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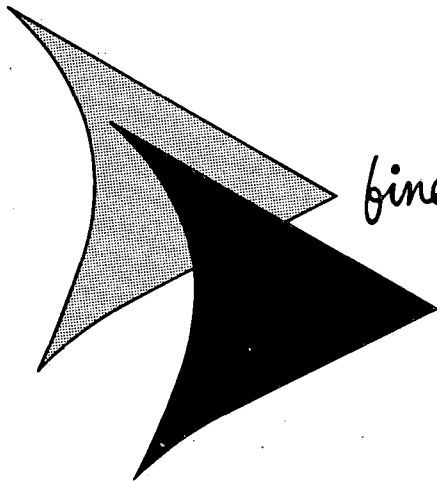
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PARTS CATALOG

COMMERCIAL JAN PROJECTORS

DESIGNS 614CB, 614CBM, 614CBRM, 614CD



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Bell & Howell

**GENERAL SERVICE DEPT.
7125 N. KIMBALL AVE.
CHICAGO 45, ILLINOIS**

PART NO. 620855A

1 OCTOBER 1956
Revised 1 October 1959

This Parts Catalog covers four models of the Design 614 projector — 614CB (coded A), 614 CBM (coded B), 614CBRM (coded C) and 614CD (coded D). Wherever the "Code" column has been left blank, the part listed applies to all models of the projector.

Note, however, that there are instances where certain items apply only to one or two of the models. In figure 1, item 22, the 067254 amplifier and speaker assembly is used only on the 614CB projector; the 067274 assembly is used on the 614CBM and 614CBRM; and the 067484 assembly is used on the 614CD.

FIG. & INDEX NO.	PART NO.	DESCRIPTION	UNITS PER ASSY	USABLE ON CODE
1-1	611332	BELT, Feed reel spring	2	ABC
-1	620975	BELT, Rear reel arm	1	D
-2	611333	BELT, Take-up reel spring	2	ABC
-2	620976	BELT, Front reel arm	1	D
-3	602410	BRUSH, Aperture	1	
-4	063111	BOTTLE ASSEMBLY, Lubricating oil	1	ABC
-4	067480	BOTTLE ASSEMBLY, Lubricating oil	1	D
-5	613248	TISSUE, Lens cleaning	1	
-6	611895	FUSE, 15 amp, 250 volt, 3AB	1	
-7	061065	LENS, Projector, 2-in. f/1.6	1	
-8	613251	LAMP, Candelabra base	1	
-9	600474	LAMP, Projection, 750w, 115v	1	
-10	611654	SOCKET, Bakelite prefocused lamp	1	
-11	600948	SCREW, Flat head	2	
-12	061143	LAMPHOLDER ASSEMBLY, Complete	1	
-13	600803	SCREW, Round head	2	
-14	600797	WASHER, Lock	2	
-15	611652	LEVER, Lamp focusing	2	
-16	611651	SLEEVE, Lamp adjusting shaft	2	
-17	No Number	LAMPHOLDER SUBASSEMBLY	1	
-18	065023	ARM ASSEMBLY, Feed reel (see figure 3 for detail parts)	1	ABC
-18	067461	ARM ASSEMBLY, Feed reel (see figure 3 for detail parts)	1	D
-19	611221	SCREW, Thumb, reel arm (p/o 065023)	1	
-20	065024	ARM ASSEMBLY, Take-up reel (see figure 4 for detail parts)	1	ABC
-20	067462	ARM ASSEMBLY, Take-up reel (see figure 4 for detail parts)	1	D
-21	611221	SCREW, Thumb, reel arm (p/o 065024)	1	
-22	067254	AMPLIFIER AND SPEAKER ASSEMBLY (See figure 30 for detail parts)	1	A
-22	067274	AMPLIFIER AND SPEAKER ASSEMBLY (See figure 30 for detail parts)	1	BC
-22	067484	AMPLIFIER AND SPEAKER ASSEMBLY (See figure 30 for detail parts)	1	D
-23	620042	SCREW, Phillips head	6	
-24	600797	WASHER, Lock	6	
-25	620044	SCREW, Phillips head	3	
-26	600735	WASHER, Lock	3	
-27	613267	PLATE, Junction box, front	1	
-28	600808	SCREW, Round head	4	
-29	600735	WASHER, Lock	4	
-30	065193	PLATE ASSEMBLY, Switch (see figure 5 for detail parts)	1	ABC
-30	067435	PLATE ASSEMBLY, Switch (see figure 5 for detail parts)	1	D
-31	620044	SCREW, Phillips head	3	
-32	600735	WASHER, Lock	7	
-33	620000	SCREW, Round head	3	
-34	620011	SCREW, Round head	1	
-35	615925	NUT, Cam lock	4	
-36	613271	CLAMP, Cable	1	
-37	067463	DOOR ASSEMBLY, Projector	1	D

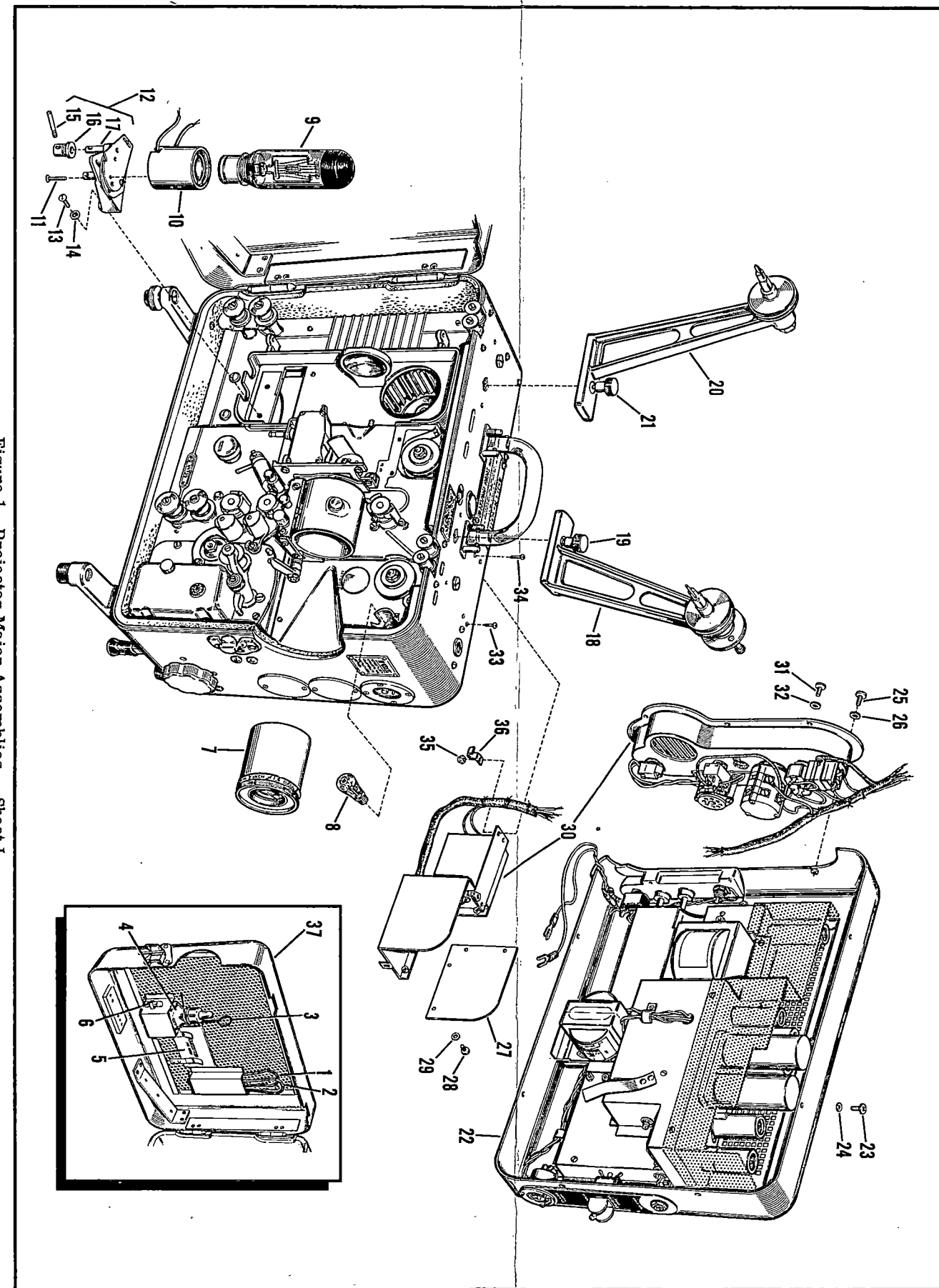


Figure 1. Projector Major Assemblies — Sheet I

FIG. & INDEX NO.	PARTS NO.	DESCRIPTION	UNITS							USABLE ON CODE
			1	2	3	4	5	6	7	
2-1	611895	. FUSE, 15 amp, 250 volt							1	ABC
-1	611895	. FUSE, 15 amp, 250 volt							2	D
-2	603292	. FUSEHOLDER							1	ABC
-2	603292	. FUSEHOLDER							2	D
-3	620000	. SCREW, Round head (2 req'd per bracket)							AR	
-4	615925	. NUT, Cam lock (2 req'd per bracket)							AR	
-5	600735	. WASHER, Lock (2 req'd per bracket)							AR	
-6	613268	. BRACKET, Fuseholder							1	
-6	613268	. BRACKET, Fuseholder							2	D
-7	611516	. FLYWHEEL, Stabilizer							1	
-8	611566	. SCREW, Flywheel retaining							1	
-9	613271	. CLAMP, Cable							1	
-10	620043	. SCREW, Phillips head							1	
-11	600797	. WASHER, Lock							1	
-12	600982	. NUT, Hex							1	
-13	613237	. NUT, Hex							1	
-14	620072	. KNOB, Loop setter rod							1	
-15	067253	. PLATE ASSEMBLY, Mechanism front and rear (see figure 6 for detail parts)							1	ABC
-15	067411	. PLATE ASSEMBLY, Mechanism front and rear (see figure 6 for detail parts)							1	D
-16	620030	. SCREW, Binder head							2	
-17	600733	. WASHER, Lock							2	
-18	620024	. SCREW, Round head							1	
-19	600748	. WASHER, Lock							1	
-20	600293	. WASHER, Lock							1	
-21	600996	. NUT, Hex							1	
-22	620043	. SCREW, Phillips head							1	
-23	600797	. WASHER, Lock							1	
-24	620710	. WASHER, Flat							1	
-25	600982	. NUT, Hex							1	
-26	611255	. SCREW, Hex head							2	
-27	600733	. WASHER, Lock							2	
-28	613269	. WASHER, Flat							2	
-29	065015	. CASE ASSEMBLY, Projector (see figure 32 for detail parts)							1	ABC
-29	067416	. CASE ASSEMBLY, Projector (see figure 32 for detail parts)							1	D
-30	612947	. RECEPTACLE							1	C
-31	613271	. CLAMP, Cable							1	C
-32	600985	. NUT, Hex							1	C
-33	611735	. WASHER							1	C
-34	611805	. SCREW, Oval head							1	C
-35	620839	. BRACKET							1	C
-36	82727	. SCREW, Binding head							1	C
-37	620802	. RELAY							1	C
-38	600808	. SCREW, Round head							2	C
-39	600735	. WASHER							4	C
-40	620838	. BRACKET							1	C
-41	620837	. BRACKET							1	C
-42	067282	. BOX ASSEMBLY, Reproduce - record relay (see figure 40 for detail parts)							1	C
-43	611428	. CAPACITOR							1	C
-44	7856	. SCREW, Round head							1	C
-45	600735	. WASHER							1	C
-46	620000	. SCREW, Round head							1	C
-47	600981	. NUT, Hex							1	C
-48	600935	. WASHER							1	C
-49	620915	. BUTTON, Plug							1	D

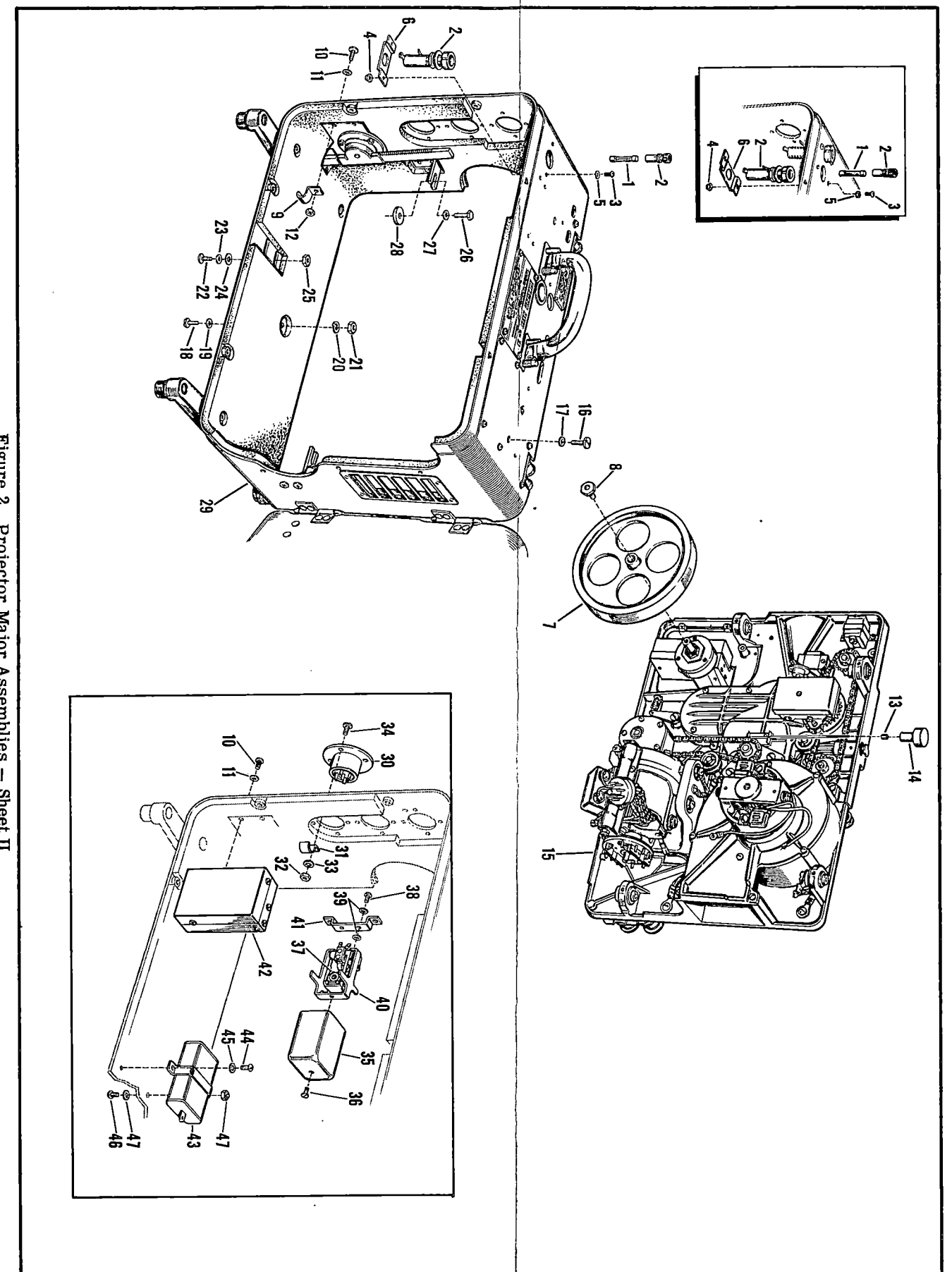


Figure 2. Projector Major Assemblies - Sheet II

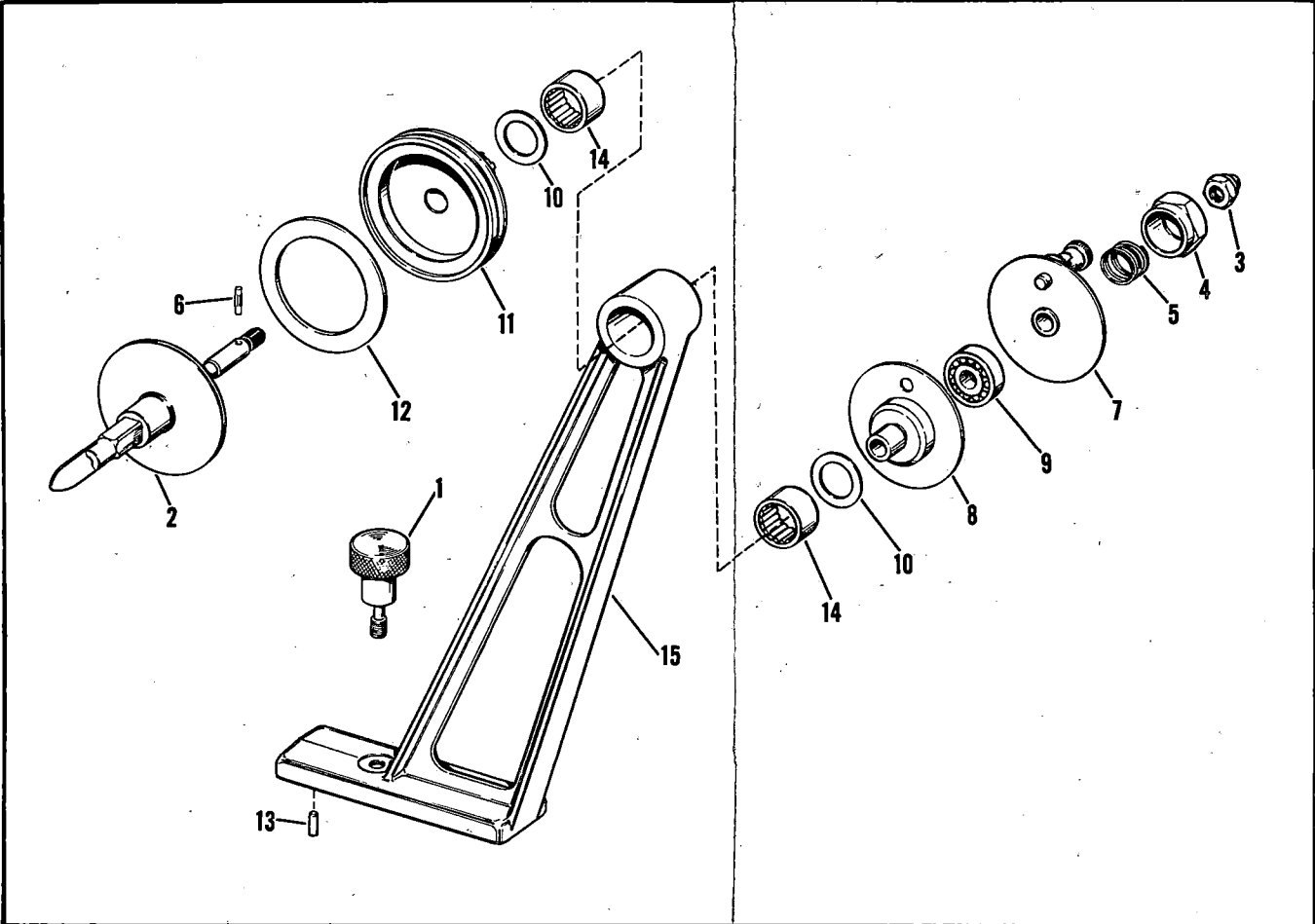


Figure 3. Feed Reel Arm Assembly

FIG. & INDEX NO.	PART NO.	DESCRIPTION							UNITS PER ASSY	USABLE ON CODE
		1	2	3	4	5	6	7		
3-	065023	ARM ASSEMBLY, Feed reel							—	ABC
3-	067461	ARM ASSEMBLY, Feed reel							—	D
-1	611221	. SCREW, Thumb							1	
-2	061004	. SPINDLE ASSEMBLY							1	
-3	611916	. NUT, Elastic stop							1	
-4	611913	. NUT, Spindle tension							1	
-5	611232	. SPRING, Spindle tension							1	
-6	611229	. PIN, Tension plate driving							1	ABC
-6	620868	. PIN, Tension plate driving							1	D
-7	061110	. CLUTCH ASSEMBLY, Feed spindle							1	
-8	061168	. CLUTCH PLATE SUBASSEMBLY, Feed spindle							1	
-9	611240	. BEARING, Ball							1	
-10	611914	. WASHER, Thrust							1	
-11	611918	. PULLEY, Feed spindle							1	ABC
-11	621035	. PULLEY, Feed spindle							1	D
-12	613373	. WASHER, Friction							1	
	063121	. ARM SUBASSEMBLY, Feed reel							1	
-13	611230	. PIN, Driv-lok							2	
-14	611917	. BEARING, Thrust							2	
-15	620028	. ARM, Feed reel							1	

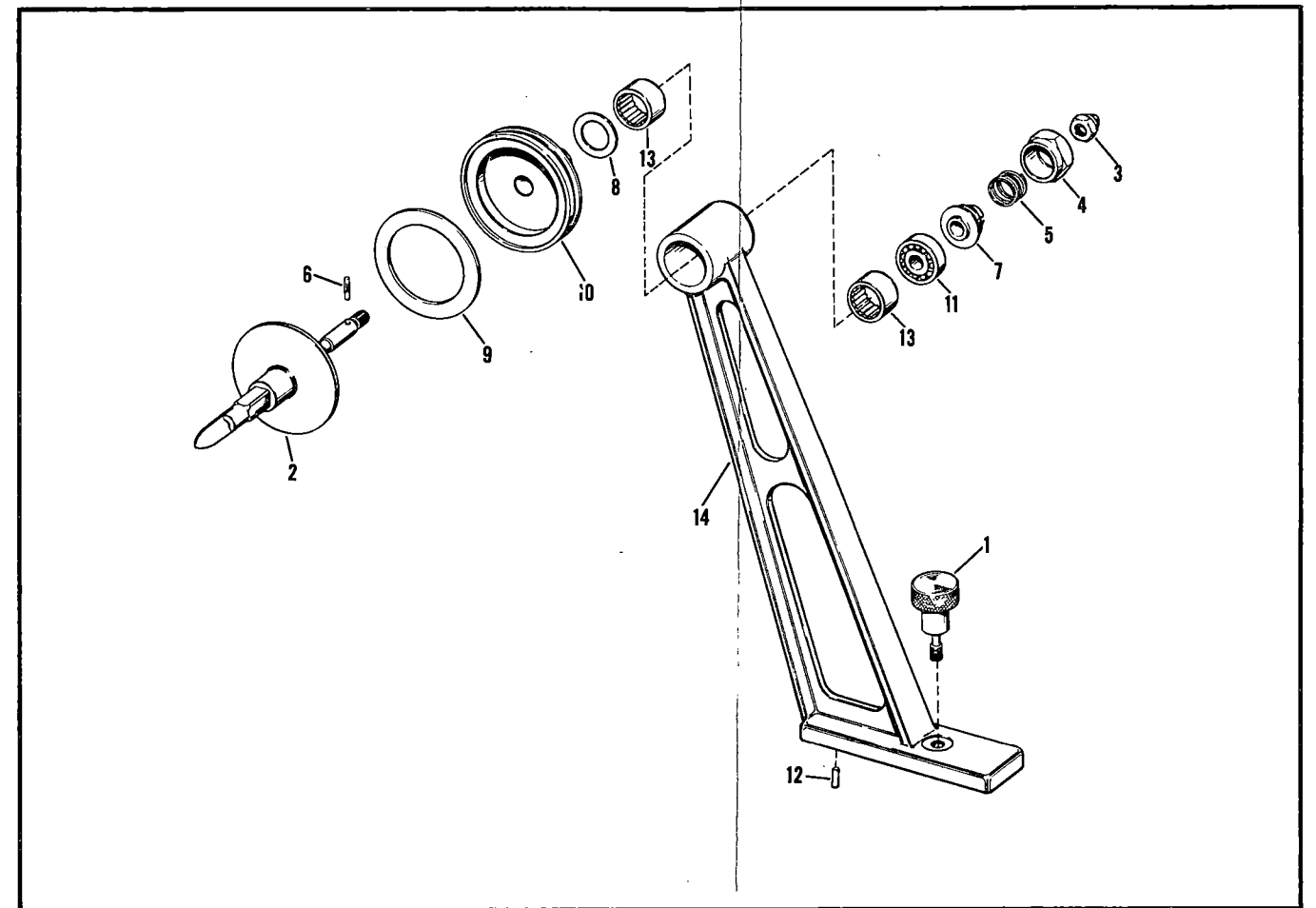


Figure 4. Take-up Reel Arm Assembly

FIG. & INDEX NO.	PART NO.	DESCRIPTION							UNITS PER ASSY	USABLE ON CODE
		1	2	3	4	5	6	7		
4-	065024								—	ABC
4-	067462								1	D
-1	611221								1	
-2	061004								2	
-3	611916								1	
-4	611913								1	
-5	611232								1	
-6	611229								1	ABC
-6	620868								1	D
-7	611237								1	
-8	611914								1	
-9	613373								1	
-10	611919								1	ABC
-10	621036								1	D
	063122								1	
-11	611240								1	
-12	611230								2	
-13	611917								2	
-14	620029								1	

FIG. & INDEX NO.	PART NO.	DESCRIPTION	UNITS PER ASSY							USABLE ON CODE
			1	2	3	4	5	6	7	
5-	065193	PLATE ASSEMBLY, Switch	1							ABC
5-	067435	PLATE ASSEMBLY, Switch	1							D
-1	613221	LAMPHOLDER, Candelabra							1	
-2	063113	FILTER AND JUNCTION BOX ASSEMBLY							1	ABC
-2	067445	FILTER AND JUNCTION BOX ASSEMBLY							1	D
-3	613251	LAMP, Candelabra base							1	
-4	611628	KNOB, Amplifier control							1	ABC
-4A	613342	KNOB, Rotary switch							1	D
-5	COML	SETSCREW, Allen head, No. 8-32 by 3/8 in.							1	ABC
-5A	600832	SCREW, Switch knob							1	D
-6	621049	PLUG, Button							1	
-7	611882	SWITCH, SPST							1	ABC
-7	620860	SWITCH, DPST							1	D
-8	No Number	NUT (Supplied with switch)							2	
-9	611735	WASHER, Inner cut, 15/32 in.							1	ABC
-9	621048	DISC, Switch locating							1	D
-10	611894	SWITCH, DPDT toggle							1	
-11	No Number	NUT (Supplied with switch)							2	
-12	611735	WASHER, Inner cut, 15/32 in.							1	ABC
-12	621048	DISC, Switch locating							1	D
-13	80486	SCREW, Binding head							1	ABC
-13A	613343	STUD, Switch knob index							1	D
-14	611897	SWITCH, Rotary snap							1	ABC
-14	621018	SWITCH, Rotary snap							1	D
-15	No Number	NUT (Supplied with switch)							2	
-16	611735	WASHER, Inner cut, 15/32 in.							1	ABC
-16	621048	DISC, Switch locating							1	D
-16A	621033	GUARD, Switch							1	D
-17	620769	PLATE, Switch							1	ABC
-17	621047	PLATE, Switch							1	D
-18	614289	BRACKET, Pilot light							1	
-19	600884	SCREW, Flat head							1	
-20	611734	WASHER, Lock							1	
-21	600985	NUT, Hex							1	
-22	600820	SCREW, Flat head							1	
-23	600735	WASHER, Lock							1	
-24	601190	NUT, Small hex							1	
-25	613221	LAMPHOLDER, Candelabra							1	
-26	612940	SOCKET, Octal tube							1	
-27	600812	SCREW, Round head							2	
-28	600981	NUT, Hex							2	
-29	600735	WASHER, Lock							2	
-30	611587	SPACER							2	
-31	613344	RING, Socket retaining							1	
-32	611893	PLATE, Switch mounting							1	
-33	600850	SCREW, Flat head							2	
-34	600735	WASHER, Lock							2	
-35	600981	NUT, Hex							2	
-36	611878	CLAMP, Cable							1	
-37	600820	SCREW, Flat head							1	
-38	600735	WASHER, Lock							1	
-39	601190	NUT, Small hex							1	
-40	86018	PLUG, Button							1	C
-41	604519	SWITCH							1	AB
-42	No Number	NUT (Supplied with switch)							1	AB
-43	611735	WASHER, Inner cut, 15/32 in.							1	AB
-44	604148	NAMEPLATE							1	AB
-45	620052	HOUSING, Switch plate							1	ABC
-46	620985	HOUSING, Switch plate							1	D

Figure 5. Switch Plate Assembly, Complete

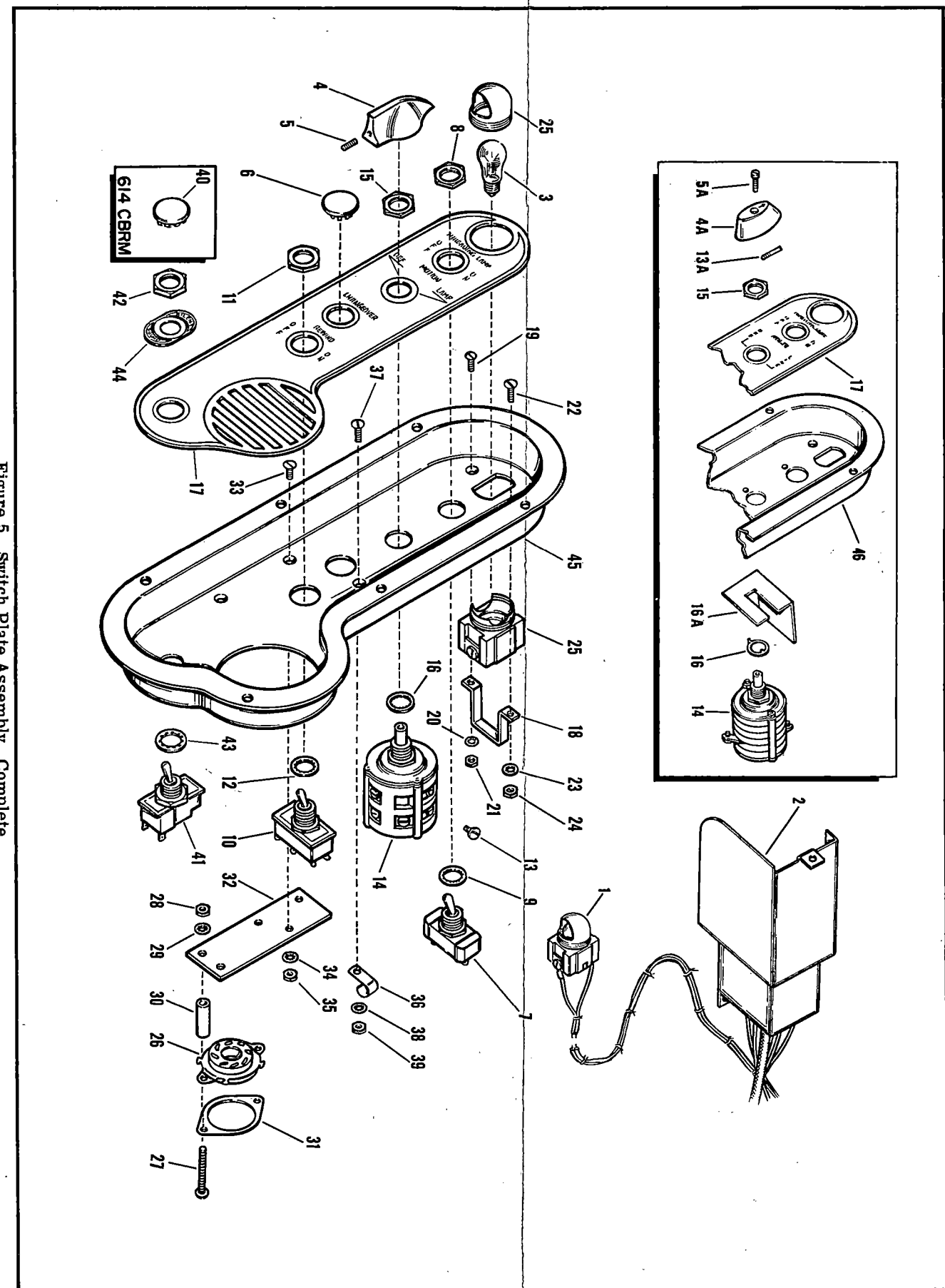


FIG. & INDEX NO.	PART NO.	DESCRIPTION	UNITS							USABLE ON CODE	
			1	2	3	4	5	6	7		
6-	067253	PLATE ASSEMBLY, Mechanism, front and rear . .								—	ABC
6-	067411	PLATE ASSEMBLY, Mechanism, front and rear . .								—	D
-1	061003	COVER ASSEMBLY, Lamphouse								1	
-2	611213	SHIELD, Heat, lamphouse								2	
-3	611209	SPACER, Heat shield								4	
-4	611790	SPEED NUT, Push-on								4	
-5	611792	BAFFLE, Light, upper								1	
-6	614396	SPEED NUT, Push-on								3	
-7	613239	COLLAR, Light baffle spacing								3	
-8	611776	BAFFLE, Light, lower								1	
-9	065360	COVER SUBASSEMBLY, Lamphouse								1	
-10	061082	HEAD ASSEMBLY, Sound (see figure 7 for detail parts)								1	A
-10	063810	HEAD ASSEMBLY, Sound (see figure 37 for detail parts)								1	B
-10	063800	HEAD ASSEMBLY, Sound (see figure 37 for detail parts)								1	C
-10	067430	HEAD ASSEMBLY, Sound (see figure 37 for detail parts)								1	D
-11	611469	SCREW, Special								7	
-12	611734	WASHER, Lock								7	
-13	611923	KNOB, Threading								1	AB
-13	620481	KNOB, Threading								1	C
-14	620905	SETSCREW								1	
-15	063115	CABLE, Ground wire								3	
-16	600772	SCREW, Round head								2	
-17	600293	WASHER, Lock								2	
-18	600868	SCREW, Fillister head								1	
-19	600748	WASHER, Lock								1	
-20	065200	MOTOR ASSEMBLY, Drive (see figure 12 for detail parts)								1	A
-20	067272	MOTOR ASSEMBLY, Drive (see figure 12 for detail parts)								1	B
-20	030012	MOTOR ASSEMBLY, Drive (see figure 39 for detail parts)								1	C
-20	067406	MOTOR ASSEMBLY, Drive (see figure 39 for detail parts)								1	D
-21	600837	SCREW, Round head								4	
-22	600748	WASHER, Lock								4	
-23	620710	WASHER, Plain								4	
-24	620376	CHAIN, Mechanism drive								1	AB
-24	613495	CHAIN, Mechanism drive								1	C
-24	611397	CHAIN, Mechanism drive								1	D
-25	061031	BLOWER MOTOR AND COVER ASSEMBLY (See figure 14 for detail parts)								1	
-26	620000	SCREW, Round head								7	
-27	600735	WASHER, Lock								7	
-28	067251	PLATE ASSEMBLY, Rear mechanism (see figure 15 for detail parts)								1	ABC
-28	067431	PLATE ASSEMBLY, Rear mechanism (see figure 15 for detail parts)								1	D
-29	600791	SCREW, Round head								3	
-30	600748	WASHER, Lock								3	
-31	067252	PLATE ASSEMBLY, Front mechanism (see figures 16, 17, and 18 for detail parts)								1	ABC
-31	067410	PLATE ASSEMBLY, Front mechanism (see figures 16, 17, and 18 for detail parts)								1	D

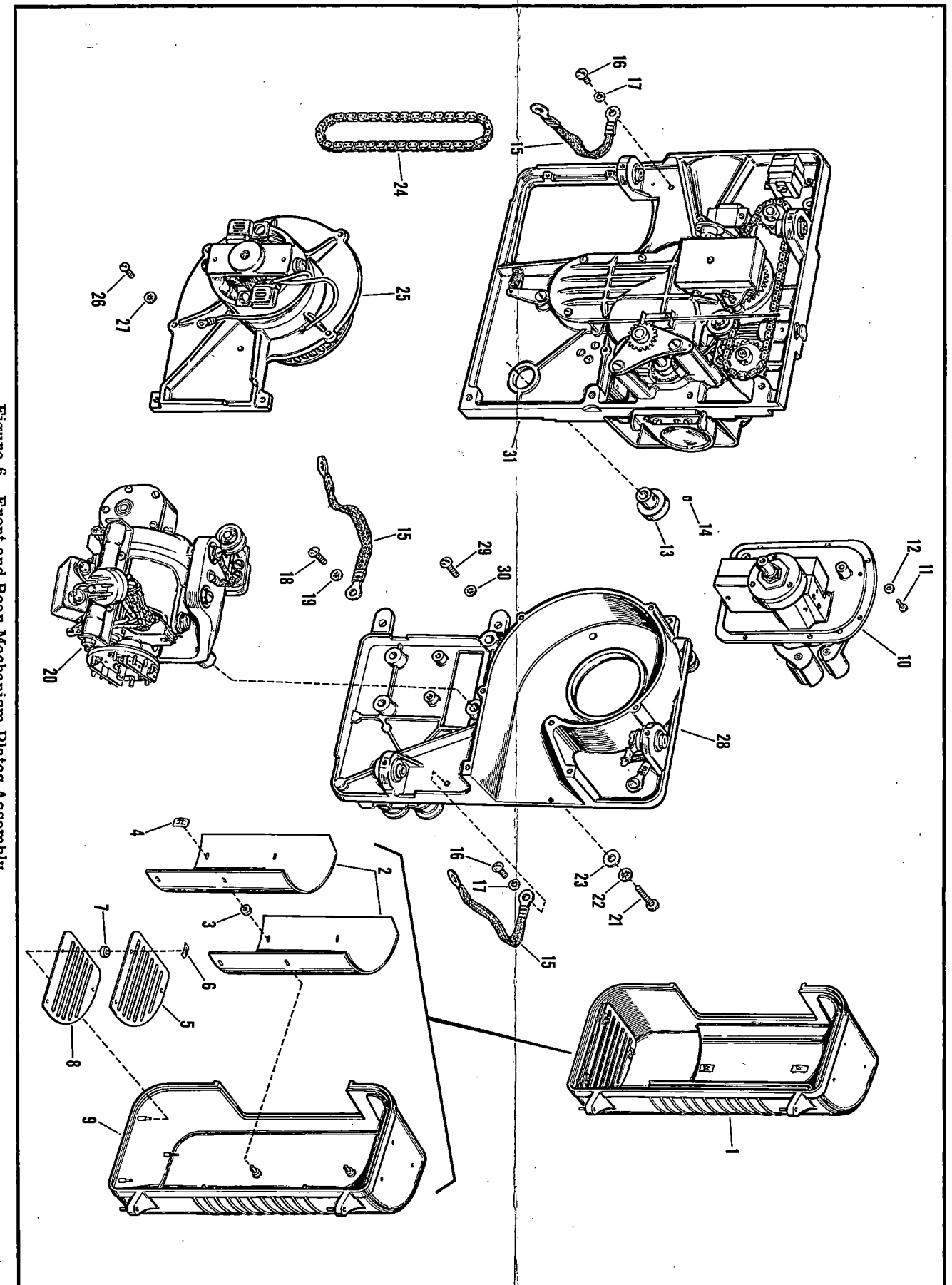


FIG. & INDEX NO.	PART NO.	DESCRIPTION	UNITS							USABLE ON CODE	
			1	2	3	4	5	6	7		
7-	061082	SOUND HEAD ASSEMBLY								1	A
7-	067430	SOUND HEAD ASSEMBLY								1	D
7-1	061094	ROLLER ASSEMBLY, Upper jockey (see figure 8 for detail parts)								1	AD
-2	061095	ROLLER ASSEMBLY, Lower jockey (see figure 9 for detail parts)								1	AD
-3	611853	RING, Retaining								2	AD
-4	611855	WASHER, Spacing								2	AD
-5	611852	STUD, Jockey roller pivot								2	AD
-6	600797	WASHER, Lock								2	AD
-7	061044	ROLLER ASSEMBLY, Impedance (see figure 10 for detail parts)								1	AD
-8	605222	SCREW, Special binder head								1	AD
-9	061155	BEARING HOUSING ASSEMBLY, Stabilizer (see figure 11 for detail parts)								1	A
-9A	067429	BEARING HOUSING ASSEMBLY, Stabilizer (see figure 11 for detail parts)								1	D
-10	620904	SETSCREW								2	AD
-11	620903	SETSCREW, Allen head cup point, 10-32 by 3/16 in.								1	AD
-12	061188	COVER ASSEMBLY, Exciter lamp								1	AD
-13	611542	SCREW, Exciter lamp cover (p/o 061188).								1	AD
-14	602336	JEWEL, Ruby #23 by 1/2								1	AD
-15	611857	COVER								1	AD
-16	613261	LAMP, Double contact prefocus exciter								1	AD
-17	613392	NUT, Exciter lamp socket								1	AD
-18	613391	CAM, Pin release								1	AD
-19	063176	CONTACT ASSEMBLY, Socket								1	A
-19A	067432	CABLE ASSEMBLY, Exciter lamp								1	D
-20	600799	SCREW, Round head								1	AD
-21	600797	WASHER, Lock								1	AD
-22	063175	SOCKET SUBASSEMBLY, Exciter lamp								1	AD
-23	600919	SCREW, Flat head								3	AD
-24	611939	LENS, Scanning								1	AD
-25	600933	SCREW, Fillister head								1	AD
-26	061996	COVER ASSEMBLY, P.C. Cell								1	AD
-26A	611933	NOB, P.C. Cell cover								1	AD
-26B	600797	WASHER, Lock								1	AD
-26C	611934	STUD, P.C. Cell cover								1	AD
-26D	611880	COVER, P.C. Cell								1	AD
-27	611878	CLAMP, Cable								1	AD
-28	600808	SCREW, Round head								1	AD
-29	600735	WASHER, Lock								1	AD
-30	611881	BLOCK, P.C. Cell terminal								1	AD
-31	600809	SCREW, Round head								1	AD
-32	600735	WASHER, Lock								2	AD
-33	611854	COLLAR, Spacing								1	AD
-34	600810	SCREW, Round head								1	AD
-35	611879	NUT, Spacer								1	AD
-36	063190	CABLE ASSEMBLY, P.C. Cell								1	A
-36	067347	CABLE ASSEMBLY, P.C. Cell								1	D
-36A	611827	TERMINAL, Lug								2	D
-36B	611739	CONNECTOR, Plug								1	D
-37	061194	P.C. CELL ASSEMBLY								1	A
-37	067437	P.C. CELL ASSEMBLY								1	D
-38	600833	SCREW, Round head machine, 4-36 by 0.187 in.								2	AD
-39	611764	WASHER, Lock								2	AD
-40	061199	PLATE, P.C. Cell mounting								1	AD
-41	600833	SCREW, Round head machine, 4-36 by 3/16 in.								2	AD
-42	611764	WASHER, Lock								2	AD
-43	611850	PLATE, Sound head mounting								1	AD

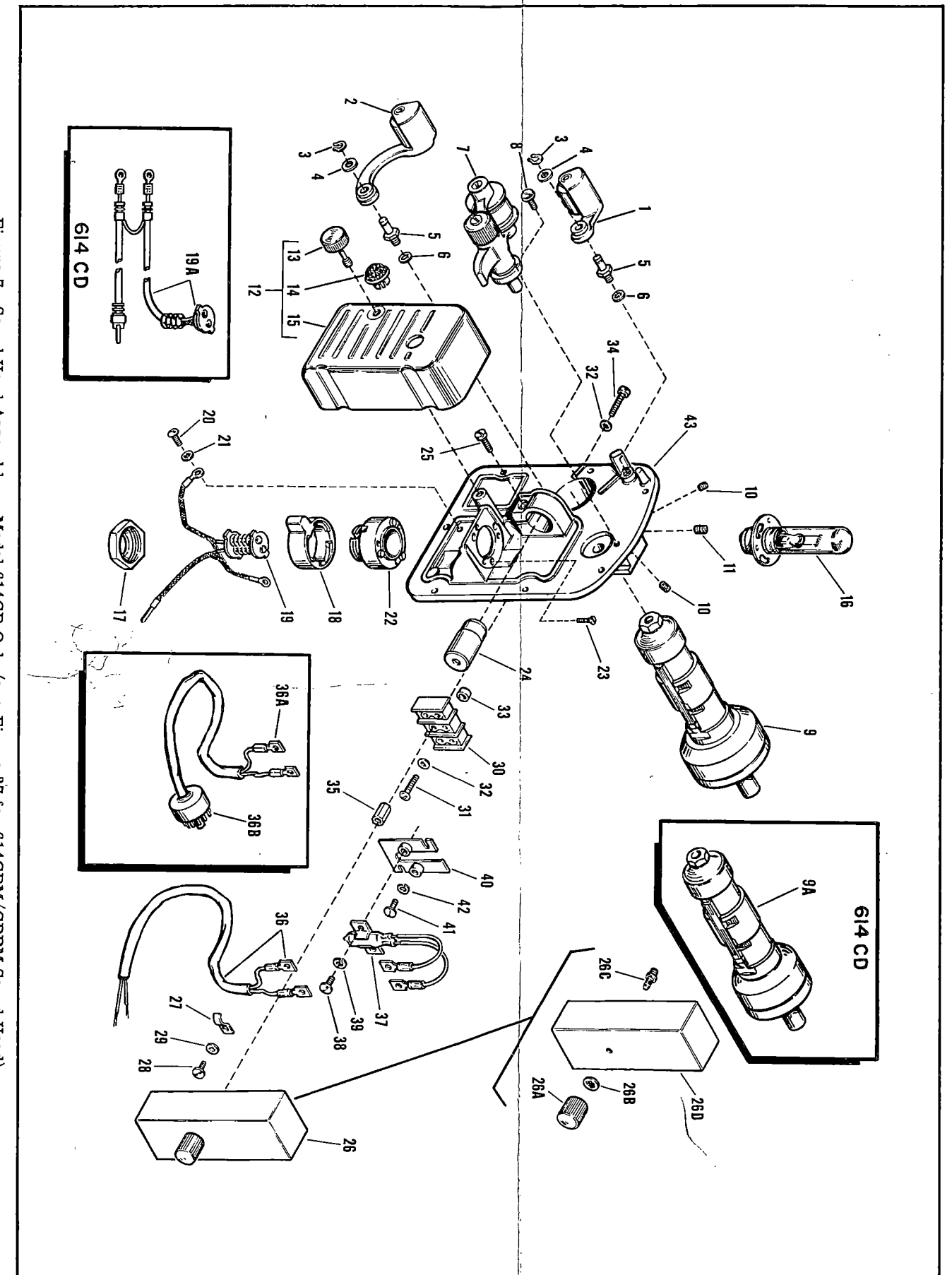


Figure 7. Sound Head Assembly — Model 614CB Only (see Figure 37 for 614CBM/CBRM Sound Head)

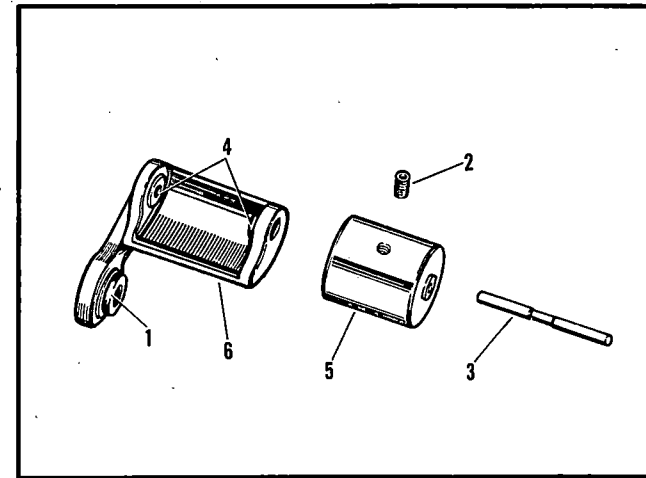


Figure 8. Upper Jockey Roller Assembly

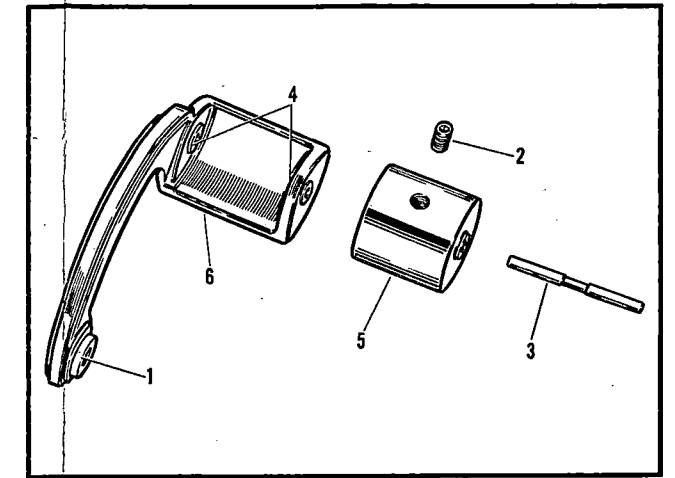


Figure 9. Lower Jockey Roller Assembly

FIG. & INDEX NO.	PART NO.	DESCRIPTION							UNITS PER ASSY	USABLE ON CODE
		1	2	3	4	5	6	7		
8-	061094	ROLLER ASSEMBLY, Upper jockey							-	
-1	611813	. BEARING, Sleeve							1	
-2	620971	. SETSCREW							1	
-3	611808	. SHAFT, Jockey roller							1	
-4	611812	. BEARING, Sleeve							2	
-5	611809	. ROLLER, Upper jockey							1	
-6	611811	. HOUSING, Upper jockey							1	
9-	061095	ROLLER ASSEMBLY, Lower jockey							-	
-1	611813	. BEARING, Sleeve							1	
-2	620971	. SETSCREW							1	
-3	611808	. SHAFT, Jockey roller							1	
-4	611812	. BEARING, Sleeve							2	
-5	611810	. ROLLER, Lower jockey							1	
-6	611814	. HOUSING, Lower jockey							1	

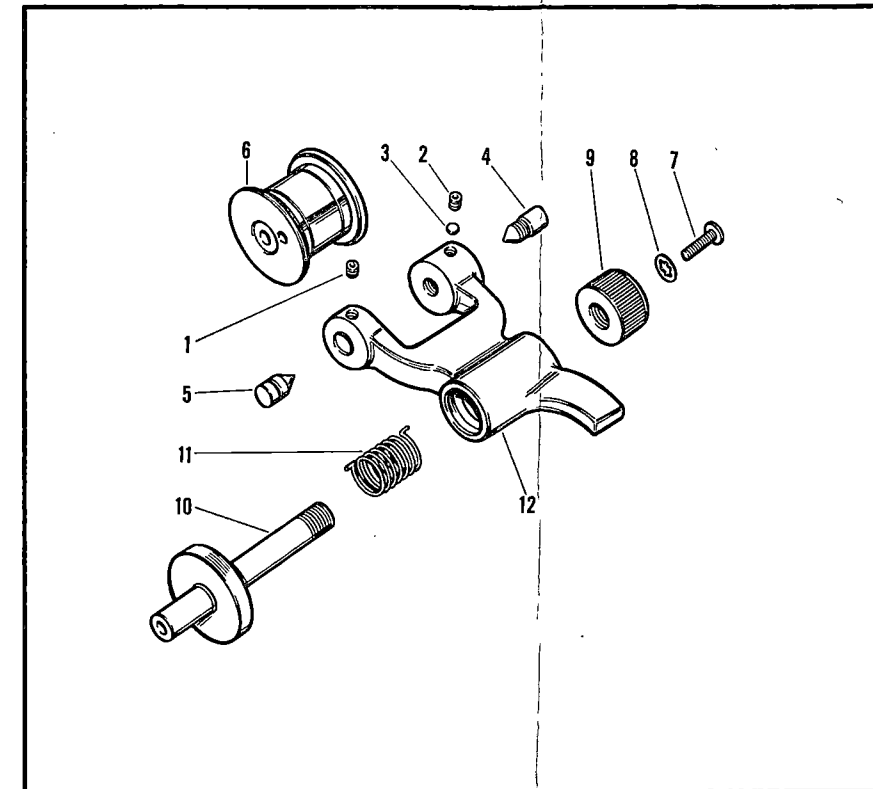


Figure 10. Impedance Roller Assembly

FIG. & INDEX NO.	PART NO.	DESCRIPTION							UNITS PER ASSY	USABLE ON CODE
		1	2	3	4	5	6	7		
10-	061044								—	AD
10-	065180								—	BC
-1	620900								1	
-2	620899								1	
-3	611530								1	
-4	611538								1	
-5	611531								1	
-6	061128								1	AD
-6	065321								1	BC
-7	611535								1	
-8	611734								1	
-9	611534								1	
-10	611144								1	
-11	611537								1	
-12	611523								1	

FIG. & INDEX NO.	PART NO.	DESCRIPTION	UNITS PER ASSY	USABLE ON CODE
		1 2 3 4 5 6 7		
11-	061155	BEARING HOUSING ASSEMBLY, Stabilizer	—	A
11-	063811	BEARING HOUSING ASSEMBLY, Stabilizer	—	B
11-	063801	BEARING HOUSING ASSEMBLY, Stabilizer	—	C
11-1	611529	. NUT, Sound drum retaining	1	ABC
-2	611519	. DRUM, Film scanning	1	A
-2	620411	. DRUM, Film scanning	1	BC
-3	611509	. BEARING, Stabilizer shaft front	1	ABC
-4	611226	. WASHER, Thrust, stabilizer bearing	1	ABC
-5	611540	. BRACKET, Light pipe	2	ABC
-6	600920	. SCREW, Round head	4	ABC
-7	611941	. PRISM, Light pipe	1	ABC
-8	611942	. MOUNT, Light pipe prism	1	ABC
-9	611822	. NUT, Self locking	1	ABC
-10	611528	. NUT, Stabilizer bearing lock	1	ABC
-11	611527	. PLATE, Stabilizer bearing lock	1	ABC
-12	600942	. SCREW, Fillister head	3	ABC
-13	611508	. BEARING, Stabilizer shaft rear	1	ABC
-14	611525	. SHAFT, Stabilizer	1	ABC
-15	611524	. HOUSING, Stabilizer bearing	1	A
-15	*No Number	. HOUSING AND QUILL ASSEMBLY	1	B
-15	*No Number	. HOUSING AND QUILL ASSEMBLY	1	C

*Not procurable separately. If necessary to replace quills or housing of 614CBM and CBRM projectors, order complete assembly (part number 063811 or 063801). Parts illustrated in figure 11 are available for all projectors.

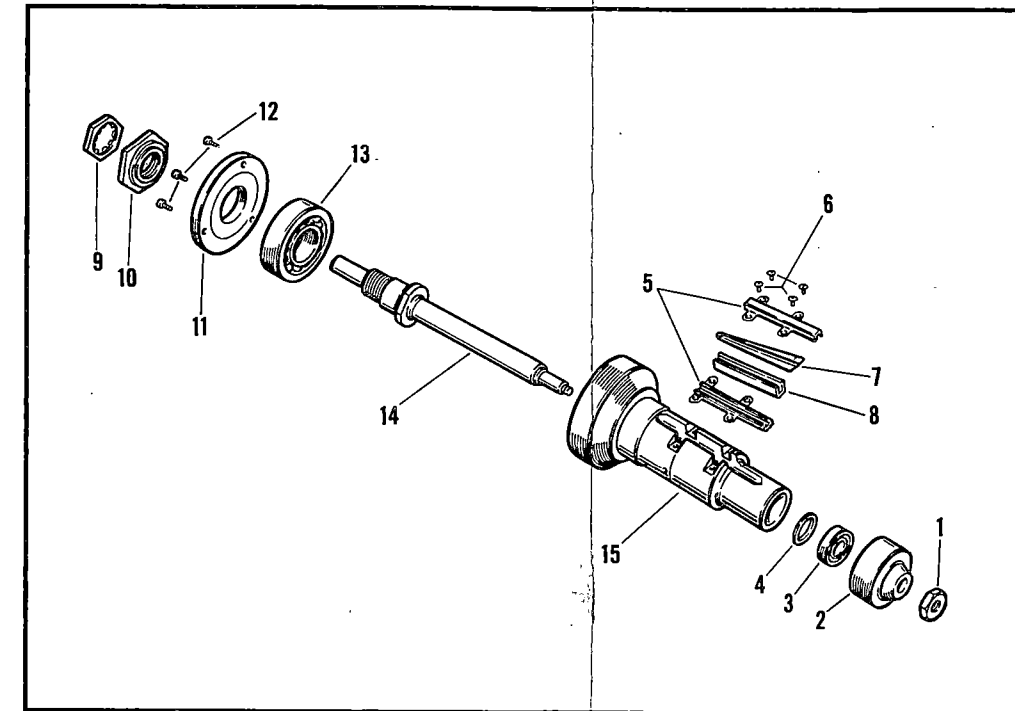


Figure 11. Stabilizer Bearing Housing Assembly (614CB, 614CBM, 614CBRM)

11A-	067429	BEARING HOUSING ASSEMBLY, Stabilizer	—	D
11A-1	611529	. NUT, Sound drum retaining	1	D
-2	611519	. DRUM, Film scanning	1	D
-3	620961	. SPACER, Sound drum	1	D
-4	620991	. WASHER, Spring tension	1	D
-5	621025	. BEARING, Ball	1	D
-6	611540	. BRACKET, Light pipe	2	D
-7	600920	. SCREW	4	D
-8	611941	. PRISM, Light pipe	1	D
-9	611942	. MOUNT, Light pipe prism	1	D
-10	620963	. RING, Retaining	1	D
-11	620966	. COVER, Stabilizer housing	1	D
-12	600942	. SCREW	3	D
-13	620964	. RING, Retaining	1	D
-14	620962	. BEARING, Ball	1	D
-15	620965	. SPRING, Stabilizer	1	D
-16	621076	. WASHER, Steel	1	D
-17	620958	. SHAFT, Stabilizer	1	D
-18	620959	. HOUSING, Stabilizer bearing	1	D

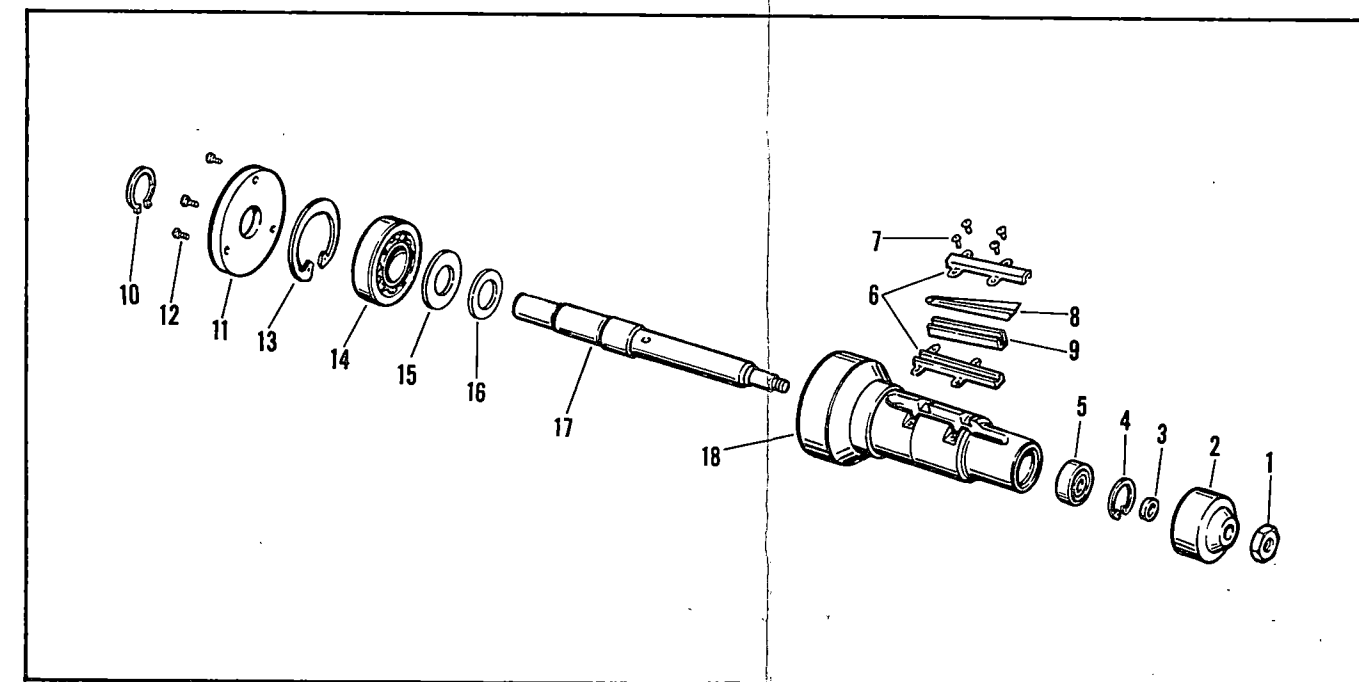


Figure 11A. Stabilizer Bearing Housing Assembly (614CD)

FIG. & INDEX NO.	PART NO.	DESCRIPTION	UNITS PER ASSY	USABLE ON CODE
		1 2 3 4 5 6 7		
12-	065200	MOTOR ASSEMBLY, Drive	—	A
12-	067272	MOTOR ASSEMBLY, Drive	—	B
12-	067406	MOTOR ASSEMBLY, Drive	—	D
12-1	611770	RESISTOR, Fixed 150 ohms 50 watts	1	A
-1	620777	RESISTOR, Wire wound, 150 ohms 50 watts	1	BD
-2	600893	SCREW, Round head	1	A
-2	600768	SCREW, Round head	2	BD
-3	610803	NUT, Elastic stop	1	A
-4	610804	WASHER, Resistor centering	2	A
-4	611734	WASHER, Lock	2	BD
-5	611365	BRACKET, Resistor mounting	1	A
-5A	19481	WASHER, Lock (not shown)	2	B
-5B	3681	SCREW, Flat head (not shown)	2	B
-5C	620778	PLATE, Resistor mounting (not shown)	1	B
-6	600743	SCREW, Binding head	2	A
-7	600793	WASHER, Lock	2	A
-8	615506	CAPACITOR, Bathtub oil, 0.5 uf 600 wvdc	1	
-9	600808	SCREW, Round head	2	
-10	600735	WASHER, Lock	2	
-10A	609051	WASHER, Flat	1	D
-11	061091	GEAR HOUSING ASSEMBLY, Motor (see figure 13 for detail parts)	1	
-12	605220	SCREW, Binding head	1	
-13	600797	WASHER, Lock	1	
-14	600881	SCREW, Fillister head	2	
-15	611932	WASHER, Lock	2	
-16	061986	BRACKET ASSEMBLY, Motor mounting	1	AB
-16	067436	BRACKET ASSEMBLY, Motor mounting	1	D
-17	600837	SCREW, Round head	2	
-18	600293	WASHER, Lock	4	
-19	613235	SCREW, Round head	2	
-20	061036	IDLER ASSEMBLY (Includes 21C, 21D, 21E)	1	
-21	612435	SCREW, Binding head	2	
-21A	600797	WASHER, Lock	2	
-21B	609051	WASHER, Flat	2	
-21C	614240	RING, Retaining	1	
-21D	611107	ROLLER, Idler	1	
-21E	061122	ARM ASSEMBLY, Roller	1	
-21F	611801	BUSHING, Vibration mount	4	
-22	611795	BRACKET, Motor mounting	1	AB
-22	620987	BRACKET, Motor mounting	1	D
-23	061985	GROUND STRAP	1	
-24	600772	SCREW, Round head	1	
-25	600748	WASHER, Lock	1	
-26	611597	CAP, Motor brush holder	2	
-27	611576	BRUSH AND SPRING, Motor	2	
-28	620902	SETSCREW	2	
-29	611575	HOLDER, Motor brush	2	
-30	611925	CAPACITOR, Fixed, 10,000 uuf, 250 volt	2	AB
-30	611925	CAPACITOR, Fixed, 10,000 uuf, 250 volt	1	D
-30A	621030	CAPACITOR, Fixed, 0.005 uf	2	D
-31	600772	SCREW, Round head	2	
-32	600748	WASHER, Lock	2	
-33	611580	GOVERNOR, Mechanism drive motor	1	AB
-33	611924	GOVERNOR, Drive motor	1	D
-34	No Number	SETSCREW, Hex socket 8-32 by 1/8 (supplied with governor)	2	
-35	611574	BRUSH AND SPRING, Governor	3	
-36	620901	SETSCREW	3	
-37	611573	HOLDER, Brush	3	

* PARTS LIST CONTINUED ON BACK OF THIS FOLDOUT

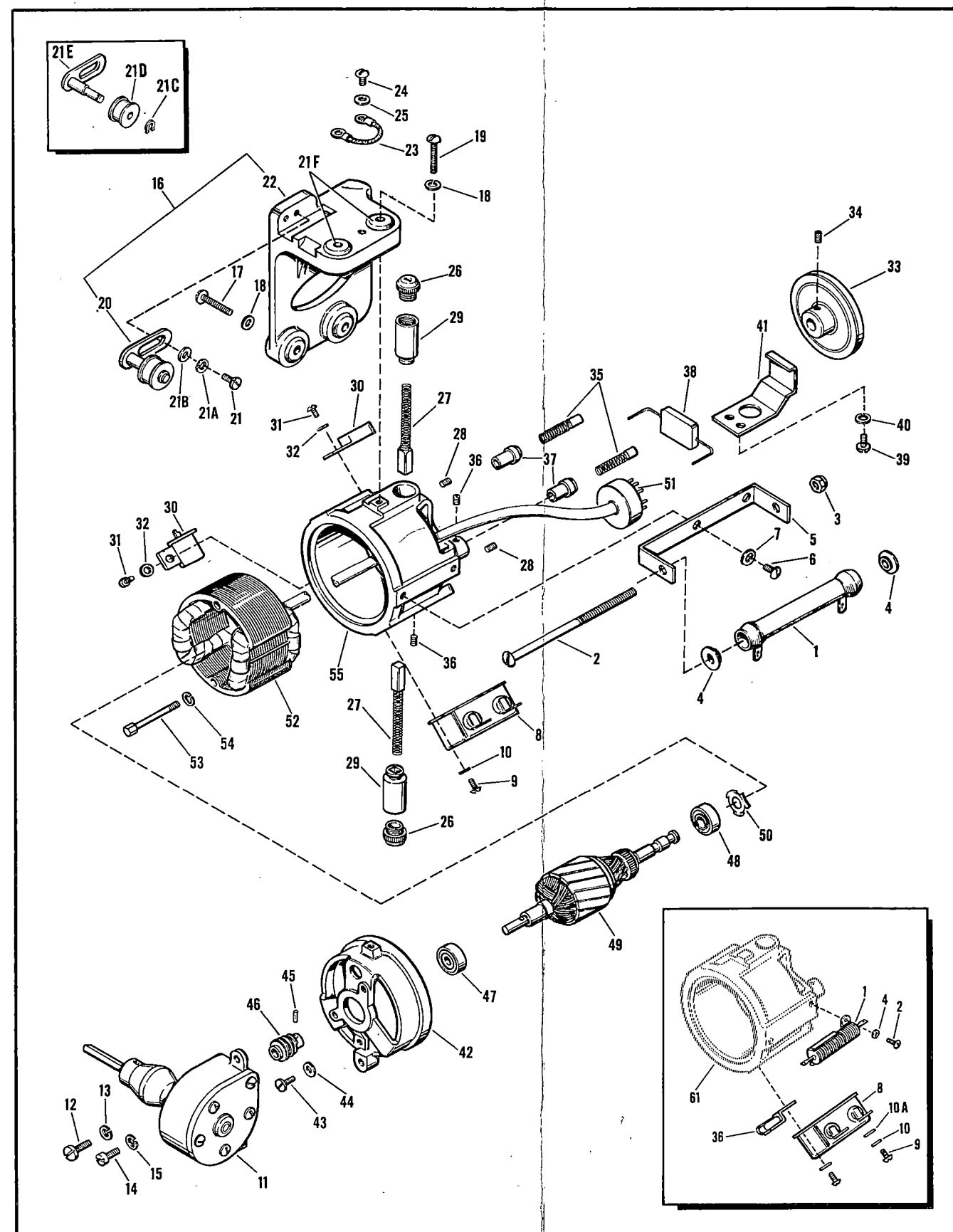


Figure 12. Universal Drive Motor Assembly
(see Figure 39 for Synchronous Drive Motor)

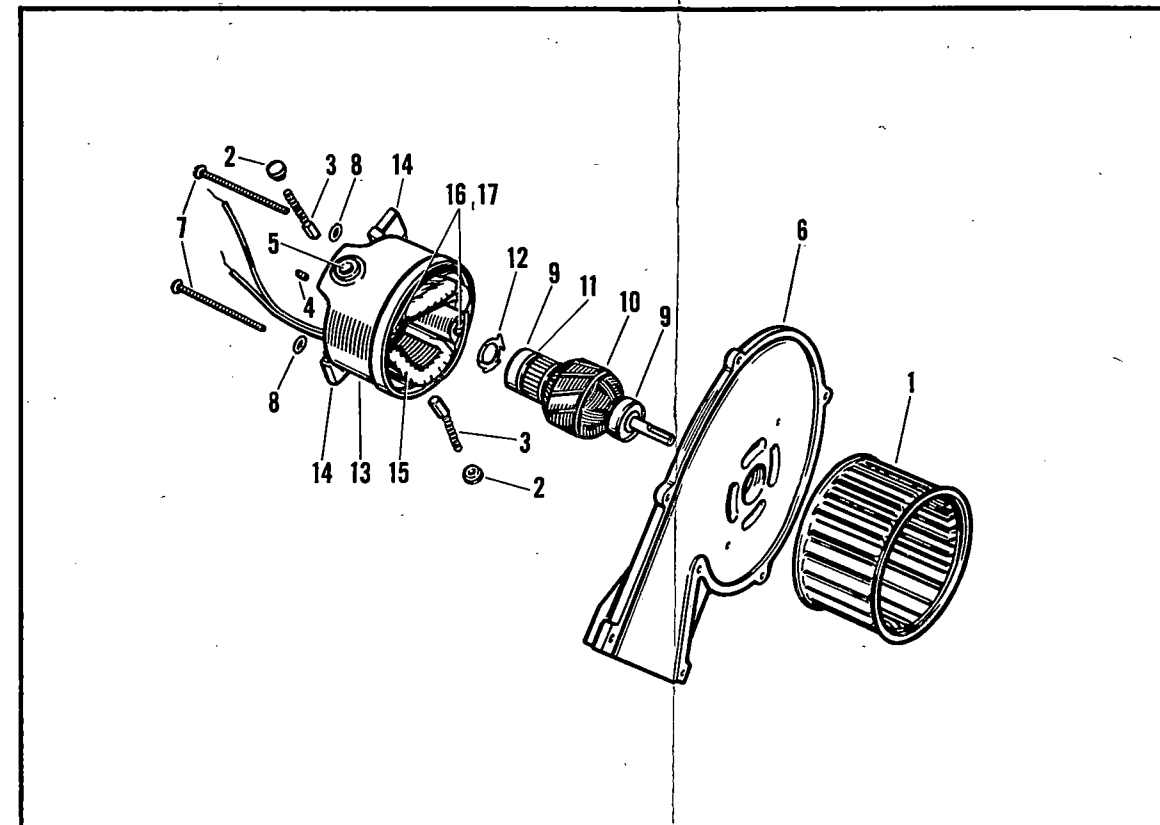


Figure 14. Blower Motor Assembly

FIG. & INDEX NO.	PART NO.	DESCRIPTION							UNITS PER ASSY	USABLE ON CODE	
		1	2	3	4	5	6	7			
14-	061031									—	
-1	611403									1	
-2	611677									2	
-3	611675									2	
-4	609124									2	
-5	611678									2	
-6	611414									1	
-7	611409									2	
-8	600797									2	
	063127									1	
-9	611970									2	
-10	611673									1	
-11	611407									1	
-12	611379									1	
-13	611412									1	
-14	611925									2	
-15	611674									1	
-16	600913									2	
-17	600797									2	

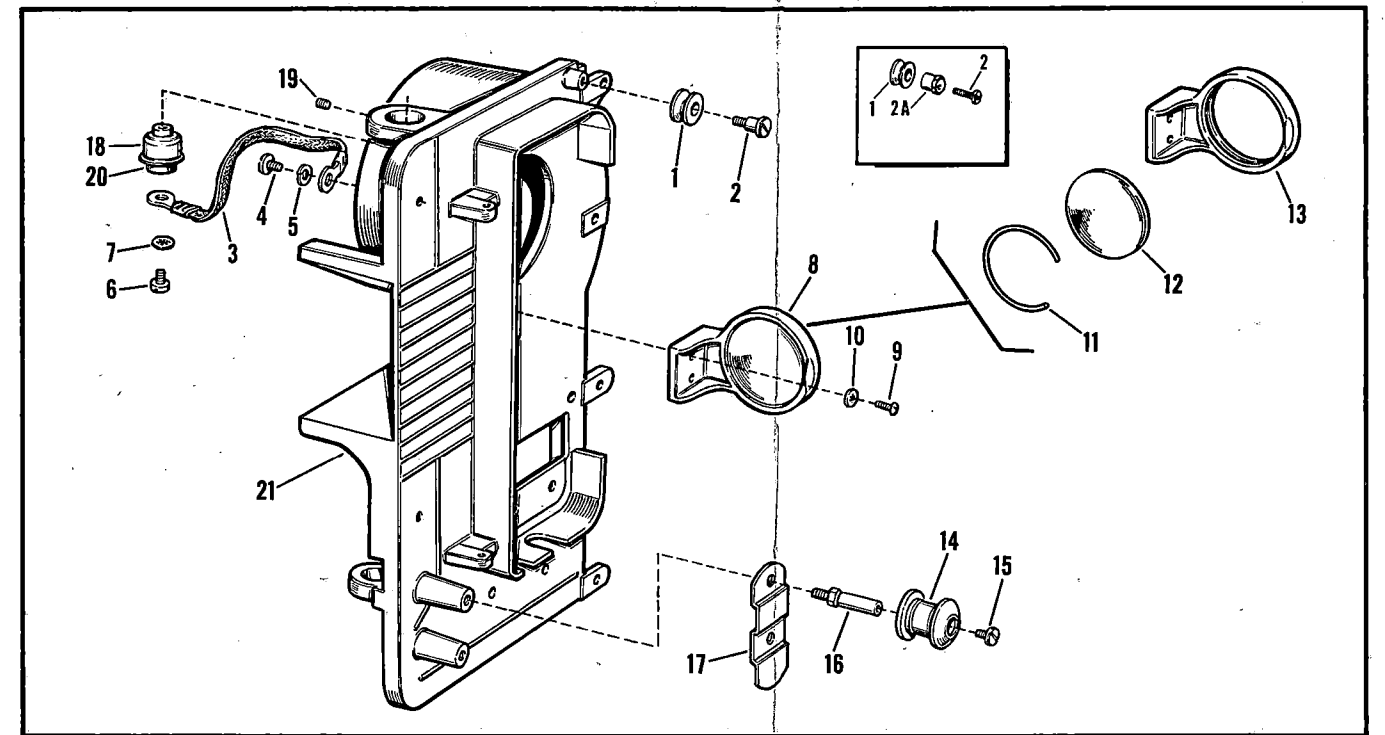


Figure 15. Rear Mechanism Plate Assembly

FIG. & INDEX NO.	PART NO.	DESCRIPTION	UNITS PER ASSY							USABLE ON CODE	
			1	2	3	4	5	6	7		
15-	067251	PLATE ASSEMBLY, Rear mechanism									ABC
15-	067431	PLATE ASSEMBLY, Rear mechanism									D
-1	611352	. PULLEY, Spring belt idler								1	ABC
-1	620979	. PULLEY, Belt adjustment								1	D
-2	611351	. STUD, Spring belt idler								1	ABC
-2	620977	. SCREW, Binding head								1	D
-2A	620978	. BEARING, Eccentric, belt adjustment								1	D
-3	063115	. CABLE ASSEMBLY								1	
-4	600772	. SCREW								1	
-5	600293	. WASHER								1	
-6	613312	. SCREW, Fillister head								1	
-7	600733	. WASHER, Lock								1	
-8	061027	. REFLECTOR ASSEMBLY, Projection lamp								1	
-9	600832	. SCREW								2	
-10	600789	. WASHER								2	
-11	611748	. RING, Reflector lock								1	
-12	611338	. REFLECTOR, Projection lamp								1	
-13	611336	. BRACKET, Reflector								1	
-14	067324	. ROLLER, Film idler								2	
-15	605222	. SCREW, Flat binder head								2	
-16	611347	. SHAFT, Film idler								2	
-17	620754	. GUARD, Film								1	ABC
-17	613467	. GUARD, Film								1	D
-18	611496	. MOUNT, Mechanism plate insulating								2	
-19	620902	. SETSCREW								2	
-20	611492	. SPACER								2	
-21	611940	. PLATE, Rear section mechanism								1	ABC
-21	620988	. PLATE, Rear section mechanism								1	D

FIG. & INDEX NO.	PART NO.	DESCRIPTION	UNITS							USABLE ON CODE
			1	2	3	4	5	6	7	
16-	067252	PLATE ASSEMBLY, Front mechanism								ABC
16-	067410	PLATE ASSEMBLY, Front mechanism								D
-1	611352	. PULLEY, Spring belt idler								ABC
-1	620979	. PULLEY, Belt adjustment								D
-2	611351	. STUD, Idler pulley								ABC
-2	620977	. SCREW, Binding head								D
-2A	620978	. BEARING, Eccentric								D
-3	613221	. LAMPHOLDER, Candelabra								
-4	600844	. SCREW, Round head								2
-5	600985	. NUT, Hex								2
-6	611734	. WASHER, Lock								2
-7	614289	. BRACKET, Pilot lamp								1
-8	613464	. PLUG, Button, hour-counter opening								1
-8A	*613430	. COUNTER, Rotary ratchet.								1
-9	*600844	. SCREW, Round head								2
-10	*611734	. WASHER, Lock								2
-11	*613432	. ARM, Counter drive								1
-12	*600990	. SCREW, Fillister head								1
-13	*063185	. MECHANISM ASSEMBLY, Counter (see figure 19)								1
-14	*600808	. SCREW, Round head								2
-15	*600735	. WASHER, Lock								2
-16	*613431	. STUD, Mounting								2
-17	611262	. SPROCKET, Take-up and rewind drive								1
-18	620905	. SETSCREW								1
-19	620326	. DRIVE CHAIN, Take-up and rewind								1
-19	611275	. DRIVE CHAIN, Take-up and rewind								1
-20	611264	. SPROCKET, Rewind								1
-21	620905	. SETSCREW								1
-22	061093	. PULLEY ASSY., Rewind (see figure 20 for details)								1
-22	067405	. PULLEY ASSY., Rewind (see figure 20 for details)								1
-23	611233	. WASHER, Fiber								2
-24	611260	. SPROCKET, Take-up chain								1
-25	620905	. SETSCREW								1
-26	061092	. PULLEY ASSY., Take-up (see figure 20 for details)								1
-26	067404	. PULLEY ASSY., Take-up (see figure 20 for details)								1
-27	611233	. WASHER, Fiber								2
-28	061016	. IDLER ASSEMBLY, Take-up drive chain								1
-29	612435	. SCREW, Binder head								2
-30	609051	. WASHER, Flat								2
-31	600797	. WASHER, Lock								2
-32	611107	. ROLLER, Drive chain idler								1
-33	614240	. RING, Retaining								1
-34	061108	. ARM SUBASSEMBLY, Drive chain idler								1
-35	611565	. BRACKET, Loop setter								1
-36	611756	. SCREW, Button head								2
-37	600735	. WASHER, Lock								2
-38	611564	. ROD, Loop setter								1
-39	063186	. LENS ASSY, Condenser (see figure 21 for details)								1
-40	063195	. PLATE ASSY, Pressure (see figure 22 for details)								1
-41	063196	. PLATE ASSY, Aperture (see figure 23 for details)								1
-42	611548	. PLATE, Lens holder stop								1
-43	611469	. SCREW, Special head								2
-44	611734	. WASHER, Lock								2
-45	061026	. HOLDER ASSY, Lens (see figure 24 for details)								1
-46	611520	. BUTTON, Lens holder friction								1
-47	611521	. SPRING, Lens holder friction								1
-48	613449	. DISC, Release rod guide								1
-49	063188	. MOUNTING ASSY, Lens (see figure 25 for details)								1
-50	611469	. SCREW, Special head								2
-51	600768	. SCREW, Round head								1
-52	611734	. WASHER, Lock								1

*Optional equipment for 614CB, 614CBM, 614CBRM

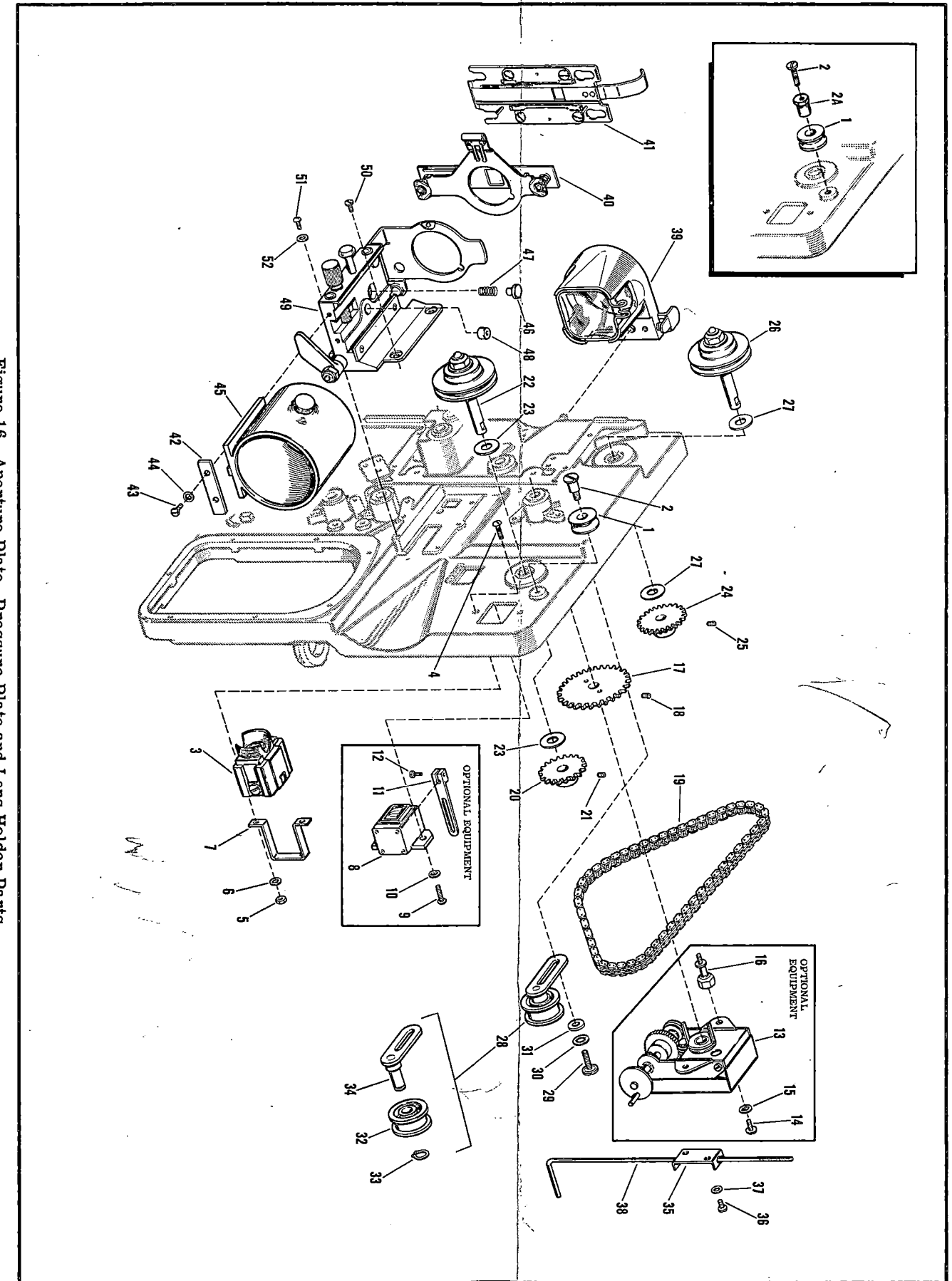


Figure 16. Aperture Plate, Pressure Plate and Lens Holder Parts

FIG. & INDEX NO.	PART NO.	DESCRIPTION	UNITS PER ASSY							USABLE ON CODE
			1	2	3	4	5	6	7	
17-1	611455	COVER, Mechanism gear							1	
-2	620000	SCREW, Round head							4	
-3	600810	SCREW, Round head							2	
-4	600735	WASHER, Lock							6	
-5	611823	GASKET, Mechanism gear cover							1	
-6	061002	GEAR ASSEMBLY, Double idler							1	
-7	611767	RING, Retaining							1	
-8	611768	SPACER, Idler gear stud							1	
-9	611203	STUD, Double idler gear							1	
-9	067403	STUD ASSEMBLY, Double idler gear							1	
-9A	620940	WICK, Gear stud oiler							1	
-10	061001	GEAR ASSEMBLY, Single idler							1	
-11	614240	RING, Retaining							1	
-12	611202	STUD, Single idler gear							1	
-13	620905	SLEEVE, Feed sprocket shaft							1	
-14	611247	SPROCKET, 16-mm film							3	
-15	609124	SETSCREW							3	
-16	610775	WASHER, Fiber							3	
-17	061011	GEAR ASSEMBLY, Feed sprocket							1	
-18	061008	GEAR ASSEMBLY, Sound sprocket							1	
-19	061009	GEAR ASSEMBLY, Take-up sprocket							1	
-20	611930	STOP, Film							3	
-21	611310	STRIPPER, Film							3	
-22	600942	SCREW, Fillister head							3	
-23	610963	WASHER, Lock							3	
-24	061997	SHOE ASSEMBLY, Film							3	
-25	611469	SCREW, Special head							6	
-26	611764	WASHER, Lock							6	
-27	611929	SHOE, Film							1	
-28	611927	SCREW, Pivot							2	
-29	611928	ROD, Film shoe locking							1	
-30	611931	SPRING, Compression							1	
-31	611926	BRACKET, Film shoe pivot							1	
-32	611806	STUD, Jockey roller stop							2	
-33	600735	WASHER, Lock							2	
-34	611345	SPRING, Loopsetter tension							1	
-35	620899	STUD, Loopsetter tension spring							1	
-36	061164	ARM SUBASSEMBLY, Loopsetter rear							1	
-37	602416	SETSCREW							1	
-38	061028	LOOPSETTER ASSEMBLY							1	
-38A	611339	NOB, Loopsetter knurled							1	
-38B	611340	ROLLER, Loopsetter							1	
-38C	061113	LOOPSETTER SUBASSEMBLY							1	
-39	061993	MECHANISM ASSEMBLY, Film slack adjusting							1	
-40	600768	SCREW, Round head							2	
-41	620899	WASHER, Lock							2	
-42	611945	COLLAR, Film slack retaining							1	
-43	602416	SETSCREW							1	
-44	611948	SCREW, Truss head							1	
-45	611949	COLLAR, Film slack adjusting							1	
-46	063123	PIN, Film slack stop (includes item 51)							1	
-47	611946	SPRING, Film slack stop pin							1	
-48	611944	ROD, Film slack adjusting							1	
-49	611714	SPRING, Compression							1	
-50	611943	HOUSING, Adjusting mechanism							1	
-51	611717	PIN, Driv-lok							1	
-52	611375	SPRING, Floating idler							1	
-53	611374	BRACKET, Floating idler spring							1	
-54	611469	SCREW, Special head							1	
-55	611734	WASHER, Lock							1	
-56	611376	LEVER, Floating idler tension							1	
-57	605222	SCREW, Special binder head							1	

ABC
D
D

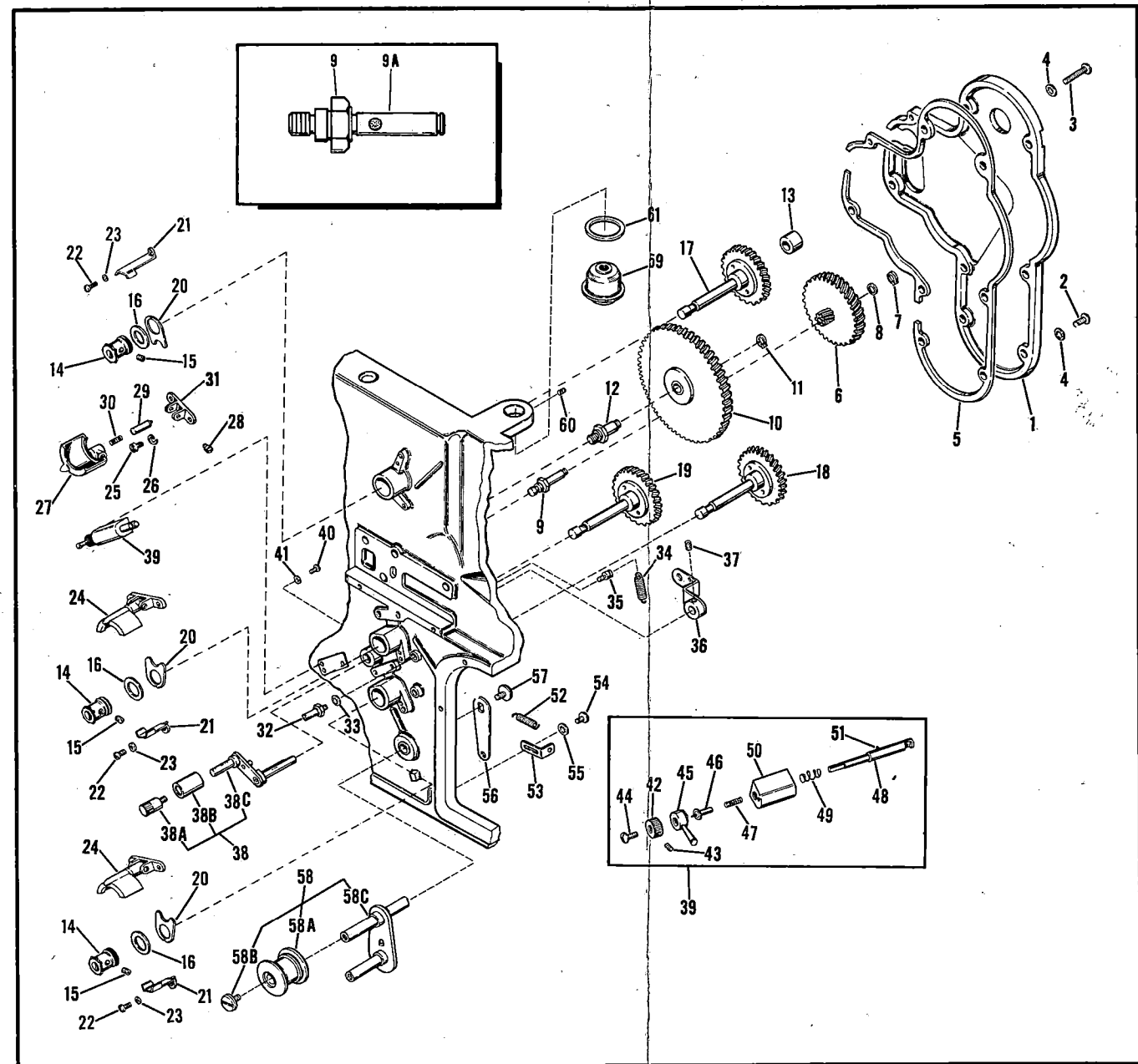


Figure 17. Film Sprockets, Film Shoes and Gears

FIG. & INDEX NO.	PART NO.	DESCRIPTION	UNITS PER ASSY							USABLE ON CODE	
			1	2	3	4	5	6	7		
17-58	061034	IDLER ASSEMBLY, Floating								1	
-58A	067342	ROLLER, Film idler								2	
-58B	605222	SCREW, Special binder head								2	
-58C	061118	ARM SUBASSEMBLY, Floating idler								1	
-59	611496	MOUNTING, Insulating								2	
-60	620902	SETSCREW								2	
-61	611492	SPACER, Mechanism plate mounting								2	

FIG. & INDEX NO.	PART NO.	DESCRIPTION							UNITS PER ASSY	USABLE ON CODE
		1	2	3	4	5	6	7		
18-1	611867	.	KNOB, Framer						1	
-2	620902	.	SETSCREW						2	
-3	067223	.	COVER ASSEMBLY, Shutter (see figure 26 for detail parts)						1	ABC
-3	061083	.	COVER ASSEMBLY, Shutter (see figure 26 for detail parts)						1	D
-4	611469	.	SCREW, Special head						4	
-5	611734	.	WASHER, Inner cut lock, No. 4						4	
-6	061114	.	COVER ASSEMBLY, Shuttle						1	ABC
-6	067402	.	COVER ASSEMBLY, Shuttle						1	D
-7	611557	.	SCREW						3	
-7A	613497	.	SCREW						1	
-8	613205	.	WASHER						4	
-9	611314	.	SPRING, Shuttle						1	
-10	611975	.	NUT, Special						1	
-11	611973	.	COUNTERWEIGHT, Front cam						1	
-12	611974	.	DISC, Front cam lubricating						1	
-13	061193	.	KIT ASSEMBLY, Shuttle, cams and pivot						1	
-14	611453	.	NUT, Elastic stop, 5-40						1	
-15	615925	.	NUT, Cam lock						1	
-16	611285	.	WASHER, Rear cam retaining						1	
-17	†611283	.	CAM, Rear, horizontal motion						1	
-18	†611783	.	CAM, Front, vertical motion						1	
-19	†611779	.	WASHER, Shuttle pivot bushing						1	
-20	†611775	.	SPACER, Shuttle pivot, outer						1	
-21	†611774	.	BUSHING, Shuttle pivot						1	
-22	†611773	.	SPACER, Shuttle pivot, inner						1	
-23	†063260	.	SHUTTLE ASSEMBLY						1	
-24	611264	.	SPROCKET, Rewind						1	
-25	620905	.	SETSCREW						1	
-26	061119	.	BRACKET SUBASSEMBLY, Drive shaft						1	
-27	600791	.	SCREW, Round head						2	
-28	600748	.	WASHER, Lock						2	
-29	061042	.	GEAR ASSEMBLY, Front cam						1	
-30	98757	.	SCREW, Special binder head						1	
-31	600789	.	WASHER, Lock						1	
-32	611302	.	RING, Front cam gear lock						1	
-33	611554	.	SHIM, Front cam gear, 0.002 in. thick						AR	
-33	611555	.	SHIM, Front cam gear, 0.003-in. thick						AR	
-33	611438	.	WASHER, Thrust, 0.010-in. thick						AR	
-33	611439	.	WASHER, Thrust, 0.020-in. thick						AR	
-33A	611208	.	WASHER, Thrust, 0.031-in. thick, nylon						AR	
-34	061984	.	CAMSHAFT ASSEMBLY, Front						1	
-35	611976	.	WASHER, Flat, 0.002-in. thick						AR	
-35	611977	.	WASHER, Flat, 0.003-in. thick						AR	
-35	611978	.	WASHER, Flat, 0.005-in. thick						AR	
-35	613215	.	WASHER, Flat, 0.010-in. thick						AR	
-36	061017	.	GEAR ASSEMBLY, Rear cam						1	
-37	620906	.	SETSCREW						2	
-38	061018	.	CAMSHAFT ASSEMBLY, Rear						1	
-39	061021	.	PLATE ASSEMBLY, Shuttle cover mounting						1	ABC
-39	067399	.	PLATE ASSEMBLY, Shuttle cover mounting						1	D
-39A	620933	.	GASKET, Shuttle cover						1	D
-40	600925	.	SCREW, Flat head						3	
-41	611547	.	COLLAR, Drive shaft thrust						1	
-42	620905	.	SETSCREW						2	
-43	061152	.	GEAR ASSEMBLY, Mechanism drive						1	ABC
-43	061053	.	GEAR ASSEMBLY, Mechanism drive						1	D
-44	620905	.	SETSCREW						2	
-45	611298	.	WASHER, Spacer (if req'd)						1	
-46	611406	.	SHAFT, Mechanism drive						1	

Matched parts — replace only as complete assembly.
PARTS LIST CONTINUED ON FOLLOWING FOLD-OUT PAGE

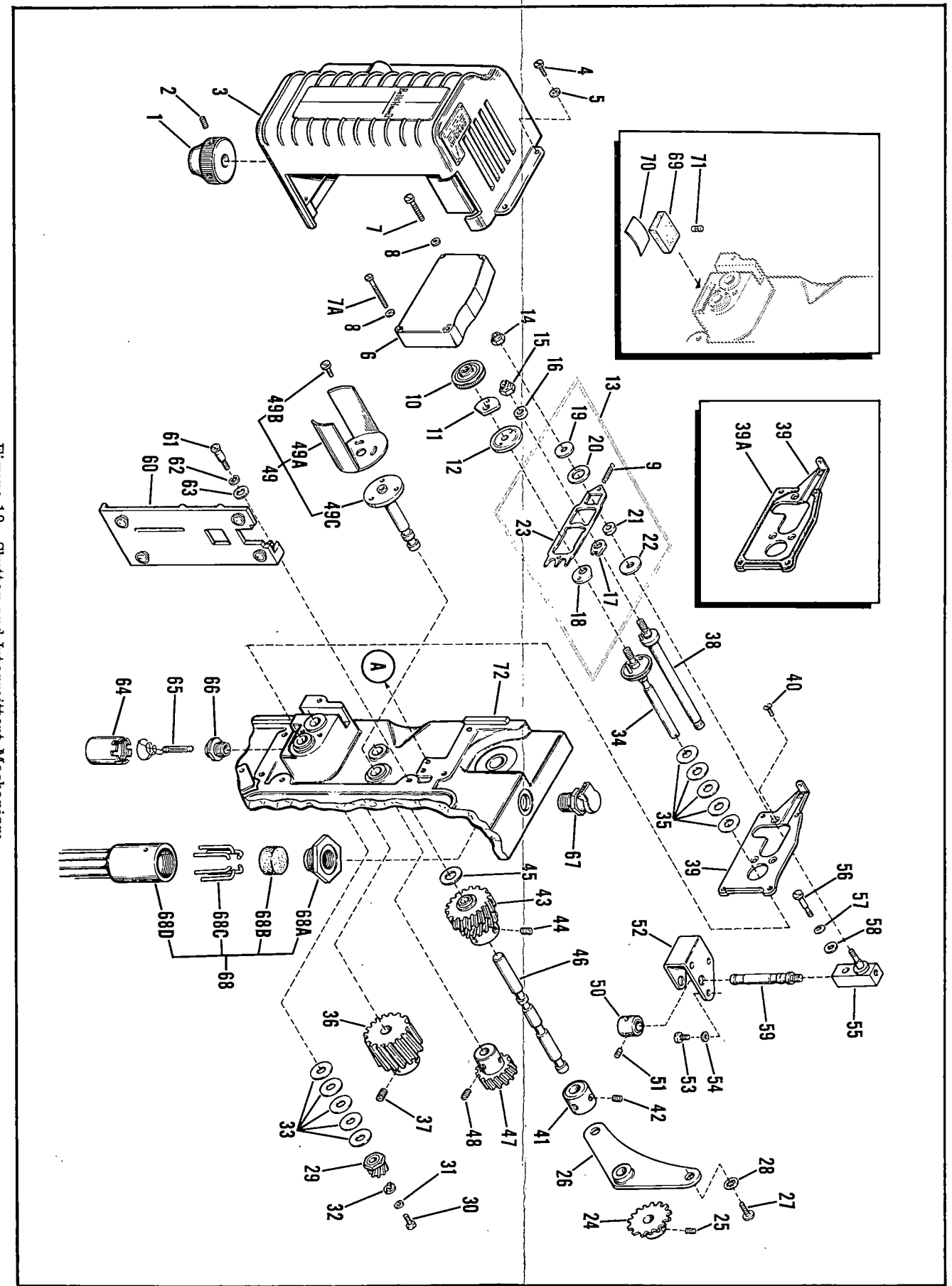


Figure 18. Shutter and Intermittent Mechanism

FIG. & INDEX NO.	PART NO.	DESCRIPTION	UNITS PER ASSY							USABLE ON CODE
			1	2	3	4	5	6	7	
18-47	620771	GEAR ASSEMBLY, Shutter	1							ABC
-47	061052	GEAR ASSEMBLY, Shutter	1							D
-48	620905	SETSCREW	2							
-49	067255	SHUTTER ASSEMBLY, 78 frequency	1							ABC
-49	061059	SHUTTER ASSEMBLY, 48 frequency	1							D
-49A	611295	SHUTTER, 78 frequency	1							ABC
-49A	620032	SHUTTER, 48 frequency	1							D
-49B	611293	SCREW, Shutter	3							
-49C	611303	SHAFT, Shutter	1							
-50	611866	COLLAR, Framer shaft locking	1							
-51	620899	SETSCREW	2							
-52	611864	BRACKET, Framer shaft	1							ABC
-52	620937	BRACKET, Framer shaft	1							D
-53	600942	SCREW, Fillister head	3							
-54	610963	WASHER, Lock	3							
-55	063112	BAR ASSEMBLY, Framer pivot	1							
-56	611380	SCREW, Framer bar mounting	1							
-57	611383	WASHER, Framer bar spring	1							
-58	611251	WASHER, Framer bar friction	1							
-59	611865	SHAFT, Framer	1							
-60	061040	BRACKET ASSEMBLY, Aperture plate mounting	1							
-61	613210	SCREW, Aperture mounting bracket	2							
-62	600293	WASHER, Lock	2							
-63	620026	WASHER, Flat	2							
-64	611797	RESERVOIR, Camshaft oil	1							ABC
-65	063107	SPRING AND WICK ASSEMBLY	1							ABC
-66	611796	ADAPTER, Camshaft oil reservoir	1							ABC
-67	061159	CUP ASSEMBLY, Adapter and oil	1							ABC
-68	061038	OILING SYSTEM ASSEMBLY	1							ABC
-68A	611463	CAP, Main oil reservoir	1							ABC
-68B	611479	PAD, Oil retaining	1							ABC
-68C	611464	WIRE, Oil guide	6							ABC
-68D	061120	OILING SYSTEM SUBASSEMBLY	1							ABC
-69	620932	WICK, Shuttle oil	1							D
-70	620930	SPRING, Oilwick retaining	1							D
-71	067400	WICK ASSEMBLY, Camshaft lubricating	2							D
-72	061156	PLATE AND INSERT SUBASSEMBLY (See figure 27 for detail parts)	1							ABC
-72	067409	PLATE AND INSERT SUBASSEMBLY (See figure 27 for detail parts)	1							D

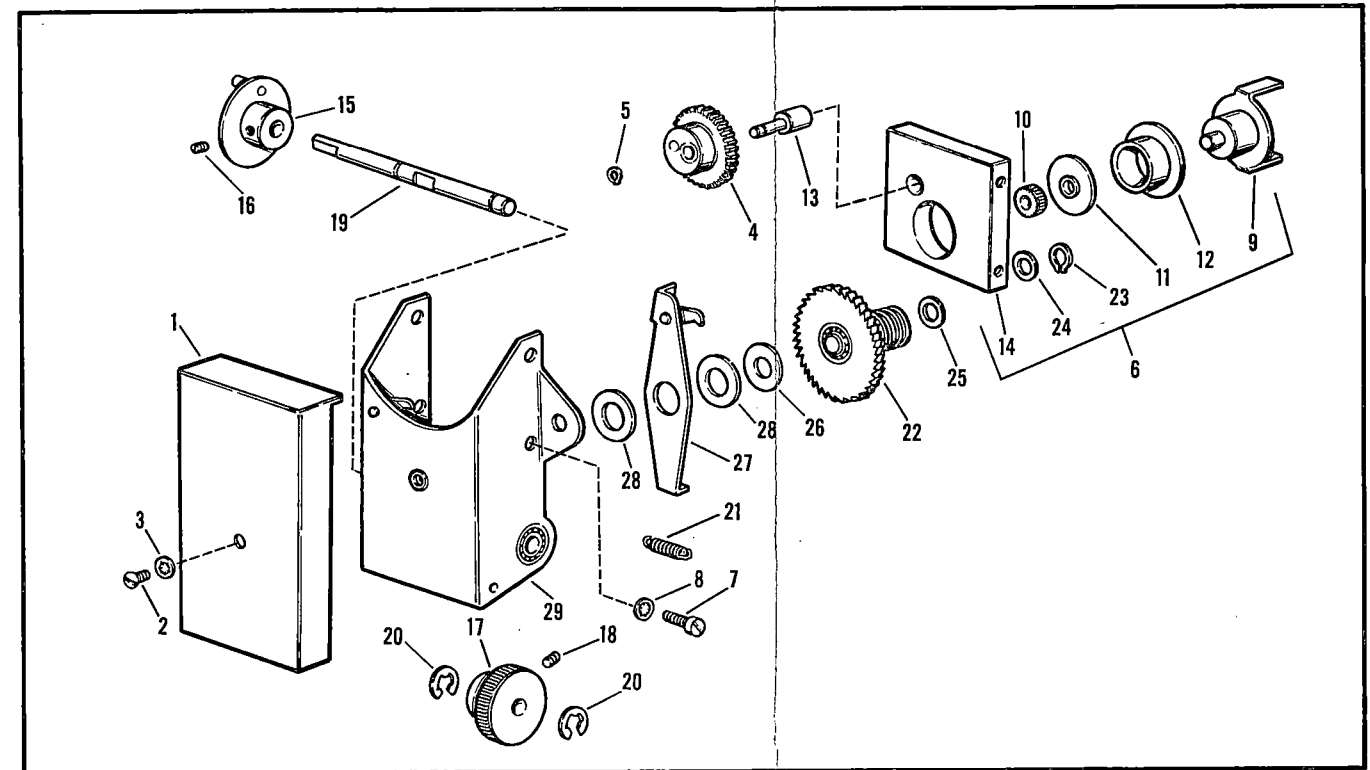


Figure 19. Counter Drive Mechanism (Optional Equipment)

FIG. & INDEX NO.	PART NO.	DESCRIPTION	UNITS PER ASSY							USABLE ON CODE	
			1	2	3	4	5	6	7		
19-	063185	MECHANISM ASSEMBLY, Counter drive	1								
-1	613429	COVER	1								
-2	600830	SCREW, Round head	1								
-3	610963	WASHER, Lock	1								
-4	063181	CAM AND GEAR ASSEMBLY	1								
-5	613428	RING, Retaining	1								
-6	063179	PLATE ASSEMBLY, Gear train	1								
-7	600683	SCREW, Fillister head	4								
-8	600789	WASHER, Lock	4								
-9	063180	HUB ASSEMBLY, Pinion	1								
-10	613408	PINION, 12 tooth	1								
-11	613407	WASHER, Pinion hub shoulder	1								
-12	613406	BEARING, Pinion hub sleeve	1								
-13	613427	STUD, Cam gear	1								
-14	613405	PLATE, Gear train mounting	1								
-15	063184	DISC ASSEMBLY, Drive	1								
-16	620899	SETSCREW	1								
-17	613424	GEAR, Ratchet worm	1								
-18	620899	SETSCREW	1								
-19	613423	SHAFT, Counter mechanism output	1								
-20	613425	RING, Retaining	2								
-21	613426	SPRING, Ratchet arm extension	1								
-22	063183	WHEEL ASSEMBLY, Ratchet	1								
-23	611767	RING, Retaining	1								
-24	611768	SPACER, Double idler gear stud	1								
-25	600954	WASHER, Fiber 0.010-in. thick	AR								
-25	600955	WASHER, Fiber 0.010-in. thick	AR								
-26	611554	SHIM, Steel	AR								
-27	063182	ARM ASSEMBLY, Ratchet	1								
-28	600883	WASHER, Flat	2								
-29	063178	HOUSING ASSEMBLY, Counter drive mechanism	1								

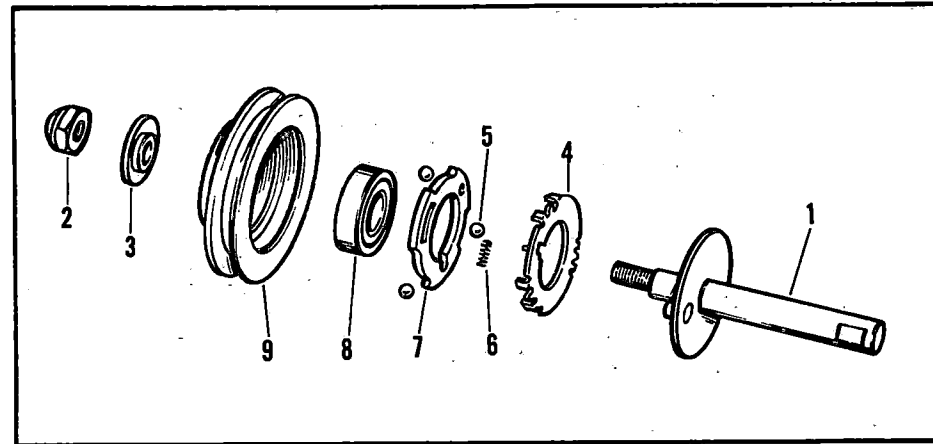


Figure 19A. Take-up and Rewind Pulleys (614CD only)

FIG. & INDEX NO.	PART NO.	DESCRIPTION	UNITS PER ASSY	USABLE ON CODE
19A-	067404	PULLEY ASSEMBLY, Take-up	-	D
19A-	067405	PULLEY ASSEMBLY, Rewind	-	D
19A-1	067439	SHAFT SUBASSY, Take-up and rewind	1	D
-2	611821	NUT, Elastic stop	1	D
-3	611820	WASHER, Extruded	1	D
-4	620943	RETAINER, Clutch ball	1	D
-5	5238	BALL, Steel	3	D
-6	620941	SPRING, Compression	1	D
-7	620942	CAM, Clutch	1	D
-8	063129	PULLEY AND BEARING ASSEMBLY	1	D

NOTE: Pulley assemblies 067404 and 067405 are identical except for the manner in which the clutch cam (7) is installed. In like fashion, pulley assemblies 061092 and 061093 (Figure 20) are identical except for the manner in which the ratchet (5) is installed.

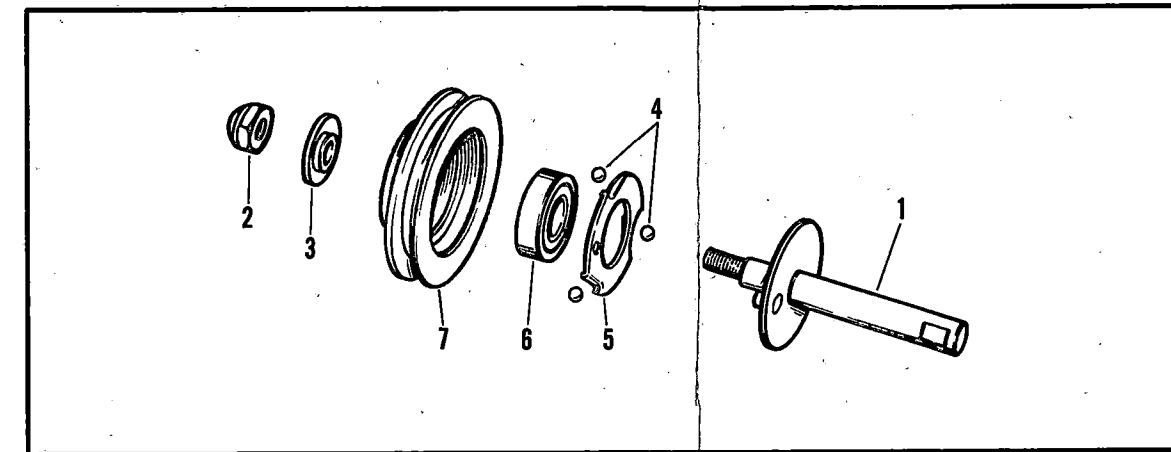


Figure 20. Take-up and Rewind Pulley Assemblies (614CB, 614CBM, 614CBRM)

FIG. & INDEX NO.	PART NO.	DESCRIPTION	UNITS PER ASSY	USABLE ON CODE
20-	061092	PULLEY ASSEMBLY, Take-up	-	ABC
20-	061093	PULLEY ASSEMBLY, Rewind	-	ABC
20-1	061169	SHAFT SUBASSEMBLY, Take-up and rewind	1	ABC
-2	611821	NUT, Elastic stop	1	ABC
-3	611820	WASHER, Pulley extruded	1	ABC
-4	605098	BALL, Bearing	3	ABC
-5	611231	RATCHET, Take-up and rewind pulley	1	ABC
-6	602304	BEARING, Ball	1	ABC
-7	611259	PULLEY, Take-up and rewind	1	ABC
21-	063186	LENS ASSEMBLY, Condenser	-	
21-1	613437	CONDENSER, Front	1	
-2	613438	SPRING, Front condenser lens lock	1	
-3	620034	CONDENSER, Aspheric, rear	1	
-4	620927	SPRING, Rear condenser lens lock	1	
-5	611328	LEVER, Condenser lens bracket lock	1	
-6	611327	SCREW, Condenser lens bracket	2	
-7	611354	SPRING, Lock lever	1	
-8	613440	BRACKET, Condenser lens	1	

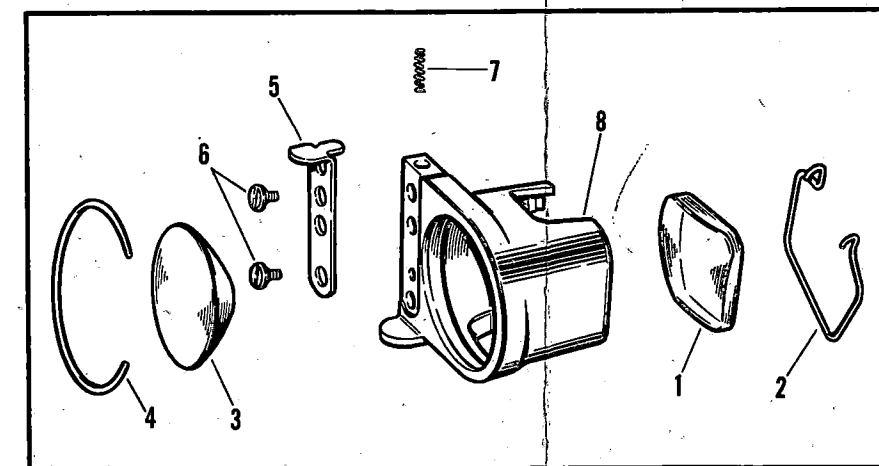


Figure 21. Condenser Lens Assembly

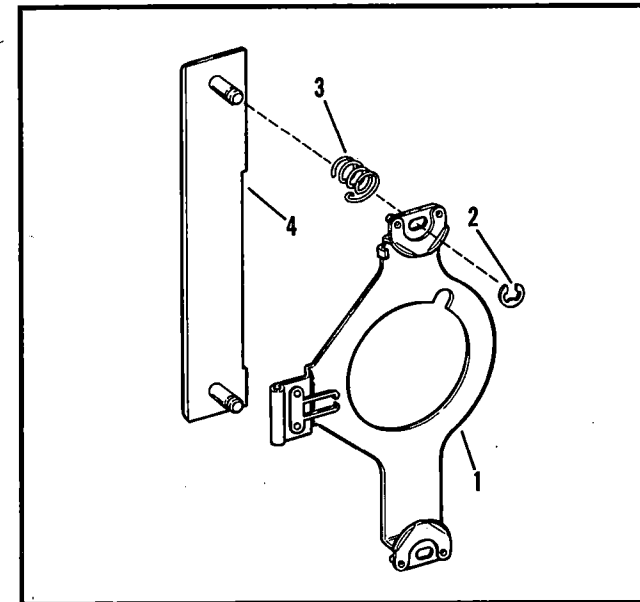


Figure 22. Pressure Plate Assembly

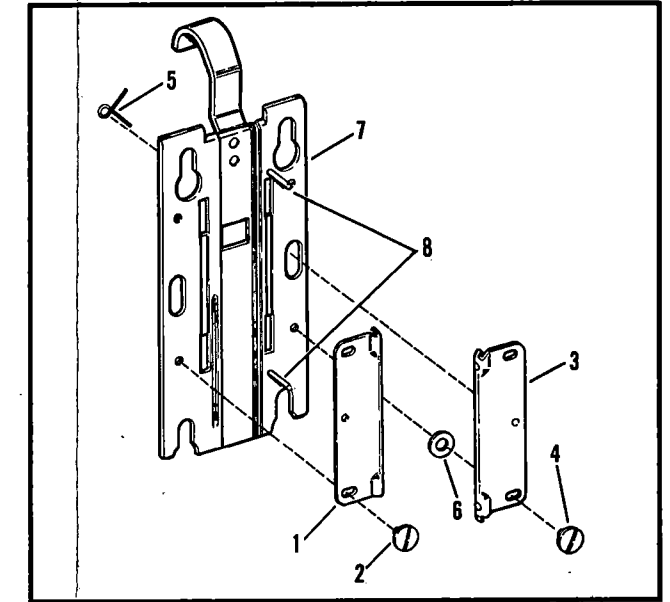


Figure 23. Aperture Plate Assembly

FIG. & INDEX NO.	PART NO.	DESCRIPTION							UNITS PER ASSY	USABLE ON CODE
		1	2	3	4	5	6	7		
22-	063195								—	
22-1	No Number								NP	
-2	613468								2	
-3	611772								2	
-4	063476								1	
23-	063196								—	
23-1	061150								1	
-2	611499								2	
-3	061151								1	
-4	611484								2	
-5	611482								1	
-6	611483								2	
-7	063158								1	
-8	613308								2	

FIG. & INDEX NO.	PART NO.	DESCRIPTION	UNITS							USABLE ON CODE	
			1	2	3	4	5	6	7		
24-	061026	HOLDER ASSEMBLY, Lens								—	
24-1	061136	. SCREW ASSEMBLY, Lens lock								1	
-2	620036	. RACK, Lens focusing gear								1	
-3	4080	. SCREW, Gear rack								2	
-4	620035	. HOLDER, Lens								1	
25-	063188	MOUNTING ASSEMBLY, Pressure plate and lens								1	
25-1	063189	. HOLDER ASSEMBLY, Pressure plate								1	
-2	614587	. NUT, Elastic stop								1	
-3	613448	. ARM, Holder rod push								1	
-4	613447	. COLLAR, Holder rod								1	
-5	613446	. SPRING, Compression								1	
-6	611277	. KNOB, Focusing								1	
-7	620899	. SETSCREW								1	
-8	611645	. WASHER, Spring								1	
-9	613453	. KNOB, Release rod								1	
-10	613455	. RAIL, Lens holder side								1	
-11	600833	. SCREW, Round head								2	
-12	611734	. WASHER, Lock								2	
-13	613451	. SPRING, Compression								1	
-14	613450	. ROD, Pressure plate release								1	
-15	611334	. PINION, Focusing								1	
-16	613458	. PLATE, Flat spring retaining								1	
-17	600833	. SCREW, Round head								2	
-18	611734	. WASHER, Lock								2	
-19	613457	. SPRING, Lens holder flat								1	
-20	620005	. RAIL, Lens holder top								1	
-21	600950	. SCREW, Round head								2	
-22	613454	. STUD, Lens holder stop								1	
-23	613444	. MOUNTING, Lens holder								1	
26-	067223	COVER ASSEMBLY, Shutter								—	ABC
26-	061083	COVER ASSEMBLY, Shutter								—	D
26-1	620745	. NAMEPLATE, Shutter cover								1	ABC
-1	620749	. NAMEPLATE, Shutter cover								1	D
-2	600986	. NUT, Hex								4	D
-3	600789	. WASHER, Lock								4	D
-4	600687	. SCREW, Round head								4	D
-5	620739	. PLATE, Shutter cover								1	D
-6	613362	. PLATE, Warning								1	
-7	600760	. PIN, Drive								4	
-8	611846	. SHIELD, Upper								1	
-9	600760	. PIN, Drive								4	
-10	611212	. SPACER, Heat shield								2	
-11	611257	. SHIELD, Lower								1	
-12	600760	. PIN, Drive								4	
-13	*611456	. SEAT, Film gate lock								1	ABC
-14	620747	. COVER, Shutter								1	D
-14	611863	. COVER, Shutter								1	D

*Not procurable separately.

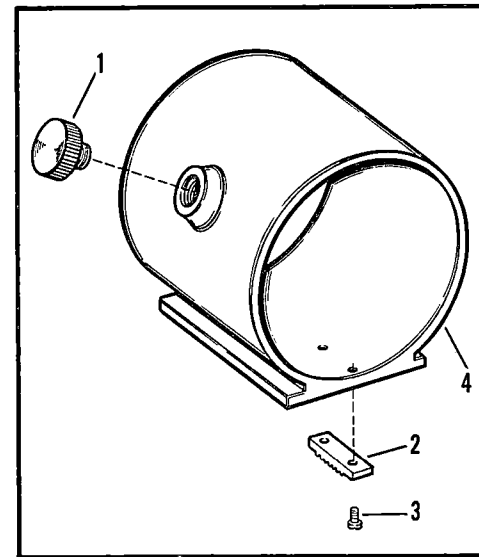


Figure 24. Lens Holder Assembly

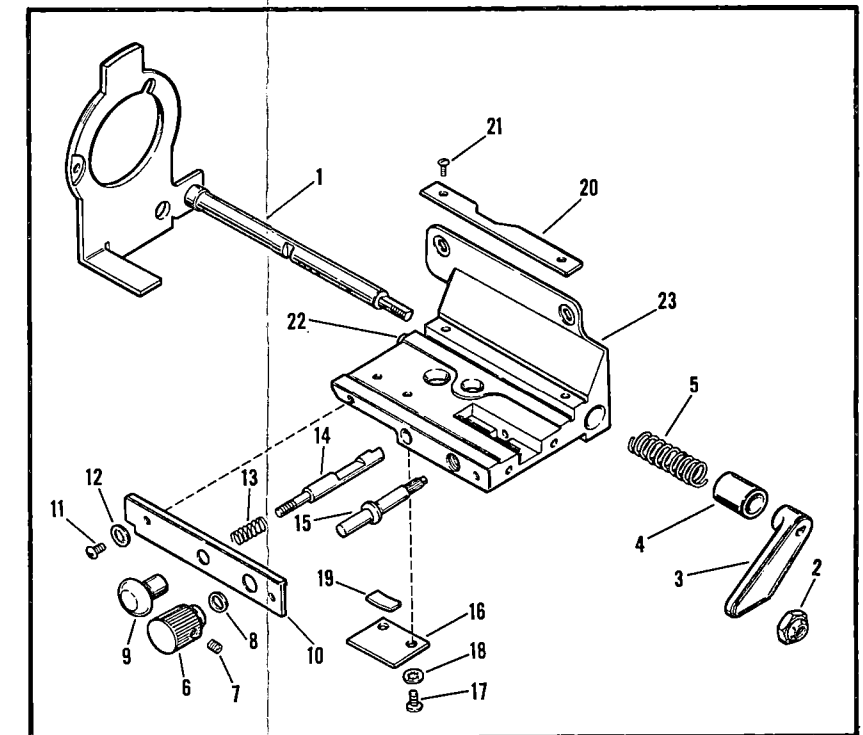


Figure 25. Lens Mounting Assembly

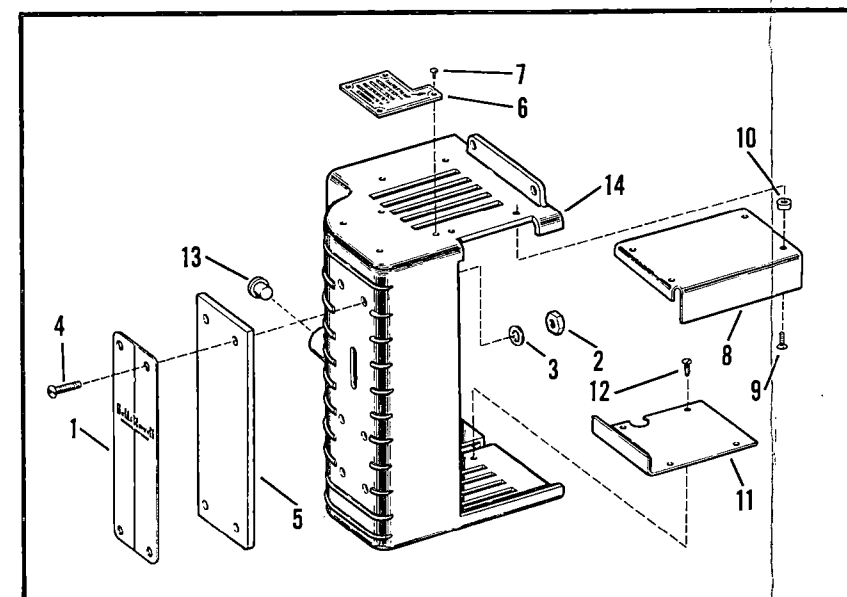


Figure 26. Shutter Cover Assembly

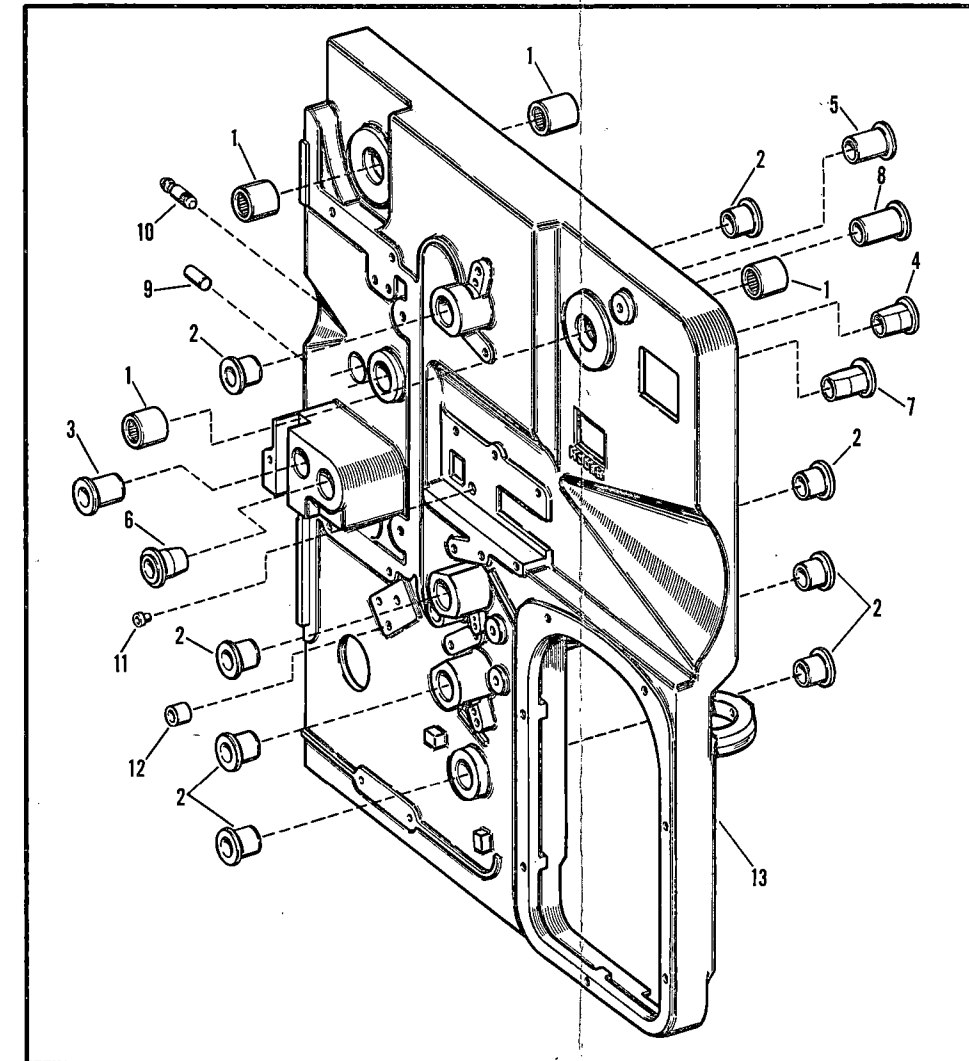


Figure 27. Front Mechanism Plate Bearings
(for Factory service only - order #061156 as replacement)

FIG. & INDEX NO.	PART NO.	DESCRIPTION							UNITS PER ASSY	USABLE ON CODE
		1	2	3	4	5	6	7		
27-	061156	PLATE AND INSERT SUBASSEMBLY							-	
-1	609146	. BEARING, Needle, small roll							4	
-2	611250	. BEARING, Film sprocket shaft							8	
-3	611320	. BEARING, Rear camshaft front							1	
-4	611321	. BEARING, Rear camshaft rear							1	
-5	611402	. BEARING, Drive shaft							1	
-6	611957	. BEARING, Front camshaft front							1	
-7	611754	. BEARING, Front camshaft rear							1	
-8	611958	. BEARING, Shutter shaft							1	
-9	611355	. PIN, Dowel							1	
-10	611356	. STUD, Condenser lens bracket lock							1	
-11	611456	. SEAT, Film gate lock							1	
-12	611562	. BEARING, Loopsetter pivot shaft							1	
-13	061920	. PLATE AND BUSHING ASSEMBLY, Front mechanism							1	

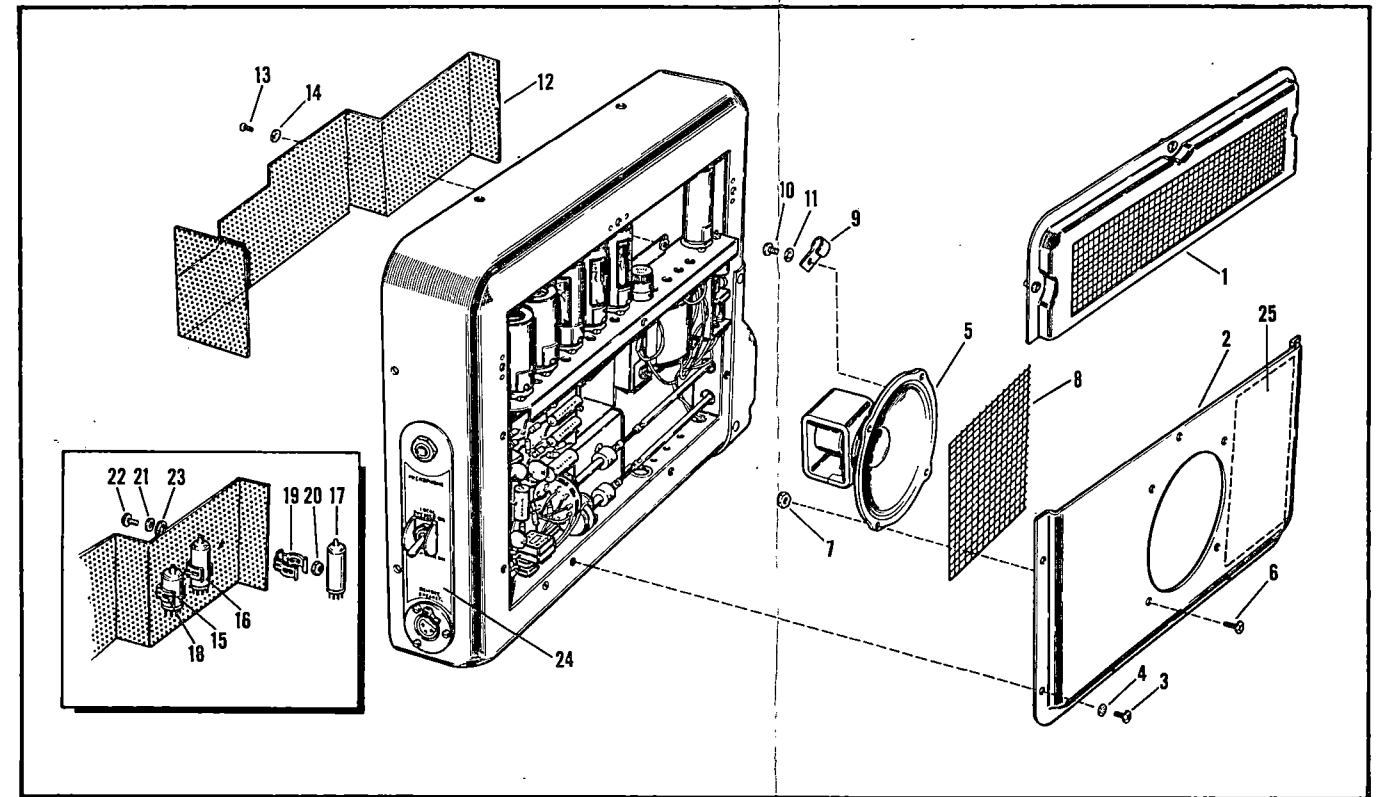


Figure 28. Loudspeaker and Grilles

FIG. & INDEX NO.	PART NO.	DESCRIPTION	UNITS PER ASSY							USABLE ON CODE	
			1	2	3	4	5	6	7		
28-	067254	AMPLIFIER AND SPEAKER ASSEMBLY								—	A
28-	067274	AMPLIFIER AND SPEAKER ASSEMBLY								—	BC
28-	067484	AMPLIFIER AND SPEAKER ASSEMBLY								—	D
-1	062763	. GRILLE ASSEMBLY, Tube vent								1	ABC
-1	067434	. GRILLE ASSEMBLY, Tube vent								1	D
-2	620059	. PANEL, Speaker								1	ABC
-2	620984	. PANEL, Speaker								1	D
-3	620044	. SCREW, Phillips head								7	
-4	600735	. WASHER, Lock								7	
-5	612833	. LOUDSPEAKER, 5 inch								1	
-6	620062	. SCREW, Phillips head								4	
-7	615925	. NUT, Cam lock								4	
-8	620080	. GRILLE, Speaker								1	
-9	613258	. CLAMP, Cable								1	
-10	600806	. SCREW, Round head								3	
-11	600735	. WASHER, Lock								3	
-12	612829	. SCREEN, Protective rear								1	ABC
-12	620967	. SCREEN, Protective rear								1	D
-13	600806	. SCREW, Round head								3	
-14	600735	. WASHER, Lock								3	
-15, 16, 17	(not supplied)	. TUBE, Spare								Ref	D
-18	620973	. CLIP, Tube								1	D
-19	620974	. CLIP, Tube								2	D
-20	600985	. NUT, Hex								3	D
-21	611734	. WASHER, Lock								3	D
-22	600768	. SCREW, Round head								3	D
-23	21238	. WASHER, Flat								3	D
-24	620952	. PANEL, Input-output								1	D
-25	620989	. LABEL, Amplifier schematic								1	D

FIG. & INDEX NO.	PART NO.	DESCRIPTION	UNITS PER ASSY	USABLE ON CODE	
				1	2
29-1	25580	FUSEHOLDER, Extraction type, size 3AG . . .	1		
-2	620857	FUSE, Cartridge type, 1 amp, 125v	1		
-3	612844	SHIELD, Tube, type TS102U03	4	ABC	
-3	620907	SHIELD, Tube (with insert)	4	D	
-4	612836	SHIELD, Tube, type TS103U02	2		
-5	612837	SHIELD, Tube, type TS102U03	1		
-6	614331	TUBE, Electron (JAN 12AX7)	7		
-7	614454	TUBE, Electron (JAN 6AQ5)	2		
-8	614455	TUBE, Electron (JAN 2X4)	2		
-9	614454	TUBE, Electron (JAN 6AQ5)	1		
-10	620758	TRANSFORMER, Power	1		
-10	600982	NUT, Hex	4		
-10	600797	WASHER, Lock	4		
-10	612764	PLATE, Transformer reinforcing	8		
-11	067261	COIL ASSEMBLY, Oscillator	1		
-11	COML	NUT, Hex (supplied with coil)	2		
-11	600735	WASHER, Lock	1		
-12	612776	RECEPTACLE, Coaxial	1		
-12	600768	SCREW, Round head	2		
-12	611734	WASHER, Special	2		
-12	600985	NUT, Hex	2		
-13	612904	CAPACITOR, Feed thru, 1500 uf, 500 wvdc	3		
-13	COML	NUT, Hex (supplied with capacitor)	3		
-13	600733	WASHER, Lock	3		
-14	612767	CAPACITOR, Fixed 0.1 uf, 400 wvdc	1		
-15	600806	SCREW, Round head	1		
-15	600735	WASHER, Lock	1		
-15	600981	NUT, Hex	1		
-16	612765	RESISTOR, Fixed, 47 ohms \pm 10%, 1/2 watt	1		
-17	600698	LUG, Terminal	1		
-18	600806	SCREW, Round head	1		
-18	600981	NUT, Hex	1		
-19	612732	KNOB, Control	2		
-20	620906	SETSCREW	2		
-21	612843	SHAFT ASSEMBLY, Control	2		
-22	620904	SETSCREW	2		
-23	612834	POTENTIOMETER	1		
-24	604200	NUT, Hex	1		
-24	604199	WASHER, Plain	1		
-24	600736	WASHER, Lock	1		
-25	067103	SWITCH ASSEMBLY, Tone control	1		
	612590	RESISTOR, Fixed, 10 meg, 1/4w	3		
-26	604200	NUT, Hex	1		
-26	604199	WASHER, Plain	1		
-26	600736	WASHER, Lock	1		
-27	612726	BRACKET, Switch mounting	2		
-28	600806	SCREW, Round head	4		
-28	600735	WASHER, Lock	4		
-28	600981	NUT, Hex	3		
-28	601190	NUT, Hex	1		
-29	062830	STRIP ASSY, Resistor-capacitor (see figure 31)	1	ABC	
-29	067458	STRIP ASSY, Resistor-capacitor (see figure 31A)	1	D	
-30	615925	NUT, Cam lock	4		
-30	600809	SCREW, Round head	3		
-30	613379	SPACER	3		
-31	612841	RESISTOR, Fixed wire wound, 160 ohms, 8 watts	1	ABC	
-31	621023	RESISTOR, Fixed wire wound, 220 ohms, 8 watts	1	D	
-32	600727	SCREW, Round head	1		
-32	615925	NUT, Cam lock	1		
-32	601588	WASHER, Insulating	2		
-32	612875	PLATE, Insulating	1		
-33	613378	SOCKET, Tube, 9-pin miniature	2		

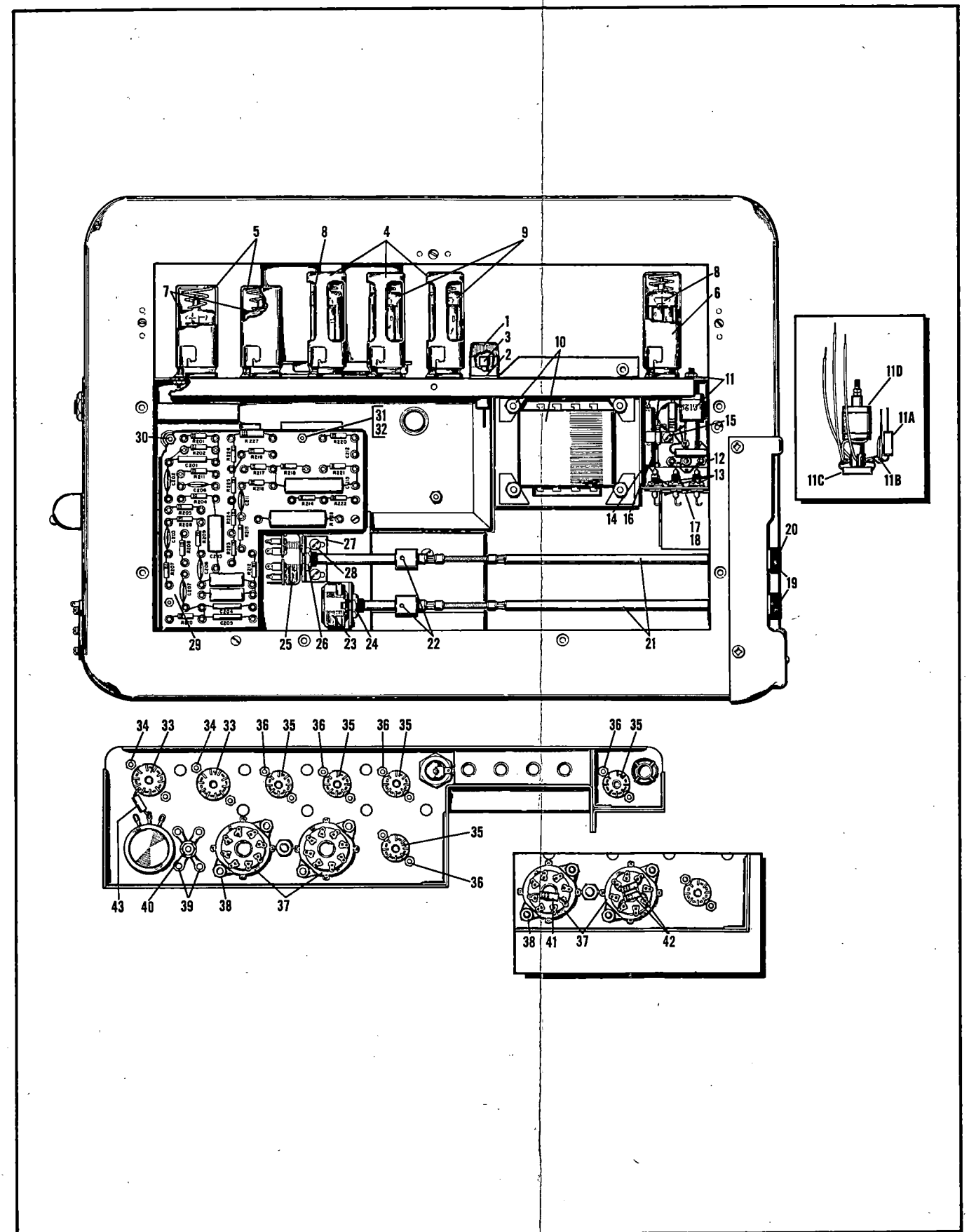


Figure 29. Amplifier Tubes and Sockets

FIG. & INDEX NO.	PART NO.	DESCRIPTION							UNITS PER ASSY	USABLE ON CODE
		1	2	3	4	5	6	7		
29-34	600768								4	
-34	600985								4	
-34	611734								4	
-35	612842								5	
-36	600768								10	
-36	600985								10	
-36	611734								10	
-37	612940								2	
-38	600806								4	
-38	601190								4	
-38	600735								4	
-39	600695								2	
-40	600806								1	
-40	600981								1	
-41	604032								1	BCD
-42	604344								1	BCD
-43	613541								2	BCD
30-1	612870								1	ABC
30-1	067357								1	D
-2	604200								1	
-2	604199								1	
-2	600736								1	
-3	612828								1	
-4	620019								1	
-5	612839								2	
-6	604569								1	
-7	No Number								1	
-7	604167								1	
-7	604132								1	
-8	612777								1	ABC
-9	No Number								1	ABC
-9	610965								1	ABC
-10	612835								1	ABC
-11	614534								1	
-12	620064								1	
-13	612955								1	ABC
-13	620953								1	D
-14	600874								3	
-14	600985								3	
-14	611734								3	
-15	611549								1	
-16	19025								2	
-17	613258								2	
-18	600850								2	
-18	600981								2	
-18	600735								2	
-19	620759								1	ABC
-19	067256								1	D
-20	600803								2	
-20	600982								1	
-20	600797								2	
-21	613258								1	
-22	600820								1	
-22	600981								1	
-22	600735								1	
-23	611882								1	
-24	612735								1	
-25	612897								1	
-26	612725								1	
-27	620058								1	ABC
-27	620986								1	D

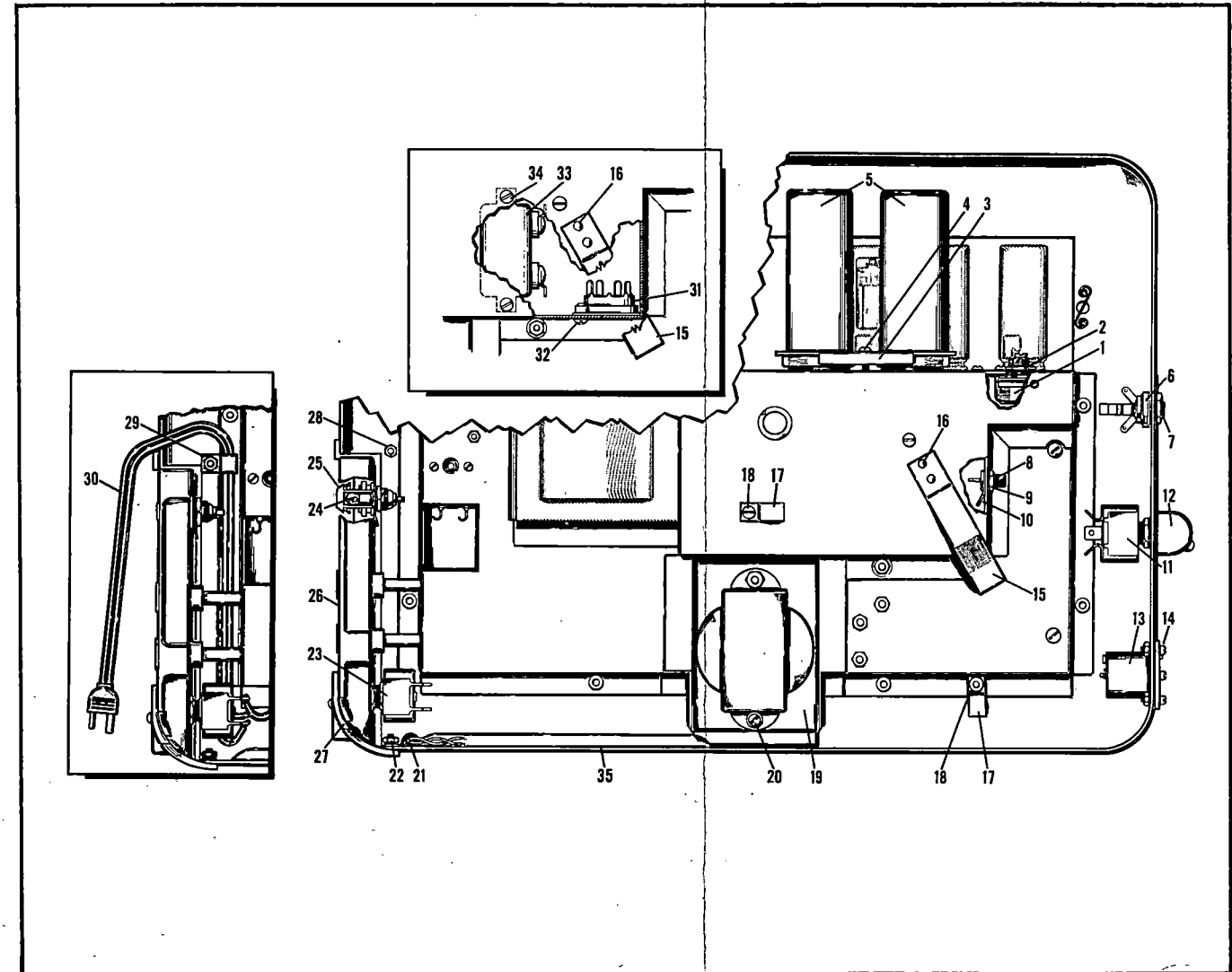


Figure 30. Amplifier Capacitors and Switches

FIG. & INDEX NO.	PART NO.	DESCRIPTION							UNITS PER ASSY	USABLE ON CODE
		1	2	3	4	5	6	7		
30-28	620044								2	
-28	600981								2	
-28	600735								2	
-29	21280								1	D
-30	621003								1	D
-31	067271								1	BC
-31	067448								1	D
-32	600806								2	BCD
-32	600735								2	BCD
-32	600981								2	BCD
-33	620779								1	BC
-33	621000								1	D
-34	600985								2	BCD
-34	600768								2	BCD
-34	611734								2	BCD
-35	065035								1	ABC
-35	067420								1	D

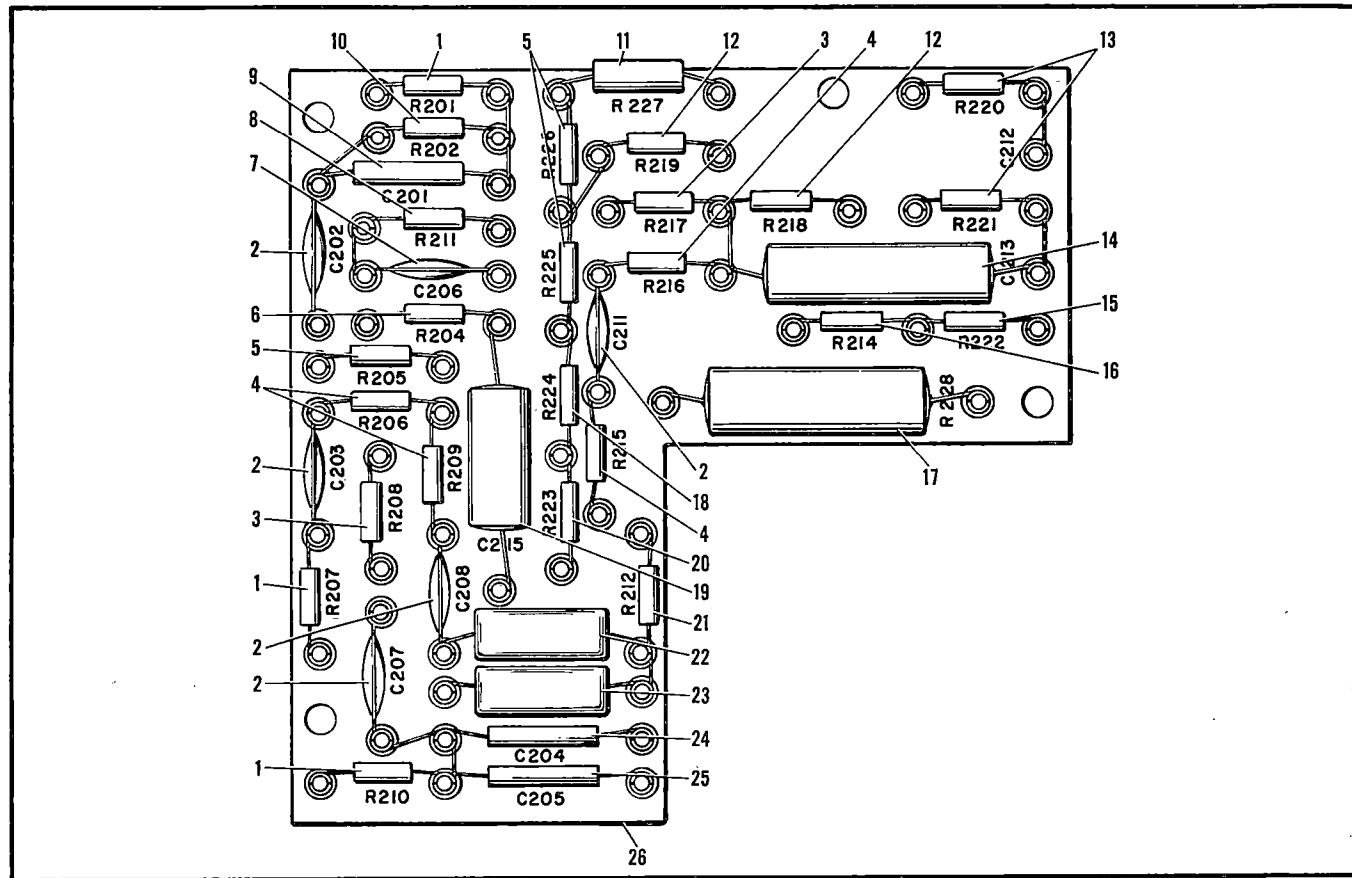


Figure 31. Resistor - Capacitor Strip Assembly
(614CB, 614CBM, 614CBRM)

FIG. & INDEX NO.	PART NO.	DESCRIPTION	UNITS PER ASSY						USABLE ON CODE
			1	2	3	4	5	6	
31-	062830	STRIP ASSEMBLY, Resistor-Capacitor	-	-	-	-	-	-	ABC
-1	604020	. RESISTOR, Fixed, 1 meg ± 10%, 1/2 w						3	ABC
-2	614476	. CAPACITOR, Fixed, 0.005 uf 500 w vdc						5	ABC
-3	613383	. RESISTOR, Fixed, 5600 ohms ± 10%, 1/2 w						2	ABC
-4	613380	. RESISTOR, Fixed, 560,000 ohms ± 10%, 1/2 w						4	ABC
-5	604344	. RESISTOR, Fixed, 10,000 ohms ± 10%, 1/2 w						3	ABC
-6	612782	. RESISTOR, Fixed, 56000 ohms ± 10%, 1/2 w						1	ABC
-7	614475	. CAPACITOR, Fixed ceramic, 0.01 uf, 500 w vdc						1	ABC
-8	612781	. RESISTOR, Fixed, 8200 ohms ± 10%, 1/2 w						1	ABC
-9	614436	. CAPACITOR, Fixed mica, 200 uuf ± 5%, 500 w vdc						1	ABC
-10	612701	. RESISTOR, Fixed, 750,000 ohms ± 5%, 1/2 w						1	ABC
-11	612736	. RESISTOR, Fixed, 15,000 ohms ± 10%, 1 w						1	ABC
-12	612789	. RESISTOR, Fixed, 110,000 ohms ± 5%, 1/2 w						2	ABC
-13	604032	. RESISTOR, Fixed, 200,000 ohms ± 5%, 1/2 w						2	ABC
-14	612893	. CAPACITOR, Fixed paper, 0.1 uf ± 20% 400 w vdc						1	ABC
-15	603851	. RESISTOR, Fixed, 75,000 ohms ± 5%, 1/2 w						1	ABC
-16	612898	. RESISTOR, Fixed, 6800 ohms ± 10%, 1/2 w						1	ABC
-17	612895	. RESISTOR, Fixed, wire wound, 500 ohms ± 5%, 5 w						1	ABC
-18	604041	. RESISTOR, Fixed, 470,000 ohms ± 10%, 1/2 w						1	ABC
-19	612772	. CAPACITOR, Fixed paper, 0.1 uf ± 20%, 200 w vdc						1	ABC
-20	613380	. RESISTOR, Fixed, 270,000 ohms ± 10%, 1/2 w						1	ABC
-21	603298	. RESISTOR, Fixed, 3.3 megohms ± 10%, 1/2 w						1	ABC
-22	615927	. CAPACITOR, Fixed mica, 1000 uuf ± 20% 500 w vdc						1	ABC
-23	615928	. CAPACITOR, Fixed mica, 2200 uuf ± 20% 500 w vdc						1	ABC
-24	604456	. CAPACITOR, Fixed mica, 51 uuf ± 5%, 500 w vdc						1	ABC
-25	604252	. CAPACITOR, Fixed mica, 100 uuf ± 20% 500 w vdc						1	ABC
-26	062745	. STRIP, Resistor-Capacitor mounting						1	ABC

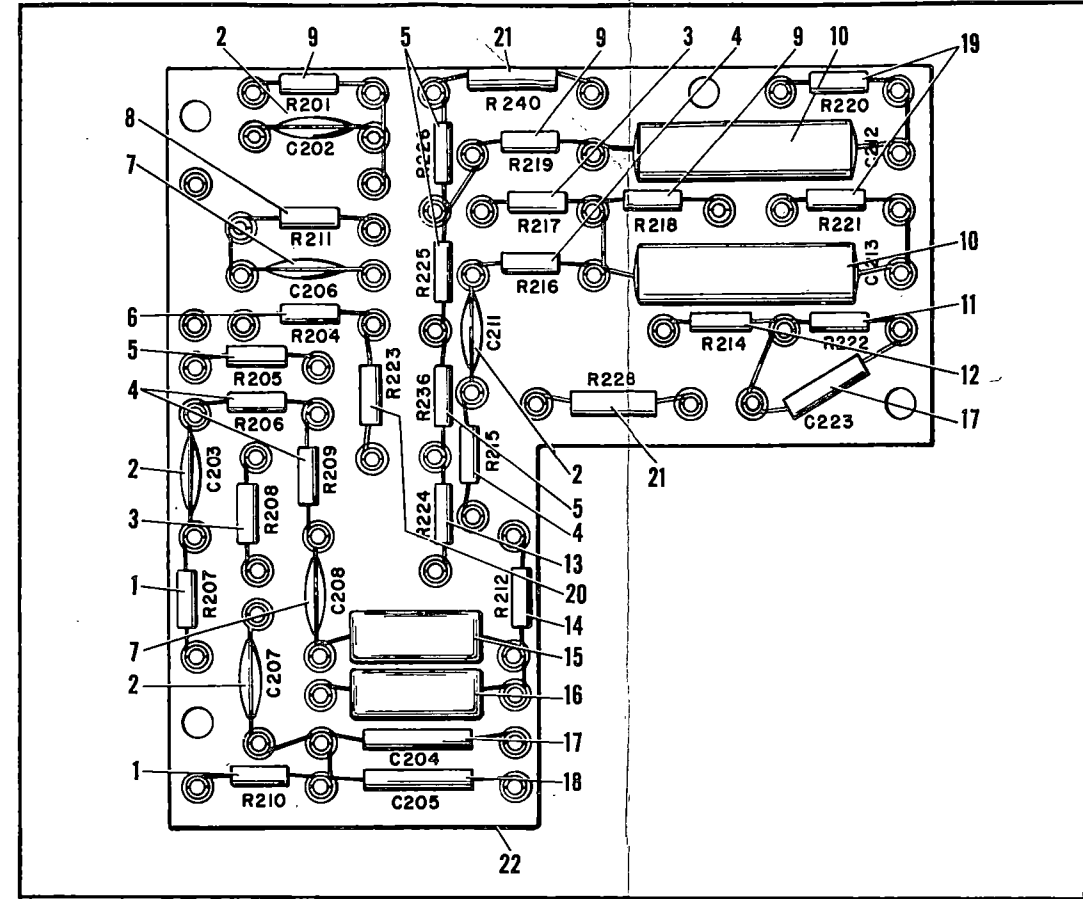


Figure 31A. Resistor - Capacitor Strip Assembly (614CD only)

FIG. & INDEX NO.	PART NO.	DESCRIPTION	UNITS PER ASSY							USABLE ON CODE	
			1	2	3	4	5	6	7		
31A-	067458	STRIP ASSY, Resistor-capacitor	-	-	-	-	-	-	-	-	D
31A-1	604020	. RESISTOR, Fixed, 1 meg, 1/2 watt									2
-2	614476	. CAPACITOR, Fixed, 0.005 uf									4
-3	613383	. RESISTOR, Fixed, 5600 ohms, 1/2 watt									2
-4	613380	. RESISTOR, Fixed, 560K, 1/2 watt									4
-5	604344	. RESISTOR, Fixed, 10K, 1/2 watt									4
-6	612782	. RESISTOR, Fixed, 56K, 1/2 watt									1
-7	614475	. CAPACITOR, Fixed, 0.01 uf									2
-8	612781	. RESISTOR, Fixed, 8200 ohms, 1/2 watt									1
-9	604032	. RESISTOR, Fixed, 200K, 1/2 watt									3
-10	612893	. CAPACITOR, Fixed, 0.1 uf									2
-11	603851	. RESISTOR, Fixed, 75K, 1/2 watt									1
-12	612898	. RESISTOR, Fixed, 6800 ohms, 1/2 watt									1
-13	621072	. RESISTOR, Fixed, 430K, 1/2 watt									1
-14	603298	. RESISTOR, Fixed, 3.3 meg, 1/2 watt									1
-15	615927	. CAPACITOR, Fixed, 1000 uuf									1
-16	615928	. CAPACITOR, Fixed, 2200 uuf									1
-17	604456	. CAPACITOR, Fixed, 51 uuf									2
-18	604252	. CAPACITOR, Fixed, 100 uuf									1
-19	612789	. RESISTOR, Fixed, 110K, 1/2 watt									2
-20	621021	. RESISTOR, Fixed, 47K, 1/2 watt									1
-21	621022	. RESISTOR, Wire wound, 350 ohm, 3 watt									2
-22	067459	. STRIP, Mounting									1

FIG. & INDEX NO.	PART NO.	DESCRIPTION	UNITS PER ASSY							USABLE ON CODE
			1	2	3	4	5	6	7	
32-	065015	CASE ASSEMBLY, Projector							—	ABC
32-	067416	CASE ASSEMBLY, Projector							—	D
-1	620746	PLATE, Identification							1	ABC
-1	620865	PLATE, Identification							1	D
-2	620000	SCREW, Round head							4	
-3	600735	WASHER, Lock							4	
-4	600981	NUT, Hex							4	
-5	613333	PLATE, Lubrication instruction							1	
-6	620000	SCREW, Round head							4	
-7	600735	WASHER, Lock							4	
-8	600981	NUT, Hex							4	
-9	620025	HANDLE, Clear							1	
-10	615749	NUT, Elastic stop							4	
-11	611967	POST, Case handle							4	
-12	613249	SPRING, Case handle torsion							2	
-13	611966	PIN							2	
-14	620057	PLATE, Case handle							4	
-15	620039	STOP, Loopsetter rod knob							1	
-16	611793	NUT, Speed							1	
-17	611368	PLATE, Rewind warning							1	
-18	613371	SCREW, Round head drive							4	
-19	065008	ROLLER ASSEMBLY, Film guide (see figure 36)							2	
-20	600832	SCREW							4	
-21	600789	WASHER, Lock							4	
-22	600898	WASHER, Flat							4	
-23	613310	PAD, Cork							4	
-24	611870	FILTER, Acoustic							1	
-25	620063	COVER, Receptacle mounting hole							2	
-26	600844	SCREW, Round head							4	
-27	600985	NUT, Hex							4	
-28	611734	WASHER, Lock							4	
-29	067221	RECEPTACLE, 3-pin							1	ABC
-29	067477	RECEPTACLE, 3-pin							1	D
-30	611805	SCREW, Oval head							4	
-31	600985	NUT, Hex							4	
-32	611734	WASHER, Lock							4	
-33	620743	PLATE, Ground warning							1	
-34	613371	SCREW, Round head drive							4	
-35	611495	BRACKET, Support							2	
-36	620042	SCREW, Phillips head							4	
-37	600797	WASHER, Lock							4	
-38	611640	BRACKET, Reel arm storage							1	
-39	620042	SCREW, Phillips head							2	
-40	600797	WASHER, Lock							2	
-41	620710	WASHER, Flat							2	
-42	613359	BRACKET, Reel arm storage							1	
-43	611860	RIVET, Brass tubular							2	
-44	065033	LEG ASSEMBLY, Rear (see figure 35)							1	ABC
-44	067423	LEG ASSEMBLY, Rear (see figure 36A)							1	D
-45	620019	SCREW, Round head							2	
-46	615749	NUT, Elastic stop							2	
-47	065030	LEG ASSEMBLY, Front (see figure 36)							1	ABC
-47	067425	LEG ASSEMBLY, Front (see figure 36B)							1	D
-48	620019	SCREW, Round head							2	
-49	615749	NUT, Elastic stop							2	
-50	620957	SPACER, Projector leg							2	D
-51	620056	KNOB, Tilt jack							1	
-52	611388	PIN, Straight							1	
-53	614380	LEG, Tilt jack (rubber)							1	
-54	611868	RACK, Tilt jack							1	
-55	061138	HOUSING, Tilt jack							1	
-56	620018	SCREW, Flat head							3	

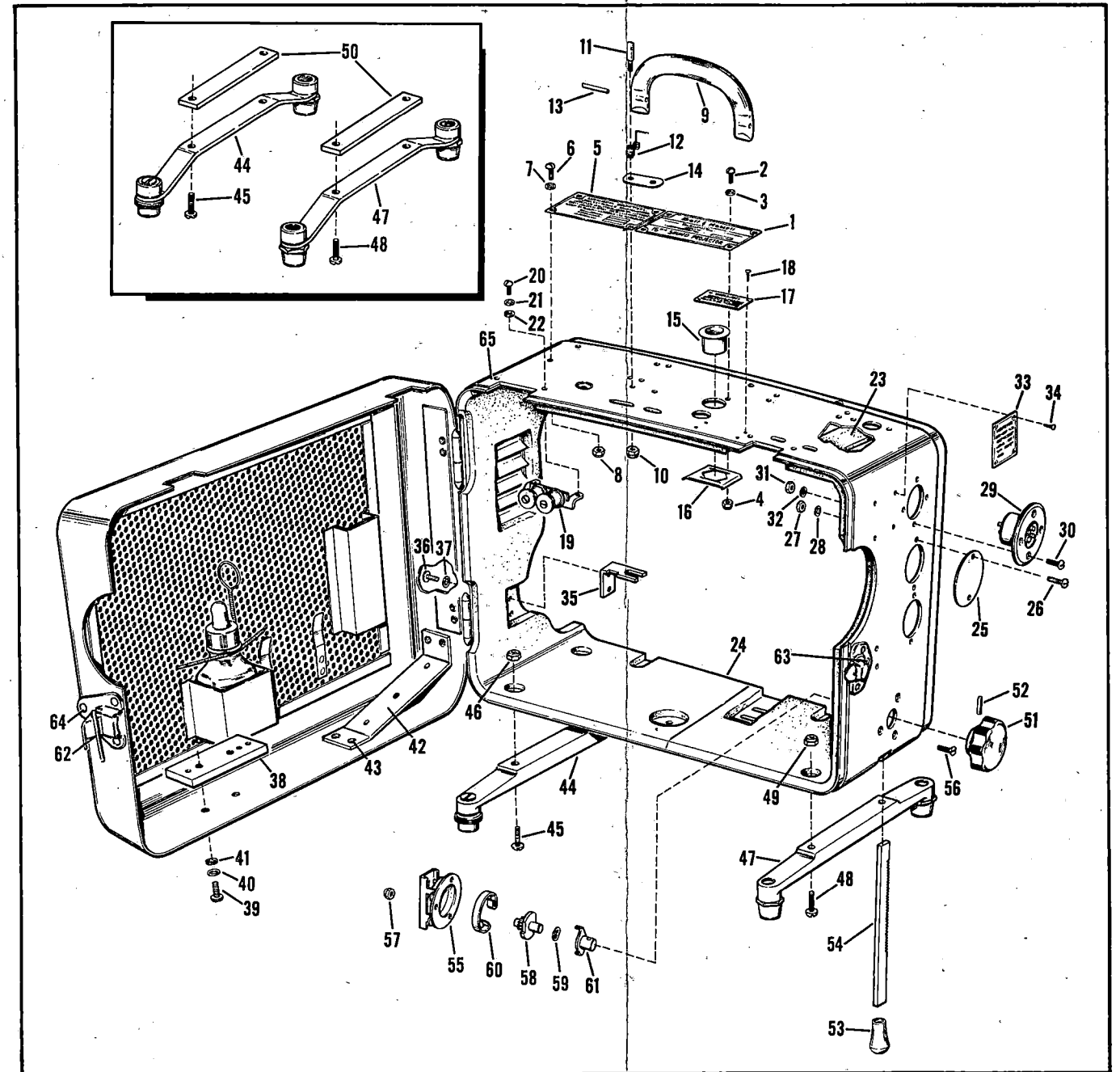


Figure 32. Projector Carrying Case Assembly

FIG. & INDEX NO.	PART NO.	DESCRIPTION	UNITS PER ASSY							USABLE ON CODE
			1	2	3	4	5	6	7	
32-57	611453	NUT, Elastic stop							3	
-58	061139	PINION ASSEMBLY, Tilt jack							1	
-59	611747	WASHER, Thrust							1	
-60	611989	SPRING, Tilt jack friction							1	
-61	061129	ARM ASSEMBLY, Tilt jack							1	
-62	620022	CLASP, Case							1	ABC
-62	620924	CATCH, Case draw bolt							1	D
-63	620923	STRIKE, Case draw bolt							1	D
-64	620047	RIVET, Brass tubular							6	
-65	065027	CASE SUBASSEMBLY							1	ABC
-65	067415	CASE SUBASSEMBLY							1	D

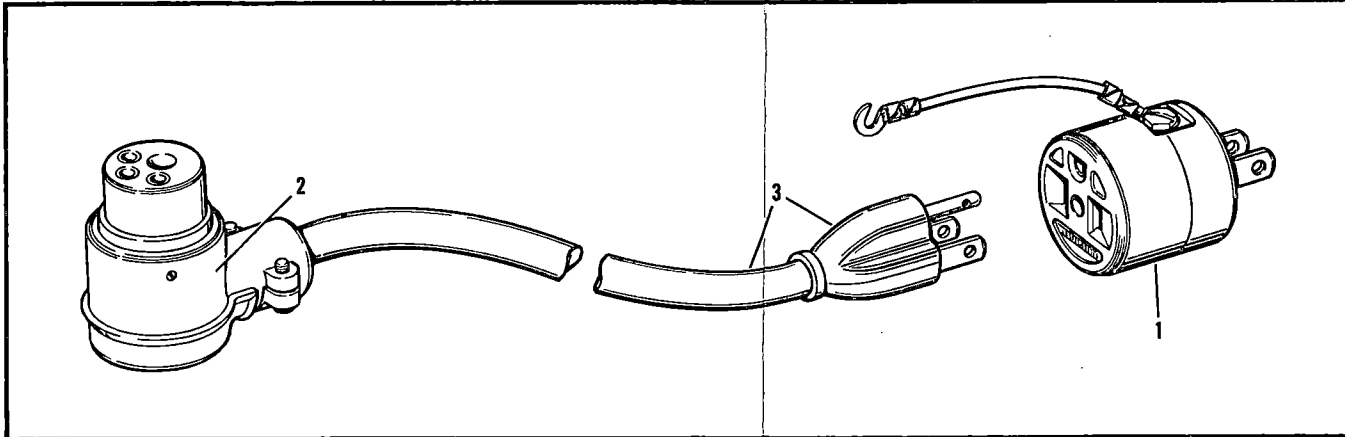


Figure 33. Power Cord Assembly

FIG. & INDEX NO.	PART NO.	DESCRIPTION	UNITS PER ASSY	USABLE ON CODE		
					1	2
33-	067249	CORD ASSEMBLY, Power (projector)	-			
-1	620760	. ADAPTER	1			
33-	067248	. CABLE ASSEMBLY, Power	1			
-2	620742	. PLUG	1			
-3	620761	. CORD	1			
34-	065008	ROLLER BRACKET ASSEMBLY, Film guide	-			
-1	620040	. BRACKET, Film guide roller	1			
-2	611788	. SCREW, Roller shaft	2			
-3	600985	. NUT, Hex	2			
-4	611734	. WASHER, Lock	2			
-5	067344	. ROLLER, Film guide	1			

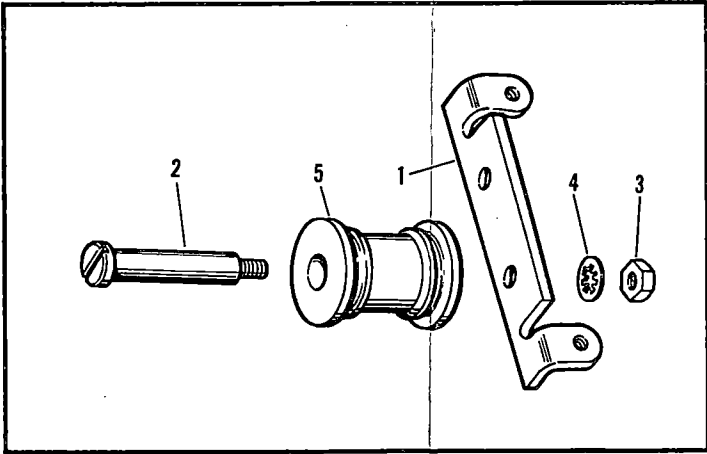


Figure 34. Film Guide Roller Assembly

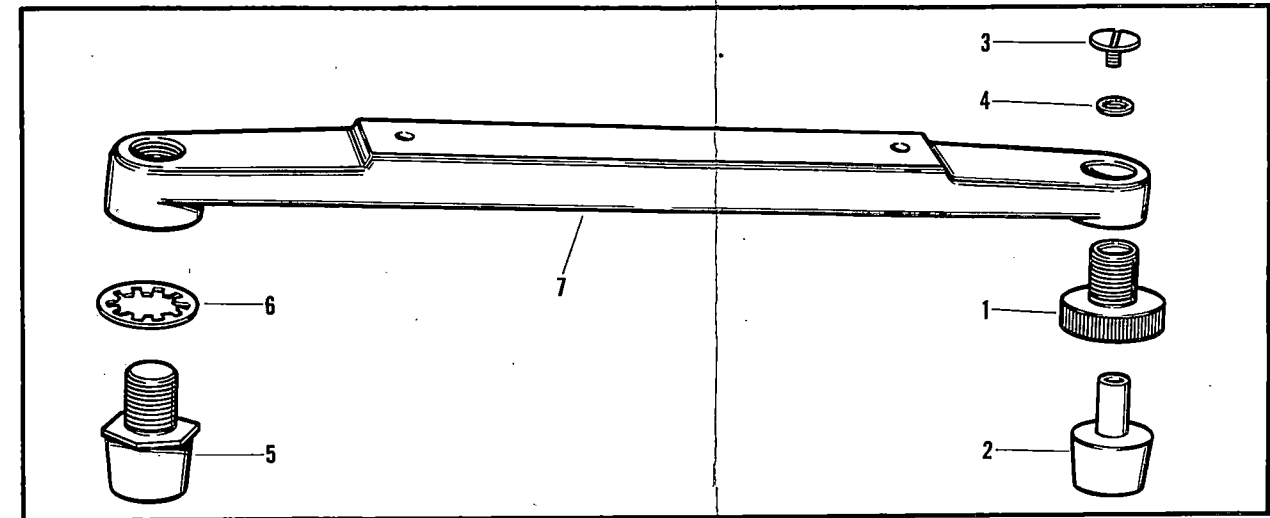


Figure 35. Projector Rear Leg Assembly
(614CB, 614CBM, 614CBRM)

FIG. & INDEX NO.	PART NO.	DESCRIPTION	UNITS							USABLE ON CODE	
			1	2	3	4	5	6	7		PER ASSY
35-	065033	PROJECTOR LEG ASSEMBLY, Rear								-	ABC
-1	611883	. SCREW, Case leg adjustment								1	ABC
-2	061999	. MOUNTING SUBASSEMBLY, Adjustable bumper								1	ABC
-3	611888	. SCREW, Binder head.								1	ABC
-4	600797	. WASHER								1	ABC
-5	061998	. MOUNTING SUBASSEMBLY, Bumper								1	ABC
-6	611856	. WASHER, Lock								1	ABC
-7	620079	. LEG, Projector case rear								1	ABC
36-	065030	PROJECTOR LEG ASSEMBLY, Front								-	ABC
-1	061998	. MOUNTING SUBASSEMBLY, Bumper								2	ABC
-2	611856	. WASHER, Lock								2	ABC
-3	620078	. LEG, Projection case front								1	ABC

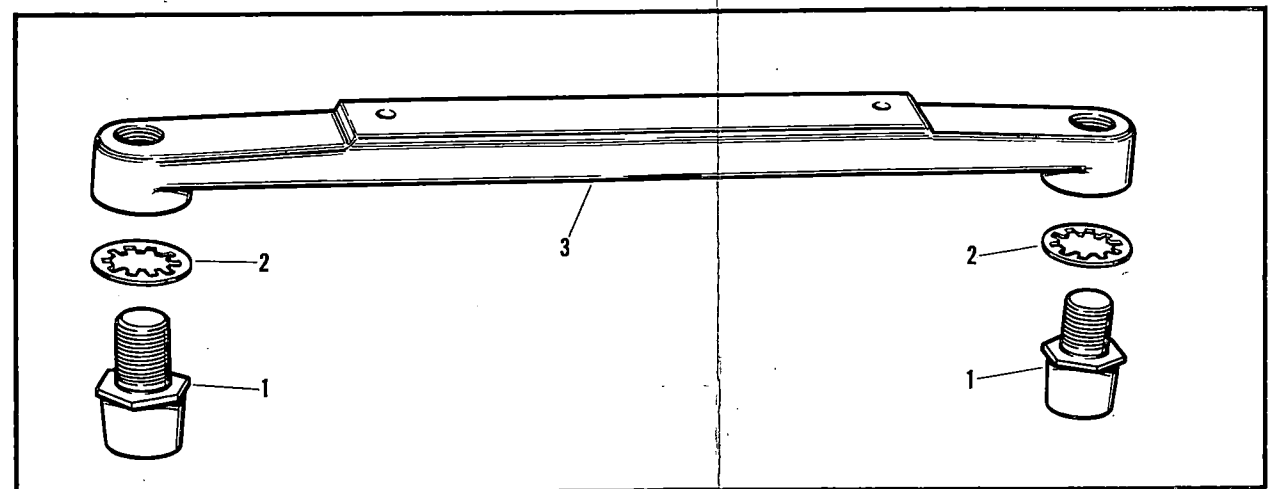


Figure 36. Projector Front Leg Assembly
(614CB, 614CBM, 614CBRM)

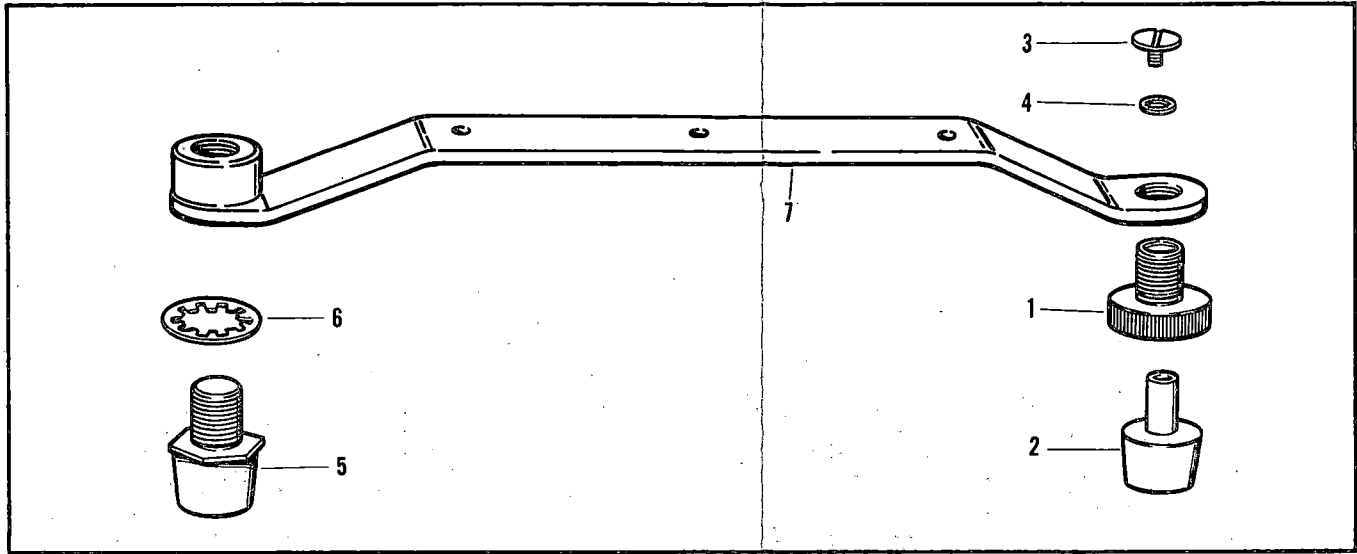


Figure 36A. Projector Rear Leg Assembly (614CD only)

FIG. & INDEX NO.	PART NO.	DESCRIPTION	UNITS PER ASSY	USABLE ON CODE										
					1	2	3	4	5	6	7			
36A-	067423	LEG ASSEMBLY, Projector rear	-	D										
36A-1	611883	. SCREW, Leg adjustment	1	D										
-2	061999	. MOUNTING ASSEMBLY, Adjustable bumper	1	D										
-3	611888	. SCREW, Binding head	1	D										
-4	600797	. WASHER, Lock	1	D										
-5	061998	. MOUNTING ASSEMBLY, Bumper	1	D										
-6	611856	. WASHER, Lock	1	D										
-7	067424	. LEG SUBASSEMBLY, Rear	1	D										
36B-	067425	LEG ASSEMBLY, Projector front	-	D										
-1	061998	. MOUNTING ASSEMBLY, Bumper	2	D										
-2	611856	. WASHER, Lock	2	D										
-3	067426	. LEG SUBASSEMBLY, Front	1	D										

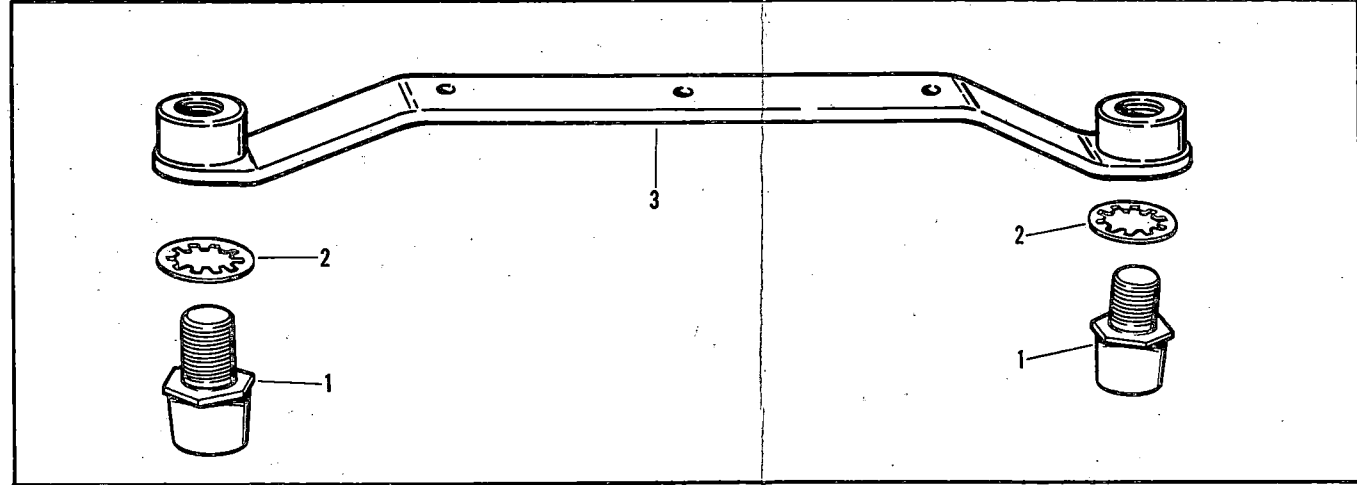


Figure 36B. Projector Front Leg Assembly (614CD only)

FIG. & INDEX NO.	PART NO.	DESCRIPTION	UNITS PER ASSY							USABLE ON CODE
			1	2	3	4	5	6	7	
37-	063810	HEAD ASSEMBLY, Sound							—	B
37-	063800	HEAD ASSEMBLY, Sound							—	C
37-1	611853	· RING, Retaining							2	
-2	611855	· WASHER, Flat							2	
-3	061094	· ROLLER ASSEMBLY, Upper jockey (see figure 8 for detail parts)							1	
-4	061095	· ROLLER ASSEMBLY, Lower jockey (see figure 9 for detail parts)							1	
-5	611852	· STUD, Jockey pivot							2	
-6	611797	· WASHER, Lock							2	
-7	605222	· SCREW, Impedance roller							1	
-8	065180	· ROLLER ASSEMBLY, Impedance (see figure 10 for detail parts)							1	
-9	600722	· SETSCREW							2	
-10	600871	· SETSCREW							1	
-11	063811	· HOUSING ASSEMBLY, Stabilizer bearing (see figure 11 for detail parts)							1	B
-11	063801	· HOUSING ASSEMBLY, Stabilizer bearing (see figure 11 for detail parts)							1	C
37-12	061188	· COVER ASSEMBLY, Exciter lamp							1	
-12A	611542	· SCREW, Lamp cover							1	
-12B	602336	· JEWEL, Ruby							1	
-12C	611857	· COVER, Exciter lamp							1	
-13	613261	· LAMP, Exciter							1	
-14	613392	· NUT, Lamp socket							1	
-15	613391	· CAM, Socket pin release							1	
-16	600799	· SCREW, Round head							1	
-17	600797	· WASHER, Lock							1	
-18	065370	· CONTACT ASSEMBLY, Socket							1	
-19	600919	· SCREW, Flat head							3	
-20	063175	· SOCKET ASSEMBLY, Exciter lamp							1	
-21	600833	· SCREW, Round head							2	
-22	613862	· SHIELD							1	
-23	600933	· SCREW, Scanning lens							1	
-24	611939	· LENS, Scanning							1	
-25	620496	· PLUG, Button							1	
-25	613864	· LAMP, Pilot							1	B
-26	613863	· SOCKET, Pilot lamp							1	C
-27	612836	· SHIELD, Tube							1	
-28	25017	· TUBE, JAN 12AY7							1	
-29	25039	· SCREW, Round head							2	
-30	81847	· NUT, Hex							2	
-31	067269	· TRANSFORMER, Input							1	
-32	25980	· SCREW, Round head							2	
-33	600981	· NUT, Hex							2	
-34	600735	· WASHER, Lock							2	
-35	620844	· CLAMP, Cable							1	
-36	620843	· BRACKET, Cable clamp							1	
-37	067265	· CABLE ASSEMBLY, Sound head							1	
-37A	611739	· PLUG, Male, octal							1	
-38	067263	· LEADWIRE ASSEMBLY, Knife-splice							1	
-39	600687	· SCREW, Round head							2	
-40	22442	· NUT, Hex							2	
-41	600789	· WASHER, Lock							2	
-42	611855	· WASHER, Flat							2	
-43	600698	· TERMINAL, Lug							1	
-44	067297	· SOCKET ASSEMBLY, Tube							1	
-45	600853	· SCREW, Round head							1	
-46	600789	· WASHER, Lock							1	
-47	613835	· COVER, Photocell							1	
-48	600833	· SCREW, Round head							4	
-49	611764	· WASHER, Lock							4	

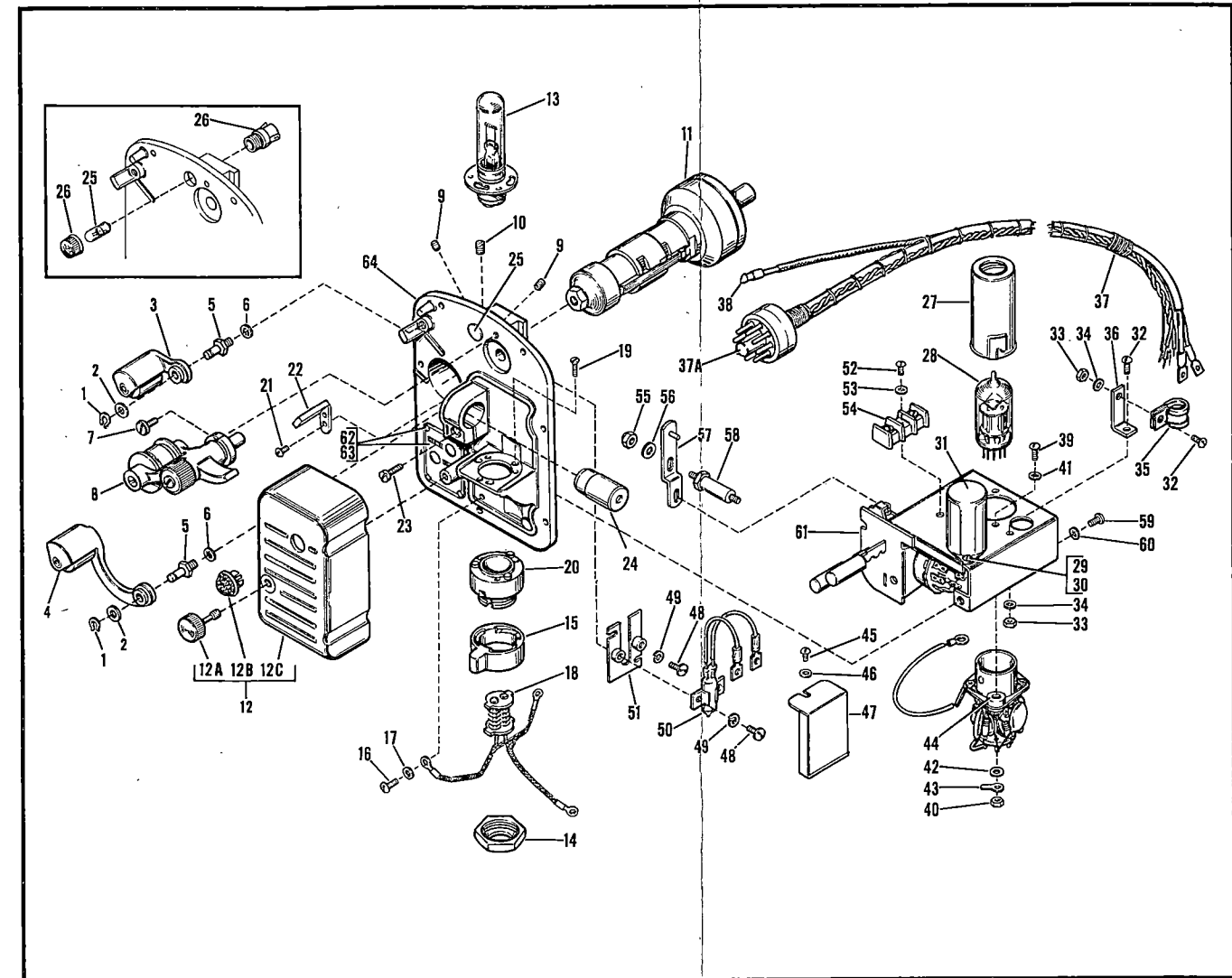


Figure 37. Sound Head Assembly (614CBM/CBRM only)

FIG. & INDEX NO.	PART NO.	DESCRIPTION	UNITS PER ASSY							USABLE ON CODE	
			1	2	3	4	5	6	7		
-50	061194	· PHOTOCELL ASSEMBLY								1	
-51	061199	· PLATE, Photocell mounting								1	
-52	620110	· SCREW, Round head								2	
-53	600789	· WASHER, Lock								2	
-54	620845	· BLOCK, Terminal								1	
-55	611453	· NUT, Elastic stop								2	
-56	610683	· WASHER, Plain								2	
-57	063805	· LEVER, Retracting								1	
-58	613843	· STUD, Lever pivot								1	
-59	600853	· SCREW, Round head								3	
-60	600789	· WASHER, Lock								3	
-61	063812	· CHASSIS SUBASSEMBLY (see Figure 38 for detail parts)								1	B
-61	063802	· CHASSIS SUBASSEMBLY (see Figure 38 for detail parts)								1	C
-62	600760	· PIN, Drive								4	
-63	613849	· NAMEPLATE, Magnetic reproduce								1	B
-63	620495	· NAMEPLATE, Magnetic Repro-Record								1	C
-64	613850	· PLATE, Sound head mounting								1	

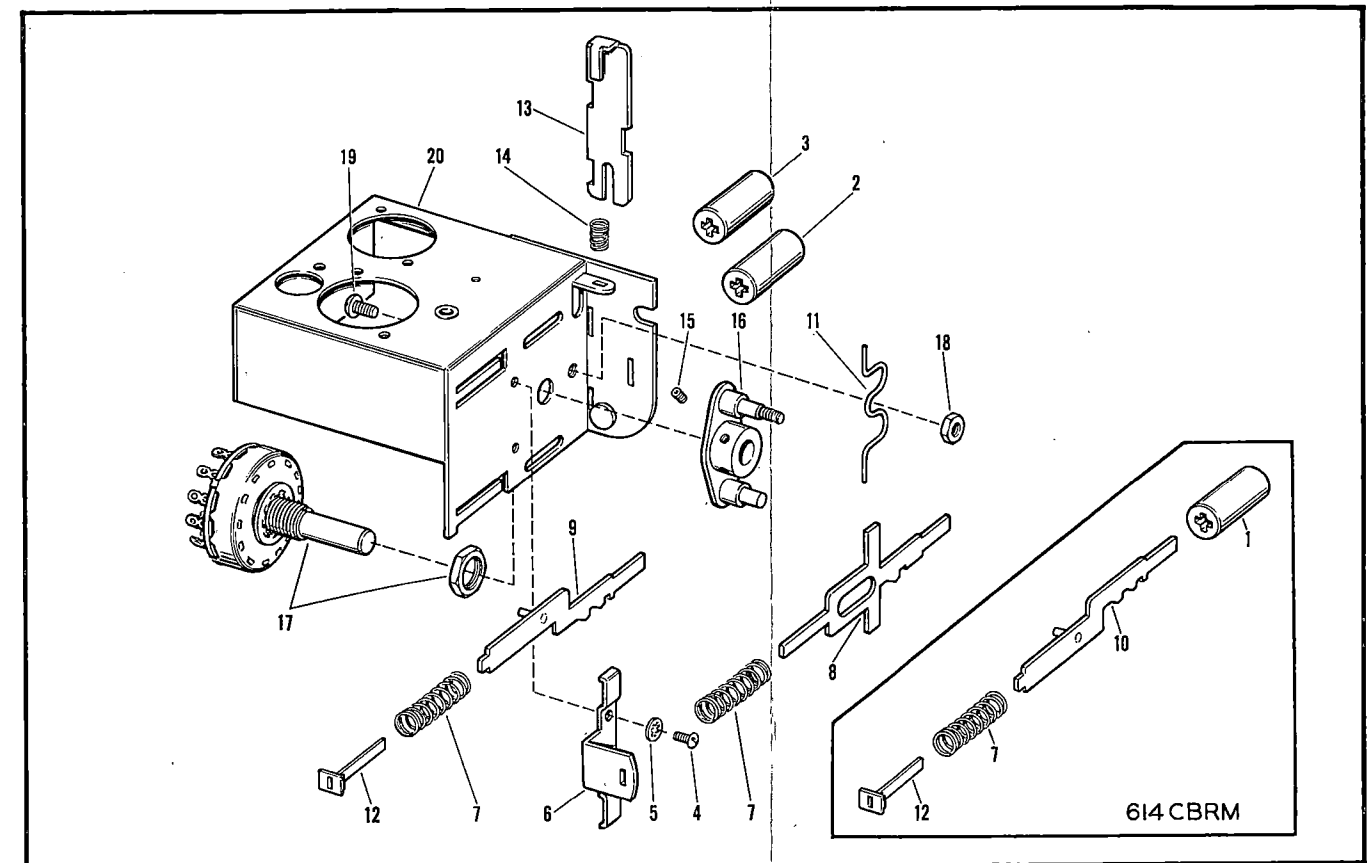


Figure 38. Sound Head Chassis Subassembly

FIG. & INDEX NO.	PART NO.	DESCRIPTION							UNITS PER ASSY	USABLE ON CODE
		1	2	3	4	5	6	7		
38-	063812	CHASSIS SUBASSEMBLY, Sound head							—	B
38-	063802	CHASSIS SUBASSEMBLY, Sound head							—	C
38-1	613851	. BUTTON, Push							1	C
-2	613852	. BUTTON, Push							1	
-3	613853	. BUTTON, Push							1	
-4	600830	. SCREW, Round head							2	
-5	610963	. WASHER, Lock							2	
-6	613838	. CLAMP, Selector arm							1	
-7	613855	. SPRING							2	B
-7	613855	. SPRING							3	C
-8	613837	. ARM, Magnetic selector							1	
-9	063807	. ARM, Record selector							1	C
-10	063808	. ARM, Optical selector							1	
-11	620847	. SPRING, Rubber							1	
-12	613854	. STRAP, Spring							1	B
-12	613854	. STRAP, Spring							2	C
-13	613839	. PLATE, Release and locking							1	
-14	613856	. SPRING							1	
-15	602416	. SETSCREW							2	
-16	063806	. PLATE, Switch							1	
-17	613857	. SWITCH, Rotary							1	
-18	600981	. NUT, Hex							1	
-19	25980	. SCREW, Round head							1	
-20	067298	. CHASSIS, Sound head							1	

FIG. & INDEX NO.	PART NO.	DESCRIPTION	UNITS							USABLE ON CODE			
			1	2	3	4	5	6	7				
39-	030012	MOTOR ASSEMBLY, Synchronous											
39-1	600881	SCREW, Fillister head										3	
-2	611932	WASHER, Lock										3	
-3	611285	SPACER, Upper screw										1	
-4	065196	HOUSING ASSEMBLY, Gear										1	
-4A	611405	COUPLING, Flexible drive (with set screws)										1	
-4B	611404	SPROCKET, Drive shaft										1	
-4C	600844	SCREW, Round head										5	
-4D	611734	WASHER, Lock										5	
-4E	061172	COVER, Gear housing										1	
-4F	065330	GEAR AND SHAFT ASSEMBLY, Driven										1	
-4G	065344	HOUSING ASSEMBLY, Gear										1	
-5	600996	NUT, Hex										4	
-6	600293	WASHER, Lock										2	
-7	600748	WASHER, Lock										2	
-8	601521	WASHER, Plain										2	
-9	620156	SCREW, Round head										2	
-10	600742	SCREW, Flat head										2	
-11	061986	BRACKET ASSEMBLY, Motor mounting										1	
-11A	612435	SCREW, Binding head										2	
-11B	600797	WASHER, Lock										2	
-11C	609051	WASHER, Plain										2	
-11D	061036	IDLER ASSEMBLY, Mechanical drive										1	
-11E	611801	BUSHING, Motor insulating										4	
-11F	611795	BRACKET, Motor mounting										1	
-12	600772	SCREW, Round head										1	
-13	600748	WASHER, Lock										1	
-14	061985	STRAP, Ground										1	
-15	600791	SCREW, Round head										3	
-16	99301	WASHER										3	
-17	300046	SCREW, Round head										1	
-18	300042	PLATE, Adapter										1	
-19	300048	SPACER, Adapter plate										4	
-20	620024	SCREW, Round head										4	
-21	600748	WASHER, Lock										4	
-22	601521	WASHER, Plain										4	
-23	613499	PLATE, Motor mounting										1	
-24	300043	SHIELD, Motor										1	
-25	030007	MOTOR ASSEMBLY										1	
-25A	98651	PIN, Motor drive gear										1	
-25B	300041	GEAR, Synchronous motor drive										1	
-25C	300040	MOTOR, Synchronous, 115V, 60 cycle 1/20 H. P.										1	
-26	600981	NUT, Hex										1	
-27	600805	SCREW, Round head										1	
-28	600735	WASHER, Lock										2	
-29	620000	SCREW, Round head										1	
-30	611428	CAPACITOR										1	
40-	067282	BOX ASSEMBLY, Reproduce - record relay											
40-1	620828	COVER											1
-2	600773	SCREW, Binder head											2
-3	600735	WASHER											2
-4	620829	CONNECTOR											1
-5	620831	RELAY											1
-6	620043	SCREW, Truss head Phillips drive											2
-7	600797	WASHER											2
-8	620833	SPACER											2
-9	067296	BOX ASSEMBLY, Fasteners and relay											1

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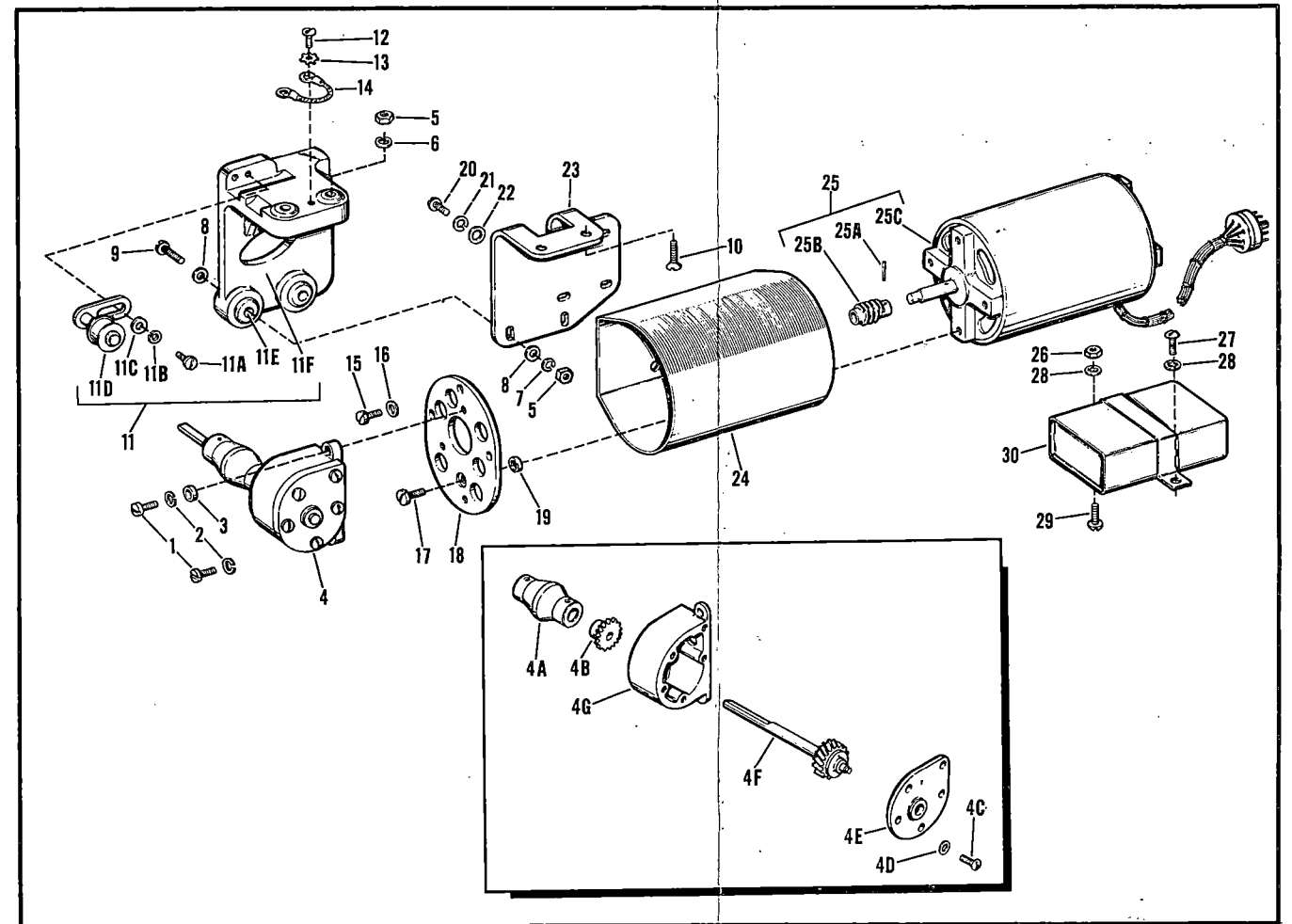


Figure 39. Synchronous Drive Motor Assembly

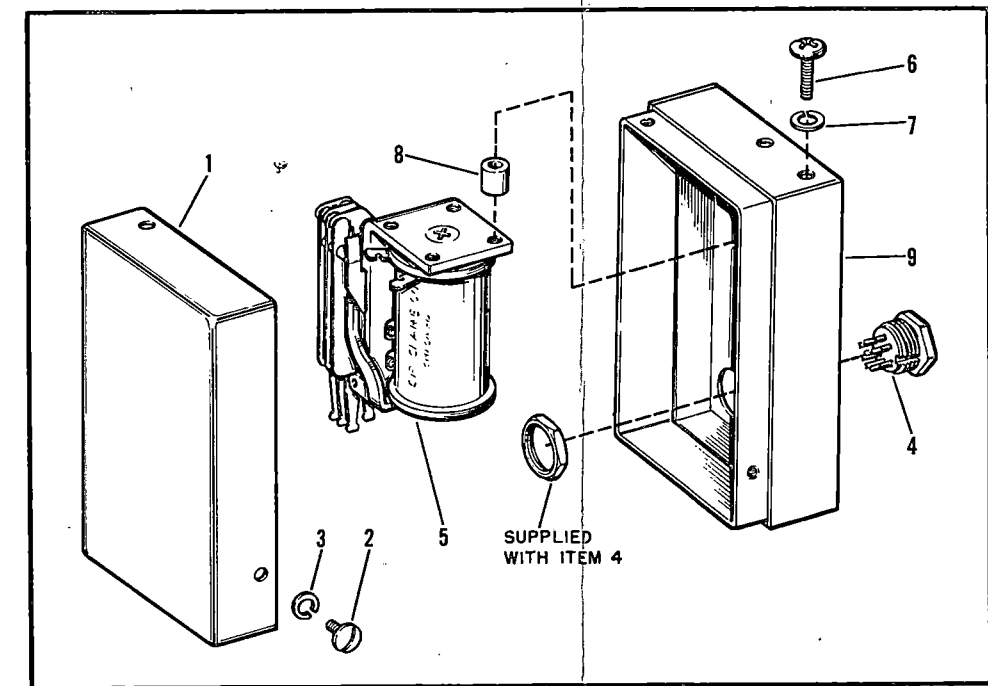


Figure 40. Reproduce-Record Relay Box Assembly