

CATALOG NO. C-100

**PARTS LIST**

FOR

*Mitchell*

**16-MM MOTION PICTURE**

*Camera*

*Mitchell Camera* **CORPORATION**

666 W. HARVARD STREET, GLENDALE 4, CALIFORNIA



## TABLE OF CONTENTS

	Page
INTRODUCTION .....	1
GROUP ASSEMBLY PARTS LIST .....	2
Figure 1. Film Magazine Assembly .....	2
Figure 2. Model 1L Viewfinder Assembly .....	4
Figure 2A. Models 1LA and 16AN Erect Image Viewfinder and Finder Support Assemblies .....	7
Figure 3. Matte Box Assembly with Pola Screen Holder and Double Arm Bracket .....	10
Figure 4. Large Matte Box Assembly .....	12
Figure 5. Model 1W 110 Volt Variable Speed Motor Assembly .....	14
Figure 6. Model 1W Old Style Variable Speed Motor Assembly .....	16
Figure 7. 24 Volt High Speed Motor Assembly .....	18
Figure 7A. Model 1WAG24 and 1WAG115 Governor Controlled Motor Assemblies .....	22
Figure 8. Models 1R46 and 1R47 Synchronous Motor Assemblies .....	25
Figure 9. Model 1R70 Synchronous Motor Assembly .....	26
Figure 10. Capacitor Box ELS30A and Cable Assembly ELC53 .....	28
Figure 11. 16mm Friction Head Assembly .....	30
Figure 12. 16mm Tripod Assembly .....	33
Figure 13. High Speed Movement Assembly .....	34
Figure 14. Sprocket Shaft Assembly .....	37
Figure 15. Sprocket Film Guide Assembly .....	38
Figure 16. Camera Dissolve and Shutter Assembly .....	39
Figure 17. Frame Counter, Motor Shut-off Trip and Magazine Latch Installations .....	41
Figure 18. Focusing Tube Assembly .....	44
Figure 19. Camera Box Assembly .....	46
Figure 20. Lenses, Lens Mount, and Camera Base Assembly .....	48
Figure 21. 16mm Cam Follower Support Bracket and Model 16FF Follow Focus Assemblies .....	52
Figure 22. Model 1F 16mm Blimp Assembly .....	54
Figure 23. 16mm Blimp Follow Focus Assembly .....	60

## INTRODUCTION

1-1. GENERAL. This parts catalog has been prepared to provide camera technicians and cinematographers with information for ordering replacement parts for the Mitchell 16mm Camera. The exclusive design features and famed precision workmanship that have made the Mitchell name synonymous with great cinematography require that only authentic Mitchell parts be used as replacements.

1-2. SCOPE. The various assemblies and sub-assemblies that comprise the 16mm Camera are separately illustrated and parts listed. The exploded views show the parts in relationship to each other and the index numbers assigned to the illustrations of the components give an approximate order of disassembly. Beyond this the index numbers have no further significance; when ordering parts, order by part number and nomenclature only.

1-3. TO FIND A PART NUMBER. When only the appearance of the part is known, and it is desired to find the part number.

refer to the illustration of the appropriate assembly. Locate the part on the illustration and note its index number. Then find the same index number in the accompanying parts list. Opposite the index number will be found the part number, nomenclature and quantity required for the particular assembly.

1-4. TO FIND PART ILLUSTRATION. If only the part number is known, refer to the appropriate parts list for the particular assembly and note the figure and index number shown to the left of the part number. Use the figure and index number to locate the part illustration.

1-5. NON-PROCURABLE PARTS. When a part is not procurable separately as shown by an asterisk (\*), order the next higher assembly. The parts of an assembly are indicated by indenting the nomenclature column directly beneath the higher assembly.

Prepared By  
CUSHING & NEVELL, INC.  
of California  
8170 Beverly Blvd.  
Los Angeles 48, Calif.

**SECTION II**  
**GROUP ASSEMBLY PARTS LIST**

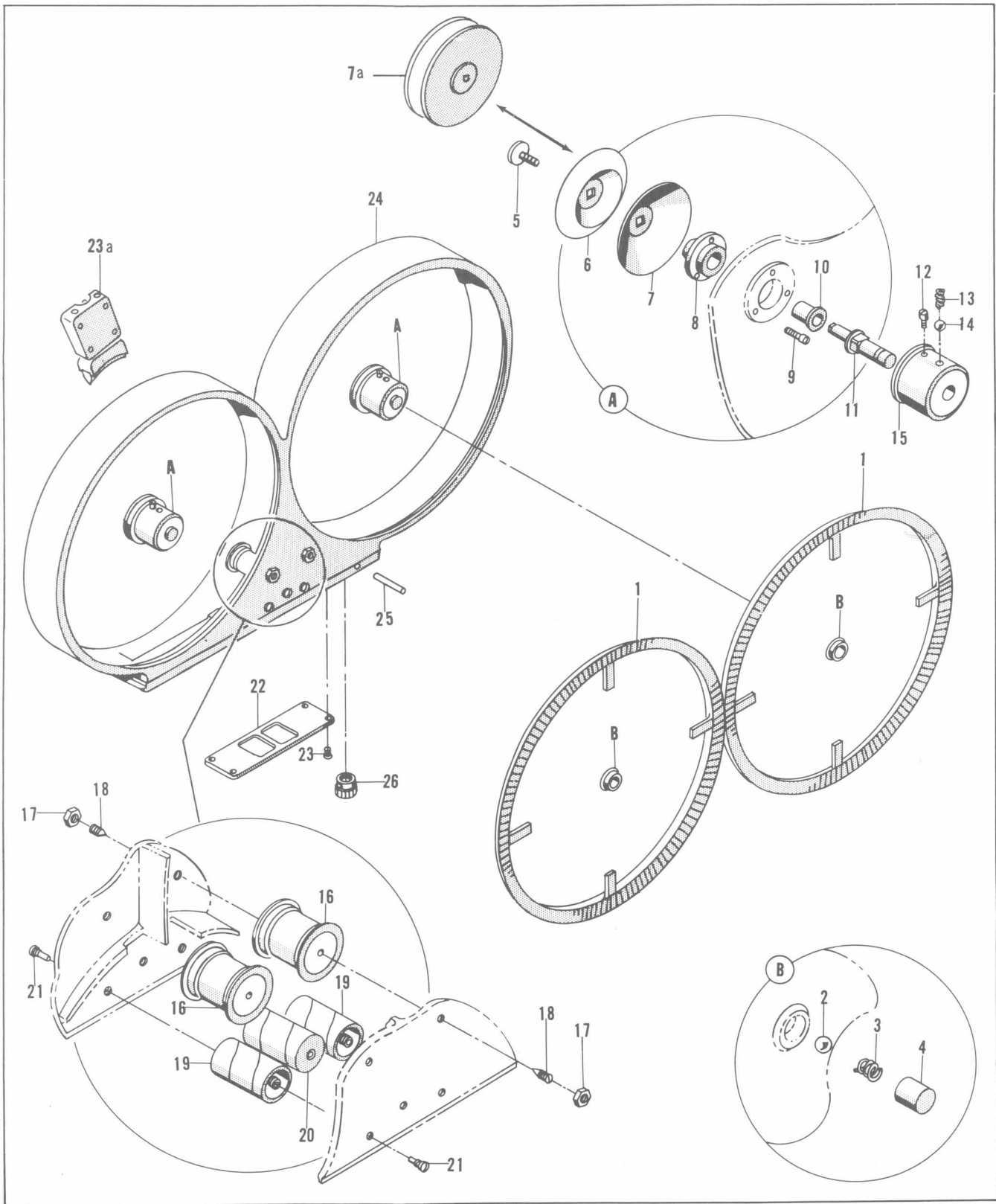
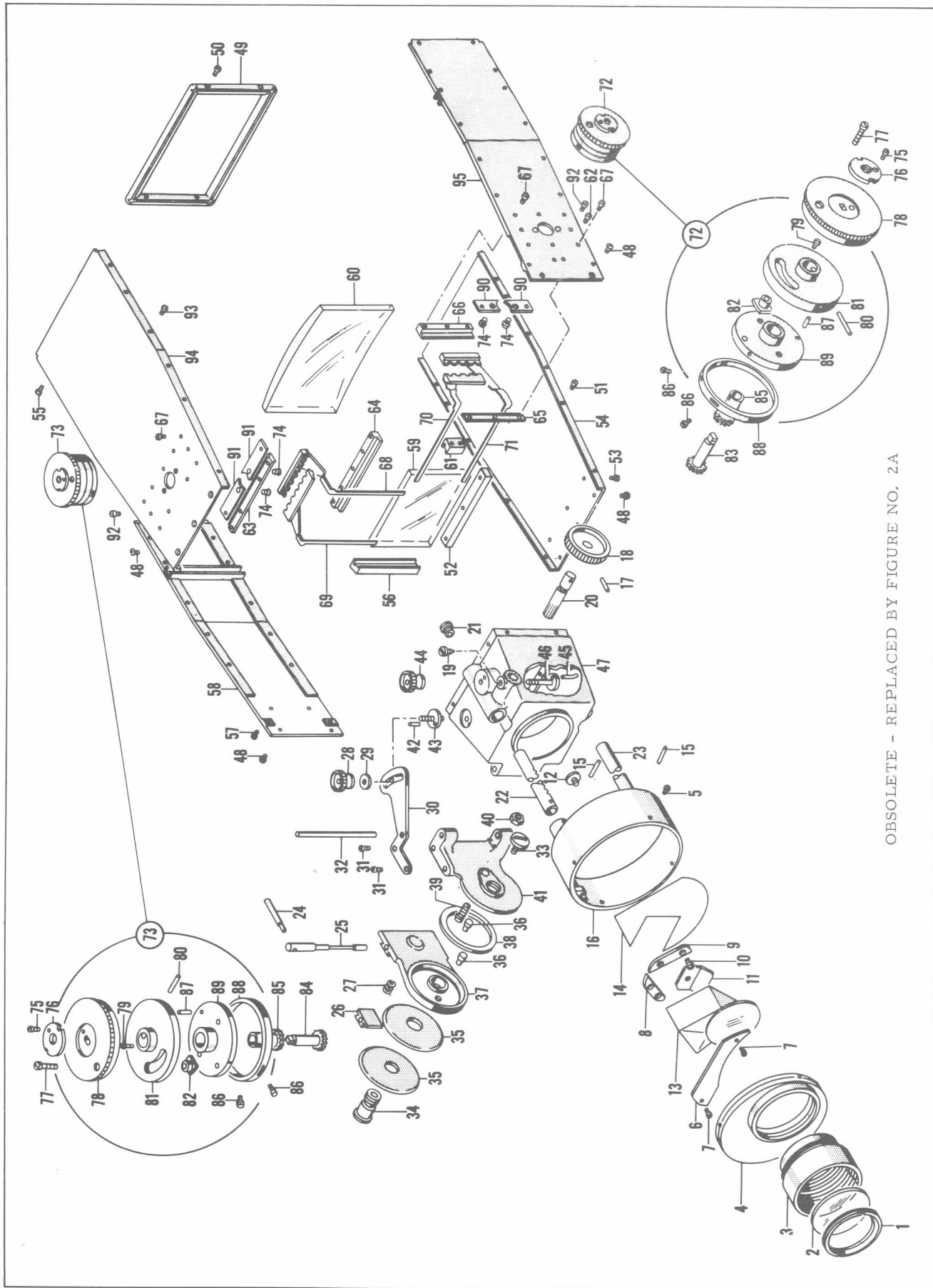


Figure 1. Film Magazine Assembly

Figure and Index Number	PART NUMBER	DESCRIPTION	Units per Assembly	Usable on Code		
					1	2
1	No Number	MAGAZINE ASSY, Film (Model 1-M) . . . . .	1			
1	1M87	. COVER ASSY, Magazine . . . . .	2			
2	COMM	. . BALL, Metal steel 1/4 in. dia. . . . .	1			
3	AI24-5	. . SPRING, Spring housing . . . . .	1			
4	AI24-4	. . HOUSING, Spring . . . . .	1			
	1M18	. . COVER, Magazine . . . . .	1			
5	44	. SCREW, Pulley . . . . .	2			
6	1M12	. DISC, Pulley outside . . . . .	2			
7	1M11	. DISC, Pulley inside . . . . .	2			
7a	1M92	. PULLEY, 16mm 400 ft magazine (used with 1M98) . . . . .	2			
8	1M14	. HOUSING, Bearing. . . . . (ATTACHING PARTS)	2			
9	STD4-7	. SCREW, Fil h corrosion res steel 4-40 x 7/32 in. lg . . . . . -----*-----	6			
10	F329	. BEARING, Oilite (CC) . . . . .	2			
11	1M8	. SPINDLE, Magazine. . . . .	2			
	1M10	. HUB ASSY, Spool. . . . .	2			
12	107	. . STOP, Film spool . . . . .	1			
13	1M20	. . SPRING, Coil . . . . .	1			
14	COMM	. . BALL, Metal steel 1/8 in. dia. . . . .	1			
15	1M19	. . HUB, Spool . . . . .	1			
16	1M7	. ROLLER ASSY, Idler . . . . . (ATTACHING PARTS)	2			
17	AN340-6	. NUT, Light hex steel 6-32 NC2 . . . . .	4			
18	94	. SCREW, Idler roller . . . . . -----*-----	4			
19	1M82	. ROLLER ASSY, End velvet . . . . .	2			
20	1M6	. ROLLER ASSY, Center velvet . . . . . (ATTACHING PARTS)	1			
21	95	. SCREW, Velvet roller . . . . . -----*-----	6			
22	1M2	. PLATE, Bottom magazine. . . . . (ATTACHING PARTS)	1			
23	STD15-10	. SCREW, 82° flat hd corrosion res steel 4-40 x 5/16 in. lg . . . . . -----*-----	4			
23a	1M98	. BRAKE ASSY, 16mm 400 ft magazine (optional) . . . . .	1			
24	1M83	. HOUSING ASSY, Magazine. . . . .	1			
25	COMM	. . PIN, Dowel steel 3/32 x 1 in. lg . . . . .	1			
26	1M5	. . INSERT, Threaded . . . . .	1			
	*1M1	. . HOUSING, Magazine . . . . .	NP			

\* Not procurable as a separate item

Figure and Index Number	PART NUMBER	DESCRIPTION	Units per Assembly	Usable on Code		
					1	2
2	No Number	FINDER ASSY, View (Model 1-L) (obsolete, replaced by figure 2A)	1			
1	AEF62	. NUT, Lock window. . . . .	1			
2	AEF136	. WINDOW, Finder. . . . .	1			
3	AEF64	. EXTENSION, Cover prism box. . . . .	1			
4	EF5A	. COVER, Prism box . . . . . (ATTACHING PARTS)	1			
5	105	. SCREW, Optical . . . . . -----*-----	4			
6	EF21	. CLAMP, Prism upper . . . . . (ATTACHING PARTS)	1			
7	105	. SCREW, Optical . . . . . -----*-----	2			
8	EF23	. GUIDE, Flat prism LH. . . . .	1			
9	EF54	. GUIDE, Flat prism RH. . . . . (ATTACHING PARTS)	1			
10	STD3-6	. SCREW, Fil h corrosion res steel 3-48 x 3/16 in. lg . . . . . -----*-----	4			
11	EF26	. GUIDE, Angle prism . . . . . (ATTACHING PARTS)	1			
12	9	. SCREW, Angle guide prism . . . . . -----*-----	1			
13	EF50	. PRISM, Viewfinder . . . . .	1			



OBSOLETE - REPLACED BY FIGURE NO. 2A

Figure 2. Model 1L Viewfinder Assembly

Figure and Index Number	PART NUMBER	DESCRIPTION	Units per Assembly	Usable on Code		
					1	2
2 (Cont)						
14	AEF151	. MASK, Prism . . . . .	1			
15	COMM	. PIN, Dowel steel 1/16 x 1/2 in. lg . . . . .	2			
16	AEF65	. HOUSING, Prism . . . . .	1			
17	COMM	. PIN, Dowel steel 1/16 x 1/2 in. lg . . . . .	1			
18	AEF110	. KNOB, Focus drive . . . . .	1			
19	AEF111	. SCREW, Lock focus gear . . . . .	1			
20	AEF109	. GEAR, Drive focus finder . . . . .	1			
21	AEF68	. SCREW, Stop focus rack . . . . .	1			
22	AEF66A	. RACK, Focus . . . . .	1			
23	AEF67	. SHAFT, Focus . . . . .	1			
24	EF28	. HANDLE, Eccentric lock dovetail . . . . .	1			
25	1N33	. ECCENTRIC, Lock dovetail . . . . .	1			
26	1N38	. LOCK, Dovetail . . . . .	1			
27	EF25	. SPRING, Dovetail . . . . .	1			
28	LMB11	. NUT, Lock . . . . .	1			
29	AN960C6	. WASHER, Plain corrosion res steel for No. 6 screw . . . . .	1			
30	1L1	. ARM, Lock . . . . .	1			
31	29	(ATTACHING PARTS) SCREW, Lock arm . . . . .	2			
		-----*-----				
32	1L3	. PIN, Swivel . . . . .	1			
33	1N1	. SCREW, Locking . . . . .	1			
34	1N2	. SCREW, Bracket finder . . . . .	1			
35	1N3	. WASHER, Spring . . . . .	2			
36	1N5	. STOP, Bracket . . . . .	2			
37	1N34	. BRACKET, Dovetail . . . . .	1			
38	1N4	. BEARING, Tilt . . . . .	1			
39	1N6	. CAM, Adjustment bracket . . . . .	1			
40	1N7	. NUT, Cam . . . . .	1			
41	1L2	. BRACKET, Finder . . . . .	1			
42	SDP1-6	. PIN, Dowel steel 1/16 x 3/16 in. lg . . . . .	1			
43	AEF112	. SCREW, Lock finder bracket . . . . .	1			
44	LMB11	. NUT, Lock . . . . .	1			
45	EF34	. DOWEL, Focus lock finder . . . . .	1			
46	EF33	. SCREW, Focus lock . . . . .	1			
47	AEF108	. NOSE, Finder . . . . .	1			
		(ATTACHING PARTS)				
48	STD33-4	. SCREW, Oval hd corrosion res steel 3-48 x 1/8 in. lg . . . . .	10			
		-----*-----				
49	AEF144	. BEADING, Box . . . . .	1			
		(ATTACHING PARTS)				
50	105	. SCREW, Optical . . . . .	4			
		-----*-----				
51	105	. SCREW, Optical . . . . .	12			
52	AEF100A	. CLAMP, Ground glass . . . . .	1			
		(ATTACHING PARTS)				
53	105	. SCREW, Optical . . . . .	3			
		-----*-----				
54	AEF106	. PLATE, Bottom . . . . .	1			
55	105	. SCREW, Optical . . . . .	6			
56	AEF98A	. GUIDE, Ground glass RH . . . . .	1			
		(ATTACHING PARTS)				
57	105	. SCREW, Optical . . . . .	2			
		-----*-----				
58	AEF155	. PLATE ASSY, Side RH . . . . .	1			
59	EF38	. GLASS, Ground . . . . .	1			
60	EF41	. LENS, Magnifier . . . . .	1			
61	AEF99	. GUIDE, Ground glass side LH . . . . .	1			
		(ATTACHING PARTS)				
62	105	. SCREW, Optical . . . . .	2			
		-----*-----				
63	AEF118	. PLATE, Guide adjusting matte vertical . . . . .	1			
64	AEF117	. PLATE, Guide gear rack vertical . . . . .	1			
65	AEF119	. PLATE, Guide adjusting matte horizontal . . . . .	1			
66	AEF120	. PLATE, Guide gear rack horizontal . . . . .	1			
		(ATTACHING PARTS)				
67	105	. SCREW, Optical . . . . .	15			
		-----*-----				
68	AEF145	. MATTE ASSY, Vertical LH . . . . .	1			
69	AEF148	. MATTE ASSY, Vertical RH . . . . .	1			
70	AEF146	. MATTE ASSY, Horizontal upper . . . . .	1			
71	AEF147	. MATTE ASSY, Horizontal lower . . . . .	1			

Section II  
Group Assembly Parts List

Figure and Index Number	PART NUMBER	DESCRIPTION	Units per Assembly	Usable on Code		
					1	2
2 (Cont)						
72	AEF143	. DIAL ASSY, Matte side . . . . .	1			
73	AEF152	. DIAL ASSY, Matte top . . . . .	1			
74	STD22-4	(ATTACHING PARTS) . SCREW, Rd hd corrosion res steel 2-56 x 1/8 in. lg . . . . .	4			
75	105	-----*----- . SCREW, Optical . . . . .	1			
76	AEF101	. NUT, Lock adjusting matte . . . . .	1			
77	34	. SCREW, Knob adjusting matte . . . . .	1			
78	AEF103	. KNOB, Adjusting matte . . . . .	1			
79	105	. SCREW, Optical . . . . .	1			
80	COMM	. PIN, Dowel steel 1/16 x 1/2 in. lg . . . . .	1			
81	AEF27	. DIAL, Calibrated matte . . . . .	1			
82	AEF29	. NUT, Matte knob . . . . .	1			
83	AEF102	. PINION, Adjusting matte (used on AEF143 only) . . . . .	1			
84	AEF150	. PINION, Adjusting matte (used on AEF152 only) . . . . .	1			
85	AEF30A	. GEAR, Rack spur . . . . .	1			
86	105	. SCREW, Optical . . . . .	2			
87	SDP1-4	. PIN, Dowel steel 1/16 x 1/8 in. lg . . . . .	1			
88	AEF39A	. RING, Matte knob . . . . .	1			
89	AEF28A	. HOUSING, Matte dial zero ring . . . . .	1			
90	AEF96	. SPACER, Side . . . . .	2			
91	AEF97	. SPACER, Top . . . . .	2			
92	105	(ATTACHING PARTS) . SCREW, Optical . . . . .	4			
93	105	-----*----- . SCREW, Optical . . . . .	6			
94	AEF154	. PLATE ASSY, Top . . . . .	1			
95	AEF153	. PLATE ASSY, Side LH . . . . .	1			

Figure and Index Number	PART NUMBER	DESCRIPTION	Units per Assembly	Usable on Code		
					1	2
2A		Code: "a" designates parts used only on Model 1LA Viewfinder Assembly "b" designates parts used only on Model 16AN Viewfinder Assembly  ERECT IMAGE VIEWFINDER AND FINDER SUPPORT ASSEMBLIES				
	1L10	VIEWFINDER ASSY, Erect image (Model 1LA) . . . . .	Ref	a		
	1L9	VIEWFINDER ASSY, Erect image automatic (Model 16AN)	Ref	b		
1	AEF62	. RING, Window Lock . . . . .	1			
2	AEF136	. WINDOW, Finder . . . . .	1			
3	AEF64	. EXTENSION, Prism box cover . . . . .	1			
4	105	. SCREW, Optical . . . . .	4			
5	EF5A	. COVER, Prism box . . . . .	1			
6	105	. SCREW, Optical . . . . .	2			
7	EF21	. CLAMP, Upper prism . . . . .	1			
8	COMM	. SCREW, Fil hd corrosion resistant steel 3-48 x 3/16 in. lg . . . . .	4			
9	EF23	. GUIDE, Flat prism right . . . . .	1			
10	EF54	. GUIDE, Flat prism left . . . . .	1			
11	9	. SCREW, Standard (Mitchell) . . . . .	1			
12	EF26	. GUIDE, Prism angle . . . . .	1			
13	EF50	. PRISM ASSY, Finder . . . . .	1			
14	AEF151	. MASK, Prism . . . . .	1			
15	COMM	. PIN, Dowel steel 1/16 dia x 1/2 in. lg . . . . .	2			
16	AEF65	. HOUSING, Prism . . . . .	1			
17	COMM	. PIN, Dowel steel 1/16 dia x 1/2 in. lg . . . . .	1			
18	AEF110	. KNOB, Focus drive . . . . .	1	a		
19	AEF111	. SCREW, Focus gear lock . . . . .	1	a		



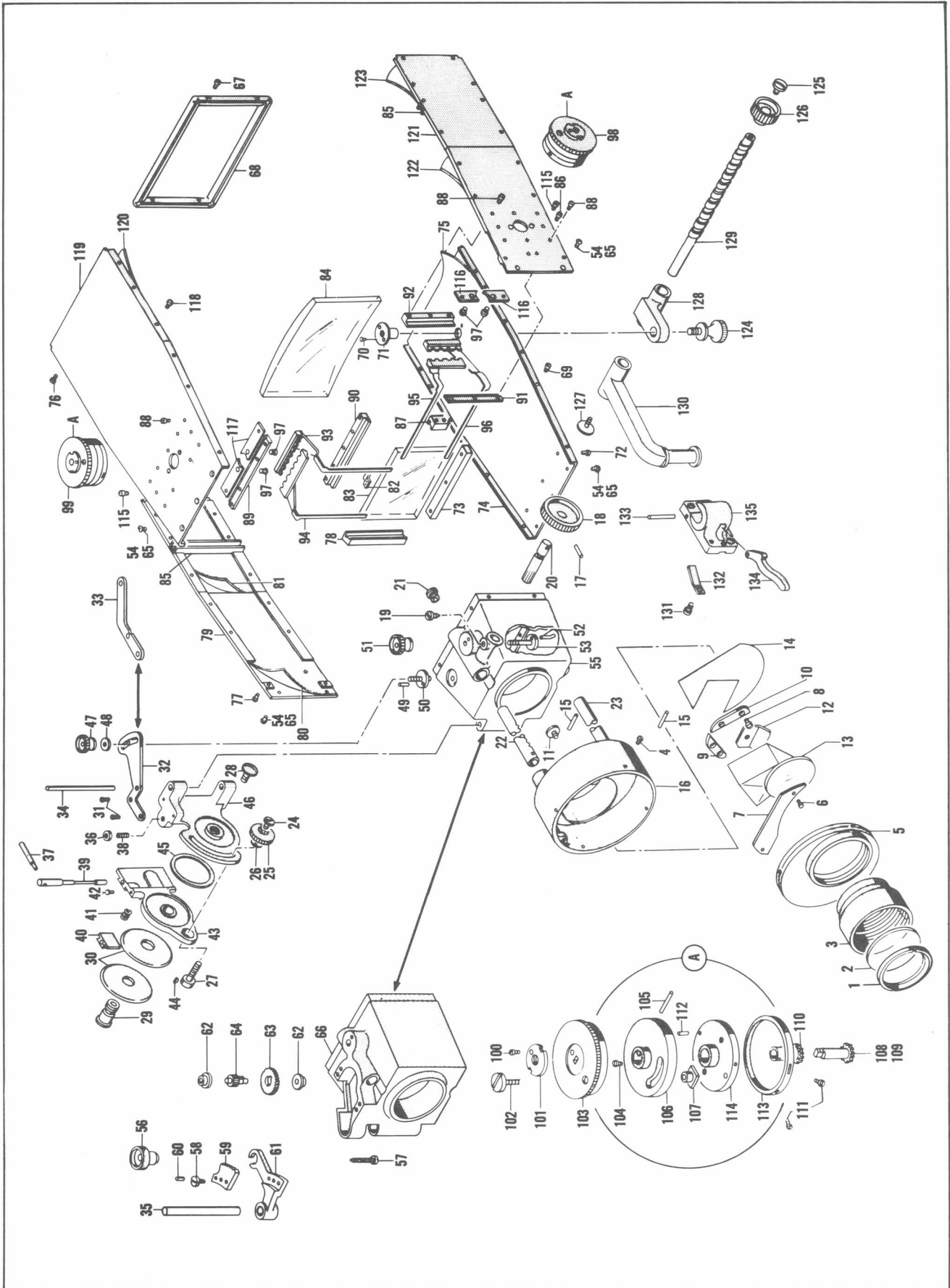


Figure 2A. Models 1LA and 16AN Erect Image Viewfinder and Finder Support Assemblies

Section II  
Group Assembly Parts List

Figure and Index Number	PART NUMBER	DESCRIPTION	Units per Assembly	Usable on Code		
					1	2
2A-20	AEF109	. GEAR, Focus drive . . . . .	1	a		
21	AEF68	. SCREW, Focus rack stop . . . . .	1			
22	AEF66A	. RACK, Focus . . . . .	1			
23	AEF67	. SHAFT, Focus . . . . .	1			
	1L6	. BRACKET ASSY, Finder 16-35 . . . . .	1	a		
	1L7	. BRACKET ASSY, Finder 16-35 . . . . .	1	b		
24	16	. . SCREW, Standard (Mitchell) . . . . .	1			
25	NC895	. . KNOB, Finder hinge locking . . . . .	1			
26	1F606	. . WASHER . . . . .	1			
27	NC894	. . STUD, Hinged finder bracket locking . . . . .	1			
28	1N1	. . SCREW, Bracket pivot locking . . . . .	1			
29	1N2	. . SCREW, Finder bracket . . . . .	1			
30	1N3	. . WASHER, Spring . . . . .	2			
31	29	. . SCREW, Standard . . . . .	2			
31	COMM	. . SCREW, Machine No. 3-48 by 3/16 in. lg . . . . .	2			
32	1L1	. . ARM, Finder lock . . . . .	1	a		
33	1L4	. . ARM, Finder lock . . . . .	1	b		
34	1L3	. . PIN, Erect finder bracket pivot . . . . .	1	a		
35	EF27A	. . PIN, Erect finder bracket pivot . . . . .	1	b		
36	COMM	. . NUT, Hexagon No. 10-32 steel . . . . .	1			
37	EF28	. . HANDLE, Erect finder . . . . .	1	a		
37	EF56	. . HANDLE, Erect finder . . . . .	1	b		
38	COMM	. . SCREW, Headless set No. 10-32 by 7/16 in. lg . . . . .	1			
39	1N33	. . ECCENTRIC, Dovetail locking . . . . .	1			
40	1N38	. . LOCK, Dovetail . . . . .	1			
41	EF25	. . SPRING, Dovetail . . . . .	1			
42	NC893	. . PIN, Finder hinge stop . . . . .	1			
43	1N34A	. . BRACKET, Finder (male) . . . . .	1			
44	201	. . KEY, Woodruff 1/4 dia by 1/16 in. lg . . . . .	1			
45	1N4	. . BEARING, Tilt . . . . .	1			
46	1L2A	. . BRACKET, Finder . . . . .	1	a		
46	1L5A	. . BRACKET, Finder . . . . .	1	b		
47	LMB11	. . NUT, Locking . . . . .	1			
48	COMM	. . WASHER, Locking No. 6 . . . . .	1			
49	COMM	. . PIN, Dowel steel 1/16 dia x 3/16 in. lg . . . . .	1	a		
50	AEF112	. . SCREW, Finder bracket locking . . . . .	1	a		
51	LMB11	. . NUT, Locking . . . . .	1			
52	EF34	. . DOWEL, Finder focus lock . . . . .	1			
53	EF33	. . SCREW, Finder bracket . . . . .	1			
54	COMM	. . SCREW, Oval hd corrosion resistant steel 3-48 x 1/8 in. lg . . . . .	10	a		
55	AEF108	. . NOSE, Finder . . . . .	1	a		
56	AEF79	. . NUT, Finder bracket lock . . . . .	1	b		
57	AEF78	. . SCREW, Finder bracket lock . . . . .	1	b		
	AEF160	. . BRACKET ASSY, Gear rack . . . . .	1	b		
58	COMM	. . SCREW, Fil hd corrosion resistant steel 3-48 x 1/4 in. lg . . . . .	2	b		
59	AEF72	. . RACK, Bracket . . . . .	1	b		
60	COMM	. . PIN, Dowel steel 1/16 dia x 1/4 in. lg . . . . .	1	b		
61	AEF73	. . BRACKET, Gear rack . . . . .	1	b		
62	AEF71	. . BUSHING, Rack driver gear stud . . . . .	2	b		
63	AEF69	. . GEAR, Rack driver . . . . .	1	b		
64	AEF70A	. . STUD, Rack driver gear . . . . .	1	b		
65	COMM	. . SCREW, Oval hd corrosion resistant steel 3-48 x 1/8 in. lg . . . . .	10	b		
66	AEF159	. . HOUSING ASSY, Automatic finder nose . . . . .	1	b		
67	105	. . SCREW, Optical . . . . .	4			
68	AEF144	. . BEADING, Box . . . . .	1			
69	105	. . SCREW, Optical . . . . .	12			
70	16	. . RIVET . . . . .	2	a		
71	FS5A	. . PIVOT, Bearing . . . . .	1	a		
72	105	. . SCREW, Optical . . . . .	3			
73	AEF100A	. . CLAMP, Ground glass . . . . .	1			
74	AEF106	. . PLATE ASSY, Bottom . . . . .	1			

see page 6 for usable on code for this page

Figure and Index Number	PART NUMBER	DESCRIPTION							Units per Assembly	Usable on Code
		1	2	3	4	5	6	7		
2A-75	AEF131	.	.	LINING, Non-reflecting bottom	.	.	.	.	1	
76	105	.	.	SCREW, Optical	.	.	.	.	6	
77	105	.	.	SCREW, Optical	.	.	.	.	2	
78	AEF98A	.	.	GUIDE, Ground glass side (RH)	.	.	.	.	1	
79	AEF155	.	.	PLATE ASSY, Side	.	.	.	.	1	
80	AEF133	.	.	LINING, Non-reflecting forward right side	.	.	.	.	1	
81	AEF135	.	.	LINING, Non-reflecting rear side	.	.	.	.	1	
82	AEF142	.	.	SPRING, Ground glass	.	.	.	.	1	a
83	EF38	.	.	GLASS, Ground	.	.	.	.	1	
84	EF41	.	.	LENS, Magnifier	.	.	.	.	1	
85	EF37	.	.	BRACKET, Magnifying lens holder	.	.	.	.	2	
86	105	.	.	SCREW, Optical	.	.	.	.	2	
87	AEF99	.	.	GUIDE, Ground glass side (LH)	.	.	.	.	1	
88	105	.	.	SCREW, Optical	.	.	.	.	15	
89	AEF118	.	.	PLATE, Vertical adjusting matte guide	.	.	.	.	1	
90	AEF117	.	.	PLATE, Vertical gear rack guide	.	.	.	.	1	
91	AEF119	.	.	PLATE, Horizontal adjusting matte guide	.	.	.	.	1	
92	AEF120	.	.	PLATE, Horizontal gear rack guide	.	.	.	.	1	
93	AEF145	.	.	MATTE ASSY, Vertical (LH)	.	.	.	.	1	
94	AEF148	.	.	MATTE ASSY, Vertical (RH)	.	.	.	.	1	
95	AEF146	.	.	MATTE ASSY, Upper horizontal	.	.	.	.	1	
96	AEF147	.	.	MATTE ASSY, Lower horizontal	.	.	.	.	1	
97	COMM	.	.	SCREW, Rd hd corrosion resistant steel 2-56 x 1/8.	.	.	.	.	4	
				in. lg						
98	AEF143	.	.	DIAL ASSY, Side matte	.	.	.	.	1	
99	AEF152	.	.	DIAL ASSY, Top matte	.	.	.	.	1	
100	105	.	.	SCREW, Optical	.	.	.	.	1	
101	AEF101	.	.	NUT, Matte adjusting lock	.	.	.	.	1	
102	34	.	.	SCREW, Matte adjusting knob	.	.	.	.	1	
103	AEF103	.	.	KNOB, Matte adjusting	.	.	.	.	1	
104	105	.	.	SCREW, Optical	.	.	.	.	1	
105	COMM	.	.	PIN, Dowel steel 1/16 dia x 1/2 in. lg	.	.	.	.	1	
106	AEF27	.	.	DIAL, Calibrated matte	.	.	.	.	1	
107	AEF29	.	.	NUT, Matte knob	.	.	.	.	1	
108	AEF102	.	.	PINION, Side matte adjusting	.	.	.	.	1	
109	AEF150	.	.	PINION, Adjusting top matte adjusting	.	.	.	.	1	
110	AEF30A	.	.	GEAR, Rack spur	.	.	.	.	1	
111	105	.	.	SCREW, Optical	.	.	.	.	2	
112	COMM	.	.	PIN, Dowel steel 1/16 dia x 1/8 in. lg	.	.	.	.	1	
113	AEF39A	.	.	RING, Matte knob	.	.	.	.	1	
114	AEF28A	.	.	HOUSING, Matte dial zero ring	.	.	.	.	1	
115	105	.	.	SCREW, Optical	.	.	.	.	4	
116	AEF96	.	.	SPACER, Side	.	.	.	.	2	
117	AEF97	.	.	SPACER, Top	.	.	.	.	2	
118	105	.	.	SCREW, Optical	.	.	.	.	6	
119	AEF154	.	.	PLATE ASSY, Top	.	.	.	.	1	
120	AEF132	.	.	LINING, Non-reflecting top	.	.	.	.	1	
121	AEF153	.	.	PLATE ASSY, Side	.	.	.	.	1	
122	AEF134	.	.	LINING, Non-reflecting forward left side	.	.	.	.	1	
123	AEF135	.	.	LINING, Non-reflecting rear side	.	.	.	.	1	
	1Y3	.	.	SUPPORT ASSY, Finder	.	.	.	.	1	a
124	FS11	.	.	SCREW, Thumb	.	.	.	.	1	a
125	5	.	.	SCREW, Standard (Mitchell)	.	.	.	.	1	a
126	FS10	.	.	KNOB, Worm	.	.	.	.	1	a
127	9	.	.	SCREW, Standard (Mitchell)	.	.	.	.	1	a
128	FS2A	.	.	NUT, Worm	.	.	.	.	1	a
129	FS6A	.	.	WORM, Finder support	.	.	.	.	1	a
130	1Y2	.	.	ARM AND LOCATING BEARING ASSY, Finder support	.	.	.	.	1	a
131	COMM	.	.	SCREW, Flat hd corrosion resistant steel 2-56 x 7/32.	.	.	.	.	1	a
				in. lg						
132	FS8	.	.	SPRING, Latch	.	.	.	.	1	a
133	COMM	.	.	PIN, Dowel steel 3/32 dia x 15/16 in. lg	.	.	.	.	1	a
134	FS9	.	.	LATCH, Finder support	.	.	.	.	1	a
135	FS3B	.	.	CATCH, Finder support	.	.	.	.	1	a

see page 6 for usable on code for this page

Section II  
Group Assembly Parts List

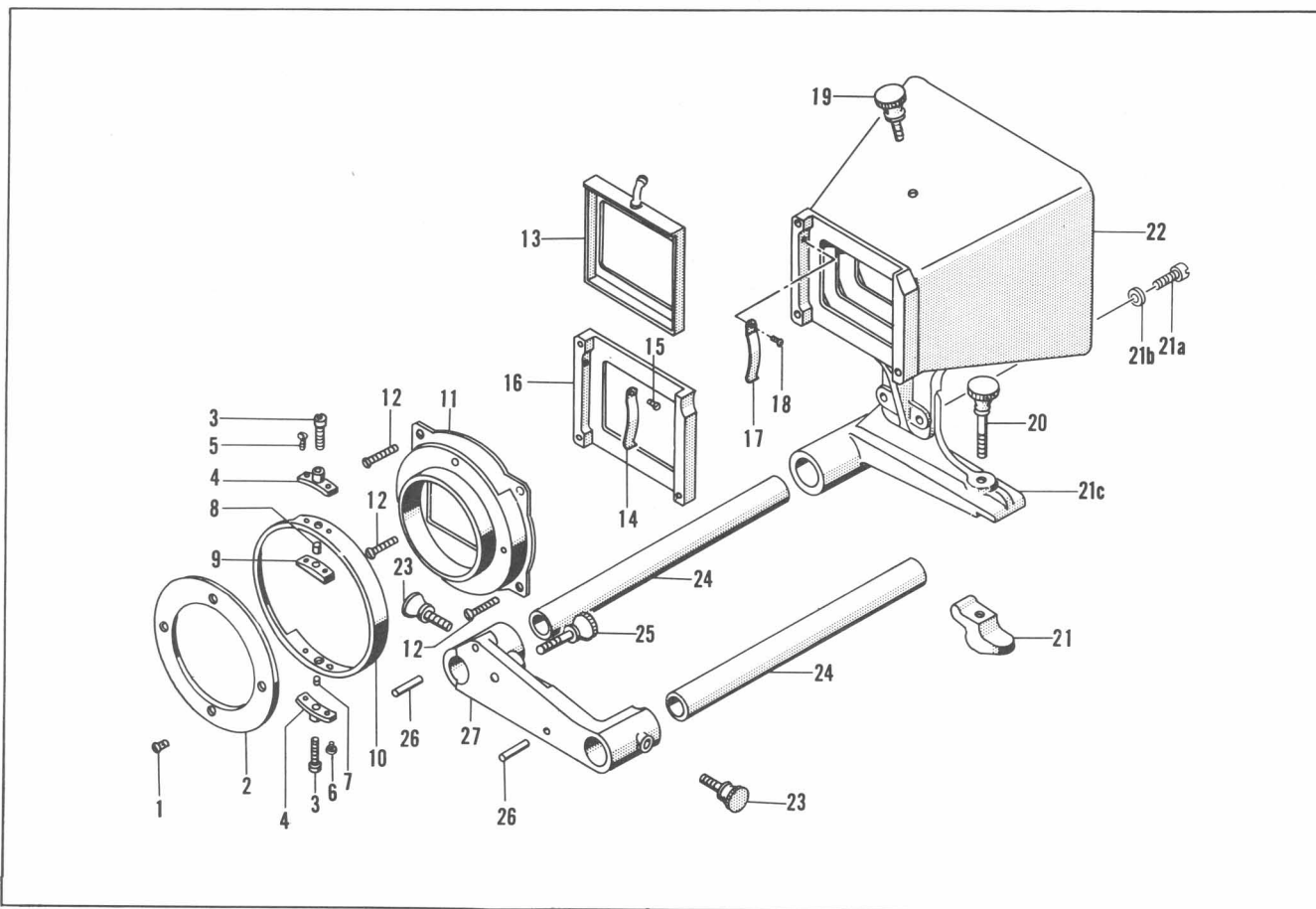


Figure 3. Matte Box Assembly with Pola Screen Holder and Double Arm Bracket Assembly

Figure and Index Number	PART NUMBER	DESCRIPTION	Units per Assembly	Usable on Code
3	No Number	BOX ASSY, Matte (Model 1-V-71 with pola screen attachment)	1	
1	STD13-4	• SCREW, 82° flat hd corrosion res steel 2-56 x 1/8 in. lg . . . . .	4	
2	LMB1B	• RING, Pocket pola screen . . . . .	1	
3	6	• SCREW, Lock . . . . .	2	
4	AJ26-7	• LOCK, Pola screen . . . . .	2	
5	STD22-5	(ATTACHING PARTS)		
6	STD22-3	• SCREW, Rd hd corrosion res steel 2-56 x 5/32 in. lg . . . . .	2	
7	LMB92	• SCREW, Rd hd corrosion res steel 2-56 x 3/32 in. lg . . . . .	2	
8	LMB99	-----*		
9	LMB71	• PLUG, Lock pola screen short. . . . .	1	
10	LMB70	• PLUG, Lock pola screen long . . . . .	1	
11	LMB2B	• STOP, Tube pola screen . . . . .	1	
12	STD13-24	• TUBE, Pola screen . . . . .	1	
13	LMB33	• HOLDER, Pola screen front . . . . .	1	
14	LMB5	(ATTACHING PARTS)		
15	STD22-6	• SCREW, 82° flat hd corrosion res steel 2-56 x 3/4 in. lg . . . . .	3	
16	1V3	-----*		
17	LMB5	• HOLDER ASSY, Filter . . . . .	1	
18	STD22-6	• SPRING, Filter holder . . . . .	1	
19	FS11	(ATTACHING PARTS)		
20	AM28-5	• SCREW, Rd hd corrosion res steel 2-56 x 3/16 in. lg . . . . .	1	
		-----*		
		• CASTING . . . . .	1	
		• SPRING, Filter holder . . . . .	1	
		(ATTACHING PARTS)		
		• SCREW, Rd hd corrosion res steel 2-56 x 3/16 in. lg . . . . .	1	
		-----*		
		• SCREW, Holding extension shade . . . . .	1	
		• SCREW, Lock extension . . . . .	1	

Figure and Index Number	PART NUMBER	DESCRIPTION	Units per Assembly	Usable on Code		
					1	2
3 (Cont)						
21	1V5B	. CLAMP, Tube extension .....	1	-		
21a	COMM	. SCREW, Fil h machine corrosion res steel 10-24 x 3/4 in. lg .	2			
21b	COMM	. WASHER, Flat corrosion res steel No. 10 .....	2			
21c	1V10A	. BRACKET, Sunshade .....	1			
22	1V1B	. SUNSHADE, Matte box .....	1			
23	LMB41	. SCREW, Lock extension tube .....	2			
24	1V6	. TUBE, Extension .....	2			
25	MOA15	. SCREW, Thumb .....	1			
26	1V8	. DOWEL, Bracket .....	2			
27	1V4	. BRACKET, Double arm .....	1			

Figure and Index Number	PART NUMBER	DESCRIPTION	Units per Assembly	Usable on Code		
					1	2
4	No Number	MATTE BOX ASSY, 35mm large (Model 1-V-50) .....	1			
1	COMM	. SCREW, 82° csink flat hd corrosion res steel 2-56 x 1/8 in. lg .	4			
2	LMB1B	. RING, Pocket pola screen .....	1			
3	6	. SCREW, Knurled head .....	2			
4	AJ-26-7	. LOCK, Pola screen .....	2			
		(ATTACHING PARTS)				
5	No Number	. SCREW, Rd hd corrosion res steel 2-56 x 3/32 in. lg .....	2			
6	No Number	. SCREW, Rd hd corrosion res steel 2-56 x 5/32 in. lg .....	2			
		-----*				
7	LMB92	. PLUG, Lock short pola screen .....	1			
8	LMB99	. PLUG, Lock long pola screen .....	1			
9	LMB71	. STOP, Tube pola screen .....	1			
10	LMB70	. TUBE, Pola screen .....	1			
11	LMB2B	. HOLDER, Pola screen front .....	1			
		(ATTACHING PARTS)				
12	COMM	. SCREW, 82° csink flat hd corrosion res steel 2-56 x 1/4 in. lg .	4			
		-----*				
13	LMB33	. HOLDER ASSY, Filter 2 in. ....	1			
14	LMB5	. SPRING, Holder filter 2 in. ....	1			
		(ATTACHING PARTS)				
15	COMM	. SCREW, Rd hd corrosion res steel 2-56 x 1/8 in. lg .....	1			
		-----*				
16	LMB107	. BELLOWS ASSY .....	1			
		(ATTACHING PARTS)				
17	COMM	. SCREW, Rd hd corrosion res steel 2-56 x 1/8 in. lg .....	4			
18	LMB20	. SCREW, Stop bellows plate .....	2			
		-----*				
19	LMB11	. NUT, Clamp bellows extension .....	1			
20	LMB10	. CLAMP ASSY, Bellows extension .....	1			
21	LMB3B	. BRACKET, Holder filter 2 in. ....	1			
22	LMB73	. PLATE, End holder filter 3 in. ....	1			
		(ATTACHING PARTS)				
23	COMM	. SCREW, 82° csink flat hd corrosion res steel 2-56 x 3/6 in. lg .	2			
		-----*				
24	LMB31	. HOLDER ASSY, Filter 3 in. ....	1			
25	LMB7	. SPRING, Filter 3 in. ....	1			
		(ATTACHING PARTS)				
26	COMM	. SCREW, Rd hd corrosion res steel 2-56 x 1/8 in. lg .....	1			
		-----*				
27	LMB61	. PIN, Stop bellows plate .....	1			
28	LMB55	. SPRING, Bellows .....	1			
		(ATTACHING PARTS)				
29	COMM	. SCREW, Rd hd corrosion res steel 2-56 x 1/8 in. lg .....	1			
30	LMB54	. SCREW, Spring bellows .....	1			
		-----*				
31	LMB28LH	. SPRING, Frame gauze .....	1			
32	LMB28RH	. SPRING, Frame gauze .....	1			
		(ATTACHING PARTS)				
33	COMM	. PIN, Escutcheon No. 19 .....	2			
		-----*				
34	LMB24	. FRAME, Gauze .....	1			
35	LMB12	. HOLDER, Frame stationary gauze .....	1			
		(ATTACHING PARTS)				
36	COMM	. SCREW, 82° csink flat hd corrosion res steel 3-48 x 3/16 in. lg .	4			
		-----*				

Section II  
 Group Assembly Parts List

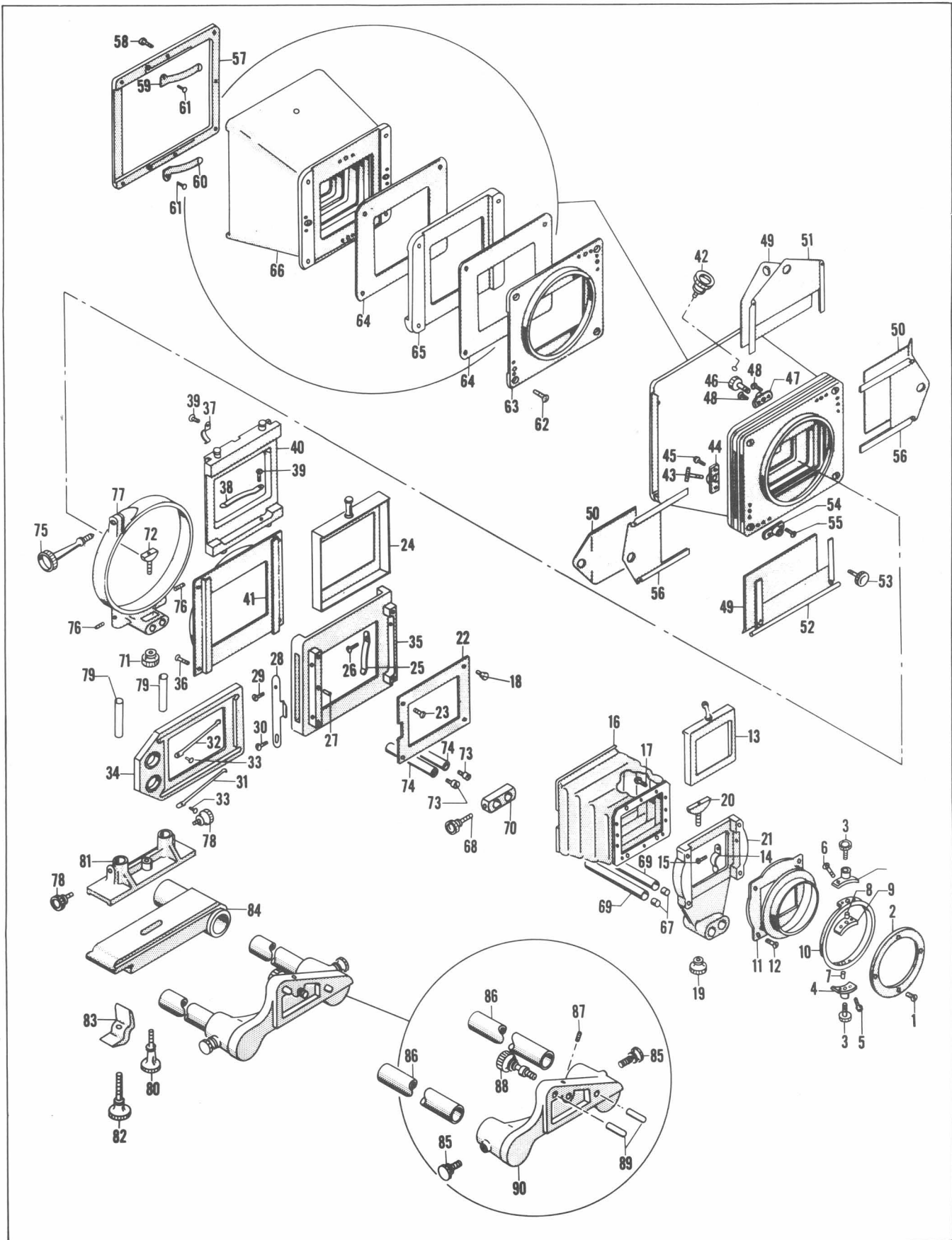


Figure 4. Large Matte Box Assembly

Figure and Index Number	PART NUMBER	DESCRIPTION	Units per Assembly	Usable on Code		
					1	2
4 (Cont)						
37	LMB53A	. SPRING, Frame gauze slide . . . . .	1			
38	LMB7	. SPRING, Frame holder gauze . . . . .	1			
		(ATTACHING PARTS)				
39	COMM	. SCREW, Rd hd corrosion res steel 2-56 x 1/8 in. lg . . . . .	2			
		-----*				
40	LMB13	. HOLDER ASSY, Frame moveable . . . . .	1			
41	LMB8	. COVER, Frame holder gauze. . . . .	1			
42	FS11	. SCREW, Holding extension shade . . . . .	1			
43	79	. SCREW, Lock matte . . . . .	2			
44	LMB46	. CLAMP, Matte side . . . . .	2			
		(ATTACHING PARTS)				
45	COMM	. SCREW, Rd hd corrosion res steel 2-56 x 3/16 in. lg . . . . .	4			
		-----*				
46	6	. SCREW, Lock matte. . . . .	2			
47	LMB45	. CLAMP, Matte . . . . .	2			
		(ATTACHING PARTS)				
48	COMM	. SCREW, Rd hd corrosion res steel 2-56 x 3/16 in. lg . . . . .	4			
		-----*				
49	LMB30	. MATTE, Vertical hard . . . . .	2			
50	LMB29	. MATTE, Horizontal hard . . . . .	2			
51	LMB102	. MATTE ASSY, Top horizontal . . . . .	1			
52	LMB101	. MATTE ASSY, Bottom horizontal . . . . .	1			
53	6	. SCREW, Lock matte. . . . .	4			
54	LMB45	. CLAMP, Matte . . . . .	4			
		(ATTACHING PARTS)				
55	COMM	. SCREW, Rd hd corrosion res steel 2-56 x 3/16 in. lg . . . . .	8			
		-----*				
56	LMB103	. MATTE ASSY, Side vertical . . . . .	2			
	LMB106	. SUNSHADE ASSY, Matte box large . . . . .	1			
57	LMB82A	. . PLATE, End sunshade . . . . .	1			
		(ATTACHING PARTS)				
58	COMM	. . SCREW, Fil h corrosion res steel 2-56 x 3/16 in. lg. . . . .	7			
		-----*				
59	LMB83	. . SPRING, Upper sunshade . . . . .	1			
60	LMB84	. . SPRING, Lower sunshade. . . . .	1			
		(ATTACHING PARTS)				
61	COMM	. . PIN, Escutcheon No. 19 . . . . .	2			
		-----*				
62	STD16-13	. . SCREW, 82° esink flat hd corrosion res steel 6-32 x 13/32 . . . . .	4			
		in. lg				
63	LMB15A	. . HOLDER, Half gauze . . . . .	1			
64	LMB18	. . SEPARATOR, Matte hard . . . . .	2			
65	LMB16	. . HOLDER, Matte hard . . . . .	1			
66	LMB35C	. . SUNSHADE. . . . .	1			
67	LMB57	. PLUG, Tube extension bellows. . . . .	2			
68	LMB41	. SCREW, Lock adjusting horizontal bellows. . . . .	1			
69	1V53	. TUBE, Extension bellows . . . . .	2			
70	LMB39	. CLAMP, Tube telescopic . . . . .	1			
71	LMB11	. NUT, Clamp tube extension bellows . . . . .	1			
72	LMB10	. CLAMP ASSY, Tube extension bellows . . . . .	1			
	LMB109	. ROD ASSY, Telescopic . . . . .	2			
73	LMB67	. . TIP, Rod telescopic. . . . .	1			
74	1V52	. . ROD, Telescopic. . . . .	1			
75	AM28-3A	. SCREW, Clamp ring sunshade . . . . .	1			
76	COMM	. SCREW, Set hex socket headless corrosion res steel 6-32 x . . . . .	2			
		3/16 in. lg				
77	LMB14	. RING, Clamp sunshade . . . . .	1			
78	LMB41	. SCREW, Adjusting vertical bracket. . . . .	2			
79	LMB40B	. ROD, Extension upright . . . . .	2			
80	LMB52	. SCREW, Adjusting horizontal. . . . .	1			
81	LMB34	. BRACKET, Slide side. . . . .	1			
82	AM28-5	. SCREW, Lock extension . . . . .	1			
83	LMB27	. CLAMP, Slide front . . . . .	1			
84	LMB22A	. SLIDE, Horizontal . . . . .	1			
	1V54	. BRACKET ASSY, Arm double . . . . .	1			
85	LMB41	. . SCREW, Tube extension bracket . . . . .	2			
86	LMB48	. . TUBE, Extension bracket . . . . .	2			
87	LMB59	. . SCREW, Set bracket arm double . . . . .	1			
88	AM28-6	. . SCREW, Locking camera . . . . .	1			
89	1V8	. . DOWEL, Bracket arm double . . . . .	2			
90	1V51	. . BRACKET, Arm double . . . . .	1			

Section II  
Group Assembly Parts List

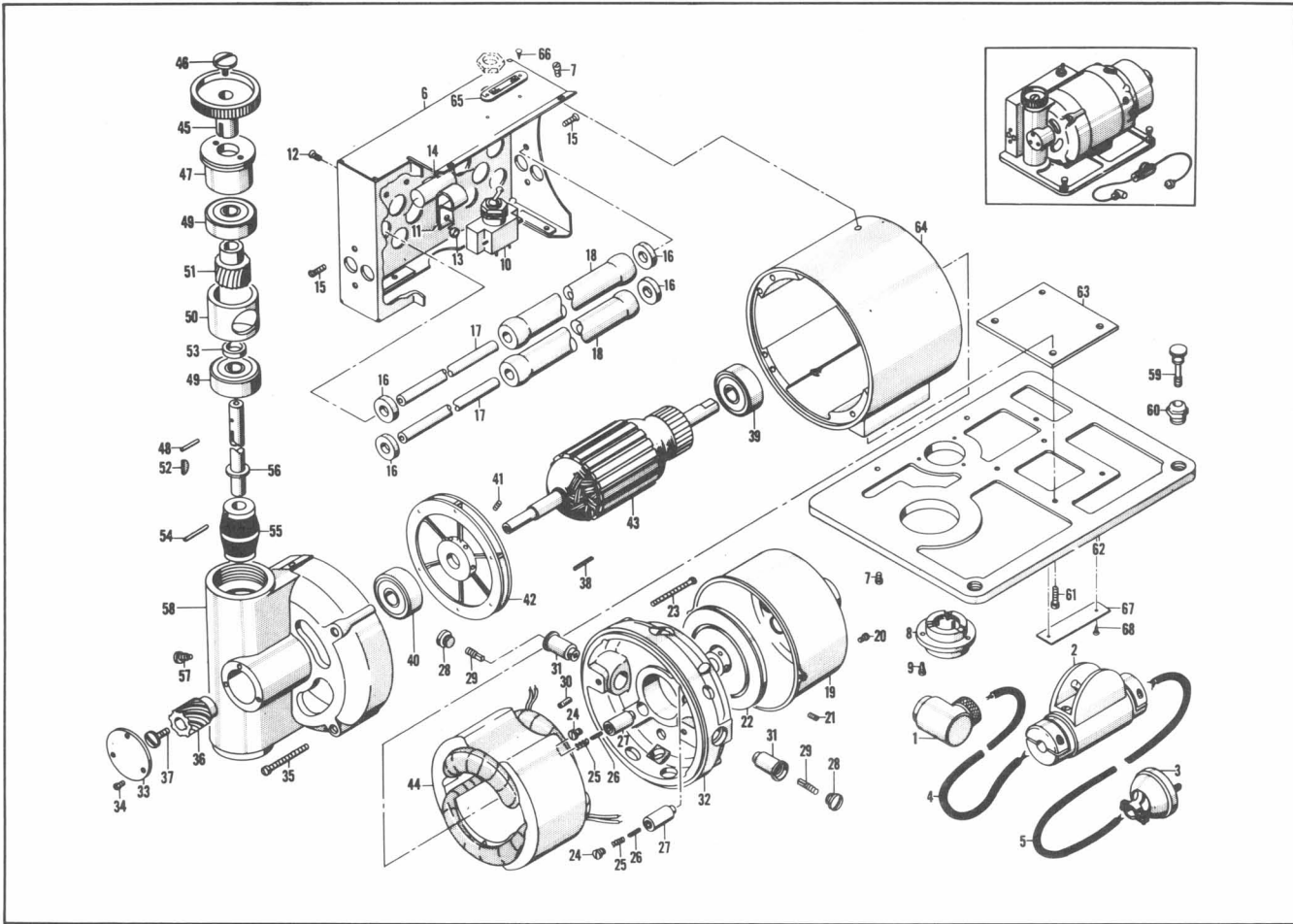


Figure 5. 110 Volt Variable Speed Motor Assembly

Figure and Index Number	PART NUMBER	DESCRIPTION	Units per Assembly							Usable on Code		
			1	2	3	4	5	6	7			
5	1W57	MOTOR ASSY, Variable speed 110 volt model . . . . .								1		
	ELC16	. CABLE ASSY, Motor variable speed . . . . .								1		
	ELC55	. CABLE ASSY, Motor variable speed, (No. 227 and on) . . . . .								1		
	1	ELP13	. . . CONNECTOR, Elbow . . . . .								1	
		ELP67	. . . CONNECTOR, Elbow, (No. 227 and on) . . . . .								1	
	2	ELS2	. . . SWITCH, Feed thru 7/16 in. cord hole (Macson Co) . . . . .								1	
	3	ELP14	. . . CONNECTOR, Male contact . . . . .								1	
	4	COMM	. . . CABLE, No. 16 2 conductor 13/32 x 24 in. lg . . . . .								1	
	5	COMM	. . . CABLE, No. 16 2 conductor 13/32 x 96 in. lg . . . . .								1	
	6	1W60A	. Box, Condenser . . . . .								1	
	7	COMM	(ATTACHING PARTS) . Screw, Fil h corrosion res steel 4-40 x 1/4 in. lg . . . . .								6	
	8	1R12	. . . CONNECTOR, Electrical . . . . .								1	
	1R83	. . . CONNECTOR, Electrical, (No. 227 and on) . . . . .								1		
9	3	(ATTACHING PARTS) . SCREW, Electrical connector . . . . .								3		
10	ELS6	. . . SWITCH, Forward and reverse . . . . .								1		
11	1W101	. . . CLAMP, Support loop type plain Al alloy 1/2 in. ID. . . . .								1		
12	COMM	(ATTACHING PARTS) . SCREW, 82° flat hd corrosion res steel 4-40 x 1/4 in. lg . . . . .								1		



Figure and Index Number	PART NUMBER	DESCRIPTION	Units per Assembly	Usable on Code		
					1	2
5 (Cont)						
13	COMM	. NUT, Light hex steel 4-40 NC2 . . . . .	1			
		-----*				
14	ELV2	. CONDENSER, Electrical 0.5 mf 200 WVDC 300 VDC test . . . . .	1			
15	COMM	. SCREW, 82° flat hd mach steel 3-48 x 5-1/16 in. lg . . . . .	4			
16	1W5	. SPACER, Resistor . . . . .	4			
17	1W6	. ROD, Resistor . . . . .	2			
18	ELR9	. RESISTOR, Electrical . . . . .	2			
19	1W67	. CONTROL AND COVER ASSY, Adjusting governor speed . . . . .	1			
		(ATTACHING PARTS)				
20	COMM	. SCREW, Fil h corrosion res steel 6-32 x 1/4 in. lg. . . . .	2			
		-----*				
21	COMM	. SCREW, Set hex socket headless corrosion res steel 8-32 x . . . . .	2			
		3/16 in. lg				
22	1W68	. GOVERNOR ASSY, Motor variable speed . . . . .	1			
23	COMM	. SCREW, Fil h corrosion res steel 6-32 x 1-1/8 in. lg . . . . .	4			
24	1W110	. CAP, Brush holder governor . . . . .	2			
25	1W111A	. SPRING, Brush governor . . . . .	2			
26	1W111B	. BRUSH, Governor . . . . .	2			
27	ELB19	. HOLDER, Brush governor. . . . .	2			
28	1W71	. CAP, Brush holder commutator . . . . .	2			
29	1W69	. BRUSH AND SPRING ASSY, Commutator . . . . .	2			
30	COMM	. SCREW, Set hex socket headless corrosion res steel 6-32 x . . . . .	2			
		1/4 in. lg				
31	1W70	. HOLDER, Brush commutator. . . . .	2			
32	1W112	. SHIELD ASSY, End brush holder . . . . .	1			
33	1W21	. COVER, Bell . . . . .	1			
		(ATTACHING PARTS)				
34	COMM	. SCREW, Fil h mach corrosion res steel 2-56 x 1/4 in. lg. . . . .	3			
		-----*				
35	COMM	. SCREW, Fil h mach corrosion res steel 6-32 x 1-1/8 in. lg . . . . .	4			
36	1W13	. GEAR, Drive . . . . .	1			
		(ATTACHING PARTS)				
37	5	. SCREW, Retaining drive gear . . . . .	1			
		-----*				
38	COMM	. KEY, Square steel 1/8 x 3/4 in. lg . . . . .	1			
	1W62	. ARMATURE ASSY, Motor . . . . .	1			
39	MBB51	. . BEARING, Ball (ND Part No. 9008dd or equivalent). . . . .	1			
40	MBB51	. . BEARING, Ball (ND Part No. 9008dd or equivalent). . . . .	1			
41	COMM	. . SCREW, Set hex socket headless corrosion res steel. . . . .	2			
		10-32 x 1/4 in. lg				
42	1W74	. . FAN, Rotor . . . . .	1			
43	1W79	. . ROTOR, Motor . . . . .	1			
44	1W73	. FIELD, Rotor . . . . .	1			
45	1W10A	. KNOB, Threading . . . . .	1			
		(ATTACHING PARTS)				
46	44	. SCREW, Knob threading . . . . .	1			
		-----*				
47	1W12	. NUT, Shaft . . . . .	1			
48	SDP1-14	. PIN, Dowel steel 1/16 x 7/16 in. lg . . . . .	1			
49	MBB12	. BEARING, Single felt seal (FAF Part No. 37KVT or . . . . .	2			
		equivalent)				
50	1W64	. SLEEVE, Spacing bearing . . . . .	1			
51	1W8	. GEAR, Driven. . . . .	1			
52	204	. KEY, Woodruff steel 1/16 x 1/2 in. lg. . . . .	1			
53	1W65	. WASHER, Spacing drive shaft . . . . .	1			
54	COMM	. PIN, Taper steel 5 x 5/8 in. lg . . . . .	1			
55	1R11	. COUPLING, Flexible . . . . .	1			
56	1W9A	. SHAFT, Drive. . . . .	1			
57	36	. SCREW, Retainer grease . . . . .	1			
58	1W58A	. BELL, Gear . . . . .	1			
59	MOA14	. SCREW, Thumb. . . . .	2			
60	1R28	. NUT, Thumb screw . . . . .	2			
61	COMM	. SCREW, Fil h mach corrosion res steel 10-32 x 7/16 in. lg . . . . .	4			
62	1W59A	. DOOR, Motor . . . . .	1			
63	1W63	. SPACER, Mounting . . . . .	1			
64	1W61	. HOUSING, Field . . . . .	1			
65	NP40	. PLATE, Indicator forward and reverse . . . . .	1			
		(ATTACHING PARTS)				
66	COMM	. SCREW, Drive type "U" No. 0 x 1/8 in. lg (PK) . . . . .	2			
		-----*				
67	NP10	. PLATE, Name 110 volt a-c d-c motor. . . . .	1			
		(ATTACHING PARTS)				
68	COMM	. SCREW, Drive type "U" No. 0 x 1/8 in. lg (PK) . . . . .	2			

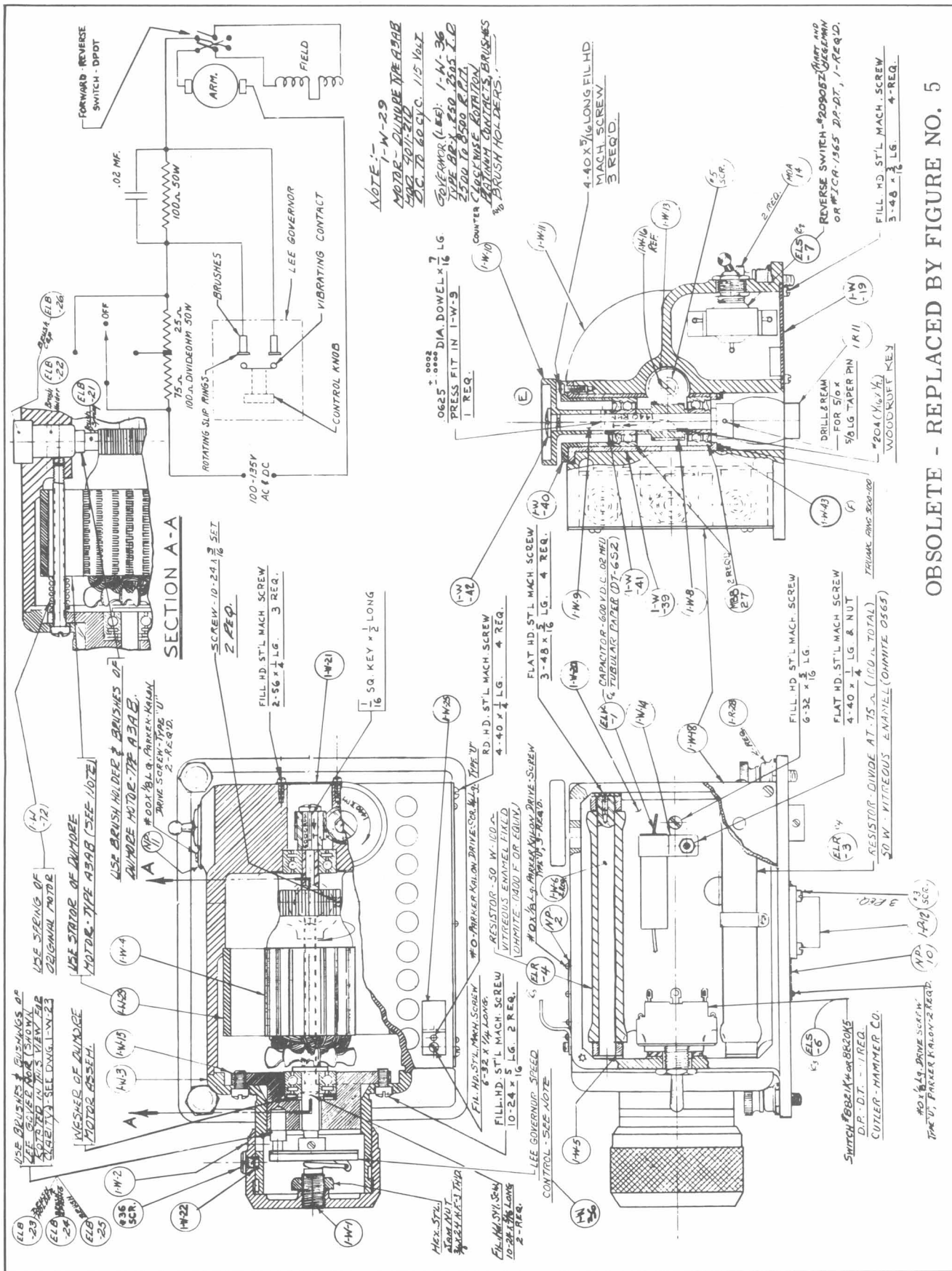
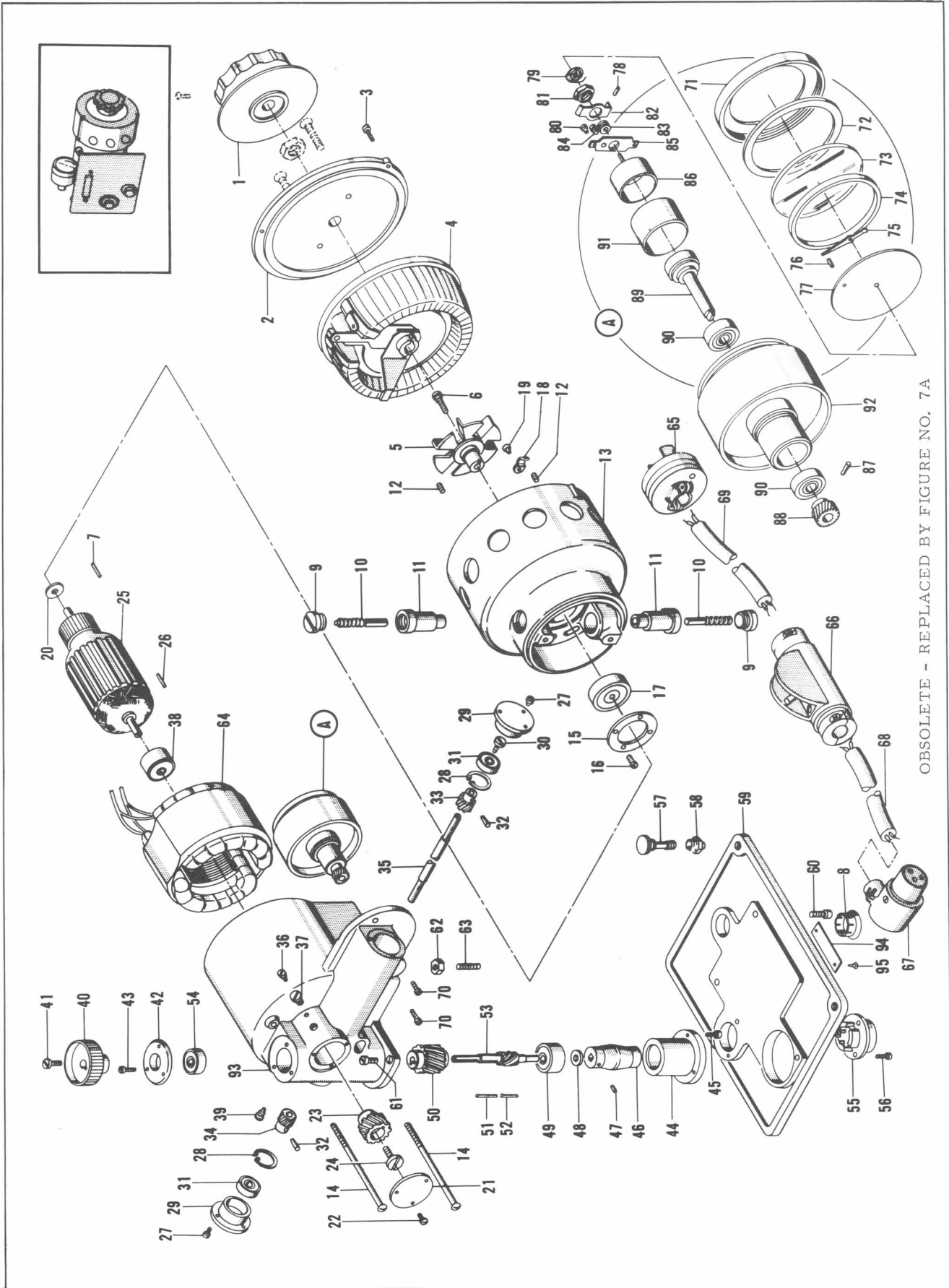


Figure and Index Number	PART NUMBER	DESCRIPTION	Units	Usable
			per Assembly	on Code
		1 2 3 4 5 6 7		
6		CODE: "a" designates parts used on Serial #1 thru #34 only		
		"b" designates parts used on Serial #35 thru #98 only		
	1W	MOTOR ASSY, Variable speed, 110 volt . . . . .		a
	1W	MOTOR ASSY, Variable speed, 110 volt . . . . .		b
	1W1	. GOVERNOR ADJUSTING BUTTON . . . . .	1	All
	1W2	. SPEED CONTROL KNOB . . . . .	1	All
	1W3	. END BELL . . . . .	1	All
	1W4	. ROTOR . . . . .	1	All
	1W5	. RESISTOR SPACER . . . . .	4	All
	1W6	. RESISTOR ROD . . . . .	2	All
	1W8	. DRIVEN GEAR . . . . .	1	All
	1W9	. DRIVE SHAFT . . . . .	1	All
	1W10	. THREADING KNOB . . . . .	1	All
	1W11	. MOTOR HOUSING . . . . .	1	All
	1W12	. NUT, Shaft . . . . .	1	a
	1W13	. DRIVER GEAR . . . . .	1	All
	1W14	. CAPACITOR CLIP . . . . .	1	All
	1W15	. BRUSH & GEAR HOUSING . . . . .	1	All
	1W18	. MOTOR COVER . . . . .	1	All
	1W19	. REVERSE SWITCH COVER . . . . .	1	All
	1W20	. RESISTOR MOUNTING PLATE . . . . .	1	All
	1W21	. HOUSING BORE COVER . . . . .	1	All
	1W22	. SPEED CONTROL KNOB FRICTION SHOE . . . . .	1	All
	1W25	. CABLE CLAMP . . . . .	1	All
	1W29	. FIELD . . . . .	1	All
	1W36	. LEE GOVERNOR . . . . .	1	All
	1W38	. BEARING CLAMP SCREW . . . . .	1	a
	1W39	. BEARING ADAPTOR . . . . .	1	b
	1W40	. BEARING CLAMP . . . . .	1	b
	1W41	. THREADING KNOB SPACER . . . . .	1	b
	1W42	. THREADING KNOB CLAMP SCREW . . . . .	1	b
	1W43	. WASHER, Felt . . . . .	1	b
	1W72	. FIELD TENSION SPRING . . . . .	1	All
	NP2	. NAMEPLATE . . . . .	1	All
	NP10	. VOLTAGE PLATE . . . . .	1	All
	NP11	. ROTATION DIRECTION PLATE . . . . .	1	All
	1R11	. FLEXIBLE COUPLING . . . . .	1	All
	1R12	. ELECTRICAL CONNECTOR . . . . .	1	All
	1R28	. NUT, Thumb screw . . . . .	2	All
	MOA14	. MOUNTING SCREW . . . . .	2	All
	#3	. ELECTRICAL CONNECTOR SCREW . . . . .	3	All
	#5	. DRIVE GEAR RETAINING SCREW . . . . .	1	All
	#36	. SPEED CONTROL KNOB ADJUSTING SCREW . . . . .	1	All
	#44	. SPEED CONTROL DRIVE ADJUSTMENT SCREW . . . . .	1	All
	ELV1	. CAPACITOR . . . . .	1	All
	ELS6	. SWITCH . . . . .	1	All
	ELS7	. SWITCH . . . . .	1	All
	ELR3	. RESISTOR . . . . .	1	All
	ELR4	. RESISTOR . . . . .	1	All
	MBB12	. BALL BEARING . . . . .	1	a
	MBB27	. BALL BEARING, Mitchell . . . . .	2	b
	MBB138	. BALL BEARING . . . . .	1	a
	#204	. KEY, Woodruff, 1-1/16 x 1/2 in. . . . .	1	b
	5000100	. RING, Truarc . . . . .	1	b
	ELC16	. CABLE, Complete . . . . .	1	All
	ELB21	. MOTOR BRUSH & SPRING . . . . .	2	All
	ELB22	. MOTOR BRUSH HOLDER . . . . .	2	All
	ELB23	. GOVERNOR BRUSH HOLDER . . . . .	2	All
	1W111	. GOVERNOR BRUSH AND SPRING ASSY . . . . .	2	All
	1W110	. MOTOR BRUSH HOLDER CAP . . . . .	2	All

Section II  
Group Assembly Parts List



OBSOLETE - REPLACED BY FIGURE NO. 7A

Figure 7. 24 Volt High Speed Motor Assembly

Figure and Index Number	PART NUMBER	DESCRIPTION	Units per Assembly	Usable on Code		
					1	2
		Code: "a" designates parts used only on Model 1-WA-24V (prior to camera Serial No. 227) "b" designates parts used only on Model 1-WA-110V (Serial No. 227 and on)				
7	No Number	MOTOR ASSY, High speed 24 volt (Model 1-WA-24V) . . . . . (3-prong) (obsolete, replaced by figure 7A)	1	a		
	No Number	MOTOR ASSY, High speed 110 volt (Model 1-WA-110V) . . . . . (4-prong) (obsolete, replaced by figure 7A)	1	b		
1	1WA32	. KNOB, Rheostat (altered from S-312-64L (KK)) . . . . .	1			
2	1WA4	. COVER, Bell . . . . . (ATTACHING PARTS)	1			
3	COMM	. SCREW, Fil h mach steel 6-32 x 3/8 in. lg . . . . . -----*-----	3			
4	ELR6	. RHEOSTAT, Motor high speed 24 volt . . . . .	1	a		
	ELR7	. RHEOSTAT, Motor high speed 110 volt . . . . .	1	b		
5	1WA38	. FAN ASSY, Motor . . . . . (ATTACHING PARTS)	1			
6	1WA31	. SCREW, Fan. . . . . -----*-----	1			
7	COMM	. KEY, Square steel 1/16 x 1/2 in. lg . . . . .	1			
8	1D28	. PLUG, Access hole brush . . . . .	1			
9	8582	. CAP, Brush (DU). . . . .	2	a		
	C451	. CAP, Brush (BN). . . . .	2	b		
10	8651	. BRUSH AND SPRING ASSY, Motor (DU). . . . .	2	a		
	2075-4-2	. BRUSH AND SPRING ASSY, Motor (BN). . . . .	2	b		
11	8506	. HOLDER ASSY, Brush (DU). . . . .	2	a		
	ELB18	. HOLDER ASSY, Brush (altered from C450 (BN)). . . . .	2	b		
12	COMM	. SCREW, Set hex socket headless steel 10-24 x 1/4 in. lg . . . . .	2			
13	1WA27	. BELL, End. . . . .	1	a		
	1WA2	. BELL, End. . . . . (ATTACHING PARTS)	1	b		
14	COMM	. SCREW, Rh hd corrosion res steel 10-24 x 3 in. lg . . . . . -----*-----	2			
15	MO124	. CLAMP, Bearing . . . . . (ATTACHING PARTS)	1			
16	COMM	. SCREW, Fil h mach corrosion res steel 4-40 x 5/16 in. lg. . . . . -----*-----	4			
17	39K	. BEARING, Double shield (FAF) . . . . .	1			
18	NC710	. CLAMP, Cable . . . . . (ATTACHING PARTS)	1			
19	COMM	. SCREW, Fil h mach corrosion res steel 6-32 x 3/16 in. lg. . . . . -----*-----	1			
20	1WA18	. SPACER, Bearing . . . . .	1			
21	1WA23	. COVER, Gear . . . . . (ATTACHING PARTS)	1			
22	COMM	. SCREW, Fil h mach corrosion res steel 3-48 x 1/4 in. lg. . . . . -----*-----	3			
23	1WA24	. GEAR, Drive . . . . .	1	a		
	1WA20	. GEAR, Drive . . . . . (ATTACHING PARTS)	1	b		
24	108	. SCREW, Drive gear . . . . . -----*-----	1			
25	1WA21	. ARMATURE, High speed motor 24 volt . . . . .	1	a		
	1WA19	. ARMATURE, High speed motor 110 volt . . . . .	1	b		
26	COMM	. KEY, Square steel 1/16 x 3/8 in. lg . . . . .	1			
27	COMM	. SCREW, Fil h mach corrosion res steel 3-48 x 1/4 in. lg. . . . .	6			
28	5000-50	. RING, Lock (WKI) . . . . .	2			
29	1WA10	. CAP, Bearing tachometer drive . . . . .	2			
30	15	. SCREW, Drive shaft. . . . .	1			
31	4666R	. BEARING, Tachometer drive (NH) . . . . .	2			
32	COMM	. PIN, Tapered steel 6 x 9/32 in. lg . . . . .	2			
33	1WA12	. GEAR, Tachometer drive . . . . .	1			
34	1WA11	. GEAR, First pinion tachometer . . . . .	1			
35	1WA9	. SHAFT, Tachometer drive . . . . .	1			
36	1WA37	. SCREW, Retainer bearing . . . . .	1			
37	AEF68	. SCREW, Retainer grease . . . . .	1			
38	1WA35	. BEARING, Armature shaft (altered from 36T (FAF)). . . . .	1			
39	1WA37	. SCREW, Retainer bearing . . . . .	1			
40	1WA28	. KNOB, Threading . . . . . (ATTACHING PARTS)	1			
41	15	. SCREW, Threading knob . . . . . -----*-----	1			
42	1WA6	. CAP, Housing gear . . . . .	1			

Section II  
Group Assembly Parts

Figure and Index Number	PART NUMBER	DESCRIPTION	Units per Assembly	Usable on Code		
					1	2
7 (Cont)		(ATTACHING PARTS)				
43	COMM	SCREW, Fil h mach corrosion res steel 3-48 x 1/4 in. lg. . . . .	3			
44	1WA5	FLANGE, Bearing . . . . .	1			
45	COMM	SCREW, Fil h mach corrosion res steel 3-48 x 1/4 in. lg. . . . .	3			
46	1R11	COUPLING, Flexible . . . . .	1			
47	COMM	PIN, Tapered steel 1 x 1/8 in. lg . . . . .	1			
48	1WA13	WASHER, Coupling flexible . . . . .	1			
49	37KVT	BEARING, Single felt seal (FAF) . . . . .	1			
50	1WA25	GEAR, Driven. . . . .	1	a		
	1WA8	GEAR, Driven. . . . .	1	b		
51	COMM	KEY, Square steel 1/16 x 1/2 in. lg . . . . .	1			
52	COMM	KEY, Square steel 1/16 x 5/8 in. lg . . . . .	1			
53	1WA7	SHAFT, Drive camera . . . . .	1			
54	1WA36	BEARING, Drive shaft camera (altered from 36K (FAF)) . . . . .	1			
55	1R12	CONNECTOR, Electrical . . . . .	1			
	1R83	CONNECTOR, Electrical (No. 227 and on) . . . . .	1			
56	3	SCREW, Electrical connector . . . . .	3			
57	MOA14	SCREW, Thumb. . . . .	2			
58	1R28	NUT, Thumb screw . . . . .	2			
59	1WA3	DOOR, Motor . . . . .	1			
60	COMM	SCREW, Fil h corrosion res steel 10-24 x 3/8 in. lg. . . . .	2			
61	COMM	SCREW, Fil h corrosion res steel 10-24 x 1/2 in. lg. . . . .	1			
62	COMM	NUT, Plain hex steel 10-24 NC2. . . . .	1			
63	COMM	SCREW, Set headless steel 10-24 x 5/8 in. lg. . . . .	1			
64	MO141	FIELD, Motor. . . . .	1	a		
	MO128	FIELD, Motor. . . . .	1	b		
	ELC17	CABLE ASSY, Electrical 12-24 volt (3-prong) . . . . .	1	a		
	ELC55	CABLE ASSY, Electrical 110-115 volt (4-prong) . . . . .	1	a		
65	7102	PLUG, Twist lock (HAW) . . . . .	1	a		
	7057	CONNECTOR, Straight male (HAW) . . . . .	1	b		
66	425B	SWITCH, Feed-thru (Macson Co) . . . . .	1			
67	ELP13	CONNECTOR, Elbow 3-prong . . . . .	1	a		
	ELP67	CONNECTOR, Elbow 4-prong . . . . .	1	b		
68	COMM	WIRE, Electric two conductor 16 gage 30 in. lg . . . . .	1			
69	COMM	WIRE, Electric two conductor 16 gage 96 in. lg . . . . .	1			
	1WA26	TACHOMETER ASSY, Motor high speed 24 volt . . . . .	1			
70	COMM	SCREW, Fil h mach corrosion res steel 4-40 x 5/16 in. lg. . . . .	2			
71	*NC193	CAP, Tachometer . . . . .	NP			
72	*NC195	WASHER, Cork. . . . .	NP			
73	*1K57	GLASS, Dial. . . . .	NP			
74	*1K56	SPACER, Dial . . . . .	NP			
75	*1K58	HAND, Tachometer . . . . .	NP			
76	*1WA33	PIN, Dowel . . . . .	NP			
77	*1WA30	DIAL, Tachometer . . . . .	NP			
78	*1K51	PIN, Adjusting lever hairspring. . . . .	NP			
79	*1K50	HAIRSPRING AND COLLET ASSY, Tachometer . . . . .	NP			
	*1K43	BRIDGE ASSY, Tachometer . . . . .	NP			
80	*COMM	SCREW, Fil h mach steel 2-56 x 1/8 in. lg . . . . .	NP			
81	*1K46	NUT, Lock stone bearing upper. . . . .	NP			
82	*1K44	LEVER, Adjusting hairspring. . . . .	NP			
83	*1K47	BEARING, Shaft . . . . .	NP			
84	*105	SCREW, Needle stop optical . . . . .	NP			
85	*1K45	BRIDGE, Tachometer . . . . .	NP			
86	*1K27	STAFF ASSY, Tachometer . . . . .	NP			
87	*COMM	PIN, Dowel steel 1/16 x 9/32 in. lg . . . . .	NP			
88	*1WA15	GEAR, Driven . . . . .	NP			
89	*1K24	MAGNET, SHAFT AND JEWEL ASSY, Tachometer. . . . .	NP			
see page 19 for usable on code for this page						

Figure and Index Number	PART NUMBER	DESCRIPTION	Units per Assembly	Usable on Code		
					1	2
7 (Cont)						
90	*MBB-7	. . BEARING, Ball double shield (ND) . . . . .	NP			
91	*1K26	. . SHIELD, Magnet tachometer . . . . .	NP			
92	*1WA16	. . HOUSING, Tachometer . . . . .	NP			
93	1WA1	. HOUSING, Motor . . . . .	1			
94	NP3	. PLATE, Motor 24 volt dc . . . . .	1	a		
	NP10	. PLATE, Motor 110 volt dc . . . . .	1	b		
		(ATTACHING PARTS)				
95	COMM	. SCREW, Drive type "U" No. 0 x 1/8 in. lg (PK) . . . . .	2			
		see page 19 for usable on code for this page				
		* "NP" denotes parts not procurable separately; for replacement order next higher assembly.				

Figure and Index Number	PART NUMBER	DESCRIPTION	Units per Assembly	Usable on Code		
					1	2
7a		Code: "A" designates parts used on 1WAG24 "B" designates parts used on 1WAG115				
	1WAG24	MOTOR ASSY, 24 volt 16 to 64 frames governor controlled . . . . . (Model 1WAG24) (used on cameras serial No. 348 and subsequent)	1			
	1WAG115	MOTOR ASSY, 115 volt 36 to 128 frame governor controlled . . . . . (Model 1WAG115)	1			
1	COMM	. SCREW, Fil h mach 10-24 x 3/8 in. lg . . . . .	2			
2	COMM	. SCREW, Fil h mach 10-24 x 1/2 in. lg . . . . .	1			
3	COMM	. SCREW . . . . .	1	A		
4	No Number	. SPACER . . . . .	1	A		
5	3	. SCREW . . . . .	3			
6	1R83	. CONNECTOR, Electrical . . . . .	1			
7	MOA14	. SCREW, Thumb . . . . .	2			
8	1R28	. NUT, Thumb screw . . . . .	2			
9	COMM	. SCREW, Drive type "U" No. 0 x 1/8 in. lg (PK) . . . . .	2			
10	NP3	. PLATE, 24 volt d-c motor . . . . .	1			
11	1D28	. PLUG, Brush access hole . . . . .	1			
12	1WA3	. DOOR, Motor . . . . .	1			
13	COMM	. SCREW, Bind h 4-40 x 1/4 in. lg . . . . .	2			
14	COMM	. SCREW, Flat h mach sc 3-48 x 5/16 in. lg . . . . .	4			
15	1W5	. SPACER, Resistor . . . . .	4	A		
	1W5	. SPACER, Resistor . . . . .	2	B		
16	1W6	. ROD, Resistor . . . . .	2			
17	0400K	. RESISTOR, 50 w 2 ohms ±5% tolerance (OM) . . . . .	1	A		
	0400C	. RESISTOR, 50 w 25 ohms ±5% tolerance (OM) . . . . .	1	B		
18	0400L	. RESISTOR, 50 w 3 ohms ±5% tolerance (OM) . . . . .	1	A		
	0400C	. RESISTOR, 50 w 25 ohms ±5% tolerance (OM) . . . . .	1	B		
19	ELS-6	. SWITCH, Double pole double throw . . . . .	1			
20	1W82	. SPACER, Switch mounting . . . . .	1			
21	ELV15	. CONDENSER, 2 mfd 200 volts astron . . . . .	1			
22	COMM	. RIVET, Round hd alum 1/16 x 1/8 in. lg . . . . .	2			
23	NP40	. NAMEPLATE . . . . .	1			
24	1WAG60	. BOX, Condenser resistor and switch . . . . .	1	A		
	1WAG116	. BOX, Condenser resistor and switch . . . . .	1	B		
25	COMM	. SCREW, Fil h mach 3-48 x 1/4 in. lg . . . . .	6			
26	5000-50	. RING, Bearing retaining (WKI) . . . . .	2			
27	MBB43	. BEARING . . . . .	2			
28	1WA10	. CAP, 24 and 110 volt high speed motor tach drive bearing . . . . .	2			
29	15	. SCREW . . . . .	1			
30	COMM	. PIN, Tapered 6/0 x 9/32 in. lg . . . . .	2			
31	1WAG12	. GEAR, Tachometer drive . . . . .	1	A		
	1WAG18	. DRIVER, 115 volt high speed motor second . . . . .	1	B		
32	1WAG11	. GEAR, Tachometer first pinion . . . . .	1	A		
	1WAG17	. PINION, 115 volt motor first driven . . . . .	1	B		

Section II  
Group Assembly Parts List

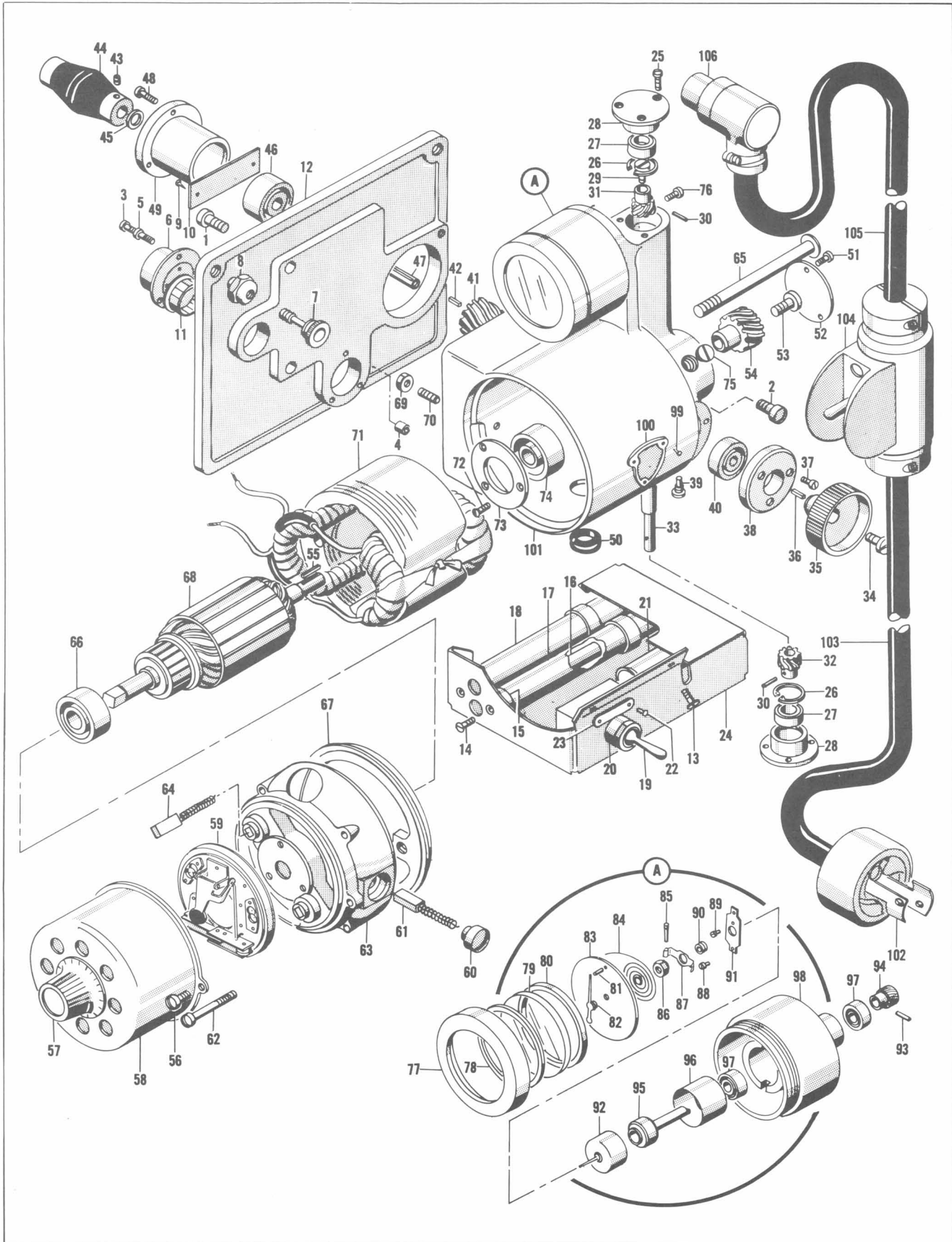


Figure 7A. Model 1WAG24 and 1WAG115 Governor Controlled Motor Assemblies



Figure and Index Number	PART NUMBER	DESCRIPTION	Units per Assembly	Usable on Code		
					1	2
7a (Cont)						
33	1WA9	. SHAFT, Tachometer drive . . . . .	1			
34	15	. SCREW . . . . .	1			
35	1WA28	. KNOB, Threading . . . . .	1			
36	COMM	. KEY, Square steel 1/16 x 1/2 in. lg . . . . .	1			
37	COMM	. SCREW, Fil h mach CRES 3/8 x 1/4 in. lg . . . . .	3			
38	1WA6	. CAP, Gear housing . . . . .	1			
39	1WA37	. SCREW, Bearing retainer . . . . .	1			
40	1WA36	. BEARING, Camera drive shaft (altered from 36K (FAF)) . . . . .	1			
41	1WAG25	. GEAR, 24 volt high speed motor driver . . . . .	1	A		
	1WAG66	. GEAR, 115 volt high speed motor drive . . . . .	1	B		
42	COMM	. KEY, Square steel 1/16 x 5/8 in. lg . . . . .	1			
43	COMM	. SCREW, Headless set . . . . .	1	A		
	COMM	. PIN, Taper CRES 5/0 x 5/8 in. lg . . . . .	1	B		
44	1R11	. COUPLING ASSY, Flexible . . . . .	1			
45	1WA13	. WASHER, Flexible coupling . . . . .	1			
46	MBB12	. BEARING, Ball . . . . .	1			
47	1WAG7	. SHAFT, Camera drive . . . . .	1	A		
	1WAG16	. SHAFT, Camera drive . . . . .	1	B		
48	COMM	. SCREW, Fil h mach CRES 3-48 x 1/4 in. lg . . . . .	3			
49	1WA5	. FLANGE, Bearing . . . . .	1			
50	ELG8	. GROMMET . . . . .	1			
51	COMM	. SCREW, Fil h mach CRES 3-48 x 1/4 in. lg . . . . .	3			
52	1WA23	. COVER, Gear . . . . .	1			
53	108	. SCREW, Drive gear . . . . .	1			
54	1WAG76	. GEAR, Drive . . . . .	1	A		
	1WAG62	. GEAR, 115 volt motor drive . . . . .	1	B		
55	COMM	. KEY, Square steel 1/16 x 3/8 in. lg . . . . .	1	A		
	COMM	. KEY, Square steel 1/16 x 1/2 in. lg . . . . .	1	B		
	1WAG6	. GOVERNOR ASSY, 24 volt 16 to 64 frame governor controlled . . . . .	1	A		
	1WAG69	. BRUSH AND END BELL ASSY, 115 volt governor controlled . . . . .	1	B		
56	COMM	. SCREW . . . . .	2			
57	1W67	. KNOB ASSY, Governor control . . . . .	1			
58	1W66	. COVER, End bell . . . . .	1			
59	1W105	. GOVERNOR ASSY, 24 volt motor . . . . .	1	A		
	1W120	. GOVERNOR ASSY, 115 volt motor . . . . .	1	B		
60	1W60	. CAP, Brush . . . . .	2	A		
	1WAG72	. CAP, Brush . . . . .	2	B		
61	1W106	. BRUSH AND SPRING, 24 volt motor . . . . .	2	A		
	1WAG74	. BRUSH AND SPRING, 115 volt motor . . . . .	2	B		
62	COMM	. SCREW, Fil h 6-32 x 1 1/8 in. lg . . . . .	4	A		
63	1W80	. BRUSH END BELL ASSY, 24 volt motor . . . . .	1	A		
	1WAG119	. BRUSH END BELL ASSY, 115 volt motor . . . . .	1	B		
64	1W109	. BRUSH, 24 volt governor . . . . .	2	A		
	1WAG70	. BRUSH, 115 volt governor . . . . .	2	B		
65	COMM	. SCREW, Round hd mach 10-24 x 2 3/4 in. lg . . . . .	2	A		
65	1WAG64	. SCREW, Housing retaining . . . . .	2	B		
66	MBB50	. BEARING, Single shield . . . . .	1			
67	1WAG2	. PLATE, Adapter . . . . .	1	A		
68	1WAG4	. ARMATURE, Bodine . . . . .	1	A		
68	1WAG67	. ARMATURE, 115 volt high speed governor controlled motor . . . . .	1	B		
69	COMM	. NUT, Hex 10-24 . . . . .	1			
70	COMM	. SCREW, Socket set 10-24 x 5/8 in. lg . . . . .	1	A		
70	COMM	. SCREW, Socket hd set CRES 10-24 x 1/2 in. lg . . . . .	1	B		
71	1WAG5	. STATOR, 24 volt Bodine . . . . .	1	A		
71	1WAG68	. FIELD, 115 volt high speed governor controlled motor . . . . .	1	B		
72	COMM	. SCREW, Flat hd mach 4-40 x 1/4 in. lg . . . . .	3			
73	1WAG3	. RING, Bearing clamp . . . . .	1			
74	MBB51	. BEARING, Double shield . . . . .	1			
75	AEF68	. PLUG, Grease . . . . .	1			
76	COMM	. SCREW, Fil h mach 4-40 x 5/16 in. lg . . . . .	2			
	1WAG21	. TACHOMETER ASSY, 115 volt governor controlled motor . . . . .	1	B		
	1WAG26	. TACHOMETER ASSY, 16 to 64 frames . . . . .	1	A		
77	NC193	. CAP, Tachometer . . . . .	1	A		
78	NC195	. WASHER, Tachometer . . . . .	1	A		
79	1K57	. GLASS, Tachometer dial . . . . .	1	A		
80	1K56	. SPACER, Tachometer dial . . . . .	1	A		
81	1WA33	. PIN, 3/64 x 9/32 in. lg . . . . .	1	A		
82	1K58	. HAND, Tachometer . . . . .	1	A		
83	1WAG30	. DIAL, Tachometer . . . . .	1	A		
84	1K50	. HAIRSPRING AND COLLET ASSY, Tachometer . . . . .	1	A		

see page 21 for usable on code for this page

Section II  
Group Assembly Parts List

Figure and Index Number	PART NUMBER	DESCRIPTION						Units per Assembly	Usable on Code	
		1	2	3	4	5	6			7
7a (Cont)										
85	1K51	.	.	.	.	.	.	.	1	A
86	1K46	.	.	.	.	.	.	.	1	A
87	1K44	.	.	.	.	.	.	.	1	A
88	COMM	.	.	.	.	.	.	.	2	A
	1K43	.	.	.	.	.	.	.	1	A
89	105	.	.	.	.	.	.	.	1	A
90	1K47	.	.	.	.	.	.	.	1	A
91	1K45	.	.	.	.	.	.	.	1	A
92	1K27	.	.	.	.	.	.	.	1	A
93	1WA33	.	.	.	.	.	.	.	1	A
94	1WAG15	.	.	.	.	.	.	.	1	A
95	1K24	.	.	.	.	.	.	.	1	A
96	1K26	.	.	.	.	.	.	.	1	A
97	MBB7	.	.	.	.	.	.	.	2	A
98	1WA16	.	.	.	.	.	.	.	1	A
99	COMM	.	.	.	.	.	.	.	3	
100	NP2	.	.	.	.	.	.	.	1	
101	1WAG1	.	.	.	.	.	.	.	1	A
101	1WAG65	.	.	.	.	.	.	.	1	B
	ELC56	.	.	.	.	.	.	.	1	A
	ELC55	.	.	.	.	.	.	.	1	B
102	7102	.	.	.	.	.	.	.	1	
103	COMM	.	.	.	.	.	.	.	1	A
	COMM	.	.	.	.	.	.	.	1	B
104	ELS2	.	.	.	.	.	.	.	1	A
	425B	.	.	.	.	.	.	.	1	B
105	COMM	.	.	.	.	.	.	.	1	A
	COMM	.	.	.	.	.	.	.	1	B
106	ELP67	.	.	.	.	.	.	.	1	
see page 21 for usable on code for this page										

Figure and Index Number	PART NUMBER	DESCRIPTION						Units per Assembly	Usable on Code	
		1	2	3	4	5	6			7
8										
	1R46								1	a
	1R47								1	b
	1R1	.	.	.	.	.	.	.	1	All
	1R2	.	.	.	.	.	.	.	1	a
	1R31B	.	.	.	.	.	.	.	1	b
	1R3B	.	.	.	.	.	.	.	1	a
	1R30B	.	.	.	.	.	.	.	1	b
	1R4	.	.	.	.	.	.	.	1	All
	1R5	.	.	.	.	.	.	.	1	All
	1R6	.	.	.	.	.	.	.	1	All
	1R7	.	.	.	.	.	.	.	1	All
	1R8	.	.	.	.	.	.	.	1	All
	1R10B	.	.	.	.	.	.	.	1	All
	1R11	.	.	.	.	.	.	.	1	All
	1R12	.	.	.	.	.	.	.	1	All
	1R13	.	.	.	.	.	.	.	1	All
	1R14	.	.	.	.	.	.	.	1	All
	1R15	.	.	.	.	.	.	.	1	All
	1R16	.	.	.	.	.	.	.	1	All
	1R17	.	.	.	.	.	.	.	1	All
	1R18	.	.	.	.	.	.	.	1	All
	1R19	.	.	.	.	.	.	.	1	All
	1R20	.	.	.	.	.	.	.	1	All
	1R27	.	.	.	.	.	.	.	1	All
	1R28	.	.	.	.	.	.	.	2	All
	1R29	.	.	.	.	.	.	.	1	b
	1R33	.	.	.	.	.	.	.	1	All
	1R35	.	.	.	.	.	.	.	1	All
	1R56	.	.	.	.	.	.	.	1	All

Section II  
Group Assembly Parts List

Figure and Index Number	PART NUMBER	DESCRIPTION	Units per Assembly	Usable on Code		
					1	2
7a (Cont)						
85	1K51	. . . PIN, Tachometer hairspring adjusting lever . . . . .	1	A		
86	1K46	. . . NUT, Tachometer upper endstone bearing lock . . . . .	1	A		
87	1K44	. . . LEVER, Tachometer hairspring adjusting . . . . .	1	A		
88	COMM	. . . SCREW, Fil h mach 0-80 x 1/8 in. lg. . . . .	2	A		
	1K43	. . . BRIDGE ASSY, Tachometer . . . . .	1	A		
89	105	. . . SCREW . . . . .	1	A		
90	1K47	. . . BEARING ASSY, Tachometer upper staff . . . . .	1	A		
91	1K45	. . . BRIDGE, Tachometer . . . . .	1	A		
92	1K27	. . . STAFF ASSY, Tachometer . . . . .	1	A		
93	1WA33	. . . PIN, Dowel 3/64 x 9/32 in. lg. . . . .	1	A		
94	1WAG15	. . . GEAR, Tachometer drive . . . . .	1	A		
95	1K24	. . . MAGNET SHAFT AND JEWEL ASSY, Tachometer . . . . .	1	A		
96	1K26	. . . SHIELD, Tachometer . . . . .	1	A		
97	MBB7	. . . BEARING, Ball . . . . .	2	A		
98	1WA16	. . . HOUSING, Tachometer . . . . .	1	A		
99	COMM	. . . SCREW, Type "U" drive 0 x 1/8 in. lg (PK) . . . . .	3			
100	NP2	. . . PLATE, Name . . . . .	1			
101	1WAG1	. . . HOUSING, 24 volt 16 to 64 frames motor . . . . .	1	A		
101	1WAG65	. . . HOUSING, 115 volt high speed motor . . . . .	1	B		
	ELC56	. . . CABLE ASSY, Motor (24 volt) . . . . .	1	A		
	ELC55	. . . CABLE ASSY, Electrical 115 volt (4-prong) . . . . .	1	B		
102	7102	. . . PLUG, Twist lock (HAW) . . . . .	1			
103	COMM	. . . CABLE, 14-2 conductor 96 in. lg . . . . .	1	A		
	COMM	. . . CABLE, 16-2 conductor 96 in. lg . . . . .	1	B		
104	ELS2	. . . SWITCH, Feed through . . . . .	1	A		
	425B	. . . SWITCH, Feed-thru (MAES) . . . . .	1	B		
105	COMM	. . . CABLE, 14-2 conductor 24 in. lg . . . . .	1	A		
	COMM	. . . CABLE, 16-2 conductor 24 in. lg . . . . .	1	B		
106	ELP67	. . . CONNECTOR, Elbow . . . . .	1			
		see page 21 for usable on code for this page				

Figure and Index Number	PART NUMBER	DESCRIPTION	Units per Assembly	Usable on Code		
					1	2
8		CODE: "a" designates parts used on Model 1R46 "b" designates parts used on Model 1R47				
	1R46	MOTOR ASSY, Synchronous, 230V, 3-phase . . . . .	1	a		
	1R47	MOTOR ASSY, Synchronous, 110V, single-phase . . . . . (obsolete, replaced by figure 9)	1	b		
	1R1	. . . END BELL . . . . .	1	All		
	1R2	. . . FIELD . . . . .	1	a		
	1R31B	. . . FIELD . . . . .	1	b		
	1R3B	. . . ARMATURE . . . . .	1	a		
	1R30B	. . . ARMATURE . . . . .	1	b		
	1R4	. . . GEAR & BEARING HOUSING . . . . .	1	All		
	1R5	. . . THRUST WASHER . . . . .	1	All		
	1R6	. . . DRIVE GEAR, 60 cycle . . . . .	1	All		
	1R7	. . . DRIVE GEAR, 50 cycle . . . . .	1	All		
	1R8	. . . GEAR NUT . . . . .	1	All		
	1R10B	. . . BEARING HOUSING . . . . .	1	All		
	1R11	. . . FLEXIBLE COUPLING . . . . .	1	All		
	1R12	. . . ELECTRICAL CONNECTOR . . . . .	1	All		
	1R13	. . . PINION SHAFT BEARING . . . . .	1	All		
	1R14	. . . PINION SHAFT . . . . .	1	All		
	1R15	. . . DRIVEN GEAR, 60 cycle . . . . .	1	All		
	1R16	. . . DRIVEN GEAR, 50 cycle . . . . .	1	All		
	1R17	. . . PLUG . . . . .	1	All		
	1R18	. . . LOCKNUT, Adjusting screw . . . . .	1	All		
	1R19	. . . ADJUSTING SCREW . . . . .	1	All		
	1R20	. . . BALL THRUST PLUG . . . . .	1	All		
	1R27	. . . MOTOR DOOR . . . . .	1	All		
	1R28	. . . NUT, Thumb screw . . . . .	2	All		
	1R29	. . . CONDENSER COVER . . . . .	1	b		
	1R33	. . . UPPER PINION SHAFT BEARING . . . . .	1	All		
	1R35	. . . GEAR END BELL COVER . . . . .	1	All		
	1R56	. . . OUTER SPACER . . . . .	1	All		







Section II  
Group Assembly Parts List

Figure and Index Number	PART NUMBER	DESCRIPTION	1 2 3 4 5 6 7							Units per Assembly	Usable on Code
			1	2	3	4	5	6	7		
8 (Cont)	1R61	. THREADING KNOB . . . . .								1	All
	NP2	. NAMEPLATE . . . . .								1	All
	NP18	. VOLTAGE PLATE . . . . .								1	All
	NP34	. ROTATION DIRECTION PLATE . . . . .								1	All
	#3	. ELECTRICAL CONNECTOR SCREW . . . . .								3	All
	#5	. THREADING KNOB SCREW . . . . .								1	All
	MOA14	. THUMBSCREW . . . . .								2	All
	ELC14	. CABLE, Complete . . . . .								1	a
	ELC36	. CABLE, Complete (see figure 10) . . . . .								1	b
	ELC14	. CABLE, Complete 3 prong . . . . .								1	a
	ELC14A	. CABLE, Complete 4 prong . . . . .								1	a
	ELP13	. CONNECTOR, Elbow, 3 prong . . . . .								1	a
	ELP67	. CONNECTOR, Elbow, 4 prong . . . . .								1	a
	COMM	. WIRE, Electric two conductor 16 gage . . . . .								1	a
	ELS2	. SWITCH, Feed-thru . . . . .								1	a
	ELV5	. CONDENSER . . . . .								1	b
	ELG3	. RUBBER GROMMET, #3 . . . . .								1	b

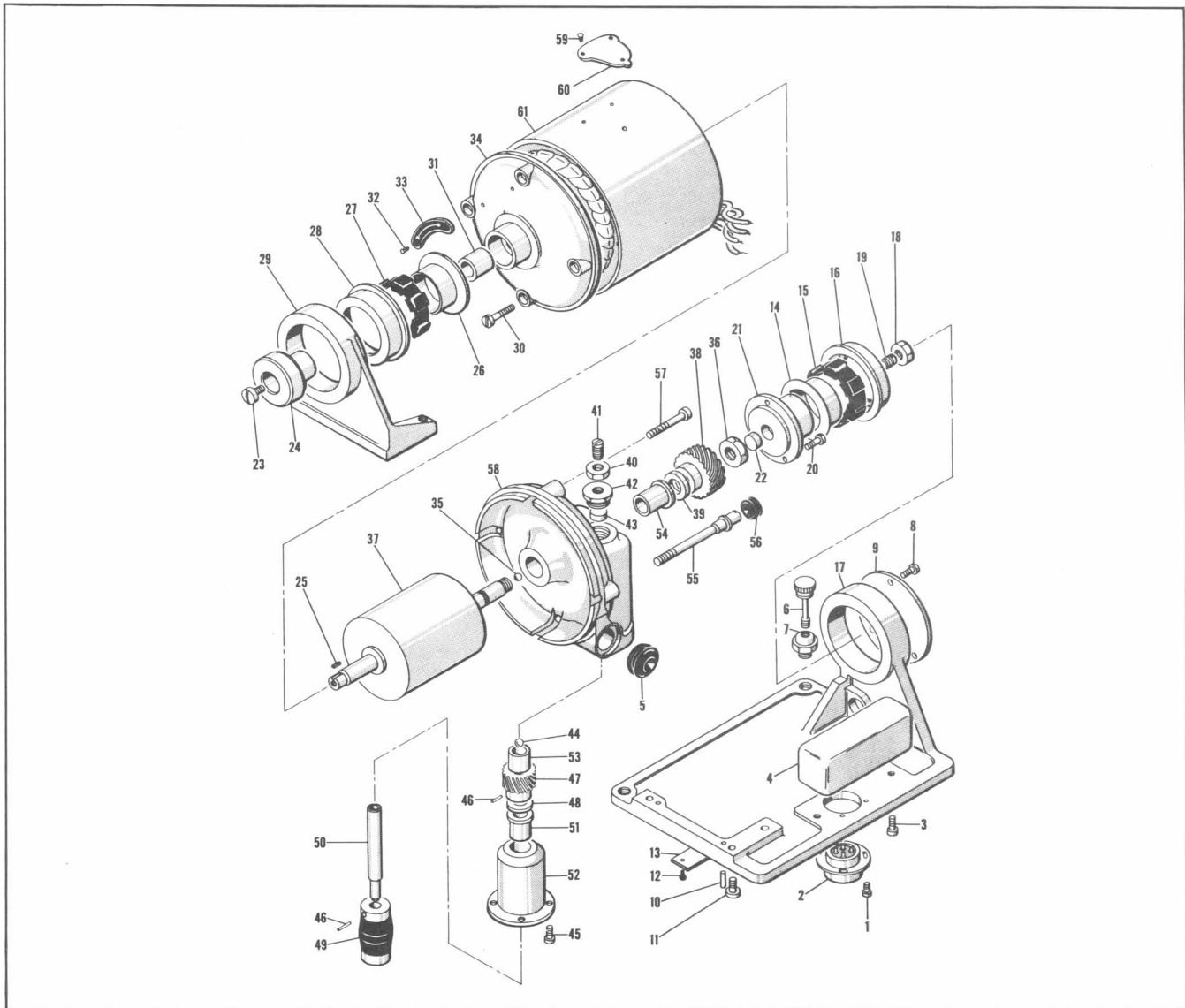


Figure 9. Model 1R70 Synchronous Motor Assembly

Figure and Index Number	PART NUMBER	DESCRIPTION							Units per Assembly	Usable on Code
		1	2	3	4	5	6	7		
9		CODE: "a" denotes parts used on 50 cycle motors only "b" denotes parts used on 60 cycle motors only Uncoded parts are used on both motors MOTOR ASSY, 115V single phase synchronous								
1	1-R-70	. SCREW, Special . . . . .							3	All
2	3	. PLUG, Male . . . . .							1	All
3	1R83	. SCREW, Fillister head, steel, 6-32 x 3/8 in. lg . . . . .							2	All
4	COMM	. COVER, Synchronous motor . . . . .							1	All
5	1R79	. GROMMET . . . . .							1	All
6	ELG-8	. SCREW, Adjustable . . . . .							2	All
7	MOA-14	. NUT, Thumb . . . . .							2	All
8	1-R-28	. SCREW, Fillister head, steel, 4-40 x 1/4 in. lg . . . . .							3	All
9	COMM	. COVER, Gear end . . . . .							1	All
10	1-R-80	. DOWEL, 1/8 x 1/2 in. lg . . . . .							2	All
11	COMM	. SCREW, Fillister head, steel, 10-24 x 5/16 in. lg . . . . .							3	All
12	COMM	. SCREW, Drive, type U, steel No. 0 x 1/8 in. lg . . . . .							2	All
13	NP-18	. NAMEPLATE, Synchronous motor . . . . .							1	All
14	1-R-76	. RING, Insulator, inner . . . . .							1	All
15	1-R-77	. RING, Insulator, rubber . . . . .							1	All
16	1-R-75	. RING, Insulator, outer . . . . .							1	All
17	1-R-71	. DOOR . . . . .							1	All
18	1-R-18	. NUT . . . . .							1	All
19	NC414	. SCREW, Set . . . . .							1	All
20	35	. SCREW . . . . .							3	All
21	1-R-78	. CONNECTOR, Gear housing . . . . .							1	All
22	NC-158	. PIVOT . . . . .							1	All
23	5	. SCREW, Special . . . . .							1	All
24	1-R-81	. KNOB . . . . .							1	All
25	COMM	. KEY, 1/16 x 1/16 x 5/32 in. lg . . . . .							1	All
26	1-R-76	. RING, Insulator, inner . . . . .							1	All
27	1-R-77	. RING, Insulator, rubber . . . . .							1	All
28	1-R-75	. RING, Insulator, outer . . . . .							1	All
29	1-R-73	. BRACKET . . . . .							1	All
30	COMM	. SCREW, Fillister head, steel, 8-32 x 11/16 in. lg . . . . .							4	All
31	1-R-56	. BEARING, Motor interlock . . . . .							1	All
32	COMM	. SCREW, Drive, type U, steel, No. 0 x 1/8 in. lg . . . . .							2	All
33	NP34	. PLATE, RH arrow . . . . .							1	All
34	1-R-72	. BELL, End . . . . .							1	All
35	COMM	. BALL, steel, 3/16 in. dia . . . . .							1	All
36	1-R-8	. NUT, Gear . . . . .							1	All
37	1-R-30B	. ARMATURE, 115V, single phase, 4 pole motor . . . . .							1	All
38	1-R-7	. GEAR . . . . .							1	a
38	1-R-6	. GEAR . . . . .							1	b
39	1-R-5	. WASHER, Thrust . . . . .							1	All
40	1-R-18	. NUT, Lock . . . . .							1	All
41	NC414	. SCREW, Set . . . . .							1	All
42	1-R-17	. NUT, Adjusting . . . . .							1	All
43	NC158	. PIVOT . . . . .							1	All
44	COMM	. BALL, 3/16 in. dia . . . . .							1	All
45	COMM	. SCREW, Fillister head, steel 6-32 x 5/16 in. lg . . . . .							4	All
46	COMM	. PIN, Taper, 5/0 . . . . .							2	All
47	1-R-16	. PINON . . . . .							1	a
47	1-R-15	. PINON . . . . .							1	b
48	B-5-18	. WASHER, Thrust . . . . .							1	All
49	1-R-11	. COUPLING ASSY, Flexible . . . . .							1	All
50	1-R-14	. SHAFT; Pinion . . . . .							1	All
51	1-R-13	. BEARING, Pinion shaft . . . . .							1	All
52	1-R-10B	. HOUSING, Bearing . . . . .							1	All
53	1-R-33	. BEARING, Upper pinion shaft . . . . .							1	All
54	1-R-69	. BEARING, Armature thrust . . . . .							1	All
55	1-R-82	. SCREW, Coupling stabilizer . . . . .							1	All
56	ELG3	. GROMMET . . . . .							1	All
57	COMM	. SCREW, Fillister head steel, 4-40 x 1-1/4 in. lg . . . . .							3	All
58	1-R-74	. HOUSING, Gear . . . . .							1	All
59	COMM	. SCREW, Drive, type U, steel No. 0 x 1/8 in. lg . . . . .							3	All
60	NP-2	. NAMEPLATE . . . . .							1	All
61	1-R-57	. STATOR, 115V, single phase, 4 pole, 50 cycle . . . . .							1	a
61	1-R-31B	. STATOR, 115V, single phase, 4 pole, 60 cycle . . . . .							1	b



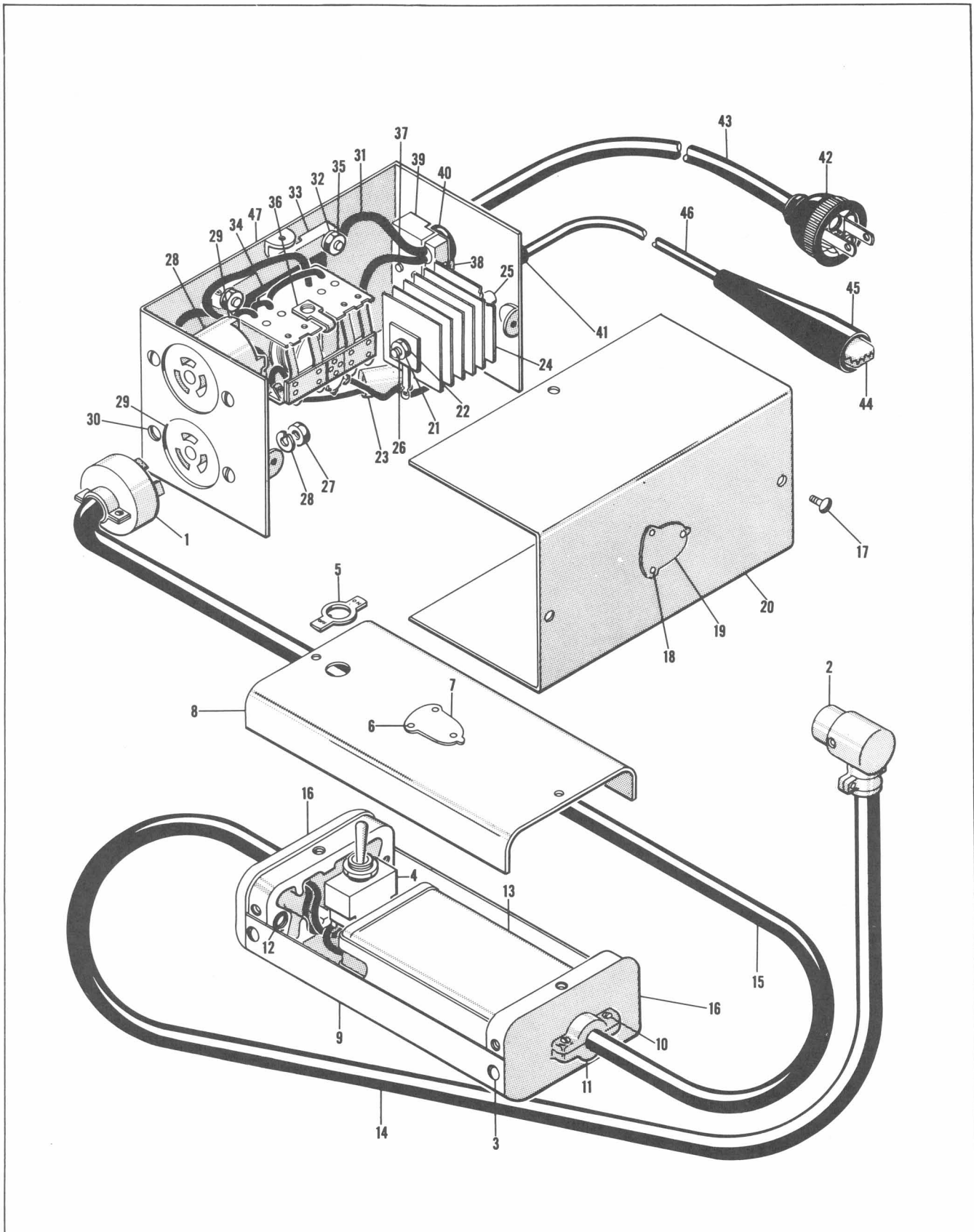


Figure 10. Capacitor Box ELS30A and Cable Assembly ELC53

Figure and Index Number	PART NUMBER	DESCRIPTION	Units per Assembly	Usable on Code		
					1	2
10	No Number	MOTOR ELECTRICAL Components . . . . .	1			
	ELC53	. CABLE ASSY, 110V single phase, 4 pole, synchronous, . . . . . 4 prong	1			
	ELC36	. CABLE ASSY, 110V 3 prong . . . . .	1			
1	ELP42	. . . PLUG, Hubble twist lock . . . . .	1			
	ELP14	. . . CONNECTOR, Straight male . . . . .	1			
2	ELP67	. . . CONNECTOR, 90° cable, 4 prong . . . . .	1			
	ELP13	. . . CONNECTOR, 90° cable, 3 prong . . . . .	1			
3	COMM	. . . SCREW, Oval hd machine 6-32 x 1/4 in. lg . . . . .	12			
4	ELS25	. . . SWITCH . . . . .	1			
5	NP51	. . . INSTRUCTION PLAGE . . . . .	1			
6	COMM	. . . SCREW, Drive . . . . .	3			
7	NP56	. . . NAMEPLATE . . . . .	1			
8	ELC54	. . . SIDE, Condenser box . . . . .	1			
9	ELC28	. . . SIDE, Condenser box . . . . .	1			
10	COMM	. . . SCREW, Filister head 6-32 x 5/16 in. lg . . . . .	4			
11	ELC27	. . . CLAMP . . . . .	2			
12	COMM	. . . SCREW, Rd hd mach 8-32 x 3/8 in. lg . . . . .	3			
13	ELV8	. . . CAPACITOR, 4 mfd, 1000V dc . . . . .	1			
14	COMM	. . . CABLE, No. 16-4 . . . . .	1			
15	COMM	. . . CABLE, No. 16-3 . . . . .	1			
16	ELC26	. . . END, Condenser box . . . . .	2			
	ELS30A	. CAPACITOR BOX, 115V 60 cycle power supply . . . . .	1			
17	COMM	. . . SCREW, Binding hd 6-32 x 1/4 in. lg . . . . .	4			
18	3	. . . PIN, Escutcheon . . . . .	3			
19	NP57	. . . NAMEPLATE . . . . .	1			
20	ELS31	. . . COVER . . . . .	1			
21	COMM	. . . NUT, Hex 8-32 . . . . .	1			
22	8	. . . LOCKWASHER . . . . .	1			
23	ELV11	. . . CAPACITOR . . . . .	1			
24	ELV13A	. . . RECTIFIER . . . . .	1			
25	ELS36A	. . . SPACER . . . . .	1			
26	COMM	. . . SCREW, Binding head 8-32 x 2-5/8 in. lg . . . . .	1			
27	COMM	. . . NUT, Hex 6-32 . . . . .	4			
28	COMM	. . . LOCKWASHER, 6-32 . . . . .	4			
29	ELP69	. . . RECEPACLE . . . . .	2			
30	COMM	. . . SCREW, Binding hd 6-32 x 3/8 in. lg . . . . .	4			
31	COMM	. . . NUT, Hex 6-32 . . . . .	4			
32	COMM	. . . LOCKWASHER, 6-32 . . . . .	4			
33	ELS33	. . . CLAMP . . . . .	2			
34	ELS34	. . . LINER . . . . .	2			
35	COMM	. . . SCREW, Binding head 6-32 x 1/2 in. lg . . . . .	4			
36	ELR20	. . . RELAY . . . . .	1			
37	COMM	. . . SCREW, Binding head 6-32 x 1/2 in. lg . . . . .	2			
38	COMM	. . . SCREW, Fillister hd 6-32 x 5/8 in. lg . . . . .	2			
39	ELS32	. . . CLAMP . . . . .	1			
40	ELG8A	. . . GROMMET . . . . .	1			
41	ELG2	. . . GROMMET . . . . .	1			
42	ELP-41	. . . PLUG . . . . .	1			
43	COMM	. . . CABLE, Type S, 16-2, (Tyrex) 4 ft lg . . . . .	1			
44	ELP-70	. . . CLIP . . . . .	1			
45	ELP-71	. . . INSULATOR . . . . .	1			
46	590-C	. . . CABLE, 4.5 ft. lg charging . . . . .	1			
47	ELS-29	. . . CHASSIS . . . . .	1			

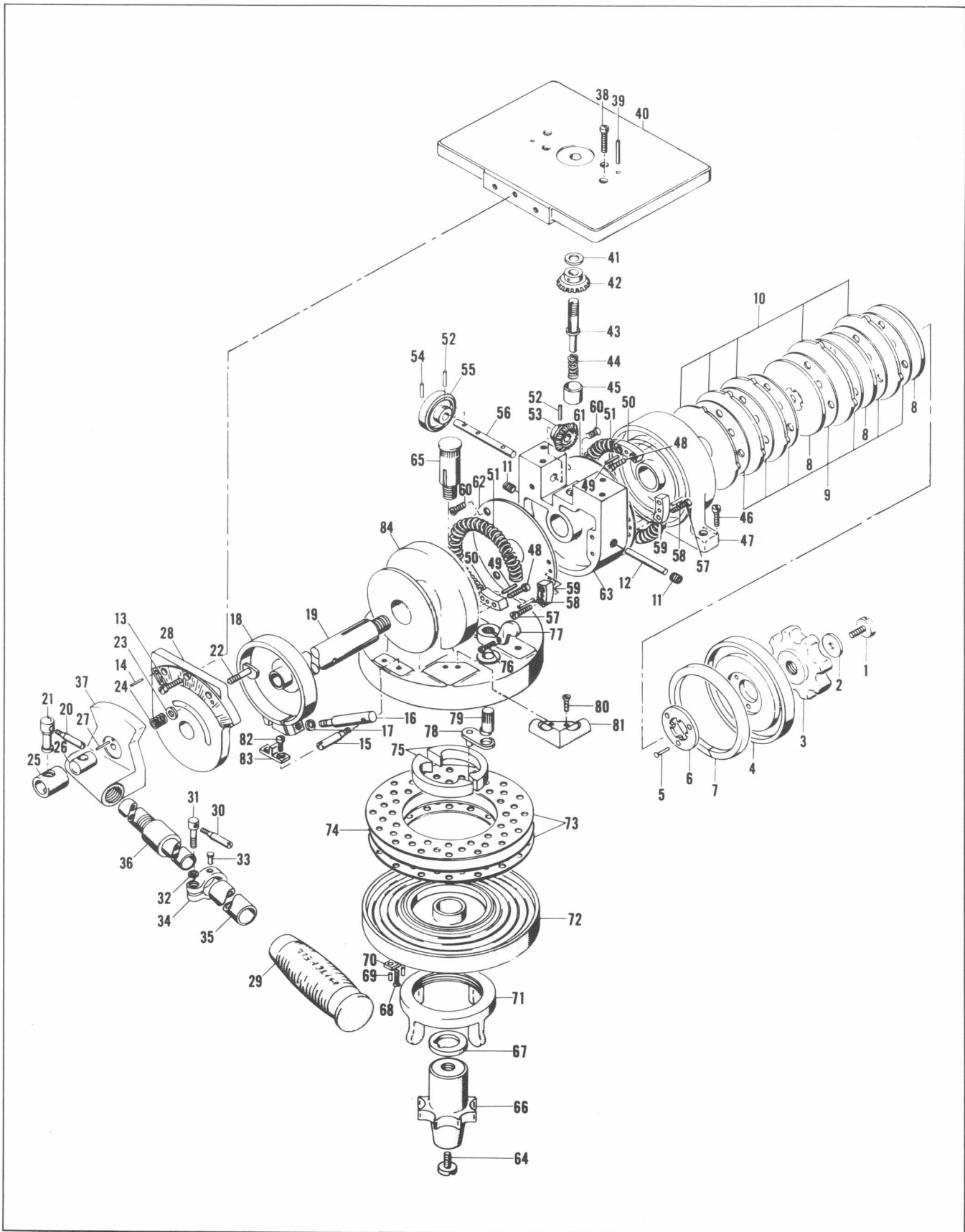


Figure 11. 16mm Friction Head Assembly

Figure and Index Number	PART NUMBER	DESCRIPTION	Units per Assembly	Usable on Code		
					1	2
11	1U	HEAD ASSY, Friction hd 16 mm (used on cameras Serial No. . . . . 210 and on)	1			
1	1U1	. SCREW, Pan retaining . . . . .	1			
2	1U19	. WASHER, Friction hd. . . . .	1			
3	1U20	. NUT, Hand. . . . .	1			
	1U17	. PLATE ASSY, Pressure . . . . .	1			
4	1U44	. . PLATE, Pressure. . . . .	1			
5	COMM	. . RIVET, Copper 1/8 dia x 7/16 in. lg . . . . .	3			
6	FH61A	. . INSERT, Steel . . . . .	1			
7	1U45	. . SEAL, Felt . . . . .	1			
8	FH11A	. PLATE, Friction small . . . . .	3			
9	FH48	. WASHER, Fiber tilt . . . . .	7			
10	FH11	. PLATE, Friction large. . . . .	5			
11	COMM	. SCREW, Socket hd 5/16-24 x 5/16 in. lg . . . . .	2			
12	No Number	. PIN, Taper No. 3 x 1-3/4 in. lg. . . . .	1			
13	COMM	. SCREW, Fil h No. 8-32 x 5/8 in. lg . . . . .	3			
14	No Number	. PIN, Dowel 1/8 dia x 5/8 in. lg . . . . .	2			
15	FH42A	. LEVER, Lock extension handle . . . . .	1			
16	1U38	. STUD, Clamp . . . . .	1			
17	1U55	. WASHER, Brake handle . . . . .	1			
18	1U37	. BRAKE, Friction tilt . . . . .	1			
19	1U18	. SHAFT, Tilt . . . . .	1			
20	FH42A	. LEVER, Lock extension handle . . . . .	1			
21	FH49A	. STUD, Lock extension handle. . . . .	1			
22	1U11	. SCREW, Lock . . . . .	1			
23	1U10	. WASHER, Friction hd. . . . .	1			
24	1U9	. SPRING, Handle . . . . .	1			
25	1U7	. SLEEVE, Cam . . . . .	1			
26	1U6	. BEARING, Cam. . . . .	1			
27	No Number	. PIN, Dowel 1/16 dia x 3/8 in. lg . . . . .	1			
28	1U39	. BRACKET, End. . . . .	1			
	1U56	. HANDLE ASSY, Friction head . . . . .	1			
29	1U52	. . GRIP, Friction hd . . . . .	1			
30	FH42A	. . LEVER, Lock extension handle . . . . .	1			
31	FH49A	. . STUD, Lock extension handle . . . . .	1			
32	1U55	. . WASHER, Brake handle . . . . .	1			
	1U13	. . SHELL ASSY, Handle . . . . .	1			
33	COMM	. . . RIVET, Copper 0.105 dia x 1/4 in. lg . . . . .	2			
34	*1U48	. . . CLAMP, Handle . . . . .	NP			
35	*1U50	. . . SHELL, Extension handle . . . . .	NP			
36	1U12	. . TUBE, Handle . . . . .	1			
37	1U5	. BRACKET, Handle. . . . .	1			
38	COMM	. SCREW, Fil h No. 10-24 x 7/8 in. lg . . . . .	4			
39	No Number	. PIN, Dowel 1/8 dia x 1 in. lg. . . . .	2			
40	1U35	. PLATE, Top . . . . .	1			
41	FH58	. WASHER, Friction hd. . . . .	1			
42	B8-13	. GEAR ASSY, Camera lock. . . . .	1			
43	B8-2	. SCREW, Locking . . . . .	1			
44	B8-3	. SPRING, Lock screw . . . . .	1			
45	B8-4	. GUARD, Spring . . . . .	1			
46	COMM	. SCREW, Fil h 1/4-20 thd x 5/8 in. lg . . . . .	2			
47	1U67	. SIDEPiece ASSY. . . . .	1			
48	COMM	. SCREW, Fil h 1/4-20 thd x 5/8 in. lg . . . . .	4			
49	No Number	. PIN, Dowel 3/8 dia x 5/8 in. lg . . . . .	2			
50	1U16	. STOP, Spring . . . . .	2			
51	1U14	. SPRING, Tilt . . . . .	2			
	1U34	. CENTERPIECE ASSY, Friction hd . . . . .	1			
52	No Number	. . PIN, Taper No. 3/0 x 5/8 in. lg . . . . .	2			
53	B8-6	. . GEAR, Crank . . . . .	1			
54	B5-9A	. . PIN, Taper No. 3/0. . . . .	1			
55	B7-11	. . KNOB, Hold-down . . . . .	1			
56	1U40	. . SHAFT, Gear crank. . . . .	1			
57	COMM	. . SCREW, Fil h No. 8-32 x 5/8 in. lg . . . . .	4			
58	No Number	. . PIN, Dowel 3/16 dia x 3/4 in. lg . . . . .	2			
59	1U16	. . STOP, Spring . . . . .	2			
60	COMM	. . SCREW, Standard 17-12 . . . . .	4			
61	1U42	. . PLATE, Cover RH . . . . .	1			
62	1U43	. . PLATE, Cover LH . . . . .	1			
63	1U41	. . CENTERPIECE, Friction hd . . . . .	1			
64	1U1	. SCREW, Pan retaining . . . . .	1			
65	1U29	. STUD, Pan . . . . .	1			
66	1U28	. NUT, Pan lock . . . . .	1			
67	1U2	. WASHER, Pan. . . . .	1			
68	COMM	. SCREW, Flat hd No. 6-32 x 3/8 in. lg. . . . .	1			

Section II  
Group Assembly Parts List

Figure and Index Number	PART NUMBER	DESCRIPTION	Units per Assembly	Usable on Code		
					1	2
11(Cont)						
69	No Number	. PIN, Dowel 3/32 dia x 1/4 in. lg . . . . .	2			
70	1U3	. KEY, Friction hd. . . . .	1			
71	1U27	. NUT, Hold down . . . . .	1			
72	1U68	. TABLE, Turn . . . . .	1			
73	1U24	. WASHER, Pan. . . . .	2			
74	1U25	. DISC, Friction . . . . .	1			
75	1U30	. SHOE, Brake . . . . .	2			
76	COMM	. SCREW, Flat hd No. 6-32 x 3/8 in. lg. . . . .	1			
77	1U21	. HANDLE, Lock . . . . .	1			
78	1U26	. LINK ASSY, Brake. . . . .	1			
79	1U22	. CAM, Lock. . . . .	1			
80	COMM	. SCREW, Flat hd No. 3-48 x 3/8 in. lg. . . . .	2			
81	FH76	. LEVEL, Friction hd. . . . .	1			
82	COMM	. SCREW, Flat hd No. 8-32 x 3/8 in. lg. . . . .	2			
83	1U36	. GUIDE, Brake. . . . .	1			
84	1U32	. FRAME, Friction hd . . . . .	1			
		* Denotes parts not procurable as a separate part				

Figure and Index Number	PART NUMBER	DESCRIPTION	Units per Assembly	Usable on Code		
					1	2
12	No Number	TRIPOD ASSY, 16 mm (Model 1-T) (used on cameras serial No. . . . . 210 and on)	1			
1	B3-4	. NUT, Hinge rod. . . . .	3			
2	B3-6	. NUT, Friction cone . . . . .	3			
3	B3-11	. ROD AND NUT ASSY, Hinge . . . . .	3			
4	B3-9	. TIE DOWN, Tripod . . . . .	3			
	1T3	. HEAD ASSY, Tripod. . . . .	1			
5	1T1	. INSERT, Tripod head steel . . . . . (ATTACHING PARTS)	1			
6	COMM	. SCREW, 82° csink flat hd corrosion res steel 10-32 x 3/8 . . . . . in. lg -----*-----	1			
7	1T2	. HEAD, Tripod . . . . .	1			
8	B3-2	. STRAP, Leg inside . . . . .	6			
9	B3-3	. STRAP, Leg outside. . . . . (ATTACHING PARTS)	6			
10	B3-7	. SCREW, Male leg clamp . . . . .	30			
11	B3-8	. SCREW, Female leg clamp . . . . . -----*-----	30			
12	B9-11	. KNOB, Adjusting . . . . .	6			
13	B9-10	. STUD, Locking leg clamp LH. . . . .	3			
14	B9-9	. STUD, Locking leg clamp RH. . . . .	3			
15	B9-5	. PLATE, Locking . . . . . (ATTACHING PARTS)	6			
16	COMM	. SCREW, Flat hd for wood corrosion res steel No. 4 x 1/2 in. lg. -----*-----	18			
17	B9-12	. CLAMP ASSY, Lock LH . . . . .	3			
18	B9-13	. CLAMP ASSY, Lock RH . . . . .	3			
19	B9-8	. CLAMP, Outside leg . . . . .	6			

Section II  
Group Assembly Parts List

Figure and Index Number	PART NUMBER	DESCRIPTION	Units per Assembly	Usable on Code		
					1	2
11(Cont)						
69	No Number	. PIN, Dowel 3/32 dia x 1/4 in. lg . . . . .	2			
70	1U3	. KEY, Friction hd. . . . .	1			
71	1U27	. NUT, Hold down . . . . .	1			
72	1U68	. TABLE, Turn . . . . .	1			
73	1U24	. WASHER, Pan. . . . .	2			
74	1U25	. DISC, Friction . . . . .	1			
75	1U30	. SHOE, Brake . . . . .	2			
76	COMM	. SCREW, Flat hd No. 6-32 x 3/8 in. lg. . . . .	1			
77	1U21	. HANDLE, Lock . . . . .	1			
78	1U26	. LINK ASSY, Brake. . . . .	1			
79	1U22	. CAM, Lock. . . . .	1			
80	COMM	. SCREW, Flat hd No. 3-48 x 3/8 in. lg. . . . .	2			
81	FH76	. LEVEL, Friction hd. . . . .	1			
82	COMM	. SCREW, Flat hd No. 8-32 x 3/8 in. lg. . . . .	2			
83	1U36	. GUIDE, Brake. . . . .	1			
84	1U32	. FRAME, Friction hd . . . . .	1			
		* Denotes parts not procurable as a separate part				

Figure and Index Number	PART NUMBER	DESCRIPTION	Units per Assembly	Usable on Code		
					1	2
12	No Number	TRIPOD ASSY, 16 mm (Model 1-T) (used on cameras serial No. . . . . 210 and on)	1			
1	B3-4	. NUT, Hinge rod. . . . .	3			
2	B3-6	. NUT, Friction cone . . . . .	3			
3	B3-11	. ROD AND NUT ASSY, Hinge . . . . .	3			
4	B3-9	. TIE DOWN, Tripod . . . . .	3			
	1T3	. HEAD ASSY, Tripod. . . . .	1			
5	1T1	. INSERT, Tripod head steel . . . . . (ATTACHING PARTS)	1			
6	COMM	. SCREW, 82° csink flat hd corrosion res steel 10-32 x 3/8 . . . . . in. lg -----*-----	1			
7	1T2	. HEAD, Tripod . . . . .	1			
8	B3-2	. STRAP, Leg inside . . . . .	6			
9	B3-3	. STRAP, Leg outside. . . . . (ATTACHING PARTS)	6			
10	B3-7	. SCREW, Male leg clamp . . . . .	30			
11	B3-8	. SCREW, Female leg clamp . . . . . -----*-----	30			
12	B9-11	. KNOB, Adjusting . . . . .	6			
13	B9-10	. STUD, Locking leg clamp LH. . . . .	3			
14	B9-9	. STUD, Locking leg clamp RH. . . . .	3			
15	B9-5	. PLATE, Locking . . . . . (ATTACHING PARTS)	6			
16	COMM	. SCREW, Flat hd for wood corrosion res steel No. 4 x 1/2 in. lg. -----*-----	18			
17	B9-12	. CLAMP ASSY, Lock LH . . . . .	3			
18	B9-13	. CLAMP ASSY, Lock RH . . . . .	3			
19	B9-8	. CLAMP, Outside leg . . . . .	6			

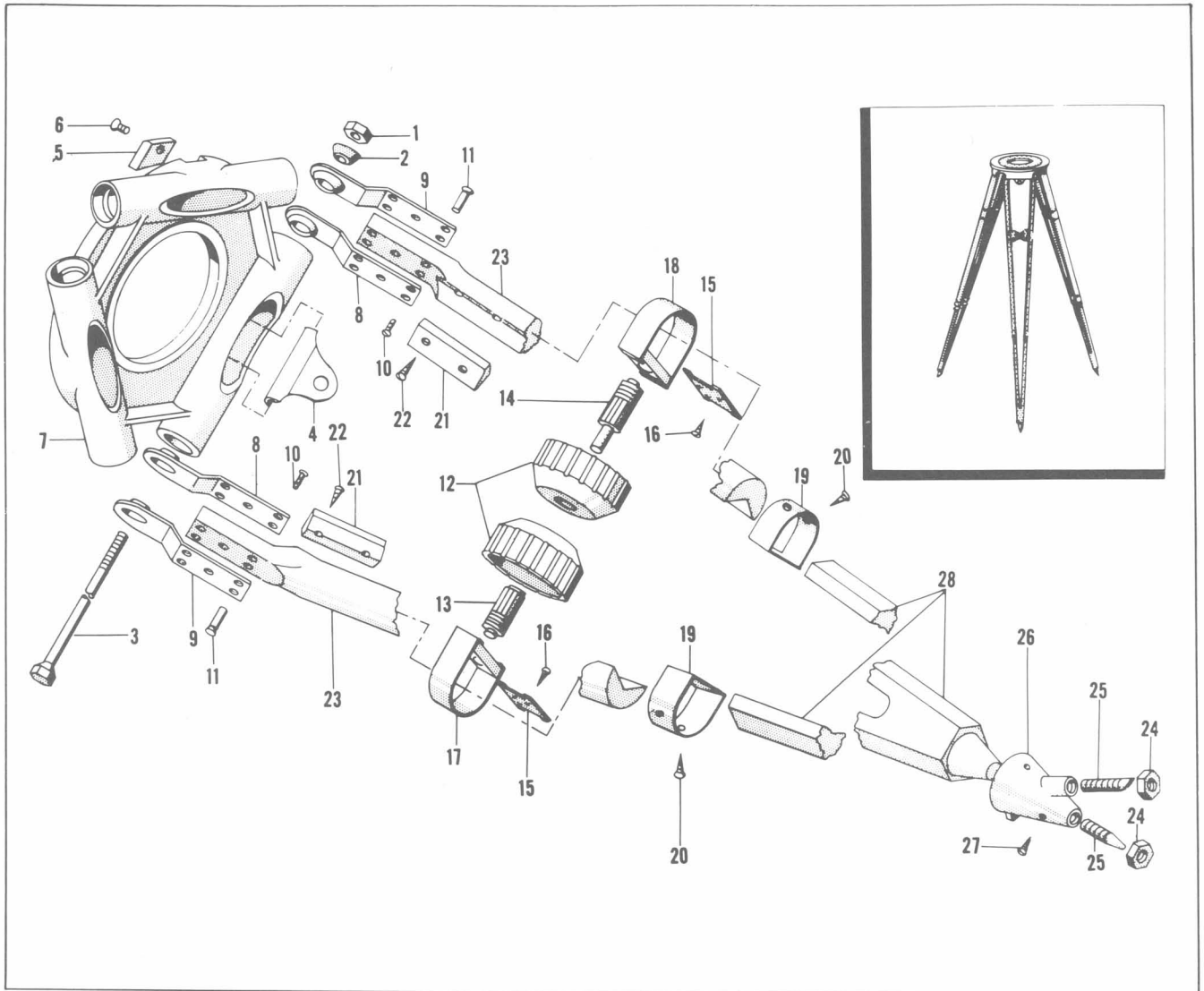


Figure. 12. 16mm Tripod Assembly

Figure and Index Number	PART NUMBER	DESCRIPTION	1 2 3 4 5 6 7							Units per Assembly	Usable on Code	
12 (Cont)		(ATTACHING PARTS)										
20	COMM	SCREW, Oval hd for wood steel nickel plated No. 3 x 3/8 in. lg. -----*									18	
21	B10-3	BLOCK, Stop . . . . .									6	
22	COMM	(ATTACHING PARTS) SCREW, Oval hd for wood steel No. 4 x 7/8 in. lg. -----*									12	
23	B10-1A	LEG, Outside . . . . .									6	
24	B3-4	NUT, Tripod point . . . . .									6	
25	B9-2	POINT, Tripod . . . . .									6	
26	B9-1A	SHOE, Tripod . . . . .									3	
27	COMM	(ATTACHING PARTS) SCREW, Oval hd for wood steel nickel plated No. 4 x 5/8 in. lg. -----*									9	
28	B10-2	LEG ASSY, Inside . . . . .									3	

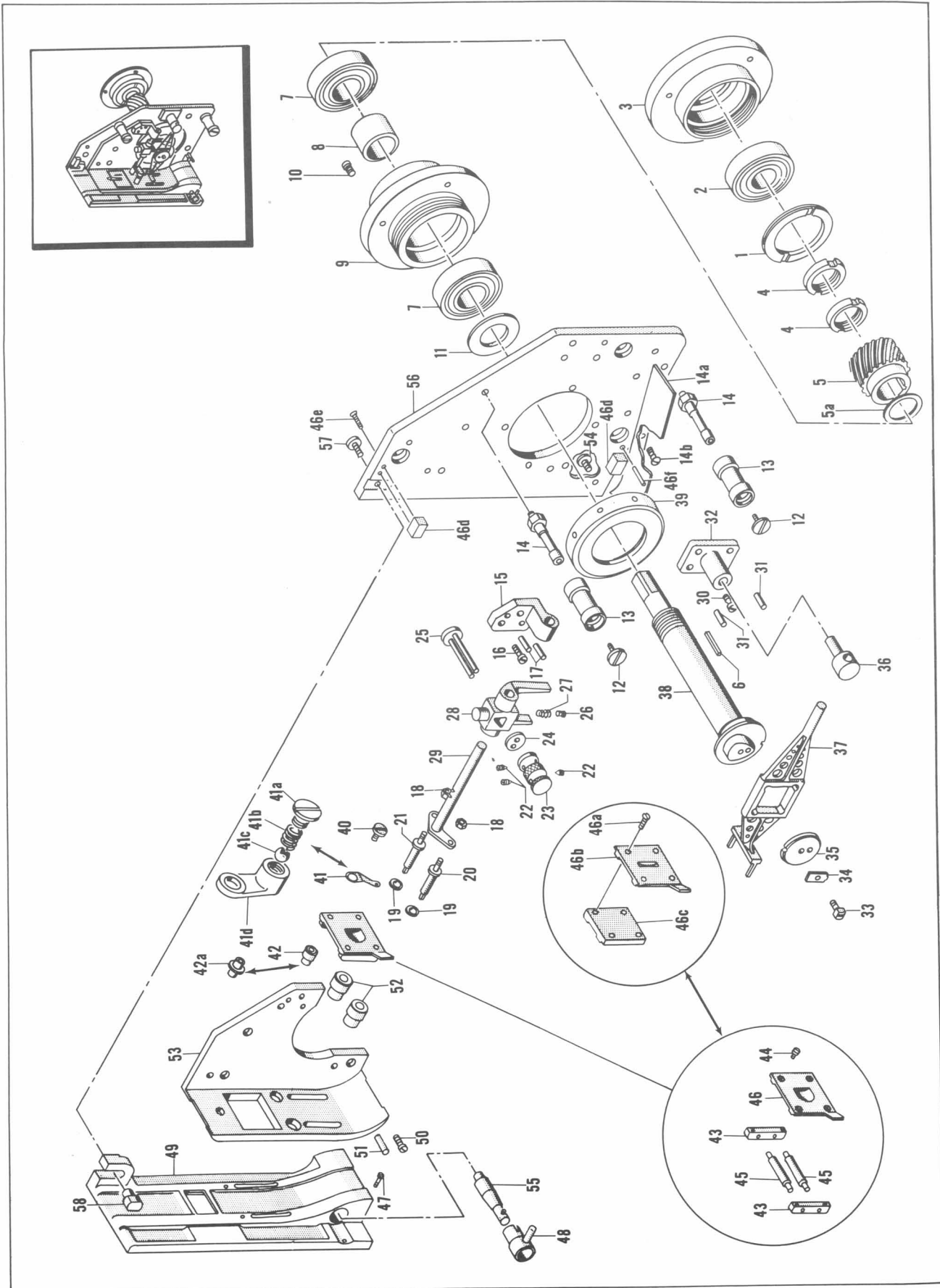


Figure 13. High Speed Movement Assembly



Figure and Index Number	PART NUMBER	DESCRIPTION	Units	Usable on Code
			per Assembly	
		1 2 3 4 5 6 7		
13	1A56	MOVEMENT ASSY, 16mm.....	1	
1	1A29	. NUT, Bearing outboard.....	1	
2	37	. BEARING, Ball (SKF).....	1	
3	1A28	. HOUSING, Bearing outboard.....	1	
4	1A27	. NUT, Gear.....	2	
5	1A26	. GEAR, Movement.....	1	
5a	1A63	. SPACER, 230° movement gear.....	1	
6	COMM	. KEY, Square steel 1/16 x 3/8 in. lg.....	2	
7	38K	. BEARING, Ball plain radial (FAF).....	2	
8	1A25	. SPACER, Bearing.....	1	
9	1A24	. HOUSING, Bearing..... (ATTACHING PARTS)	1	
10	STD4-5	. SCREW, Fil h corrosion res steel 4-40 x 5/32 in. lg..... -----*	4	
11	1A41	. WASHER, Thrust.....	1	
12	15	. SCREW, Roller idler.....	3	
13	1A5	. ROLLER, Idler.....	3	
14	1A6	. SHAFT, Roller idler.....	3	
14a	1A84	. GREASE PAN, 16mm movement (camera serial No. 470 and... subsequent) (ATTACHING PARTS)	1	
14b	COMM	. SCREW, Rd hd CRES 2-56 x 1/8 in. lg (camera serial No. 470... and subsequent) -----*	2	
15	1A4	. BEARING, Shaft register..... (ATTACHING PARTS)	1	
16	S70	. SCREW, Register shaft bearing.....	2	
17	SDP2-7	. PIN, Dowel steel 3/32 x 7/32 in. lg..... -----*	2	
18	S43	. PIN, Pin register.....	2	
19	S44	. OILER, Felt.....	2	
20	1A15	. PIN, Register .0720 LH.....	1	
21	1A16	. PIN, Register .0620 RH.....	1	
	1A54	. FOLLOWER ASSY, Pin register.....	1	
22	1A36	. SCREW, Set register knob.....	3	
23	1A37	. KNOB, Throwout register arm.....	1	
24	1A35	. WASHER, Throwout register arm.....	1	
25	1A47	. DISC AND PIN ASSY, Register arm.....	1	
26	1A31	. PLUNGER, Cam race register.....	1	
27	1A34	. SPRING, Cam race register.....	1	
28	1A18	. FORK, Register.....	1	
29	1A17	. ARM, Pin register.....	1	
	1A53	. CLAW ASSY, Pull down..... (ATTACHING PARTS)	1	
30	1A48	. SCREW, Post lever sleeve.....	2	
31	COMM	. PIN, Dowel steel 3/32 x 7/32 in. lg..... -----*	2	
32	1A20	. POST, Sleeve lever.....	1	
33	1A40	. SCREW, Lock washer.....	1	
34	1A39	. WASHER, Lock.....	1	
35	1A62	. WASHER, Cam.....	1	
36	1A21	. SLEEVE, Lever.....	1	
37	1A60	. LEVER, Pull down.....	1	
38	1A61	. SHAFT, Cam.....	1	
39	1A23	. NUT, Inboard bearing.....	1	
40	30	. SCREW, Spring pressure plate.....	1	
41	1A10	. SPRING, Plate pressure (used on camera serial No. 1..... through 556)	1	
	1A75	. LATCH UNIT, 16mm movement pressure plate (used on..... camera serial No. 557 and subsequent)	1	
41a	1A74	. RETAINING SCREW, Pressure plate latch unit.....	1	
41b	BNC642	. SPRING, Plunger.....	1	
41c	COMM	. BALL, CRES 5/32 in. dia.....	1	
41d	1A73	. ARM, Pressure plate latch unit.....	1	
42	1A9	. POST, Spring pressure plate (used with 1A10).....	1	
42a	1A76	. STUD, Latch arm (used with 1A75).....	1	
	1A46	. PLATE ASSY, Pressure (used on camera serial No. 1... through 583)	1	
43	1A12	. RAIL, Pressure plate..... (ATTACHING PARTS)	2	
44	STD1-3	. SCREW, Fil h corrosion res steel 1-72 x 3/32 in. lg..... -----*	4	

Section II  
Group Assembly Parts List

Figure and Index Number	PART NUMBER	DESCRIPTION							Units per Assembly	Usable on Code
		1	2	3	4	5	6	7		
13 (Cont)										
45	1A13	.	.	ROLLER, Pressure plate	.	.	.	.	2	
46	1A11	.	.	PLATE, Pressure	.	.	.	.	1	
	1A101	.	.	PLATE ASSY, Pressure (used on cameras serial No. 584 and subsequent)	.	.	.	.	1	
46a	COMM	.	.	SCREW, Flat head corrosion resistant steel 1-72 x 1/8 in. lg	.	.	.	.	4	
46b	1A11	.	.	PLATE, Pressure	.	.	.	.	1	
46c	1A102	.	.	PLATE, Solid pressure	.	.	.	.	1	
46d	1A103	.	.	BLOCK, Film stabilizer (used on cameras serial No. 584 and on)	.	.	.	.	2	
				(ATTACHING PARTS)						
46e	41	.	.	SCREW, Fil h corrosion res steel	.	.	.	.	4	
				*-----*						
46f		.	.	PIN, Steel dowel 3/32 x 7/16 in. lg (used on cameras serial No. 584 and on)	.	.	.	.	1	
47	STD1-6	.	.	SCREW, Fil h corrosion res steel 1-72 x 3/16 in. lg	.	.	.	.	1	
	1A55	.	.	PLATE ASSY, Aperture	.	.	.	.	1	
48	1A42	.	.	LOCK, Plate aperture	.	.	.	.	1	
49	1A1	.	.	PLATE, Aperture	.	.	.	.	1	
	1A51	.	.	PLATE ASSY, Register	.	.	.	.	1	
				(ATTACHING PARTS)						
50	STD4-7	.	.	SCREW, Fil h corrosion res steel 4-40 x 7/32 in. lg	.	.	.	.	3	
51	COMM	.	.	PIN, Dowel steel 1/8 x 1/4 in. lg	.	.	.	.	2	
				*-----*						
52	1A14	.	.	BEARING, Register pin	.	.	.	.	2	
53	1A3	.	.	PLATE, Register	.	.	.	.	1	
	1A52	.	.	PLATE ASSY. Base	.	.	.	.	1	
54	7	.	.	SCREW, Lock aperture plate	.	.	.	.	1	
55	1A22	.	.	POST, Lock aperture plate	.	.	.	.	1	
56	1A2	.	.	PLATE, Base	.	.	.	.	1	
57	30	.	.	SCREW, Holding stud aperture plate	.	.	.	.	1	
58	1A8	.	.	STUD, Holding aperture plate	.	.	.	.	1	
				Part numbers in parens "( )" for 175° shutter only; all other parts are used on both 175° and 235° assemblies						

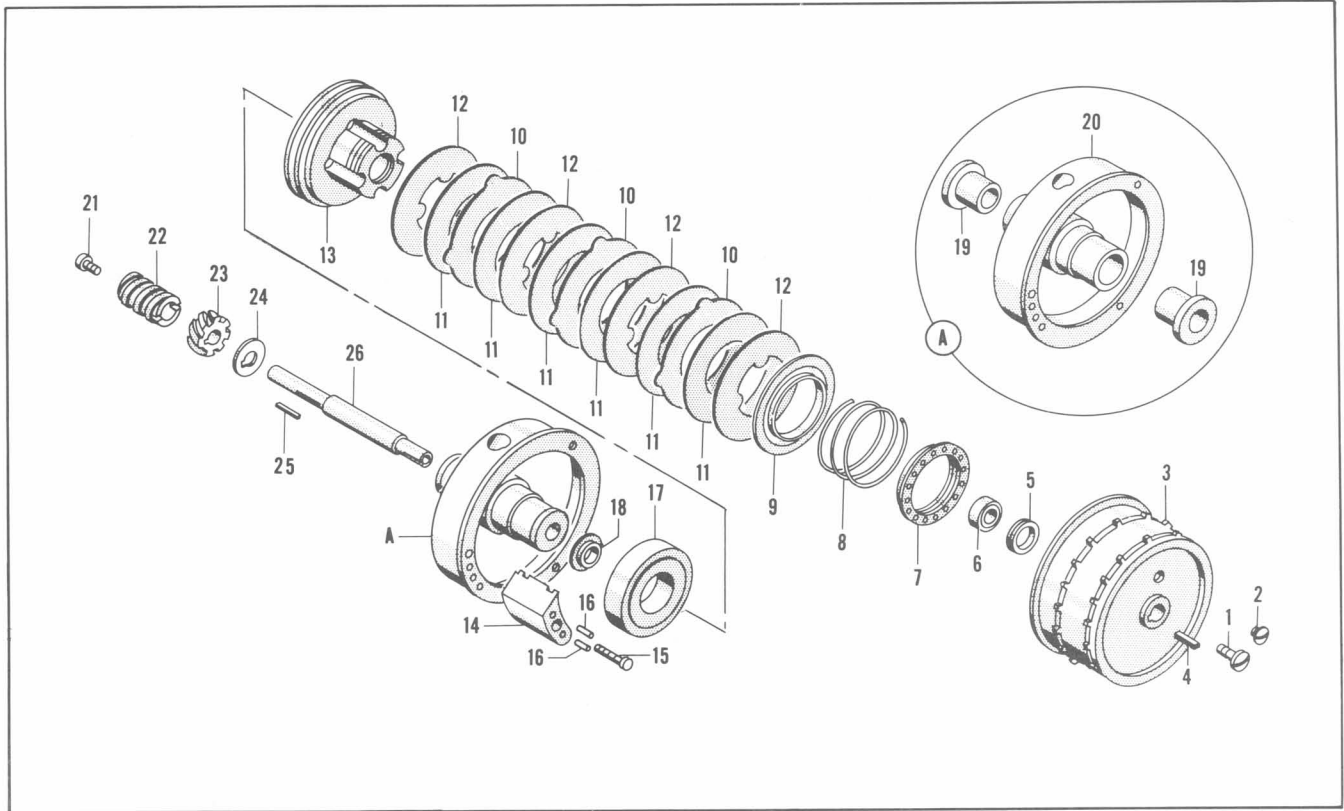


Figure 14. Sprocket Shaft Assembly

Figure and Index Number	PART NUMBER	DESCRIPTION	Units per Assembly							Usable on Code	
			1	2	3	4	5	6	7		
14	1C	SHAFT ASSY, Sprocket . . . . .								1	
1	15	. SCREW, Shaft sprocket . . . . .								1	
2	1C9	. SCREW, Plug . . . . .								1	
3	1C13	. SPROCKET, Film . . . . .								1	
4	COMM	. KEY, Square steel 1/16 x 7/32 in. lg . . . . .								1	
5	1C10	. NUT, Bearing . . . . .								1	
6	4666R	. BEARING, Unshielded (NH) . . . . .								1	
7	1C11	. NUT, Take-up clutch . . . . .								1	
8	1C7	. SPRING, Clutch . . . . .								1	
9	1C14	. WASHER, Take-up clutch . . . . .								1	
10	1C6	. PLATE, Clutch large . . . . .								3	
11	1C15	. WASHER, Clutch . . . . .								6	
12	1C16	. PLATE, Clutch small . . . . .								4	
13	1C5	. PULLEY, Drive magazine . . . . .								1	
14	1C12	. STRIPPED, Feed . . . . .								1	
		(ATTACHING PARTS)									
15	STD3-24	. SCREW, Fil h corrosion res steel 3-48 x 3/4 in. lg . . . . .								1	
16	SDP2-8	. PIN, Dowel steel 3/32 x 1/4 in. lg . . . . .								2	
		-----*									
17	S5	. BEARING, Ball (FAF) . . . . .								1	
18	1C8	. WASHER, Thrust . . . . .								1	
	1C19	. PULLEY ASSY, Sprocket . . . . .								1	
19	1C3	. BEARING, Oilless rear . . . . .								2	
20	1C4	. HOUSING, Pulley . . . . .								1	
21	15	. SCREW, Shaft sprocket . . . . .								1	
22	1C18	. GEAR, Drive counter . . . . .								1	
23	1C1	. GEAR, Driven sprocket (serial numbers 1 thru 358) . . . . .								1	
	1C1A	. GEAR, Driven sprocket (serial numbers 359 and on) . . . . .								1	
24	1C2	. WASHER, Thrust gear . . . . .								1	
25	COMM	. KEY, Square steel 1/18 x 3/32 in. lg . . . . .								1	
26	1C17	. SHAFT, Sprocket . . . . .								1	

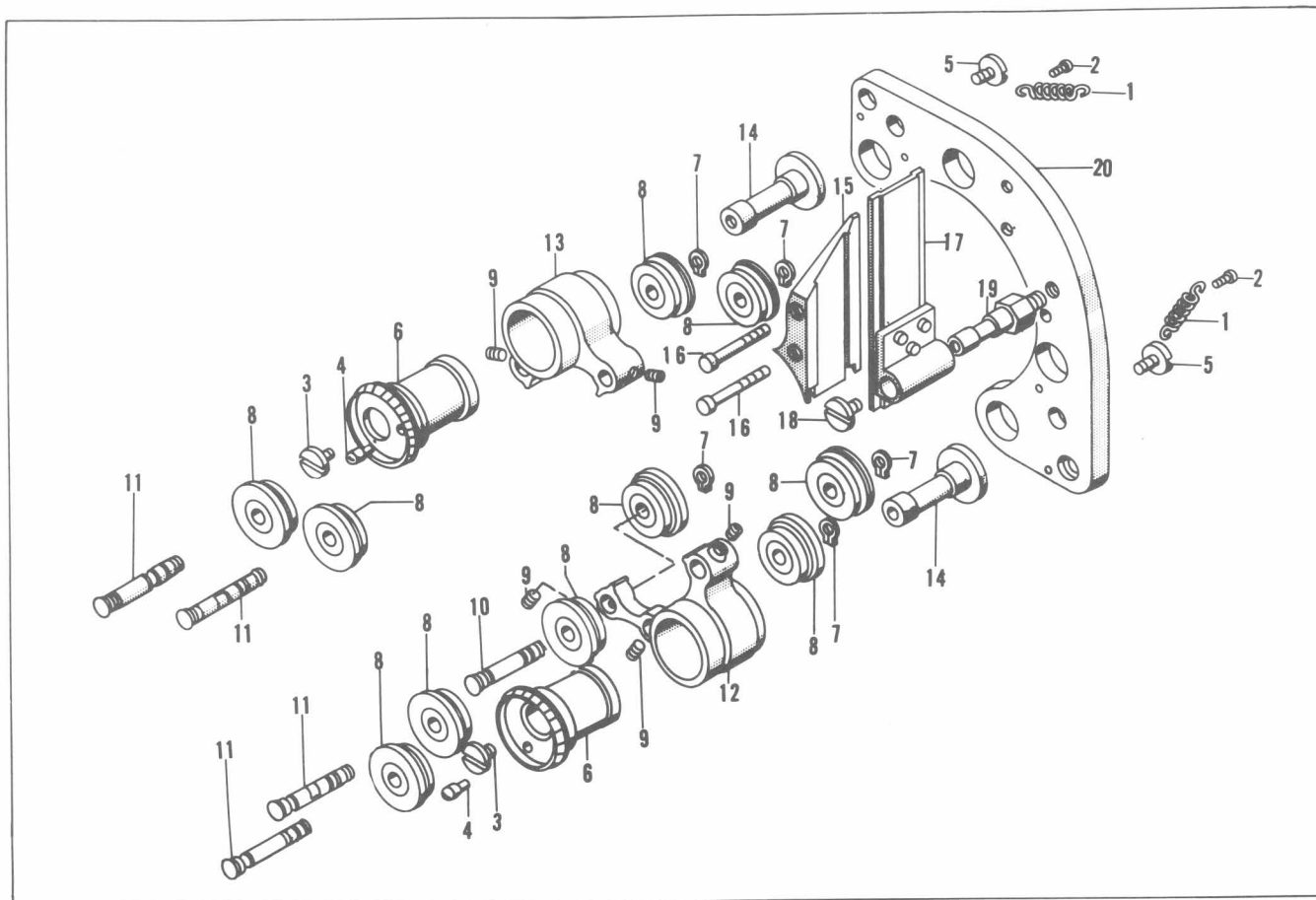


Figure 15. Sprocket Film Guide Assembly

Figure and Index Number	PART NUMBER	DESCRIPTION	Units per Assembly							Usable on Code	
			1	2	3	4	5	6	7		
15	1-E	GUIDE ASSY, Sprocket film								1	
	AF14-23	· SPRING, Film guide sprocket								2	
	2	COMM	· SCREW, Set socket hd corrosion res steel 2-56 x 3/16 in. lg							2	
	3	15	· SCREW, Pin eccentric							2	
	4	1E15	· PIN, Lock eccentric							2	
	5	15	· SCREW, Eccentric							2	
	6	1E3	· ECCENTRIC, Film guide sprocket							2	
	7	5100-12	· RING, Lock (WKI)							5	
	8	1E9	· ROLLER, Film guide							10	
	9	COMM	· SCREW, Set hex socket headless corrosion res steel 4-40 x 1/8 in. lg							5	
	10	1E14	· PIN, Roller short							1	
	11	1E8	· PIN, Roller							4	
	12	1E13	· BRACKET, Roller lower							1	
	13	1E2	· BRACKET, Roller upper							1	
	14	1E1	· PIN, Eccentric							2	
	15	1E4	· STRIPPER, Film guide							1	
	16	COMM	· SCREW, Fil h corrosion res steel 3-48 x 3/4 in. lg							2	
	17	1E5	· APRON ASSY, Trip							1	
	18	15	· SCREW, Apron							1	
	19	1E7	· STUD, Apron trip							1	
20	1E6	· BASE, Film guide sprocket							1		

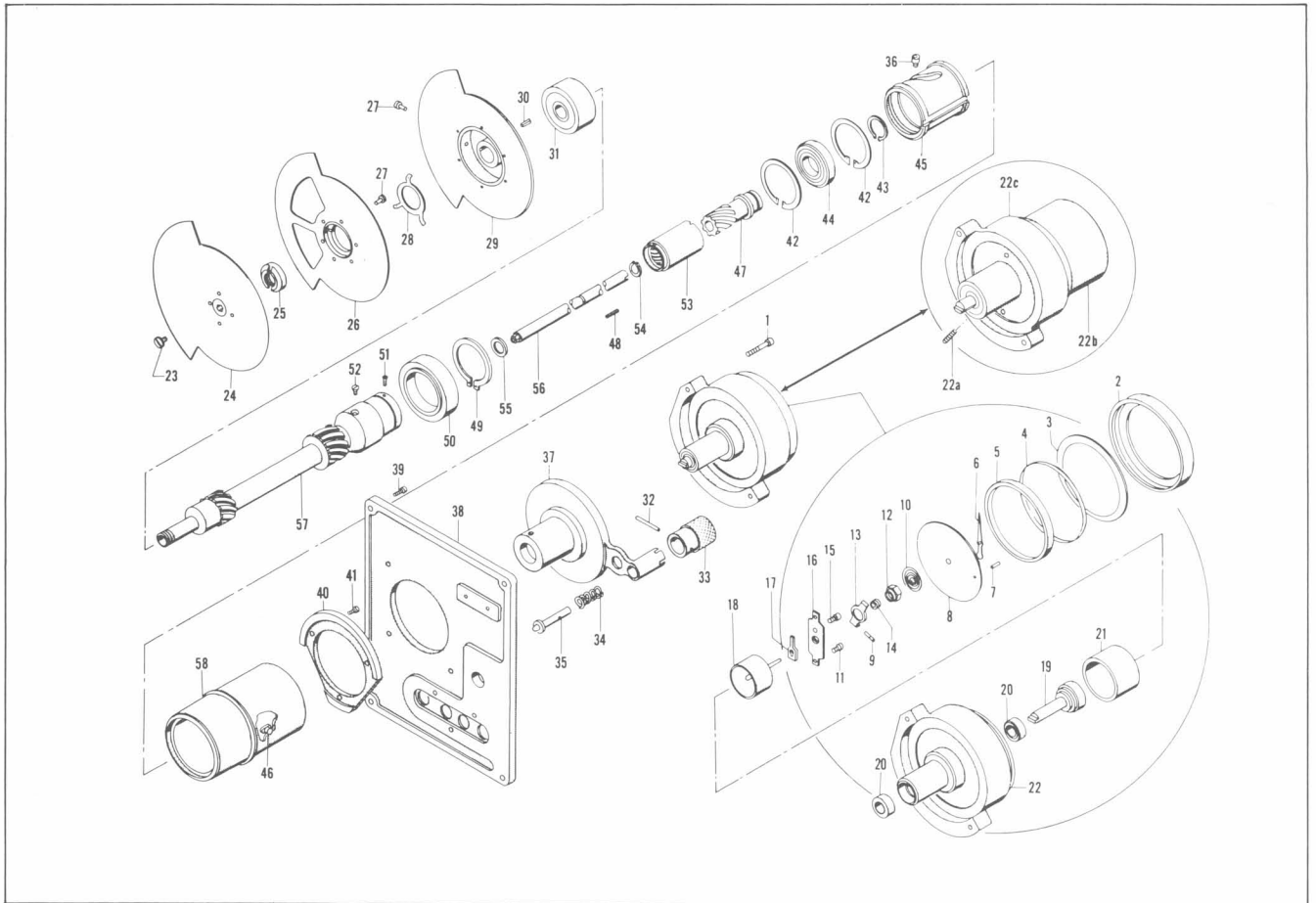


Figure 16. Camera Dissolve and Shutter Assembly

Figure and Index Number	PART NUMBER	DESCRIPTION	Units per Assembly							Usable on Code		
			1	2	3	4	5	6	7			
16	1K79 1K14	DISSOLVE AND SHUTTER ASSY, Camera . . . . . TACHOMETER ASSY, Dissolve (used on cameras serial No. 1 through 654) (ATTACHING PARTS)								1 1		
1	COMM	SCREW, Fil h corrosion res steel 4-40 x 1/2 in. lg . . . . .									3	
2	NC193	CAP, Tachometer . . . . .									1	
3	NC195	WASHER, Cork . . . . .									1	
4	1K57	GLASS, Dial . . . . .									1	
5	1K56	SPACER, Dial . . . . .									1	
6	1K58	HAND, Tachometer . . . . .									1	
7	1WA33	PIN, Dowel . . . . .									1	
8	1K55	DIAL, Tachometer . . . . .									1	
9	1K51	PIN, Adjusting lever hair spring . . . . .									1	
10	1K50 1K43	HAIRSPRING ASSY, Tachometer . . . . . BRIDGE ASSY, Tachometer . . . . .									1 1	
11	COMM	SCREW, Fil h corrosion res steel 0-80 x 1/8 in. lg . . . . .									2	
12	1K46	NUT, Lock bearing stone upper . . . . .									1	
13	1K44	LEVER, Adjusting hair spring . . . . .									1	
14	1K47	BEARING, Shaft upper . . . . .									1	
15	105	SCREW, Stop needle . . . . .									1	
16	1K45	BRIDGE, Tachometer . . . . .									1	
17	1K59	STOP, Needle . . . . .									1	
18	1K27	SHAFT ASSY, Tachometer . . . . .									1	
19	1K24	MAGNET, SHAFT AND JEWEL ASSY, Tachometer . . . . .									1	
20	77R3	BEARING, Ball double shield (ND) . . . . .									2	

Section II  
Group Assembly Parts List

Figure and Index Number	PART NUMBER	DESCRIPTION							Units per Assembly	Usable on Code	
		1	2	3	4	5	6	7			
16 (Cont)											
21	1K26	.	.	.	.	.	.	.	.	1	
22	1K25	.	.	.	.	.	.	.	.	1	
22a	COMM	.	.	.	.	.	.	.	.	1	
22b	M0240	.	.	.	.	.	.	.	.	1	
22c	1K25A	.	.	.	.	.	.	.	.	1	
	1K81	.	.	.	.	.	.	.	.	1	
23	13	.	.	.	.	.	.	.	.	1	
24	1K76	.	.	.	.	.	.	.	.	1	
25	1K4	.	.	.	.	.	.	.	.	1	
26	1K77	.	.	.	.	.	.	.	.	1	
27	1K71	.	.	.	.	.	.	.	.	2	
28	1K62	.	.	.	.	.	.	.	.	1	
29	1K78	.	.	.	.	.	.	.	.	1	
30	COMM	.	.	.	.	.	.	.	.	1	
31	7099	.	.	.	.	.	.	.	.	1	
32	COMM	.	.	.	.	.	.	.	.	1	
33	1K12	.	.	.	.	.	.	.	.	1	
34	NC51	.	.	.	.	.	.	.	.	1	
35	1K13	.	.	.	.	.	.	.	.	1	
36	1K17	.	.	.	.	.	.	.	.	1	
37	1K11	.	.	.	.	.	.	.	.	1	
37	1K11A	.	.	.	.	.	.	.	.	1	
38	1K80	.	.	.	.	.	.	.	.	1	
39	COMM	.	.	.	.	.	.	.	.	4	
40	1K7	.	.	.	.	.	.	.	.	1	
41	COMM	.	.	.	.	.	.	.	.	3	
42	5000-87	.	.	.	.	.	.	.	.	2	
43	5100-37	.	.	.	.	.	.	.	.	1	
44	S3R	.	.	.	.	.	.	.	.	1	
		.	.	.	.	.	.	.	.		
45	1K16	.	.	.	.	.	.	.	.	1	
46	1K6	.	.	.	.	.	.	.	.	1	
47	1K63	.	.	.	.	.	.	.	.	1	
48	COMM	.	.	.	.	.	.	.	.	1	
49	5100-87	.	.	.	.	.	.	.	.	1	
50	B540FS113	.	.	.	.	.	.	.	.	1	
51	STD13-6	.	.	.	.	.	.	.	.	1	
52	COMM	.	.	.	.	.	.	.	.	1	
53	1K64	.	.	.	.	.	.	.	.	1	
54	5100-19	.	.	.	.	.	.	.	.	1	
55	1K19	.	.	.	.	.	.	.	.	1	
56	1K8	.	.	.	.	.	.	.	.	1	
57	1K22	.	.	.	.	.	.	.	.	1	
57	1K22A	.	.	.	.	.	.	.	.	1	
58	1K10	.	.	.	.	.	.	.	.	1	

Figure and Index Number	PART NUMBER	DESCRIPTION							Units per Assembly	Usable on Code	
		1	2	3	4	5	6	7			
17											
	*1P29	.	.	.	.	.	.	.	.	NP	
	1P21	.	.	.	.	.	.	.	.	1	
1	STD25-8	.	.	.	.	.	.	.	.	2	
		.	.	.	.	.	.	.	.		
2	*89	.	.	.	.	.	.	.	.	NP	
3	*1P18	.	.	.	.	.	.	.	.	NP	
4	*COMM	.	.	.	.	.	.	.	.	NP	
5	*1P19	.	.	.	.	.	.	.	.	NP	
6	*500301	.	.	.	.	.	.	.	.	NP	
7	*4260A	.	.	.	.	.	.	.	.	NP	
8	*501631	.	.	.	.	.	.	.	.	NP	
9	*VRC3	.	.	.	.	.	.	.	.	NP	

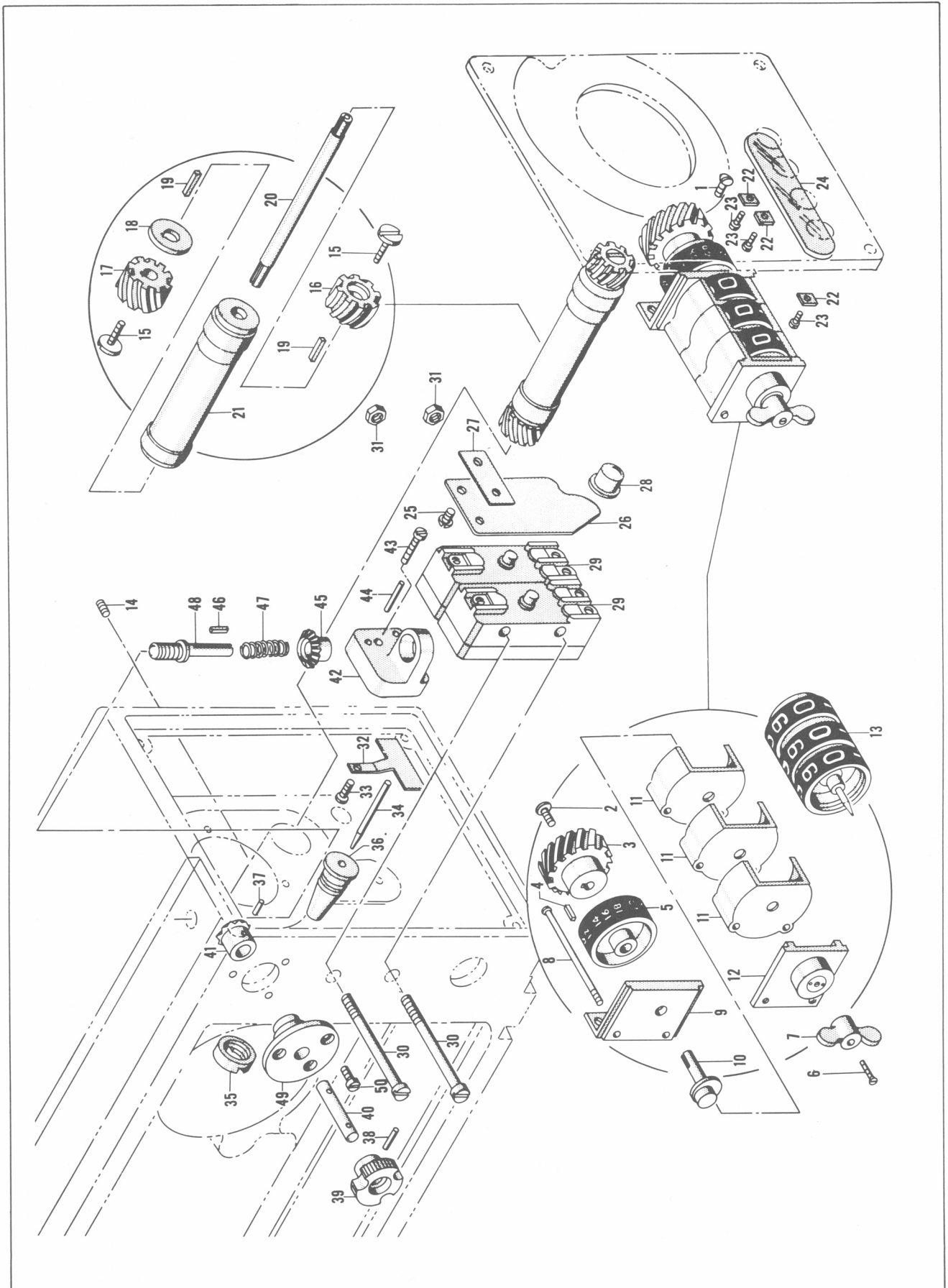


Figure 17. Frame Counter, Motor Shut-off Trip and Magazine Latch Installations

Section II  
Group Assembly Parts List

Figure and Index Number	PART NUMBER	DESCRIPTION							Units per Assembly	Usable on Code
		1	2	3	4	5	6	7		
17(Cont)										
10	*VRC4									NP
11	*VRC2									NP
12	*VRC1									NP
13	*No Number									NP
14	COMM									1
	1P26									1
15	15									2
16	1P1									1
17	1P5									1
18	1P4									1
19	COMM									2
20	1P3									1
21	1P2									1
22	AC3-29									3
23	105									3
24	AC3-30									1
	*1P27									NP
25	STD25-5									2
26	1P16									1
27	1P12									1
28	1P17									1
29	ELS-23									2
30	COMM									2
31	COMM									2
32	1P15									1
33	STD22-4									1
34	1P6									1
35	AC12-7									1
36	1P7									1
	*1P28									NP
	1P13									1
37	COMM									1
38	SDP1-12									1
39	1P22									1
40	1P23									1
41	1P20									1
42	1P8									1
43	STD5-14									2
44	SDP1-16									2
45	1P9									1
46	COMM									1
47	1P11									1
48	1P10									1
49	1P14									1
50	STD4-8									3

\* Not procurable as a separate item



Figure and Index Number	PART NUMBER	DESCRIPTION	Units per Assembly	Usable on Code		
					1	2
18	1H	TUBE ASSY, Focusing (Model 1-H) . . . . .	1			
1	1H31	. SCREW, Guide . . . . .	1			
2	1H25	. EYEPIECE, Bellows . . . . .	1			
3	1H22	. NUT, Lens eyepiece. . . . .	1			
4	1H41	. SPRING, Retaining lens . . . . .	1			
5	1H42	. RING, Retaining lens . . . . .	1			
6	1H1	. LENS, Eyepiece . . . . .	2			
7	1H43	. SEPARATOR, Eyepiece . . . . .	1			
8	1H24	. SHELL, Lens eyepiece. . . . .	1			
9	6	. SCREW, Lock lens. . . . .	1			
10	1H32	. LOCK, Eyepiece . . . . .	1			
11	STD2-4	(ATTACHING PARTS) . SCREW, Fil h corrosion res steel 2-56 x 1/8 in. lg. . . . .	2			
12	NC479	. PLUG, Lock lens. . . . .	1			
13	STD2-14	. SCREW, Fil h corrosion res steel 2-56 x 7/16 in. lg. . . . .	4			
14	1H19	. NUT, Lens . . . . .	1			
15	1H40	. DIAPHRAGM, Tube focusing . . . . .	1			
16	1H23	. HOLDER, Eyepiece . . . . .	1			
17	STD22-9	. SCREW, Rd hd corrosion res steel 2-56 x 9/32 in. lg . . . . .	2			
	1H21	. PIVOT ASSY, Filter. . . . .	2			
18	COMM	. PIN, Dowel steel 1/16 x 9/32 in. lg . . . . .	1			
19	1H39	. KNOB, Pivot filter . . . . .	1			
20	1H38	. PIN, Pivot filter . . . . .	1			
21	COMM	. BALL, Detent 3/32 in. dia . . . . .	2			
22	1H27	. SPRING, Detent filter knob . . . . .	2			
23	1H4	. RING, Spring filter . . . . .	2			
24	1H5	. FILTER, Green. . . . .	1			
25	1H6	. FILTER, Pan . . . . .	1			
26	1H3	. HOLDER, Filter . . . . .	2			
27	AA25-7A	. KNOB, Holder objective lens. . . . .	1			
28	1H28	. SLIDE, Objective lens . . . . .	1			
29	1H36	. BEARING, Latch door . . . . .	1			
30	STD5-12	(ATTACHING PARTS) . SCREW, Fil h corrosion res steel 6-32 x 3/8 in. lg. . . . .	2			
31	1H35	. BOLT, Latch door . . . . .	1			
32	1H37	. SPRING, Latch door. . . . .	1			
33	16	. SCREW, Latch door. . . . .	1			
34	1H34	. LATCH, Door . . . . .	1			
35	COMM	. KEY, Square steel 1/16 x 3/16 in. lg . . . . .	1			
36	1H33	. CAM, Latch . . . . .	1			
37	STD3-5	. SCREW, Fil h corrosion res steel 3-48 x 5/32 in. lg. . . . .	7			
38	COMM	. SCREW, Fil h corrosion res steel 2-56 x 5/16 in. lg. . . . .	1			
39	1H30	. ROD, Slide objective lens . . . . .	1			
40	1H7	. GIB, Objective lens . . . . .	1			
41	STD5-12	(ATTACHING PARTS) . SCREW, Fil h corrosion res steel 6-32 x 3/8 in. lg. . . . .	3			
42	COMM	. PIN, Dowel steel 3/32 x 1/2 in. lg . . . . .	2			
43	AA25-64	. SPRING, Lock objective lens . . . . .	1			
44	AA25-16	. SPRING, Mount objective lens . . . . .	1			
45	STD2-4	(ATTACHING PARTS) . SCREW, Fil h corrosion res steel 2-56 x 1/8 in. lg . . . . .	2			
46	AA25-22	. LENS, Objective . . . . .	1			
47	1H29	. HOLDER, Lens objective . . . . .	1			
48	1H8	. PLATE, Line up objective lens . . . . .	1			
49	STD2-9	. SCREW, Fil h corrosion res steel 2-56 x 9/32 in. lg. . . . .	4			
50	STD2-10	. SCREW, Fil h corrosion res steel 2-56 x 5/16 in. lg. . . . .	4			
51	COMM	. PIN, Dowel steel 1/16 x 3/8 in. lg . . . . .	4			
52	1H13	. COVER, Front . . . . .	1			
53	1H14	. RING, Spring illuminating lens. . . . .	1			
54	1H9	. LENS, Illuminating . . . . .	1			
55	STD2-10	. SCREW, Fil h corrosion res steel 2-56 x 5/16 in. lg. . . . .	2			
56	COMM	. PIN, Dowel steel 1/16 x 5/16 in. lg . . . . .	2			
57	1H12	. APERTURE, Ground glass . . . . .	1			
58	1H11	. GLASS, Ground (used on cameras serial No. 1 through 654)	1			
58	1H45	. GLASS, Ground projection (used on cameras serial No. 655 and on)	1			
59	1H44	. SPRING, Retaining ground glass . . . . .	2			
60	1H10	. HOLDER, Lens illuminating . . . . .	1			
61	1H17	. COVER, Side . . . . .	1			

Section II  
Group Assembly Parts List

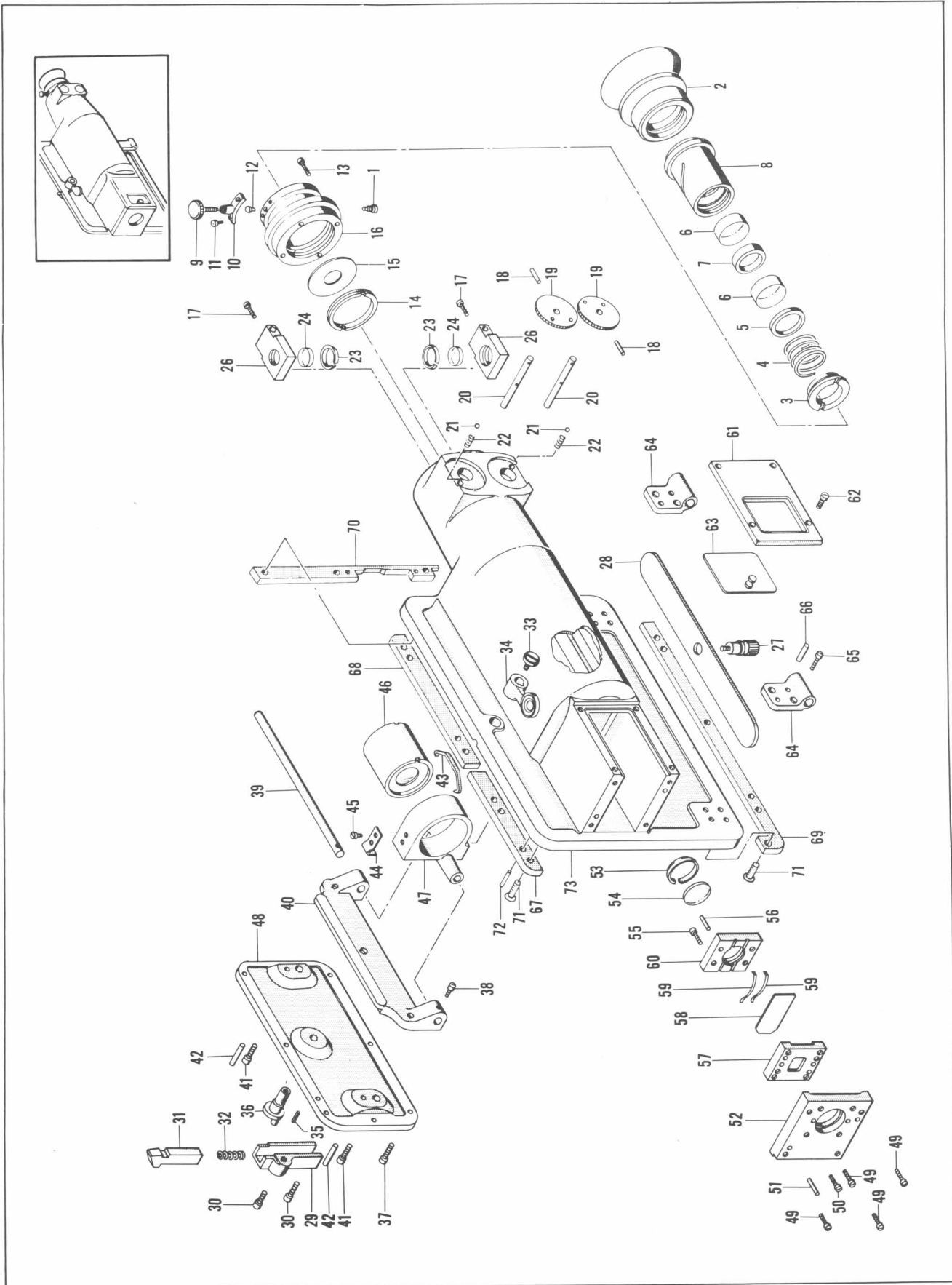
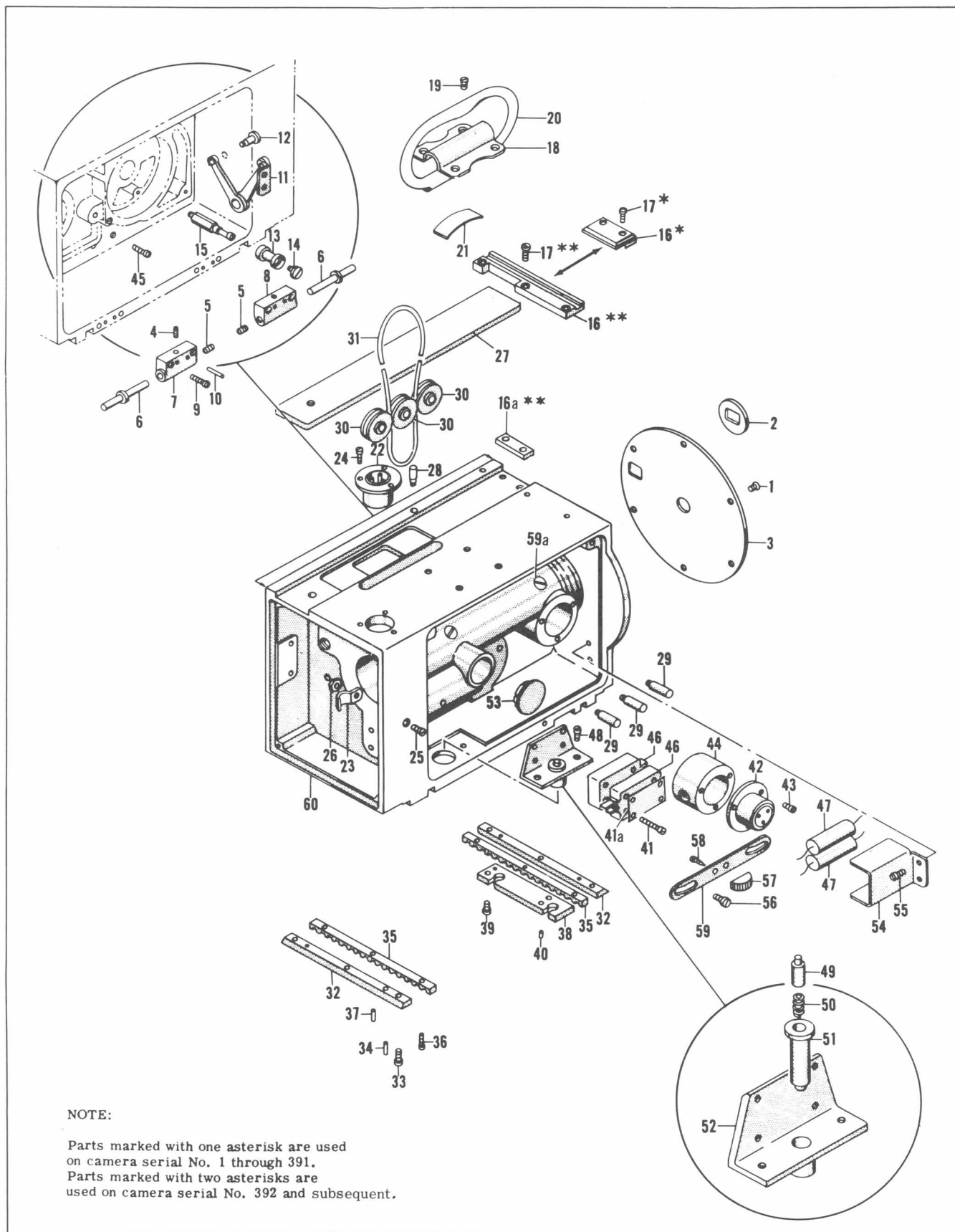


Figure 18. Focusing Tube Assembly

Figure and Index Number	PART NUMBER	DESCRIPTION	Units per Assembly	Usable on Code		
					1	2
18 (Cont)		(ATTACHING PARTS)				
62	STD2-8	. SCREW, Fil h corrosion res steel 2-56 x 1/4 in. lg . . . . .	4			
		-----*				
63	1H48	. DOOR AND KNOB ASSY, Slide . . . . .	1			
64	1H26	. HINGE, Door . . . . .	2			
		(ATTACHING PARTS)				
65	STD4-10	. SCREW, Fil h corrosion res steel 4-40 x 5/16 in. lg . . . . .	4			
66	COMM	. PIN, Dowel steel 3/32 x 3/8 in. lg . . . . .	4			
		-----*				
67	1H52	. SEAL, Door light (used on cameras serial No. 1 through 662) .	1			
68	1H53	. SEAL, Door light (used on cameras serial No. 1 through 662) .	1			
69	1H54	. SEAL, Door light (used on cameras serial No. 1 through 662) .	1			
70	1H55	. SEAL, Door light (used on cameras serial No. 1 through 662) .	1			
		(ATTACHING PARTS)				
71	COMM	. SCREW, Fil h corrosion resistant steel 2-56 x 3/4 in. lg (used on cameras serial No. 1 through 662)	11			
		-----*				
72	COMM	. PIN, Dowel 1/16 x 1/4 in. lg . . . . .	8			
73	1H18	. HOUSING, Tube focus (used on cameras serial No. 1 through 662)	1			
73	1H18A	. HOUSING, Tube focus (used on cameras serial No. 663 and on)	1			

Figure and Index Number	PART NUMBER	DESCRIPTION	Units per Assembly	Usable on Code		
					1	2
19	1D36	BOX ASSY, Camera . . . . .	1			
	1D37	. COVER ASSY, Shutter . . . . .	1			
		(ATTACHING PARTS)				
1	27	. SCREW, Cover shutter . . . . .	6			
		-----*				
2	1D32	. . WASHER, Cover shutter (cut after mounting) . . . . .	1			
3	1D6	. . COVER, Shutter . . . . .	1			
4	COMM	. SCREW, Set headless corrosion res steel 4-40 x 1/4 in. lg. . . . .	2			
5	COMM	. SCREW, Set headless corrosion res steel 6-32 x 1/4 in. lg. . . . .	2			
6	1D5	. PIN, Hinge door . . . . .	2			
7	1D4	. HINGE, Door front . . . . .	1			
8	1D2	. HINGE, Door rear . . . . .	1			
		(ATTACHING PARTS)				
9	STD4-14	. SCREW, Fil h corrosion res steel 4-40 x 7/16 in. lg. . . . .	4			
10	COMM	. PIN, Dowel steel 3/32 x 1/2 in. lg . . . . .	4			
		-----*				
11	1D18	. DROP ASSY, Door . . . . .	1			
		(ATTACHING PARTS)				
12	93	. SCREW, Drop door . . . . .	1			
		-----*				
13	1A5	. ROLLER, Idler . . . . .	1			
		(ATTACHING PARTS)				
14	15	. SCREW, Idler roller . . . . .	1			
		-----*				
15	1D33A	. SHAFT, Roller idler . . . . .	1			
16	1D7	. STOP, Magazine (used on cameras serial No. 1 through 391) . .	1			
16	1D71	. SLIDE, Base and box (used on cameras serial No. 392 and . . . . . subsequent)	1			
16a	1D73	. STOP, 16mm camera magazine (used with 1D71) . . . . .	1			
		(ATTACHING PARTS)				
17	STD5-11	. SCREW, Fil h corrosion res steel 6-32 x 11/32 in. lg (used . . . . . on cameras serial No. 1 through 391)	2			
17	COMM	. SCREW, Fil h 6-32 x 1/4 in. lg (used on cameras serial No. 392 and subsequent)	3			
		-----*				
18	1D9	. BRACKET, Handle. . . . .	1			
		(ATTACHING PARTS)				
19	STD28-8	. SCREW, Rd hd corrosion res steel 10-24 x 1/4 in. lg . . . . .	4			
		-----*				
20	1D8	. HANDLE, Box. . . . .	1			
21	1D29	. SPRING, Handle . . . . .	1			
	1D35	. CONNECTOR ASSY, Electrical (No. 1 to 226) . . . . .	1			
	1D47	. CONNECTOR ASSY, Electrical (4 prong) (No. 227 and . . . . . subsequent)	1			
22	1D17	. . CONNECTOR, Panel . . . . .	1			
	1D44	. . CONNECTOR, Panel (No. 227 and subsequent) . . . . .	1			
23	NC710	. . CLAMP, Cable . . . . .	1			
		(ATTACHING PARTS)				

Section II  
Group Assembly Parts List



NOTE:

Parts marked with one asterisk are used on camera serial No. 1 through 391.  
Parts marked with two asterisks are used on camera serial No. 392 and subsequent.

Figure 19. Camera Box Assembly

Figure and Index Number	PART NUMBER	DESCRIPTION	Units	Usable
			per Assembly	on Code
		1 2 3 4 5 6 7		
19 (Cont)		(ATTACHING PARTS)		
24	STD4-10	. . . SCREW, Fil h corrosion res steel 4-40 x 5/16 in. lg . . . . .	3	
25	STD16-10	. . . SCREW, 82° flat hd corrosion res steel 6-32 x 5/16 in. lg . . . . .	1	
26	No Number	. . . NUT, Plain hex steel 6-32 NC2 . . . . .	1	
		*-----*		
27	1D26	. . . COVER, Dust . . . . .	1	
28	1D3	. . . STOP, Latch . . . . .	1	
29	NC113	. . . STUD, Idler roller magazine drive . . . . .	3	
30	NC112A	. . . ROLLER, Idler magazine drive . . . . .	3	
31	1M36	. . . BELT, Drive magazine . . . . .	1	
32	1D10	. . . GIB, Camera . . . . .	2	
		(ATTACHING PARTS)		
33	39	. . . SCREW, Gib . . . . .	6	
34	COMM	. . . PIN, Dowel steel 3/32 x 5/16 in. lg . . . . .	4	
		*-----*		
35	1D11	. . . RACK, Shift . . . . .	2	
		(ATTACHING PARTS)		
36	41	. . . SCREW, Rack shift . . . . .	4	
37	COMM	. . . PIN, Dowel steel 1/16 x 5/16 in. lg . . . . .	2	
		*-----*		
38	1D12	. . . PLATE, Locating . . . . .	1	
		(ATTACHING PARTS)		
39	STD4-9	. . . SCREW, Fil h corrosion res steel 4-40 x 9/32 in. lg . . . . .	4	
40	COMM	. . . PIN, Dowel steel 1/8 x 5/16 in. lg . . . . .	2	
		*-----*		
41	STD2-20	. . . SCREW, Fil h corrosion res steel 2-56 x 5/8 in. lg . . . . .	4	
41a	1D42	. . . PLATE, Switch reinforcing . . . . .	1	
	1D34	. . . PLUG AND SWITCH ASSY, Camera (No. 1 through 226) . . . . .	1	
	1D46	. . . PLUG AND SWITCH ASSY, (4 prong) (No. 227 and subsequent) . . . . .	1	
42	1D16	. . . PLUG, Motor female . . . . .	1	
	1D45	. . . PLUG, Motor female (No. 227 and subsequent) . . . . .	1	
		(ATTACHING PARTS)		
43	3	. . . SCREW, Plug motor . . . . .	3	
		*-----*		
44	1D15	. . . SPACER, Plug motor . . . . .	1	
		(ATTACHING PARTS)		
45	STD5-10	. . . SCREW, Fil h corrosion res steel 6-32 x 5/16 in. lg . . . . .	3	
		*-----*		
46	2M03-1B	. . . SWITCH, Snap (AOE) . . . . .	2	
47	COMM	. . . CONDENSER, Arc suppressor . . . . .	2	
	1D21	. . . TRIP ASSY, Safety shift . . . . .	NP	
		(ATTACHING PARTS)		
48	STD4-8	. . . SCREW, Fil h corrosion res steel 4-40 x 1/4 in. lg . . . . .	2	
		*-----*		
49	1D22	. . . ROD, Plunger . . . . .	1	
50	1D25	. . . SPRING, Plunger . . . . .	1	
51	1D23	. . . PLUNGER, Shaft shift . . . . .	1	
52	1D24	. . . SUPPORT, Plunger . . . . .	1	
53	1D28	. . . CAP, Shaft sprocket . . . . .	1	
54	1D27	. . . COVER, Spark eliminator . . . . .	1	
		(ATTACHING PARTS)		
55	COMM	. . . SCREW, Rd hd corrosion res steel 3-48 x 3/16 in. lg . . . . .	2	
		*-----*		
56	1D14	. . . SCREW, Latch motor . . . . .	2	
57	NC222A	. . . KNOB, Door latch motor . . . . .	1	
		(ATTACHING PARTS)		
58	COMM	. . . SCREW, Drive steel No. 2 x 3/16 in. lg . . . . .	2	
		*-----*		
59	1D13	. . . LATCH, Door motor . . . . .	1	
59a	AEF68	. . . SCREW, Grease retaining . . . . .	2	
60	1D1	. . . BOX, Camera (used on cameras serial No. 1 through 662) . . . . .	1	
60	1D1A	. . . BOX, Camera (used on cameras serial No. 663 and on) . . . . .	1	

Section II  
Group Assembly Parts List

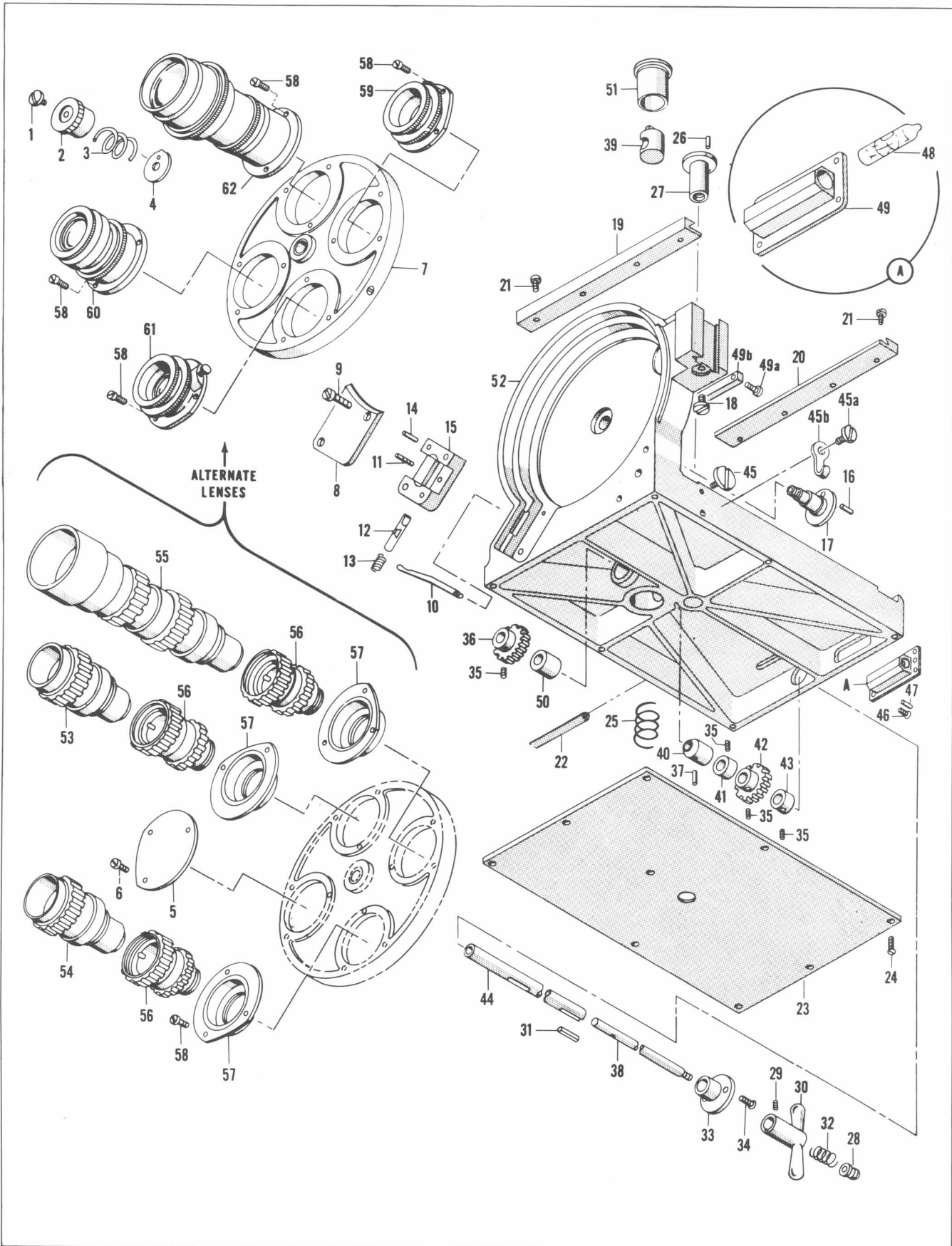


Figure 20. Lenses, Lens Mounts, and Camera Base Assembly

Figure and Index Number	PART NUMBER	DESCRIPTION	Units per Assembly	Usable on Code		
					1	2
20		Code: "A" denotes parts peculiar to Model 16-235 cameras "B" denotes parts peculiar to Model CMY-5 cameras				
		LENSES, MOUNTS, AND CAMERA BASE ASSY.....	1	A		
		LENSES, MOUNTS, AND CAMERA BASE ASSY.....	1	B		
	1B	. . . . . BASE ASSY, Camera.....	1			
1	10	. . . . . SCREW, Pin turret.....	1			
2	1B2	. . . . . KNOB, Lock turret.....	1			
3	1B5	. . . . . SPRING, Tension turret.....	1			
4	1B3	. . . . . WASHER, Turret.....	1			
5	1B19	. . . . . COVER, Lens hole turret..... (ATTACHING PARTS)	1			
6	87	. . . . . SCREW, Cover lens hole turret.....	3			
7	1B21	. . . . . TURRET ASSY, Base.....	1			
8	1B1	. . . . . COVER, Locating turret..... (ATTACHING PARTS)	1			
9	STD4-20	. . . . . SCREW, Fil h corrosion res steel 4-40 x 5/8 in. lg.....	2			
10	1B16	. . . . . LEVER, Lock turret..... (ATTACHING PARTS)	1			
11	1B17	. . . . . SCREW, Lock lever turret.....	1			
12	1B15	. . . . . PIN, Lock turret.....	1			
13	1B22	. . . . . SPRING, Pin turret lock.....	1			
14	COMM	. . . . . PIN, Dowel steel 1/16 x 5/32 in. lg.....	2			
15	1B7	. . . . . BEARING, Pin turret lock.....	1			
16	COMM	. . . . . PIN, Dowel steel 1/16 x 1/4 in. lg.....	1			
17	1B4	. . . . . PIN, Turret.....	1			
18	18	. . . . . SCREW, Stop finder dovetail.....	1			
19	1B8	. . . . . GIB, Front.....	1			
20	1B14	. . . . . GIB, Back..... (ATTACHING PARTS)	1			
21	35	. . . . . SCREW, Gib.....	8			
22	1B20	. . . . . LOCK, Cam shift.....	1			
23	1B12	. . . . . PLATE, Base..... (ATTACHING PARTS)	1			
24	STD14-10	. . . . . SCREW, 82° flat hd corrosion res steel 3-48 x 5/16 in. lg.....	9			
25	AK6-10	. . . . . SPRING, Plunger locating.....	1			
26	COMM	. . . . . PIN, Dowel steel 3/32 x 1/4 in. lg.....	1			
27	1B18	. . . . . BUSHING, Hold down camera.....	1			
28	AK6-4	. . . . . KNOB, Push rod.....	1			
29	COMM	. . . . . SCREW, Set headless 4-40 x 1/8 in. lg.....	1			
30	AK6-1	. . . . . HANDLE, Shift.....	1			
31	COMM	. . . . . KEY, Square steel 1/16 x 5/8 in. lg.....	1			
32	AK6-12	. . . . . SPRING, Push rod.....	1			
33	1B13	. . . . . BUSHING, Shift shaft..... (ATTACHING PARTS)	1			
34	STD32-9	. . . . . SCREW, Oval hd corrosion res steel 2-56 x 9/32 in. lg.....	2			
35	COMM	. . . . . SCREW, Set headless steel 8-32 x 9/64 in. lg.....	4			
36	AK6-11	. . . . . GEAR, Shift.....	1			
37	COMM	. . . . . PIN, Dowel steel 5/32 x 1/2 in. lg.....	1			
38	1B10	. . . . . ROD, Push.....	1			
39	AK6-8	. . . . . PLUNGER, Locating.....	1			
40	AK6-9	. . . . . PLUNGER, Push.....	1			
41	AK6-13	. . . . . COLLAR, Thrust shift shaft.....	1			
42	AK6-11	. . . . . GEAR, Shift.....	1			
43	AK6-13	. . . . . COLLAR, Thrust shift shaft.....	1			
44	1B11	. . . . . SHAFT, Handle shift.....	1			
45	109	. . . . . SCREW, Safety stop shift.....	2			
45a	55	. . . . . SCREW, Tape hook.....	1			
45b	BNC453	. . . . . HOOK, Tape.....	1			
	AM28-9	. . . . . LEVEL ASSY, Camera..... (ATTACHING PARTS)	1			
46	STD32-8	. . . . . SCREW, Oval hd corrosion res steel 2-56 x 1/4 in. lg.....	4			
47	COMM	. . . . . PIN, Dowel steel 1/16 x 1/4 in. lg.....	2			
48	AM28-8	. . . . . VIAL, Level.....	1			
49	AM28-7A	. . . . . CASTING, Level.....	1			

Section II  
Group Assembly Parts List

Figure and Index Number	PART NUMBER	DESCRIPTION	Units per Assembly	Usable on Code		
					1	2
20(Cont)						
49a	39	. . SCREW, Special (used on cameras serial No. 392 and..... subsequent)	2			
49b	1D72	. . LOCK, Base and box slide (used on cameras serial No. 392 ... and subsequent)	1			
	1B23	. . BASE ASSY, Camera .....	1			
50	AK6-6	. . . BUSHING, Shift shaft.....	1			
51	AK6-7A	. . . BUSHING, Plunger .....	1			
52	1B9	. . . BASE, Camera .....	1			
53	No Number	. LENS, Cine Ektar 15mm f/2.5 (EKO) .....	1	A		
54	No Number	. LENS, Cine Ektar 25mm f/1.4 (EKO) .....	1	A		
55	No Number	. LENS, Cine Ektar 63mm f/2.0 (EKO) .....	1	A		
56	No Number	. ADAPTER, Lens type C mount (EKO) .....	3	A		
57	1X41	. MOUNT, Lens type C .....	3	A		
		(ATTACHING PARTS)				
58	87	. SCREW, Mount lens .....	9			
		-----*				
59	No Number	. LENS, Baltar 15mm f/2.3 (BLO) .....	1	B		
60	No Number	. LENS, Baltar 25mm f/2.3 (BLO) .....	1	B		
61	No Number	. LENS, Baltar 50mm f/2.3 (BLO) .....	1	B		
62	No Number	. LENS, Baltar 100mm f/2.3 (BLO) .....	1	B		
		see page 49 for usable on code for this page				

Figure and Index Number	PART NUMBER	DESCRIPTION	Units per Assembly	Usable on Code		
					1	2
21		16MM CAM FOLLOWER SUPPORT BRACKET AND MODEL 16FF FOLLOW FOCUS ASSEMBLIES				
	1Y71	. BRACKET ASSY, 16 mm follow focus cam follower .....	1			
1	No Number	. . PIN, Dowel 3/32 dia x 3/8 in. lg .....	2			
	1F171	. . SCREW ASSY, Clamping .....	2			
2	1F173	. . . KNOB, Clamping screw .....	1			
3	1F172	. . . SHAFT, Clamp roller support screw .....	1			
4	1F170	. . TOP, Cam roller support .....	1			
5	FS11	. . SCREW, Thumb .....	2			
6	NC890	. . FASTENER, Finder return spring .....	1			
7	NC891	. . SPRING, Cam pressure .....	1			
8	1F165	. . STUD, Cam pressure spring finder .....	1			
9	COMM	. . SCREW, Machine fil hd No. 8-32 x 11/16 in. lg .....	2			
10	1F176	. . DOWEL, Cam locating .....	2			
11	1F175	. . PLATE, Cam shift .....	1			
12	No Number	. . PIN, Dowel 1/16 x 1/2 in. lg .....	1			
13	1F169	. . SCREW, Roller slide adjusting .....	1			
14	1F177	. . COLLAR, Adjusting screw .....	1			
15	NC889	. . ARM, Horizontal adjustment .....	1			
16	1F166	. . SUPPORT, Cam roller .....	1			
	1Y45	. FOLLOW FOCUS ASSY, Model 16FF .....	1			
17	LMB41	. . SCREW, Bellows vertical adjustment .....	2			
18	LMB48	. . TUBE, Bracket extension .....	1			
19	LMB133	. . TUBE, Bracket extension .....	1			
20	72	. . SCREW, Machine (Mitchell Standard) .....	3			
21	COMM	. . SCREW, Machine flat hd No. 3-48 x 3/16 in. lg .....	3			
22	1F53	. . PLATE, Dial .....	1			
23	1F178	. . WASHER, Hand knob .....	1			
23a	No Number	. . KEY, Woodruff 1/16 sq x 3/8 in. lg .....	1			



Figure and Index Number	PART NUMBER	DESCRIPTION							Units per Assembly	Usable on Code	
		1	2	3	4	5	6	7			
21 (Cont)											
24	1F117A	.	.							1	
25	110	.	.							3	
26	COMM	.	.							2	
27	1F57A	.	.							1	
28	MBB163	.	.							1	
29	1Y19	.	.							1	
30	72	.	.							1	
31	No Number	.	.							1	
32	1Y22	.	.							1	
33	COMM	.	.							3	
34	NC858	.	.							1	
35	MBB163	.	.							1	
36	NC855	.	.							1	
37	NC854	.	.							1	
38	1Y32	.	.							1	
39	72	.	.							1	
40	1Y24	.	.							1	
41	No Number	.	.							1	
42	1Y23	.	.							1	
43	MNB8	.	.							1	
44	1Y33	.	.							1	
45	MBB163	.	.							1	
46	COMM	.	.							2	
47	No Number	.	.							2	
48	COMM	.	.							2	
49	NC862	.	.							1	
50	COMM	.	.							3	
50a	No Number	.	.							2	
51	LM3A	.	.							1	
52	1Y31	.	.							1	
53	LM3A	.	.							1	
54	No Number	.	.							1	
55	NC860	.	.							1	
56	NC839	.	.							1	
57	NC861	.	.							1	
58	1Y21	.	.							1	
59	1Y18	.	.							1	
60	24	.	.							1	
61	1Y36	.	.							1	
62	1Y35	.	.							1	
63	1Y29	.	.							1	
64	1Y34	.	.							1	
65	1Y47	.	.							1	
66	1Y17	.	.							1	
67	20	.	.							1	
68	1Y26	.	.							1	
68a	No Number	.	.							1	
69	1Y25	.	.							1	
70	BNC325	.	.							2	
71	MTB1	.	.							1	
72	BNC136	.	.							1	
73	BNC558	.	.							1	
74	NC884	.	.							1	
75	BNC325	.	.							2	
76	MTB1	.	.							1	
77	BNC134B	.	.							1	
78	Deleted	.	.							1	
79	Deleted	.	.								
80	14	.	.							1	
81	NC856	.	.							1	
82	NC849	.	.							1	
83	NC850	.	.							1	
84	NC848	.	.							1	
85	5	.	.							1	
86	NC846A	.	.							1	
87	NC845	.	.							1	
88	1Y46	.	.							1	

Section II  
Group Assembly Parts List

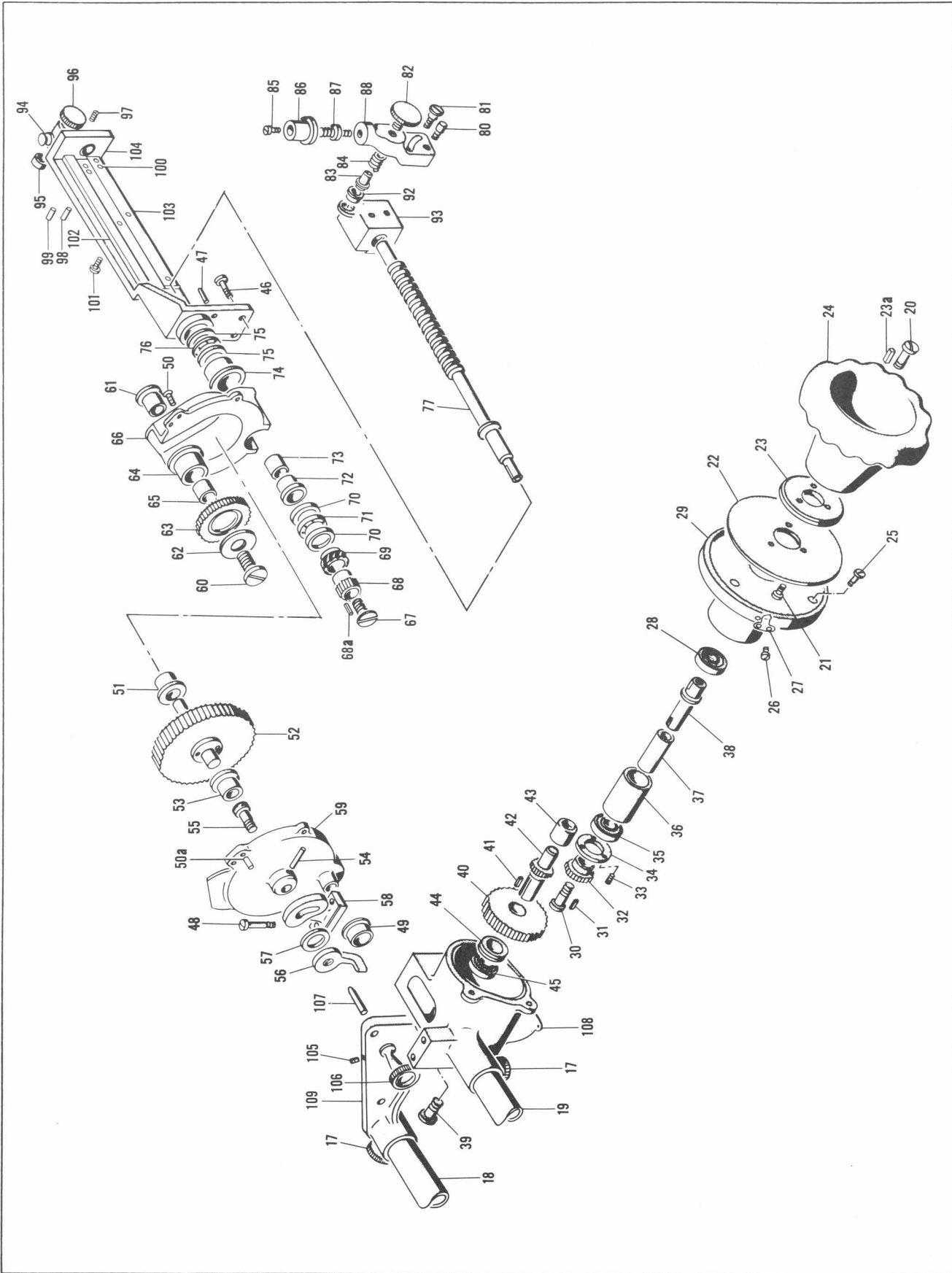


Figure 21. 16mm Cam Follower Support Bracket and Model 16FF Follow Focus Assemblies (Sheet 1 of 2)

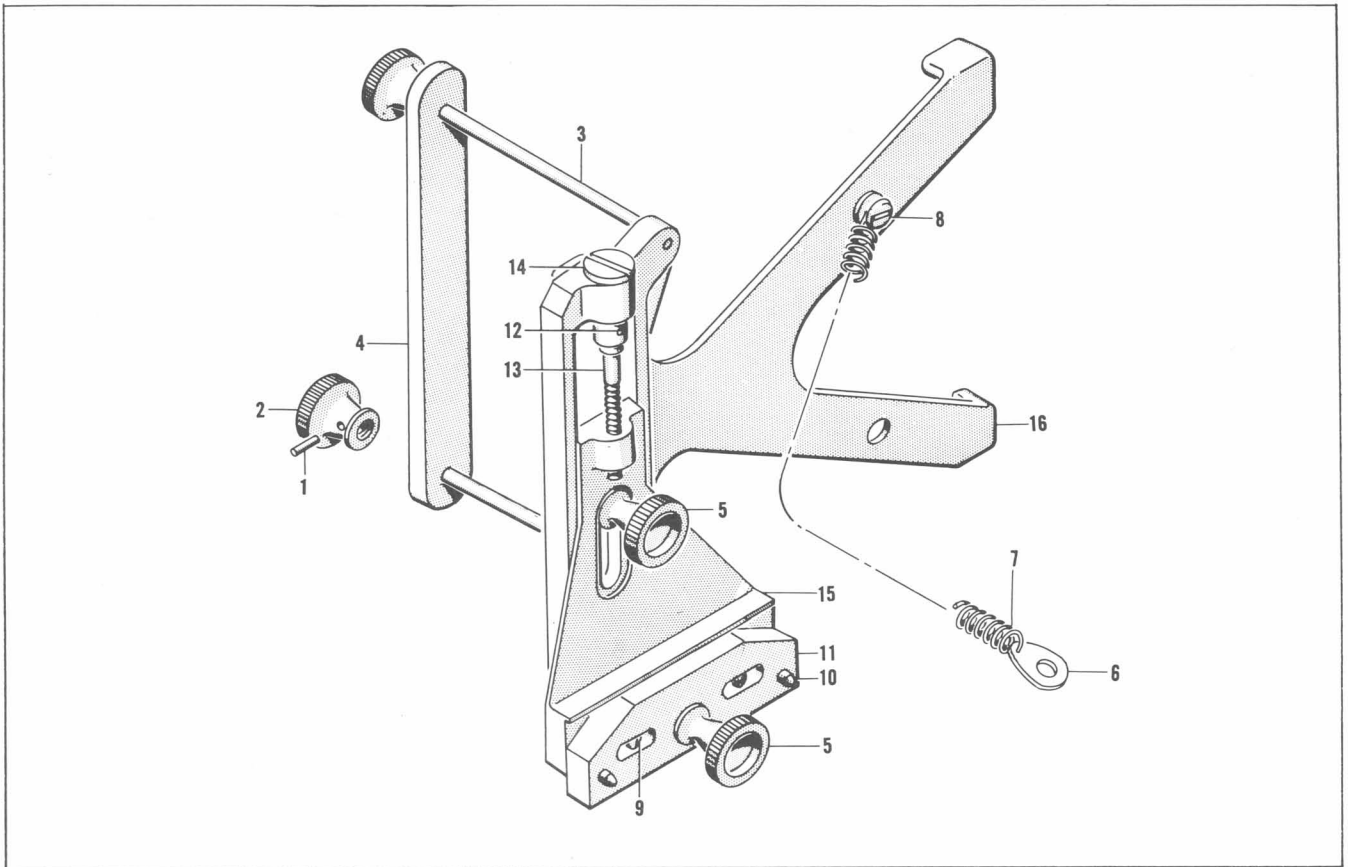


Figure 21. 16mm Cam Follower Support Bracket and Model 16FF Follow Focus Assemblies (Sheet 2 of 2)

Figure and Index Number	PART NUMBER	DESCRIPTION							Units per Assembly	Usable on Code
		1	2	3	4	5	6	7		
21 (Cont)										
89	Deleted									
90	Deleted									
91	Deleted									
92	1Y38	.	.							1
93	1Y60	.	.							1
94	1F165	.	.							1
95	NC897	.	.							1
96	M0A14	.	.							1
97	COMM	.	.							1
	1Y66	.	.							1
98	No Number	.	.							2
99	No Number	.	.							2
100	COMM	.	.							3
101	COMM	.	.							3
102	1Y58	.	.							1
103	1Y50	.	.							1
104	1Y16	.	.							1
105	LMB59	.	.							1
106	NC888	.	.							1
107	1V8	.	.							2
108	NP2	.	.							1
109	1Y15	.	.							1

Section II  
Group Assembly Parts List

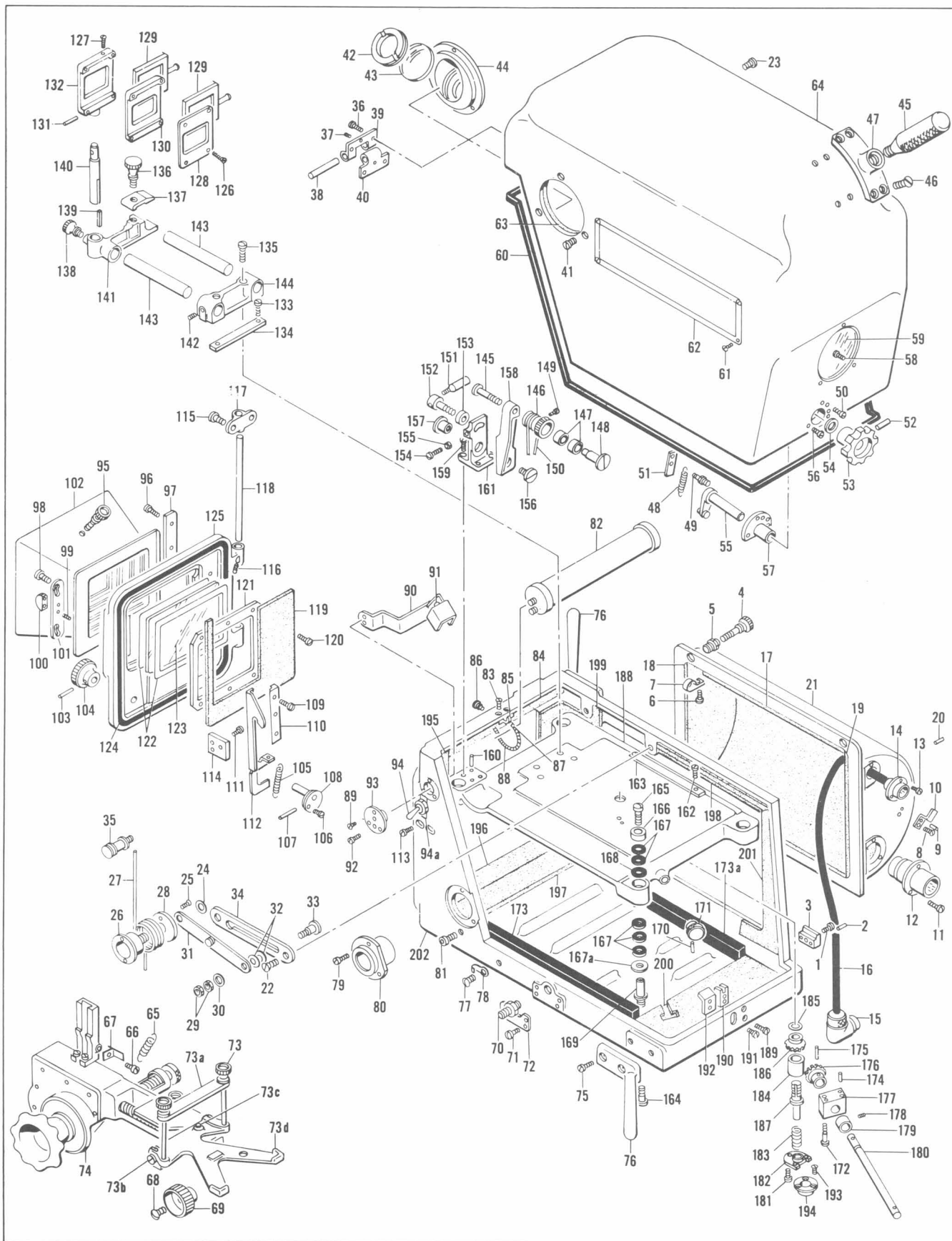


Figure 22. Model 1-F 16mm Blimp Assembly

Figure and Index Number	PART NUMBER	DESCRIPTION	Units per Assembly	Usable on Code		
					1	2
22	1F	BLIMP ASSY, 16mm (Model 1-F) . . . . .	1			
1	COMM	. SCREW, Machine fil hd No. 8-32 x 5/16 in. lg . . . . .	3			
2	No Number	. PIN, Dowel 1/8 dia x 1/2 in. lg . . . . .	6			
3	BNC-438A	. BLOCK . . . . .	3			
4	M0A14	. SCREW, Knurled thumb . . . . .	2			
5	1R28	. INSERT . . . . .	2			
6	13	. SCREW, Machine special . . . . .	3			
7	AN742D7C	. CLIP, Conduit (Mitchell Part No. 1F204) . . . . .	3			
8	COMM	. SCREW, Machine rd hd No. 6-32 x 3/16 in. lg . . . . .	1			
9	No Number	. PIN, Dowel 0.625 dia x 3/16 in. lg . . . . .	1			
10	1W25	. CLAMP, Cable . . . . .	1			
11	COMM	. SCREW, Machine fil hd No. 6-32 x 3/8 in. lg . . . . .	3			
12	1F162	. PLUG, 6 prong . . . . .	1			
	COMM	. SCREW, Machine fil hd No. 2-56 x 1/8 in. lg . . . . .	4			
	ELP20	. . SOCKET, (Altered from P6CG11 MFD by Cannon . . . . . Electric Co.)	1			
	ELP22	. . SOCKET, (Altered from P6CG12 MFD by Cannon . . . . . Electric Co.)	1			
	1F161	. . SHELL, 6 prong plug . . . . .	1			
13	COMM	. SCREW, Machine fil hd No. 4-40 x 5/16 in. lg . . . . .	3			
14	1R12	. PLUG, 3 prong (optional 1R84) . . . . .	1			
14	1R84	. PLUG, 4 prong (optional 1R12) . . . . .	1			
15	ELP13	. CONNECTOR, 90° cable 3 prong (optional ELP67) . . . . .	1			
15	ELP67	. CONNECTOR, 90° cable 4 prong (optional to ELP13) . . . . .	1			
16	No Number	. CONDUIT, No. 16-3 x 22 in. lg . . . . .	1			
17	1F223	. FELT, Motor cover insulating . . . . .	1			
18	1F221	. FELT, Motor cover insulating . . . . .	1			
19	1F220	. FELT, Motor cover insulating . . . . .	1			
20	No Number	. PIN, Dowel 1/8 dia x 3/16 in. lg . . . . .	1			
21	1F1A	. COVER, Motor . . . . .	1			
22	COMM	. SCREW, Machine flat hd No. 10-24 x 3/4 in. lg . . . . .	2			
23	108	. SCREW, Machine special . . . . .	1			
24	COMM	. WASHER, Flat steel 15/16 OD x 15/32 ID x 1/16 in. thk . . . . .	1			
25	COMM	. SCREW, Machine flat hd No. 3-48 x 3/16 in. lg . . . . .	2			
26	1F200	. STUD, Top support spring . . . . .	1			
27	1F198	. SPRING, Blimp top support . . . . .	1			
28	1F201	. WASHER, Top support spring stud side . . . . .	1			
29	COMM	. NUT, Hexagon No. 1/4-20 x 5/32 in. thk . . . . .	2			
30	1F203	. WASHER, Blimp top support pivot screw spring . . . . .	1			
31	1F233	. LINK ASSY, Blimp top support . . . . .	1			
	1F192	. . SPRING, End support . . . . .	1			
	1F126A	. . LINK, Blimp top support . . . . .	1			
32	1F202	. WASHER, Blimp top support pivot screw spacing . . . . .	2			
33	1F124A	. SCREW, Top support pivot . . . . .	1			
34	1F123B	. SLIDE, Blimp top support . . . . .	1			
35	1F199A	. STUD, Blimp top support . . . . .	1			
36	COMM	. SCREW, Machine fil hd No. 8-32 x 5/16 in. lg . . . . .	12			
37	COMM	. SCREW, Set No. 4-40 x 1/8 in. lg cup point . . . . .	2			
38	1F185	. PIN, Hinge . . . . .	2			
39	1F184	. HINGE, Upper half . . . . .	2			
40	1F183	. HINGE, Lower half . . . . .	2			
41	COMM	. SCREW, Machine fil hd No. 6-32 x 1/4 in. lg . . . . .	3			
42	1F152	. RING, Magnifying glass clamping . . . . .	1			
43	AEF127	. GLASS, Magnifying . . . . .	1			
44	1F155	. BRACKET, Magnifying glass angle . . . . .	1			
45	BNC950	. HANDLE, Blimp . . . . .	1			
46	COMM	. SCREW, Machine oval hd cad plated . . . . . No. 10-24 x 1/2 in. lg	4			
47	1F250	. BASE, Handle . . . . .	1			
48	1F138	. SPRING, Lock . . . . .	1			
49	1F160	. STUD, Blimp top lock . . . . .	1			
50	COMM	. SCREW, Machine fil hd No. 6-32 x 5/8 in. lg . . . . .	2			
51	1F137	. GUIDE, Blimp top . . . . .	1			
52	No Number	. PIN, Dowel 1/8 dia x 3/4 in. lg . . . . .	1			
53	1F17	. KNOB, Lid hold down . . . . .	1			
54	COMM	. WASHER, Flat steel 5/8 OD x 0.390 ID x 1/16 in. thk . . . . .	1			

Section II  
Group Assembly Parts List

Figure and Index Number	PART NUMBER	DESCRIPTION							Units per Assembly	Usable on Code	
		1	2	3	4	5	6	7			
22 (Cont)											
55	1F131	.								1	
56	COMM	.								2	
57	1F159	.								1	
58	16	.								3	
59	M0119	.								1	
60	3250	.								1	
61	COMM	.								6	
62	NP41	.								1	
63	1F180	.								1	
64	1F41A	.								1	
65	1F129	.								1	
66	1F128	.								1	
67	1F632	.								1	
68	18	.								1	
69	1F119A	.								1	
70	1F118A	.								1	
71	COMM	.								4	
72	1F92A	.								1	
	1F167	.								1	
	COMM	.								2	
73	1F171	.								2	
	COMM	.								1	
	1F173	.								1	
	1F172	.								1	
73a	1F170	.								1	
	1F165	.								1	
	1F130	.								3	
	COMM	.								1	
	1F177	.								1	
73b	1F169	.								1	
73c	FS11	.								1	
	12	.								1	
	1F168	.								1	
	1F13A	.								1	
73d	1F166	.								1	
74	1F179	.								1	
75	COMM	.								4	
76	BNC575	.								2	
77	55	.								1	
78	BNC453	.								1	
79	COMM	.								3	
80	1F93	.								1	
81	COMM	.								2	
82	1F207	.								1	
	1F246	.								2	
	1F248	.								2	
	COMM	.								1	
	1F247	.								1	
	1F213	.								1	
	1F211	.								1	
	1F210	.								1	
	1F209	.								1	
	1F212	.								1	
	1F241	.								3	
	1F208	.								1	
83	COMM	.								2	
84	1F242	.								1	
85	1F228	.								1	
86	1F229	.								1	
87	COMM	.								1	
88	1F230	.								1	
89	COMM	.								2	
90	1F225	.								1	
91	1F238	.								1	
	COMM	.								1	
	1F158	.								1	

Figure and Index Number	PART NUMBER	DESCRIPTION							Units per Assembly	Usable on Code
		1	2	3	4	5	6	7		
22 (Cont)	COMM	. .	. .	NUT, Hexagon steel No. 10-32 x 1/8 in. thk . . . . .					1	
	1F151	. .	. .	NUT, Lens light clamp . . . . .					1	
	18	. .	. .	SCREW, Machine (Mitchell Standard) . . . . .					1	
	1F226	. .	. .	SHADE, Lens mount light . . . . .					1	
	1F149A	. .	. .	BRACKET, Lens mount light . . . . .					1	
92	COMM	. .	. .	SCREW, Machine flat hd No. 6-32 x 1/4 in. lg . . . . .					3	
93	1F150	. .	. .	PLATE, Light bracket mounting . . . . .					1	
94	ELS8	. .	. .	SWITCH, Toggle . . . . .					1	
94a	NP51	. .	. .	NAMEPLATE . . . . .					1	
95	FS11	. .	. .	SCREW, Knurled thumb . . . . .					1	
96	COMM	. .	. .	SCREW, Machine fil hd No. 6-32 x 1/2 in. lg . . . . .					3	
97	1F164	. .	. .	STRIP, Sunshade hold down . . . . .					1	
98	55	. .	. .	SCREW, Machine special . . . . .					2	
99	COMM	. .	. .	SCREW, Drive No. 2 x 3/16 in. lg (MFD by Parker Kalon Corp.) . . . . .					2	
100	NC222A	. .	. .	HANDLE, Lock . . . . .					1	
101	NC221	. .	. .	LOCK . . . . .					1	
102	1F163	. .	. .	SUNSHADE . . . . .					1	
103	No Number	. .	. .	PIN, Dowel 1/16 dia x 3/4 in. lg . . . . .					1	
104	1F191	. .	. .	KNOB, Front door catch . . . . .					1	
105	1F138	. .	. .	SPRING, Lock . . . . .					2	
106	3	. .	. .	SCREW, Machine special . . . . .					1	
107	No Number	. .	. .	PIN, Dowel 1/16 dia x 1 in. lg . . . . .					1	
108	1F235	. .	. .	ECCECTRIC ASSY, Front door catch . . . . .					1	
109	COMM	. .	. .	SCREW, Machine fil hd No. 6-32 x 1/2 in. lg . . . . .					3	
110	1F187	. .	. .	GIB, Front door catch . . . . .					1	
111	COMM	. .	. .	SCREW, Hollow hd cap No. 6-32 x 1/8 in. lg . . . . .					1	
112	1F186	. .	. .	HOOK, Front door catch . . . . .					1	
113	COMM	. .	. .	SCREW, Machine fil hd No. 8-32 x 5/16 in. lg . . . . .					2	
114	1F188	. .	. .	PLATE, Front door catch hook . . . . .					1	
115	COMM	. .	. .	SCREW, Machine fil hd No. 6-32 x 1/2 in. lg . . . . .					4	
116	COMM	. .	. .	SCREW, Headless set No. 8-32 x 3/16 in. lg . . . . .					1	
117	1F4	. .	. .	HINGE, Front door . . . . .					2	
118	1F2	. .	. .	PIN, Front door hinge . . . . .					1	
119	1F214	. .	. .	FELT, Blimp door insulating . . . . .					1	
120	COMM	. .	. .	SCREW, Machine fil hd No. 4-40 x 3/8 in. lg . . . . .					6	
121	1F42A	. .	. .	FRAME, Front door window . . . . .					1	
122	1F45A	. .	. .	GASKET, Front door window . . . . .						
123	1F44A	. .	. .	WINDOW, Front door . . . . .					1	
124	No Number	. .	. .	SEAL, Sponge rubber 1/4 in. square . . . . .					1	
125	1F3B	. .	. .	DOOR, Front . . . . .					1	
126	COMM	. .	. .	SCREW, Machine flat head No. 2-56 x 3/4 in. lg . . . . .					4	
127	COMM	. .	. .	SCREW, Machine rd hd No. 2-56 x 3/32 in. lg . . . . .					2	
128	1F146	. .	. .	COVER, Filter holder pocket . . . . .					1	
129	1F234	. .	. .	HOLDER ASSY, Filter . . . . .					2	
130	1F145	. .	. .	POCKET, Filter holder . . . . .					1	
131	No Number	. .	. .	PIN, Dowel 3/32 dia x 1/2 in. lg . . . . .					1	
132	1F147	. .	. .	BRACKET, Vertical filter . . . . .					1	
133	COMM	. .	. .	SCREW, Machine fil hd No. 6-32 x 7/16 in. lg . . . . .					2	
134	1F30	. .	. .	RAIL, Insulated base front . . . . .					1	
135	COMM	. .	. .	SCREW, Machine fil hd No. 10-24 x 7/8 in. lg . . . . .					2	
136	AM28-5	. .	. .	SCREW, Knurled thumb . . . . .					1	
137	1F144	. .	. .	CLAMP, Horizontal slide bracket . . . . .					1	
138	LMB41	. .	. .	SCREW, Knurled thumb . . . . .					1	
139	No Number	. .	. .	KEY, 3/32 x 3/32 x 1 in. lg . . . . .					1	
140	1F142	. .	. .	BAR, Matte vertical slide . . . . .					1	
141	1F43	. .	. .	BRACKET, Horizontal sliding . . . . .					1	
142	COMM	. .	. .	SCREW, Headless set cup point No. 10-24 x 3/16 in. lg . . . . .					2	
143	1F157	. .	. .	BAR, Filter holder sliding bracket . . . . .					2	
144	1F156	. .	. .	BRACKET, Horizontal slide bar . . . . .					1	
145	5	. .	. .	SCREW, Machine special . . . . .					1	
146	1F67	. .	. .	DRUM, Lens gear driving . . . . .					1	
147	MNB3	. .	. .	BEARING, Needle (MFD by The Torrington Co., Part No. B-47) . . . . .					2	

Section II  
Group Assembly Parts List

Figure and Index Number	PART NUMBER	DESCRIPTION	Units per Assembly	Usable on Code		
					1	2
22 (Cont)						
148	1F69	. SHAFT, Lens gear driving drum . . . . .	1			
149	1F182	. SCREW, Cable lock . . . . .	1			
150	1F237	. CABLE, Flex braided monel 0.035 dia x 33.5 in. lg . . . . .	1			
151	FH42A	. HANDLE . . . . .	1			
152	1F46	. STUD, Clamp . . . . .	1			
153	1F75	. WASHER, Friction . . . . .	1			
154	COMM	. SCREW, Machine fil hd No. 4-40 x 5/8 in. lg . . . . .	1			
155	COMM	. NUT, Hexagon No. 4-40 NC-2 . . . . .	1			
156	1F80	. SCREW, Support pin. . . . .	1			
157	1F79	. PIN, Driving gear support . . . . .	1			
158	1F43	. SUPPORT, Lens driving gear . . . . .	1			
159	COMM	. SCREW, Machine fil hd No. 10-24 x 5/16 in. lg . . . . .	2			
160	No Number	. PIN, Dowel 1/8 dia x 1/2 in. lg . . . . .	2			
161	1F94	. BRACKET, Lens driving gear support . . . . .	1			
162	COMM	. SCREW, Machine fil hd No. 6-32 x 7/16 in. lg . . . . .	2			
163	1F29	. RAIL, Insulated base side . . . . .	1			
164	108	. SCREW, Machine special . . . . .	4			
165	5	. SCREW, Machine special . . . . .	4			
166	1F193	. COVER, Hold down stud rubber washer . . . . .	4			
167	1F195	. WASHER, Insulated base hold down stud rubber . . . . .	20			
167a	COMM	. WASHER, Brass 1/4 in. ID . . . . .	4			
168	1F619	. WASHER, Insulating . . . . .	4			
169	1F194	. STUD, Insulated base hold down . . . . .	4			
170	No Number	. PIN, Dowel 1/8 dia x 5/8 in. lg . . . . .	1			
171	1F21	. KNOB, Camera hold down screw . . . . .	1			
172	COMM	. SCREW, Machine fil hd No. 6-32 x 1-1/8 in. lg . . . . .	2			
173	1F613	. PAD, Insulator . . . . .	1			
173a	1F614	. PAD, Insulator . . . . .	1			
174	No Number	. PIN, Dowel 3/32 dia x 1/2 in. lg . . . . .	2			
175	No Number	. PIN, Taper No. 000 x 5/8 in. lg . . . . .	1			
176	1F26	. GEAR, Hold down screw driver . . . . .	1			
177	1F24	. BLOCK, Camera hold down bearing . . . . .	1			
178	COMM	. SCREW, Set headless No. 8-32 x 3/16 in. lg . . . . .	1			
179	1F84	. COLLAR, Hold down shaft thrust . . . . .	1			
180	1F20	. SHAFT, Camera hold down screw . . . . .	1			
181	COMM	. SCREW, Machine fil hd No. 3-48 x 1/4 in. lg . . . . .	3			
182	1F11	. PLATE, Camera hold down cover . . . . .	1			
183	B8-3	. SPRING . . . . .	1			
184	1F78	. SPACER, Camera hold down gear . . . . .	1			
185	1F232	. WASHER, Hold down screw gear . . . . .	1			
186	1F14	. GEAR ASSY, Lock screw . . . . .	1			
187	1F16	. SCREW, Camera hold down . . . . .	1			
188	1F23	. BASE, Insulated . . . . .	1			
189	COMM	. SCREW, Machine fil hd No. 6-32 x 3/4 in. lg . . . . .	2			
190	1F136	. SEAT, Blimp top guide . . . . .	1			
191	COMM	. SCREW, Machine fil hd No. 10-32 x 7/16 in. lg . . . . .	2			
192	1F135	. HASP, Lock . . . . .	1			
193	COMM	. SCREW, Machine flat hd No. 4-40 x 5/16 in. lg . . . . .	3			
194	1F12	. BUSHING, Hold down . . . . .	1			
195	1F215	. FELT, Blimp base left side insulating . . . . .	1			
196	1F216	. FELT, Blimp base front insulating . . . . .	1			
197	1F217	. FELT, Blimp base bottom front insulating . . . . .	1			
198	1F218	. FELT, Blimp base top right insulating . . . . .	1			
199	1F219	. FELT, Blimp front insulating . . . . .	1			
200	1F222	. FELT, Blimp base bottom rear insulating . . . . .	1			
201	1F224	. FELT, Blimp base right side rear . . . . .	1			
202	1F25A	. BASE, Blimp . . . . .	1			



Figure and Index Number	PART NUMBER	DESCRIPTION	Units	Usable on Code
			per Assembly	
		1 2 3 4 5 6 7		
23	1F179	FOLLOW FOCUS ASSY, 16mm blimp	1	
1	18	. SCREW, Standard (Mitchell)	1	
2	1F117A	. KNOB, Focus control	1	
3	COMM	. SCREW, Fil hd No. 3-48 x 1/8 in. lg	3	
4	1F178	. WASHER, Hand knob	1	
5	1F53	. PLATE, Dial	1	
6	COMM	. SCREW, Fil hd No. 3-48 x 5/16 in. lg	6	
7	COMM	. SCREW, Fil hd No. 2-56 x 1/8 in. lg	2	
8	1F57A	. POINTER, Dial	1	
9	COMM	. SCREW, Fil hd No. 3-48 x 7/8 in. lg	2	
10	5	. SCREW, Standard (Mitchell)	1	
11	COMM	. KEY, Woodruff 1/16 in. sq x 3/8 in. lg	1	
12	COMM	. KEY, Woodruff 1/16 in. sq x 1/4 in. lg	1	
13	1F102	. GEAR, Dial driving	1	
14	COMM	. SCREW, Flat hd No. 2-56 x 3/16 in. lg	3	
15	1F105	. RETAINER, Dial bearing	1	
16	1F103	. SPACER, Dial gear bearing outer	1	
17	1F104	. SPACER, Dial gear bearing inner	1	
18	1F101A	. SHAFT, Dial driving gear	1	
19	1F141	. NUT, Bearing cover	1	
20	5	. SCREW, Standard (Mitchell)	2	
21	MBB24	. BEARING, Ball	1	
22	1F74	. COVER, Gear housing	1	
23	1F98	. GEAR, Cross shaft driving	1	
24	1F59	. GEAR, Spiral shaft driving	1	
25	COMM	. KEY, Woodruff 1/16 in. sq x 3/4 in. lg	1	
26	1F58	. GEAR, Dial driven	1	
27	MBB163	. BEARING, Ball	4	
28	5	. SCREW, Standard (Mitchell)	1	
29	1F99	. GEAR, Cross shaft driven	1	
30	1F100	. SPACER, Cross shaft gear	1	
31	COMM	. SCREW, Fil hd No. 3-48 x 1/4 in. lg	3	
32	1F72	. RETAINER, Cross shaft bearing	1	
33	COMM	. SCREW, Fil hd No. 6-32 x 1/4 in. lg	3	
34	MBB146	. BEARING, Ball	1	
35	1F621	. CLAMP, Follow focus screw	1	
36	1F606	. SPACER, Follow focus screw clamp	3	
37	MBB24	. BEARING, Ball	1	
38	1F66	. DRUM, Adjustable lower cable	1	
39	1F227	. SPRING, Cable drum	1	
40	COMM	. KEY, Woodruff 3/32 in. sq x 5/8 in. lg	1	
41	COMM	. SCREW, Fil hd No. 2-56 x 1/8 in. lg	2	
42	1F70	. DRUM, Fixed lower cable	1	
43	1F47	. NUT, Pivot adjusting	2	
44	1F48	. PLATE, Pivot clutch	1	
45	1F71	. SHAFT, Cable drive cross	1	
46	1F91	. HOUSING, Cross shaft	1	
47	COMM	. SCREW	2	
48	1F6B	. DOVETAIL, Female	1	
49	FS11	. SCREW, Finder support thumb	1	
50	1F174-15	. CAM, 15mm B & L Baltar	1	
50	1F174-17.5	. CAM, 17.5mm B & L Baltar	1	
50	1F174-20	. CAM, 20mm B & L Baltar	1	
50	1F174-25	. CAM, 25mm B & L Baltar	1	
50	1F174-30	. CAM, 30mm B & L Baltar	1	
50	1F174-35	. CAM, 35mm B & L Baltar	1	
50	1F174-40	. CAM, 40mm B & L Baltar	1	
50	1F174-50	. CAM, 50mm B & L Baltar	1	
50	1F174-75	. CAM, 75mm B & L Baltar	1	
51	COMM	. SCREW, Fil hd No. 8-32 x 5/16 in. lg	2	
52	1F175	. PLATE, "BE" finder to blimp cam shift	1	
53	1F176	. DOWEL, "BE" finder to blimp cam locating	2	
54	MBB5	. BEARING, Ball	1	
55	COMM	. WASHER, Lock No. 5 x 1/32 in. thk	1	

Section II  
Group Assembly Parts List

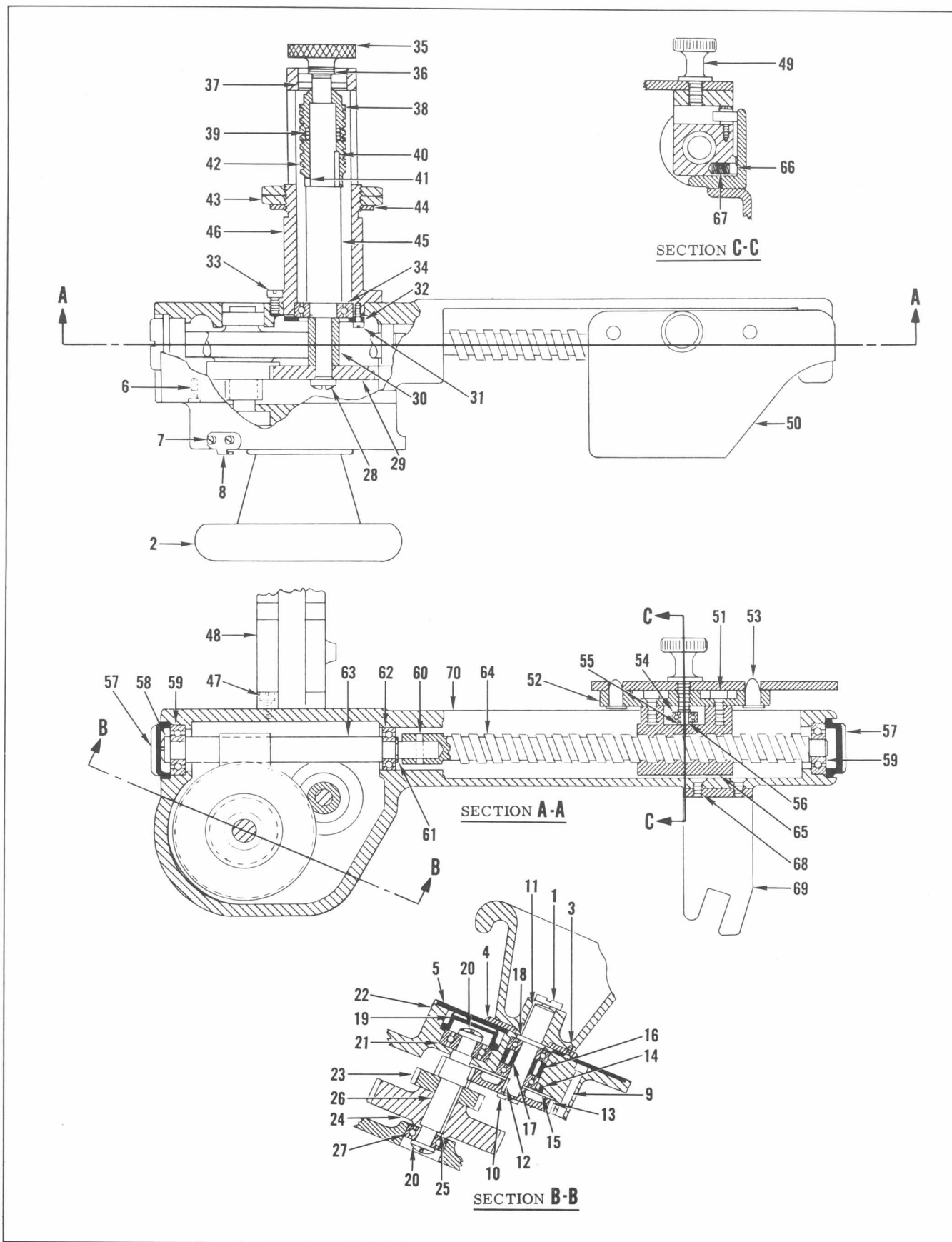


Figure 23. 16mm Blimp Follow Focus Assembly

Section II  
Group Assembly Parts List

Figure and Index Number	PART NUMBER	DESCRIPTION	Units per Assembly	Usable on Code		
					1	2
23 (Cont)						
56	1F61	. SCREW, Roller pivot . . . . .	1			
57	1F141	. NUT, Bearing cover . . . . .	2			
58	5	. SCREW, Standard (Mitchell) . . . . .	1			
59	MBB24	. BEARING, Ball . . . . .	2			
60	No Number	. PIN, Dowel 3/32 dia x 7/16 in. lg . . . . .	1			
61	5100-25	. RING, Retaining (MFD by Truarc Co.) . . . . .	1			
62	MBB163	. BEARING, Ball . . . . .	1			
63	1F32	. GEAR, Spiral shaft . . . . .	1			
64	1F31	. SHAFT, Spiral . . . . .	1			
65	1F63A	. NUT, Finder cam . . . . .	1			
66	1F206	. BUTTON, Finder cam nut sliding . . . . .	1			
67	1F205	. SPRING, Finder cam nut . . . . .	1			
68	COMM	. SCREW, Flat hd No. 6-32 x 3/16 in. lg . . . . .	2			
69	1F62A	. ARM, Finder stop and clamp . . . . .	1			
70	1F60B	. HOUSING, Gear and screw . . . . .	1			