

Mamiya

SERVICE INSTRUCTIONS

**120/220 Roll Film Power Drive
and Power Drive Control Pack
for**

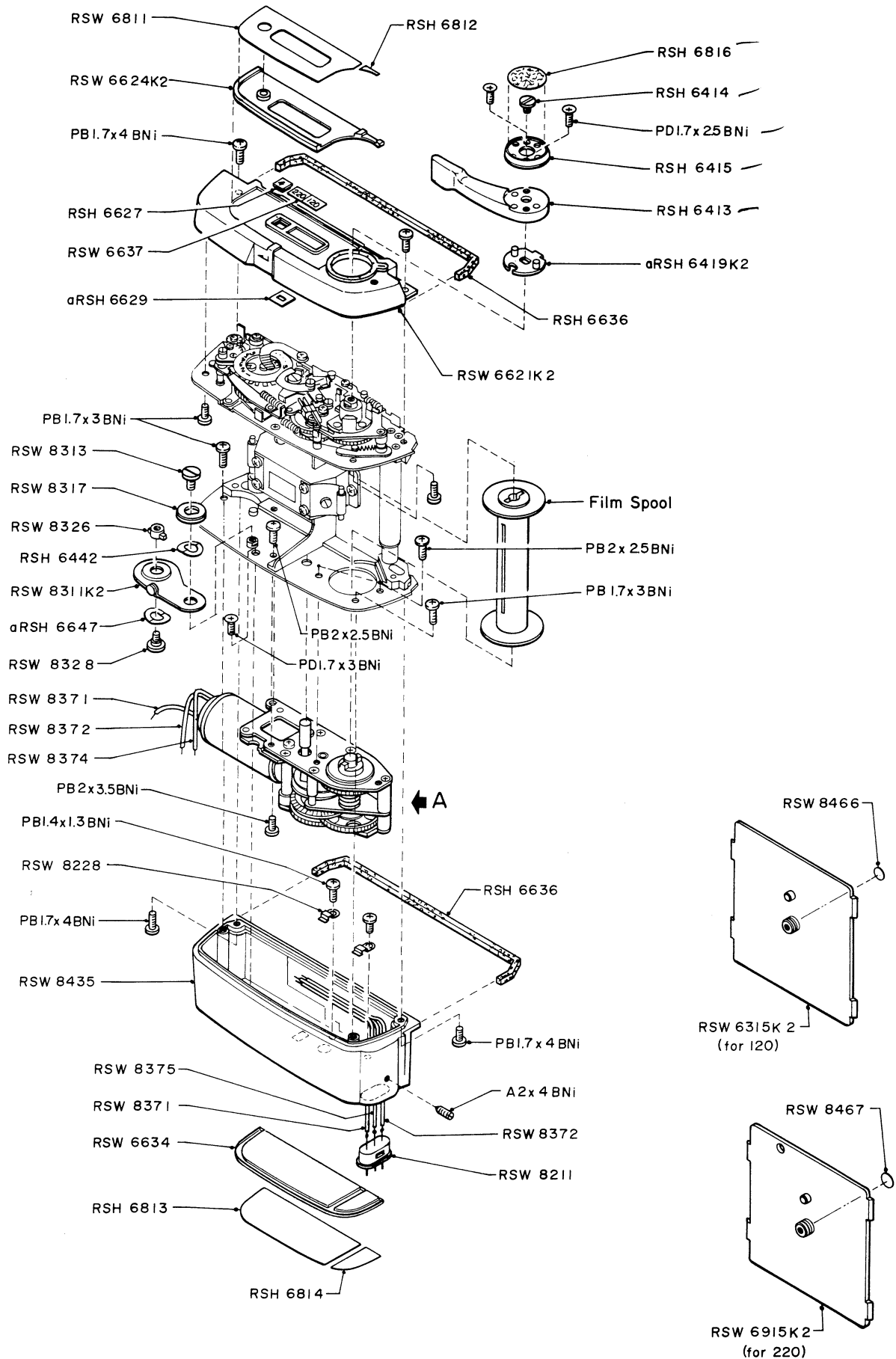
Mamiya RB67

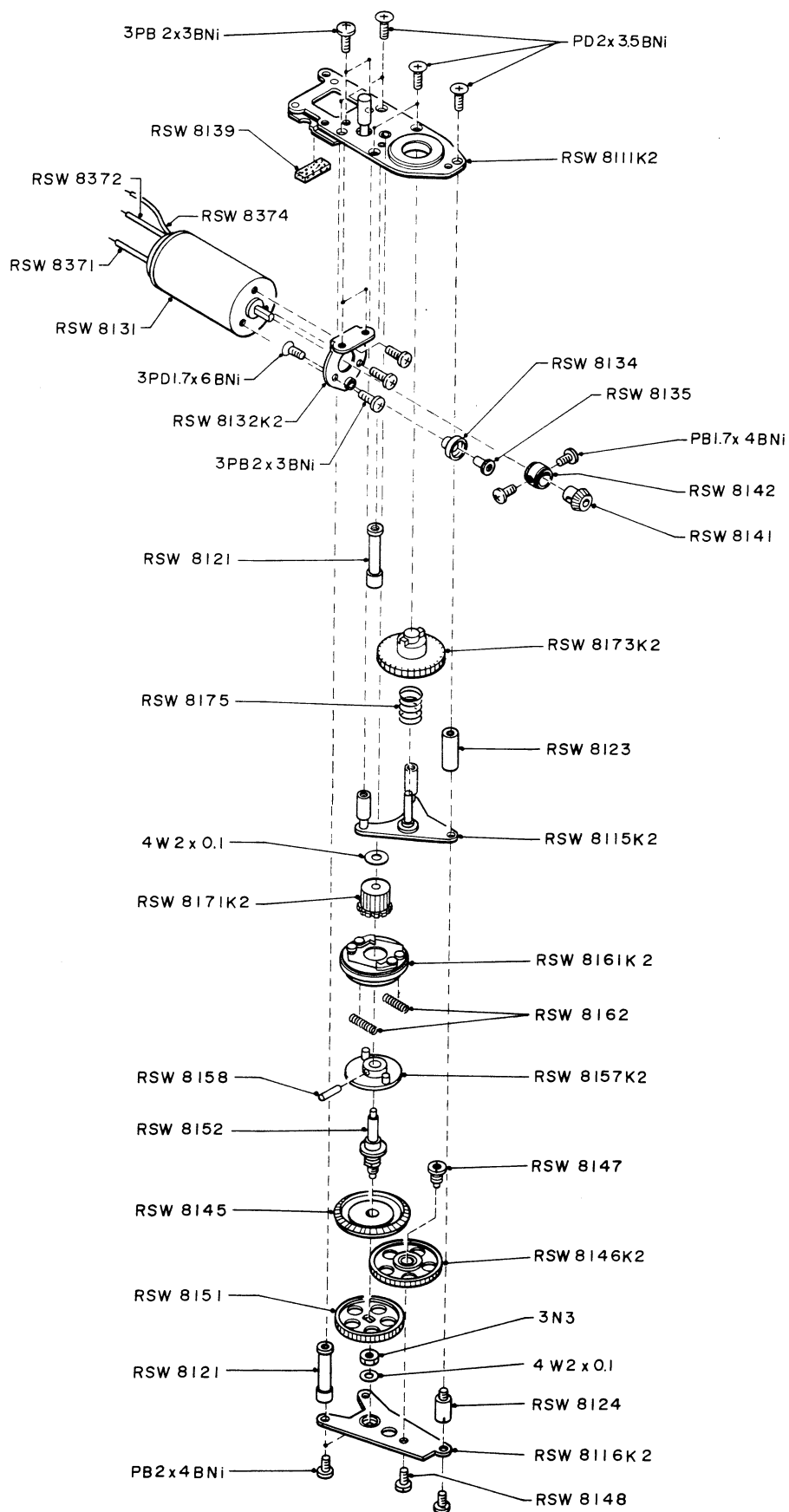
Parts Catalog
for
120/220 Roll Film Power Drive (RSW6100)
and
Power Drive Control Pack (RSW8500)
for
Mamiya RB67

P.C.1978-8-RBACC

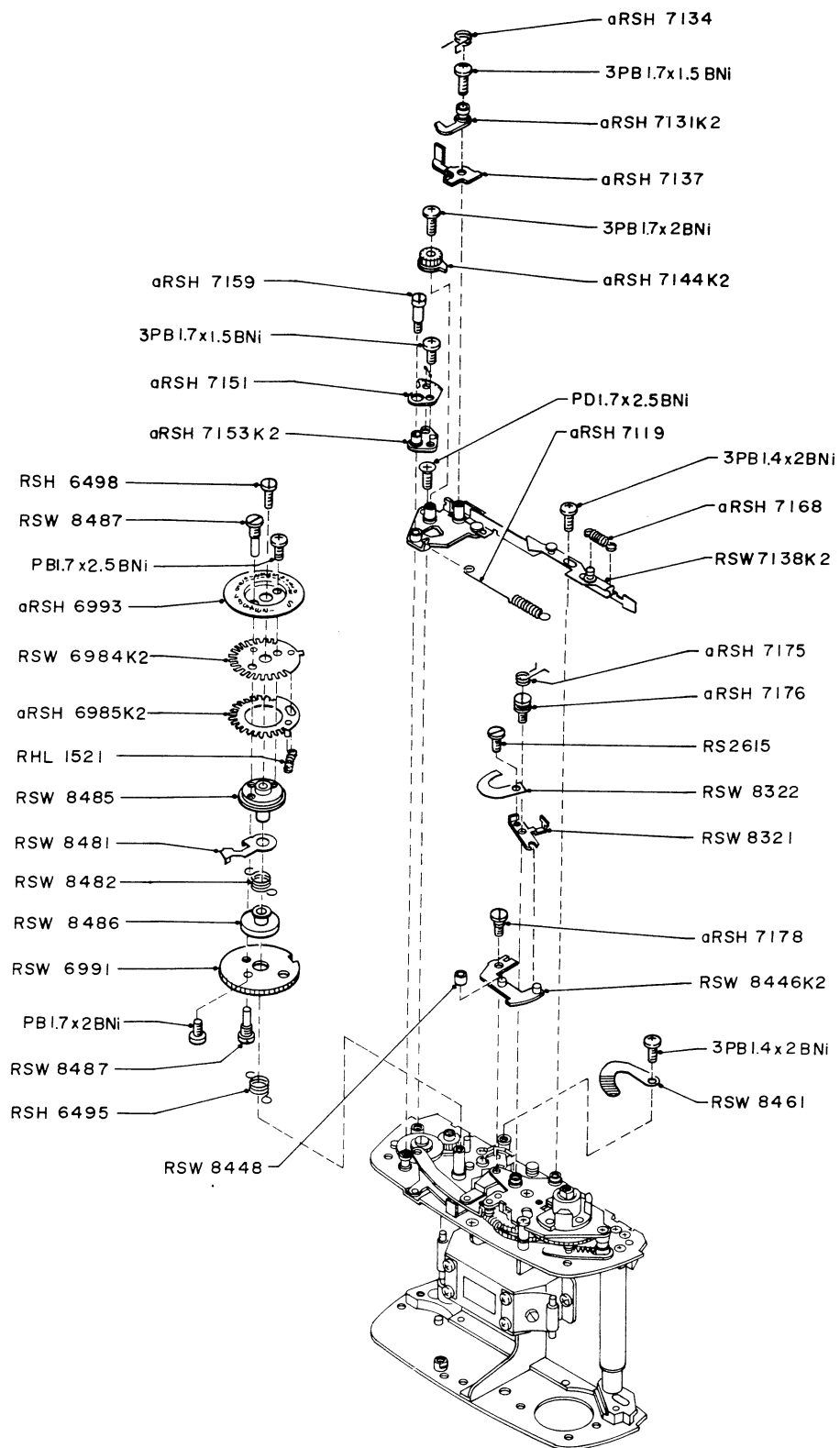


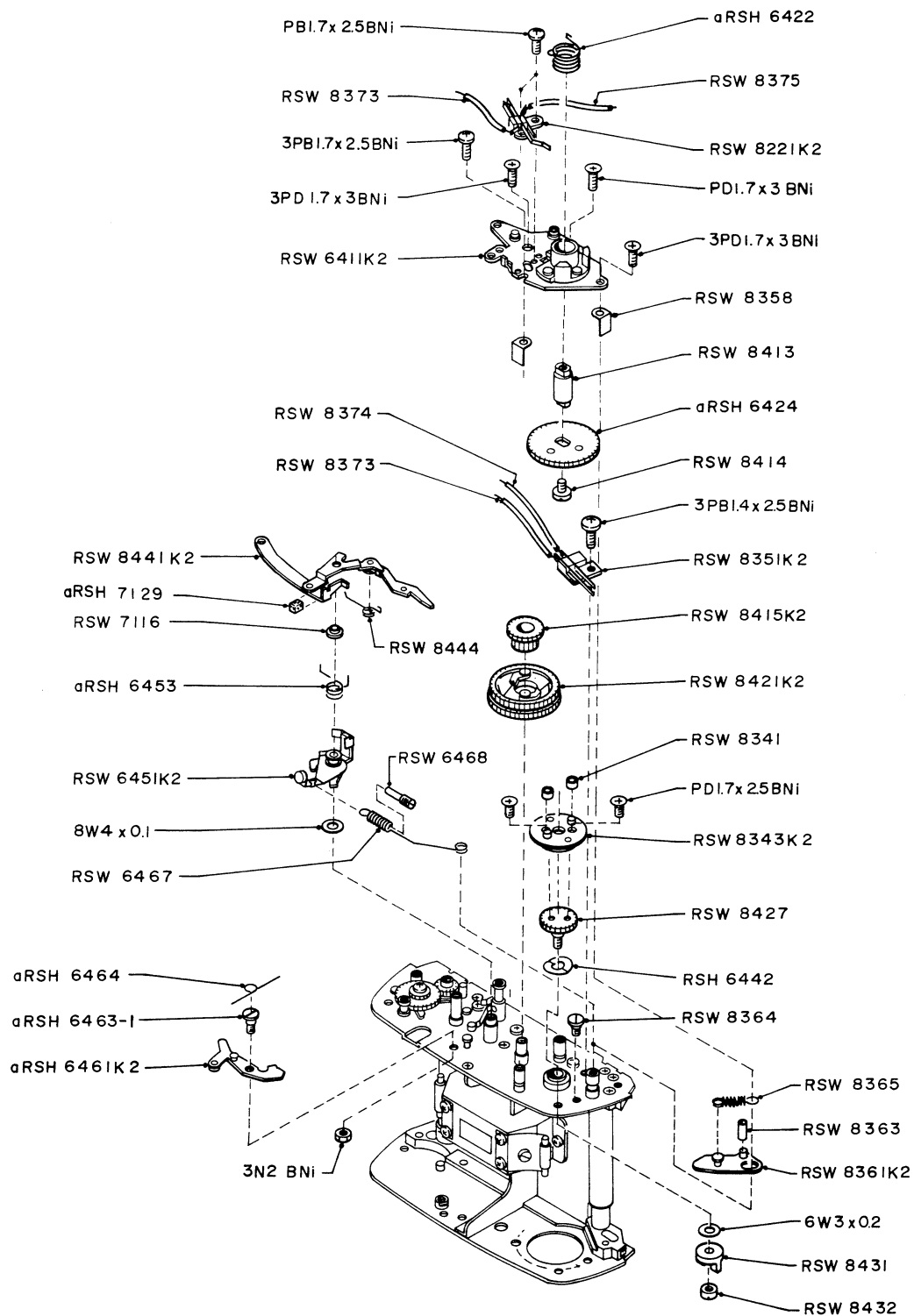
120/220 Roll Film Power Drive (RSW 6100) for Mamiya RB67

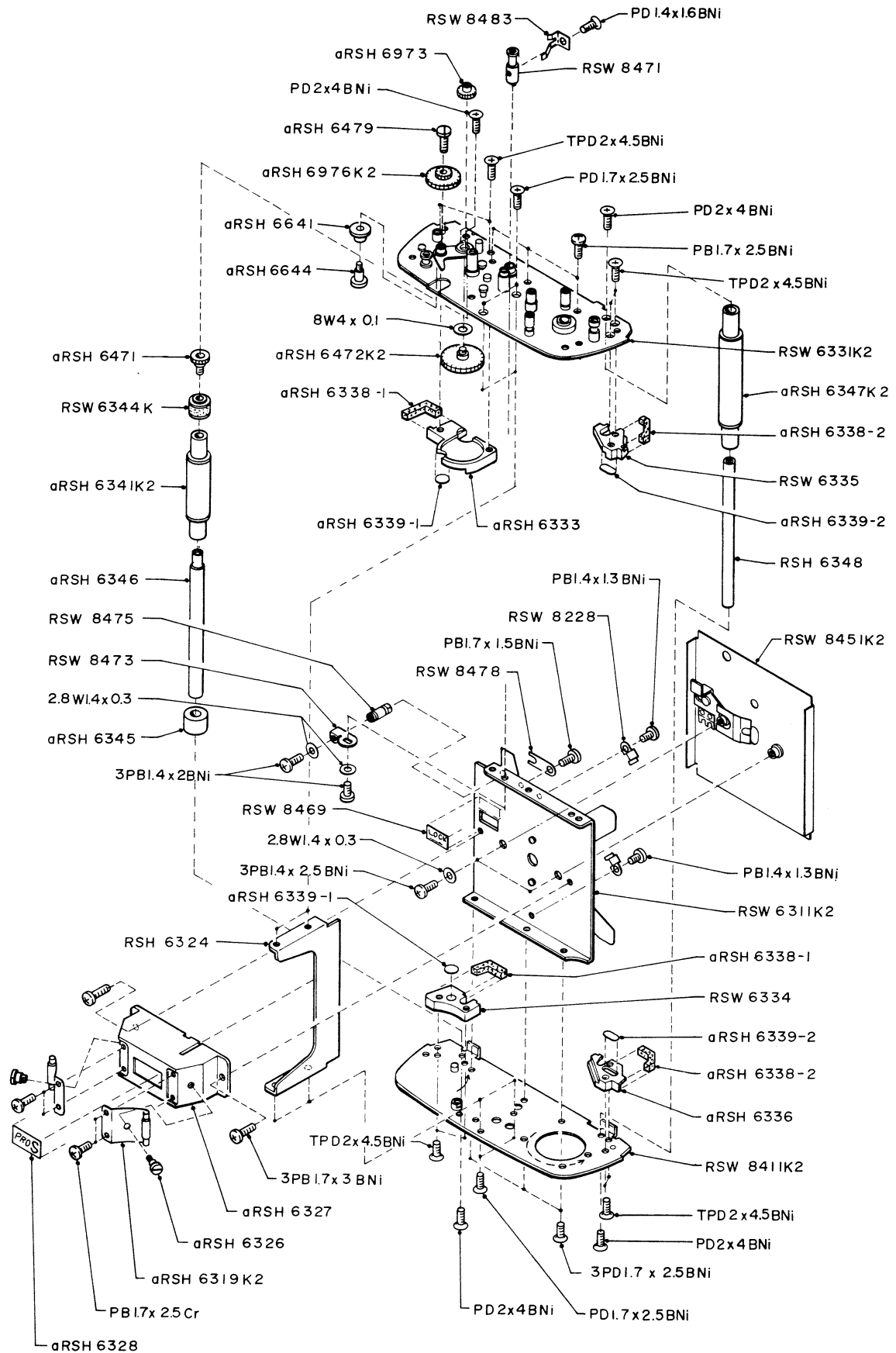


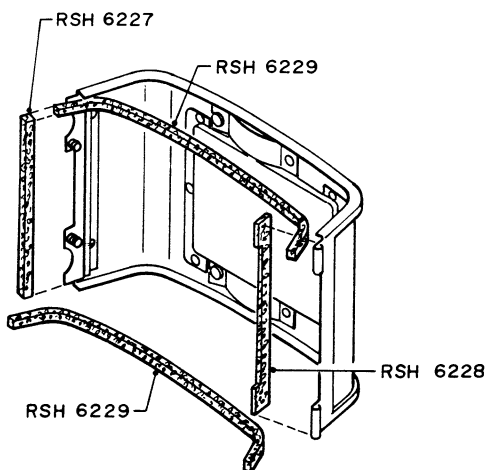
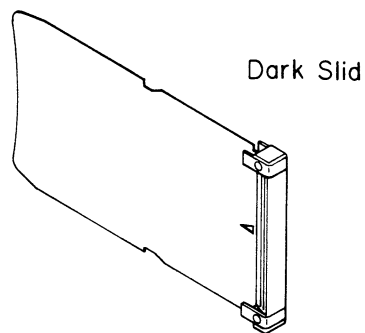
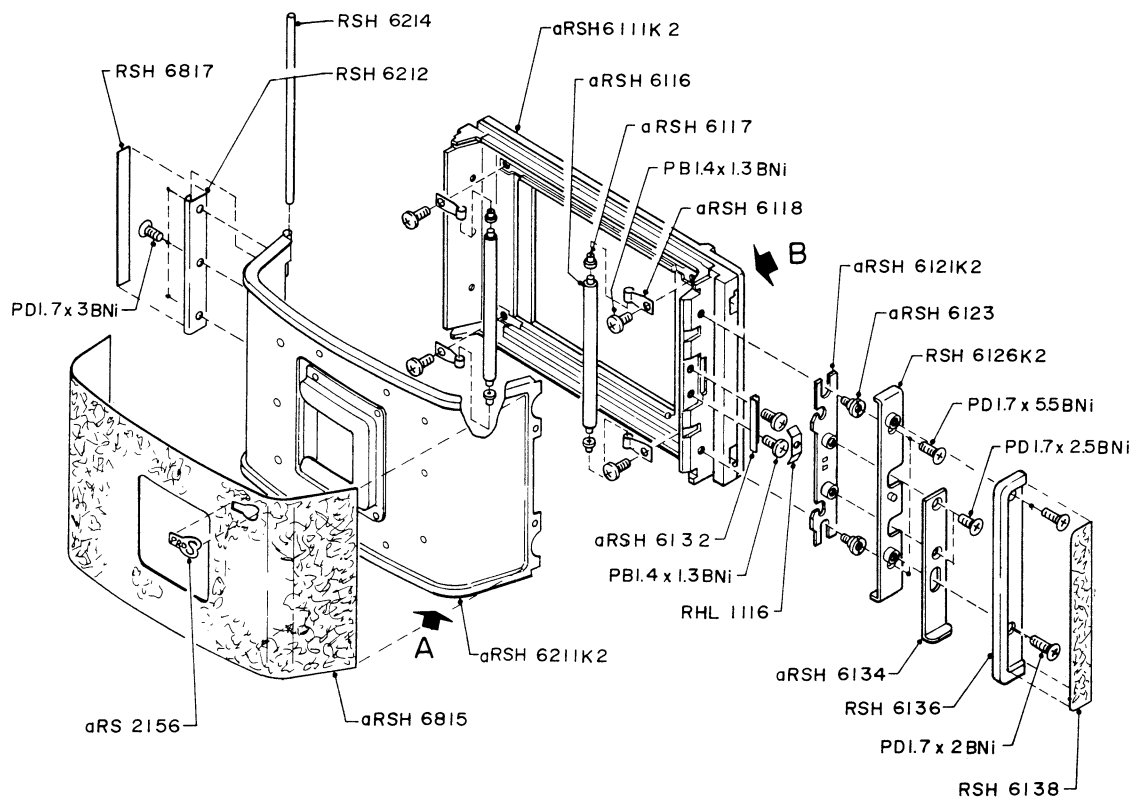


DETAIL "A"

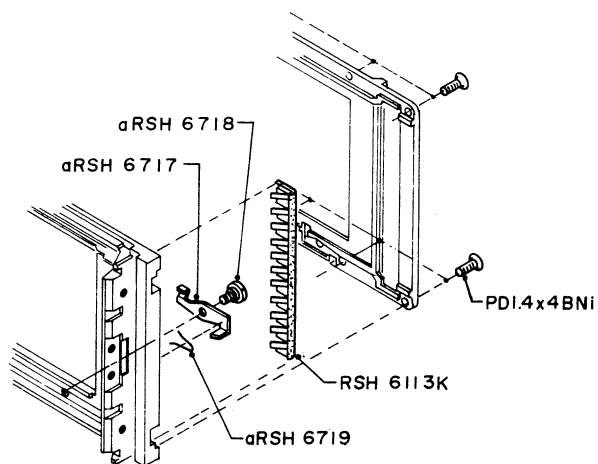






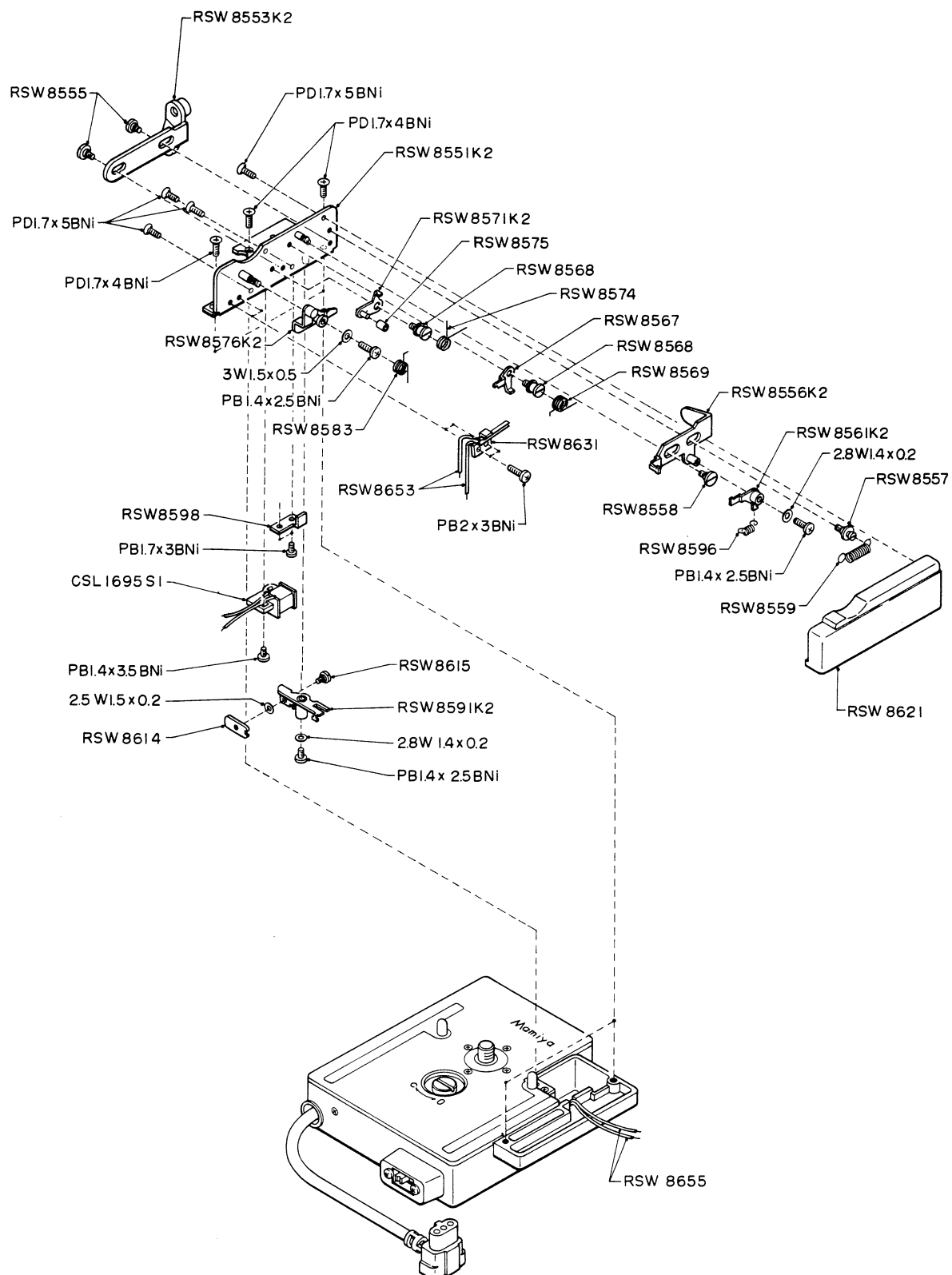


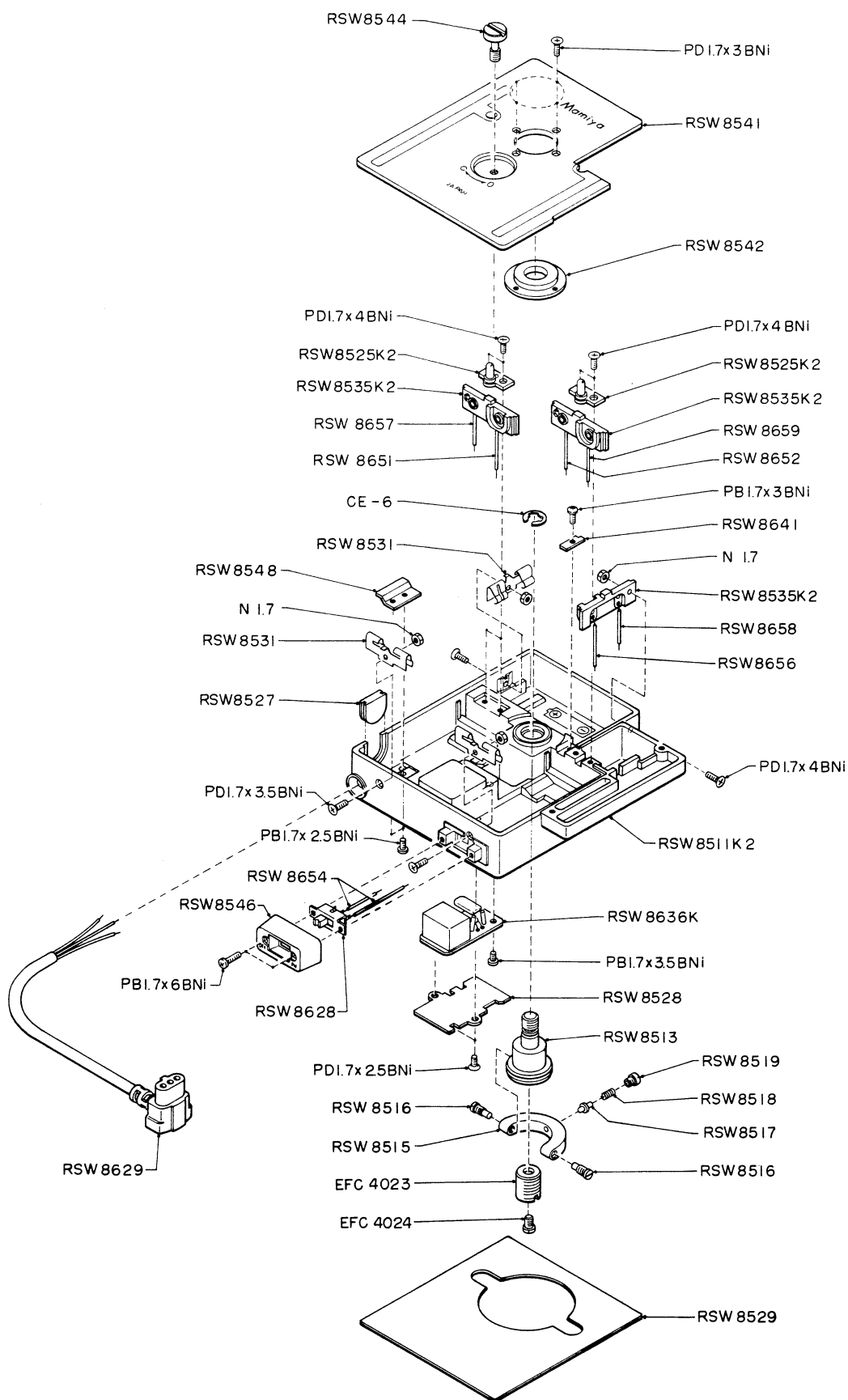
DETAIL "A"



DETAIL "B"

Power Drive Control Pack (RSW 8500) for Mamiya RB67





120/220 Roll Film Power Drive (RSW6100) for Mamiya RB

Parts No.	Description	Pcs.	Ref. Page
RSW6311K2	Plate holder	1	5
RSW6315K2	Pressure plate for 120 roll film	1	1
RSW6331K2	Base plate upper	1	5
RSW6334	Film guide	1	5
RSW6335	Film guide	1	5
RSW6344K	Counter roller	1	5
RSW6411K2	Base plate	1	4
RSW6451K2	Winding stop lever	1	4
RSW6467	Spring	1	4
RSW6468	Screw	1	4
RSW6621K2	Top cover	1	1
RSW6624K2	Cover plate	1	1
RSW6634	Cover plate	1	1
RSW6637	Discrimination plate	1	1
RSW6811	Leatherette	1	1
RSW6915K2	Pressure plate for 220 roll film	1	1
RSW6984K2	Counter dividing device	1	3
RSW6991	Film counter gear	1	3
RSW7116	Collar	1	4
RSW7138K2	Preventive lever assy.	1	3
RSW8111K2	Base plate	1	2
RSW8115K2	Plate	1	2
RSW8116K2	Plate	1	2
RSW8121	Shaft	2	2
RSW8123	Shaft	1	2
RSW8124	Shaft	1	2
RSW8131	Motor	1	2
RSW8132K2	Disk	1	2
RSW8134	Collar	1	2
RSW8135	Shaft	1	2
RSW8139	Sponge	1	2
RSW8141	Bevel gear	1	2
RSW8142	Cover	1	2

Parts No.	Description	Pcs.	Ref. Page
RSW8145	Bevel gear	1	2
RSW8146K2	Gear	1	2
RSW8147	Shaft	1	2
RSW8148	Screw	1	2
RSW8151	Gear	1	2
RSW8152	Shaft	1	2
RSW8157K2	Disk	1	2
RSW8158	Shaft	1	2
RSW8161K2	Winding stop disk	1	2
RSW8162	Spring	2	2
RSW8171K2	Clutch gear	1	2
RSW8173K2	Gear	1	2
RSW8175	Spring	1	2
RSW8211	Power source socket	1	1
RSW8221K2	Switch	1	4
RSW8228	Lead wire holder	4	1,5
RSW8311K2	Spool holder	1	1
RSW8313	Screw	1	1
RSW8317	Spacer	1	1
RSW8321	Signal lever	1	3
RSW8322	Red signal	1	3
RSW8326	Spool holder	1	1
RSW8328	Screw	1	1
RSW8341	Collar	2	4
RSW8343K2	Disk	1	4
RSW8351K2	Switch	1	4
RSW8358	Lead wire holder	2	4
RSW8361K2	Slide plate	1	4
RSW8363	Collar	1	4
RSW8364	Screw	1	4
RSW8365	Spring	1	4
RSW8371	Lead (Red)	1	1,2
RSW8372	Lead (Blue)	1	1,2
RSW8373	Lead (Black)	1	4
RSW8374	Lead (Black)	1	1,2,4

Parts No.	Description	Pcs.	Ref. Page
RSW8375	Lead (Black)	1	1,4
RSW8411K2	Base plate	1	5
RSW8413	Shaft	1	4
RSW8414	Screw	1	4
RSW8415K2	Winding gear No.2	1	4
RSW8421K2	Winding stop gear	1	4
RSW8427	Winding gear No.3	1	4
RSW8431	Film take up spool	1	4
RSW8432	Nut	1	4
RSW8435	Bottom cover	1	1
RSW8441K2	Charging lever	1	4
RSW8444	Spring	1	4
RSW8446K2	Lever	1	3
RSW8448	Tube	1	3
RSW8451K2	Plate holder	1	5
RSW8461	Exposure indicator	1	3
RSW8466	Pressure plate for 120 film	1	1
RSW8467	Pressure plate for 220 film	1	1
RSW8469	Lock plate	1	5
RSW8471	Shaft	1	5
RSW8473	Lever	1	5
RSW8475	Shaft	1	5
RSW8478	Leaf spring	1	5
RSW8481	Latch	1	3
RSW8482	Spring	1	3
RSW8483	Stopper	1	5
RSW8485	Film counter base	1	3
RSW8486	Spacer	1	3
RSW8487	Screw	2	3
aRS2156	Name plate	1	6
aRSH6111K2	Film holder frame assy.	1	6
aRSH6116	Film roller	2	6
aRSH6117	Collar	4	6
aRSH6118	Spring	4	6
aRSH6121K2	Latch	1	6

Parts No.	Description	Pcs.	Ref. Page
aRSH6123	Guide	2	6
aRSH6132	Plate	1	6
aRSH6134	Lock lever	1	6
aRSH6211K2	Back lid	1	6
aRSH6319K2	T-spring	2	5
aRSH6326	Screw	2	5
aRSH6327	T-spring base	1	5
aRSH6328	Name plate	1	5
aRSH6333	Film guide	1	5
aRSH6336	Film guide	1	5
aRSH6338-1	Light baffle	2	5
aRSH6338-2	Light baffle	2	5
aRSH6339-1	Guide plate	2	5
aRSH6339-2	Guide plate	2	5
aRSH6341K2	Roller	1	5
aRSH6345	Collar	1	5
aRSH6346	Shaft	1	5
aRSH6347K2	Roller	1	5
aRSH6419K2	Disk	1	1
aRSH6422	Spring	1	4
aRSH6424	Winding gear No.1	1	4
aRSH6453	Spring	1	4
aRSH6461K2	Release plate	1	4
aRSH6463-1	Screw	1	4
aRSH6464	Spring	1	4
aRSH6471	First gear	1	5
aRSH6472K2	Second gear	1	5
aRSH6479	Screw	1	5
aRSH6629	Mask	1	1
aRSH6641	Film spool holder	1	5
aRSH6647	Spring washer	1	1
aRSH6644	Shoulder screw	1	5
aRSH6717	Lock lever	1	6
aRSH6718	Screw	1	6
aRSH6719	Spring	1	6

Parts No.	Description	Pcs.	Ref. Page
aRSH6815	Leatherette	1	6
aRSH6973	Second small gear	1	5
aRSH6976K2	Third gear	1	5
aRSH6985K2	Auxiliary dividing disc	1	3
aRSH6993	Exposure counter plate	1	3
aRSH7119	Spring	1	3
aRSH7129	Sponge release lever	1	4
aRSH7131K2	Hook	1	3
aRSH7134	Spring	1	3
aRSH7137	Signal	1	3
aRSH7144K2	Pawl	1	3
aRSH7151	Secter gear	1	3
aRSH7153K2	Secter gear base	1	3
aRSH7159	Shaft	1	3
aRSH7168	Spring	1	3
aRSH7175	Spring	1	3
aRSH7176	Anchor	1	3
aRSH7178	Screw	1	3
RS2615	Screw	1	3
RSH6113K	Spring	1	6
RSH6126K2	Latch cover	1	6
RSH6136	Lock lever cover	1	6
RSH6138	Leatherette	1	6
RSH6212	Hinge	1	6
RSH6214	Shaft	1	6
RSH6227	Light baffle	1	6
RSH6228	Light baffle	1	6
RSH6229	Light baffle	2	6
RSH6324	Bracket	1	5
RSH6348	Shaft	1	5
RSH6413	Winding lever	1	1
RSH6414	Screw	1	1
RSH6415	Disk	1	1
RSH6442	Spring wahser	2	1,4
RSH6495	Spring	1	3

Parts No.	Description	Pcs.	Ref. Page
RSH6498	Screw	1	3
RSH6627	Counter window	1	1
RSH6636	Sealing strip	2	1
RSH6812	Leatherette	1	1
RSH6813	Leatherette	1	1
RSH6814	Leatherette	1	1
RSH6816	Leatherette	1	1
RSH6817	Name plate	1	6
RHL1116	Spring	1	6
RHL1521	Spring	1	3
A2x4	Set screw	1	1
PB1.4x1.3BNi	Screw for aRSH6118	4	6
	for aRSH6132	2	6
	for RSW8228	4	1,5
PB1.7x1.5BNi	Screw for RSW8478	1	5
PB1.7x2BNi	Screw for RSW6991	1	3
PB1.7x2.5BNi	Screw for RSW6311K2	3	5
	for RSW6993	1	3
	for RSW8221K2	2	4
PB1.7x2.5Cr	Screw for aRSH6319K2	4	5
PB1.7x3BNi	Screw for RSW6621K2	2	1
	for RSW8435	2	1
PB1.7x4BNi	Screw for RSW6621K2	2	1
	for RSW8142	2	2
	for RSW8435	2	1
PB2x2.5BNi	Screw for RSW8111K2	3	1
PB2x3.5BNi	Screw for RSW8111K2	1	1
PB2x4BNi	Screw for RSW8116K2	3	2
3PB1.4x2BNi	Screw for RSW7138K2	1	3
	for RSW8461	1	3
	for RSW8473	2	5
3PB1.4x2.5BNi	Screw for RSW8351K2	1	4
	for RSW8451K2	2	5
3PB1.7x1.5BNi	Screw for aRSH7131K2	1	3
	for aRSH7151	1	3

Parts No.	Description	Pcs.	Ref. Page
3PB1.7x2BNi	Screw for aRSH7144K2	1	3
3PB1.7x2.5BNi	Screw for RSW6411K2	1	4
3PB1.7x3BNi	Screw for aRSH6327	2	5
3PB2x3BNi	Screw for RSW8132K2	2	2
	for RSW8131	3	2
PD1.4x1.6BNi	Screw for RSW8483	1	5
PD1.4x4BNi	Screw for aRSH6111K2	11	6
PD1.7x2BNi	Screw for RSH6136	2	6
PD1.7x2.5BNi	Screw for aRSH6134	2	6
	for RSH6324	4	5
	for RSH6415	2	1
	for RSW7138K2	1	3
	for RSW8343K2	2	4
PD1.7x3BNi	Screw for RSH6212	3	6
	for RSW6411K2	1	4
	for RSW8435	1	1
PD1.7x5.5BNi	Screw for RSH6126K2	2	6
PD2x3.5BNi	Screw for RSW8111K2	5	2
PD2x4BNi	Screw for aRSH6346	2	5
	for RSH6348	2	5
3PD1.7x2.5BNi	Screw for RSW6311K2	3	5
3PD1.7x3BNi	Screw for RSW6411K2	2	4
3PD1.7x6BNi	Screw for RSW8135	1	2
TPD2x4.5BNi	Screw for aRSH6333	2	5
	for RSW6334	2	5
	for RSW6335	2	5
	for aRSH6336	2	5
3N2BNi	Nut	1	4
3N3	Nut	1	2
2.8W1.4x0.3	Washer	3	5
4W2x0.1	Washer	2	2
6W3x0.2	Washer	1	4
8W4x0.1	Washer	2	5,4

Power Drive Control Pack (RSW 8500) for Mamiya RB

Parts No.	Description	Pcs.	Ref. Page
RSW8511K2	Battery chamber	1	2
RSW8513	Mounting screw	1	2
RSW8515	Locking key	1	2
RSW8516	Screw	2	2
RSW8517	Click pin	1	2
RSW8518	Spring	1	2
RSW8519	Stud	1	2
RSW8525K2	Guide pin plate	2	2
RSW8527	Cover	1	2
RSW8528	Cover	1	2
RSW8529	Bottom plate	1	2
RSW8531	Contact	3	2
RSW8535K2	Contact	3	2
RSW8541	Cover	1	2
RSW8542	Disk	1	2
RSW8544	Locking screw	1	2
RSW8546	Switch cover	1	2
RSW8548	Lead wire holder	1	2
RSW8551K2	Plate	1	1
RSW8553K2	Shutter release lever	1	1
RSW8555	Screw	2	1
RSW8556K2	First lever	1	1
RSW8557	Screw	1	1
RSW8558	Screw	1	1
RSW8559	Spring	1	1
RSW8561K2	Stop lever	1	1
RSW8567	Second lever	1	1
RSW8568	Shaft	2	1
RSW8569	Spring	1	1
RSW8571K2	Third lever	1	1
RSW8574	Spring	1	1
RSW8575	Tube	1	1
RSW8576K2	Lever	1	1
RSW8583	Spring	1	1
RSW8591K2	Lever	1	1

Parts No.	Description	Pcs.	Ref. Page
RSW8596	Spring	1	1
RSW8598	Stopper	1	1
RSW8614	Armature	1	1
RSW8615	Screw	1	1
RSW8621	Cover	1	1
RSW8628	Power switch	1	2
RSW8629	Power source plug	1	2
RSW8631	Switch	1	1
RSW8636K	Printed board	1	2
RSW8641	Plate	1	2
RSW8651	Lead (Red)	1	2
RSW8652	Lead (Blue)	1	2
RSW8653	Lead (Green)	2	1
RSW8654	Lead (Black)	2	2
RSW8655	Lead (Brown)	2	1
RSW8656	Lead (Purple)	1	2
RSW8657	Lead (Purple)	1	2
RSW8658	Lead (Gray)	1	2
RSW8659	Lead (Gray)	1	2
CSL1695S1	Magnet	1	1
EFC4023	Tripod socket adapter 1/4"	1	2
EFC4024	Screw	1	2
PB1.4x2.5BNi	Screw for RSW8561K2	1	1
	for RSW8576K2	1	1
	for RSW8591K2	1	1
PB1.4x3.5BNi	Screw for CSL1695S1	1	1
PB1.7x2.5BNi	Screw for RSW8548	2	2
PB1.7x3BNi	Screw for RSW8598	2	1
	for RSW8641	1	2
PB1.7x3.5BNi	Screw for RSW8636K	2	2
PB1.7x6BNi	Screw for RSW8546	2	2
PB2x3BNi	Screw for RSW8631	2	1
PD1.7x2.5BNi	Screw for RSW8528	2	2
PD1.7x3BNi	Screw for RSW8542	4	2
PD1.7x3.5BNi	Screw for RSW8531	3	2

Parts No.	Description	Pcs.	Ref. Page
PD1.7x4BNi	Screw for RSW8525K2	4	2
	for RSW8535	1	2
	for RSW8551K2	3	1
PD1.7x5BNi	Screw for RSW8621	4	1
CE-6	CE Ring	1	2
N1.7	Nut	4	2
2.5W1.5x0.2	Washer	1	1
2.8W1.4x0.2	Washer	2	1
3W1.5x0.2	Washer	1	1

Specifications

Film used:	120 or 220 roll film by interchanging the pressure plate.
Negative size:	6x7 cm
No. of exposures per roll:	10 exposures on 120 film. 20 exposures on 220 film.
Film advance:	Motorized. Automatic double exposure prevention. Film wind-stop automatic release. Multiple exposure provision. Manual film advance also possible.
Film counter:	Automatic resetting type. Red mark disappears when film is wound.
Operation mode:	Single frame advance with each operation of the shutter cocking lever.
Film advance time:	Approx. 0.8sec. per frame.
Power source:	Six AA-size manganese or alkaline batteries (not included).
No. of rolls of film per set of batteries (normal temperature, 120 film, Mamiya test conditions):	Manganese batteries: Approx. 60 rolls. Alkaline batteries: Approx. 150 rolls.
Others:	The Roll Film Power Drive is provided with a dark slide safety catch and film memo pocket. The Power Drive Control Pack has a tripod socket and cable release socket.

Mamiya

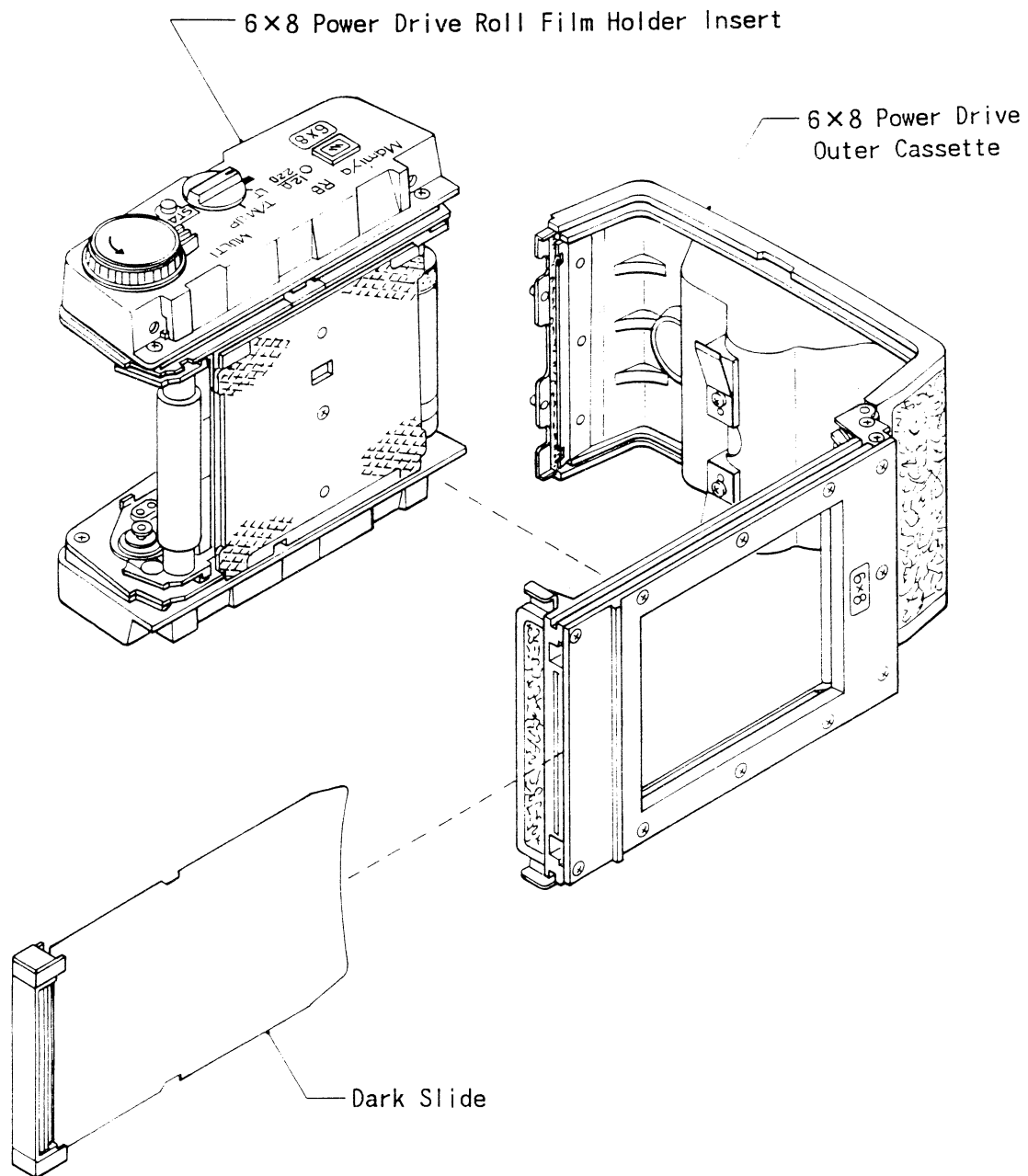
PARTS CATALOG

RB67 PRO*S*

6X8 Power Drive Roll Film Holder (120/220)

RB67^{PRO}S

6X8 Power Drive Roll Film Holder (120/220)



RB67^{PRO}S

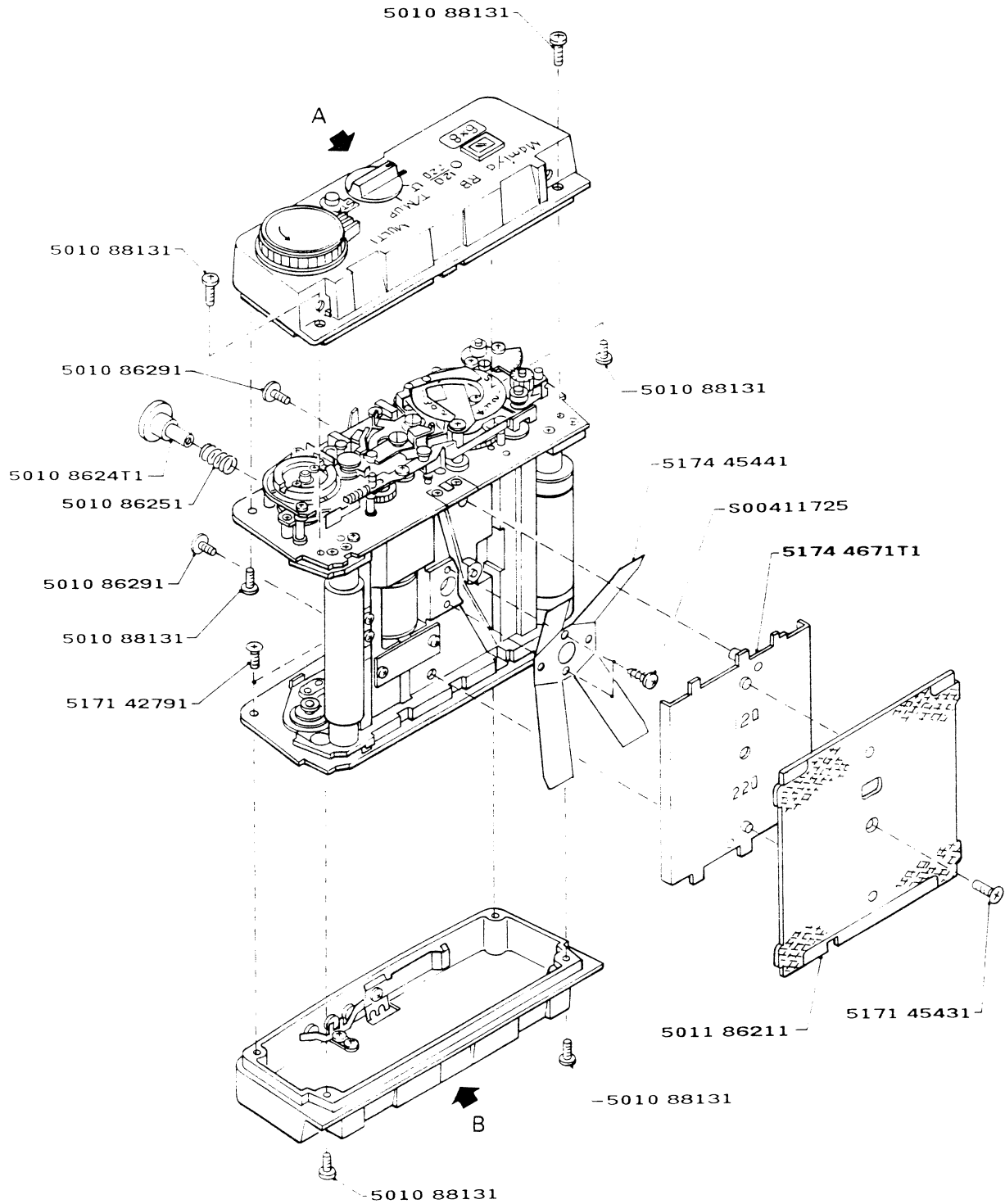
6X8 Power Drive Roll Film Holder (120/220)

6X8 Power Drive Roll Film Holder Insert

6X8 Power Drive Roll Film Holder Insert Ass'y 1...	34
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6X8 Power Drive Roll Film Holder Insert Ass'y 3...	36
6X8 Power Drive Roll Film Holder Insert Ass'y 4...	37
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6X8 Power Drive Outer Cassette

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PARTS LIST

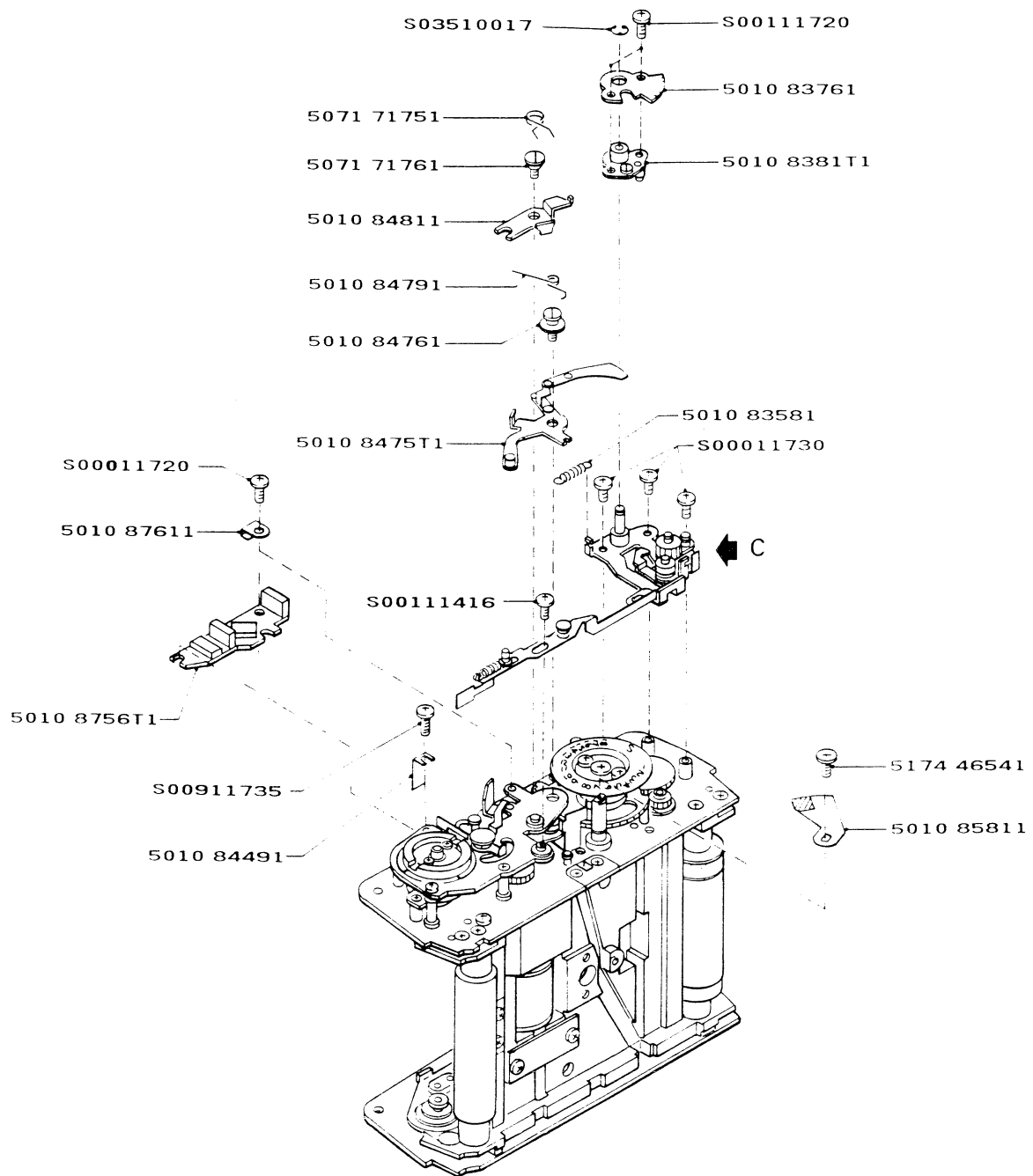
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Parts No.	Common Use Parts No.	QTY.	Description	部 品 名 称
5011 86211		1	Pressure plate (6×8)	圧板(6×8用)
5010 8624T1		1	Shaft	圧板軸受
5010 86251		1	Spring	圧板軸バネ
5010 86291		2	Screw	止ネジ
5010 88131		6	Screw (PB1.7×4.5)	止ネジ
5171 42791		2	Screw (PD1.7×3.5)	止ネジ
5171 45431		1	Screw (PD2×4)	止ネジ
5174 45441		1	Leaf spring	圧板受板バネ
5174 4671T1		1	Holder	圧板受
S00411725	(TB1.7×2.5)	2	Screw	止ネジ

※ DETAIL“A” Top Cover Ass’y Page 39
 ※ DETAIL“B” Bottom Cover Ass’y Page 40

Remarks

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PARTS LIST

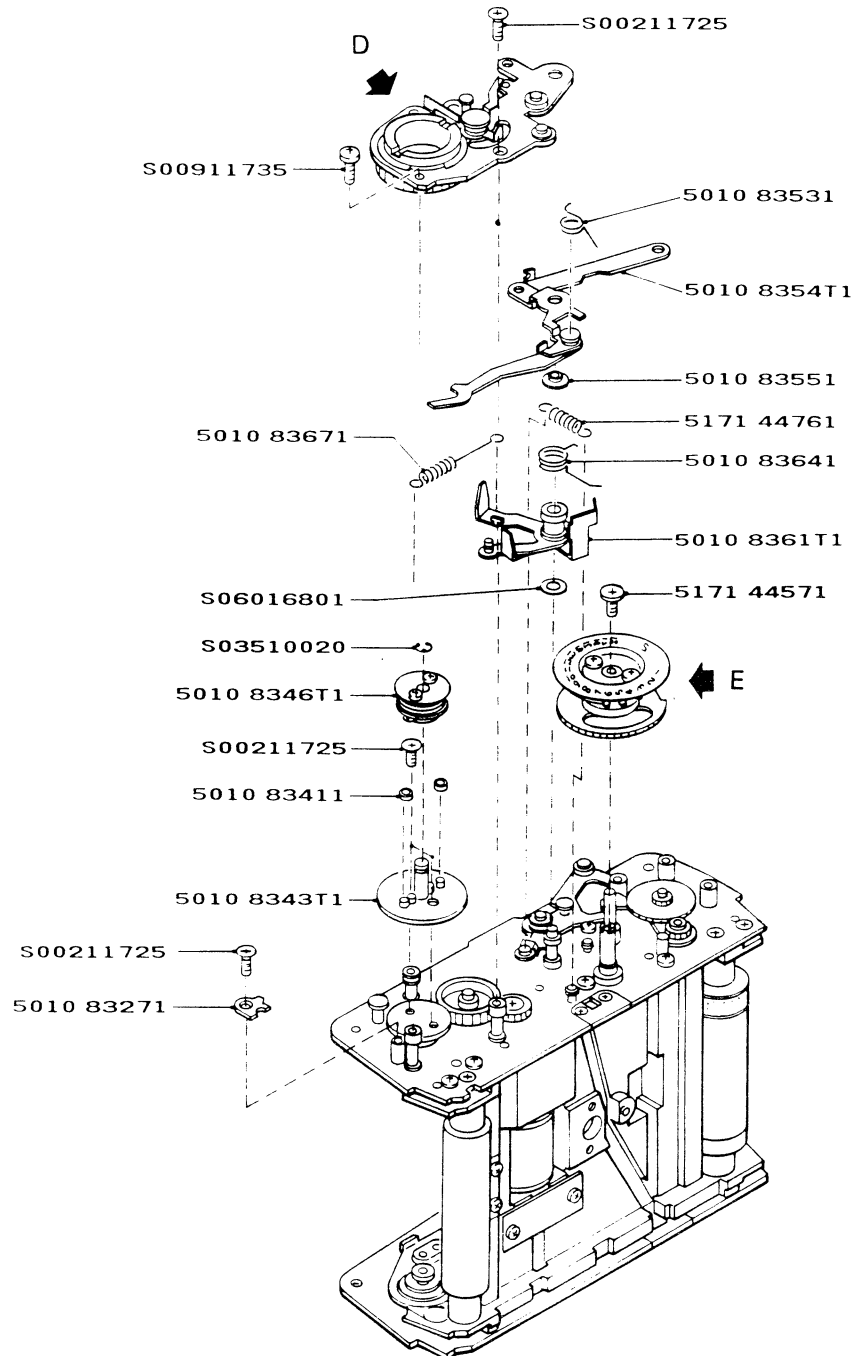
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Parts No.	Common Use Parts No.	QTY.	Description	部 品 名 称
5010 83581		1	Spring	コネクターバネ
5010 83761		1	Sector gear	扇歯車
5010 838171		1	Sector gear base	扇歯車座板
5010 84491		1	Holder	コード押え
5010 847571		1	S lever	S 駆動レバー
5010 84761		1	Shoulder screw	S 駆動レバー軸
5010 84791		1	Spring	巻止スイッチバネ
5010 84811		1	Signal lever	S レバー
5010 85811		1	Signal plate	表示板
5010 875671		1	Switch plate	スイッチ基板
5010 87611		1	Holder	基板押え
5071 71751		1	Spring	S レバーバネ
5071 71761		1	Shoulder screw	S レバーバネ軸
5174 46541		1	Screw	止ネジ
S00011720	(PB1.7 × 2)	1	Screw	止ネジ
S00011730	(PB1.7 × 3.0)	3	Screw	止ネジ
S00111416	(3PB1.4 × 1.6)	1	Screw	止ネジ
S00111720	(3PB1.7 × 2)	2	Screw	止ネジ
S00911735	(4PB1.7 × 3.5)	1	Screw	止ネジ
S03510017	(E-17)	1	E-ring	止リング

※ DETAIL "C" Preventive Lever Ass'y Page 40

Remarks

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PARTS LIST

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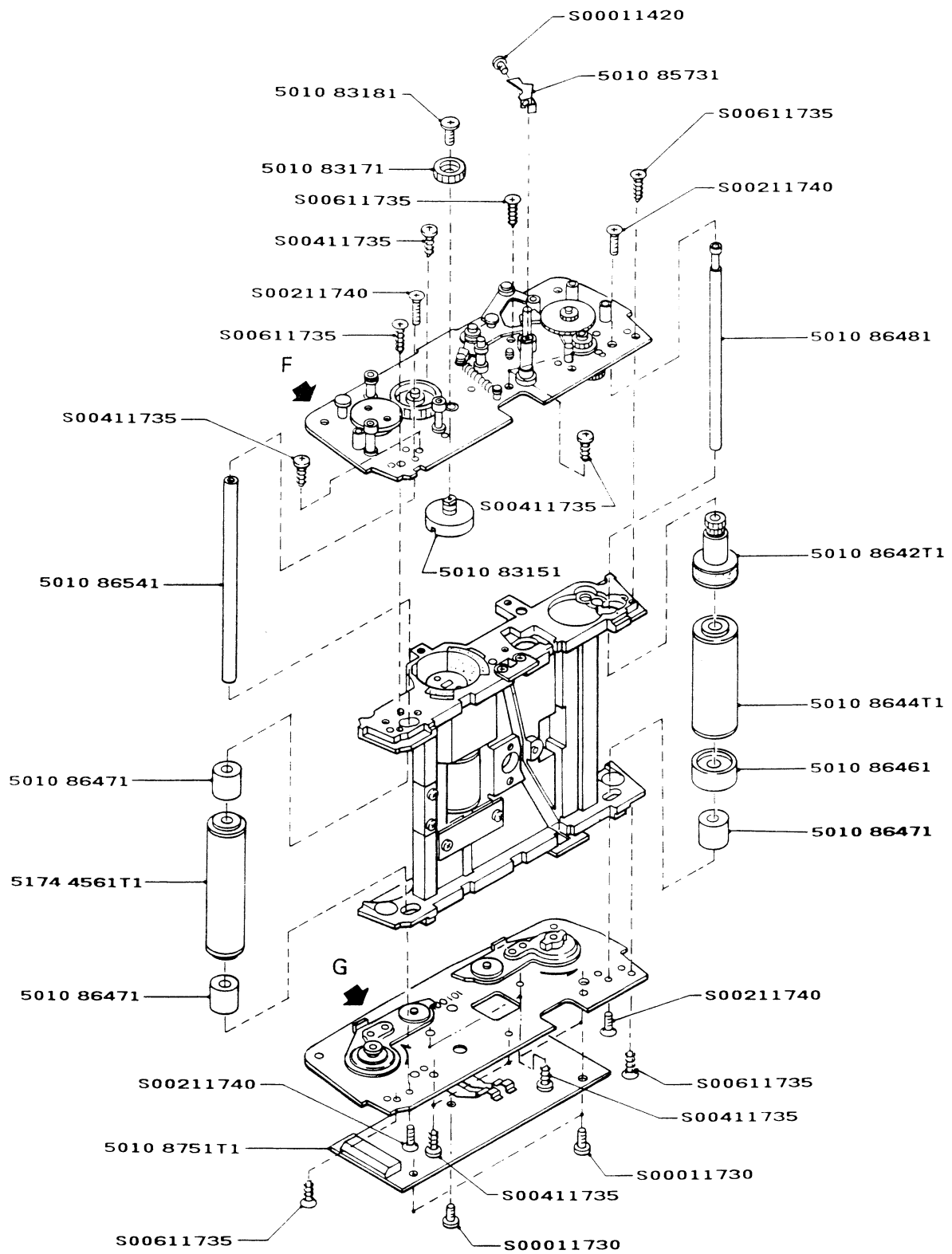
Parts No.	Common Use Parts No.	QTY.	Description	部 品 名 称
5010 83271		1	Stopper	ストッパー
5010 83411		2	Collar	チャージコロ
5010 8343T1		1	Disk	チャージコロ座
5010 8346T1		1	Friction drive Ass'y	クラッチ筒Ass'y
5010 83531		1	Spring	縦レバーバネ
5010 8354T1		1	Charging lever	縦レバー
5010 83551		1	Collar	縦レバー軸
5010 8361T1		1	Release lever	巻止レバー
5010 83641		1	Spring	巻止レバーバネ
5010 83671		1	Spring	巻止解除レバー
5171 44571		1	Screw	止ネジ
5171 44761		1	Spring	解除板バネ
S00211725	(PD1.7 × 2.5)	4	Screw	止ネジ
S00911735	(4PB1.7 × 3.5)	1	Screw	止ネジ
S03510020	(E-20)	1	E-ring	止リング
S06016801	(8W4 × 0.1)	1	Washer	ワッシャ

※ DETAIL "D" Winding Base Plate Ass'y Page 41

※ DETAIL "E" Exposure Counter Disk Ass'y Page 41

Remarks

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PARTS LIST

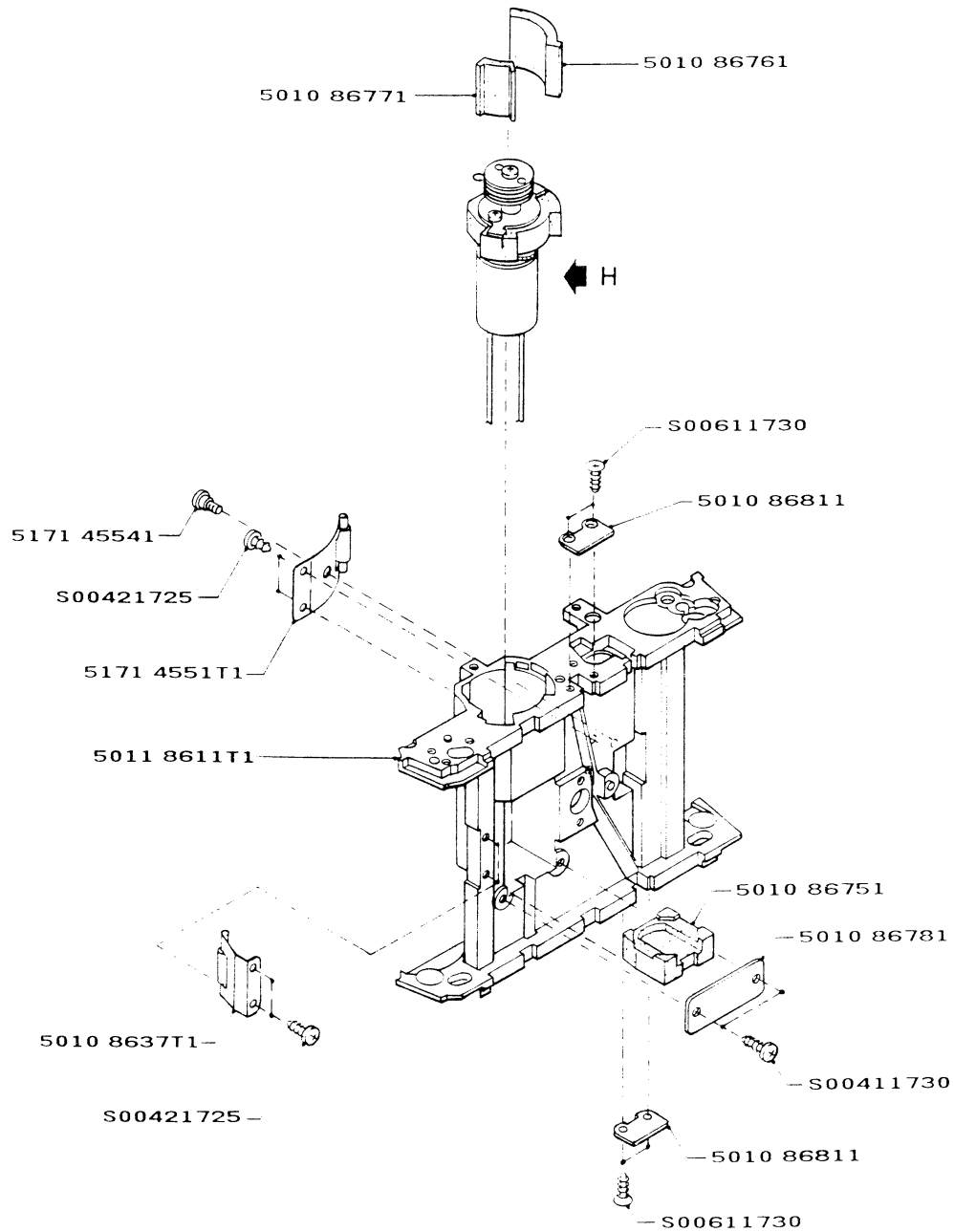
2	37
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Parts No.	Common Use Parts No.	QTY.	Description	部 品 名 称
5010 83151		1	Motor clutch hub	モータクラッチ軸
5010 83171		1	Motor gear	モータ歯車
5010 83181		1	Screw	止ネジ
5010 85731		1	Select lever	切替レバー
5010 8642T1		1	E-counter roller	数取りローラー
5010 8644T1		1	Roller	繰出ローラー
5010 86461		1	Collar	繰出ローラーコロ
5010 86471		3	Collar	コロ
5010 86481		1	Shaft	繰出ローラー軸
5010 86541		1	Shaft	巻取りローラー軸
5010 8751T1		1	PC board	回路基板
5174 4561T1		1	Roller	巻取りローラー
S00011420	(PB1.4 × 2)	1	Screw	止ネジ
S00011730	(PB1.7 × 3)	3	Screw	止ネジ
S00211740	(PD1.7 × 4)	4	Screw	止ネジ
S00411735	(TB1.7 × 3.5)	9	Screw	止ネジ
S00611735	(TD1.7 × 3.5)	5	Screw	止ネジ

※ DETAIL“F” Winding Base Plate Ass’y Page 42
 ※ DETAIL“G” Bottom Plate Ass’y Page 43

Remarks

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PARTS LIST

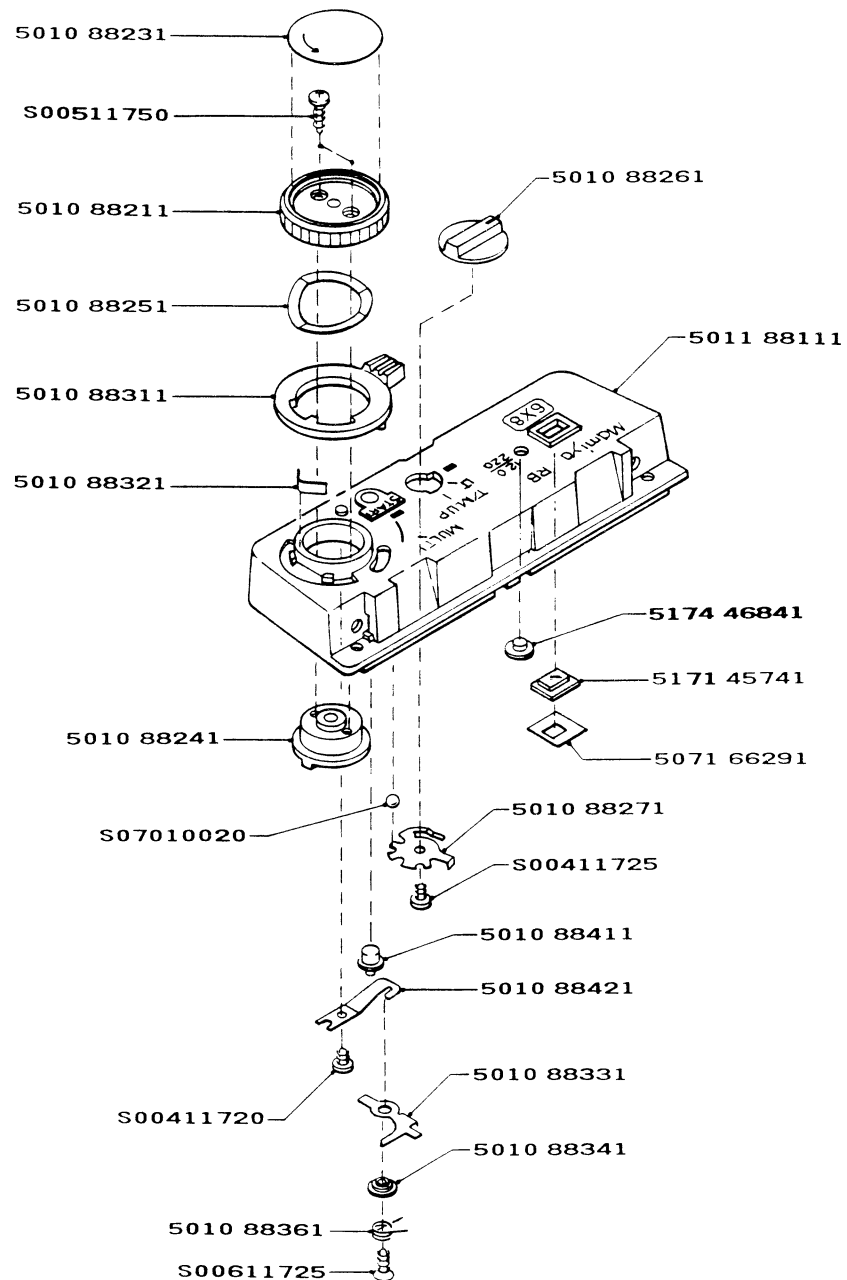
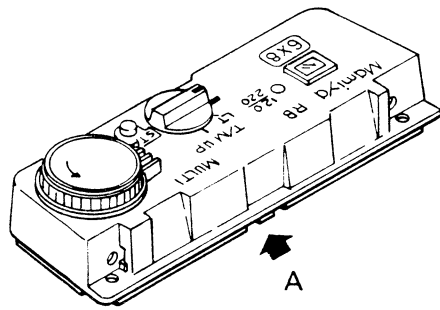
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Parts No.	Common Use Parts No.	QTY.	Description	部 品 名 称
5011 8611T1		1	Main frame	支え枠
5010 8637T1		1	SP-spring (LH)	左 S P バネ
5010 86751		1	Rubber A	モータ支持ゴム A
5010 86761		1	Rubber B	モータ支持ゴム B
5010 86771		1	Rubber C	モータ支持ゴム C
5010 86781		1	Holder plate	モータゴム止板
5010 86811		2	Plate	コード止板
5171 4551T1		1	SP-spring (RH)	右 S P バネ
5171 45541		1	Shoulder screw	右 S P バネ押え
S00411730	(TB1.7 × 3)	2	Screw	止ネジ
S00421725	(TB1.7 × 2.5Cr)	4	Screw	止ネジ
S00611730	(TD1.7 × 3)	4	Screw	止ネジ

※ DETAIL "H" Motor Mechanism Ass'y Page 43

Remarks

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DETAIL A

PARTS LIST

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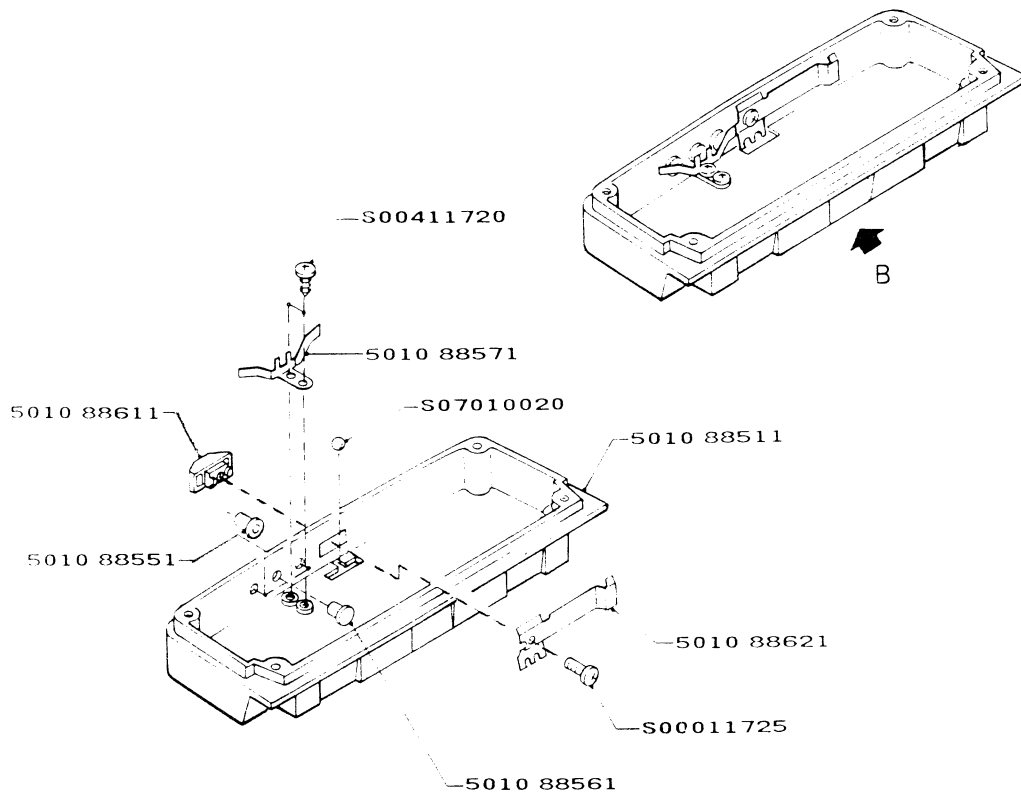
Parts No.	Common Use Parts No.	QTY.	Description	部 品 名 称
5011 88111		1	Top cover	上カバー
5010 88211		1	Film advance knob	巻上ノブ
5010 88231		1	Disk	巻上ノブ蓋
5010 88241		1	Hub	巻上ノブ座
5010 88251		1	Spring washer	巻上ノブワッシャ
5010 88261		1	Select knob	切替つまみ
5010 88271		1	Leaf spring	切替つまみバネ
5010 88311		1	Multi knob	マルチつまみ
5010 88321		1	Leaf spring	マルチバネ
5010 88331		1	Multi lever	マルチレバー
5010 88341		1	Hub	マルチレバー軸
5010 88361		1	Spring	マルチレバーバネ
5010 88411		1	Start button	スタート釦
5010 88421		1	Leaf spring	スタート釦バネ
5071 66291		1	Mask	カウンター窓マスク
5171 45741		1	Window	カウンター窓
5174 46841		1	Window	表示窓
S00411720	(TB1.7×2)	1	Screw	止ネジ
S00411725	(TB1.7×2.5)	1	Screw	止ネジ
S00511750	(3TB1.7×5)	2	Screw	止ネジ
S00611725	(TD1.7×2.5)	1	Screw	止ネジ
S07010020	(B020)	1	Steel ball (φ2)	クリックボール

Remarks

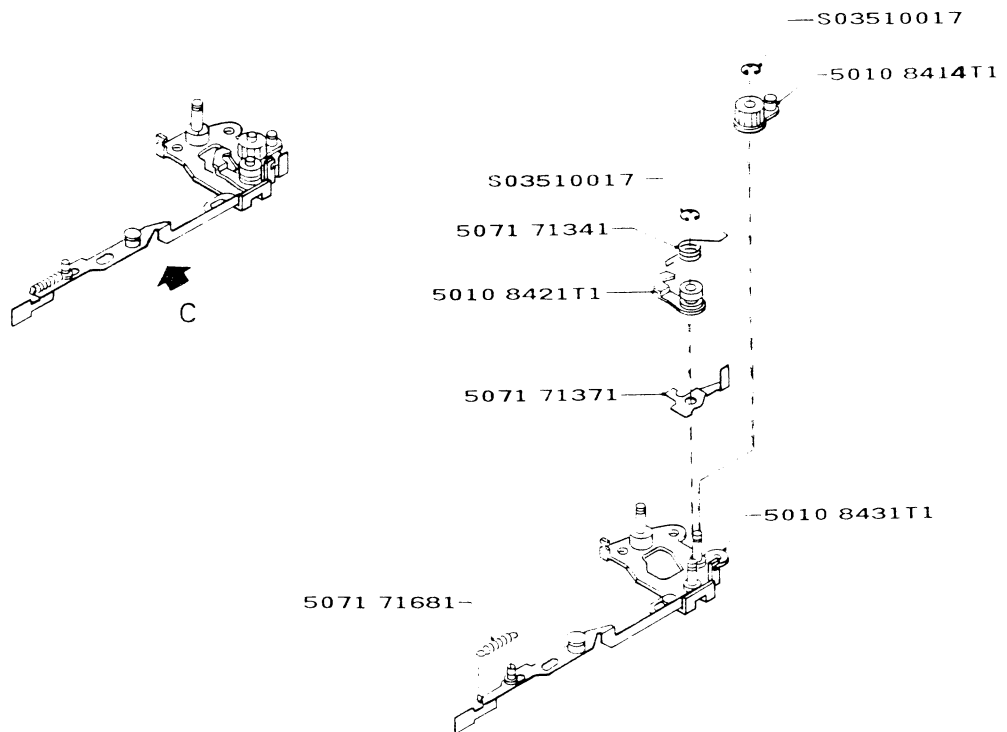
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DETAIL "B" Bottom Cover Ass'y & "C" Preventive Lever Ass'y

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DETAIL B



DETAIL C

PARTS LIST

2 40

Parts No.	Common Use Parts No.	QTY.	Description	部 品 名 称
5010 88511		1	Bottom cover	下カバー
5010 88551		2	BC button	B C 釦
5010 88561		1	BC window	B C 窓
5010 88571		1	Leaf spring	B C バネ
5010 88611		1	Power switch knob	電源つまみ
5010 88621		1	Leaf spring	電源つまみバネ
S00011725	(PB1.7×2.5)	1	Screw	止ネジ
S00411720	(TB1.7×2)	2	Screw	止ネジ
S07010020	(B020)	1	Steel ball	クリックボール

5010 8414T1		1	Hook gear	フック歯車
5010 8421T1		1	Hook	フック
5010 8431T1		1	Preventive lever Ass'y	横レバーAss'y
5071 71341		1	Spring	フックバネ
5071 71371		1	Signal plate	シグナル受
5071 71681		1	Spring	横レバーバネ
S03510017	(E-17)	2	E-ring	止リング

Remarks

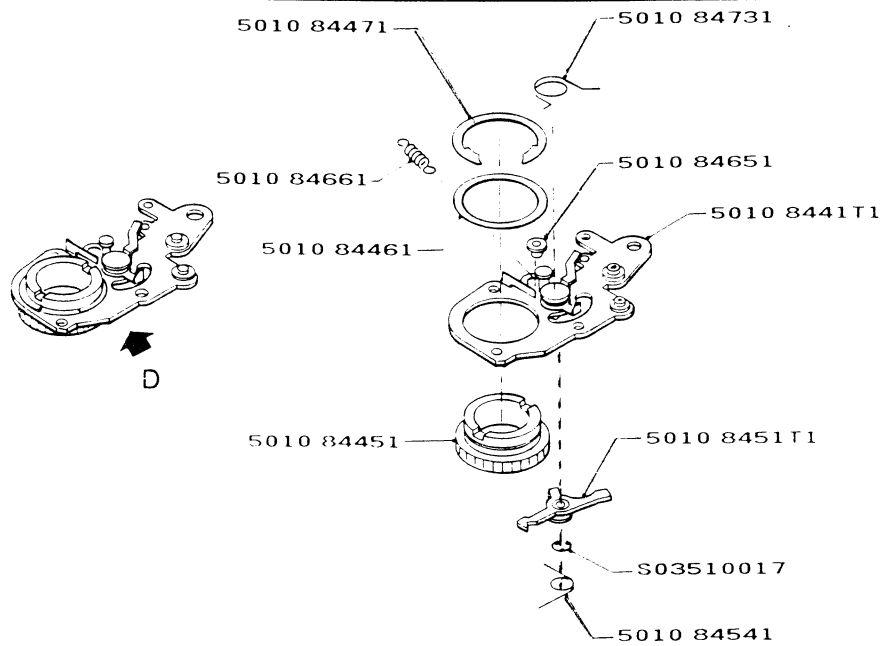
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DETAIL "D" Winding Base Plate Ass'y

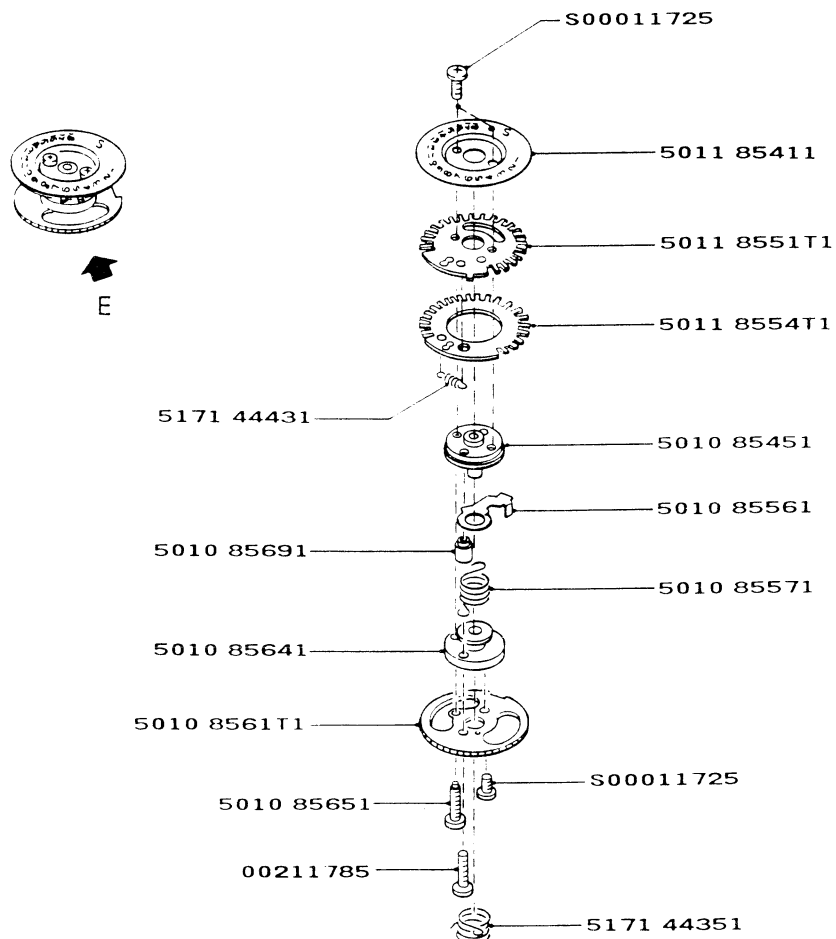
& "E" Exposure Counter Disk Ass'y

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DETAIL D



DETAIL E

PARTS LIST

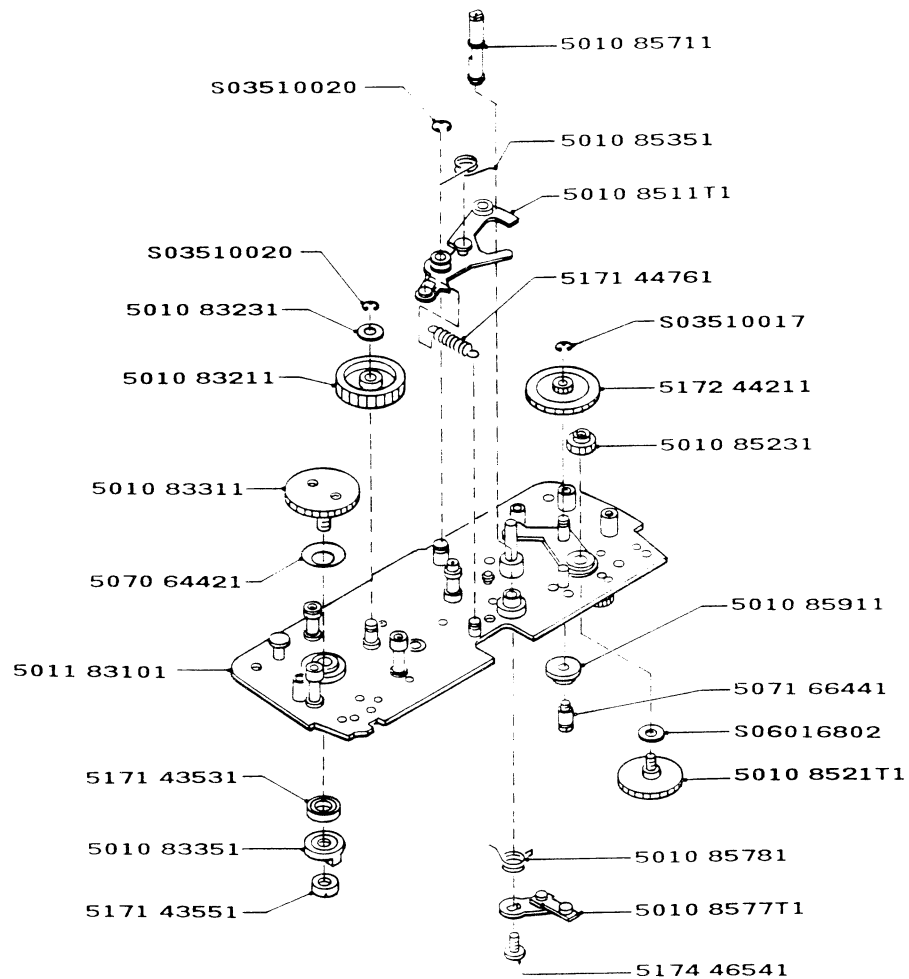
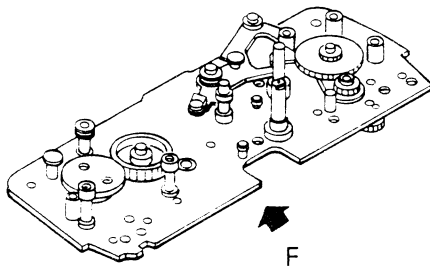
2 41

Parts No.	Common Use Parts No.	QTY.	Description	部 品 名 称
5010 8441T1		1	Winding base plate	巻上基板
5010 84451		1	Winding stop gear	巻止爪歯車
5010 84461		1	Washer	巻止爪歯車ワッシャ
5010 84471	(CE-18)	1	Stop ring	巻止爪歯車止リング
5010 8451T1		1	Stop lever	第2巻止レバー
5010 84541		1	Spring	第2巻止レバーバネ
5010 84651		1	Hub	連結レバーハブ
5010 84661		1	Spring	連結レバーバネ
5010 84731		1	Spring	O F Fレバーバネ
S03510017	(E-17)	1	E-ring	止リング

5011 85411		1	Exposure counter	数字板
5011 8551T1		1	E-counter dividing disk	割出板
5011 8554T1		1	Auxiliary dividing disk	割出補助板
5010 85451		1	Hub	数字台
5010 85561		1	Hook	割出板掛金
5010 85571		1	Spring	割出板掛金バネ
5010 8561T1		1	Film counter gear	第4歯車
5010 85641		1	Hub	第4歯車台
5010 85651		1	Screw	第4歯車台結合柱
5010 85691		1	Collar	第4歯車止ネジカラー
5171 44431		1	Spring	割出板バネ
5171 44351		1	Spring	割出板戻しバネ
S00011725	(PB1.7 × 2.5)	3	Screw	止ネジ
00211785	(PD1.7 × 8.5)	1	Screw	止ネジ

Remarks

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DETAIL F

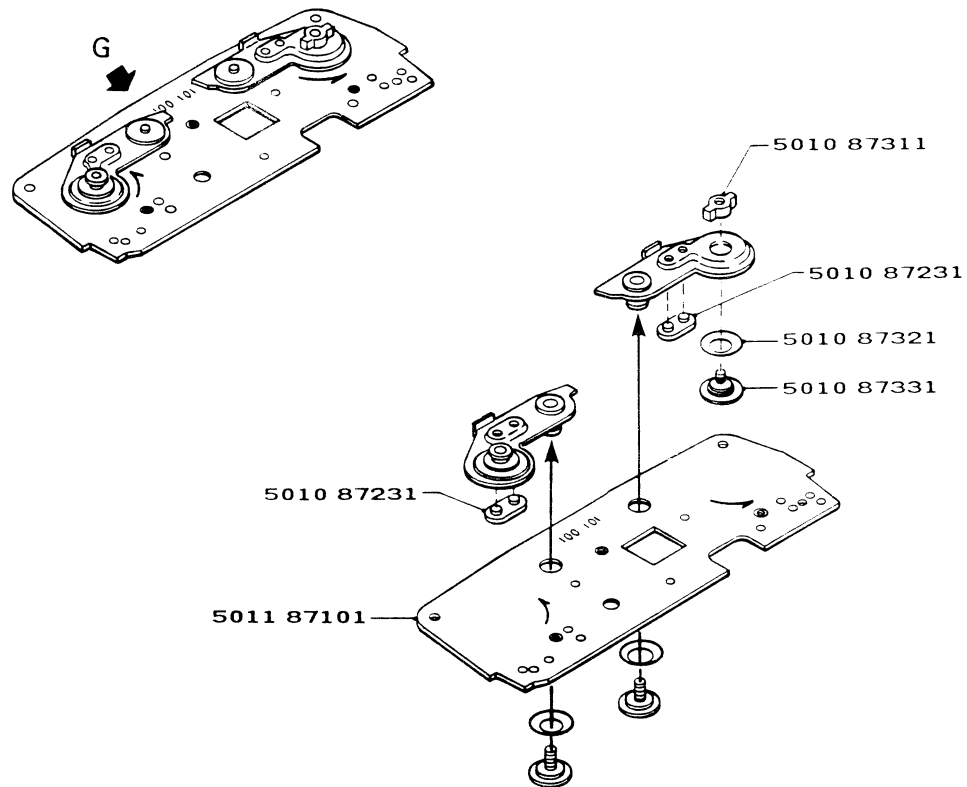
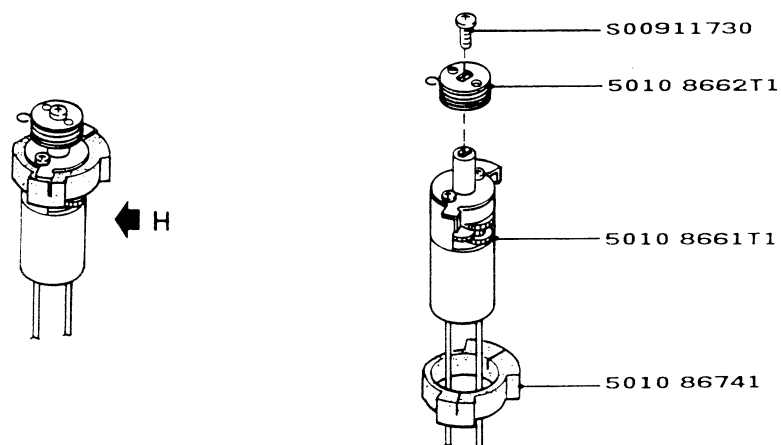
PARTS LIST

2 42

Parts No.	Common Use Parts No.	QTY.	Description	部 品 名 称
5011 83101		1	Winding base plate	上基板
5010 83211		1	Middle gear	中間歯車
5010 83231		1	Washer	中間歯車ワッシャ
5010 83311		1	Winding gear	巻上歯車
5010 83351		1	Film spool holder	スプールクラッチ
5010 851171		1	Release lever	解除板
5010 852171		1	No.2 gear	第2大歯車
5010 85231		1	No.2 gear	第2小歯車
5010 85351		1	Spring	歯車台板バネ
5010 85711		1	Shaft	切替軸
5010 857771		1	Select lever	切替アーム
5010 85781		1	Spring	切替アームバネ
5010 85911		1	Spool holder	スプール受
5070 64421		1	Spring washer	巻上歯車バネ
5071 66441		1	Shoulder screw	スプール受軸
5171 43531		1	Antifriction	巻上歯車ベアリング
5171 43551		1	Nut	ナット
5171 44761		1	Spring	解除板バネ
5172 44211		1	No.3 gear	第3歯車
5174 46541		1	Screw	止ネジ
S03510017	(E-17)	1	E-ring	止リング
S03510020	(E-20)	2	E-ring	止リング
S06016802	(8W4×0.2)	1	Washer	ワッシャ

Remarks

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**DETAIL G****DETAIL H**

PARTS LIST

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Parts No.	Common Use Parts No.	QTY.	Description	部 品 名 称
5011 87101		1	Bottom plate	下基板
5010 87231		2	Holder	受板台
5010 87311		1	Spool holder	負荷スプール受
5010 87321		1	Spring washer	負荷バネ
5010 87331		1	Holder	負荷バネ受
5010 87341		1	Washer	負荷バネワッシャ

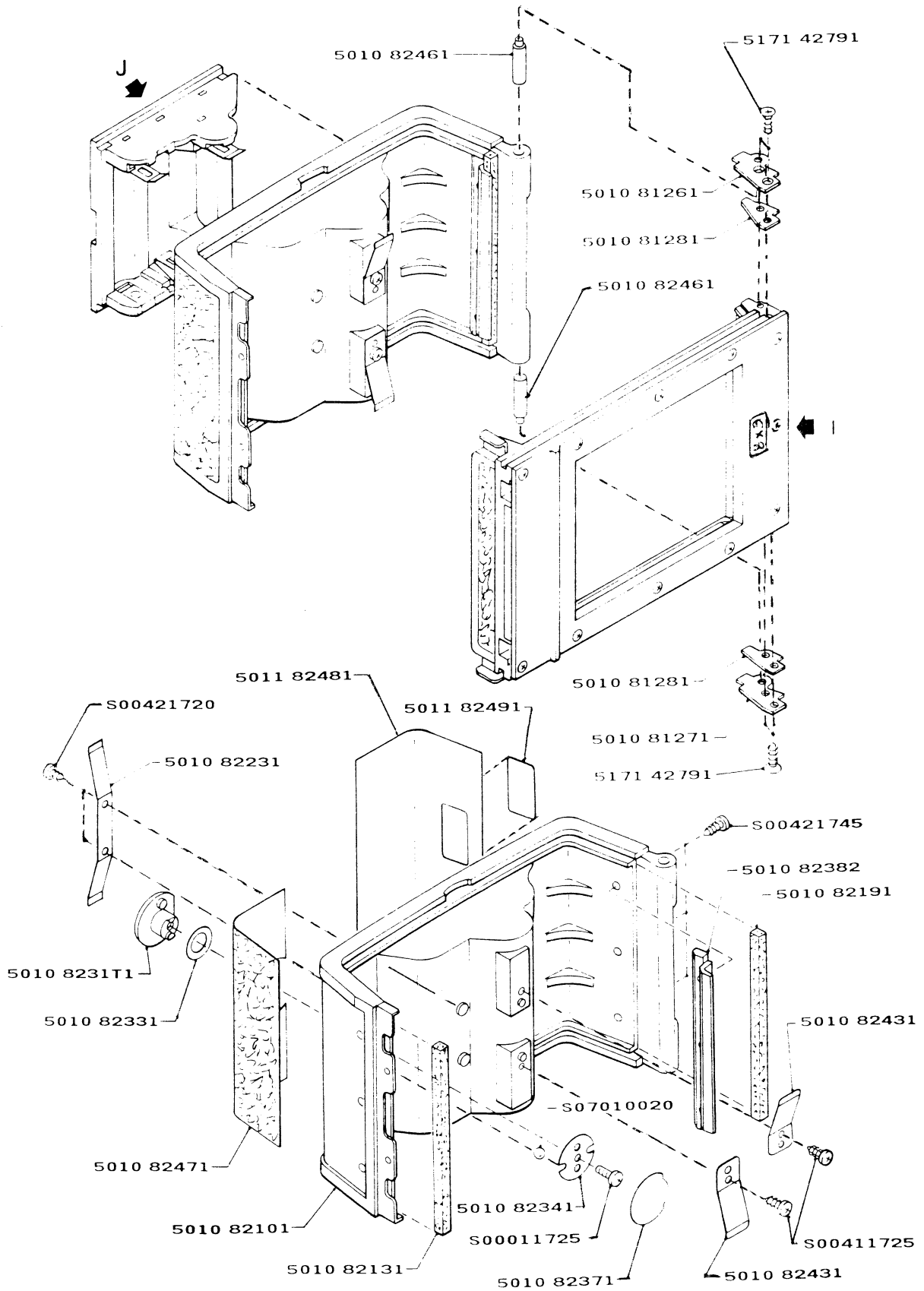
5010 8661T1		1	Motor Ass'y	モータAss'y
5010 8662T1		1	Friction drive Ass'y	モータクラッチ筒
5010 86741		1	Rubber	モータ支持ゴム
S00911730	(4PB1.7×3)	1	Screw	止ネジ

Remarks

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6X8 Power Drive Outer Cassette Ass'y

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PARTS LIST

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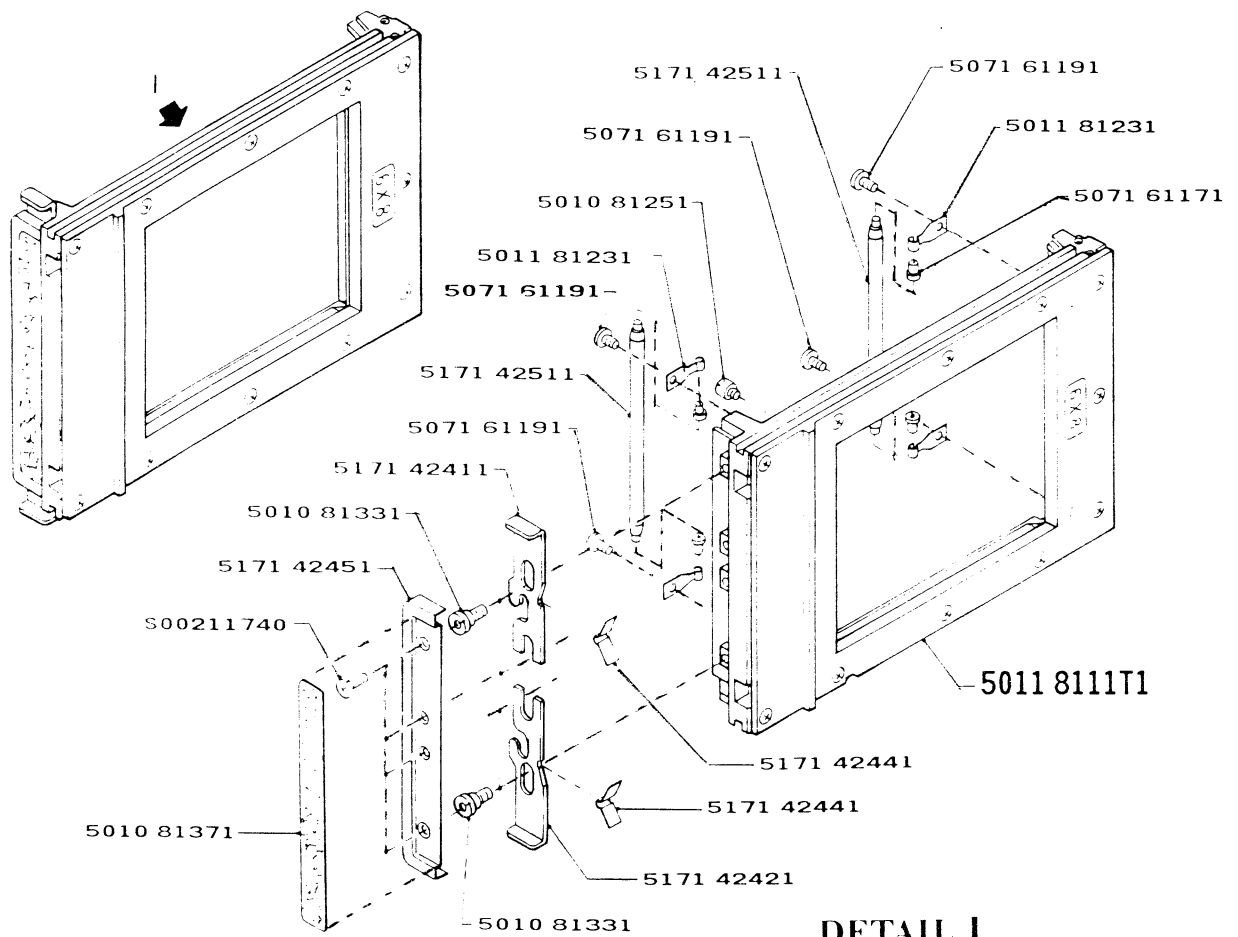
Parts No.	Common Use Parts No.	QTY.	Description	部 品 名 称
5010 81261		1	Hinge holder U	上ヒンジ
5010 81271		1	Hinge holder L	下ヒンジ
5010 81281		2	Hinge plate	ヒンジ板
5010 82461		2	Shaft	裏蓋芯金
5171 42791		4	Screw	止ネジ
5011 82481		1	Leatherette L	裏蓋革(左)
5011 82491		1	Seal (6×8)	6×8 種別板
5010 82101		1	Back cover Ass'y	裏蓋Ass'y
5010 82131		1	Sealing strip	セキ板モルト
5010 82191		1	Sealing strip	裏蓋モルト
5010 82231		1	Leaf spring	電池ケースバネ
5010 823171		1	Lock knob	電池ケースロックつまみ
5010 82331		1	Washer	ワッシャ
5010 82341		1	Spring washer	電池ケースロックバネ
5010 82371		1	Disk	電池ケースロック蓋
5010 82382		1	Cover	蝶番板
5010 82431		2	Leaf spring	支え枠バネ
5010 82471		1	Leatherette R	裏蓋革(右)
S00011725	(PB1.7×2.5)	1	Screw	止ネジ
S00421720	(TB1.7×2Cr)	2	Screw	止ネジ
S00421730	(TB1.7×3Cr)	2	Screw	止ネジ
S00421745	(TB1.7×4.5Cr)	3	Screw	止ネジ
S07010020	(B020)	1	Steel ball (φ2)	クリックボール

※ DETAIL "I" Film Holder Frame Ass'y Page 45

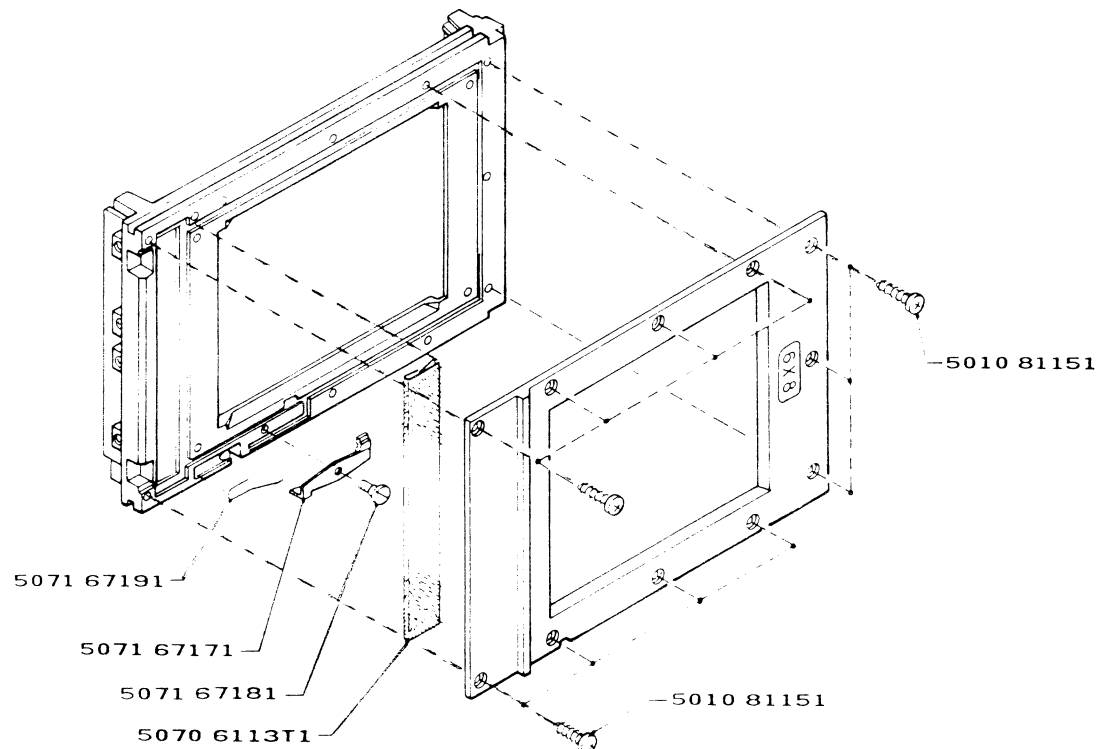
※ DETAIL "J" Battery Case Ass'y Page 45

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DETAIL I



5011 8111T1

PARTS LIST

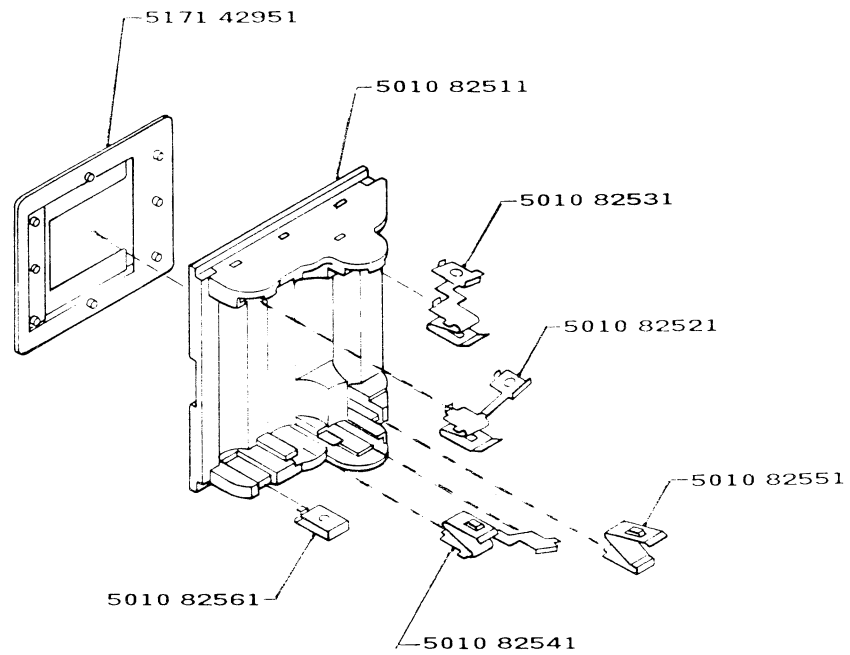
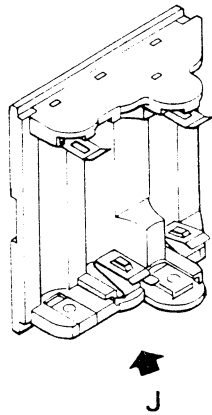
2 45

Parts No.	Common Use Parts No.	QTY.	Description	部 品 名 称
5011 8111T1		1	Film holder frame Ass'y	上台板Ass'y
5011 81231		4	Spring	F ローラーバネ
5010 81251		1	Screw	位置決めネジ
5010 81331		4	Guide screw	引手ガイド
5010 81371		1	Leatherette	引手革
5171 42411		1	Latch U	引手(上)
5171 42421		1	Latch L	引手(下)
5171 42441		2	Leaf spring	引手バネ
5171 42451		1	Cover	引手カバー
5171 42511		2	Roller	F ローラ
5071 61171		4	Collar	F ローラー受
5071 61191		4	Screw (4PB1.7×3)	止ネジ
S00211740	(PD1.7×4)	4	Screw	止ネジ

5010 81151		11	Screw (4PB1.7×4)	止ネジ
5071 67171		1	Lock lever	引蓋ロックレバー
5071 67181		1	Shoulder screw	引蓋ロックレバー軸
5071 67191		1	Spring	引蓋ロックレバーバネ
5070 6113T1		1	Leaf spring	遮光バネ

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DETAIL J

PARTS LIST

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Parts No.	Common Use Parts No.	QTY.	Description	部 品 名 称
5010 82511		1	Battery case	電池 ケース
5010 82521		1	Contact plate A	電池 切片 A
5010 82531		1	Contact plate B	電池 切片 B
5010 82541		1	Contact plate C	電池 切片 C
5010 82551		1	Contact plate D	電池 切片 D
5010 82561		1	Contact plate E	電池 切片 E
5171 42951		1	Memo pocket	メモ ポケット

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 <u>4. Film counter mechanism</u>	
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P. Outline of electric circuit

1. Relay circuit (Fig. 1):

With the S1, S2, S4 and S5 switches (we mention them as SW1, SW2.....in following pages) being turned on, electric current passes on relay circuit.

2. Magnet circuit (Fig. 2):

Simultaneously as the S3 switch in relay circuit is turned on, the current passes on the magnet circuit.

3. Motor circuit (Fig. 3):

The shutter release button is locked by the energized magnet.

Simultaneously the current passes on the motor circuit and the motor starts and then film is advanced.

4. Resistance circuit (Fig. 4):

With the winding stopper being got into slot of the dividing device, the S4 switch is turned off so that winding film is stopped.

At the moment the motor operates as a generator so that the current flows on resistance circuit and then the motor drive is stopped.

Note: Further explanation is in the text.

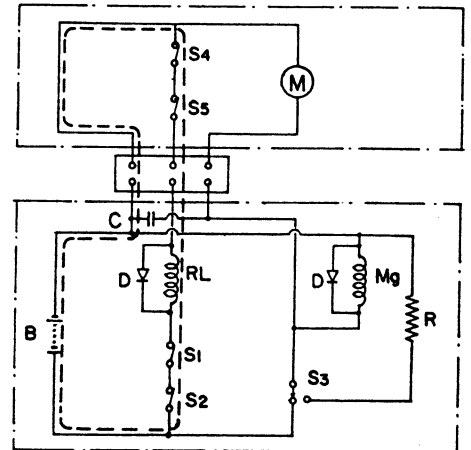


Fig.1

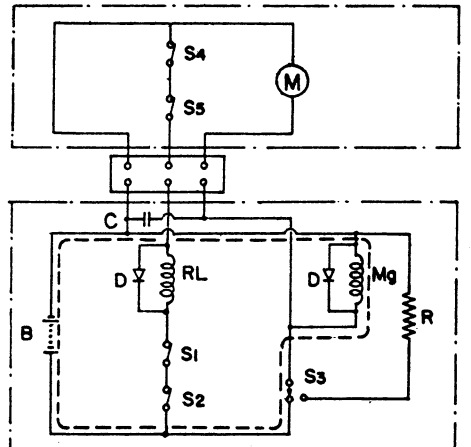


Fig.2

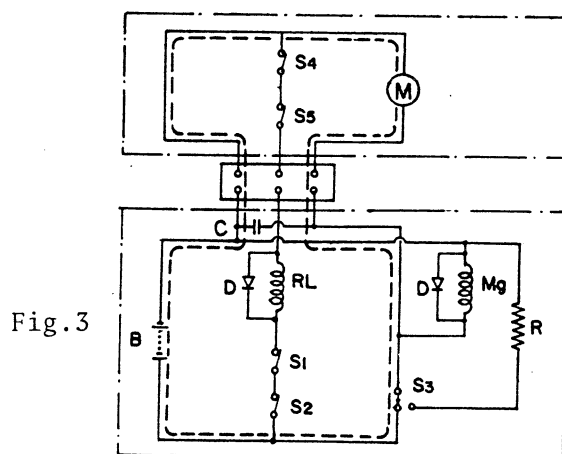


Fig.3

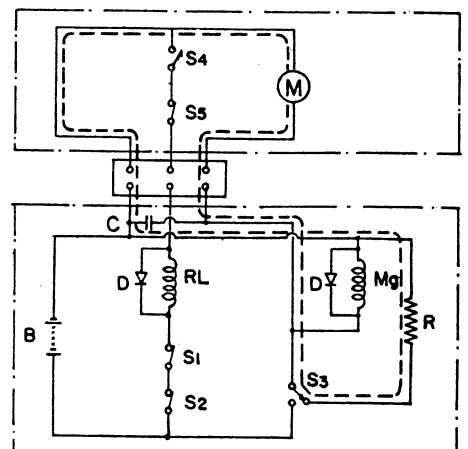


Fig.4

1. Electric circuit

1-1 When cocking the shutter cocking lever of the camera body

After turning on the power switch (SW1), with the shutter cocking lever pressed down, the RSW8576K2 No.4 lever moves in direction shown by the arrow in Fig. 5 and the PSW8571K2 No.3 lever is pressed down by it.

At this time RSW8631 starting switch (SW2) is turned on by means of the No.3 lever..

As the RSW8221K2 double switch (SW4) in the roll film power drive is on, current passes on relay circuit and the switch 3 in relay circuit turns on.

The current passes on the magnet circuit and on the motor circuit too. Now motor drive starts and film is advanced.

Note: During magnet being energized, the shutter release button can be locked so the safety lock device prevents the shutter being released.

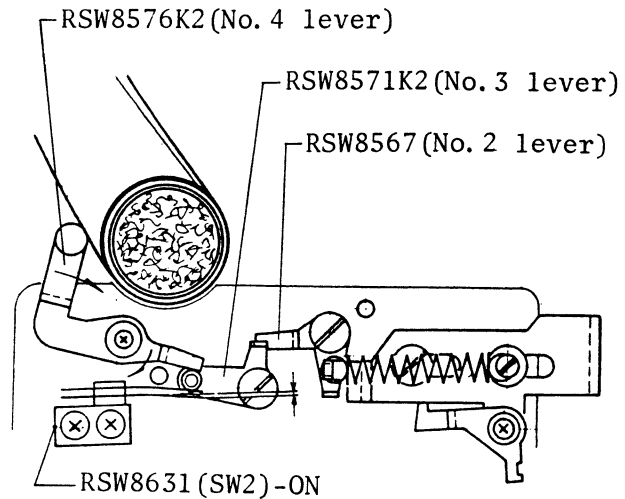


Fig.5

1-2 At one frame film advance

When the stopper ① gets into slot of the dividing device, the lever ② moves in direction shown by the arrow in Fig. 6 so that the SW4 is turned off by means of the pin ③ on the lever ②.

The motor drive is inactivated and film advance is stopped. When the SW4 turns off, the SW3 also turns off.

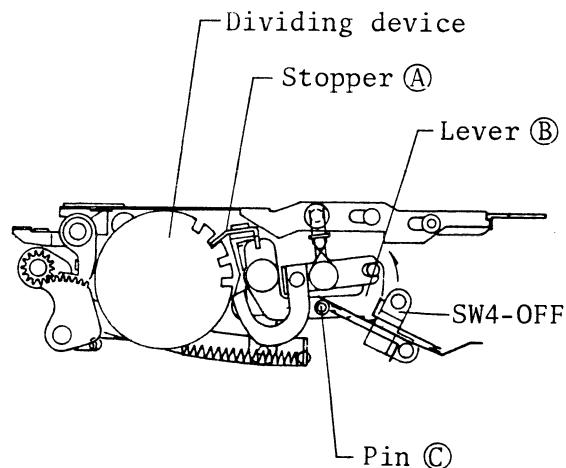


Fig.6

At the moment the motor operates as a generator so that current flows on resistance circuit and then the motor drive is stopped.

when the SW3 switch turns off, the current to the magnet is stopped so that it can be possible to press the shutter release button.

1-3 With the shutter release button released;

As the stopper ① in the slot of the film counter dividing device is detached, the lever ② moves in direction shown by the arrow so that the SW4 switch will turn on as shown in Fig. 7.

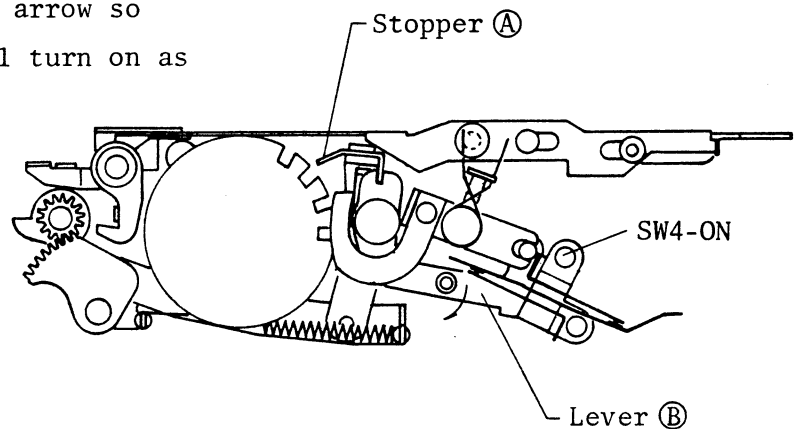


Fig.7

Simultaneously, as the PSW8571K2 third lever is detached from the PSW8567 second lever, the SW2 starting switch will turn off as shown in Fig. 8.

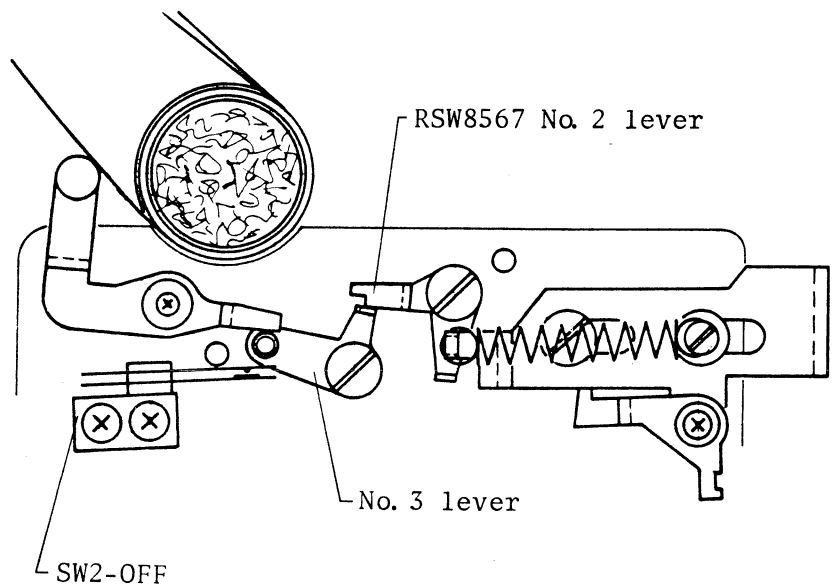


Fig.8

2. Power drive control pack

2-1 Electric circuit diagram

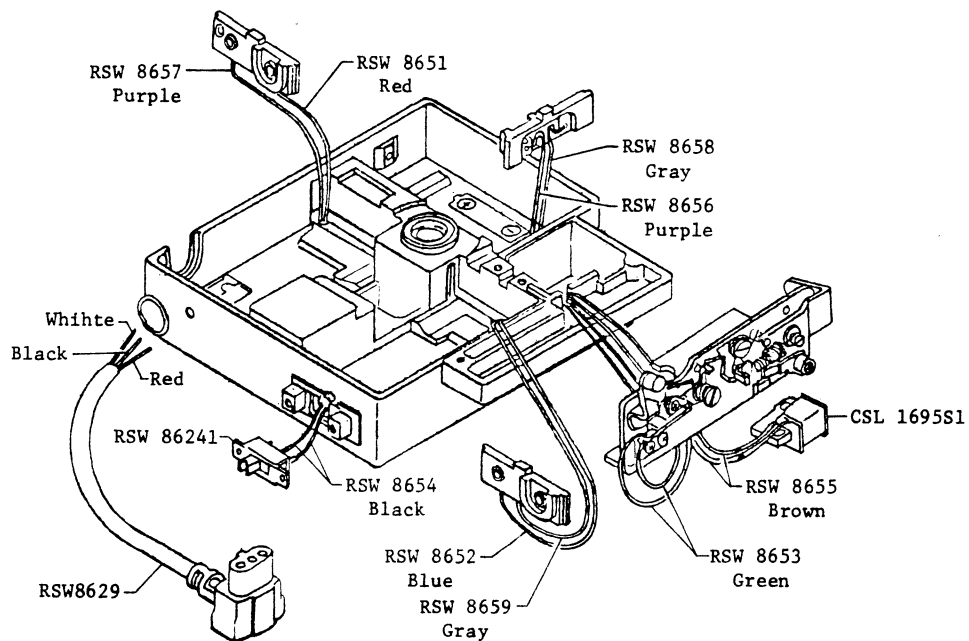


Fig.9

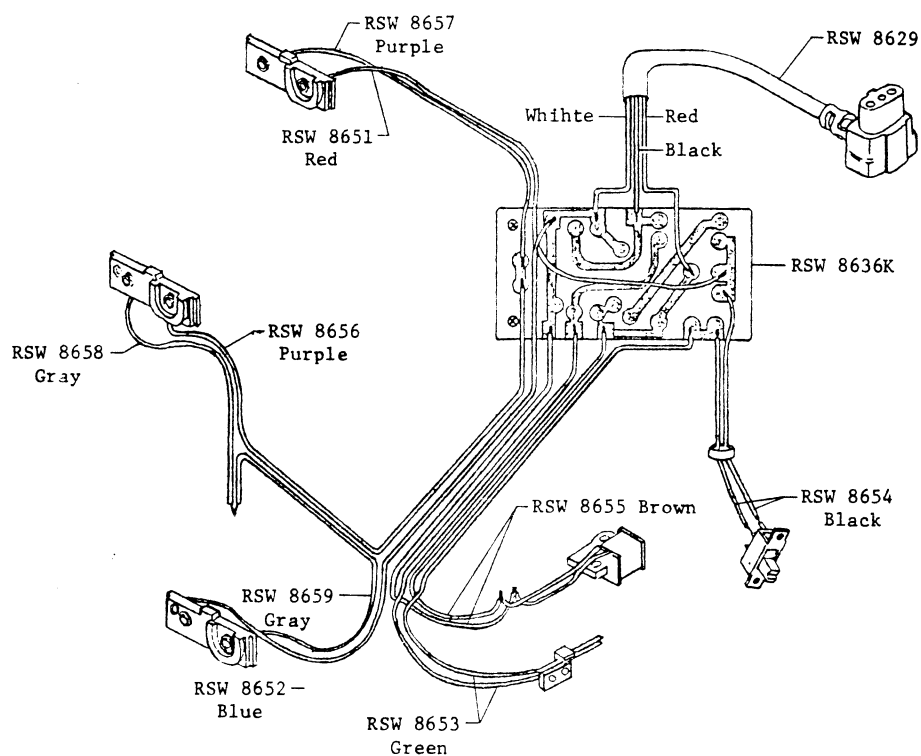


Fig.10

2-2 Dis and reassembly

A Disassembly:

The arabic numeral in a circle as shown in Fig. 11 indicates the procedure of disassembly.

B Reassembly:

Reassembly is normally the reverse of disassembly,

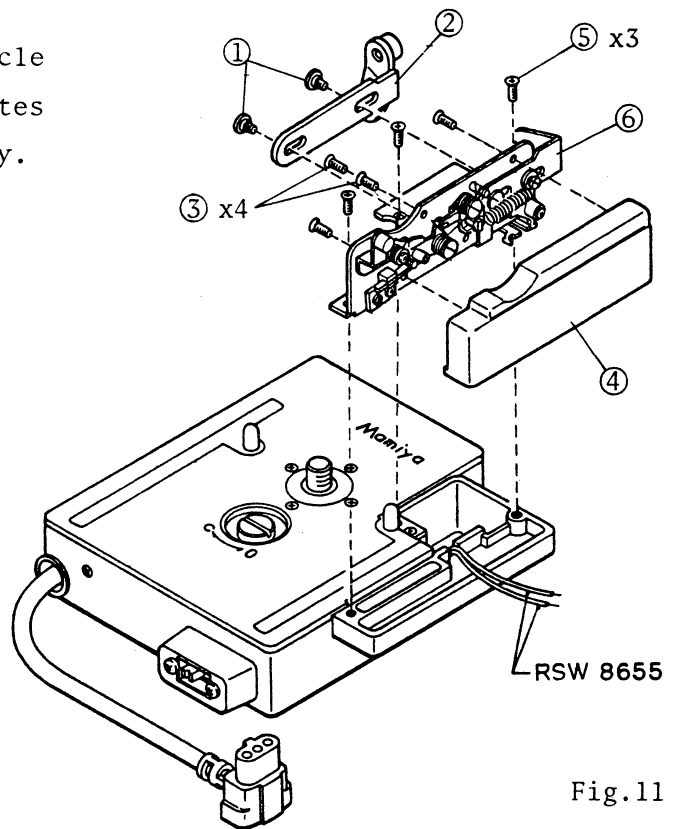


Fig.11

2-3 Function of the SW2 starting switch and its position

A Function:

Please refer to former steps "1-1", "1-2" and "1-3" about it.

B Position:

1. Attach control pack to the camera body.
2. Cock the shutter cocking lever of the camera body.
3. When the third lever is set with the second lever, lower contact of the SW2 switch must be pressed down 0.3mm to 0.5 mm by pin ① of the third lever as shown in Fig. 12.

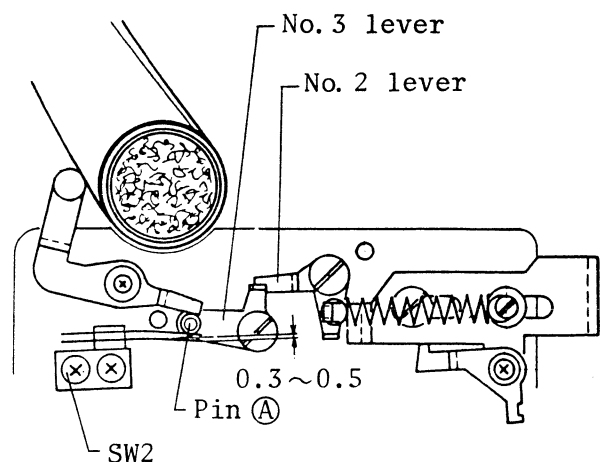


Fig.12

4. Adjustment is made by two PB2x3BNi screws.

Note: When releasing the third lever from the second lever, the SW2 starting switch must be off and its upper contact must not touch to the anchor ⑧ as shown in Fig. 13.

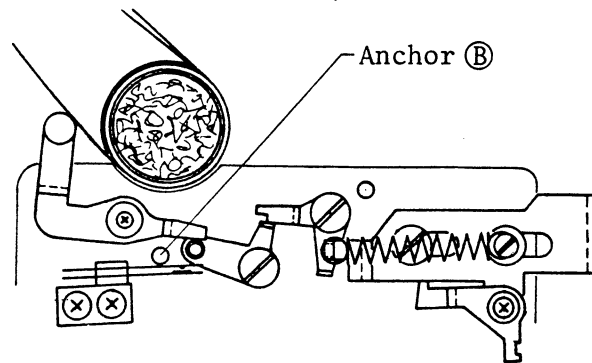


Fig.13

2-4 Mechanism of release lock

1. During the current passes on the magnet circuit (when motor is moving), the armature is attracted on the magnet yoke. Consequently movement of RSW8591K2 lever is stopped.
2. As PSW8561K2 stop lever moves in direction shown by the arrow when pressing the shutter release button, the stop lever is stopped by means of the stopper ⑧ as shown in Fig. 14.
3. As a result, the shutter release button is locked.

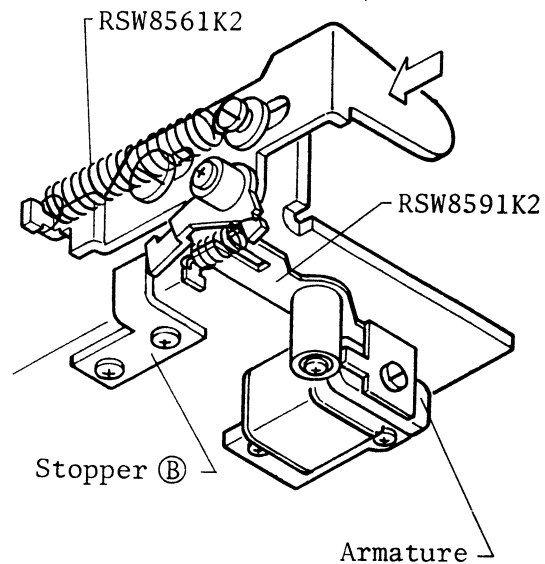


Fig.14

2-5 Check by Tester

Battery 9V	Tester range	Tester terminal		Tester indication
		Red (+)	Black (-)	
With	DC 10	④	⑤	Over 7V
Without	X 1	①	②	Must be in insulation
		③	④	
		⑤	⑥	
		④	⑤	
		①	⑥	Must be in continuity
		②	③	

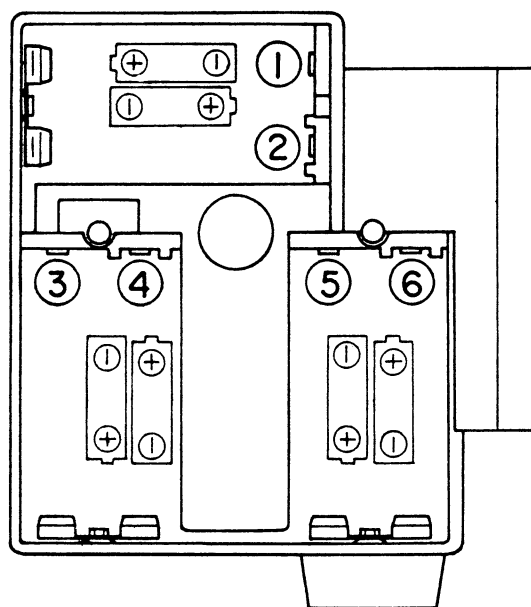


Fig.15

3. Roll film power drive

We only describe about new mechanisms that have been changed from the 120 and 220 roll film holder for RB67.

3-1 Motorized, automatic film advance mechanism

A Film advance:

1. As the current passes on the motor circuit when the power switch (SW1) being turned on, the motor starts to drive.
2. The lower take up spool stud is rotated through gears as shown in Fig. 16.
- Thus the film spool on the stud rotates and the film will be advanced.
3. Simultaneously rotate upper take up spool stud through the spool, as well as No.3 winding gear and RSW8343K2 disc which are united with the stud.
4. The numeral in a circle as shown in Fig. 17 indicates the procedure of the operation.

Thus the charge hook ③ engages with its pawl ④

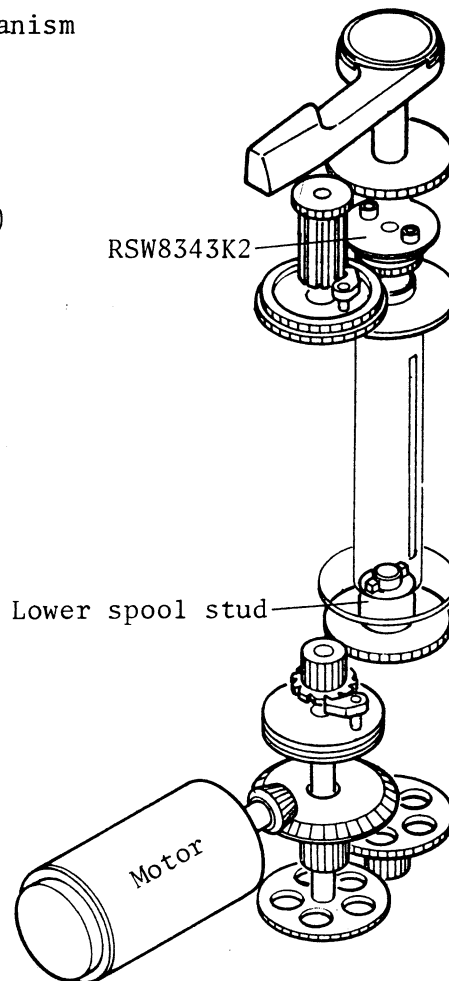


Fig.16

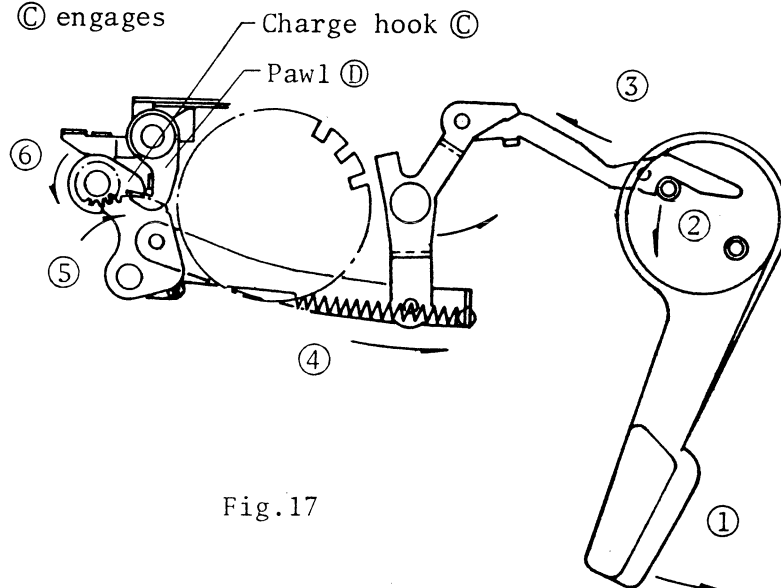
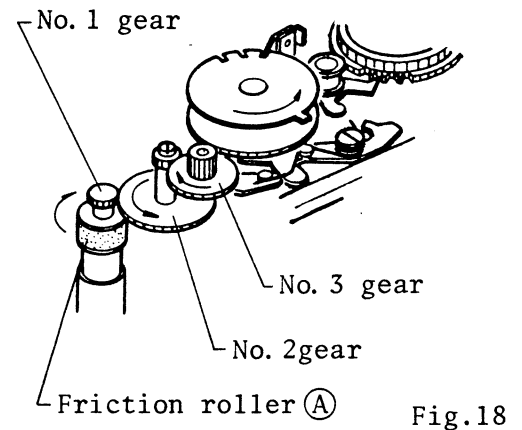


Fig.17

B Film counter operation: (Fig.18)

1. The friction roller ① is rotated by the leader paper when the film being advanced.
2. The No. 2 gear and small No.2 gear united with the No.2 gear are rotated through No. 1 gear.
3. The film counter is rotated through No.3 gear.
4. Then continue to former step "1-2" and the film advance to one frame is finished.

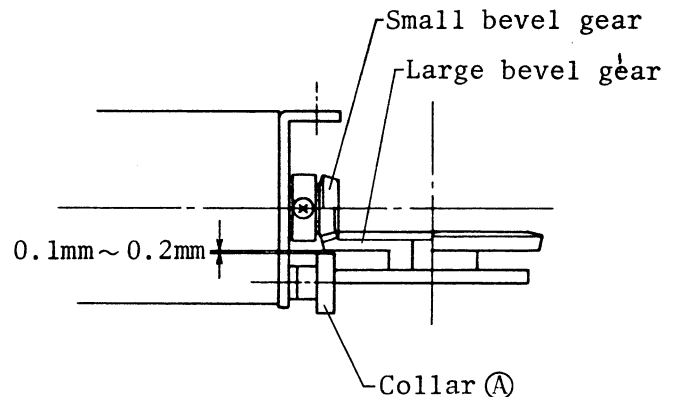


3-2 Motor unit

A Engagement with large bevel gear:

1. Position

When engaging small bevel gear on the motor shaft with large bevel gear, there should be clearance 0.1mm to 0.2mm between bottom of the large bevel gear and collar ① as shown in Fig. 19.



2. Adjustment

- a. Loosen two fixing screws of the small bevel gear.
- b. Determine the small bevel gear with large bevel gear in appropriate position.
- c. Tighten the two screws and apply DB-bond around the screws.

Note: 1) Screw down one of the fixing screws crossing at right angles against cut face of the axle as shown in Fig. 20.

2) Take care for center deflection of the small bevel gear when tightening the two screws.

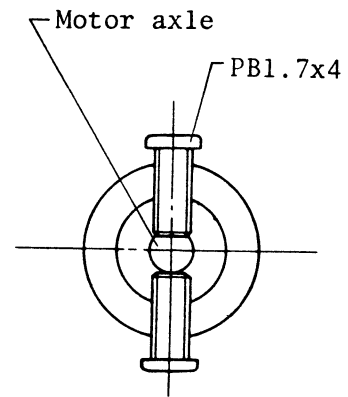


Fig.20

d. Check

- 1) Motor-driven rotation with bevel gears should be light and smooth without harshness.
- 2) The bevel gears must not slip or creak when loading a film.

Note: If there are much play between the large bevel gear and the collar ①, mesh of the both bevel gears will disengage and will jam.

B. New motor fixing board:

1. Purpose of modification:

The shape of motor fixing hole on the board have been changed from ellipse to small circle hole because of being unchangeable installation of the motor.

Consequently its two fixing screws have also been changed as shown in Fig. 21.

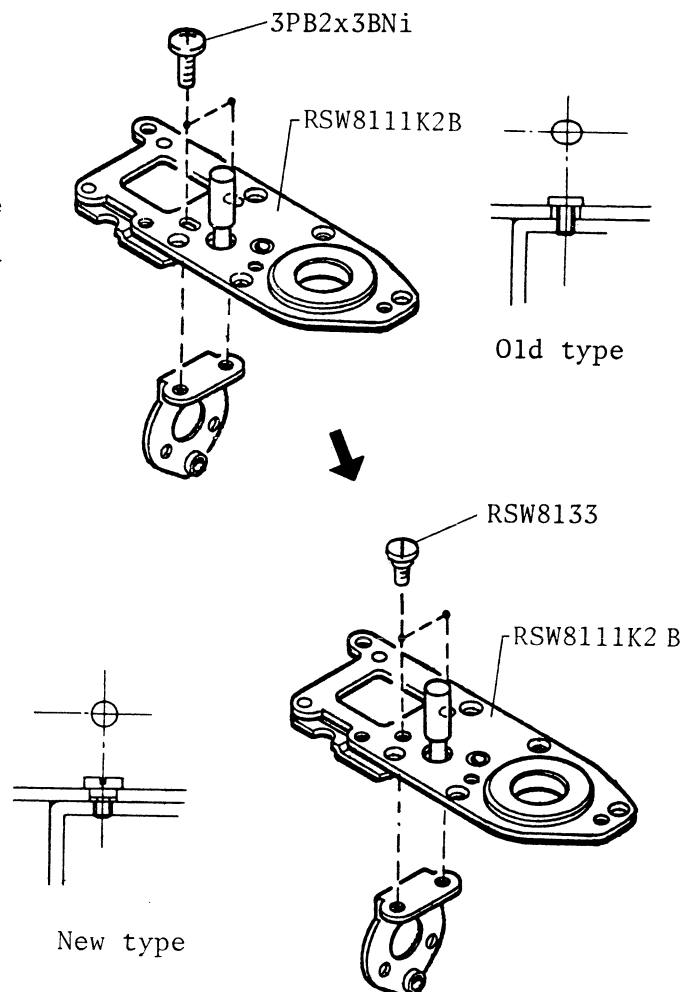


Fig.21

New type

2. Date: Since products of December 1978

Note: With old fixing board:

It is possible to adjust appropriate engagement of the both bevel gears by changing installation of the motor because the two fixing holes in the board are ellipse.

Do not forget to apply screw lock tight (High lock S-4) to the screws after adjusting it.

4. Film counter mechanism

This roll film power drive can be used with either 120 or 220 rollfilm by merely interchanging the pressure plate.

Please refer to page 4 on the Instructions book about how to change it.

4-4 Mechanism of 120 and 220

A With 120 pressure plate: (Fig.22)

1. The pin ⑤ is pushed by back of the pressure plate.
2. RSW8483 hook on RSW8471 change over shaft rotaters counter-clockwise.
3. When advancing film more after the fixed number of exposures have been taken (10), the RSW8481 control arm is stopped at short arm ⑥ of the RSW8483 hook.

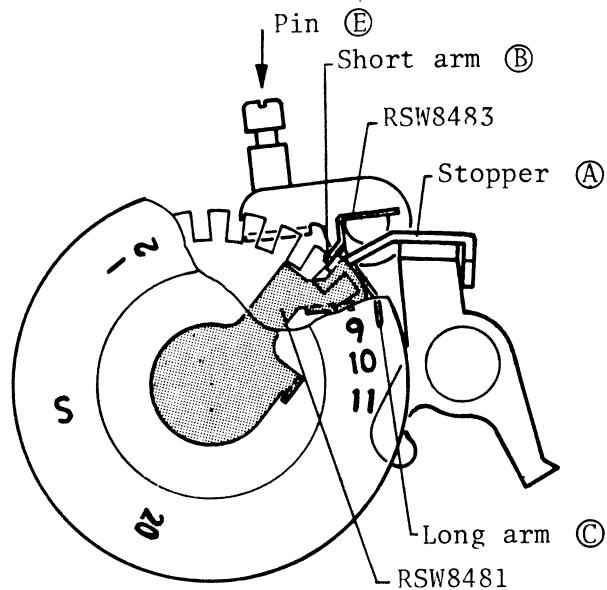


Fig.22

4. The RSW8481 control arm prevents the film winding stopper ④ from getting into the slot of the film counter dividing device so that the film will be advanced to the end completely without releasing the shutter after the fixed number of exposures have been taken (10).

B With 220 pressure plate: (Fig. 23)

1. The pin ⑤ is not pushed by the 220 pressure plate because there is a hole in the pressure plate.
2. As the RSW8483 hook does not rotate, the RSW8481 control arm is stopped by means of long arm ③ of the RSW8483 hook in a position not preventing operation of the winding stopper after ten exposures being taken.

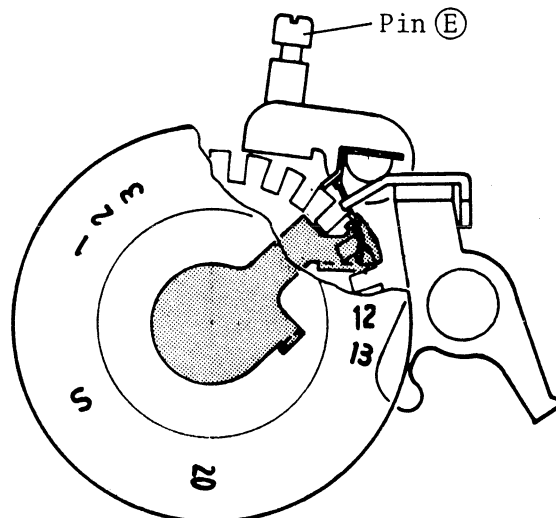


Fig.23

3. Consequently, winding stopper can get into the slot of the film dividing device after ten exposures being taken so that twenty exposures will be possible.

4-2 Dis and reassembly of film counter

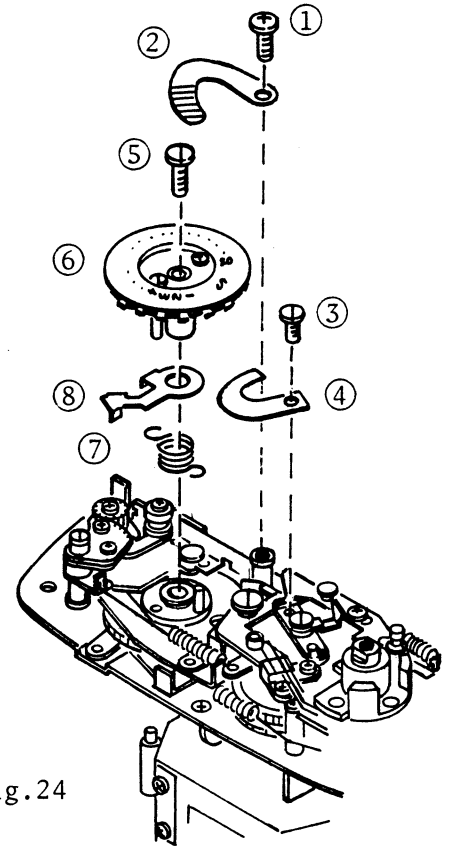
A. Disassembly (Fig. 24)

The arabic numeral in a circle as shown in Fig. 24 indicates the procedure of disassembly.

B. Reassembly: (Fig. 25, 26)

1. Install the ⑧ RSW8481 control arm in the back of the film counter unit and next the ⑦ RSW8482 spring.
2. When installing the ⑥ film counter assy, put the pole ① into hole ① and the pole ② into hole ②.

Fig.24



Note: But, in above case, Would not be able to fix it completely because of interference of the spring.

3. Carefully rotate the ⑥ film counter unit counter clockwise about a half revolution for making effect of the RSH6495 spring which is under the RSW6991 gear.
4. Put the two poles into their holes completely by putting in order the ⑦ spring with No.2 screw driver or something else.

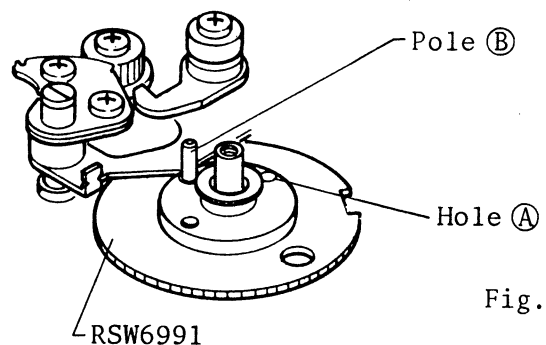
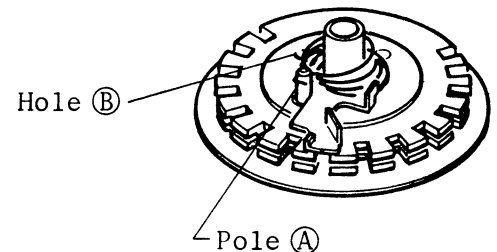


Fig.25

5. Tighten the ⑤ PSH6498 screw and check operation of the ⑥ film counter unit and the ⑧ RSW8481 control arm.

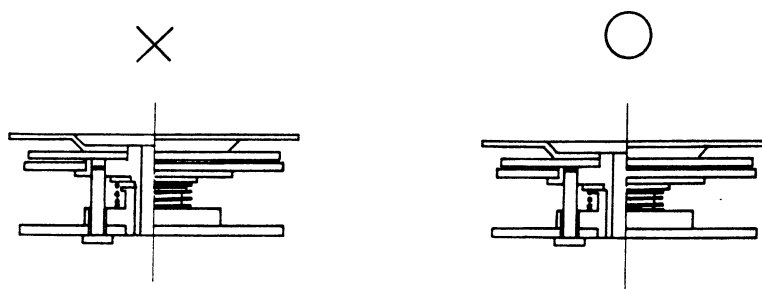


Fig.26

C Installation of film type index plate: (Fig. 27)

1. Remove the pressure plate
2. Install the ② film type index plate as the tip of it is about 1.0mm outside of the inner circle of the film counter disc.

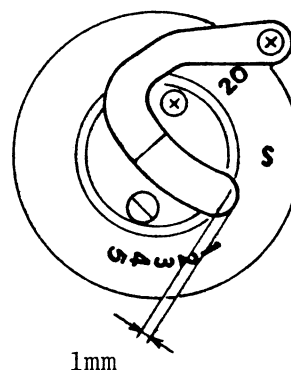


Fig.27

3. With top cover installed, check film type index:

With 120 pressure plate White color

With 220 pressure plate Orange color

in the window must appear.

4-3 Other mechanism

Please use this repair manual in conjunction with the repair manual of conventional 120 and 220 roll film holder of RB67.

Caraful reading the users manual will be also recommended.