

RICOH KR-10

REPAIR MANUAL AND REPAIR PARTS

RICOH COMPANY LTD..

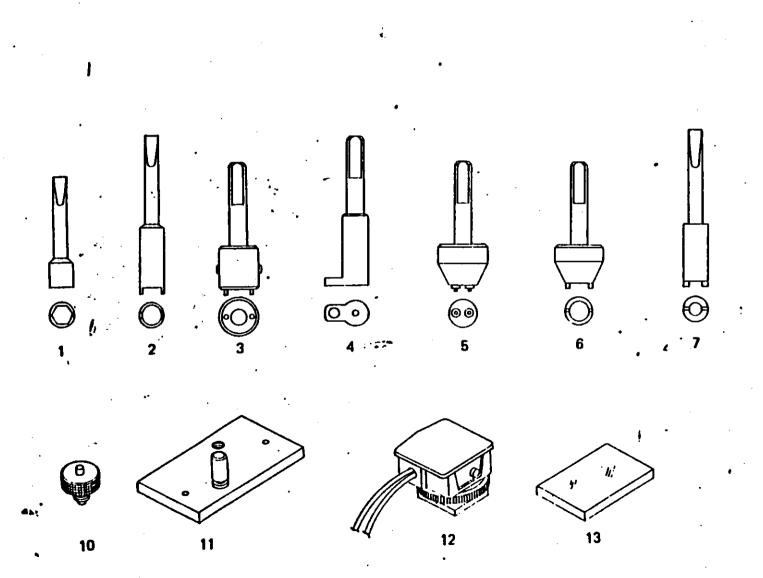
TOOL SET FOR KR-10

Sketch No.	Tool No.	Description	<u> </u>	•		·			
		Description .	XR-Is	XR-2s	XR-1	XR-2_	XR-500	KR-5	K ha
<u> </u>	3121 9999	Tool for Winder Set Position Shaft B (Sketch No. 56 on page 56)	O	0					
2 1	3121 9998	Tool for Winder Set Position Shaft A (Sketch No. 15 on page 56)	O	0					-
3	3121 9997	Tool for Wind Level Nut (Sketch No. 2 on page 48)	0	0		1			1 3
4	3121 9996	Tool for Winding (Sketch No. 21 on page 54)	0	0					1-3
5	3116 9999	Tool for Shutter Speed Dial Screw (Sketch No. 12 on page 48)	Ö	0	0	0	0	0	1
6	3116 9998	Tool for ASA Plate Nut (Sketch No. 30 on page 48)	0	0	0	O .	C.	Q	3
7	3116 9997	Tool for ASA Button Nut (Sketch No. 26 on page 48)	0	0	0	0	0	0	13
8	3116 9996	Tool for Synchro Socket (Sketch No. 34 on page 48)	O	0	0	C	C	0_	
9	3116 9996	Tool for Tool Shaft (Sketch No. 3, 4, 5, 6)	O	0	O	O	O		2
10	3121 9979	Tool for Winder Release Stroke Adjustment A (Fig. 52)	0	0					5
11	3121 9978	Tool for Winder Release Stroke Adjustment B (Fig. 51)	0	0		T			5
12	3121 9977	Tool for LED Checking (Fig. 67)	0	0	1				
13	3116 9979	Tool for 45° Adjustment Mirror (Fig. 42)	()	0	C	0	()	0	<u>``</u>

SPECIFICATIONS

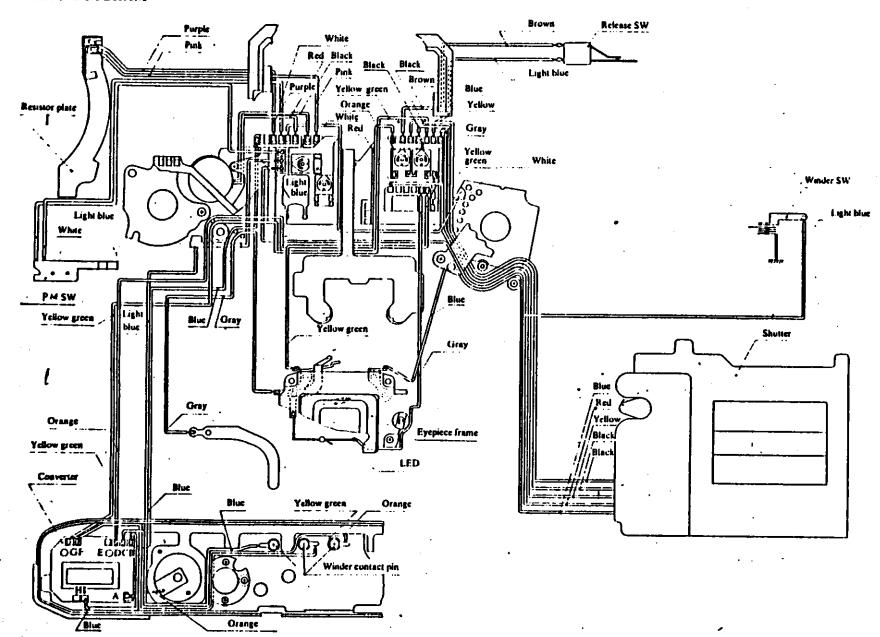
	170 16	EL ACH CVAICHBONI	· ·
CAMERA TYPE		FLASH SYNCHRONI-	V amakaaninataa fan di ee te fie keeste emme
•	35 mm aperture-priority AE (automatic exposure) SLR with electronic metal focal plane shutter	ZATION	"X synchronization for electronic flash unit at "B", "X" (1/90 sec.) and 4 sec. to 1 125 sec.
FILM FORMAT	· · · · · · · · · · · · · · · · · · ·	AUTOMATIC FLASH	
FILM SIZE AND			With Ricoh XR Speedlite 240, set shutter speed dial
	35 mm perforated film in 12, 20, 24 or 36 exposures	out the same of th	at auto and it will set shutter speed 1/90 sec.
	50 mm XR Rikenon f/1.4 (Multi-coated), 6 groups 7		automatically.
STANDARD LENS	elements		Manually set the aperture ring to the same aperture
	50 mm XR Rikenon f/1.7 (Multi-coated), 5 groups 6		set on flash.
		EI ACU TEDMINAI	"X" flash terminal, "X" contact (with electric shock
	elements	PLASH TERMINAL	
•	50 mm XR Rikenon f/2.0, 5 groups 6 elements	•	prevention mechanism) on hot shoe for cordless
1 5210 1 601 115	Filter size: 52 mm screw in type	. FILM LOADING	electronic flash unit
	"K" type bayonet with 65° rotating angle	FILM LOADING	
: SHUTTER	Vertically moving Copal EF60? electronically	LIFW AIMD	Single stroke film advance lever with 135° winding
	controlled metal focal plane shutter		angle (40" play)
	Automatic electronic shutter: continuously variable		Automatic winding possible mounting Ricoh winder-
	speeds from LT (approx. 8 sec.) to 1/1000 sec.		1.
	Manual electronic shutter: stepped speed from 4 to	FILM REWIND	-Engage film rewind by pressing film rewind button
	1/1000 sec.		on base of camera
	Manual mechanical shutter without batteries: "B"	EXPOSURE COUNTER	
	and "X" (1/90 sec.)	OTHER FEATURES	
VIEWFINDER	Fixed eye-level pentaprism, shutter speeds, "A" (automatic), "B" (bulb), "FX" (1/90 sec.),	• • • •	liot shoe
•	exposure meter needle (also acts as battery checker),		Shutter release lock (with film advance lever)
	shutter speed indicator and battery check zone	4	Meter on/off switch (with shutter release button)
	visible.		heter on on switch (with subject teres outlon)
••	Viewing magnification 0.83X		;
	Field of view covers 93% of actual picture area		•
- ·	Flash ready lamp (LED)		ASA dial lock
FOCUSING ~~~~	Diagonal split-image spot in microprism band		Cable release socket
10comic ,	surrounded by fresnel field	•	Tripod socket
EXPOSURE METER	· Three CdS photocells TTL full open metering for		Plus/minus 2-stop exposure compensation dial (+2,
Entocone Meter	center-weighted average light reading coupled to		+1, 0, -1, -2)
***	aperture-priority automatic exposure system	•	11, 0, -1, -2,
EXPOSURE COUPLING	aperture priority surements expenses eyes	•	ASA/DIN conversion label (on back of back cover)
	LV 10 18 (ASA 100 film with 50 mm f/1.4 lens)		Automatic exposure lock button
	ASA 12 to 3200 (DIN 12 to 36)	DIMENSIONS	
EXPOSURE METER	tion to to save from to see		Width: 139.9 mm (5.51 inches)
	· Two 1.5V silver-oxide batteries (Mallory MS76,		Height: 91.3 mm (3.59 inches)
TOWER BOILE	Eveready S76 or equivalent)	•	Thickness: 48.0 mm (1.89 inches)
	Express) are or admiratority	· NECLET	The series The Hill (1.07 Birlies)

1. TOOL SET FOR KR-10



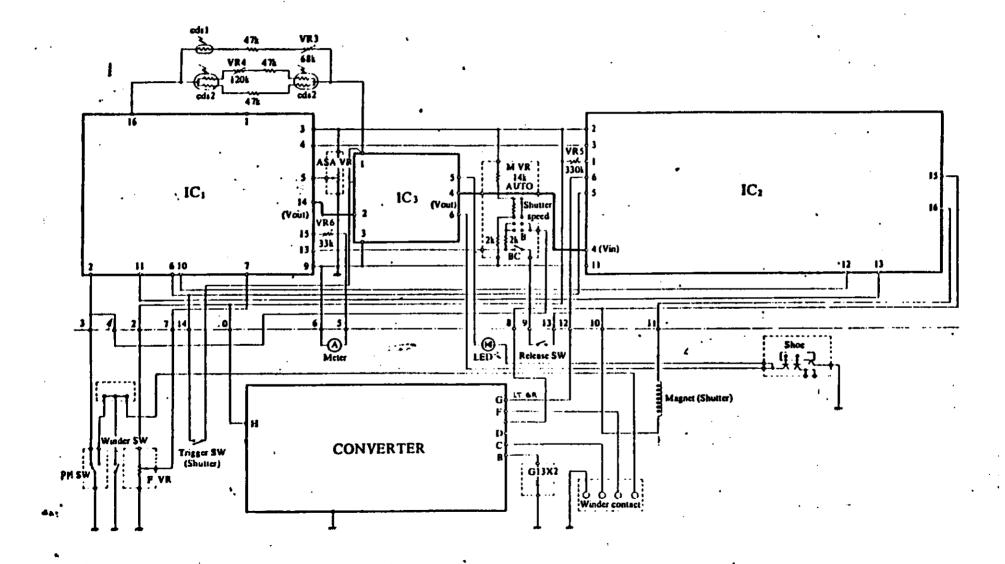


2. WIRING DIAGRAM



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3. SCHEMATIC DIAGRAM

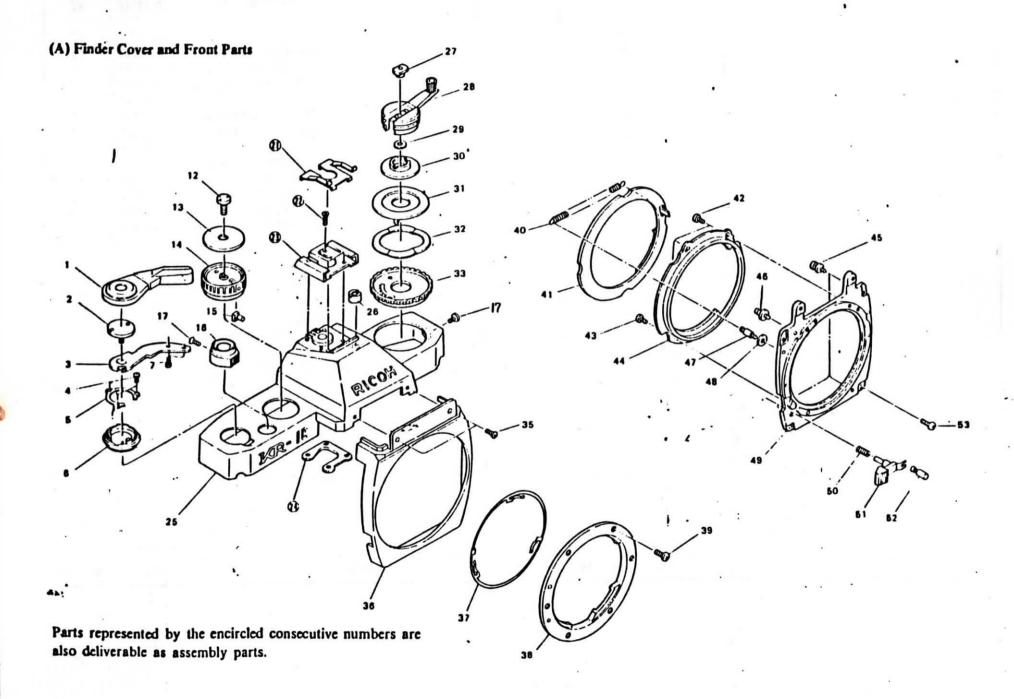


4. ADJUSTMENT OF ELECTRICAL EQUIPMENT

Name of adjustment	Shutter	ASA	Lens	LV	Setting on measurement	Standard	Release SW	Adjusting point	Use the tester or tool
	1/1000				1/1000	0.65~1.48 ms	ON	VRS	Shutter tester
Shutter speed	1/125				1/125	7.04 ~ 10.3 ms	ON	VR2	Jilotter Water
Power source					Terminal 0 or 1	5.20~6.00V	ОИ		Digital multi meter
	17		F1.4	• 9	IC,	see Fig. 61	ON	VR3	1. Digital multi meter
CdS	/		940	15	terminal 1	sec Fig. 61	UN	VR4	2. Dummy cover
Exposure		100_	F1.4 ∞	9	IC ₁ terminal 14	see Fig. 64	on'	VRI	Digital multi meter Dummy cover
Meter		100	F1.4	9	in the finder	see Fig. 64	ON	VR6	1. Dummy cover
Battery checker			/		in the finder	see Fig. 64			
LED checking	AUTO		1		LED light on	7.1~11 ms	ON	/:	For the LED checking tool Regulated DC power supply on speedlite 240

NOTE

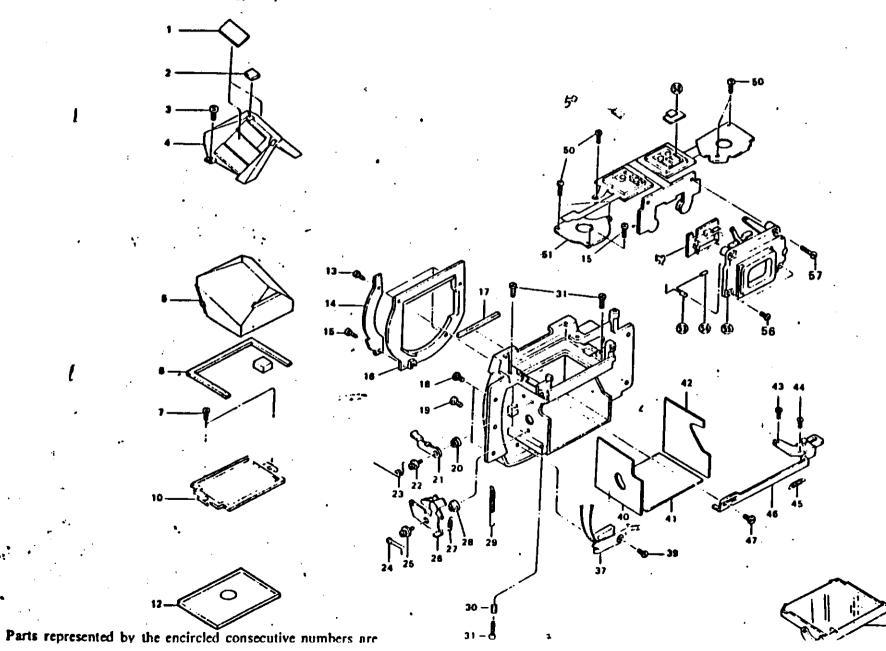
PLEASE REFER TO THE REPAIR MANUAL OF XR-2S FOR ADJUSTMENTS.



Sketch No.	Part No.	Description
1	31214102	Cover: wind lever
2	31214103	Nut: wind lever
3	31214101	Wind lever
4	02414020W	Screw M1.4 x 2.0
5	31195512	· ·
6 1	31195511	Plate: finder cover holder
1 7 '	09842045W	Finder cover holder
1 '	U9842043W	Tapping screw M2.0 × 4.5
		•
1,2	31161359	Second shutter and diel
13	31216106-	Screw: shutter speed dial
14	31162106	Shutter speed plate 31196233 Shutter speed dial
15	31162107	Shutter dial lock button
16	31195121	Release holder
17	31195136	Screw
.,	31175136	Screw
	0.40	
(21)	31214252	Spring: accessory shoe
(22) /	02017035Z	Screw M1.7 × 3.5
(23)	31214251	Accessory shoe
(24)	31214254	Nut: accessory shoe
(21~25)	31216059	Finder cover ass'y
26	31161415	Nut: ASA button
27	31161424	Nut: rewinding disk
28	31161054.	Rewinding disk asa'y
29	31161426	Washer
30	31161411	Nut: ASA plate
- 31	31211070	ASA plate ass'y
32	31162110	Washer: ASA plate
33	31211069	ASA dial ass'y
35	31163004	Screw M.17 x 5.0
36	31195132	Front cover ass'y
. 37	31161672	Spring: mount
38	31161671	Lens mount
39 -	02420040F	Screw M2.0 x 4.0

Sketch No.	Part No.	Description
40	31161636	F stop spring
41	31161047	F stop ring ass'y
42	02417030W	Screw M1.7 × 3.0
43	31196247	Screw
44	31161634	Shield ring: lens mount
45	31161632	Spring hook B
46	31161638	Screw A
47	31161630	Stopper B
48	31161637	Washer
49	31161621	Base: lens mount
50	31161676	Spring: lens lock button
51	31211012	Lens lock button ass'y
52	31161673	Lens lock pin
53	02420040W	Screw M2.0 × 4.0
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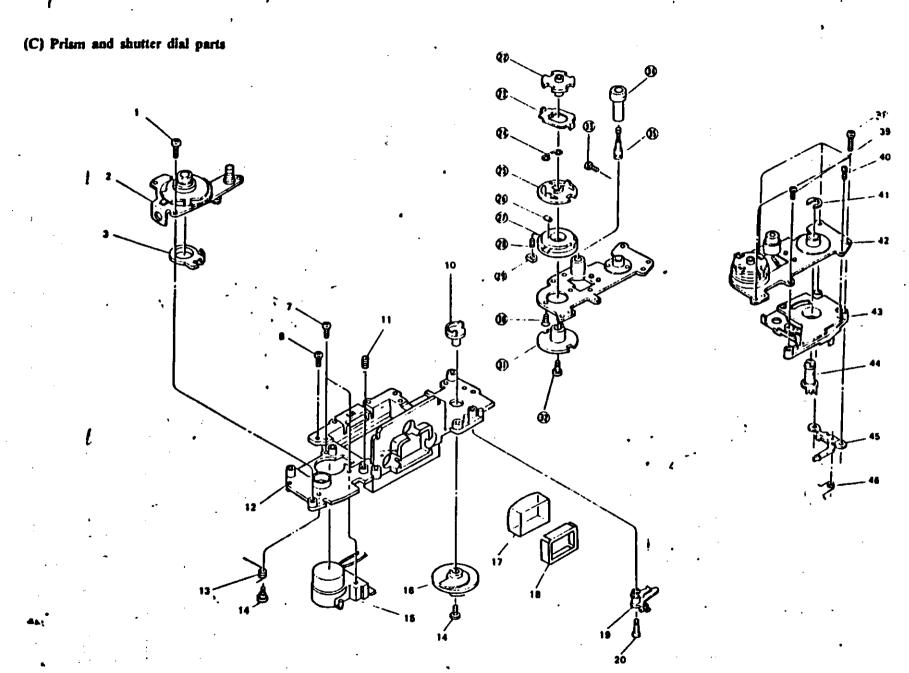
(B) Mirror Box and Viewfinder Parts



Sketch No.	Part No.	Description
1	31161862	Adhesive tape
1 2	31161310	Shield
3 .	31121522	Tapping screw M1.7 × 3.5
4	31161306	Prism cover
5	31195101	Prism
6	31161309	Shield: prism
7	02417020W	Screw M1.7 × 2.0
10	31216109	Field frame
12	31196227	Fresnel lens
13	02417030Z	Screw M1.7 × 3.0
] 14	31162021 -	Resistor plate ass'y
15	09841740Z	Tapping screw M1.7 × 4.0
16	31161635	Shield plate: lens mount
17	31161582	Shield
18	02520035W	Screw M2.0 × 3.5
19	09851735Z	Tapping screw M1.7 × 3.5
20	31161517	Shaft: adjusting lever (left)
21	31161045	Adjusting lever ass'y (left): M frame
22	₁ 31161518	Screw: adjusting lever (left)
23	31161519	Spring: adjusting lever (left)
24	3119 6226	Spring Shaft screw: focus adjusting arm
25	31161604	Focus adjusting arm ass'y
26	31211010	3
27	31214212	Spring Shaft: focus adjusting arm
28	31161603	Spring
29 30	31161608	Spring
30	31161609	Screw
1 "	31101007	western ,
4.	1	· ·
. [
37	31216063	switch ass'y
39	02417635Z	Tapping screw M1.7 × 3.5

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Sketch No.	Part No.	Description
40	31214218	Shield B
41	31161581	Shield C
42	31161579	Shield A
43	02417030W ·	Screw M1.7 × 3.0
44	02017030W	Scrow M1.7 × 3.0
45	31161372	Spring
46	31161008	Speed connection lever ass'y
47	31196248	Screw
(48)	31161311	Spring: mirror frame 3/2/6/44
(48~49)	31191043	Mirror frame ass'y
50	098514307	Screw M1.4 × 3.0
51	\$1314088-	CdS circuit board ass'y より 100 100 100 100 100 100 100 100 100 10
5.2	31195501	France: eyerisse
(53)	31214263	LED
(54)	31214265	Tube: LED
(53~55)	31211035	Eyepiece frame ass'y
56	31161308	Screw .
57	09841780Z	Tapping screw M1.7 × 8.0
(58)	31214623	IC,
52	? : 1463*	Piace
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Parts represented by the encircled consecutive numbers are also deliverable as assembly parts.

Sketch No.	Part No.	Description
1	024170707	<u> </u>
1 2	02417070Z	Screw M1.7 × 7.0
	31191010	ASA base plate ass'y
,	31161010	ASA contact ass'y
		· · · · · · · · · · · · · · · · · · ·
1		
7 "	098514303	Tapping screw
l i	02517035W	Screw M1.7 x 3.5
1		•
10	31162101	Shaft: shutter dial cam
11	31161427	Spring
12	31161301	Prism frame
13	31161428	Spring
14	31196244 ;	Screw
[15]	31162316	Exposure meter movement
16	31162102 ·	Speed indication cam
17	\$1516404 -	Eyepiece lens #1#/3/196233
18	31161305	Mask: eyepiece lens
19	31161050	Shutter dial arm ass'y
20	31196235	Shaft: shutter dial arm
(22)	31161355	Nut: shutter dial shaft
(23)	31162104	Lock plate: shutter dial
(24)	31162105	Spring
(25)	31162103	Click plate: abutter dial
(26)	31161356	Click
(27)	31161352	Bush: shutter dial
(28)	31161357	Spring
(29)	31161353	Nut
(30)	02017035Z	Screw M1.7 x 3.5
(31)	31162011	Shutter dial shaft
(32)	31196245	Screw
(33)	02417035W	Screw M1.7 × 2.0
4: (34)	31161282	Release button
(35)	31161283	Shaft: release button
 		
38	0041040	
	024170702	Screw MI.7 × 7.0
39	09851735Z	Tapping screw M1.7 × 3.5

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Sketch No.	Part No.	Description
40 09851435Z 41 31214184 42 31216051 43 31211020 44 31214104 45 31211021 46 31214109		Tapping screw M 1.4 × 3.5 Retaining ring 4¢ Shutter dial base plate ass'y Film counter ass'y Wind shaft A Wind lever click ass'y Spring: wind lever click ass'y
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(D) Body, back cover and film transport parts

Sketch No	Part No.	Description
1	02520070Z	Screw M2.0 × 7.0
2	31161016	Strap metal ass'y
3	31161416	Rewinding shaft
4	09841730Z	Tapping screw M1.7 × 3.0
5	31195514	Lock spring: back cover
6	31161464	Latch: back cover
7	31161466	Clip cover
8	02014030W	Screw M1.4 x 3.0
9	31161465	Shaft: back cover latch
10	31216067	Body ass'y
11	31161488	Shield
12	31161469	Screw: film guide
13	31163002	Screw M2.0 x 5.5
14	02517045W	Screw M1.7 x 4.5
15	31161128	Eccentric shaft
16	31161127	Stopper: reverse rotation
17	31161129	Spring
18	31161057	Gear B, C ass'y
19	31214118	Spring: wind clutch ass'y
20	02017060Z	Screw M1.7 × 6.0
21 22	31211013	Wind clutch ass'y
22	31161055	Gear A ass'y
23	02417030Z	Screw M1.7 x 3.0
25	02017030W	Screw M1.7 x 3.0
26	31191001	Wind shaft base plate ass'y
27	31161121 31161022	Spool gear
- '	31101022	Holder ass'y: spool
·		
32	31195519	Holder: sprocket gear
33	02414025Z	Screw M1.4 × 2.5
3.4	31161137	Pin
4435	31161154	Sprocket gear
	31161139	Sprocket metal
: - I	31161138	Sprocket
1	31161141	Screw: sprocket
39 .	31214242	Spring

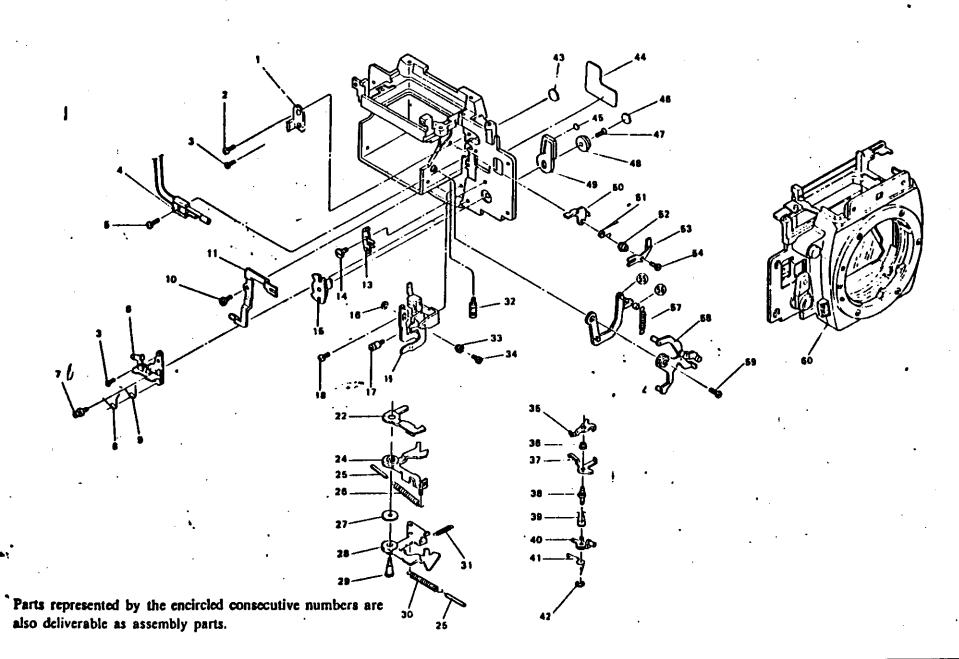
Sketch No.	Part No.	Description
40	31195503	Sprocket shaft
41	31195502	Sprocket shaft button
42	31161017	Spool ass'y
43	024170702	Screw M1.7 × 7.0
44	31161489	Shield :
45	09801725W	Tapping screw M1.7 x 2.5
46	31161007	Back cover ass'y 316 1065
47	31162130	ASA-DIN label
48	31161006	Pressure plate ass'y
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Note: Pail # 5 As listed is old Type

New type Screw Has Nut on other end (came part #) (E) Shutter and bottom parts

Sketch No.	Part No.	Description
	31161482	Battery case
2	31161483	Contact: battery case
3	09841420W	Tapping screw M1.4 × 2.0
4	02417025W	Screw M1.7 × 2.5
5	3P161228	Shaft screw
6 - 1	31211016	Q set connection lever ass'y
7	31161286	Screw
8	31214137	Spring: release shaft
9	31161598	Front leather: right
10	05020100W	Screw M2.0 × 10
11	31162211	Release shaft
12	31161589	Screw
13	02414025Z	Screw M1.4 × 2.5
14	31214620	Buib release lever
15	31214128	Winder set position shaft A
16	31161213	Lock lever
17	31161214	Shaft: lock lever
18	31161215	Spring: lock lever
19	31214121	Rewinding spring
20	31214120	Wind shaft B
21	31214123	Bush: wind shaft B
22 /	31216044	Wind ratchet ass'y
23	31211025	Wind connection lever ass'y
24	31216137	Winder connection shaft
25	31215142	Screw: winder connection shaft : : :: :: ::
26	31214230	Bush: connection lever ass'y
27	07200012C	Retaining ring
28	31211015	Nail lever ass'y
29	31196252	Shaft screw: nail lever
30	31214126	Spring: nail lever
31	31161212	Spring lock
32	02017030Z	Screw M1.7 × 3.0
33	11161209	Safety lever
34	31161210	Shaft: safety lever
35	31161211	Spring
36	\$1214151:	Spring: winder safety lever 3/2/6/33
37	31211012	Winder safety lever ass'y 3/1/4062
- 38	\$131413 <u>6</u>	Shaft: winder safety lever (3/4/6/44) Nui
39	31214172	Spring

Sketch No.	Part No.	Description
Sketch No. 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64	Part No. 31214155 31214062. 02417030Z 31211083 31161481 02017035Z 31162208 31214170 31214171 31214164 31214183 31121159 31161004 31162301 31162202 31162201 31214140 02417020W 31161597 31161187 31161186 02020030Z 31163005 31214602 31171271 3/2/8/34	Spring Wind connection lever guide ass'y 3/2/606/ Screw M1.7 × 3.0 Winder contact pin ass'y Tripod socket Screw M1.7 × 3.5 Converter earth Winder release pin Holder: winder release pin Spring Bottom cover 3/2/2/90 (New') Screw M1.7 × 2.5 Battery cover ass'y Converter Washer Screw Winder set position shaft B Screw M1.7 × 2.0 Front leather: left Shield plate S stopper Screw M2.0 × 3.0 Shield Shutter ass'y 3/2/8/57 Shield
	in the second se	



Sketch No.	Part No.	Description	
1	31161576	Plate	
. 2	02417025W	Screw M1.7 × 2.5	
· 3	02017025W	Screw M1.7 × 2.5	
4	31162015	Release switch ass'y	
5	02417050Z	Screw M1.7 × 5.0	
6 Į	31211061	Winder release base plate ass'y	
7	31214186	Winder release stopper	
8	31714189,	Spring: release lever B 9/2/6/86	
9	31214167	Spring: winder release	
10	31196249	Shaft screw: release lever	
11	31214610	Release lever	
13	31211071	Self connection lever ass'y	
14	31162206	Shaft screw: self connection lever	
15	31214219	Shaft: self timer	
16	31161563	Washer	
17	31214216	Spring hook.	
18 •	02417020W	Screw M1.7 × 2.0	
. 19	31216065	PV connection lever ass'y	
²² b	31214226	PM lever	
24	31211007	Mirror connection lever ass'y	
25	31162212	Tube	
26	31161550	Spring	
. 27	31161346	Washer	
28 .	31216053	Q set lever ass'y	
29	31161547	Shaft screw: Q set lever	
30 -	31216132	Spring	
31	31161549	Spring	
32	31161559	Screw: spring hook	
33	31214238	Bush Screw MI.7×3.5] 3/2/1/47 (Bust 庭田 L X 07	()
الندا	02517035W		
35	31214227	PM stop lever	
36 .	31163016	Bush	
37	31214225	Lever A	
38	31163015	Shaft: stop lever	
39	31214240	Spring: PM stop lever	٠

Sketch No.	Part No.	Description
40	31211023A	Q set lever ass'y
41	31161353.	Spring 3/2/6/83 -
42	07200015C	Retaining ring
43	31195129	l ² Inte
44	31161596	Plate
45	31195520	Self lever pointer
46	31195506	Self lever decoration plate
47	31195507	Screw
48	31195505	Plate: self lever
49	31 195504	Self lever
50	31161044	Adjusting lever ass'y (right): M frame
51	31161515	Spring
52	31196242	S lever bush
53	31161521	S lever
54	31196252	Screw: S lever
(55~56)	31218054	Diaphragm lever ass'y
(56)	31214207	Ring: diaphragm lever
57	31161537	Diaphragm spring
58	31161032	Mirror up lever ass'y
59	31196253	Screw
60	31216002	Mirror box ass'y
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