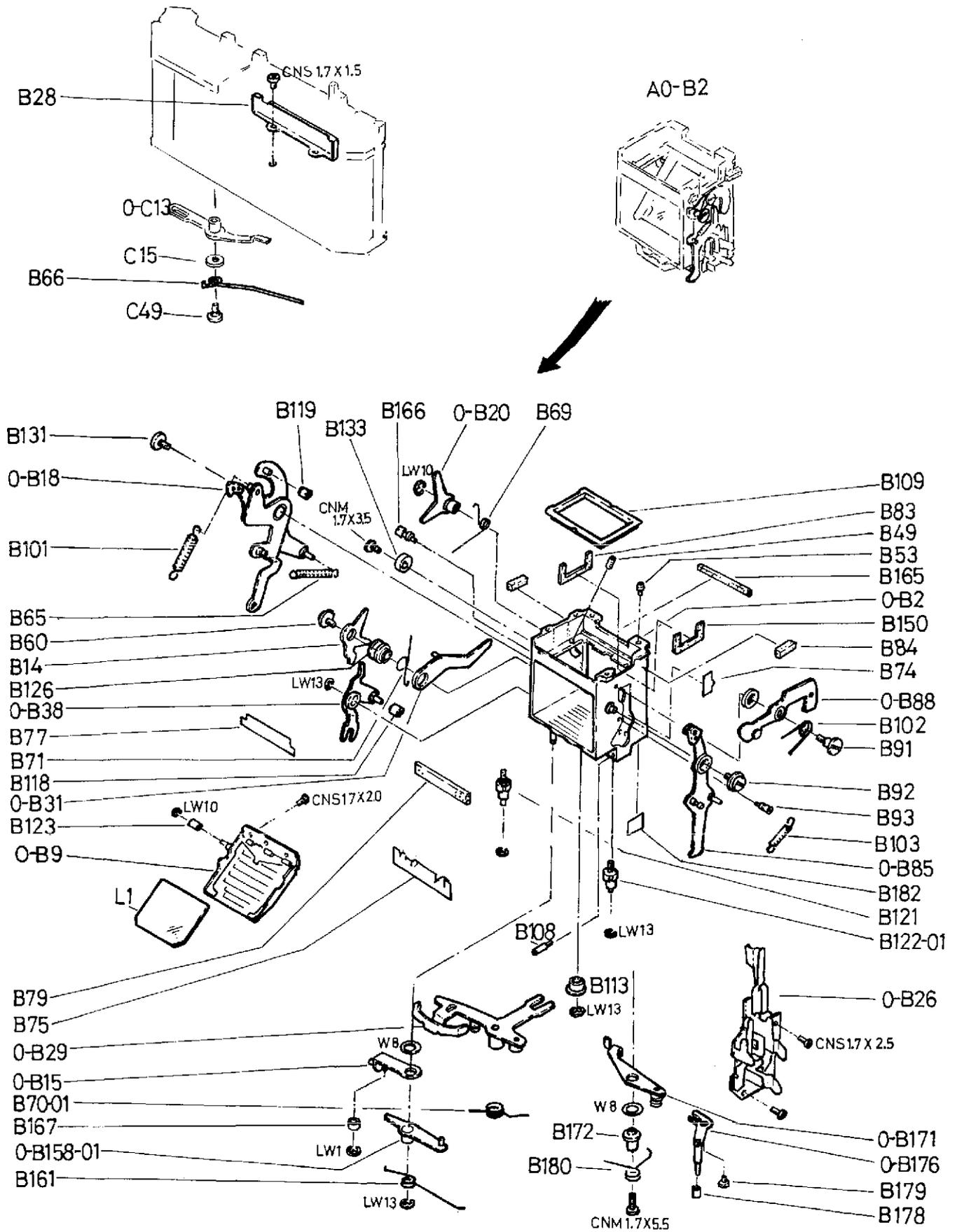


PRODUCT NO.23111

ASAHI PENTAX **ES**



EXPLODED ILLUSTRATION — B

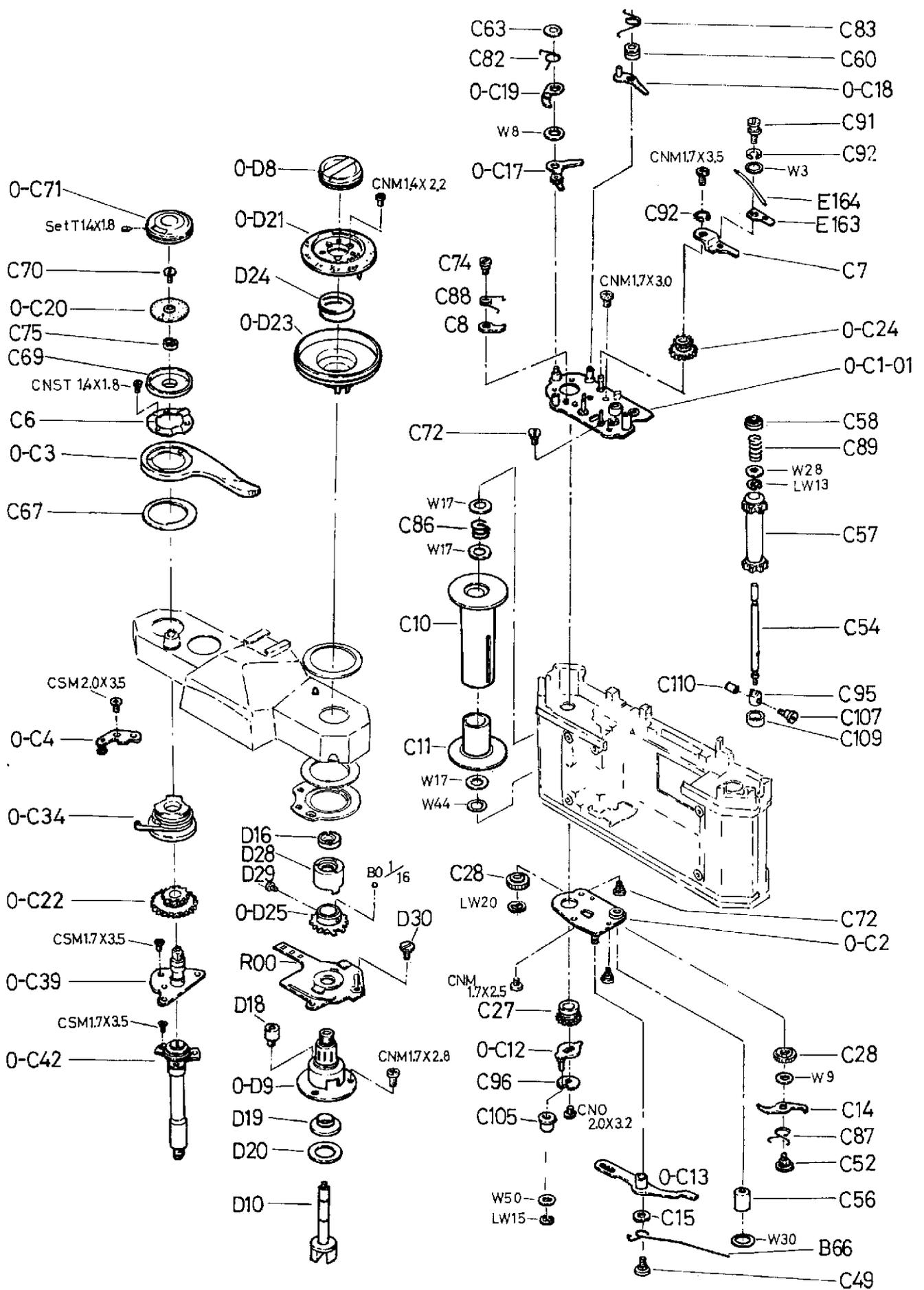


Product No. 23111

ASAHI PENTAX ES

Fig. 2

EXPLODED ILLUSTRATION — C & D

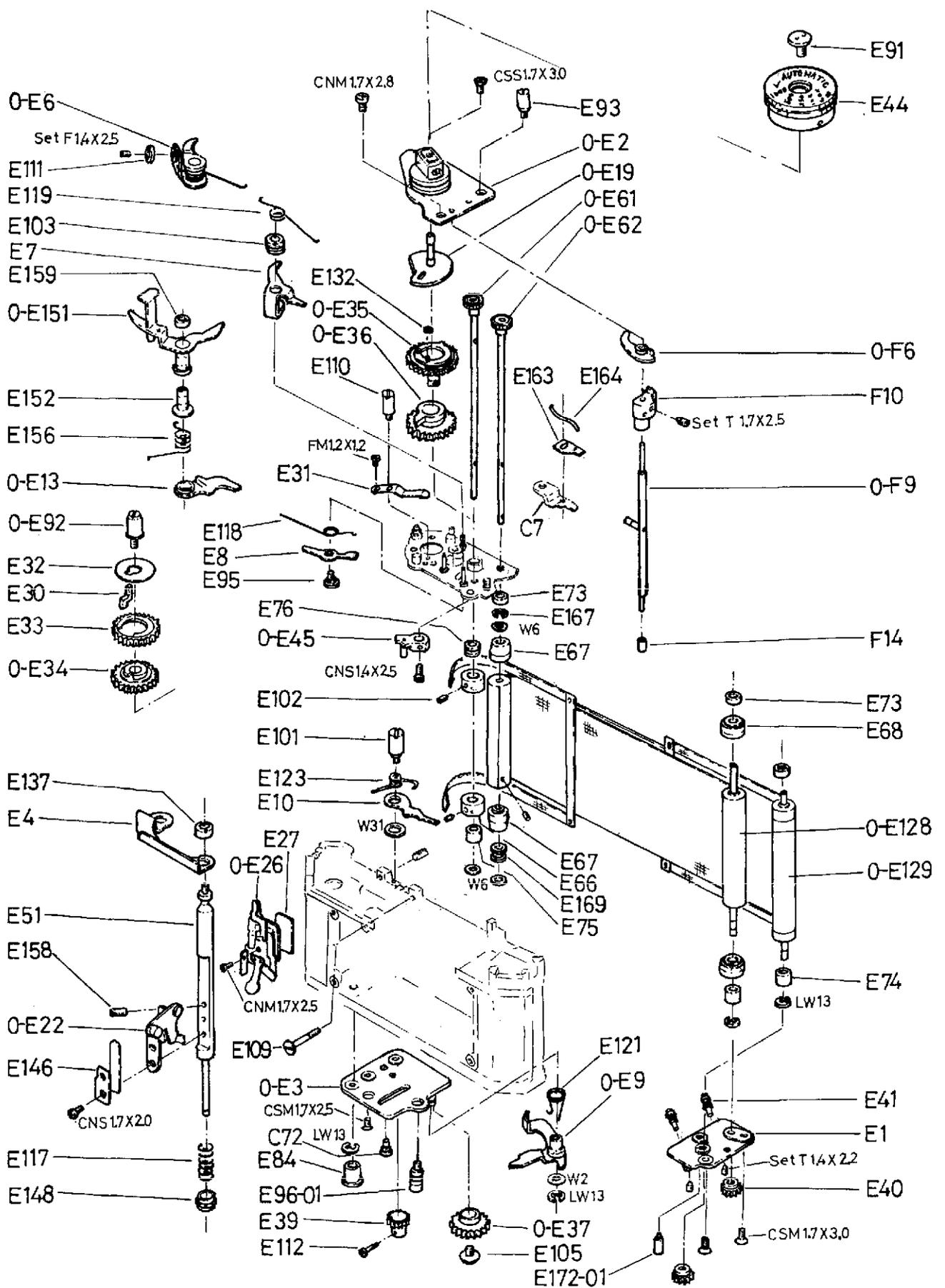


Product No. 23111

ASAHI PENTAX ES

Fig. 3

EXPLODED ILLUSTRATION – E & F

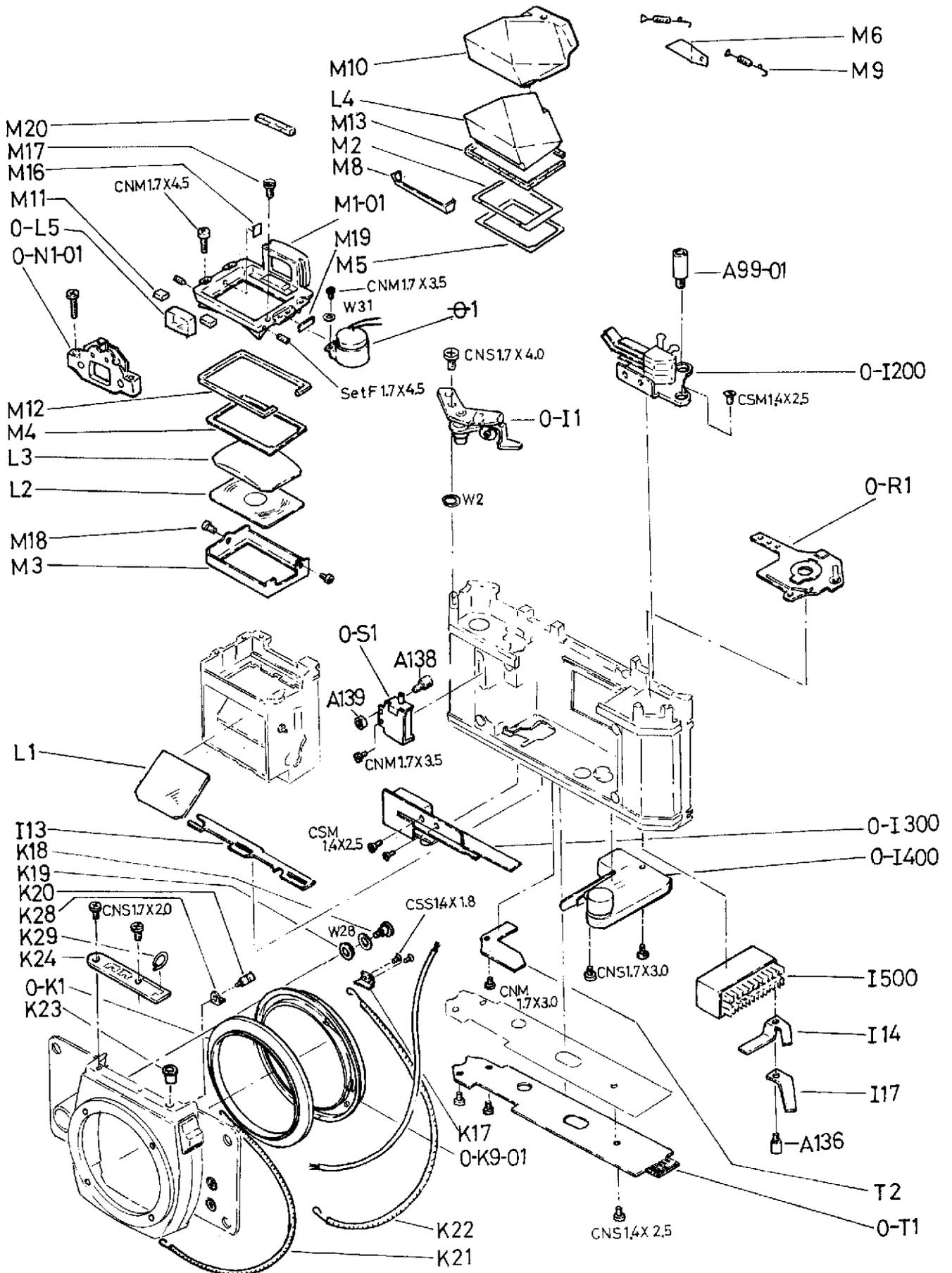


Product No. 23111

ASAHI PENTAX ES

Fig. 4

EXPLODED ILLUSTRATION — I · K · L · M · N · ⊕ · S · T

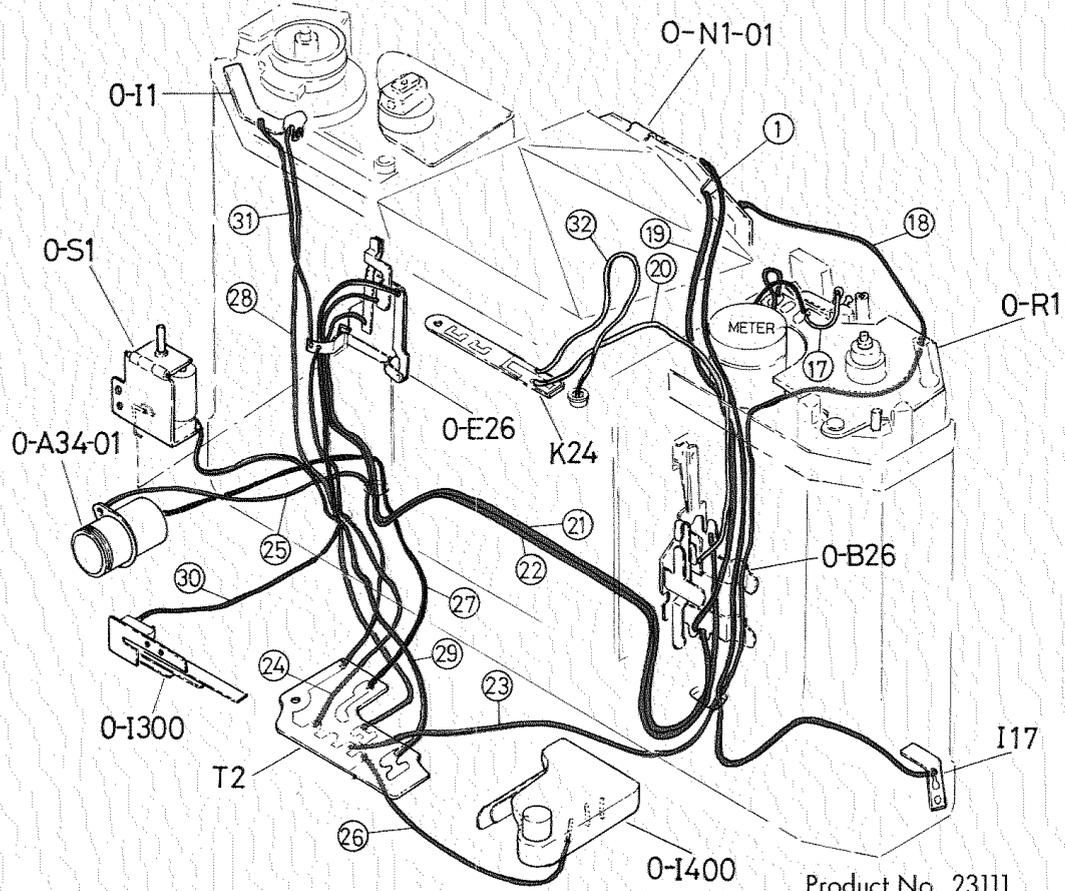


Product No. 23111

ASAHI PENTAX ES

Fig. 5

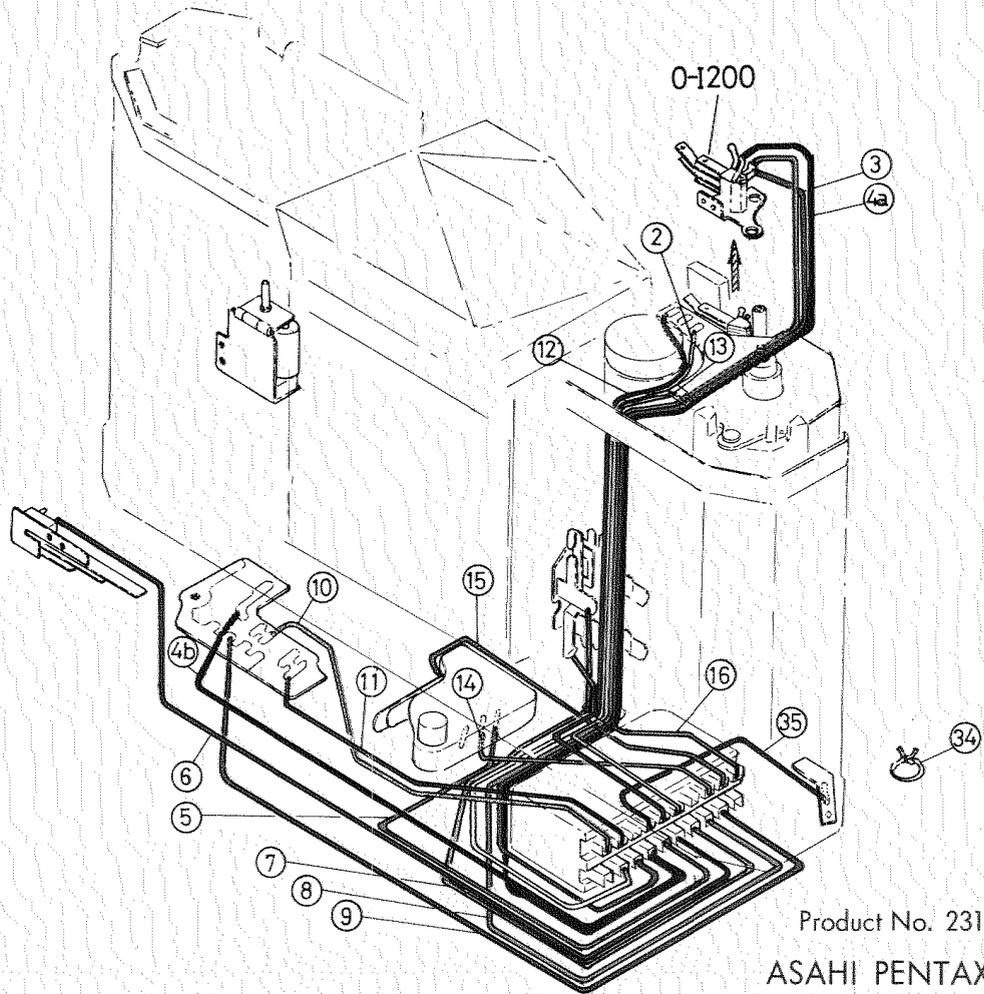
DISTRIBUTING WIRES



Product No. 23111
ASAHI PENTAX ES

Fig. 6-A

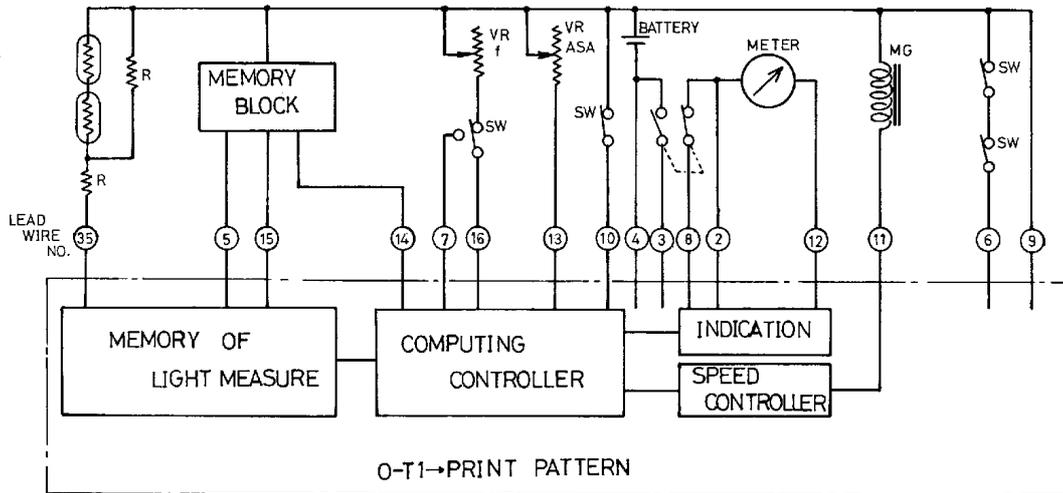
DISTRIBUTING WIRES



Product No. 23111
ASAHI PENTAX ES

Fig. 6-B

CIRCUIT DIAGRAM



Product No. 23111
ASAHI PENTAX ES

Fig. 7

LIST OF SERVICE PARTS

Product No.23111

ASAHI PENTAX ES

Note: 1. The parts with numbers starting "0-" are assembled parts, and starting 'A0-' are complete assemblies including "0-" parts and other unit parts.

2. Only the available parts are listed below.

Parts No.	Description	Quantity	Interchangeability
A1	Body proper	1	
0-A2	Back cover assembly (A2, A7, A10, A11, A13, A14, A39 x2, A43 x2, A45 x4, A47 x2, A58, A79, A80, A85, A86)	1	
0-A3	Top cover assembly (A3, A29, A30, A33, A37, 0-A53, A55, A59, A63, 0-A65, A78, A93, A94, A95, A102, 0-A118, A119, A120, A122, A123, LW13, CSS1.7x4.0 x2, CSS1.7x7.0 x2)	1	
0-A4	Bottom cover assembly (A4, A24)	1	
A0-A6	Front cover complete assembly (0-A6, 0-K1, 0-K9-01, K17, K18, K19, K20, K21, K22, K23, K24, K28, K29, CSS1.4x1.8 x2, CNS1.7x2.0 x2)	1	
0-A6	Front cover assembly (A6, A5, A22, A26, 0-A42, A50-02, A68, A69, A74, A76, A81, A88, A137, CNM1.4x1.8 x2, CFS2.0x3.9 x4)	1	
A8	Back cover key	1	23102-01008
A9	Back cover key retainer plate	1	23102-01009
A12	Back cover key release plate	1	
0-A15	Pressure plate assembly (A15, A21, A48 x2)	1	23102-0-01015
0-A16	Cassette receptacle assembly (A16, A105, A106, A107, A108)	1	23102-0-01016-02

Parts No.	Description	Quantity	Interchangeability
A20	Back cover key retainer spring	1	23102-01020
A22	O. S. switch lever retainer	1	
A25	Insulator plate B	1	
A26	Helicoid seat	1	
A31	Shutter button shaft	1	23102-01031
A32	Tripod socket	1	
A33	Accessory shoe	1	23108-A33-01
0-A34-01	Battery case assembly (A34, A23-02, A28-01, A96, A144, A145-01)	1	
0-A35	Battery case cap assembly (A35, A17-02, A96)	1	
A36	Strap hook	2	23102-01036
A37	Cover ring	1	23105-01037
0-A42	Synchro terminal assembly (A42, A40, A41)	2	23102-0-01042
A44	Back cover key collar	2	23102-01044
A49-01	Top cover install seat	1	
A50-02	O. S. switch lever shaft	1	
0-A53	Accessory shoe seat assembly (A53, A64)	1	23108-0-A53-01
A54	Strap hook retainer screw	1	
A56	Body covering left	1	
A57	Body covering, right	1	
A60	Light seal cloth	1	23102-01060
A63	Accessory shoe spring	1	23112-A63
0-A65	Shoe contact spring assembly (A65, B16)	1	

Parts No.	Description	Quantity	Interchangeability
A66	Bottom cover install shaft	2	
A68	OS switch lever seat	1	23102-01068
A69	OS switch lever	1	
A76	Restitution spring	1	
A77	Cord holder	1	
A78	Light seal	1	23108-A78
A81	Front board dust prevention string	1	23102-01081
A82	Light seal string A	1	23102-01082
A83	" " " B	1	23102-01083
A84	" " " C	1	23102-01084
A88	Synchro terminal nut	2	23102-01088
A94	Battery check button	1	
A95	Battery check button spring	1	
A96	Battery mark	1	
A98	Hole cap	1	
A99-01	Top cover install shaft	1	
A100	Light seal ring A	1	
A101	" " " B	1	
A102	" " " C	1	
A103	Scratch prevention case	1	23102-01105
A104	Bottom cover receptacle	1	
A109	Front board adjusting nut	4	
A110	" " " "	1	
A111	Front board adjusting collar	4	
A112	" " " "	1	

Parts No.	Description	Quantity	Interchangeability
A115	Pressure plate cover	1	23102-01115
A116	Synchro terminal cover	2	23108-A116
0-A118	Switch spring	1	23108-0-A118
A119	Insulation washer	1	23108-A119
A120	Switch pin	2	23108-A120
A121	Insulation collar	1	23108-A121
A122	Top cover light seal cloth	1	23108-A122
A123	Shoe contact spring retainer screw	1	23108-A123
A136	Bottom cover receptacle	1	
A137	Spring hanger washer	1	
A138	Magnet adjusting screw	1	
A139	Nut	1	23103-05156
A141-01	Cord holder	2	
A148-01	Insulation seat C	1	
A149	P. C. board shaft	2	
A0-B2	Mirror housing complete assembly (B2 ~ B182 : except B28 & B66)	1	
0-B2	Mirror housing assembly (B2, B35, B36, B50, B56, B58, B97, B111, B132, B137, B138-01, B153, B170, B174, B175, B181)	1	
0-B9	Mirror seat assembly (B9, B10, B11, B12, B13, B37, B45, B47 x2, B48 x2, B55 x2, B62)	1	
B14-00A B14-00B	Hook plate	1	
0-B15	Diaphragm lever C assembly (B15, B157, B160, B167)	1	
0-B18	Mirror actuator lever assembly (B18, B19-01, B34, B40, B41, B42, B51 x2, B63, B135, W22)	1	

Parts No.	Description	Quantity	Interchangeability
0-B20	Curtain actuator lever assembly (B20, B116)	1	
0-B26	Synchro seat assembly (B26, B16 x3, B17 x3, B23, B24, B25-01, B52 x12, F16, F18, F157)	1	
B28	Shutter curatin control plate	1	
0-B29	Diaphragm lever A assembly (B29, B107, B143, B155)	1	
0-B131	Mirror actuator plate assembly (B31, B134)	1	
	Diaphragm lever D assembly	1	
0-B38-00A	(B38-00A, B115, B117, B120)		
0-B38-00B	(B38-00B, B115, B117, B120)		
0-B38-00C	(B38-00C, B115, B117, B120)		
B49	Focus adjusting screw	3	
B53	Mirror housing retainer screw	2	
B60	Hook plate retainer screw	1	
B65	Mirror seat spring	1	
B66	Mirror restitution spring	1	
B69	Curtain actuator lever spring	1	
B70-01	AM diaphragm spring	1	
B71	Hook plate spring	1	
B74	Mirror box light seal plate	1	
B75	Light seal curtain	1	
B77	" " "	1	
B79	Mirror shock absorber	1	23102-02079
B83	Dust prevention siring A	1	
B84	" " " E	2	23102-02084
0-B85	Diaphragm actuator lever assembly (B85, B32, B94, B95, B96, B100 x2)	1	

Parts No.	Description	Quantity	Interchangeability
0-B88	Hook assembly (B88, B21, B59, B98, B152)	1	
B91	Hook retainer screw	1	
B92	Diaphragm actuator lever screw	1	
B93	Diaphragm actuator lever stopper	1	23102-02093
B101	Diaphragm actuator spring	1	
B102	Hook spring	1	
B103	Diaphragm actuator lever restitution spring	1	
B108	Slide pin	1	
B109	Ground glass frame B	1	
B113	Diaphragm lever A collar	1	
B118	Diaphragm lever D collar	1	
B119	Mirror actuator lever stub collar	1	
B121	Mirror housing retainer screw B	1	
B122-01	" " " " C	1	
B123	Mirror seat roller	1	
B126	Hook plate rest	1	
B131	Mirror actuator lever retainer screw	1	
B133	Mirror actuator lever stopper	1	
B150	Dust prevention string	1	
0-B158-01	Diaphragm lever B assembly (B158-01, B64-01, B154)	1	
B161	Diaphragm lever A spring	1	
B165	Dust prevention string C	1	
B166	Hook plate spring hanger screw	1	

Parts No.	Description	Quantity	Interchangeability
B167-00A B167-00B	Diaphragm lever coupler collar	1	
0-B171	Connection lever assembly (B171, B173)	1	
B172	Connection lever shaft	1	
0-B176	Switch actuator lever assembly (B176, B177)	1	
B178	Actuator lever insulator tube	1	
B179	Switch actuator lever retainer screw	1	
B180	Connection lever spring	1	
B182	Light seal curtain	1	
0-C1-01	Top mec. plate assembly (C1-01, C9, C33, C40, C41, C45, C46, C59, C62, C64, F43, F82 x3, F48, E50, E54, F104, F147, F170)	1	
0-C2	Bottom mec. plate assembly (C2, C29, C48, C50, C51, C53, C106)	1	23102-0-03002
0-C3	Rapid wind lever assembly (C3, C35)	1	23102-0-03003
0-C4	Lever stopper assembly (C4, C65)	1	
C6	Rapid wind lever retainer spring	1	23102-03006
C7	Stopper	1	
C8	Non -return arm	1	
C10	Top take-up spool brim	1	
C11	Bottom take-up spool brim	1	
	Coupler lever pin adjust seat assembly	1	
0-C12-00A	(C12-00A, C47)		23102-2-03212
0-C12-00B	(C12-00B, C47)		23102-2-03312
0-C12-00C	(C12-00C, C47)		23102-2-03412
0-C12-00D	(C12-00D, C47)		23102-2-03512
0-C12-00E	(C12-00E, C47)		23102-2-03612

Parts No.	Description	Quantity	Interchangeability
0-C13	Coupler lever assembly (C13, C100)	1	23102-0-03013
C14	Rewind actuator lever	1	23102-03014
C15	Coupler lever washer	1	23102-03015
0-C17	Counter dial coupler lever assembly (C17, C30, C31)	1	23102-0-03017
0-C18	Counter dial actuator lever assembly (C18, C61)	1	23102-0-03018
0-C19-00A	Counter dial ratchet assembly (C19-00A, C77)	1	23102-0-03219
0-C19-00B	(C19-00B, C77)		23102-0-03319
0-C19-00C	(C19-00C, C77)		23102-0-03419
0-C20	Counter dial assembly (C20, C68)	1	23102-03020
0-C22	Top 1st gear assembly (C22, C23)	1	23102-0-03022
0-C24	Top 2nd gear assembly (C24, C25)	1	23102-0-03024
C27	Bottom main gear	1	23102-03027
C28	Idling gear	2	23102-03028
0-C34	Rapid wind lever seat assembly (C34, C5 x2, C37 x2, C38 x2, C76, C80, C84 x2)	1	23102-0-03024
0-C39-00A	Rapid wind lever shaft assembly (C39-00A, C32, C66 x2, C97, C101)	1	
0-C39-00B	(C39-00B, C32, C66 x2, C97, C101)		
0-C42	Wind up shaft assembly (C42, C21, C26, C43, C44, C85, C86, C93, C94)	1	23102-0-03024
C49	Coupler lever retainer screw	1	23102-03049
C52	Idling gear retainer screw	1	23102-03052
C54	Sprocket shaft	1	23102-03054-02

Parts No.	Description	Quantity	Interchangeability
C56	R button	1	
C57	Sprocket	1	23102-03057
C58	Sprocket collar	1	23102-03058
C60	Counter dial actuator lever collar	1	23102-03060
C63	Counter dial coupler lever collar	1	23102-03063
C67	Rapid wind lever collar	1	
C69	Counter dial housing	1	
C70	Counter dial retainer screw	1	23102-03070
0-C71	Counter dial covering assembly (C71, C90, Set T1. 4x1. 8 x3)	1	23102-0-03071
C72	Mec. plate retainer screw	1	
C74	Non-return arm screw	1	23102-03074
C75	Rapid lever shaft nut	1	23102-03075
C82	Counter dial ratchet spring	1	23102-03082
C83	Counter dial actuator lever spring	1	23102-03083
C86	Spool spring	1	23102-03086
C87	Rewind actuator lever spring	1	23102-03087
C88	Non-return arm spring	1	23102-03088
C89	Sprocket spring	1	23102-03089
C91	Stopper retainer screw	1	23102-03091
C92	Stopper washer	2	23102-03092
C95	Clutch ring	1	23102-03095
C96	Pin rest retainer plate	1	23102-03096
C105	Coupler pin collar	1	23102-03105
C107	Clutch retainer screw	1	23102-03107

Parts No.	Description	Quantity	Interchangeability
C109	Sprocket retainer	1	23102-03109
C110	Clutch ring retainer collar	1	23102-03110
0-D8	Rewind knob assembly (D8, D1, D5, D7, D11, D12, D13, D15)	1	23102-0-04008
0-D9	Shaft bearing assembly (D9, D14)	1	
D10	Rewind shaft	1	
D16	Flat nut	1	
D18	Rewind shaft retainer screw	1	
D19	Rewind shaft collar	1	
D20	Rewind shaft collar plate	1	
0-D21	Film type dial assembly (D21, D3, D4, D6, D17, D22, CSS1.4x1.7 x3)	1	
0-D23	ASA adjustable dial assembly (D23, D26)	1	
D24	ASA switch ring spring	1	
0-D25	ASA selector ring assembly (D25, D27)	1	
D28	Selector ring collar	1	
D29	Selector ring stopper	1	
D30	P. C. board retainer screw	2	
E1	Curtain shaft seat assembly	1	
0-E2	Shutter seat assembly (E2, E17, E20, E21, E42, E57, E58, E99 x2, SM1.4x2.0 x2, SM1.4x2.2, CNM1.7x3.5 x2)	1	
0-E3	Bottom shaft rest assembly (E3, E107, E108)	1	
E4	Release plate	1	

Parts No.	Description	Quantity	Interchangeability
	High speed lever assembly	1	
0-E6-00A	(E6-00A, E5, E52, E53, E111, E120, E122, Set F1. 4x2. 5)		23102-0-05005
0-E6-00B	(E6-00B, E5, E52, E53, E111, E120, E122, Set F1. 4x2. 5)		23102-1-05005
0-E6-00C	(E6-00C, E5, E52, E53, E111, E120, E122, Set F1. 4x2. 5)		23102-2-05005
E7	Bulb lever	1	
E8	1st curtain chcker arm	1	23102-05008
0-E9	Pinion coupler lever assembly (E9, E142)	1	23102-0-05009
E10	Bounce stopper lever	1	23102-05010
0-E13	Magnet actuator plate assembly (E13, E14)	1	
	High speed cam assembly	1	
0-E19-00A	(E19-00A, E47)		23102-0-05219
0-E19-00B	(E19-00B, E47)		23102-0-05319
0-E22	Shutter actuator plate A assembly (E22, E90, E140, E145)	1	
0-E26	X contact piece assembly (E26, B16 x2, B17 x2, B52 x10, E24, E25, E150-02, E173, E174 x2, E175, E177)	1	
E27	X contact piece insulator	1	23102-05027
E30	Spill	1	23102-05030
E31	Spill spring	1	23102-05031
E32	Spill receptacle plate	1	23102-05032
E33	Top intermediate gear	1	23102-05033
0-E34	Bottom intermediate gear assembly (E34, E49)	1	23102-0-05034
0-E35	Top selector gear assembly (E35, E15, E78, E81, E85, E89)	1	
0-E36	Bottom selector gear assembly (E36, E11, E12, E80)	1	

Parts No.	Description	Quantity	Interchangeability
0-E37	Coupler gear assembly (E37, E113)	1	23102-0-05037
E39	Coupler pinion	1	23102-05039
E40	Worm wheel	2	23102-05040
E41	Worm	2	23102-05041
0-E44	Speed dial assembly (E44, E168, Set T1.7x2.5 x3)	1	
0-E45	Speed selector retainer assembly (E45, E77, E125)	1	
E51	Shutter rod	1	
0-E61	1st curtain pinion shaft assembly (E61, E38)	1	23102-0-05061
0-E62	2nd curtain pinion shaft assembly (E62, E38)	1	
E66	1st curtain shaft	2	
E67	1st curtain roller	2	
E68	2nd curtain roller	2	
E73	Curtain shaft rollar A	3	23102-05073
E74	" " " B	2	23102-05074
E75	" " " C	1	23102-05075
E76	" " " D	1	23102-05076
E84	Insulator collar	1	
E91	Speed dial retainer screw	1	23102-05091
0-E92	Intermediate gear retainer screw assembly (E92, E138)	1	
E93	Shutter rest retainer screw	1	
E95	1st curtain checker arm retainer screw	1	23102-05095

Parts No.	Description	Quantity	Interchangeability
E96-01	Coupler lever spring hanger	1	23102-05096
E101	Bounce stopper screw	1	23102-05101
E102	Pinion shaft retainer screw	3	23102-05102
E103	Bulb lever nut	1	23102-05103
E105	Coupler gear retainer screw	1	23102-05105
E109	Bounce stopper adjust screw	1	23102-05109
E110	Spill spring retainer screw	1	23102-05110
E111	High speed lever adjust nut	4	23102-05111
E112	Coupler pinion screw	1	23102-05112
E117	Shutter rod spring	1	
E118	1st curtain checker arm spring	1	23102-05118
E119	Bulb lever spring	1	
E121	Pinion coupler lever spring	1	23102-05121
E123	Bounce stopper spring	1	23102-05123
0-E128	Set of 1st shutter curtain assembly (E128, E23, E59, E63, E69, E70, E115, E126 x2)	1	23102-0-05128
0-E129	Set of 2nd shutter curtain assembly (E129, E23, E60, E64, E65, E69, E70, E71, E72, E116, E127 x2)	1	23102-0-05129
E132	Selector pin collar	1	23102-05132
E137	Release plate installing nut	1	23102-05137
E146	Shutter actuator plate retainer	1	
E148	Shutter rod guide collar	1	23102-05148
0-E151	Timing contact switch lever assembly (E151, E29, E133, E153, E155, B52)	1	
E152	Intervention stopper	1	

Parts No.	Description	Quantity	Interchangeability
E156	Timing contact switch spring	1	
E158	Stroke adjust screw	1	
E159	Dial plate retainer nut	1	
E163	Retainer	1	
E164	Lubrication tube	1	23103-05164
E167	E clip	2	23103-05167
E169	Curtain shaft collar E	1	
E172-01	Curtain shaft retainer screw	1	
0-F6	Pallet release lever top B assembly (F6, F18)	1	23102-0-06006
0-F9	Pallet release rod assembly (F9, F19, F20)	1	
F10	Pallet release lever collar	1	23102-06010
F14	Pallet release rod collar	1	23102-06014
0-I1	Timing switch assembly (I1, I2, I3, I4, I5, I7-01, I8, I9 x2, I10, I11, E111, Set F1. 4x2. 5)	1	
I13	S witch supporter plate	1	
I14	Connector retainer plate	1	
I17	CdS P. C. board	1	
0-I200	Battery checker assembly (I200, I12-01)	1	
0-I300	Power switch assembly (I300, E171, Set F1. 4x2. 5)	1	
0-I400	Memory block assembly (I400, T11, T34)	1	
I500	Connector	1	
0-K1	Resistor support ring assembly (K1, K2, K3, K4 x2, K7, K8 x2, SS1. 4x1. 8 x2)	1	

Parts No.	Description	Quantity	Interchangeability
0-K9-01	Diaphragm coupler ring assembly (K9-01, K6 x2, K10, K11, K12 x2, K13, K14, K15 x2)	1	
K17-00A	Diaphragm coupler lever A	1	
K17-00B	" " " B	1	
K17-00C	" " " C	1	
K18	Diaphragm coupler ring retainer screw	4	
K19	Diaphragm coupler ring retainer	4	
K20	Spring hanger	1	
K21	Supporter ring spring	1	
K22	Coupler ring spring	1	
K23	Insulator collar	1	
K24	Plug seat	1	
K28	Guide plate	1	
K29	Cord holder	1	
L1	Mirror	1	
L2	Fresnel lens	1	23102-02002
L3	Ground glass	1	23102-12003
L4	Penta prism	1	23102-12004
0-L5	Magnifier front element assembly (L5, L6)	1	
M1-01	Prism seat	1	
M2	Shutter dial plate	1	
M3	Ground glass frame A	2	
M4	Ground glass retainer	2	23102-02004
M5	Ground mask	1	
M6	Prism retainer plate	1	23102-02006

Parts No.	Description	Quantity	Interchangeability
M8	Prism side retainer plate	1	23102-02008
M9	Prism retainer spring	2	23102-02067
M10	Prism protector	1	
M11	Magnifier cushion	2	23102-02078
M12	Dust prevention string C	1	
M13	" " " D	1	23102-02073
M16	Dust prevention tape	2	23102-02149
M17	Prism seat retainer screw	1	
M18	Ground glass frame retainer screw	2	
M19	Dust prevention string A	1	
M20	" " " B	1	
0-N1-01	CdS cell frame assembly (N1-01, N2 x2, N3, N4, N6, N7, CNM1.7x3.0 x2)	1	
⊖1	Ammeter	1	
0-R1	ASA volume resistor assembly (R1, R2, R3, R4, R5, R6, R9 x2, R10 x3, R12, R13, R14 x2)	1	
0-S1	Magnet holder assembly (S1, S2, S3, S4, S5, S6, S7-01, S8, S9 x2, S10, S11 x2, S12, S13)	1	
0-T1	P. C. board pattern assembly (T1, T6, T7, T12, T13, T16, T17, T20, T21, T22, T23, T24, T25, T26, T31, T32, T33, T41, T42, T43, T44, T45)	1	
T2	Relay P. C. board	1	

LIST OF STANDARD PARTS

Product No. 23111

ASAHI PENTAX ES

Small screws:

Description	Surface treatment	Position of use	Quantity
CNM1.4 x 1.6	Black nickel	A22, A6	1
		D1, D8	2
CNM1.4 x 3.0	"	T1, A148, A149	2
CNM1.7 x 2.2	Nickel	S1, S8	1
CNM1.7 x 2.5	Black nickel	A20, A1	2
		A144, A34, A6	1
		C1, A1	1
		C2, A1	1
		E26, E27, A1	2
CNM1.7 x 2.8	"	E2, C33	2
CNM1.7 x 3.0	"	D9, A1	2
CNM1.7 x 3.5	"	B133, B2	1
		C7, C41	1
		E57, E58	2
		M1, \ominus 1	2
		S1, A1	1
CNM1.7 x 4.5	Black nickel	M1, B2	2
CNM1.7 x 5.5	"	B172, B170	1
CNM2.0 x 3.5	"	A111, A6, A1	4
		C42, C12	1
CNS1.4 x 1.8	"	C6, C3	3
CNS1.4 x 2.8	"	E35, E45	1
CNS1.7 x 1.5	"	B28, A1	2
CNS1.7 x 2.0	"	B10, B2	2
		E22, F146, F51	2
		A6, K24	2
CNS1.7 x 2.2	" (PB-5)	A3, A49	2
CNS1.7 x 2.5	"	A112, A1	1
		B26, B2	2

Description	Surface treatment	Position of use	Quantity
CNS2.0 x 2.5	Black nickel (PB-5)	A3, C4	1
CNS2.0 x 3.5	"	A26, A6	4
CSM1.7 x 2.5	" (PB-5)	A4, A32 E3, A1	2 1
CSM1.7 x 3.0	"	E1, A1	2
CSM1.7 x 3.5	"	A32, A1 A49, A1 A49, A99 C43, A1 C39, C59 C39, C62 C39, C64	2 1 1 3 1 1 1
CSM2.0 x 3.5	"	C4, A1	2
CSS1.4 x 1.7	"	D3, D21	2
CSS1.4 x 1.8	"	K1, K2 K17, K9	1 2
CSS1.4 x 2.2	"	A68, A6 D21, D28	2 3
CSS1.7 x 2.2	"	A8, A12	2
CSS1.7 x 2.5	"	A13, A1 B35, B2 B36, B2	4 2 2
CSS1.7 x 3.0	"	A9, A44, A1 A16, A108, A1 E2, A1	2 2 1
CSS1.7 x 4.0	"	A33, A53, A3	2
CSS1.7 x 7.0	"	A33, A53, A3 A1, A36	2 1
CSS2.0 x 2.5	" (PB-5)	A44, A66	2
FM1.2 x 1.2	Nickel	E31, C1	1
SM1.4 x 2.0	Black nickel	E20, E21, E57	2
SM1.4 x 2.2	"	E2, E42	3

Description	Surface treatment	Position of use	Quantity
Set F1.4 x 2.5	Black nickel	E111, E6	1
Set F1.7 x 4.0	"	A1	1
Set F1.7 x 4.5	"	M1	2
Set T1.4 x 1.8	"	C69, C72	3
Set T1.4 x 2.2	"	E1, E41	2
Set T1.7 x 2.5	"	E44, E168 F9, F10	3 2

Washers:

Description	Material	Thickness	Position of use	Quantity
W1	Steel	0.1	C17, C30	1
W3	"	0.2 0.1 ~ 0.3	M1 SI, A1	1 1
W4	"	0.1	C17, C31	1
W5	"	0.6	B91	1
W8	Phosphor bronze Steel	0.1 0.2	B137 C62, C63	1 1
W9	Brass	0.4	C51, C52	1
W14	Steel	0.2	E61 E62	1 3
W17	Steel	0.2	C10, C86 C86, C42	1 1
W22	Phosphor bronze	0.15	B63	1
W25	Bakelite	0.4	C11, C27	1
W28	Steel	0.05	C54	1
W30	Steel Celluloid	0.4 0.5	C57 C56, A4	1 1
W31	Steel	0.1	E10, A1	1

Description	Material	Thickness	Position of use	Quantity
W36	Phosphor bronze	0.15	C7, C24, C41	1
W44	"	0.2	C11, C27	1
W70	Steel	0.1~0.3	S1, A1	1

Lock washersL

Description	Material	Position of use	Quantity
LW7	Steel	S6	3
LW10	"	B37, B132	2
LW 13	"	B58	1
		B111	1
		B121	1
		B122	1
		B137	1
		C54	1
		F51	1
		F59	1
		F60	1
		F108	1
LW20	"	C50	1

Ball:

Description	Material	Diameter	Position of use	Quantity
BO1.5	Steel	1.5	D25	1

Lead wires:

Lead wire No.	Length	Color	Position of use	Quantity
1	170mm	Green	I17, 0-N1-01	1
2	115mm	White	0-I500, 0-I200	1

Lead wire No.	Length	Color	Position of use	Quantity
3	125mm	Sky blue	0-I500, 0-I200	1
4-a	120mm	Black	0-I500, 0-I200	1
4-b	110mm	"	0-I500, T2	1
5	70mm	Yellow green	0-I500, 0-I400	1
6	170mm	Blue	0-I500, 0-I400	1
7	60mm	Orange	0-I500, 0-B26	1
8	135mm	Light brown	0-I500, 0-I200	1
9	115mm	Red	0-I500, T2	1
10	105mm	Pink	0-I500, T2	1
11	105mm	Brown	0-I500, T2	1
12	120mm	Blue	0-I500, 0-R1	1
13	110mm	Yellow	0-I550, 0-R1	1
14	70mm	Light purple	0-I500, 0-I400	1
15	75mm	Gray	0-I500, 0-I400	1
16	60mm	Purple	0-I500, 0-B26	1
17	20mm	White	0-R1, 0-I200	1
18	60mm	Red	0-N1-01, 0-R1	1
19	95mm	Gray	0-N1-01, 0-B26	1
20	80mm	Light yellow	K24, 0-B26	1
21	170mm	Red	0-E26, 0-B26	1
22	175mm	"	0-E26, 0-B26	1
23	170mm	"	0-R1, T2	1
24	100mm	"	0-E26, T2	1
25	110mm	"	T2, 0-A34-01	1
26	40mm	"	T2, 0-I100	1

Lead wire No.	Lenght	Color	Position of use	Quantity
27	105mm	Black	T2, 0-A34-01-01	1
28	165mm	Pink	T2, 0-I1	1
29	130mm	Brown	T2, 0-S1	1
30	80mm	Blue	0-E26, 0-I300	1
31	55mm	Red	0-I1, 0-E26	1
32	190mm	White	K24, K2	1
34	2mm			1
35	60mm	Green	0-I500, I17	1