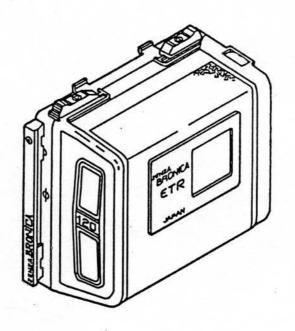


REPAIR MANUAL



BRONICA CO.,LTD.

Back Repair

M. right side cover removal	P- 1
Counter and winding base plate removal	P- 2
Lever and counter gear (B), (C) removal	P- 3
Right light tight frame and counter roller (A), (B) and back winding gear (C) removal	P- 4
M. left side cover and spool holder lock removal	P- 5
Winding will not stop or release after winding stop (overlapping frames)	P- 7
The film will not advance to the 15th frame	P- 8
The rear cover will not close The rear cover will not open	P- 9
Light leaks	P-10

Sketch
[Figure 1]
(1) (3) (2) (4) (4) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7

Explanation

M. right side cover removal

1. Remove the winding crank (1).

Screw: special panhead M1.7x3.5-B (95023562) (left-hand threads) x 1 screw

 Peel off the leatherette (2) (with M. right side cover plate (3)) and

right side cover plate (3)) and remove the right side cover (4).

Screws: self-tapping panhead type 1 M1.7x3.5-B (95873357) x 4 screws

--- [Figure 1].

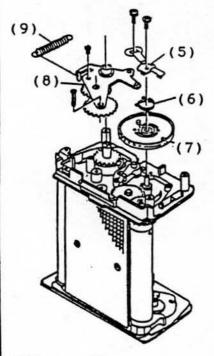
* Reassembly notes

o Check the counter and F window for dirt before reassembling.

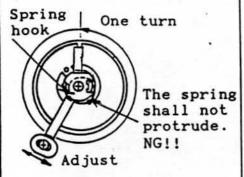
o When positioning the M. right side cover, be careful concerning the end of the F. release lever indicated with an asterisk (*). Sketch

Explanation

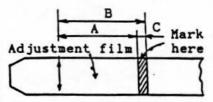
[Figure 2]



[Figure 3]



[Figure 4]



Start mark S position mark

For 120 A216mm B232mm For 220 A226mm B242mm

o Ok if within range C.



Counter and winding base plate removal

- 1. Remove the counter stopper (5).
 - Screws: special panhead M1.7x2.5-B (0116230) x 2 screws
- Remove counter gear SP (6) and the 120 or 220 dividing plate set (7).
- Remove the spring (9) and then remove the winding base plate (8).

Screws: self-tapping panhead type 3
M2.0x8.0-B (95885807) x 2
screws
self-tapping type 1 M2.0x
4.0-B (95875407) x 1 screw
--- [Figure 2]

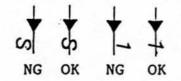
- * Reassembly notes
- o Reassembling the counter stopper (5)
- a. Hook the spring (6) at (5) and lightly tighten the two special panhead screws.
- b. Rotate (7) one turn counterclockwise and lightly tighten the special panhead screw. (Be careful when installing the spring; otherwise, the counter will not return.)

 --- [Figure 3]
- c. Load the back with film, mount the back on the camera and adjust the start position with (5).
- d. Tighten the special panhead screw and lock with Plio-Bond.

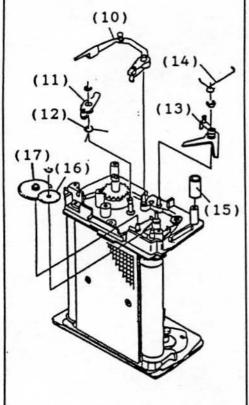
Start position adjustment

- Load the back with film and mount it on a camera with no lens.
- 2) Advance the film to the first frame.

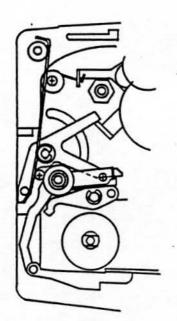
[Figure 5]



[Figure 6]



[Figure 7]



- Align the counter mark ▼ with the center of the numeral "1" and lock with Plio-Bond.
- 4) Press the release button and observe the film S mark from the front of the [Figure 4] body. (When the mark is not in the correct position, adjust by shifting the [Figure 3] counter slot.)
- 5) The character "S" shall be at the counter mark ▼ when the rear cover is opened and the counter resets. Also check if teh index mark is aligned [Figure 5] from frame 1 to 15.

Lever and counter gear (B). (C) removal

- 1. Remove the F. release lever (10).
- 2. Remove the winding stopper claw (11).

E-ring: E-20 (95501154)

Remove the winding stopper claw spring (12).

3. Remove the counter release lever (13).

E-ring: E-17 (95501744)

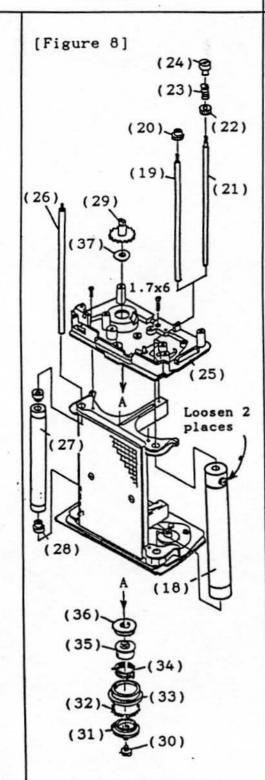
Remove the counter release lever SP (14).

Remove the collar (15).

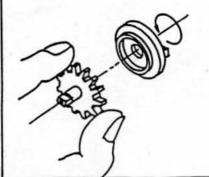
4. Remove counter gears (B) (16) and (C) (17).

E-ring: E-10 (95502124) -- [Figure 6]

- * Reassembly notes
- o When reassembling by reversing the above procedure, be careful concerning the lever positions. --- [Figure 7]



[Figure 9]



Right light tight frame and counter roller (A). (B) and back winding gear (C) removal

 Loosen the counter roller A (18) screws. two panhead type 1 M1.7x3.5-B (95813357)

For 120 film: when the counter roller A axle (19) is removed, the counter gear F (20) (left-hand threads) can be removed.

For 220 film: when the counter roller axle (21) is removed, the SP retainer nut (24) (left-hand threads), counter roller SP (23), counter gear A (22) and counter roller A (18) can be removed.

- When the right light tight frame (25) is removed, the following parts can be removed:
 - o Screws: self-tapping panhead type 1
 M1.7x4.0-B (95873407) x 3
 screws
 self-tapping panhead type 1
 M1.7x6.0-B (95873607) x 1
 screw
 - o Counter roller B axle (26)
 - o Counter roller B (27)
 - o Collar (28) x 2
- 3. Remove the back winding gear (C) (29) (left-hand threads).

 Remove the screw in the spool shaft upper (30) (left-hand threads) and remove the spool claw (31) and 24 Sø 1.6mm diameter steel balls (32).

 Remove the winding spool axle holder (33), spring (34), spool clutch axle (35), winding stopper gear (36) and spool claw holder (37).

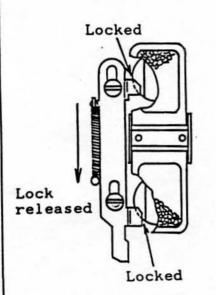
 --- [Figure 8]
 - Reassembly notes
 - o Reassembly only after making sure that the roller axle is not warped.
 - o There shall be no loose screws.

Sketch

Explanation

[Figure 10] (38)1.7x4.0 x 2 (40) (42) (41)(43)(44)(39) 1.7x3.5-Ni

[Figure 11]



- o After the back winding gear (C) (29) is reinstalled, the spool claw (31) shall only rotate clockwise when pushed with the fingers.
 - --- [Figure 9]

M. left side cover and spool holder lock removal

- 1. Peel off the leatherette (38), remove the screws, spread the spool holder (39) by pressing up on the back and remove the M. left side cover (40) [120] or [220].
 - Screws: panhead type 1 M1.7x4.0-B (95813407) x 2 screws self-tapping panhead type 1 M1.7x3.5-Ni (95873355) x 1 screw self-tapping panhead type 1 M1.7x3.5-B (95873357) x 1 screw
- Remove the spring (41), remove the two guide screw B (42) and remove the two guide collar B (43) and spool holder lock (44).
 - * Reassembly notes
 - o After reassembling the spool holder lock (44) and sliding it upward, the spool holder (39) should not move upward when pushed from the back. Also, (44) shall return properly.

 --- [Figure 11]
 - o After reassemling the M. left side cover (40) [120] or [220], the spool holder (39) shall be moved only by the force of the flat spring without slipping.

Sketch [Figure 12] Counter roller A is pushed. plate operate properly? Push Yes claw bent? Yes [Figure 13] lever operate properly? Spring F. release lever

Explanation

Winding will not stop.

Will not release after winding stops (overlapping frames).

Normal: The dividing claw drops into the slit in the dividing plate and stops when the counter roller A is rotated clockwise while pushing A.

The dividing claw drops into the next slit and stops each time B

--- [Figure 12]

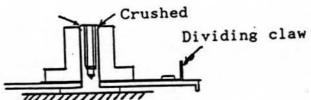
NO Disengaged spring. Does the dividing dirt, foreign matter.

Replace the Is the dividing dividing plate and F. release lever.

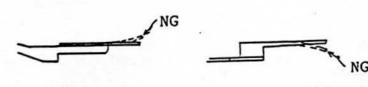
Does the F. release

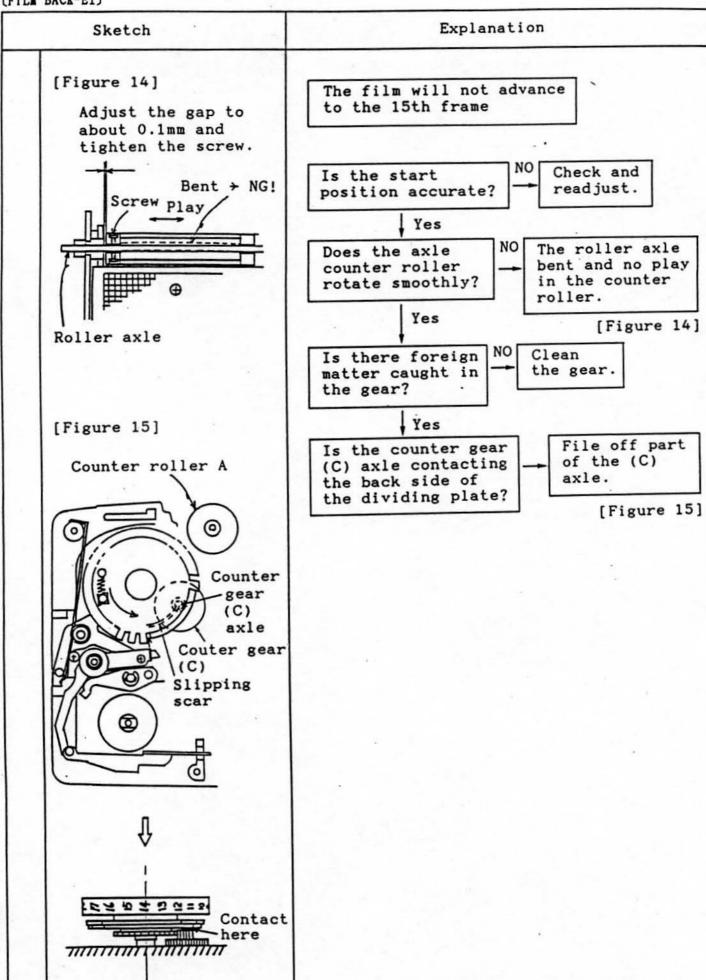
NO Repair or replace.

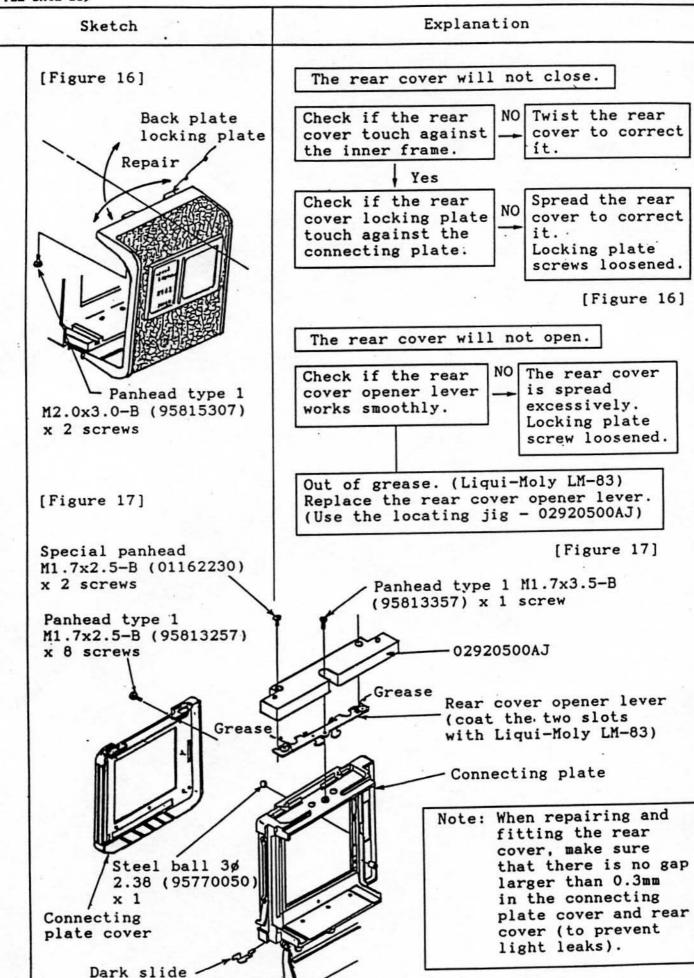
- o When the spring is removed, the F. release lever shall return smoothly each time that B is pushed while pushing A in [Figure 12]. --- [Figure 13]
- o Movement becomes bad when the axle in C is crushed.



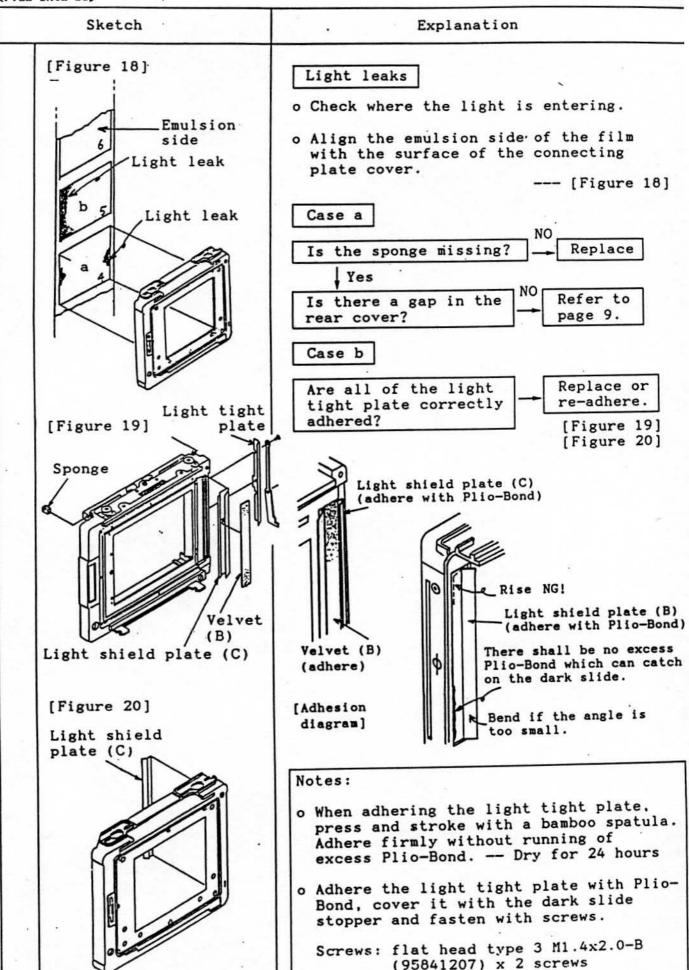
Also make sure that the end of part B of the F. release lever is not bent.





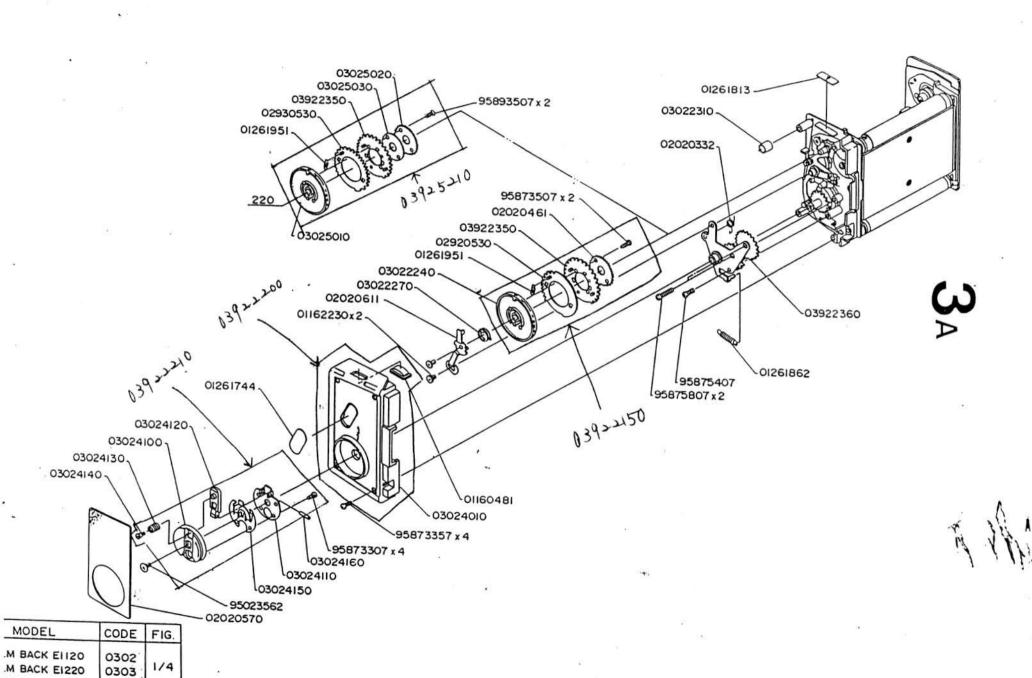


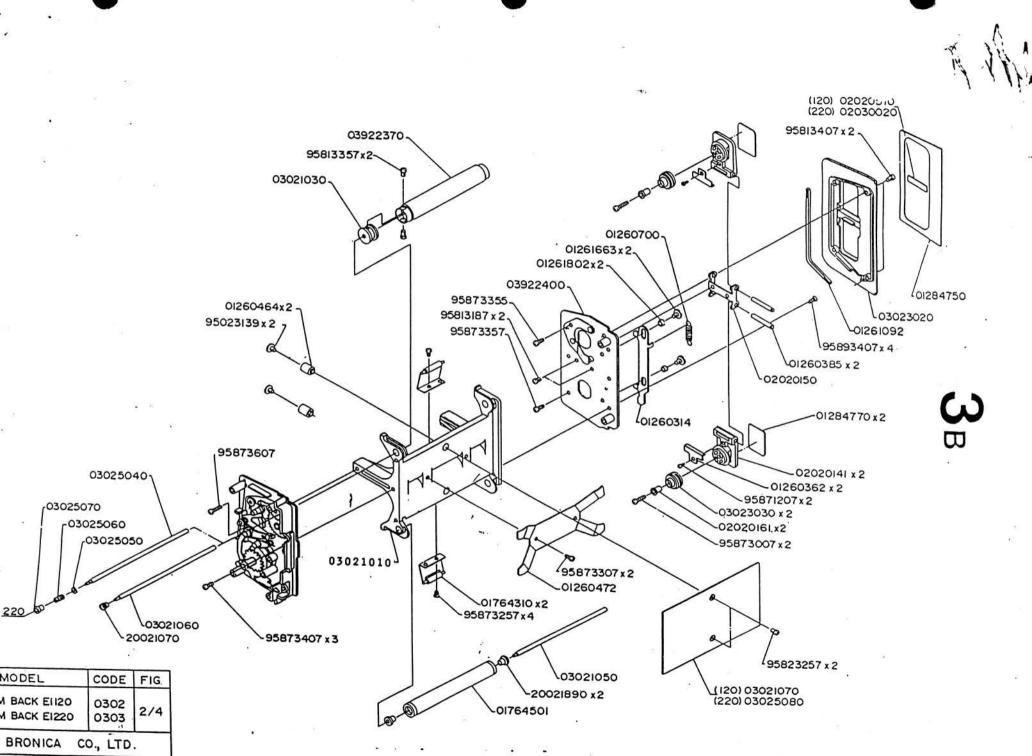
signal plate (A)

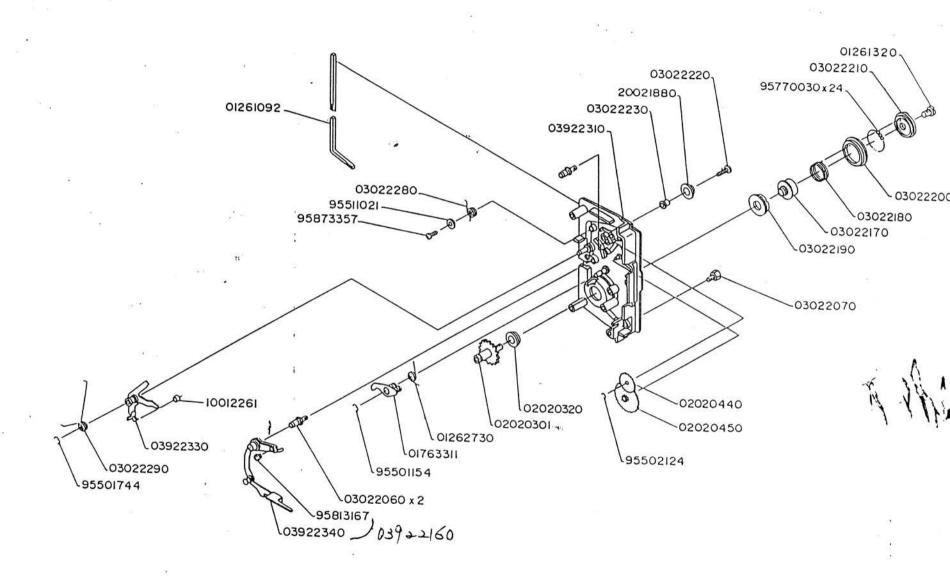


ETRSi









MODEL	CODE	FIG.
FILM BACK EI 120 FILM BACK EI 220	0302 0303	3/4

