FX-D QUARTZ

REPAIR MANUAL

DISMANTLING PROCEDURE

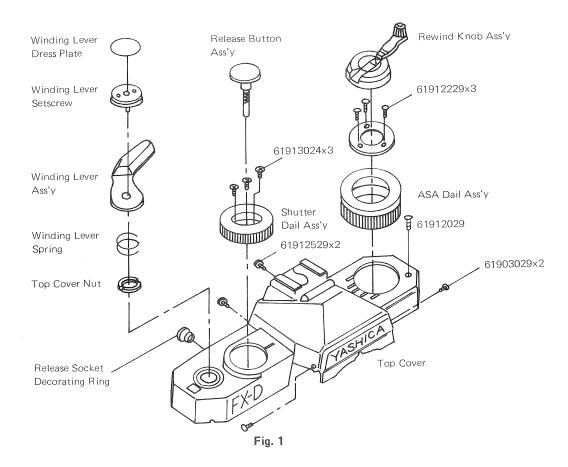
Outside Covers

1. Bottom cover removal:

(1) Remove three bottom cover setscrews (61812529).MD. light—proof plate (139680) and sprocket button (139651).

2. Top cover removal:

- (1) Remove the rewinding knob ass'y and three ASA dial ass'y setscrews which hold the ASA dial ass'y.
- (2) Remove the winding lever dress plate (152634) and the winding lever setscrew (counterclockwise), or otherwise the winding lever dress plate and winding lever setscrew can be removed together by turning it with a piece of rubber (turn it counterclockwise). Remove winding lever spring and top cover nut (322312).
- (3) Remove the release button ass'y by turning it with a piece of rubber (turn it clockwise) and three shutter dial setscrews (61913024) which hold the shutter dial ass'y.
- (4) Remove the release socket decorating ring.
- (5) Remove five top cover setscrews (61912529 \times 2, 61903029 \times 2, and 61912029). It is possible to remove the top cover in the upward direction.



3. Removing leathers:

(1) Peel off the leathers of right and left sides.

Notes: This leather is the selfstick type, it is reusable. (However, since the edge easily peels off when replaced, use additional leather adhesive if necessary.)

4. Mount cover sub ass'y removal:

(1) Remove four mount cover setscrews (63912224), the mount cover sub ass'y can be removed.

Mirror Box Ass'y Removal:

The mirror box can be removed together with the shutter base plate ass'y, ASA base plate ass'y and Amplifier ass'y,

1. Unsolder ten lead wires of flexible printed circuit.

At bottom of the body (six lead wires)

- (1) Green lead wire from the connector base.
- (2) Violet and orange lead wires from the TF switch.
- (3) Back and pink lead wires from the release magnet.
- (4) Red lead wire from the battery case.

On the pentaprism (four lead wires)

- (1) Yellow, black and brown lead wires from the shutter.
- (2) Green lead wire from the release socket.

2. Shutter base plate ass'y removal:

(1) Remove two shutter base plate ass'y setscrews (61912522) holding the shutter base plate ass'y to the body.

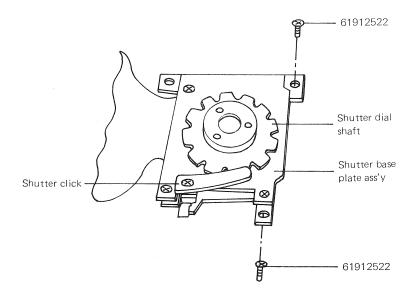
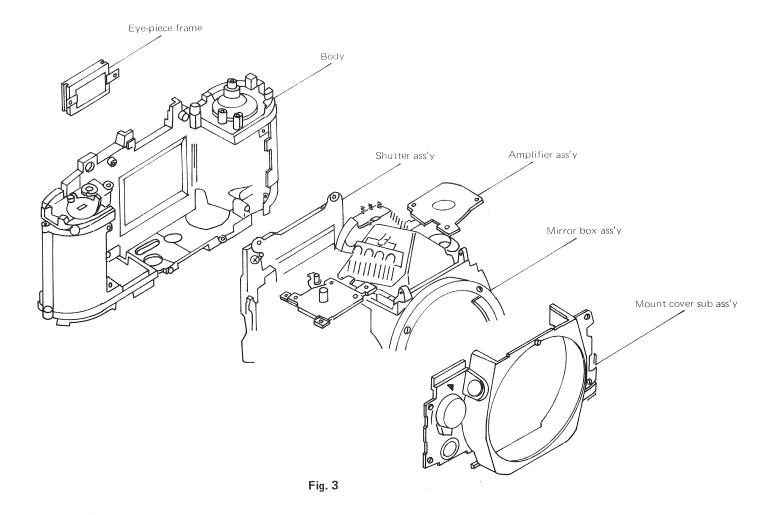


Fig. 2



3. ASA base plate ass'y removal:

- (1) Remove the rewind shaft holder nut which holds the ASA dial shaft with ASA click plate ass'y and ASA contact holder ass'y.
- (2) Remove the ASA lock spring shaft, ASA lock spring and E-ring.
- (3) Remove one GS-ring, ASA lock lever ass'y, and ASA lock lever shaft.

Note: Do not reuse the removed GS-ring. (Reusing will cause malfunction)

- (4) Remove two E-rings (E-15) and ASA reverse lever.
- (5) Remove one ASA base setscrew (61912522) which holds ASA base ass'y.

4.

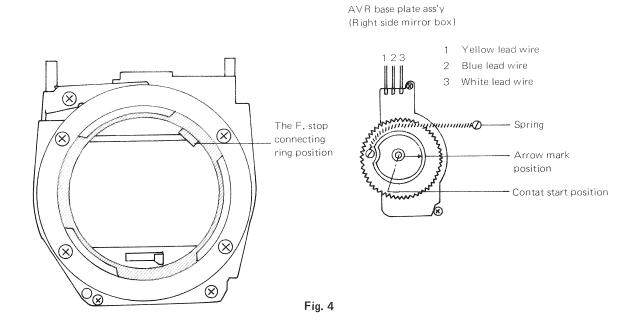
- (1) Remove two setscrews at bottom of body which hold the Amplifier ass'y to the body.
- (2) Remove the eyepiece frame.

5. Mirror box ass'y removal:

- (1) Remove the two mirror box setscrews (61927024x2) at the back and two mirror box setscrews (132143x2) at the front, Carefully pull out the mirror box ass'y with Amplifier from the body.
 - * When mirror box is put aside, make sure that the mount surface is placed downward.
 - * The mirror box consists of six basic components: a pentagonal framework, ML base plate (right), MC base plate (left), AVR base plate (right), QR base plate (lower surface), and the mirror box main body.
 - * Be careful to keep clean the release magnet of QR base plate.

1. AVR (Aperture Variable Resistor) base plate at contact position:

When mounting the AVR base plate, set the F. stop connecting ring to the stopper on-the open side, and AVR gear at the position where its arrow mark (→) is directly in the front. At this position, the contact below AVR gear perfectly gets on the resistor plate and is in the start position.



2. Mirror position adjustment and finder focus adjustment:

- (1) Horizontal adjustment of mirror.
- (2) 45° adjustment of mirror.
- (3) Upward and downward location of mirror and fine a adjustment of finder focus. The rough adjustment (0.1 mm or more) of finder focus is done by exchanging the washer under the pentagonal frame work. (Since visual field rate is 95%, the rough adjustment of finder focus generates parallax due to ML base plate.)

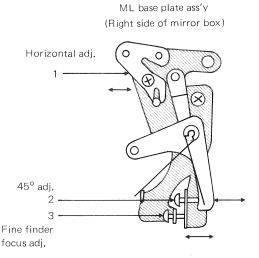
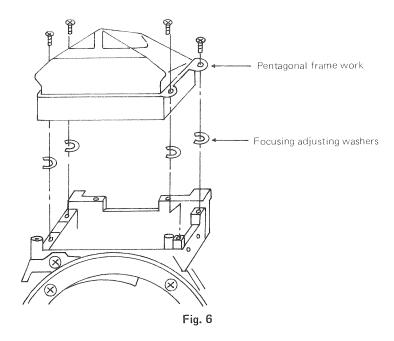


Fig. 5

* There are seven types of adjusting washers for focussing. 0.05, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7 mm.



Shutter Ass'y Removal:

(Mirror box ass'y must be removed)

(1) Remove the three shutter setscrews (61824522×2 and 61924022×1). Two setscrews are located at the front upper part and one is located under the body light-proof moquette. Then, pull off the shutter upward.

Counter Base Plate Ass'y Removal:

- (1) Remove counter reverse lever spring (152870).
- (2) Remove three setscrews (61923024x2 and 147816x1).

 Then remove the counter base plate be careful not to damage counter G-1.
- (3) Remove counter G-1.
 - * When the head of counter G-1 is damaged, it skips two or three frames.

≪ Remarks for reassembling ≫

- * Turn the notched section of counter G-1 in the opposite direction of the winding shaft.
- * The counter position is the stop position of the winding shaft ass'y. Therefore, when assembling the counter base plate ass'y, it is necessary to pay attention to the above.

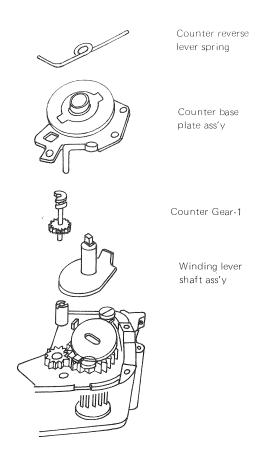


Fig. 7

Winding Base Plate Ass'y Removal:

(at bottom of the body)

- (1) Remove the MD cap ring setscrew (the screw is counterclockwise) in the MD cap ring, which holds the MD cap ring.
- (2) Remove the SM. set lever fixer setscrew (61913024) and two connector base setscrews (61913024 x 2), remove the SM. set lever fixer with the connector base by which the SM. set lever ass'y can be removed.
- (3) Remove the set cam plate ass'y.
 - * The MD cap ring and the set cam plate ass'y are pressed in against the winding shaft.

 Carefully and gently twisting the MD cap ring and set cam plate ass'y so the hole should not be made larger, separate them from the shaft.
 - * The SM. set lever, MD cap ring and the set cam plate ass'y are individual parts for composition, the SM. set lever is connected to the hole and joggle of the cam set plate ass'y.
- (4) Remove anti-rewind collar setscrew (61814024), anti-rewind collar and anti-rewind claw.
- (5) Remove the three winding holder setscrews (63913024x3) the winding holder with winding spring.

(at upper part of the body)

- (6) Remove two winding base plate ass'y setscrews (61813524x2) and shutter base plate post (162610), the winding base plate ass'y can be removed.
 - * To replace the sprocket and spool remove the winding base plate ass'y in the same way.

≪ Winding Base Plate Mounting ≫

(at upper part of the body)

(1) Mount the winding base plate and the winding shaft.

(2) Agree the convex part pulled by the winding lever shaft ass'y with the notched part made in the counter reverse lever at the back side of the body. See Fig. 7.

Thus, purely the shaft classement of the winding ratched class engages with the groove of the

Then, push the shaft downward so that the winding ratched claw engages with the groove of the winding A-gear.

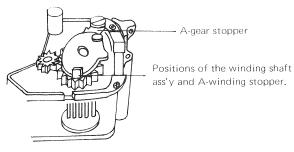
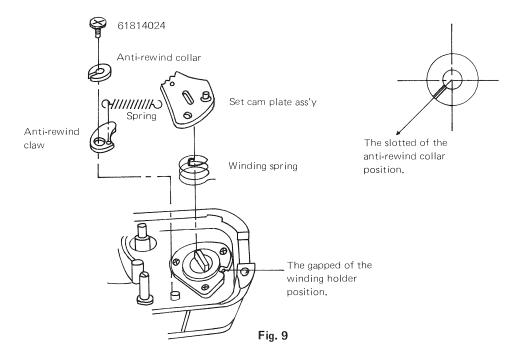


Fig. 8

(at bottom of the body)

- (3) Attach the winding holder.
- (4) Insert the winding spring.
 - Put in the set cam plate ass'y and connect the winding spring.
- (5) Mount the anti-rewind claw and the anti-rewind claw collar at the position shown in the Fig. 9. and connect the anti-rewind claw spring.



(at upper part of the body)

- (6) Turn the convex part at upper side of winding shaft ass'y one-half (1½ time) to the counterclockwise to provide the spring with a restoring force, and set the winding shaft ass'y at the position just opposite to the notched part.
- (7) Mount the winding lever shaft ass'y at the correct position referring to the counter base plate ass'y, and install the counter base plate ass'y so that the winding head can be limited by the counter base plate ass'y. See Fig. 7.

(at bottom of the body)

- (8) Mount the SM. set lever.
 Put it in the joggle of the set cam plate ass'y.
- (9) Mount the MD. cap ring and set screw (turn it clockwise).
- (10) Mount the winding obstruction lever ass'y, washer, snap ring and connect winding obstruction lever spring.

Anti-rewind claw adjustment,

After A-gear stopper is engaged (upper part of the body) the anti-rewind claw (bottom of the body) should be released.

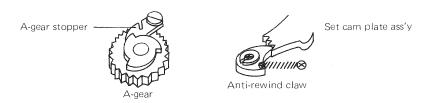


Fig. 10

• TF-switch adjustment.

The shutter must not actuate at the lever return after winding when the winding obstruction lever is located at position B or C of the MD, cap ring. Be sure to actuate the shutter at position $\frac{A}{2}$ of A.

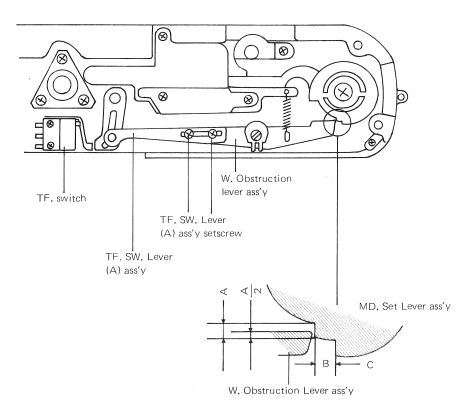
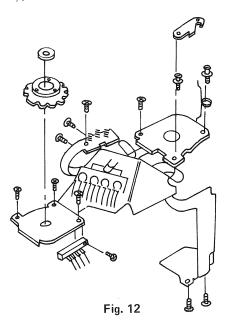


Fig. 11

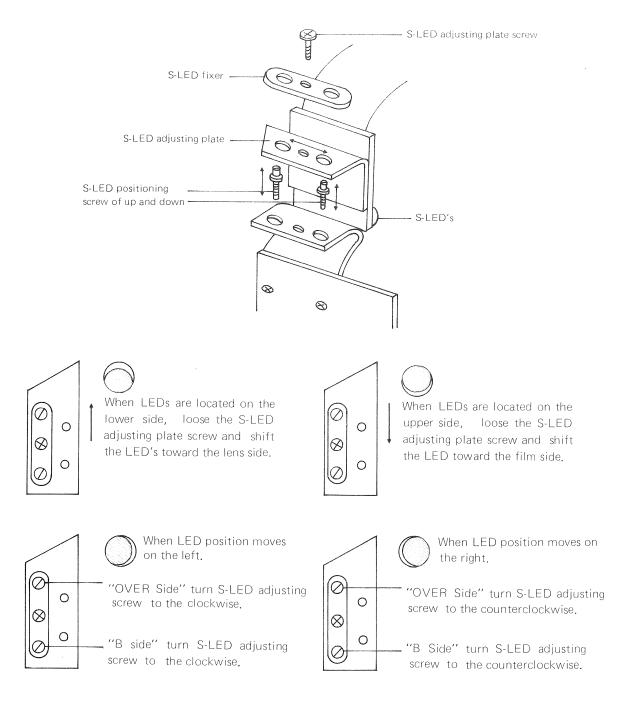
Amplifier Replacement Procedure

- Replace Amplifier after removing the top cover, bottom cover, and mount cover sub ass'y.
- (1) Unsolder 13 lead wires.
 - (at bottom of the body)
 - O Green lead wire from the connector base.
 - O Violet and orange lead wires from the TF, switch,
 - O Black and pink lead wires from the release magnet,
 - Red lead wire from the battery case.
 - (at upper of the body)
 - O Yellow, black and brown lead wires from the shutter.
 - O Yellow, blue and white lead wires from the AVR base plate.
 - Green lead wire from release socket.
- (2) Removal of Amplifier setscrews.
 - Remove the shutter dial shaft stopper, its shutter dial shaft ass'y and three shutter base setscrews (61912522x3).
 - Remove one combination connector setscrew (63903024).
 - Remove one S-LED adjusting plate setscrew (61914522) and adjusting plate.
 - ASA base plate removal.
 - Remove the rewind shaft holder nut, its ASA dial shaft, its look spring shaft, its ASA lock lever shaft and one chrome setscrew.
 - Remove three setscrews (61912522x3) to attach shoe terminal.
 - Remove two lower part of Amplifier setscrews.
- (3) Remove the Amplifier ass'y.

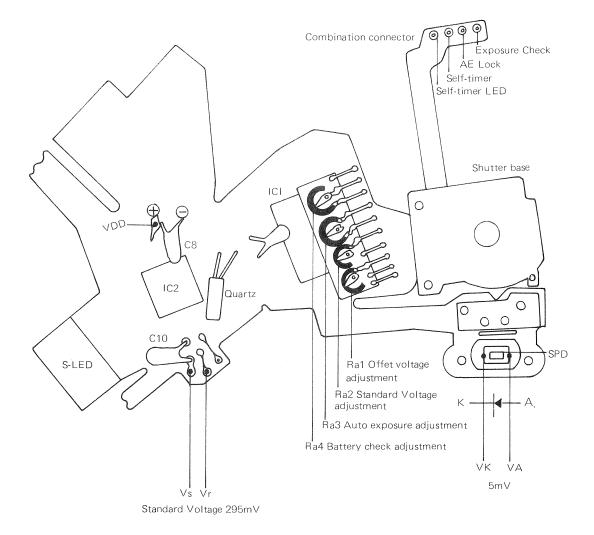


S-LED Position Adjustment

* The position of LED shall be adjusted so that all LED's from "B" to "OVER" and " " can normally be seen, when the eye in at the center of eyepiece when replacing amplifier ass'y, be sure to make this adjustment.



Note: The three screws must be locked with glue after adjustment.



Voltage Check and Adjustment

- * The adjustment should be performed as follows.
- (1) ASA 100 and without lens.
- (2) 2.8V from the regulated D.C power supply.
- (3) Press the exposure check button before checking the respective voltage (it workes for 10 sec).
- (4) Use the digital multimeter.

	Item	Method of Adjustment
Ra1	OFF-SET voltage adjustment	Connect the (+) lead of multimeter to VK and (-) lead of multimeter to VA. Voltage between VA and VK should be 5mV±5mV. * Measurement should be made by exposing to a light of more than LV12.
Ra2	Standard voltage adjustment	Connect the (+) lead of multimeter to Vr and (—) lead of multimeter to Vs. Voltage between Vr and Vs should be 295 mV ± 5 mV.
ı	Auto-Exposure adjustment anging the position of ontact holder)	Setting of the test equipment; k = 1.3, ASA100. setting of the camera with standard lens; ASA $80 \cdot F5.6$, for each luminance, the adjustment should be within ± 0.7 EV. (See figure)
Ra4	Battery check circuit adjustment	Set shutter dial at auto. The adjustment should be performed while changing the power source voltage. Shutter — LED is lit at 2.65V and blinking (1Hz) at 2.55V and lit off at 1.5V.

[STANDARD]

Auto-exposure

Adjustment of the auto-exposure should be performed by installing the standard lens to camera and setting the aperture at 5.6 with AUTO and ASA80.

When making measurement, the E.E. camera tester should be used at ASA100, K=1.3.

LV	Aperture	LED display	EV tolerance
12	F5.6	1/125	±0.7 EV
15	F5.6	1/1000	±0.8 EV
11	F5.6	1/60	±0.7 EV
8	F5.6	1/8	±0.7 EV
4	F5.6	2 sec	±0.7 EV

^{*} LED indication is made at the standard value only, or within simultaneous lighting of 2 points of neighboring LED's.

Manual shutter speed

S-Dial Setting	Max	Standard	Min
X	11.52	10.75	10.03
1	1,035	1,000	966
2	517.6	500	483.0
4	258.8	250	241.5
8	134.0	125	116.5
15	67.00	62.5	58.31
30	33.55	31.3	29.20
60	16.75	15.63	14.58
125	8.37	7.81	7.29
250	4.49	3.91	3.40
500	2.40	1.95	1.58
1000	1.34	0.98	0.72

ms

Shutter curtain speed

The shutter curtain speed should be within 6.0 ms.

Synchro contact

- Synchronizer delay time
 3 to 0.9 ms
 Set shutter dial at "X" position and check with shutter tester.
- Synchro contact efficiency.
 65% or more (TIME INT. 1 ms)
- 3. Synchro insulation resistance. $30M\Omega$ or more (DC500V)

Voltage Dependence

2.75V to 3.2V DC

Shutter LED (S-LED) Display in the Viewfinder

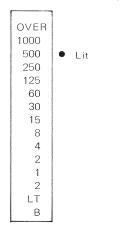
S-LED blinks and makes audible tone (beep tone) at AUTO, Manual and X setting, when "Over" exposed;

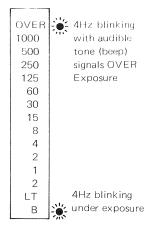


LED display in the viewfinder at AUTO position

Normal AE Exposure display

OVER and Under Exposure display.

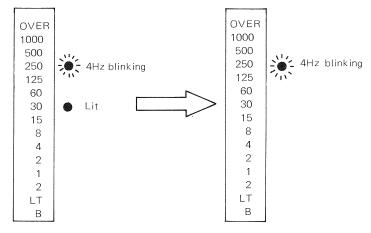




Exposure will be correctas long as one of the LEDs between LT and 1/1000 sec, is lit,

- * When selftimer is actuating the selftimer LED blinks and the S-LED in the view finder it goes off.
- * When the exposure-check switch is depressed the LEDs will remain on for 10 seconds and turn off automatically. However, if the shutter is closed while the LEDs are lit, LEDs will go off after the exposure has been completed.

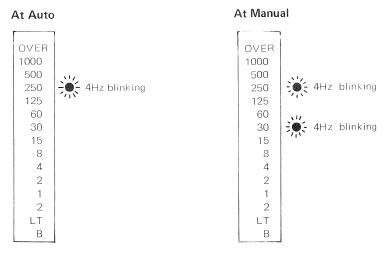
O LED display in the viewfinder at Manual position



Showing actual and correct shutter speeds.

Adjust for correct shutter speed.

LED display in the viewfinder at AE Lock position



Lock in shutter speeds.

Aperture can be varied: continuous operation possible.

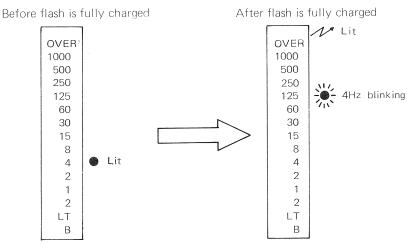
* Lights up for 10 seconds after AE Lock lever is released.

○ (/ Flash mark Indication

(With CS201 AUTO, TLA20 and TLA30 flashunits.)

When flash is fully charged, (\mathcal{N}) mark is lit even unless the exposure check button is depressed.

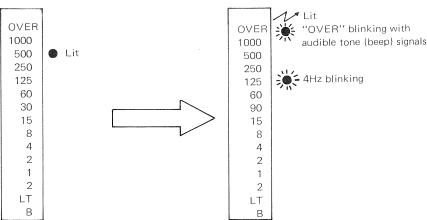
At AUTO



O When shutter LED lit in between 1/250 and OVER.

Before flash is fully charged

After flash is fully charged



At Manual

- O When shutter speed is set at $1/125 \sim 1$, after flash is fully charged at a set shutter speed LED blinks and (\nearrow) lit.
- O When shutter dial is set at $1/250 \sim 1/1000$, after flash is fully charged, (\nearrow) mark lit and 1/125 LED will lit when exposure check button is depressed. The over photometer value is not displayed.

At X

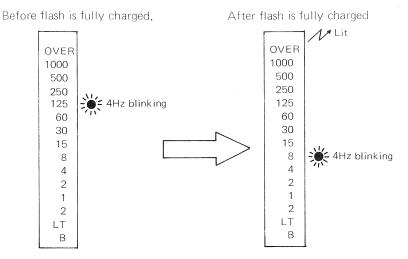
• After flash is fully charged, 1/125 LED blinks and () lit, when exposure check button is depressed.

At B

O After flash is fully charged, B LED blinks and () lit, when exposure check button is depressed.

At AUTO and AE Lock

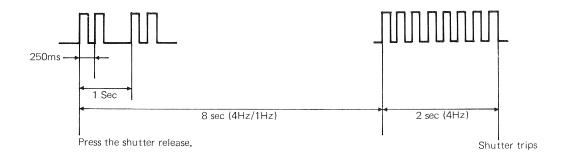
AE Lock is performed when shutter speed in between $1/125 \sim B$.

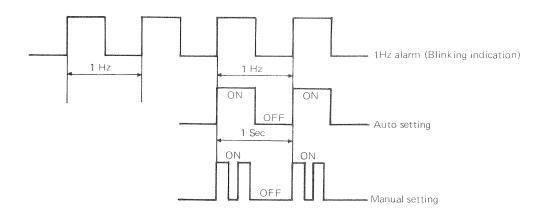


O AE Lock is performed when shutter speed in between $1/250 \sim 1/1000$, after flash is fully charged OVER LED blinks with audible tone (beep) signals and (//) lit.

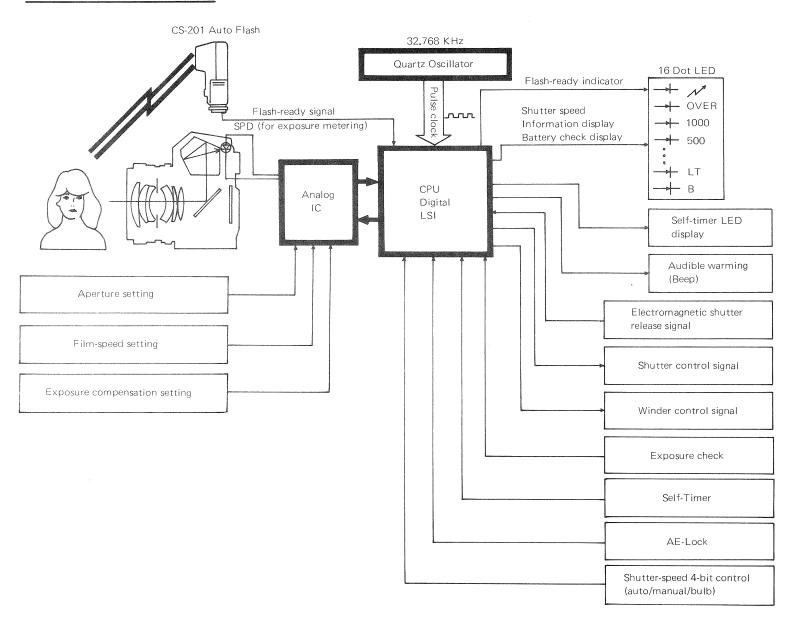
Selftimer LED Indicator

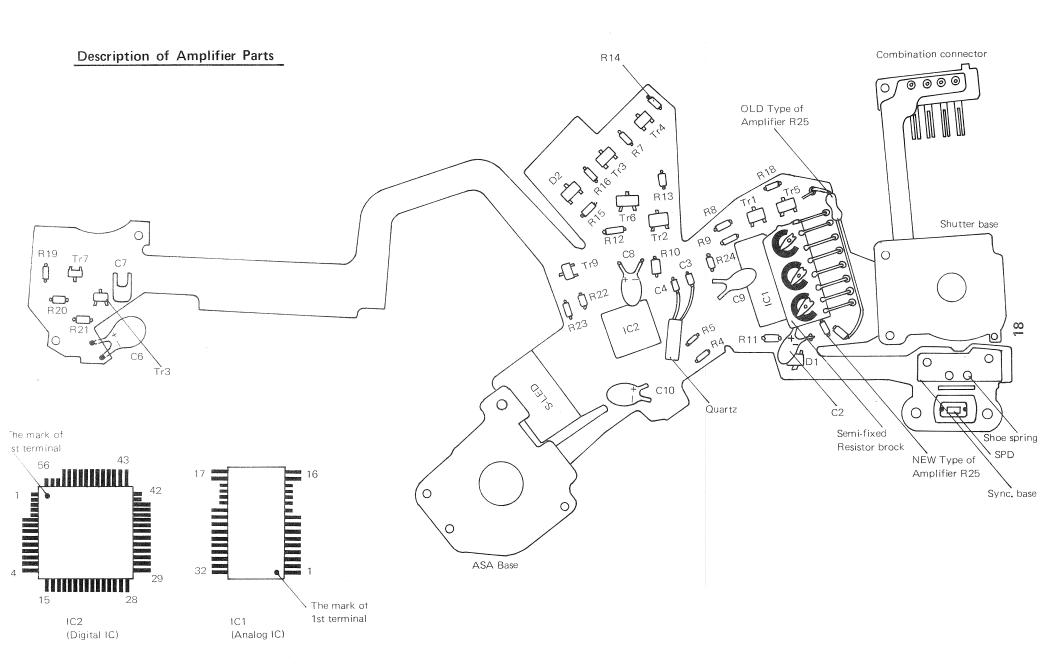
Quartz-controlled 10-sec. delayed exposure; LED blinking with audible tone (beep) signal at 4Hz for first 8 sec. . . . , then at 4Hz for last two sec.



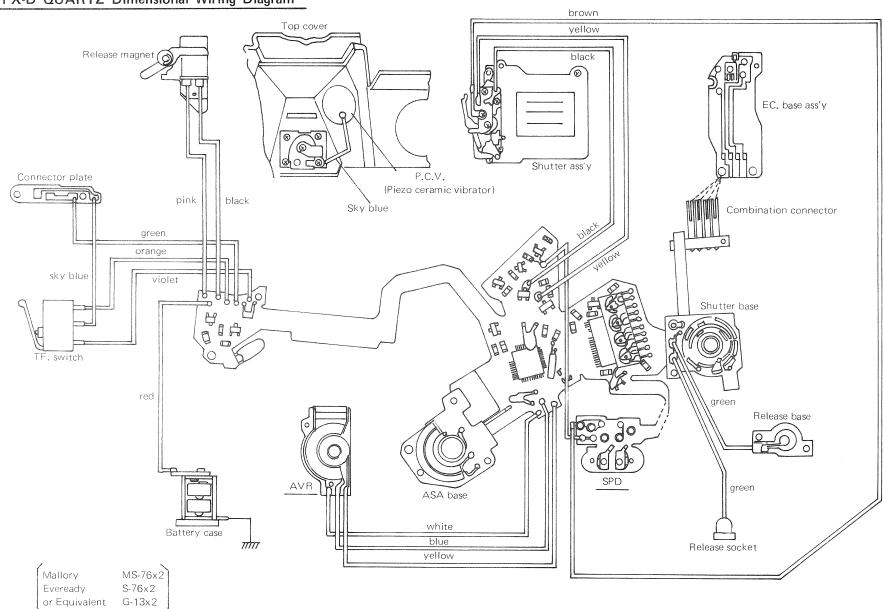


FX-D Quartz circuit Diagram

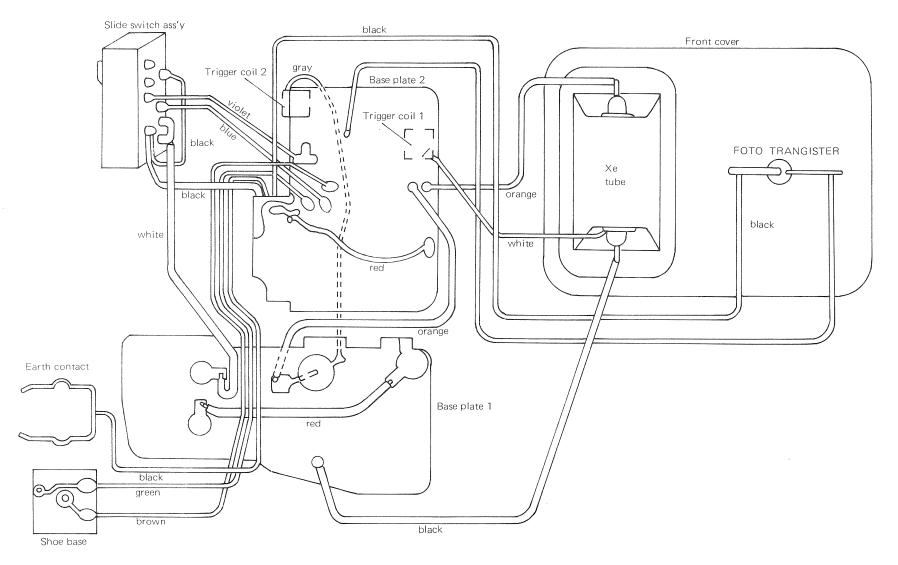




FX-D QUARTZ Dimensional Wiring Diagram



CS-201 AUTO Flash Dimensional Wiring Diagram



* The CS-201 is an auto flash unit specially designed for use on the FX-D Quartz providing a guide number of 20.

MALFUNCTION AND CAUSES

Note:

S-LED = Shutter speed LED. F.P.C. = Flexible Printed Circuit.

Shutter does not operate.

1-1)Shutter does not operate, and S-LED does not light.

- (1) Shutter Base Plate, (Bad contact of release switch).
- (2) Green lead wire of release circuit.
- (3) Bad contact between shutter board and F.P.C.
- (4) R12, R13.
- (5) Battery case bad contact. (loose screws, bad revetting of lug plate).
- (6) Red, lead wire from battery case.
- (7) Loose screw on F.P.C.
- (8) TR-2.
- (9) R10, R24.
- (10) C-3, C-4, C-9
- (11) Quartz.
- (12) F.P.C.
- (13) Amplifier.

1-2)Shutter does not operate, but shutter speed LEDs light.

Check:

- (1) TF-switch.
- (2) Anti-winding lever.
- (3) Trigger switch, (should be ON when shutter is
- (4) Loose ground screw on the shutter circuit board.
- (5) Yellow lead wire between shutter and F.P.C.
- (6) F.P.C.
- (7) TR-7, TR-8.
- (8) R19, R20, R21.
- (9) C-6.
- (10) Release magnet.
- (11) QR base plate.

1-3) Shutter does not work with winder.

Check:

- (1) TF-switch.
- (2) Bad contact between connector base and winder.

Auto exposure is incorrect. 2)

2-1) Shutter remains open ("B" LED lights), or extremely under exposed. (over LED remains light.)

- Check: (1) Incorrect standard voltage.
 - (adj. Ra2 to 295mv±5mv.)
 - (2) Incorrect off-set voltage. (adj. Ra1 to 5mv±5mv.)
 - (3) Variable resistors. (Ra1—Ra4)
 - (4) SPD.
 - (5) Starting position of AVR brush contact.
 - (6) AVR.
 - (7) ASA resistor.
 - (8) F.P.C.
 - (9) Amplifier.

2–2) "B" LED indication appears at LV15.			
	Check:	(1)	Incorrect Off-Set voltage against high light. (re-
		(0)	adjust).
		(2)	F.P.C.
		(3)	Amplifier.
3) S	hutter s	peed	LED does not light properly at manual mode.
3-1)	Check:	(1)	Shutter dial contact.
		(2)	Shutter base plate.
		(3)	Dirty shutter base plate.
		(4) (5)	F.P.C. Amplifier,
THE PROPERTY AND PERSONS ASSESSED.	NOTIFICATION AND PROPERTY OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED	AND THE PROPERTY OF THE PARTY OF	ion of shutter speed LEDs. (More than three shutter speed LEDs come busly, or No LED comes on).
O			
4-1)	Incase o	of "Ov	ver"-"B" indication.
	Check:	(1)	Shutter speed LED.
		(2)	F.P.C.
		(3)	Amplifier.
4-2)	In case	of 🔨	/ (flash) mode.
	Check:	(1)	Shutter speed LED.
		(2)	Bad contact of accessory shoe.
		(3)	TR-9, R22, R23.
		(4)	F.P.C.
		(5)	Amplifier.
5) N	lo beep	at all	. (self-timer or over-exposed situation.)
·-		principana (sepektalisilisika	
5-1)	Beep at	: "OV	ER" indication, but not working when self-timer is used.
	Check:		TR-3.
	Oncor.	(2)	R14, R15.
		(3)	F.P.C.
5-2)	No bee	p at "	'OVER'' indication, but it is working when self-timer is used.
	Check:	(1)	D2.
		(2)	F.P.C.
5 O)			
5–3)			very small beep, when "OVER" LED indication or self-timer is used, but self-timer indication itself are normal.
	Check:	(1)	TR-4.
		(2)	R16, R17.
		(3)	Shoe spring of amplifier.
		(4)	P.C.V. (Piezo Ceramic Vibrator.)
		(5)	F.P.C.
5-4)	Tone of	f P.C.V	V. is not normal.
	Check:	(1)	F.P.C.
		(2)	Amplifier.

6) Defective stand-by current. (Less than 10 micro amp.)

6-1)Too much stand by current.

- Check: (1) AVR base plate is short curcuited to the body.
 - (2)ASA base plate is short circuited to the body.
 - (3) Uninsulated parts or electrical components touch the Top cover.
 - (4) TR1-9, C-6, C-8, C-10, R19.
 - (5) F.P.C.
 - (6) Amplifier.

6-2)When stand-by current drains about 4-7 mA.

- Check: (1) Release circuit is grounded to the body. (release switch, release socket, connector
 - R12, C-7. (2)

7) Incorrect shutter speed.

- 7-1)Check: (1)
 - TR-6.
 - Yellow lead wire from trigger switch. (2)
 - (3) Black lead wire from shutter magnet.
 - (4) F.P.C.
 - (5) Amplifier.

Defective Self-timer.

- 8-1)
- Check: (1) Mount cover ass'y. (Self-timer switch, Self-timer LED).
 - Combination connector contact.
 - (3)TR-1, TR-5.
 - (4) R8, R9, R18.

Defective "AE". (AE-lock).

- 9-1)
 - **Check:** (1) Mount cover Ass'y. (AE switch etc.)
 - (2)Combination connector contact.
 - (3) F.P.C.
 - (4) Amplifier.

10) Defective Flash LED indicator. (Flash mode).

- **10-1)** Check: (1)
 - D-1, R10.
 - (2)Same as 4-2).

11) Battery warning indication. (Battery check)

At "AUTO" 1 Hz blinking.

At "MANUAL" 1 Hz blinking. (When less than 2.45

volts.)

- Check: (1)
 - Ra4.
 - (2)R6, R7.
 - (3) F.P.C.
 - (4) Amplifier.

In extremely darkness, "B" LED lights, then in a few seconds, "B" LED moves up 12) then "OVER" LED lights.

Check: (1) R25, (if R25 is omitted, add 300K)-location — See attached diagram.

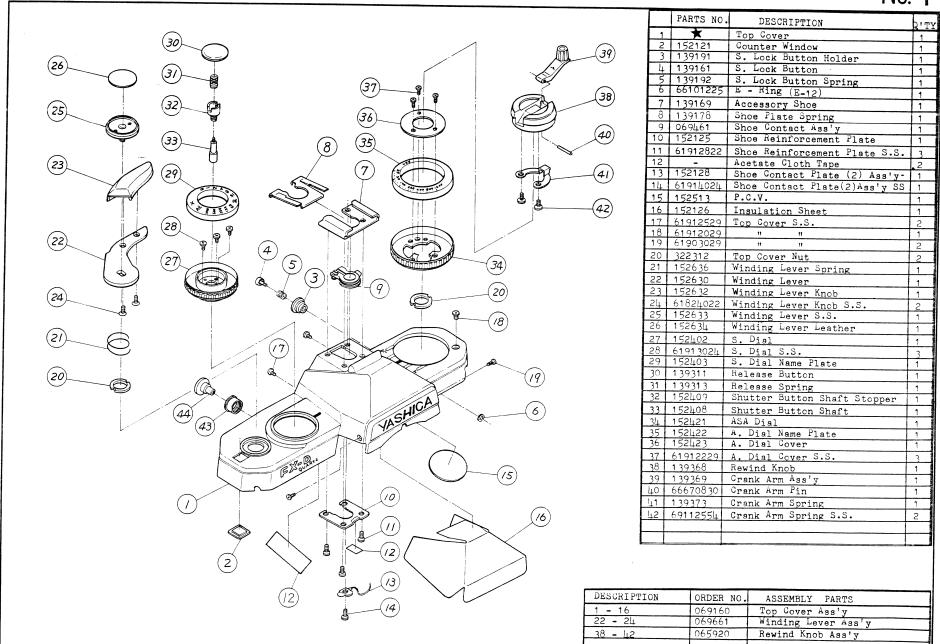
YASHICA

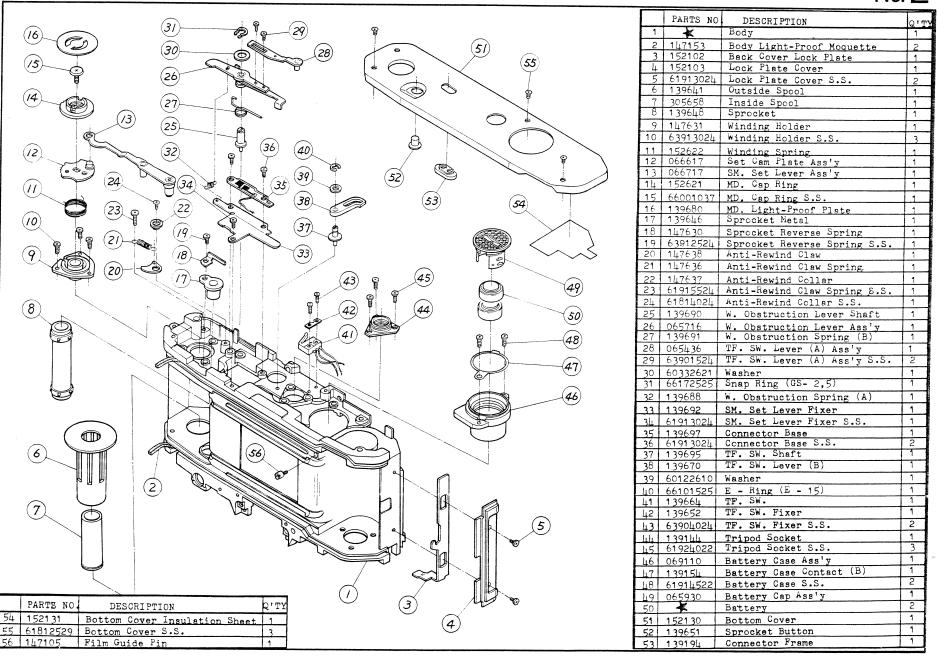


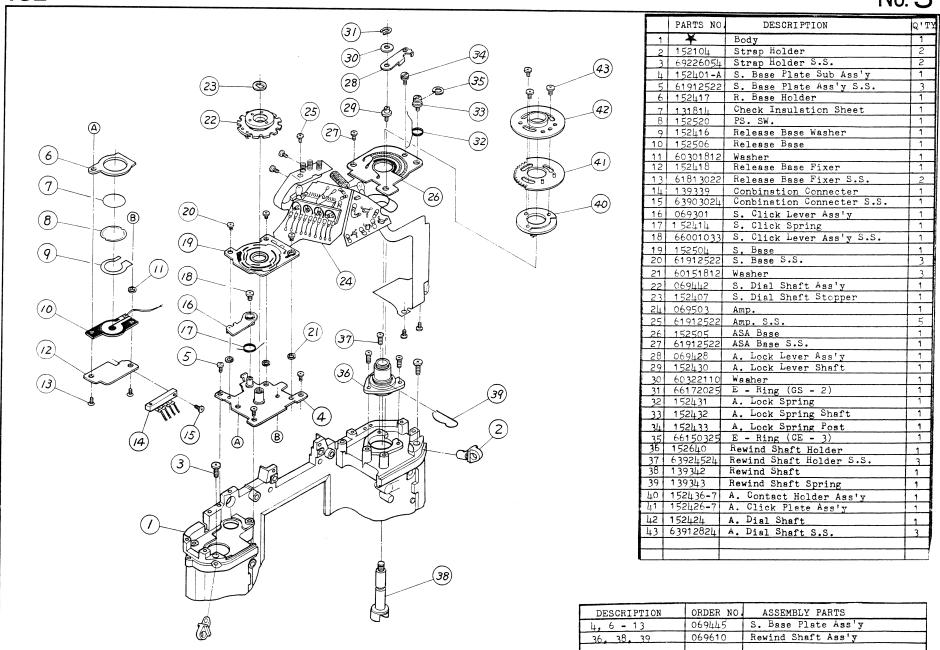
ASSEMBLING CHART

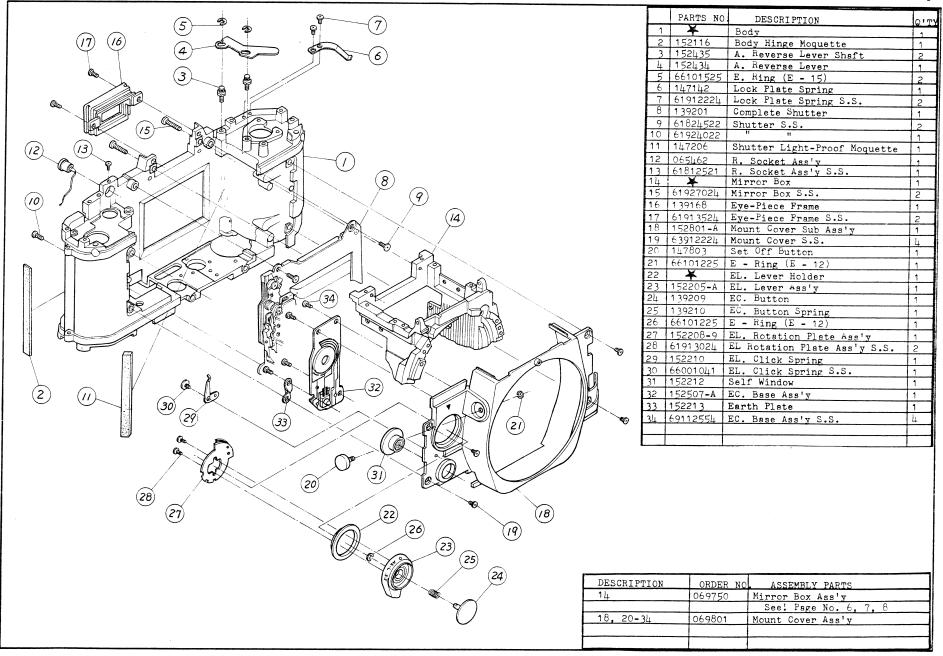


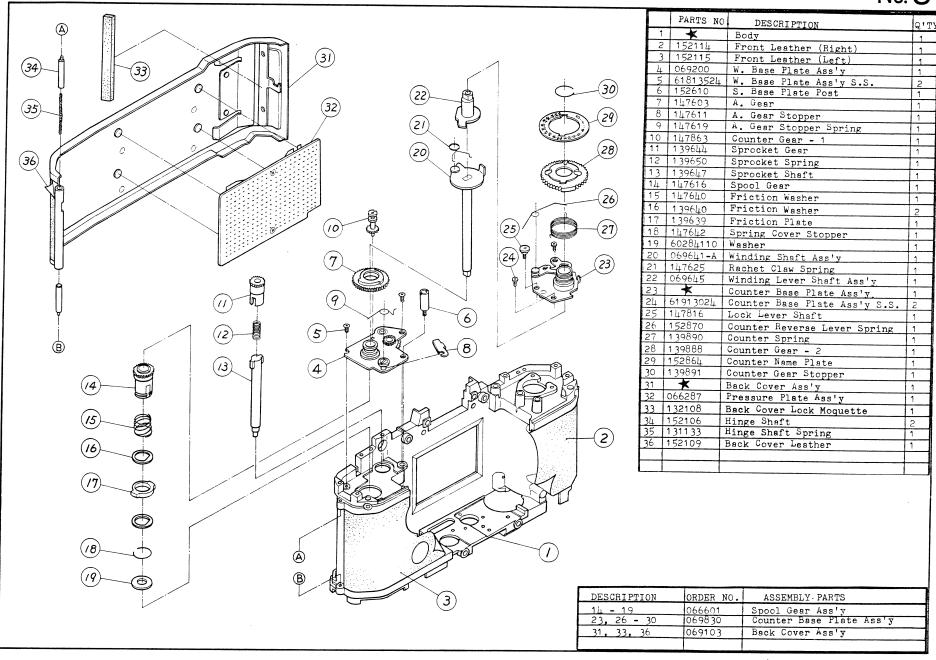
YASHICA CO., LTD.

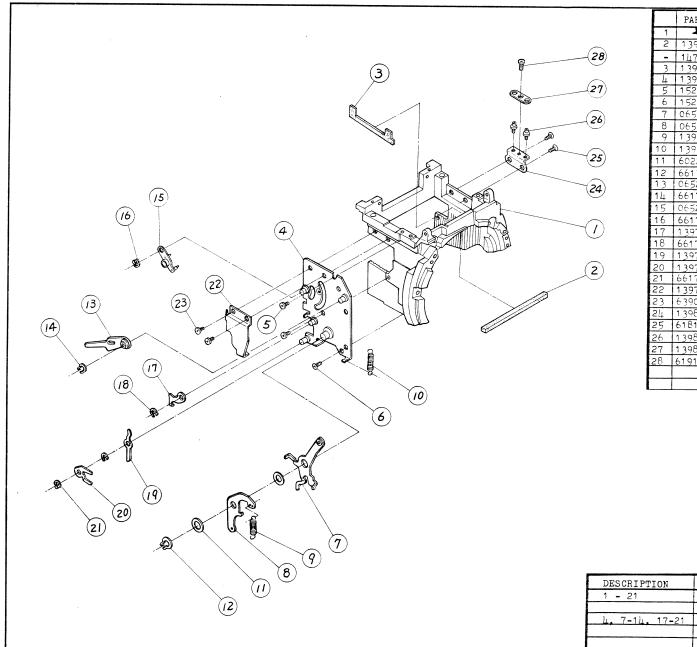






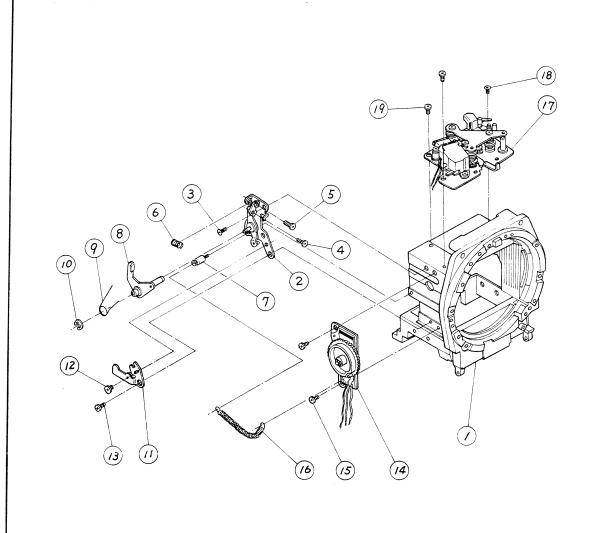






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		PARTS NO	DESCRIPTION	Q'TY
1	1	*	Mirror Box	1
ı	2	1 3 9 7 8 7	Mirror Cushion (Select)	1
ı	-	147787	" ") (301800)	-
ı	3	1 39859	M. Moquette	1
	4	139753-A	MC. Base Plate Sub Ass'y	1
Į	5	152782	MC. Base Plate S.S.	2
	6	152781	" "	1
NAME OF	7	065212	MCL - 2 Ass'y	1
NO MARKET	8	065297	MCL - 1 Ass'y	1
1	9	1 3 9 7 6 0	MC. Driving Spring	1
	10	1 3 9 7 6 1	MC. Restore Spring	1
1	11	60223122	MCL - 1 Washer	2
	12	66173025	Snap Ring (GS - 3)	1
	13	065213	MCL - 3 Ass'y	1
	14	66172025	Snap Ring (GS = 2)	1
	15	065214	MCL - 4 Ass'y	1
	16	66172025		1
	17	1 39770	MCL - 5	1
Γ	18	66172025	Snap Ring (GS-2)	1
I	19	139771	MCL - 6	1
Γ	20	139772	MCL - 7	1
10.00	21	66172025	Snap Ring (GS-2)	2
Ī	22	139773	MC. Light-Proof Plate	1
Carrier of	23	63901524	MC. Light-Proof Plate S.S.	2
ľ	24	1 39875	S-LED Adjusting Plate - 1	1
ľ	25	61812524	S-LED Adjusting Plate - 1.S.S.	2
	26	139879	S-LED Adjusting Screw	2
	27	1 39877	S-LED Adjusting Plate - 2	1
	28	61914522	S-LED Adjusting Plate - 2.S.S.	
Γ				
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DESCRIPTION	ORDER NO.	ASSEMBLY PARTS	
1 - 21	069750	Mirror Box Ass'y	
		(See! Page No. 4,7,8)	
4. 7-14. 17-21	069195	MC. Base Plate Ass'y	



	PARTS NO	DESCRIPTION	Q'TY
1	*	Mirror Box	1
2	069250	ML. Base Plate Ass'y	1
3	152781	ML. Base Plate Ass'y S.S.	1
4	63913024	71 11	1
5	63914022	11	1
6	139833	ML. Base Plate Spring	1
7	147831	Aperture Resister Spring Post	1
8	065255	ML - 5 Ass'y	1
9	1 3 9 8 0 8	ML - 4 , 5 Spring	1
10	66101525	E- Ring (E-15)	1
11	065256	ML - 6 Ass'y	1
12	63911524	ML - 6 Ass'y S.S.	1
13	1 3 9 8 3 4	11 11	1
	069637	AVR Ass'y	1
	152782	AVR Ass'y S.S.	2
16	147830	Aperture Resister Spring	1
17	069197	QR Base Plate Ass'y	1
18	152781	QR Base Plate Ass'y S.S.	1
19	152782	" "	2

DESCRIPTION	ORDER NO.	ASSEMBLY PARTS
1 - 19	069-750	Mirror Box Ass'y
		(See! Page No. 4,6,8)

AARTS ADS DESCRIPTORY Co.		
## 1815FOF POST 6.5. 1 1981 1800 1981 15.5. 1 1981 1800 1981 15.5. 1 1981 1800 1981 15.5. 1 1981 1800 1981 15.5. 1 1981 1800 1981 15.5. 1 1981 1800 1891 15.5. 1 1981 1800 1891 15.5. 2 1981 1800 1891 15.5. 3 1816 1800 1891 15.5. 4 1982 1800	(37)	
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\$\frac{1}{5}\$ (1386)1 Mount Stopper 5.8. 2		pring pring
### Secretary Se	34	Z 100000 V
## 1,19823 F. Stop Connecting Ning 1		
6 6007011 F. Scop Connecting Ring S.S. 1 1 1 1 1 1 1 2 2 3 4 3 4 4 3 4 4 4 4	(40) (30) (20)	7 139833 F Star Competition
30 23 33 33 22 11 131775 Body Rount 1 1 131775 Body Rount 3.6. 1 1 1 1 131775 Body Rount 3.6. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(26)	8 66001041 F. Stop Connecting Ring S.S. II
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11 14/622 Lock Lever Manher 1 13/7532 Lock Lever Spring 1 13/7532 Lock Lever Spring 1 13/7532 Lock Lever Spring 1 15/7532 Lock Lever Spring 1	36) 33	10 121177 D 1 14 0 0
12 124110 Body Cep 1 1 1 1 1 1 1 1 1		11 147822 Lock Lever Washer 1
30 30 30 30 30 30 30 30 30 30 30 30 30 3		12 128118 Body Cap 1
15 11/7616 Look Lever Sheft 1 16 16/5716 17 19774 Mirror Adhesive Tage 1 17 199774 Mirror Adhesive Tage 1 18 11/791 Mirror Adhesive Tage 1 19 10 10 19 19 19 19		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
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24 6391302 Pents Prism Holder S.S. 1 25 30871 F. Adjusting Washer(t 0.5) 5 -		23 139864 Penta Prism Holder
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31 139869 S. Name Flate 1 32 139861 Penta Cover 1 33 139862 Penta Frism Fixer 1 34 139862 Penta Frism Fixer 1 34 139863 Penta Frism Fixer 1 36 131710 Mirror Cushion 2 37 Acetate Cloth Tape 1 36 131710 Mirror Cushion 2 37 Acetate Cloth Tape 1 38 139873 SPD Holder - 3 1 39 63904024 SPD Holder S.S. 2 40 139878 Eye-Piece Lens 1 41 139882 Eye-Piece Mask 1 41 139882 Eye-Piece Mask 1 42 142-819 Light-Gathering Lens 1 41 139882 Eye-Piece Mask 1 42 142-819 Light-Gathering Lens 1 43 144 145		
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