 7            |         |
| mFC 4261          |                     | Right plate             | 1         | o*                 | 7            |         |
| mFC 4262          |                     | Left plate              | 1         | o*                 | 7            |         |
| mFC 4263          |                     | Bracket                 | 2         | o*                 | 7            |         |
| mFC 4264          |                     | Shaft                   | 2         | o*                 | 7            |         |
| FC 4265           |                     | Spring                  | 2         | o*                 | 7            |         |
| <u>mFC 4311K2</u> |                     | Film winding gear assy. | 1         | o                  | 3.6          |         |
| mFC 4311          |                     | Winding shaft           | 1         | o*                 | 6            |         |
| mFC 4334          |                     | Winding gear            | 1         | o*                 | 6            |         |
| mFC 4337          |                     | Washer                  | 0 to<br>1 | o*                 | 6            |         |
| mFC 4366          |                     | Bearing                 | 1         | o*                 | 6            |         |
| mFC 4367          |                     | Plate                   | 1         | o*                 | 6            |         |

| Parts No.         | Common Parts No. | Description             | Pcs. | Term of sale | Ref. page | Remarks |
|-------------------|------------------|-------------------------|------|--------------|-----------|---------|
| -gFC 4368         |                  | Coupler for spool       | 1    | o°           | 6         |         |
| -gFC 4369         |                  | Nut                     | 1    | o°           | 6         |         |
| pFC 5112          | mFC 4312         | Ratchet pawl            | 2    | o°           | 6         |         |
| pFC 5113          | mFC 4313         | Shoulder screw          | 2    | o°           | 6         |         |
| pFC 5111          | mFC 4314         | Ratchet wheel           | 1    | o            | 1         |         |
| pFC 5115          | mFC 4315         | Spring                  | 1    | o            | 1         |         |
| mFC 4316          |                  | Knob                    | 1    | o°           | 6         |         |
| mFC 4317          |                  | Shoulder screw          | 1    | o°           | 6         |         |
| dWP 1794          | mFC 4318         | Shoulder screw          | 1    | o            | 3         |         |
| mFC 4319          |                  | Knob cover              | 1    | o            | 1         |         |
| 3Ds2x3Cr          |                  | Screw for mFC 4319      | 1    | o            | 1         |         |
| <u>mFC 4321K2</u> |                  | Film winding knob assy. | 1    | o            | 1.6       |         |
| -mFC 4321         |                  | Film winding knob       | 1    | o°           | 6         |         |
| -mFC 4322         |                  | Bracket                 | 1    | o°           | 6         |         |
| -mFC 4323         |                  | Shaft                   | 1    | o°           | 6         |         |
| -mFC 4324         |                  | Spring                  | 1    | o°           | 6         |         |
| mFC 4325K         |                  | Winding lever assy.     | 1    | o°           | 6         |         |
| -mFC 4325         |                  | Winding lever           | 1    | x°           |           |         |
| -mFC 4326         |                  | Boss                    | 1    | x°           |           |         |
| mFC 4327          |                  | Idle gear               | 1    | o            | 3         |         |
| mFC 4328          |                  | Shoulder screw          | 1    | o            | 3         |         |
| cFC 4329          |                  | Pointer                 | 1    | o            | 4         |         |
| -4B2x4            |                  | Screw for mFC 4322      | 2    | o°           | 6         |         |
| gFC 4331          |                  | Pawl                    | 1    | o            | 3         |         |
| mFC 4332          |                  | Shoulder screw          | 1    | o            | 3         |         |
| mFC 4333          |                  | Spring                  | 1    | o            | 3         |         |

| Partz No.         | Common Parts No. | Description             | Pcs.   | Term of sale | Ref. page | Remarks    |
|-------------------|------------------|-------------------------|--------|--------------|-----------|------------|
| (mFC 4334)        |                  | Winding gear            | 1      | o*           | 6         | mFC4311K2  |
| pFC 5116-1        | mFC 4335         | Washer                  | 1      | o            | 1         |            |
| pFC 5116-2-4      | mFC 4335         | Washer                  | 0 to 3 | o            |           |            |
| (mFC 4337)        |                  | Washer                  | 0 to 2 | o*           | 6         | mFC4311K2  |
| cFC 4351          |                  | Shoulder screw          | 1      | o            | 3         |            |
| mFC 4352          |                  | Counter                 | 1      | o            | 3         |            |
| mFC 4353          |                  | Counter base            | 1      | x*           |           |            |
| <u>mFC 4354K2</u> |                  | Dividing disk assy.     | 1      | o            | 3         |            |
| hFC 4354          |                  | Dividing disk           | 1      | x*           |           |            |
| hFC 4355          |                  | Auxiliary dividing disk | 1      | x*           |           |            |
| cFC 4356          |                  | Pin                     | 1      | x*           |           |            |
| cFC 4357          |                  | Pin                     | 1      | x*           |           |            |
| hFC 4358          |                  | Spring                  | 1      | x*           |           |            |
| mFC 4359          |                  | Spring                  | 1      | o            | 3         |            |
| FC 4379           |                  | Screw                   | 3      | x*           |           |            |
| mFC 4361          |                  | Lever, counter reset    | 1      | o            | 3         |            |
| mFC 4362          |                  | Shoulder screw          | 1      | o            | 3         |            |
| cFC 4363          |                  | Flanged screw, anchor   | 1      | o            | 3         |            |
| mFC 4364          |                  | Spring                  | 1      | o            | 3         |            |
| mFC 4365          |                  | Stopper                 | 1      | o            | 3         |            |
| (mFC 4366)        |                  | Bearing                 | 1      | o*           | 6         | mFC 4311K2 |
| (mFC 4367)        |                  | Plate                   | 1      | o*           | 6         | mFC4311K2  |
| (gFC 4368)        |                  | Coupler for spool       | 1      | o*           | 6         | mFC 4311K2 |
| (gFC 4369)        |                  | Nut                     | 1      | o*           | 6         | mFC4311K2  |
| 3Bs 1.7x3BN1      |                  | Screw for mFC 4311K2    | 2      | o            | 3         |            |

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| Parts No.         | Common<br>Parts No. | Description                | Pcs. | Term<br>of<br>sale | Ref.<br>page | Remarks    |
|-------------------|---------------------|----------------------------|------|--------------------|--------------|------------|
| <u>mFC 4371K2</u> |                     | Lever, counter reset assy. | 1    | o                  | 3.6          |            |
| mFC 4371          |                     | Lever, counter reset       | 1    | o*                 | 6            |            |
| mFC 4372          |                     | Gear                       | 1    | o                  | 3            |            |
| mFC 4373          |                     | Hub                        | 1    | o*                 | 6            |            |
| PD 1.7x3          |                     | Screw for mFC 4311K2       | 1    | o                  | 3            |            |
| mFC 4375          |                     | Boss                       | 1    | o*                 | 6            |            |
| cFC 4376          |                     | Flanged screw              | 1    | o                  | 3            |            |
| 2.5Ba1.4x2.5      |                     | Screw for mFC 4352         | 3    | o                  | 3            |            |
| cFC 4378          |                     | Spring                     | 1    | o                  | 3            |            |
| (cFC 4379)        |                     | Screw                      | 3    | x*                 |              | mFC 4354K2 |
| PB1.7x2.5B        |                     | Screw for mFC 4365         | 2    | o                  | 3            |            |
| hFC 4381          |                     | Friction milled wheel      | 1    | o                  | 4            |            |
| mFC 4382          |                     | Shaft, friction wheel      | 1    | o                  | 4            |            |
| hFC 4383          |                     | Gear                       | 1    | o                  | 3            |            |
| mFC 4384          |                     | Spring                     | 1    | o                  | 4            |            |
| mFC 4385          |                     | Flanged screw, anchor      | 1    | o                  | 4            |            |
| <u>mFC 4386K2</u> |                     | Wind stop lever assy.      | 1    | o                  | 3.6          |            |
| mFC 4386          |                     | Wind stop lever            | 1    | o*                 | 6            |            |
| mFC 4387          |                     | Pin                        | 1    | o*                 | 6            |            |
| cFC 4344          | mFC 4388            | Shoulder screw             | 1    | o                  | 3            |            |
| cFC 4389          |                     | Spring                     | 1    | o                  | 3            |            |
| mFC 4391          |                     | Slider bar                 | 1    | o                  | 3            |            |
| cFC 4393          |                     | Spring                     | 1    | o                  | 3            |            |
| mFC 4394          |                     | Shoulder screw             | 1    | o                  | 3            |            |
| dFC 4395          |                     | Shoulder screw             | 1    | o                  | 3            |            |
| mFC 4396          |                     | Latch                      | 1    | o                  | 3            |            |

| Parts No.         | Common Parts No. | Description         | Pcs.   | Term of sale | Ref. page | Remarks |
|-------------------|------------------|---------------------|--------|--------------|-----------|---------|
| mFC 4397          |                  | Shoulder screw      | 1      | o            | 3         |         |
| cFC 4398          |                  | Spring              | 1      | o            | 3         |         |
| <u>mFC 4411K2</u> |                  | Back cover assy.    | 1      | o            | 1.8       |         |
| -mFC 4411         |                  | Back cover          | 1      | o*           | 3         |         |
| -mFC 4414         |                  | Light tight strip   | 1      | o*           | 8         |         |
| -mFC 4421         |                  | Film pressure plate | 1      | o*           | 8         |         |
| -FC 4422          |                  | Leaf spring         | 2      | o*           | 8         |         |
| -FC 4423          |                  | Nut                 | 2      | o*           | 8         |         |
| -mFC 4424         |                  | Boss                | 2      | o*           | 8         |         |
| -FC 4425          |                  | Screw               | 2      | o*           | 8         |         |
| -mFC 4427         |                  | Label, 120,220      | 1      | o*           | 8         |         |
| -mFC 4441         |                  | Latch cover         | 1      | o*           | 8         |         |
| -mFC 4442         |                  | Latch               | 1      | o*           | 8         |         |
| -mFC 4443         |                  | Knob                | 1      | o*           | 8         |         |
| FC 4444           |                  | Spring              | 1      | o*           | 8         |         |
| mFC 4445          |                  | Anchor              | 1      | o*           | 8         |         |
| FC 4446           |                  | Screw               | 4      | o*           | 8         |         |
| -mFC 4447         |                  | Pin                 | 1      | o*           | 8         |         |
| -mFC 4448         |                  | Hub                 | 1      | o*           | 8         |         |
| -cFC 4449         |                  | Spring              | 0 to 1 | o*           | 8         |         |
| -mFC 4451         |                  | Base plate          | 1      | o*           | 8         |         |
| -mFC 4452         |                  | Shoulder rivet      | 2      | o*           | 8         |         |
| -mFC 4454         |                  | Collar              | 1      | o*           | 8         |         |
| -mFC 4455         |                  | Light tight strip   | 1      | o*           | 8         |         |
| -mFC 4456         |                  | Disk, 120,220       | 1      | o*           | 8         |         |
| -mFC 4457         |                  | Disk window         | 1      | o*           | 8         |         |

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| Parts No.         | Common Parts No. | Description              | Pcs. | Term of sale | Ref. page | Remarks |
|-------------------|------------------|--------------------------|------|--------------|-----------|---------|
| mFC 4458          |                  | Click                    | 1    | o*           | 8         |         |
| Rm 1.5            |                  | Rivet for mFC 4458       | 2    | o*           | 8         |         |
| mFC 4459          |                  | Hub                      | 1    | o*           | 8         |         |
| mFC 4715          |                  | Leatherette              | 1    | o*           | 8         |         |
| aFC 4723          |                  | Light tight strip        | 3    | o*           | 8         |         |
| mFC 4511          |                  | Front panel              | 1    | x            | 5         |         |
| mFC 4512          |                  | Plate, bottom cover      | 1    | o            | 5         |         |
| 2.5Dx1.7x2BNI     |                  | Screw for mFC 4512       | 3    | o            | 5         |         |
| mFC 4514          |                  | Front cover              | 1    | o            | 5         |         |
| 3Cx1.7x2Cr        |                  | Screw for mFC 4514       | 2    | o            | 5         |         |
| mFC 4516          |                  | Bracket                  | 1    | o            | 5         |         |
| mFC 4517          |                  | Cable release socket     | 1    | o            | 5         |         |
| mFC 4518          |                  | Nut                      | 1    | o            | 5         |         |
| 2.5Bx1.7x3 Cr     |                  | Screw for mFC 4516       | 2    | o            | 5         |         |
| <u>mFC 4521K</u>  |                  | Safety lever, lens catch | 1    | o            | 5         |         |
| mFC 4521          |                  | Safety lever             | 1    | x*           |           |         |
| FC 4522           |                  | Anchor screw             | 1    | x*           |           |         |
| aFC 4523          |                  | Shoulder screw           | 1    | o            | 5         |         |
| FC 4524           |                  | Spring                   | 1    | o            | 5         |         |
| mFC 4531          |                  | Wire spring, lens catch  | 1    | o            | 5         |         |
| cFC 4532          |                  | knob                     | 1    | o            | 5         |         |
| aFC 4533          |                  | Clamp                    | 2    | o            | 5         |         |
| aFC 4535          |                  | Screw                    | 4    | o            | 5         |         |
| cFC 4536 - 1      |                  | Washer                   | 3    | o            | 5         |         |
| <u>mFC 4541K2</u> |                  | Slide assy.              | 1    | o            | 5.6       |         |
| mFC 4541          |                  | Slide                    | 1    | o*           | 6         |         |

| Parts No.        | Common Parts No. | Description                  | Pcs. | Term of sale | Ref. page | Remarks |
|------------------|------------------|------------------------------|------|--------------|-----------|---------|
| mFC 4542         |                  | Button                       | 1    | o°           | 6         |         |
| mFC 4543         |                  | Shaft-rivet                  | 1    | o°           | 6         |         |
| mFC 4544         |                  | Collar                       | 1    | o°           | 6         |         |
| cFC 4546         |                  | Screw                        | 1    | o            | 5         |         |
| cFC 4547         |                  | Screw                        | 1    | o            | 5         |         |
| cFC 4548         |                  | Spring                       | 1    | o            | 5         |         |
| cFC 4549         |                  | Shoulder screw anchor        | 1    | o            | 5         |         |
| mFC 4551         |                  | Frame                        | 1    | o            | 5         |         |
| 3Ds2x4Cr         |                  | Screw for mFC 4551           | 4    | o            | 5         |         |
| <u>mFC 4561K</u> |                  | Large bellows assy.          | 1    | o            | 5         |         |
| mFC 4561         |                  | Large bellows                | 1    | x°           |           |         |
| aFC 4562         |                  | Front frame                  | 1    | x°           |           |         |
| mFC 4563         |                  | Rear frame                   | 1    | x°           |           |         |
| <u>aFC 4564K</u> |                  | Small bellows assy.          | 1    | o            | 5         |         |
| aFC 4564         |                  | Small bellows                | 1    | x°           |           |         |
| aFC 4565         |                  | Front frame                  | 1    | x°           |           |         |
| aFC 4566         |                  | Rear frame                   | 1    | x°           |           |         |
| aFC 4567         |                  | Screw                        | 10   | o            | 5         |         |
| 2.5Dsl.4x2.5BNi  |                  | Screw for aFC 4564K          | 4    | o            | 5         |         |
| 2.5Bsl.4x2.5BNi  |                  | Screw for mFC 4561K          | 6    | o            | 5         |         |
| mFC 4611         |                  | Right panel                  | 1    | o            | 1         |         |
| mFC 4617         |                  | Distance scale plate (ft)    | 1    | o            | 1         |         |
| mFC 4617         |                  | Distance scale plate (m) (1) | o    | (1)          |           |         |
| PD 2x3B          |                  | Screw for mFC 4611 & 4621K2  | 10   | o            | 1         |         |
| PD2x5B           |                  | Screw for mFC 4611 & 4621K2  | 2    | o            | 1         |         |

| Parts No.         | Common<br>Parts No. | Description             | Pcs. | Term<br>of<br>sale | Ref.<br>page | Remarks |
|-------------------|---------------------|-------------------------|------|--------------------|--------------|---------|
| <u>mFC 4621K2</u> |                     | Left panel assy.        | 1    | o                  | 1.8          |         |
| -mFC 4621         |                     | Left panel              | 1    | o*                 | 8            |         |
| -mFC 4622         |                     | Window for counter      | 1    | o*                 | 8            |         |
| -mFC 4624         |                     | Window for 120,220 film | 1    | o*                 | 8            |         |
| -mFC 4625         |                     | Clamp                   | 1    | o*                 | 8            |         |
| -mFC 4627         |                     | Plate                   | 1    | o*                 | 8            |         |
| -mFC 4628         |                     | Window for 4627         | 1    | o*                 | 8            |         |
| -mFC 4644         |                     | Disk                    | 1    | o*                 | 8            |         |
| -mFC 4645         |                     | Knob                    | 1    | o*                 | 8            |         |
| -mFC 4647         |                     | Disk                    | 1    | o*                 | 8            |         |
| -mFC 4648         |                     | Screw                   | 1    | o*                 | 8            |         |
| -4B 1.7x2.5       |                     | Screw for mFC 4647      | 1    | o*                 | 8            |         |
| -cFC 4649         |                     | Pin for 4647            | 1    | o*                 | 8            |         |
| -mFC 4683         |                     | Button                  | 1    | o*                 | 8            |         |
| <u>mFC 4631K2</u> |                     | Knob assy.              | 2    | o                  | 4.8          |         |
| -mFC 4631         |                     | Knob                    | 2    | o*                 | 8            |         |
| -mFC 4632         |                     | Shaft                   | 2    | x*                 | 8            |         |
| -cFC 4633         |                     | Core for spool holder   | 2    | o*                 | 8            |         |
| -mFC 4634         |                     | Flange                  | 2    | o*                 | 8            |         |
| -mFC 4635         |                     | Spring                  | 2    | o*                 | 8            |         |
| 2.5Cs 1.4x1.5 Cr  |                     | Screw for mFC 4617      | 2    | o                  | 1            |         |
| 3Bs 1.7x3Cr       |                     | Screw                   | 6    | o                  | 4            |         |
| mFC 4651          |                     | Right rack plate        | 1    | o                  | 5            |         |
| mFC 4652          |                     | Left rack plate         | 1    | o                  | 5            |         |
| aFC 4653          |                     | Stopper                 | 2    | o                  | 5            |         |
| mFC 4654          |                     | Exposure factor scale   | 1    | o                  | 5            |         |
| FC 4655           |                     | Screw                   | 2    | o                  | 5            |         |
| FC 4656           |                     | Screw                   | 3    | o                  | 5            |         |

| Parts No.      | Common Parts No. | Description                       | Pcs.   | Term of sale | Ref. page | Remarks   |
|----------------|------------------|-----------------------------------|--------|--------------|-----------|-----------|
| mFC 4657       |                  | Strip for rack plate              | 0 to 1 | o            | 5         |           |
| mFC 4658       |                  | Distance scale plate (curve-line) | 1      | o            | 5         |           |
| 3D 2x4Cr       |                  | Screw for mFC 4651 & 4652         | 8      | o            | 5         |           |
| 25Cs 1.4x2.5Cr |                  | Screw for mFC 4654                | 1      | o            | 5         |           |
| mFC 4661       |                  | Focusing knob                     | 2      | o            | 3         |           |
| aFC 4662       |                  | Nut                               | 2      | o            | 3.4       |           |
| cFC 4663       |                  | Disk                              | 2      | o            | 3.4       |           |
| mFC 4664       |                  | Pinion shaft                      | 1      | o            | 4         |           |
| mFC 4665       |                  | Pinion shaft bearing              | 2      | o            | 3.4       |           |
| dFC 4668       |                  | Synthetic tube                    | 2      | o            | 3.4       |           |
| 3Bs 1.7x3Cr    |                  | Screw for mFC 4665                | 4      | o            | 3.4       |           |
| SN 149         | hFC 4669         | Screw                             | 2      | o            | 3.4       |           |
| mFC 4671       |                  | Guide plate for 4651              | 1      | o            | 4         |           |
| mFC 4672       |                  | Guide plate for 4652              | 1      | o            | 3         |           |
| aFC 4673       |                  | Brake spring                      | 2      | o            | 3.4       |           |
| dFC 4674       |                  | Brake bar                         | 2      | o            | 3.4       |           |
| mFC 4675       |                  | Strip for 4671, 4672              | 0 to 1 | o            | 3.4       |           |
| aFC 4677       |                  | Screw                             | 6      | o            | 3.4       |           |
| dFC 4678       |                  | Hole cover                        | 2      | o            | 3.4       |           |
| FC 4655        | aFC 4679         | Screw                             | 4      | o            | 3.4       |           |
| mFC 4681       |                  | plate "220 120"                   | 1      | o            | 3         |           |
| mFC 4682K2     |                  | Slider assy.                      | 1      | o            | 3.8       |           |
| mFC 4682       |                  | Slider                            | 1      | o*           | 8         |           |
| (mFC 4683)     |                  | Button                            | 1      | o*           | 8         | mFC4621K2 |
| mFC 4684       |                  | Shoulder screw                    | 1      | o            | 3         |           |

| Parts No.  | Common<br>Parts No. | Description                      | Pcs. | Term<br>of<br>sale | Ref.<br>page | Remarks    |
|------------|---------------------|----------------------------------|------|--------------------|--------------|------------|
| mFC 4685   |                     | Lever                            | 1    | o                  | 3            |            |
| mFC 4686   |                     | Shoulder screw                   | 1    | o                  | 3            |            |
| mFC 4687   |                     | Pin                              | 1    | o*                 | 8            |            |
| mFC 4688   |                     | Click                            | 1    | o                  | 3            |            |
| mFC 4689   |                     | Shoulder screw                   | 1    | o                  | 3            |            |
| cFC 4712   |                     | Leatherette for hood             | 1    | o                  | 7            |            |
| cFC 4713   |                     | Leatherette for hood end         | 1    | o                  | 7            |            |
| cFC 4714   |                     | Leatherette for flap             | 1    | o                  | 7            |            |
| (mFC 4715) |                     | Leatherette for back<br>cover    | 1    | o*                 | 8            | mFC 4411K2 |
| mFC 4716   |                     | Leatherette for right<br>panel   | 1    | o                  | 1            |            |
| mFC 4717   |                     | Leatherette for left<br>panel    | 1    | o                  | 1            |            |
| cFC 4718   |                     | Leatherette for knob             | 2    | o                  | 4            |            |
| cFC 4721   |                     | Leatherette for focusing<br>knob | 2    | o                  | 3.4          |            |
| (aFC 4723) |                     | Light tight strip                | 3    | o*                 | 8            | mFC 4411K2 |
| aFC 4724   |                     | Light tight strip                | 1    | o                  | 5            |            |