

# Disclaimer

This scanned document is provided as a courtesy. We make no representation for its accuracy. It is for use by qualified personnel only. There are high voltage and mechanical hazards present in this equipment. Do not attempt repair unless you are fully aware of the safety precautions to be taken. Use this information at your own risk.

[www.paulivester.com](http://www.paulivester.com)

# **PARTS CATALOG**

# **AUTOLOAD<sup>®</sup>**

# **FILMOSOUND<sup>®</sup> 16mm PROJECTOR**

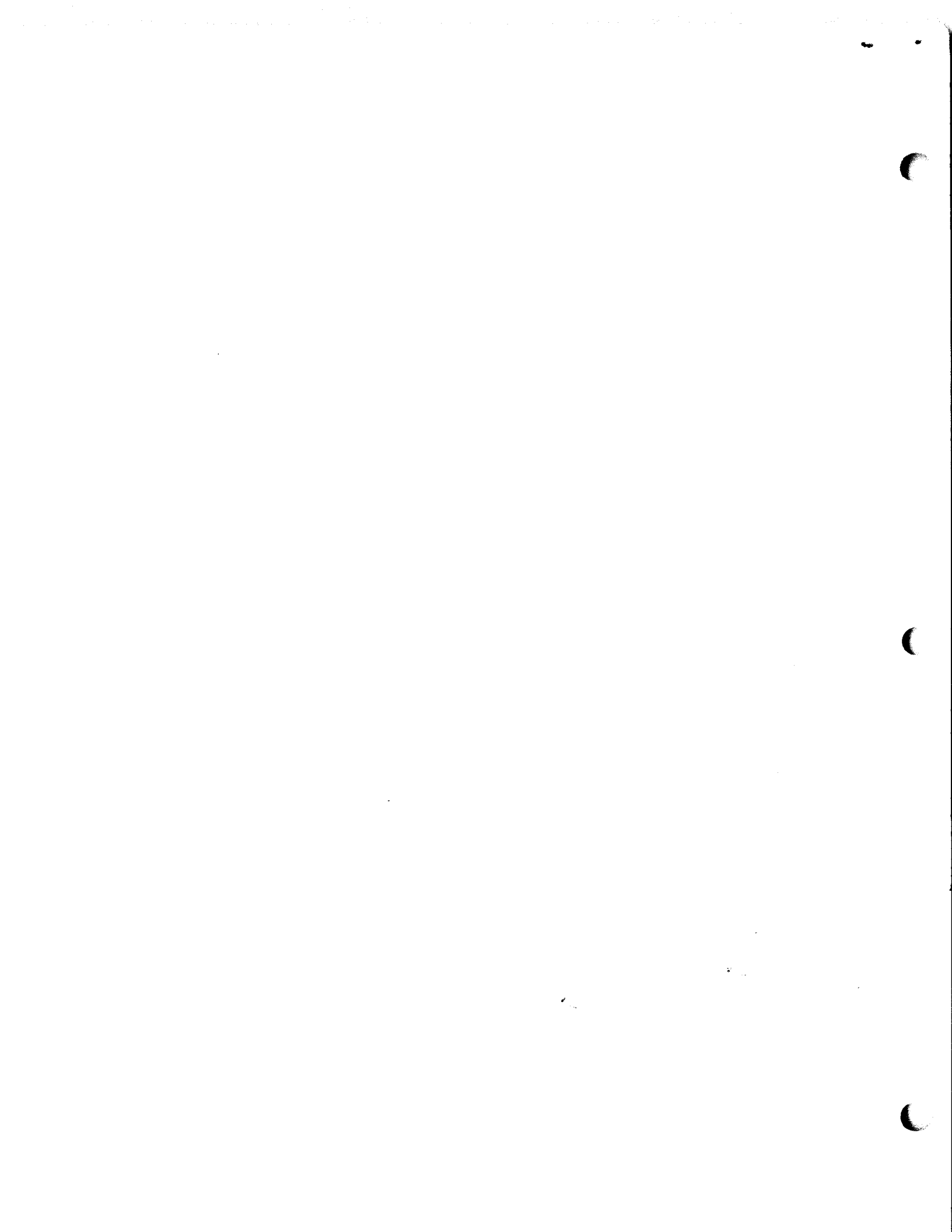
**(AUTOMATIC THREADING)**

**MODELS 2585, 2590, 2592**

© 1980 Bell & Howell Company  
All Rights Reserved.



**GENERAL SERVICE DEPT.  
7100 McCORMICK ROAD  
CHICAGO, ILLINOIS 60645**

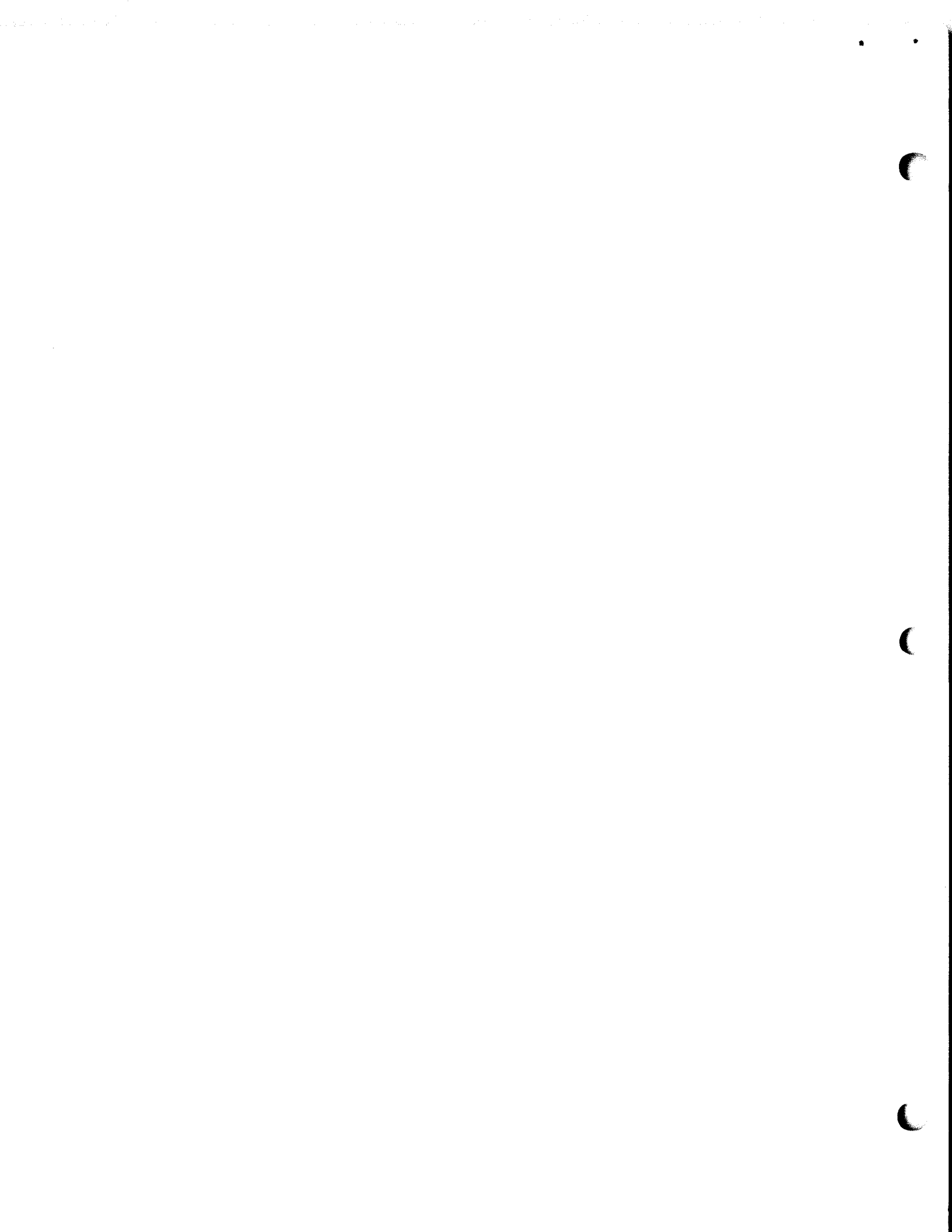


RECOMMENDED SPARE PARTS LIST  
 FOR REPAIR OF 50  
 MODEL 2585, 2590 AND 2592 AUTOMATIC THREADING  
 16MM SOUND PROJECTORS

REFERENCE: SERVICE MANUAL NO. 74421

PART NO.	DESCRIPTION	QTY
24047	Belt, Take-up - - - - -	6
34884	Lamp, Exciter, Type BAK - - - - -	6
44223	Lamp, Projector, Type BHB - - - - -	2
44459	Belt, Drive - - - - -	6
45695	Switch, Rotary - - - - -	1
49945	Switch, Rotary - - - - -	2
117172	Fuse, Slo-Blo, 4 amp - - - - -	6
305792	Fuse, Slo-Blo, 2 amp - - - - -	6
308638	Fuse, Slo-Blo, 3/4 amp - - - - -	6
710396	Lamp, Projector, Type ELC - - - - -	6
710660	Switch, Rotary - - - - -	2
707257	Motor, Drive - - - - -	1
015569	Photodiode Assembly - - - - -	1
015921	Thermal Fuse and Sleeve Assembly - - - - -	6
077195	PCB Amplifier Assembly - - - - -	2
077632	Thermal Fuse and Sleeve Assembly - - - - -	6
078577	PCB Amplifier Assembly - - - - -	2

Revised Dec.1980



# INTRODUCTION

The following pages illustrate and list, by part number and description, all replacement parts for the Bell & Howell Company Automatic Threading Filmosound Projectors listed below. Each projector has been assigned a code letter so that parts peculiar only to certain projectors in the group can be readily identified by reference to the "Usable on Code" column. If this column is blank, the listed part applies to all projectors.

The letters "NP" in the "Units per Assy" column indicate that the listed item is not procurable for replacement. In the case of assembled components (such as the aperture plate assembly, Figure 18), only the

piece parts will be available. Do not attempt to break down assembled components any further than is shown in these lists.

<u>MODEL</u>	<u>CODE</u>
2585A . . . . .	A
2585AML . . . . .	B
2585AX . . . . .	C
2585AXU . . . . .	D
2590A . . . . .	E
2592A . . . . .	F
2592AX . . . . .	G
2592ASX . . . . .	H

## AVAILABLE ACCESSORIES

	<u>Part Number</u>	<u>For Code</u>
400 Ft. Plastic Take-Up Reel . . . . .	710365	ACDEFGH
400 Ft. Metal Take-Up Reel . . . . .	710138	B
Lens Assembly, 2-inch, f/1.6 . . . . .	021254	AD
Lens Assembly, 2-inch, f/1.6 . . . . .	021257	AD
Lens Assembly, 2-inch, f/1.6 . . . . .	204641	BCEFGH
Anti-Theft Lens Kit . . . . .	021255	All Codes
Cord Connector . . . . .	710318	CGH
Microphone Kit . . . . .	043591	D
Line Cord . . . . .	078517	D

For additional Optional Accessories see current Audio Visual Products Catalogs.

## ORDER ACCESSORIES FROM:

Bell & Howell Company  
 Audio Products Division - Order Department  
 7100 North McCormick Road  
 Chicago, Illinois 60645

CODE	A	B	C	D	E	F	G	H
MODEL	2585A	2585AML	2585AX	2585AXU	2590A	2592A	2592AX	2592ASX

FIG. & INDEX NO.	PART NO.	DESCRIPTION							UNITS PER ASSY	USABLE ON CODE
		1	2	3	4	5	6	7		

NAMEPLATES AND LABELS

1-1	710475	LABEL, Still/Run (adhesive backed) . . . . .							1	FGH
-2	710442	NAMEPLATE, Handle (adhesive backed) . . . . .							1	ABCD
-2	710443	NAMEPLATE, Handle (adhesive backed) . . . . .							1	E
-2	710444	NAMEPLATE, Handle (adhesive backed) . . . . .							1	FGH
-3	710546	LABEL, Lamp type (adhesive backed) . . . . .							1	ABF
-3	710550	LABEL, Lamp type (adhesive backed) . . . . .							1	CDGH
-3	707231	LABEL, Lamp type (adhesive backed) . . . . .							1	E
-4	710645	NAMEPLATE, Instruction (adhesive backed) . . . . .							1	
-5	710474	NAMEPLATE, Lens carrier (adhesive backed) . . . . .							1	
-6	710455	NAMEPLATE, Volume/Tone (adhesive backed) . . . . .							1	ABCE
-6	710604	NAMEPLATE, Volume/Tone (adhesive backed) . . . . .							1	D
-6	710449	NAMEPLATE, Volume/Tone (adhesive backed) . . . . .							1	FGH
-7	44461	LABEL, Speed change warning (adhesive backed) . . . . .							1	AEF
-7	44490	LABEL, 50/60Hz (adhesive backed) . . . . .							1	BCDGH
-8	710454	NAMEPLATE, Model No. (see NOTE) . . . . .							1	
-9	710468	NAMEPLATE, Lamphouse (adhesive backed) . . . . .							1	ABF
-9	710495	NAMEPLATE, Lamphouse (adhesive backed) . . . . .							1	CDGH
-9	710607	NAMEPLATE, Lamphouse (adhesive backed) . . . . .							1	E
-10	708629	NAMEPLATE, Cord wrap (adhesive backed) . . . . .							1	AEF
-10	48191	NAMEPLATE, Cord wrap (adhesive backed) . . . . .							1	B
-10	710251	NAMEPLATE, Cord wrap (adhesive backed) . . . . .							1	CDGH
-11	710655	LABEL, Caution (adhesive backed) . . . . .							1	
-12	710653	NAMEPLATE, Threading (adhesive backed) . . . . .							1	

NOTE: This part is stamped with the unit model number. When ordering a replacement part include the complete model number of the customer's nameplate so that the replacement part can be stamped accordingly.

Automatic Threading  
16mm Projectors

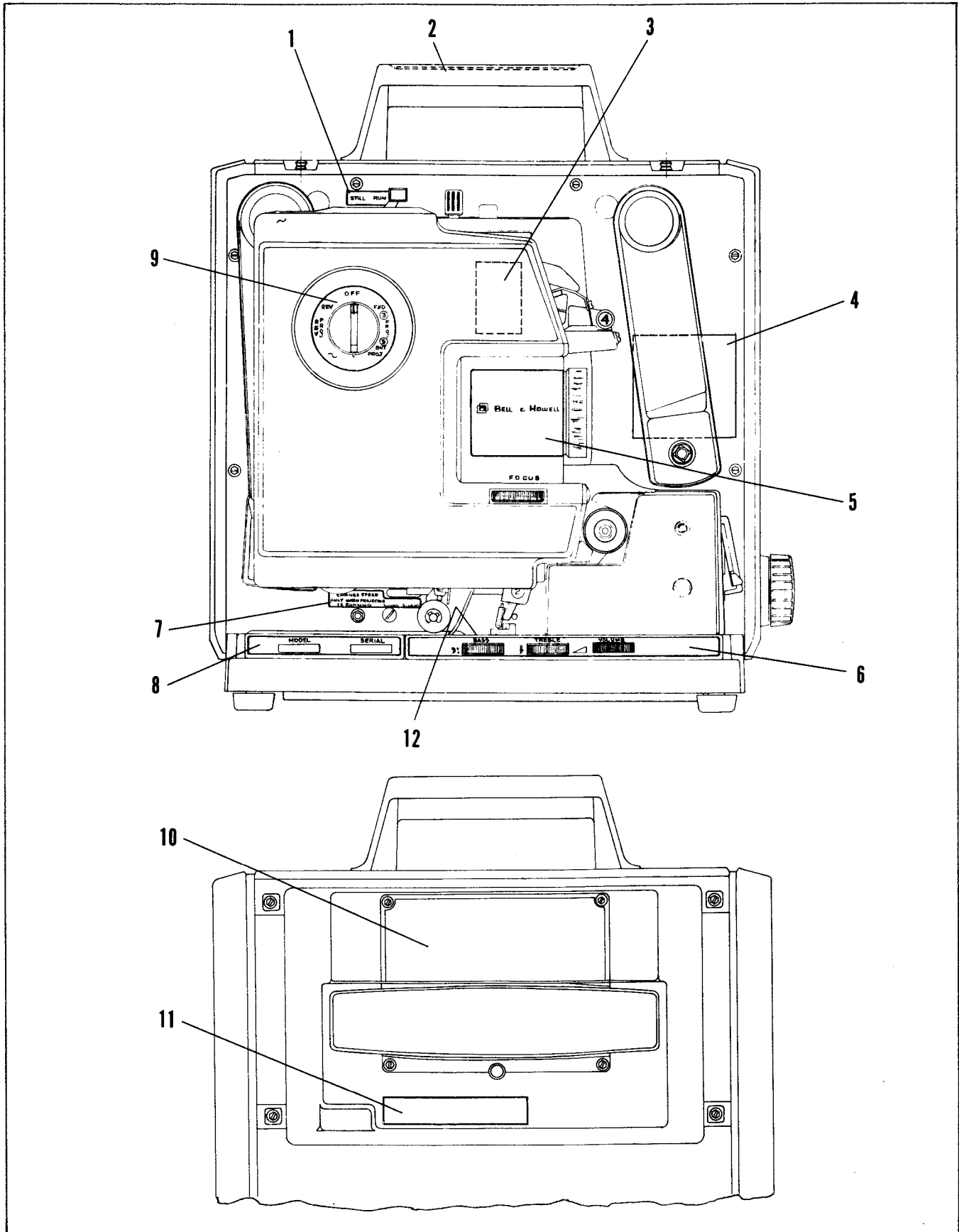
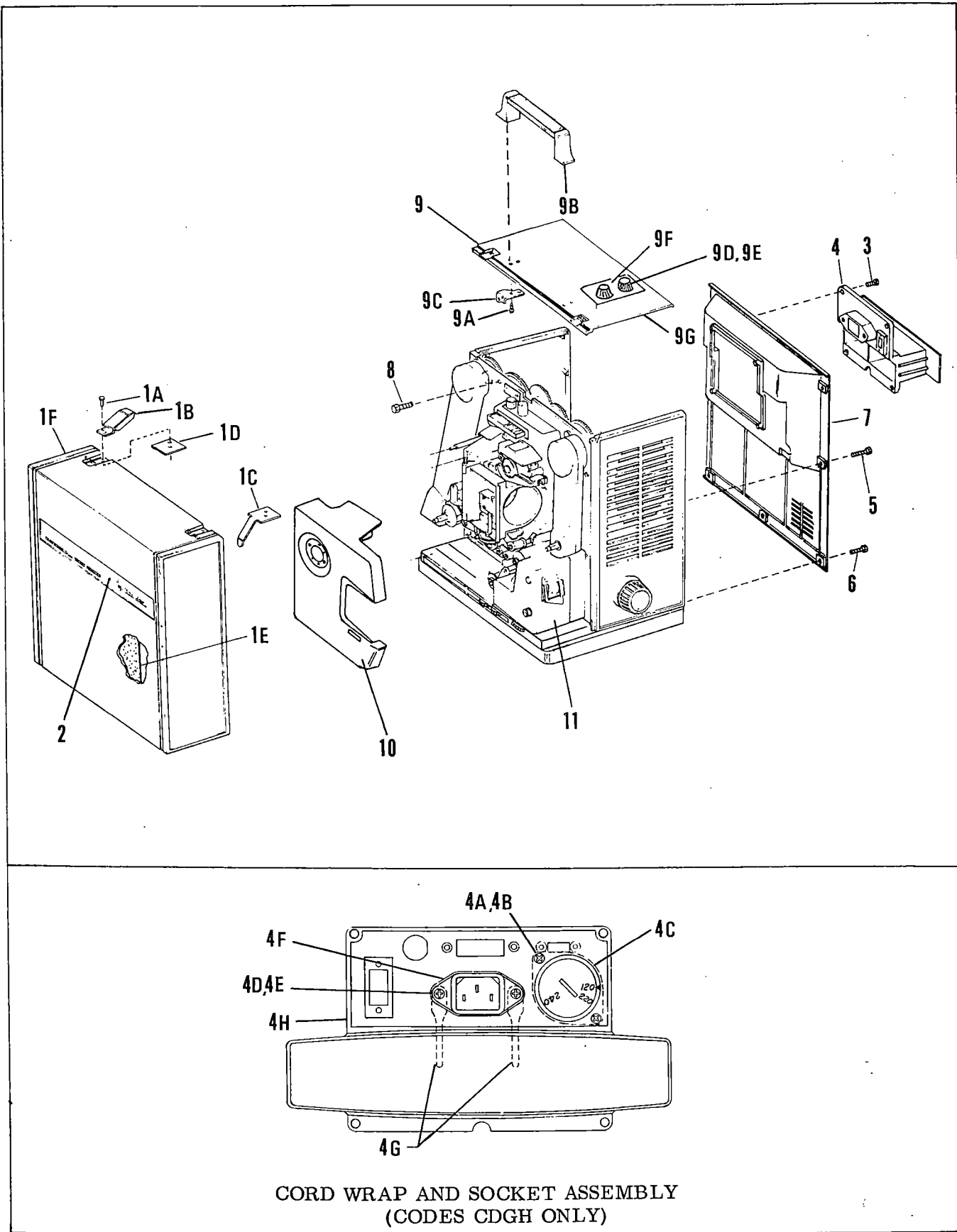


Figure 1. Nameplates and Labels



CODE	A	B	C	D	E	F	G	H
MODEL	2585A	2585AML	2585AX	2585AXU	2590A	2592A	2592AX	2592ASX

FIG. & INDEX NO.	PART NO.	DESCRIPTION							UNITS PER ASSY	USABLE ON CODE
		1	2	3	4	5	6	7		
PROJECTOR COVERS										
2-1	078146	COVER AND SPEAKERS ASSEMBLY, Front . . . . . (See Figure 19)							1	DH
-1	016684	COVER ASSEMBLY, Front . . . . .							1	ABCEFG
-1A	700816	. RIVET, Semi-tubular . . . . .							4	ABCEFG
-1B	45083	. LATCH, Cover release . . . . .							2	ABCEFG
-1C	49283	. SPRING, Latch, front . . . . .							1	ABCEFG
-1D	707751	. SPRING, Latch, rear . . . . .							1	ABCEFG
-1E	709196	. PAD, Front cover . . . . .							1	ABCEFG
-1F	No Number	. COVER, Front (replace with P/N 016684) . . . . .							NP	ABCEFG
-2	710456	NAMEPLATE, Front cover . . . . .							1	ABCEFG
-3	49638	SCREW, Hex washer head, 6-32 by 1/2 inch . . . . .							4	
-4	48186	CORD WRAP . . . . .							1	ABEF
-4	710483	CORD WRAP (Canada only) . . . . .							1	AF
-4	078153	CORD WRAP AND SOCKET ASSEMBLY . . . . .							1	CDGH
-4A	436949	. SCREW, Phillips head, M3 by 10.0 . . . . .							2	CDGH
-4B	436950	. NUT, Hex, M3 . . . . .							2	CDGH
-4C	077606	. VOLTAGE SELECTOR . . . . .							1	CDGH
-4D	434198	. SCREW, Phillips binding head, M3 by 16.0 . . . . .							2	CDGH
-4E	436950	. NUT, Hex, M3 . . . . .							2	CDGH
-4F	709737	. SOCKET, Input . . . . .							1	CDGH
-4G	072848	. TIE WRAP, Leadwire . . . . .							2	CDGH
-4H	710496	. CORD WRAP . . . . .							1	CDGH
-5	49637	SCREW, Rear cover, upper . . . . .							4	
-6	49275	SCREW, Rear cover, lower . . . . .							3	
-7	48190	COVER, Rear . . . . .							1	
-7	710484	COVER, Rear (Canada only) . . . . .							1	AF
-8	49638	SCREW, Hex washer head, 6-32 by 1/2 inch . . . . .							2	
-9	078586	TOP COVER AND STRIKER ASSEMBLY . . . . .							1	A, C-H
-9	078587	TOP COVER AND STRIKER ASSEMBLY . . . . .							1	B
-9	016534	TOP COVER AND STRIKER ASSEMBLY (Canada only)							1	AF
-9	078586	TOP COVER AND HANDLE ASSEMBLY . . . . .							1	A, C-H
-9	078587	TOP COVER AND HANDLE ASSEMBLY . . . . .							1	B
-9A	707449	. SCREW, Hex washer head tapping, 8-18 . . . . .							4	A, C-H
-9A	30816	. SCREW, Hex washer head, 8-32 by 5/8 inch . . . . .							4	B
-9B	48052	. HANDLE, Carrying . . . . .							1	
-9C	48063	. BRACKET, Cover mounting . . . . .							2	
-9D	47203	. FUSE, Slo-blo, 5 amp . . . . .							2	B
-9E	709827	. FUSEHOLDER . . . . .							2	B
-9F	707183	. LABEL, Fuse (adhesive backed) . . . . .							1	B
-9G	No Number	. COVER, Top (order complete cover assembly) . . . . .							NP	A, C-H
-9G	No Number	. COVER, Top (order complete cover assembly) . . . . .							NP	B
-10	(See Fig. 10)	LAMPHOUSE COVER ASSEMBLY (See Figure 10 . . . . . for replacement parts)							1	
-11	No Number	COVER ASSEMBLY, Exciter lamp (see Figure 13 . . . . . for replacement parts)							NP	



CORD WRAP AND SOCKET ASSEMBLY  
(CODES CDGH ONLY)

Figure 2. Projector Covers

CODE	A	B	C	D	E	F	G	H
MODEL	2585A	2585AML	2585AX	2585AXU	2590A	2592A	2592AX	2592ASX

FIG. & INDEX NO.	PART NO.	DESCRIPTION							UNITS PER ASSY	USABLE ON CODE
		1	2	3	4	5	6	7		
END CAPS AND LAMP COMPONENTS										
3-1	36769	SETSCREW, Fluted socket cup pt, 8-32 by 1/4 inch							1	
-2	09807	TILT KNOB ASSEMBLY . . . . .							1	
-3	49637	SCREW, Hex washer head, 6-32 by 3/4 inch . . . . .							4	
-4	078137	END CAP ASSEMBLY, Front . . . . .							1	
-4	078140	END CAP ASSEMBLY, Front (Canadian only) . . . . .							1	AF
-4A	45102	. NUT, Sheet metal . . . . .							4	
-4B	708994	. SPEAKER, 8-ohm . . . . .							1	
-4C	709218	. NUT, Speed . . . . .							6	
-4D	710482	. END CAP, Front . . . . .							1	
-4D	48187	. END CAP, Front (Canadian only) . . . . .							1	AF
-5	078139	END CAP ASSEMBLY, Rear . . . . .							1	A-E, GH
-5	078138	END CAP ASSEMBLY, Rear (Canadian only) . . . . .							1	A
-5	078134	END CAP ASSEMBLY, Rear . . . . .							1	F
-5	078136	END CAP ASSEMBLY, Rear (Canadian only) . . . . .							1	F
-5A	709218	. NUT, Speed . . . . .							6	
-5B	19010	. NUT, Hex locking (included with -5D) . . . . .							1	
-5C	25368	. WASHER, Insulating (included with -5D) . . . . .							1	
-5D	43878	. JACK, Auxiliary speaker (includes 5B, 5C) . . . . .							1	
-5E	44298	. RIVET, Semi-tubular . . . . .							2	F
-5F	44587	. RECEPTACLE . . . . .							1	F
-5G	710427	. PLATE, Decorative (adhesive backed) . . . . .							1	A-E, GH
-5G	710467	. PLATE, Decorative (adhesive backed) . . . . .							1	F
-5H	710481	. END CAP, Rear . . . . .							1	
-5H	48188	. END CAP, Rear (Canadian only) . . . . .							1	AF
-6	710465	KNOB, Master switch . . . . .							1	
-7	49638	SCREW, Hex washer head, 6-32 by 1/2 inch . . . . .							4	
-8	710396	LAMP, Projection, Type ELC, 24V/250W . . . . .							1	A-D, FGH
-8	44223	LAMP, Projection, Type BHB, 120V/250W . . . . .							1	E
-9	710507	SOCKET, Lamp . . . . .							1	A-D, FGH
-9	016651	SOCKET ASSEMBLY, Lamp . . . . .							1	E
-9A	30808	SCREW, Hex washer head, 6-32 by 5/16 inch . . . . .							2	E
-9B	707075	SHIELD, Lamp . . . . .							1	E
-10	710845	STRAIN RELIEF, Lamp socket leads . . . . .							1	A-D, FGH

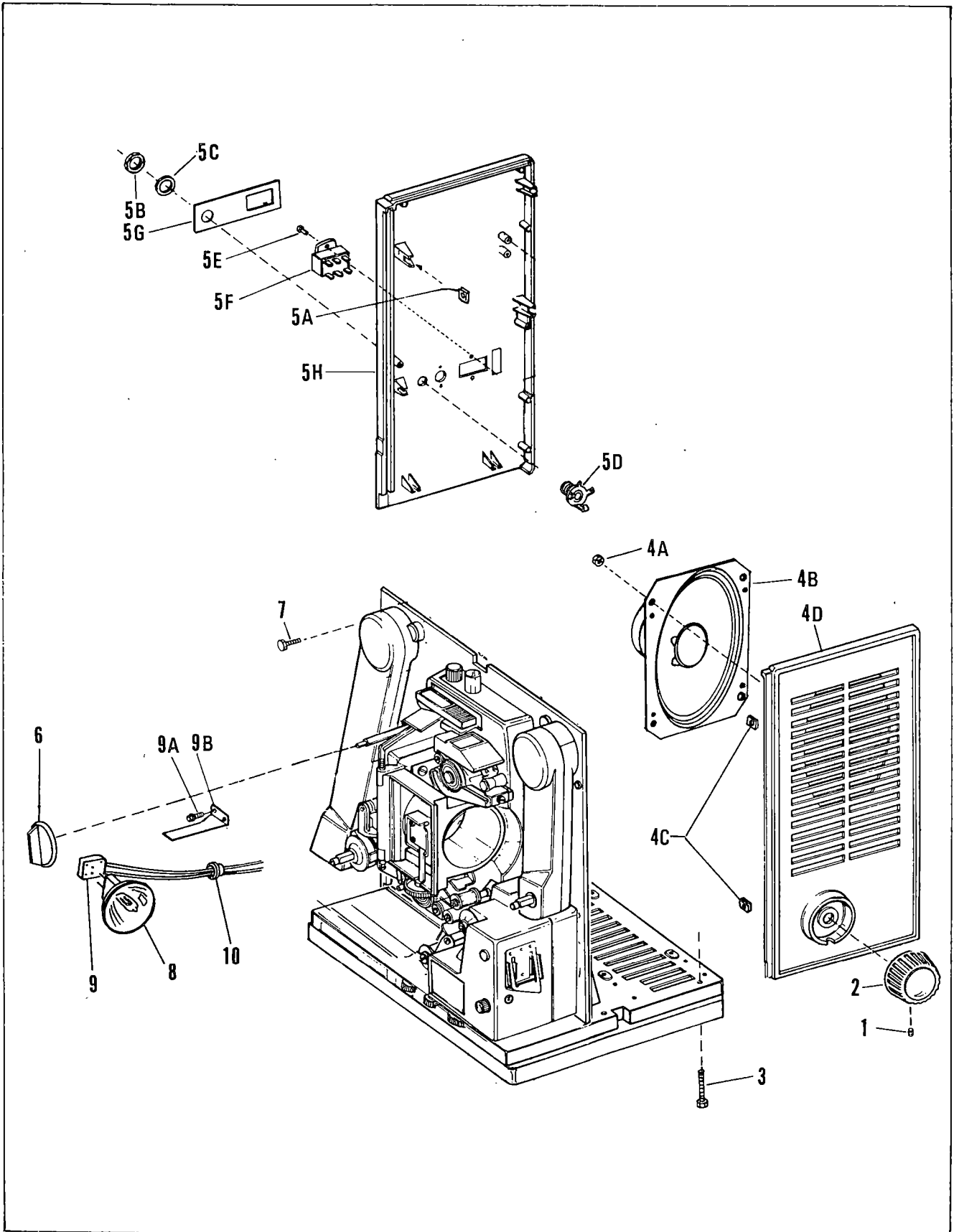


Figure 3. End Caps and Lamp Components

CODE	A	B	C	D	E	F	G	H
MODEL	2585A	2585AML	2585AX	2585AXU	2590A	2592A	2592AX	2592ASX

FIG. & INDEX NO.	PART NO.	DESCRIPTION	UNITS PER ASSY							USABLE ON CODE
			1	2	3	4	5	6	7	
PROJECTOR ELECTRICAL COMPONENTS										
4-1	308638	FUSE, Slo-Blo, 0.75 amp							1	ABEF
-1	117172	FUSE, Slo-Blo, 4.0 amp							1	CDGH
-2	44586	FUSEHOLDER							1	ABEF
-2	710308	FUSEHOLDER							1	CDGH
-3	014573	SWITCH ASSEMBLY, Animation							1	F
-3A	44536	. RIVET, Tubular							2	F
-3B	88672	. SWITCH, Animation							1	F
-3C	No Number	. BRACKET, Animation switch (order complete switch assembly)							NP	F
-4	30809	SCREW, Hex washer head, 6-32 by 3/8 inch							2	
-5	078589	SWITCH ASSEMBLY, Rotary							1	BF
-5	078594	SWITCH ASSEMBLY, Rotary							1	CDGH
-5A	44467	. NUT, Hex locking							1	
-5B	600736	. LOCKWASHER, Internal tooth							1	
-5C	44335	. BRACKET, Rotary switch							1	
-5D	710662	. SWITCH, Rotary							1	A
-5D	710660	. SWITCH, Rotary							1	BCDFGH
-5D	710663	. SWITCH, Rotary							1	E
-6	30817	SCREW, Hex washer head, 8-32 by 1/2 inch							2	
-7	30815	SCREW, Pan washer head, 8-32 by 3/8 inch							2	
-8	016581	POWER/LAMP TRANSFORMER ASSEMBLY (See Figure 9A for replacement parts)							1	AF
-8	016626	POWER/LAMP TRANSFORMER ASSEMBLY (See Figure 9A for replacement parts)							1	B
-8	077631	POWER TRANSFORMER ASSEMBLY (See Figure 9B for replacement parts)							1	CDGH
-8	078123	POWER TRANSFORMER ASSEMBLY (See Figure 9C for replacement parts)							1	E
-9	30810	SCREW, Hex washer head, 6-32 by 1/2 inch							3	
-10	072848	WIRE CLAMP							1	
-11	30809	SCREW, Hex washer head, 6-32 by 3/8 inch							2	
-12	44377	BLOWER HOUSING, Right-hand							1	
-13	80408	SETSCREW, Fluted socket flat pt, 6-32 by 3/16 inch							2	
-14	014538	FAN ASSEMBLY, Blower							1	
-15	44459	BELT, Drive							1	
-16	30809	SCREW, Hex washer head, 6-32 by 3/8 inch							2	
-17	44376	BLOWER HOUSING, Left-hand							1	
-18	30822	SCREW, Hex washer head, 10-32 by 7/16 inch							1	
-19	709659	LOCKWASHER, Internal tooth, No. 10							1	
-20	016608	LINE CORD ASSEMBLY							1	AEF
-20	016434	LINE CORD ASSEMBLY							1	B
-20	078517	LINE CORD ASSEMBLY							1	CDGH
-21	44439	LUG							1	
-22	707281	CAPACITOR, Motor start							1	AEF
-22	708457	CAPACITOR, Motor start							1	BCDGH
-23	015921	FUSE AND SLEEVE ASSEMBLY, Thermal							1	ABEF
-23	077632	FUSE AND SLEEVE ASSEMBLY, Thermal							1	CDGH
-24	80408	SETSCREW, Fluted socket flat pt, 6-32 by 3/16 inch							2	
-25	*44433	PULLEY, Motor (alternate P/N 44457 or 44458)							1	AEF
-25	*709524	PULLEY, Motor (alternate P/N 709549 or 709550)							1	BCDGH
-26	30822	SCREW, Hex washer head, 10-32 by 7/16 inch							4	
-27	44356	BRACKET, Motor mounting							2	
-27A	41323	STRAP, Motor bracket (includes screw and nut)							2	
-28	707257	MOTOR, Drive (alternate P/N 709107)							1	
-29	077959	BRACKET ASSEMBLY, Capacitor							1	AEF
-29	077961	BRACKET ASSEMBLY, Capacitor							1	BCDGH
-30	36763	SETSCREW, Fluted socket cup pt, 6-32 by 1/8 inch							2	F
-31	36533	COLLAR, Solenoid rod							2	F
-32	45575	SCREW, Binding head, 6-32 by 7/16 inch							3	F
-33	33285	WASHER, Spacer							3	F
-34	31489	BUSHING, Rubber							3	F
-35	016584	SOLENOID ASSEMBLY, Animation							1	F
-35A	700103	. SCREW, Slotted binding head, 10-32 by 1/4 inch							2	F
-35B	44328	. PLATE, Solenoid mounting							1	F
-36	408610	BUSHING, Strain relief (Heyco)							1	

\*If motor pulley (item -25) must be replaced, be sure to replace with a pulley of identical color.

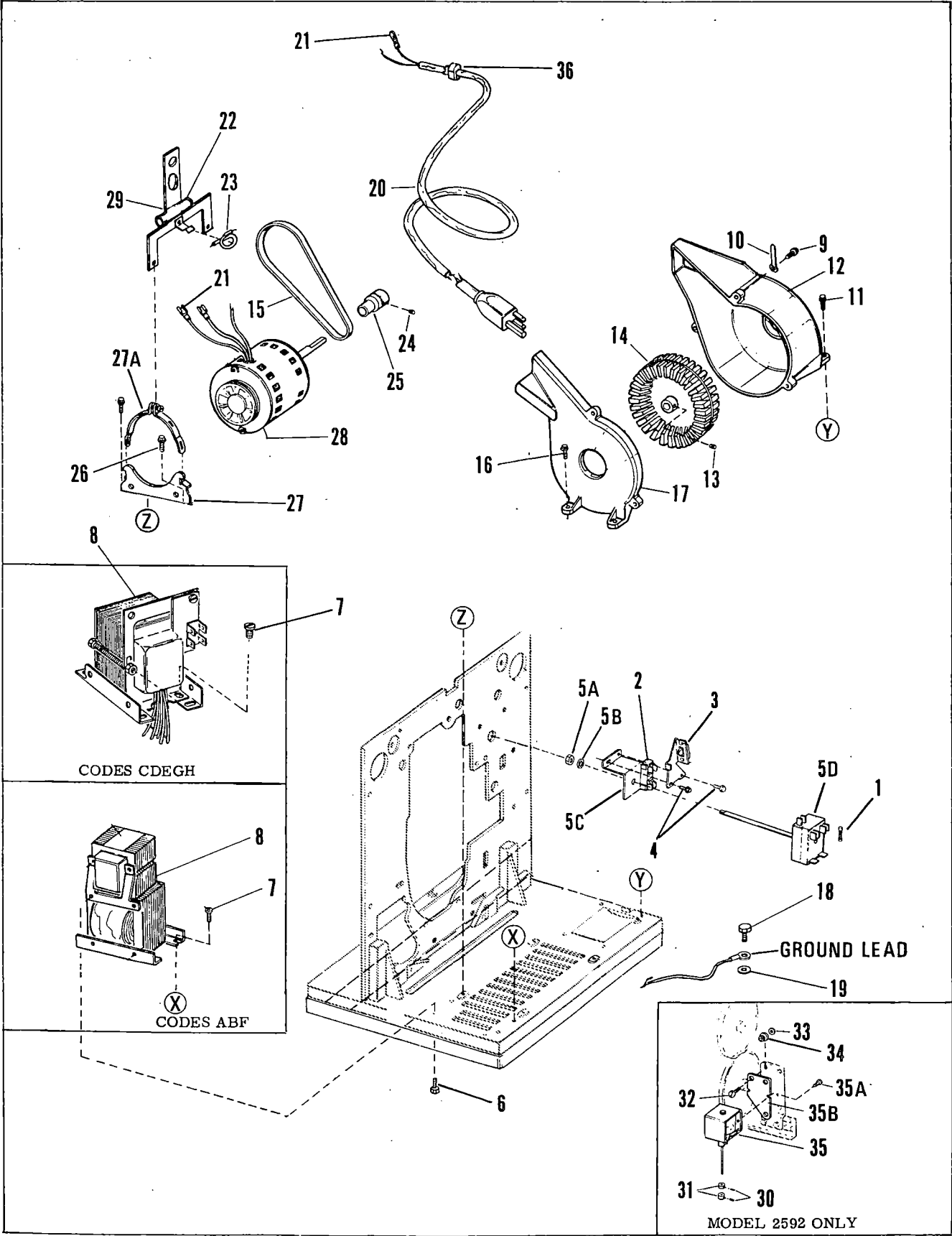


Figure 4. Projector Electrical Components  
Revised Dec. 1980

CODE	A	B	C	D	E	F	G	H
MODEL	2585A	2585AML	2585AX	2585AXU	2590A	2592A	2592AX	2592ASX

FIG. & INDEX NO.	PART NO.	DESCRIPTION							UNITS PER ASSY	USABLE ON CODE
		1	2	3	4	5	6	7		
GEARS, REEL ARMS AND SOUNDHEAD										
5-1	765777	RING, Retaining, external, 0.250 inch ID . . . . .							4	
-2	014947	GEAR AND BEARING ASSEMBLY . . . . .							1	
-3	34861	WASHER, Flat . . . . .							AR	
-4	44370	GEAR, Idler . . . . .							2	
-5	31029	WASHER, Flat . . . . .							2	
-6	30211	RING, Retaining, grip-type . . . . .							1	
-7	39092	WASHER, Spring tension, bowed . . . . .							1	
-8	45581	WASHER, Thrust . . . . .							1	
-9	44371	GEAR, Spur . . . . .							1	
-10	47137	WASHER, Friction . . . . .							1	
-11	014527	IDLER ASSEMBLY, Arm and gear . . . . .							1	
-11A	765777	. RING, Retaining, external, 0.250 inch ID . . . . .							1	
-11B	44370	. GEAR, Spur . . . . .							1	
-11C	014526	. ARM ASSEMBLY, Idler . . . . .							1	
-12	44312	KEY, Gear-retaining . . . . .							1	
-13	44317	WASHER, Flat . . . . .							1	
-14	015919	CLUTCH ASSEMBLY, Rewind . . . . .							1	
-15	765777	RING, Retaining, external, 0.250 inch ID . . . . .							1	
-16	016394	CLUTCH AND BEARING ASSEMBLY, Take-up . . . . .							1	
-17	707112	GEAR, Clutch . . . . .							1	
-18	707110	GEAR, Rewind . . . . .							1	
-19	44312	KEY, Gear retaining . . . . .							1	
-20	36083	RING, Retaining, external, 0.250 inch ID . . . . .							1	
-21	1953	WASHER, Flat . . . . .							1	
-22	44372	GEAR, Idler . . . . .							1	
-23	44537	SPRING, Torsion . . . . .							1	
-24	014530	LEVER AND GEAR ASSEMBLY, Rewind . . . . .							1	
-24A	36083	. RING, Retaining external, 0.250 inch ID . . . . .							2	
-24B	44486	. WASHER, Flat . . . . .							1	
-24C	44373	. GEAR, Spur . . . . .							2	
-24D	014529	. LEVER ASSEMBLY, Rewind . . . . .							1	
-25	30809	SCREW, Hex washer head, 6-32 by 3/8 inch . . . . .							6	
-26	44313	DISC, Reel arm . . . . .							2	
-27	078106	REEL ARM ASSEMBLY, Front (see Figure 11 for . . . . . detail parts)							1	
-28	078107	REEL ARM ASSEMBLY, Rear (see Figure 12 for . . . . . detail parts)							1	
-29	078108	BUTTON ASSEMBLY, Reel arm lock . . . . .							2	
-30	44507	SPRING, Lock button . . . . .							2	
-31	765777	RING, Retaining, external, 0.250 inch ID . . . . .							1	
-32	45581	WASHER, Flat . . . . .							1	
-33	44512	WASHER, Bowed . . . . .							1	
-34	31592	FLYWHEEL . . . . .							1	
-35	31491	SCREW, Binding head, 8-32 by 1/2 inch . . . . .							3	
-36	31243	WASHER, Flat . . . . .							3	
-37	No Number	SOUNDHEAD ASSEMBLY (See Figure 13 for parts) . . . . .							NP	
-38	710471	DECAL, No. 1 (adhesive backed) . . . . .							NP	
G	070047	GREASE								
L	070041	OIL								

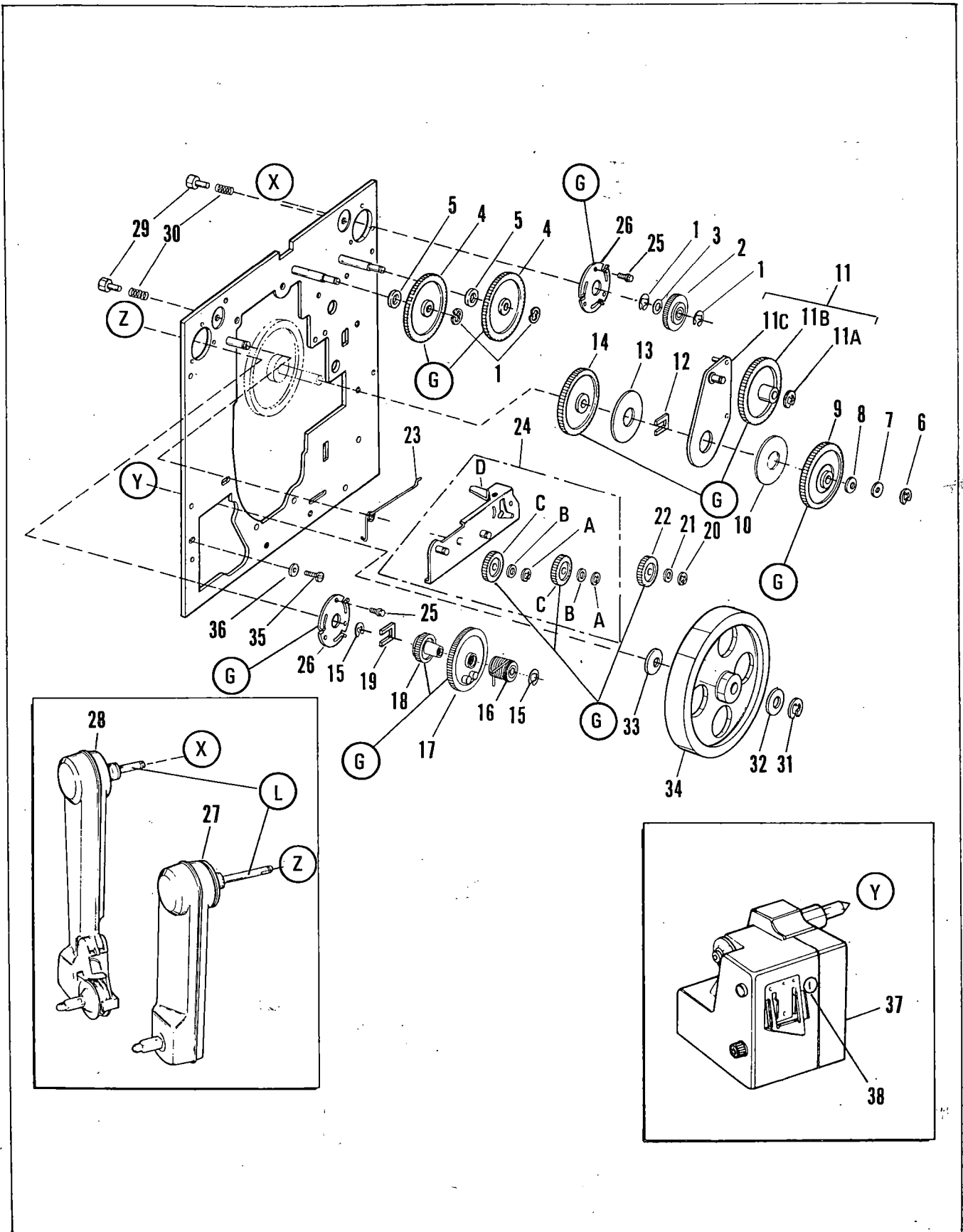


Figure 5. Gears, Reel Arms and Soundhead



CODE	A	B	C	D	E	F	G	H
MODEL	2585A	2585AML	2585AX	2585AXU	2590A	2592A	2592AX	2592ASX

FIG. & INDEX NO.	PART NO.	DESCRIPTION							UNITS PER ASSY	USABLE ON CODE
		1	2	3	4	5	6	7		
RUN-STILL LINKAGE AND MECHANISM ASSEMBLY										
6-1	36763	SETSCREW, Fluted socket cup pt, 6-32 by 1/8 inch .							2	FGH
-2	36533	COLLAR . . . . .							2	FGH
-3	48176	SPRING . . . . .							1	FGH
-4	44516	ROD, Still-Run . . . . .							1	FGH
-5	36763	SETSCREW, Fluted socket cup pt, 6-32 by 1/8 inch .							1	FGH
-6	36533	COLLAR . . . . .							1	FGH
-7	44395	SPRING . . . . .							1	FGH
-8	710508	ROD, Fire shutter . . . . .							1	FGH
-9	709040	LEVER, Still/Run . . . . .							REF	
-10	44424	SCREW, Shoulder . . . . .							2	FGH
-11	014539	LINK ASSEMBLY, Sliding . . . . .							1	FGH
-12	44427	SPACER . . . . .							2	FGH
-13	44429	SCREW, Pivot . . . . .							1	FGH
-14	765449	RING, Retaining, external, 0.188 inch ID . . . . .							1	FGH
-15	700710	WASHER, Flat . . . . .							1	FGH
-16	014547	LINK ASSEMBLY, Pivoting . . . . .							1	FGH
-17	44430	SPACER . . . . .							1	FGH
-18	44514	SPRING, Torsion . . . . .							1	FGH
-19	700710	WASHER, Flat . . . . .							1	FGH
-20	31245	RING, Retaining, external, 0.187 inch ID . . . . .							2	
-21	44526	SPRING, Torsion . . . . .							1	
-22	44294	STUD, Shoulder . . . . .							2	
-23	014579	BRACKET ASSEMBLY, Belt shifter . . . . .							1	
-24	47408	SPACER . . . . .							2	
-25	709679	BELT, Drive motor . . . . .							1	

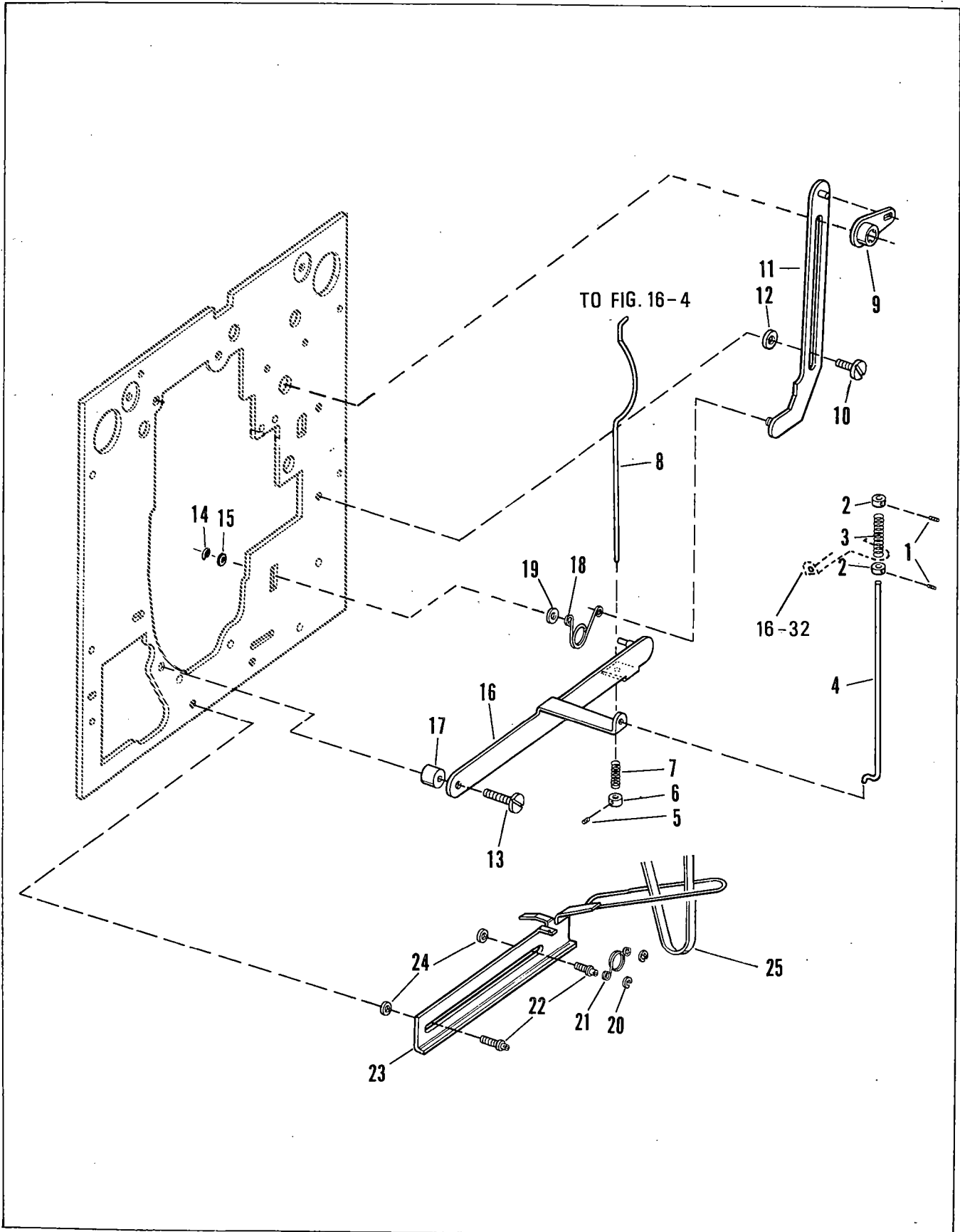


Figure 6. Run-Still Linkage and Mechanism

CODE	A	B	C	D	E	F	G	H
MODEL	2585A	2585AML	2585AX	2585AXU	2590A	2592A	2592AX	2592ASX

FIG. & INDEX NO.	PART NO.	DESCRIPTION	UNITS PER ASSY	USABLE ON CODE		
					1	2

PROJECTOR BASE ELECTRICAL COMPONENTS

7-1	766395	SCREW, Hex washer head, 6-32 by 5/16 inch . . . .	4	
-2	48078	COVER, Volume/Tone controls . . . . .	1	
-3	708237	PLUG, Hole . . . . .	1	
-4	766395	SCREW, Hex washer head, 6-32 by 5/16 inch . . . .	5	
-5	48069	COVER, Amplifier . . . . .	1	
-5A	710655	LABEL, Caution (adhesive backed) . . . . .	1	
-5B	078585	SHIELD ASSEMBLY, Hum . . . . .	1	DFGH
-6	30808	SCREW, Hex washer head, 6-32 by 5/16 inch . . . .	2	
-7	30811	SCREW, Hex washer head, 6-32 by 5/8 inch . . . .	3	
-8	47974	SPACER, Sleeve . . . . .	3	
-9	016590	EDGE CONNECTOR, Amplifier . . . . .	1	ABE
-9	077653	EDGE CONNECTOR, Amplifier . . . . .	1	C
-9	078565	EDGE CONNECTOR, Amplifier . . . . .	1	F
-9	078566	EDGE CONNECTOR, Amplifier . . . . .	1	DGH
-10	077195	AMPLIFIER ASSEMBLY (See NOTE A) . . . . .	1	ABCE
-10	078577	AMPLIFIER ASSEMBLY (See NOTE A) . . . . .	1	DFGH
-11	766395	SCREW, Hex washer head, 6-32 by 5/16 inch . . . .	4	
-12	016613	VOLUME/TONE CONTROLS ASSEMBLY . . . . .	1	ABC E
-12	078561	VOLUME/TONE CONTROLS ASSEMBLY . . . . .	1	DFGH
-12A	48074	. KNOB, Control . . . . .	2	ABCDE
-12A	48074	. KNOB, Control . . . . .	3	FGH
-12B	48075	. TRIMPLATE, Volume (adhesive backed) . . . . .	1	DFGH
-12C	48076	. TRIMPLATE, Control knobs (adhesive backed) . .	1	ABCDE
-12C	48076	. TRIMPLATE, TREBLE/VOLUME (adhesive backed)	2	FGH
-12D	48088	. CONTROL, Volume, 50K . . . . .	1	ABCDE
-12D	710623	. CONTROL, Volume, 100K . . . . .	1	FGH
-12E	710622	. CONTROL, Bass, 5K . . . . .	1	FGH
-12F	48089	. CONTROL, Tone, 250K . . . . .	1	ABCDE
-12G	710624	. CONTROL, Treble, 500K . . . . .	1	FGH
-13	30816	SCREW, Hex washer head, 8-32 by 5/8 inch . . . .	4	
-14	44462	WASHER, Flat . . . . .	4	
-15	44532	FOOT, Rubber . . . . .	4	

NOTE A: Part number listed is for a NEW amplifier assembly. For a REBUILT amplifier assembly add a (-001) to the appropriate part number.

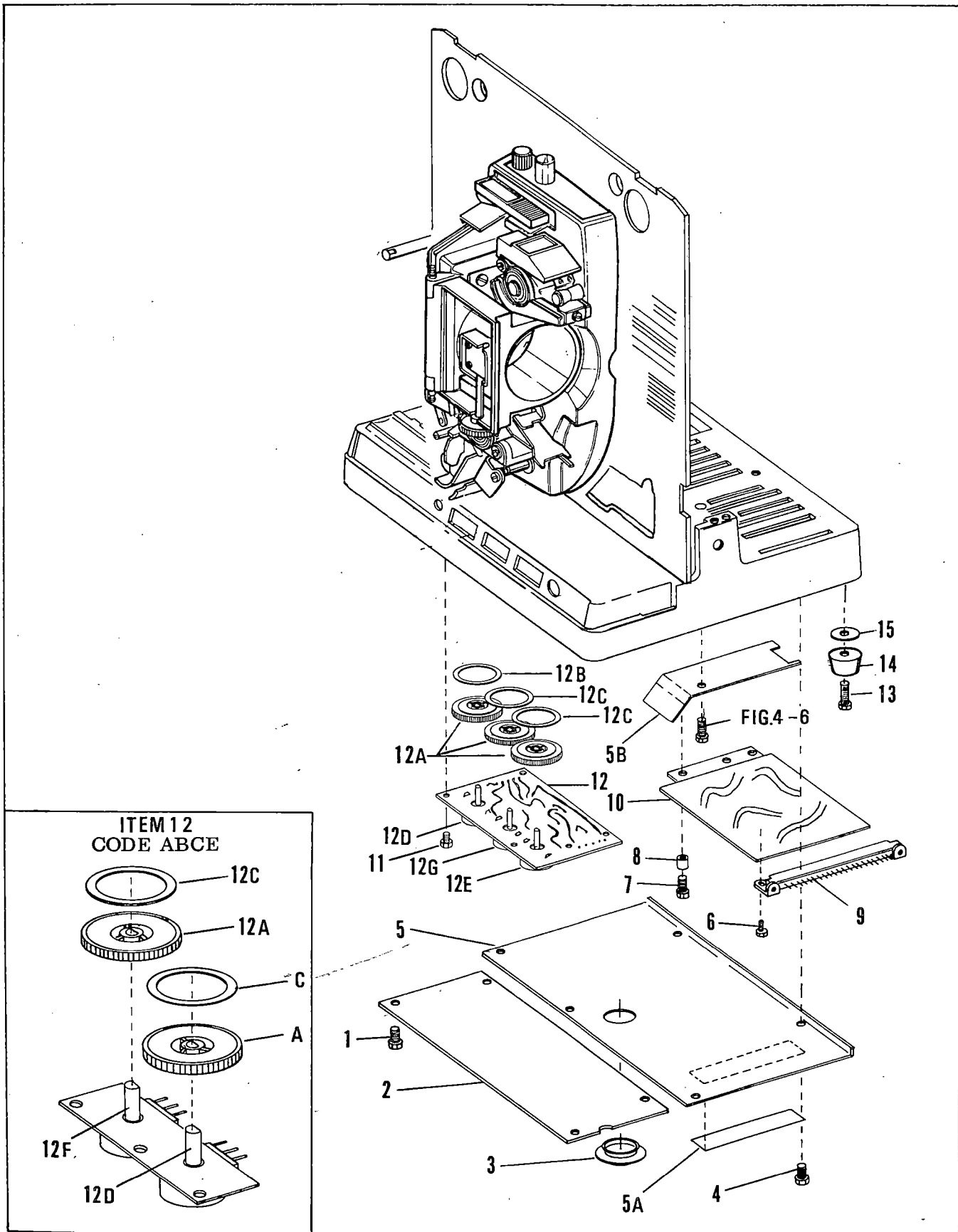


Figure 7. Projector Base Electrical Components

CODE	A	B	C	D	E	F	G	H
MODEL	2585A	2585AML	2585AX	2585AXU	2590A	2592A	2592AX	2592ASX

FIG. & INDEX NO.	PART NO.	DESCRIPTION							UNITS PER ASSY	USABLE ON CODE
		1	2	3	4	5	6	7		
PROJECTOR BASE MECHANICAL COMPONENTS										
8-1	34889	SCREW, Binding head, 1/4-28 by 3/8 inch . . . . .							1	
-2	8179	LOCKWASHER, Spring, 1/4 inch . . . . .							1	
-3	077920	TILT BAR ASSEMBLY . . . . .							1	
-3A	31561	. FOOT, Tilt bar (secure with adhesive) . . . . .							2	
-4	30810	SCREW, Hex washer head, 6-32 by 1/2 inch . . . . .							4	
-5	31585	CLAMP, Leadwire . . . . .							1	
-6	078128	MAINPLATE, Projector . . . . .							1	
-7	766181	SCREW, Hex washer head, 4-40 by 5/16 inch . . . . .							1	
-8	709215	STOP, Threading lever . . . . .							1	
-9	No Number	MECHANISM ASSEMBLY, Complete . . . . . (See Figures 14 through 17 for parts)								
-10	078145	BASE ASSEMBLY, Complete . . . . .							1	
-11	30809	. SCREW, Hex washer head, 6-32 by 3/8 inch . . . . .							1	
-12	48070	. ADAPTER, Tilt gear rack . . . . .							1	
-13	48071	. GEAR RACK . . . . .							1	
-14	21736	. RING, Retaining, 0.207 inch ID . . . . .							1	
-15	34822	. WASHER, Bowed . . . . .							1	
-16	48073	. GEARSHAFT, Tilt . . . . .							1	
-17	31039	. WASHER, Flat . . . . .							1	
-18	44533	. PIN, Spring . . . . .							1	
-19	48072	. WORM GEAR, Tilt . . . . .							1	
-20	710488	. BASE, Projector (see NOTE A) . . . . .							1	
-21	44297	SCREW, Special . . . . .							2	
-22	44348	BRACKET, Idler gear adjustment . . . . .							1	
G	077031	GREASE								

NOTE A: When replacing the projector base, return the old base for transfer of Serial No. to new base.

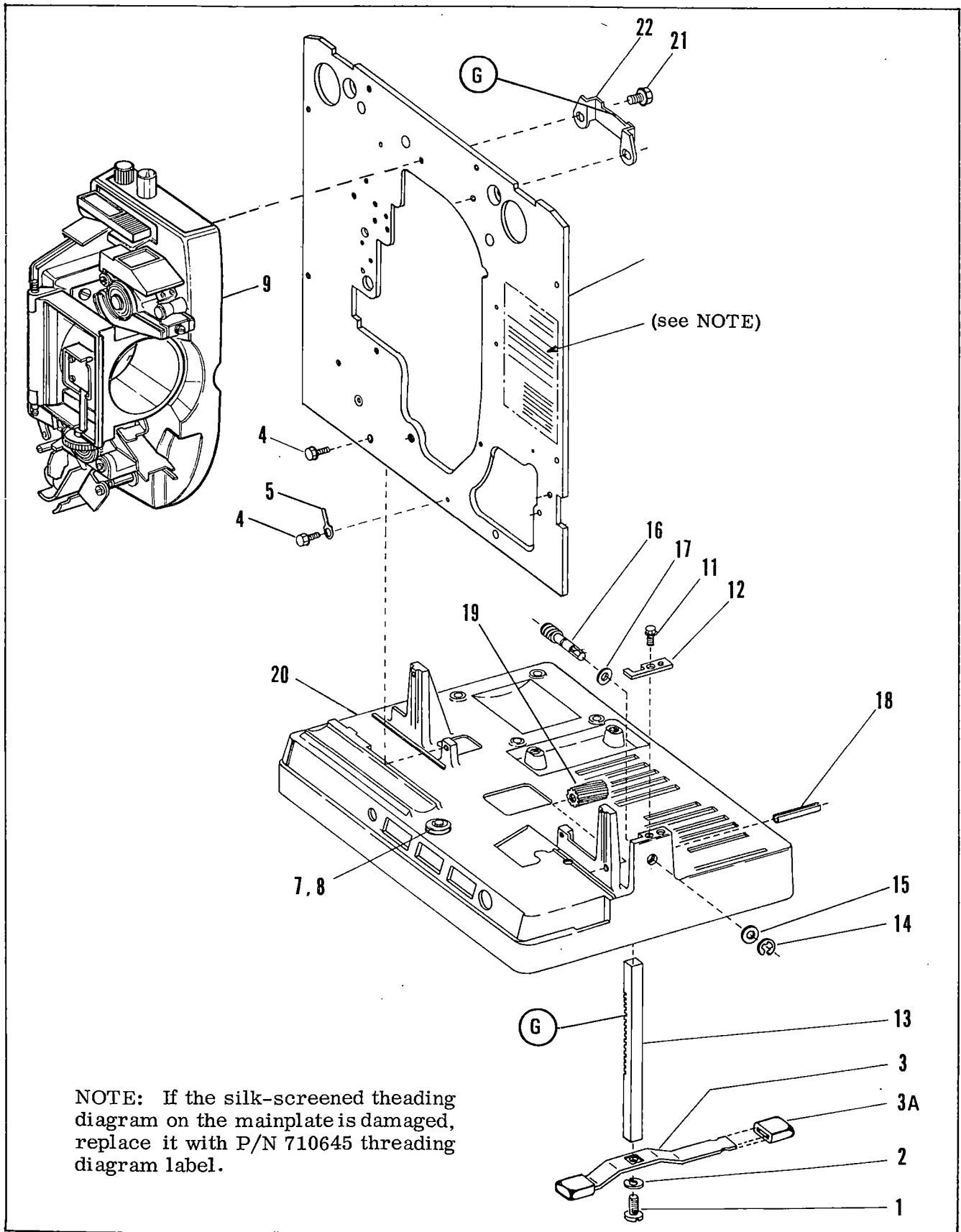


Figure 8. Projector Base Mechanical Components

CODE	A	B	C	D	E	F	G	H
MODEL	2585A	2585AML	2585AX	2585AXU	2590A	2592A	2592AX	2592ASX

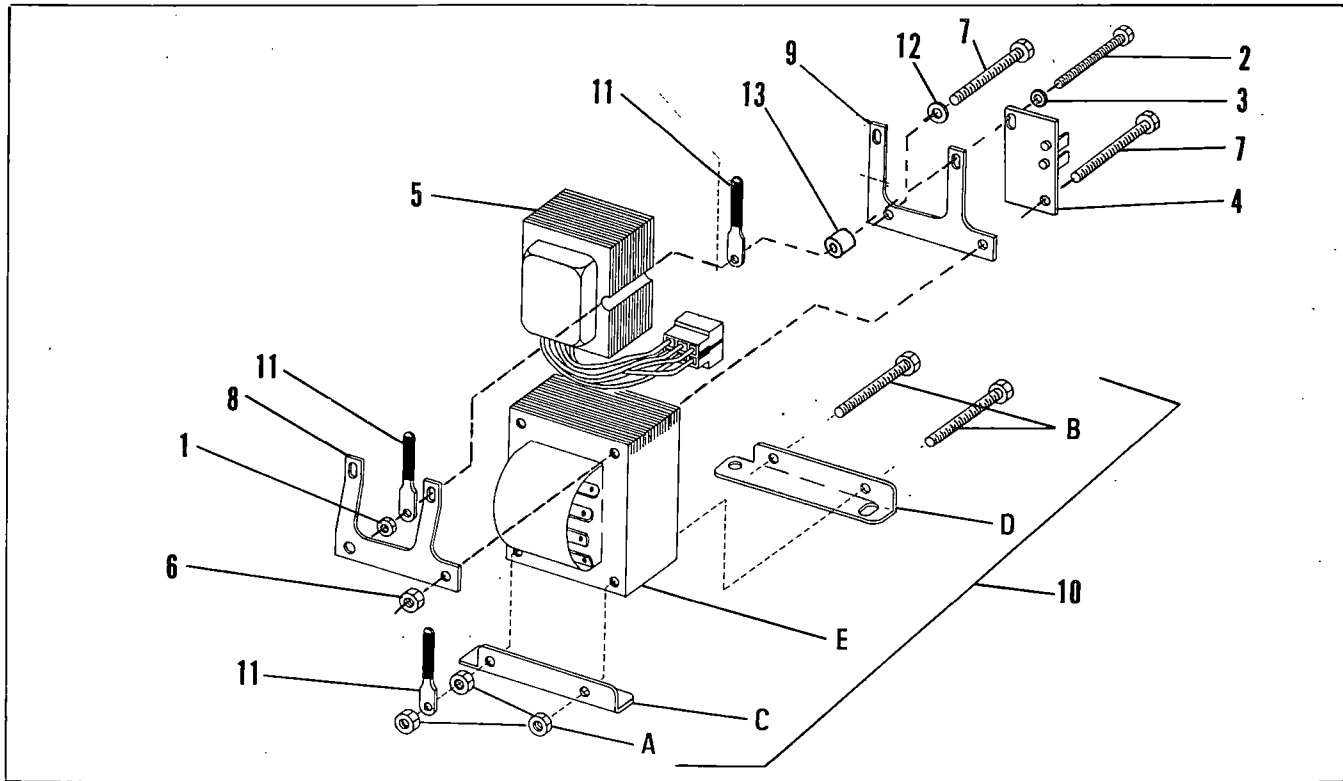


Figure 9A. Power and Lamp Transformers  
(2585A, 2585AML and 2592A Models)

FIG. & INDEX NO.	PART NO.	DESCRIPTION	UNITS PER ASSY	USABLE ON CODE
------------------	----------	-------------	----------------	----------------

POWER AND LAMP TRANSFORMERS  
(2585A, 2585AML AND 2592A MODELS ONLY)

9A-	No Number	POWER/LAMP TRANSFORMERS ASSEMBLY...	REF	AF
9A-	No Number	POWER/LAMP TRANSFORMERS ASSEMBLY...	REF	B
-1	19327	. NUT, Plain hex, 6-32. . . . .	2	ABF
-2	45598	. SCREW, Slotted round head, 6-32 by 1-7/8 inch . .	2	AF
-2	45675	. SCREW, Slotted round head, 6-32 by 2-1/8 inch . .	2	B
-3	700735	. LOCKWASHER, External tooth, No. 6 . . . . .	2	ABF
-4	707470	. TERMINAL BOARD . . . . .	1	ABF
-5	016580	. TRANSFORMER ASSEMBLY, Power . . . . .	1	ABF
-6	19037	. NUT, Hex Sems, 8-32 . . . . .	2	ABF
-7	46484	. SCREW, Slotted round head, 8-32 by 2-1/4 inch . .	2	AF
-7	45676	. SCREW, Slotted round head, 8-32 by 2-1/2 inch . .	2	B
-8	707746	. BRACKET, Power transformer, L.H. . . . .	1	ABF
-9	707745	. BRACKET, Power transformer, R.H. . . . .	1	ABF
-10	016579	. TRANSFORMER ASSEMBLY, Lamp . . . . .	1	AF
-10	016625	. TRANSFORMER ASSEMBLY, Lamp . . . . .	1	B
-10A	19037	. . NUT, Hex Sems, 8-32 . . . . .	2	ABF
-10B	46484	. . SCREW, Slotted round head, 8-32 by 2-1/4 inch	2	ABF
-10C	44332	. . BRACKET, Lamp transformer, L.H. . . . .	1	ABF
-10D	44333	. . BRACKET, Lamp transformer, R.H. . . . .	1	ABF
-10E	No Number	. . TRANSFORMER, Lamp (order complete assy)	NP	ABF
-11	016522	. . TIE ASSEMBLY, Wire . . . . .	3	ABF
-12	709417	. . WASHER, Fiber . . . . .	1	ABF
-13	44492	. . SPACER . . . . .	2	B

CODE	A	B	C	D	E	F	G	H
MODEL	2585A	2585AML	2585AX	2585AXU	2590A	2592A	2592AX	2592ASX

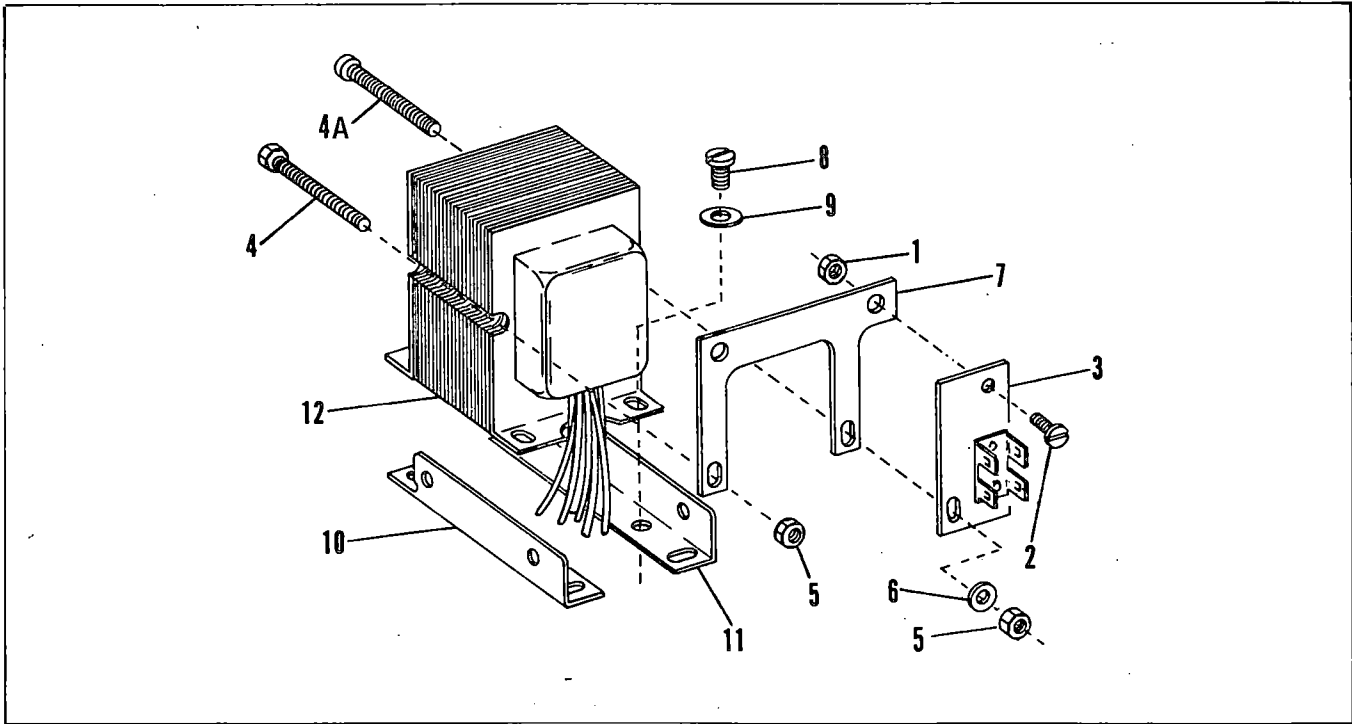


Figure 9B. Power Transformer  
(2590A Models Only)

FIG. & INDEX NO.	PART NO.	DESCRIPTION							UNITS PER ASSY	USABLE ON CODE
		1	2	3	4	5	6	7		

POWER TRANSFORMER ASSEMBLY  
(2590A MODELS ONLY)

9B-	No Number	POWER TRANSFORMER ASSEMBLY . . . . .							REF	E
-1	601190	. NUT, Plain hex . . . . .							1	E
-2	765340	. SCREW, Slotted pan head . . . . .							1	E
-3	707470	. TERMINAL BOARD . . . . .							1	E
-4	39350	. SCREW, Sems hex head, 6-32 by 1-11/16 inch . .							1	E
-4A	39256	. SCREW, Round head, 6-32 by 1-7/8 inch . . . . .							1	E
-5	601190	. NUT, Plain hex . . . . .							2	E
-6	31243	. WASHER, Flat . . . . .							1	E
-7	707745	. BRACKET, Transformer . . . . .							1	E
-8	44296	. SCREW, Socket head . . . . .							4	E
-9	34859	. WASHER, Flat . . . . .							4	E
-10	44332	. BRACKET, Transformer mounting, L.H. . . . .							1	E
-11	44333	. BRACKET, Transformer mounting, R.H. . . . .							1	E
-12	016615	. TRANSFORMER, Power . . . . .							1	E



CODE	A	B	C	D	E	F	G	H
MODEL	2585A	2585AML	2585AX	2585AXU	2590A	2592A	2592AX	2592ASX

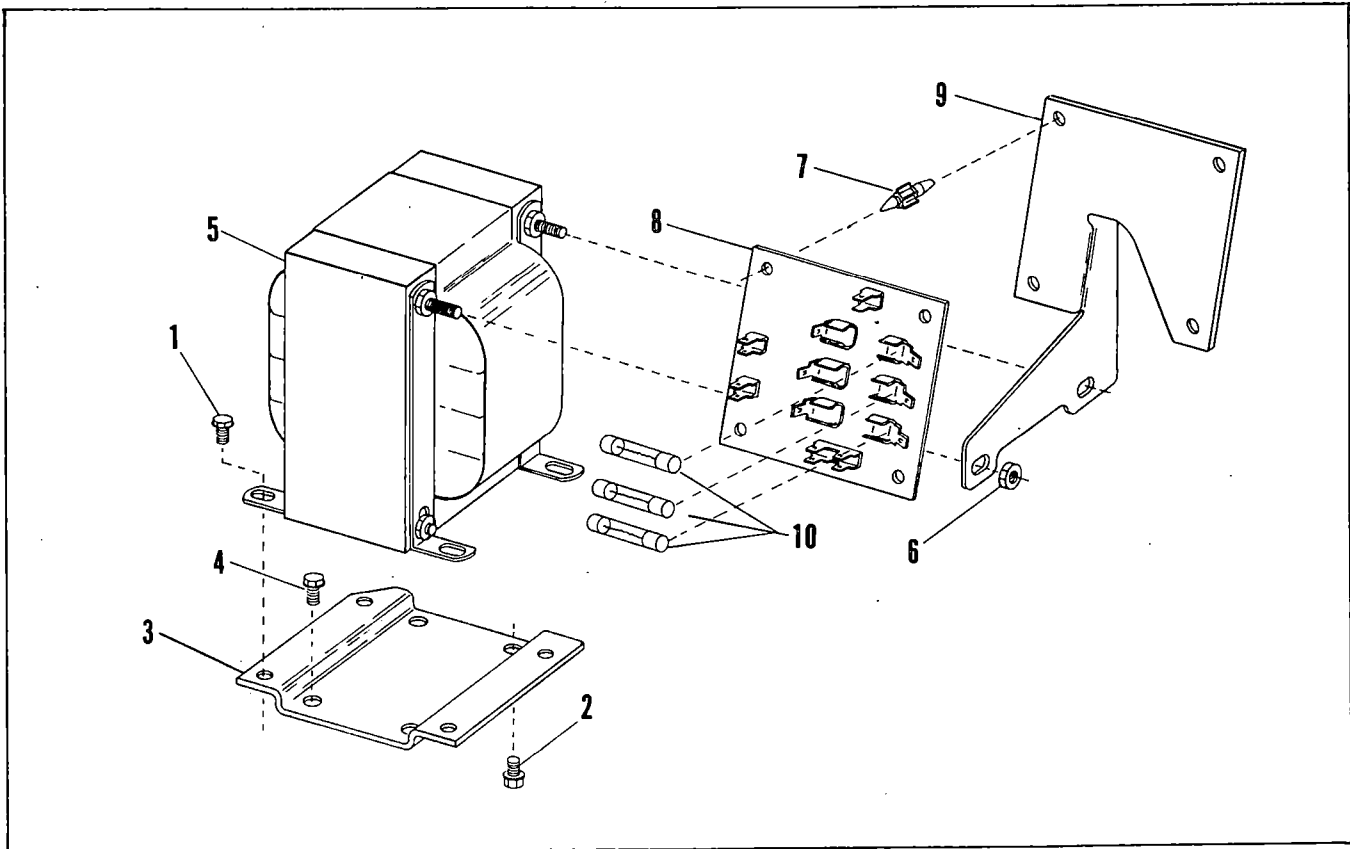


Figure 9C. Power Transformer Assembly  
(2585AX, 2585AXU, 2592AX, 2592AXS Models Only)

FIG. & INDEX NO.	PART NO.	DESCRIPTION							UNITS PER ASSY	USABLE ON CODE
		1	2	3	4	5	6	7		
<b>POWER TRANSFORMER ASSEMBLY</b>										
9C-	No Number	POWER TRANSFORMER ASSEMBLY . . . . .							NP	CDGH
-1	30815	. SCREW, Pan washer head, 8-32 by 3/8 inch . .							4	CDGH
-2	30817	. SCREW, Hex washer head, 8-32 by 1/2 inch . .							2	CDGH
-3	710205	. BRACKET, Mounting . . . . .							1	CDGH
-4	30815	. SCREW, Pan washer head, 8-32 by 3/8 inch . .							2	CDGH
-5	077631	. TRANSFORMER ASSEMBLY, Power . . . . .							1	CDGH
-6	19037	. NUT, Hex, No. 8-32 . . . . .							2	CDGH
-7	709114	. STAND-OFF, Fuseboard . . . . .							4	CDGH
-8	710319	. FUSEBOARD . . . . .							1	CDGH
-9	710260	. SUPPORT, Fuseboard . . . . .							1	CDGH
-10	305792	. FUSE, Slo-Blo, 2.0 amp, 120V . . . . .							3	CDGH

CODE	A	B	C	D	E	F	G	H
MODEL	2585A	2585AML	2585AX	2585AXU	2590A	2592A	2592AX	2592ASX

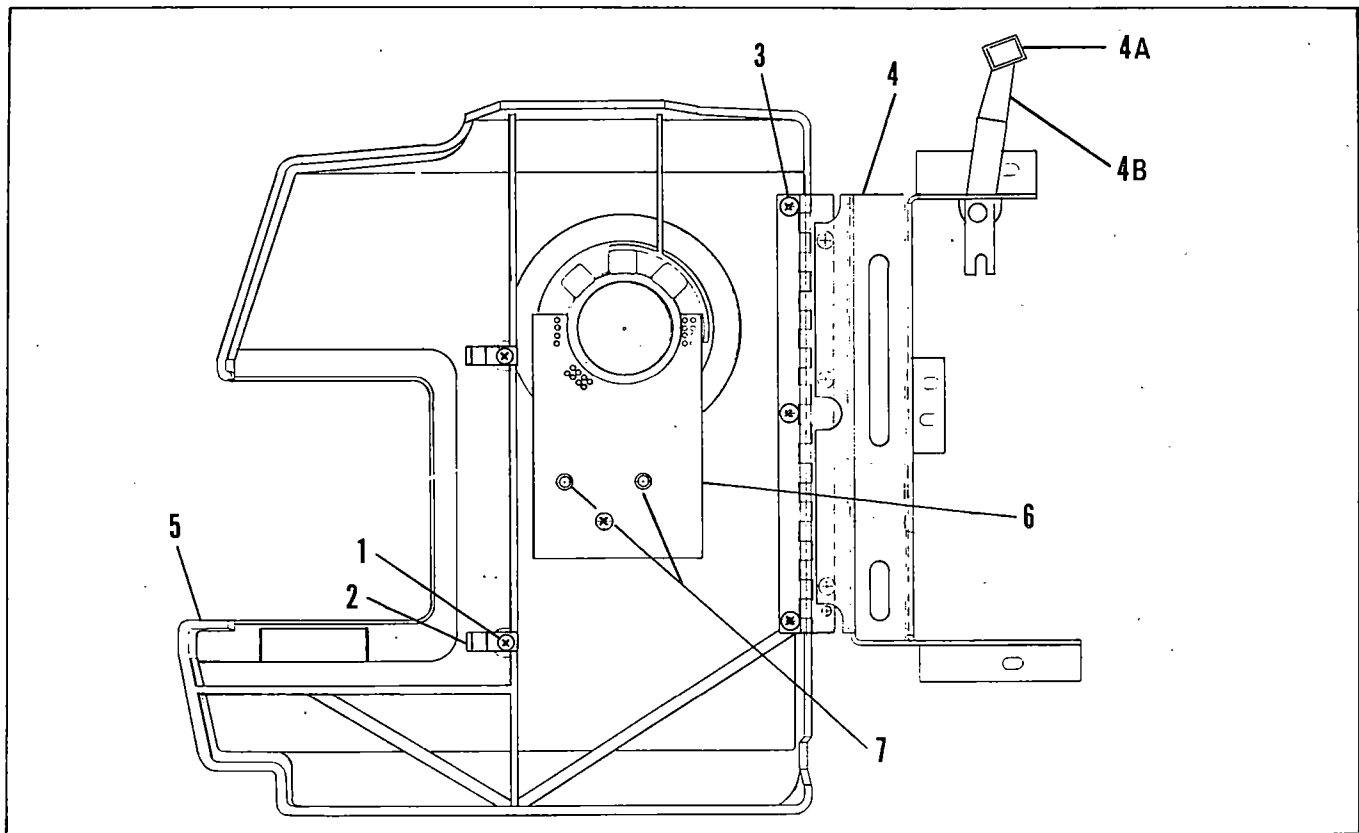


Figure 10. Lamphouse Cover Assembly

FIG. & INDEX NO.	PART NO.	DESCRIPTION							UNITS PER ASSY	USABLE ON CODE
		1	2	3	4	5	6	7		
<b>LAMPHOUSE COVER ASSEMBLY</b>										
10-	078233	LAMPHOUSE COVER ASSEMBLY, Complete . . . .							1	ABCD
10-	078174	LAMPHOUSE COVER ASSEMBLY, Complete . . . .							1	E
10-	078234	LAMPHOUSE COVER ASSEMBLY, Complete . . . .							1	FGH
-1	707443	. SCREW, Phillips head tapping . . . . .							2	
-2	707081	. LATCH, Lamphouse . . . . .							2	
-3	48493	. SCREW, Cover hinge . . . . .							3	
-4	078231	. HINGE AND BRACKET ASSEMBLY . . . . .							1	ABCD
-4	016815	. HINGE AND BRACKET ASSEMBLY . . . . .							1	E
-4	078232	. HINGE AND BRACKET ASSEMBLY . . . . .							1	FGH
-4A	44173	. . KNOB, Still-Run lever . . . . .							1	FGH
-4B	707074	. . LEVER, Still-run . . . . .							1	FGH
-5	709847	. COVER, Lamphouse . . . . .							1	
-6	710714	. REFLECTOR, Heat . . . . .							1	A-D, FGH
-6	707446	. REFLECTOR, Heat . . . . .							1	E
-7	48493	. SCREW, Heat reflector . . . . .							2	A-D, FGH
-7	48493	. SCREW, Heat reflector . . . . .							1	E

CODE	A	B	C	D	E	F	G	H
MODEL	2585A	2585AML	2585AX	2585AXU	2590A	2592A	2592AX	2592ASX

FIG. & INDEX NO.	PART NO.	DESCRIPTION							UNITS PER ASSY	USABLE ON CODE
		1	2	3	4	5	6	7		

FRONT REEL ARM ASSEMBLY

11-	078106	REEL ARM ASSEMBLY, Front . . . . .							REF	
-1	30879	. SCREW, Pan head, 6-32 by 3/8 inch . . . . .							2	
-2	710405	. COVER, Front reel arm . . . . .							1	
-3	31247	. SCREW, Hex socket button cup, 10-32 by 1/4 inch . . . . .							1	
-4	No Number	. SPINDLE ASSEMBLY, Feed . . . . .							1	
-4A	36769	. . SETSCREW, Fluted socket cup pt, 8-32 by 1/4 in. . . . .							2	
-4B	709806	. . GEAR, Face, lower . . . . .							1	
-4C	016952	. . SPINDLE ASSEMBLY, Feed . . . . .							1	
-5	31038	. RING, Retaining, external, 0.156 inch ID . . . . .							1	
-6	36764	. SETSCREW, Fluted socket cup pt, 6-32 by 3/16 inch . . . . .							1	
-6A	36765	. SETSCREW, Fluted socket cup pt, 6-32 by 1/8 inch . . . . .							1	
-7	45577	. GEAR, Face, upper . . . . .							1	
-7A	45578	. SLEEVE, Plastic . . . . .							1	
-8	45579	. SPRING, Torsion . . . . .							1	
-9	765777	. RING, Retaining, external, 0.250 inch ID . . . . .							1	
-10	31017	. WASHER, Thrust . . . . .							1	
-11	707111	. SHAFT, Front reel arm . . . . .							1	
-12	31245	. RING, Retaining, grip type, 0.187 inch ID . . . . .							1	
-13	33385	. GEAR, Spur, upper . . . . .							1	
-14	31241	. CLIP, Gear retaining . . . . .							2	
-15	31243	. WASHER, Flat . . . . .							1	
-16	31239	. GEAR, Spur, lower . . . . .							1	
-17	44407	. SHAFT, Gear . . . . .							1	
-18	31236	. BEARING, Nylon . . . . .							2	
-19	078119	. ARM AND BEARING ASSEMBLY, Front reel . . . . .							1	
G1	070047	GREASE								
G2	070034	GREASE								
L	070041	OIL								

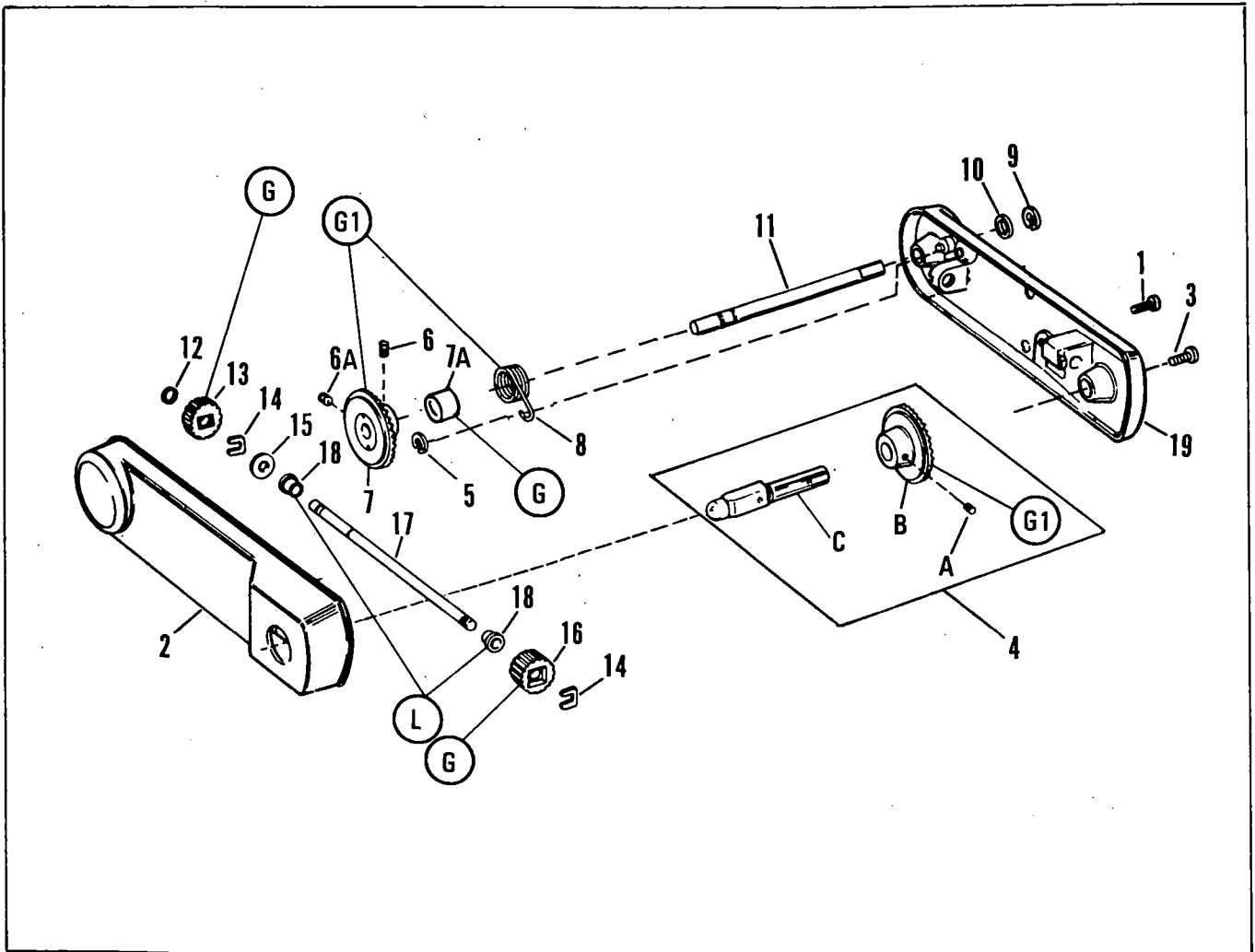


Figure 11. Front Reel Arm Assembly

CODE	A	B	C	D	E	F	G	H
MODEL	2585A	2585AML	2585AX	2585AXU	2590A	2592A	2592AX	2592ASX

FIG. & INDEX NO.	PART NO.	DESCRIPTION							UNITS PER ASSY	USABLE ON CODE
		1	2	3	4	5	6	7		
REAR REEL ARM ASSEMBLY										
12-	078107	REEL ARM ASSEMBLY, Rear . . . . .							REF	
-1	30879	. SCREW, Hex washer head, special . . . . .							2	
-2	710406	. COVER, Rear reel arm . . . . .							1	
-3	24047	. BELT, Take-up . . . . .							1	
-4	36038	. SPRING, Tension . . . . .							1	
-5	31247	. SCREW, Hex socket button head, 10-32 by 1/4 inch . . . . .							1	
-6	016546	. SPINDLE AND PULLEY ASSEMBLY, Take-up . . . . .							1	
-7	700672	. WASHER, Shim . . . . .							1	
-8	765449	. RING, Retaining, external, 0.188 inch . . . . .							1	
-9	45580	. WASHER, Flat . . . . .							1	
-10	45684	. SLEEVE, Rubber . . . . .							1	
-11	36764	. SETSCREW, Fluted socket cup pt, 6-32 by 3/16 inch . . . . .							1	
-12	45685	. GEAR, Face, lower . . . . .							1	
-13	34101	. WASHER, Shim . . . . .							1	
-14	45683	. SHAFT, Gear . . . . .							1	
-15	31038	. RING, Retaining, external, 0.156 inch ID . . . . .							1	
-16	707136	. SPRING, Torsion . . . . .							1	
-17	31245	. RING, Retaining, grip type, 0.187 inch ID . . . . .							1	
-18	33385	. GEAR, Spur, upper . . . . .							1	
-19	31241	. CLIP, Gear retaining . . . . .							2	
-20	31239	. GEAR, Spur, lower . . . . .							1	
-21	34101	. WASHER, Flat . . . . .							2	
-22	44412	. SHAFT, Gear . . . . .							1	
-23	31236	. BEARING, Nylon . . . . .							2	
-24	36764	. SETSCREW, Fluted socket cup pt, 6-32 by 3/16 inch . . . . .							1	
-25	44367	. GEAR, Face, upper . . . . .							1	
-26	765777	. RING, Retaining, external, 0.250 inch ID . . . . .							1	
-27	700672	. WASHER, Spacer . . . . .							1	
-28	49532	. SHAFT, Rear reel arm . . . . .							1	
-29	078120	. ARM AND BEARING ASSEMBLY, Rear and take-up . . . . .							1	
-30	014611	. . BEARING ASSEMBLY, Rear and take-up . . . . . reel arm							1	
-31	41331	. PIN, Rear and take-up reel arm assembly . . . . .							1	
G1	070034	GREASE								
G2	070047	GREASE								
L	070041	OIL								

**CAUTION**

Lubricants should be kept away from belt and rubber sleeve.

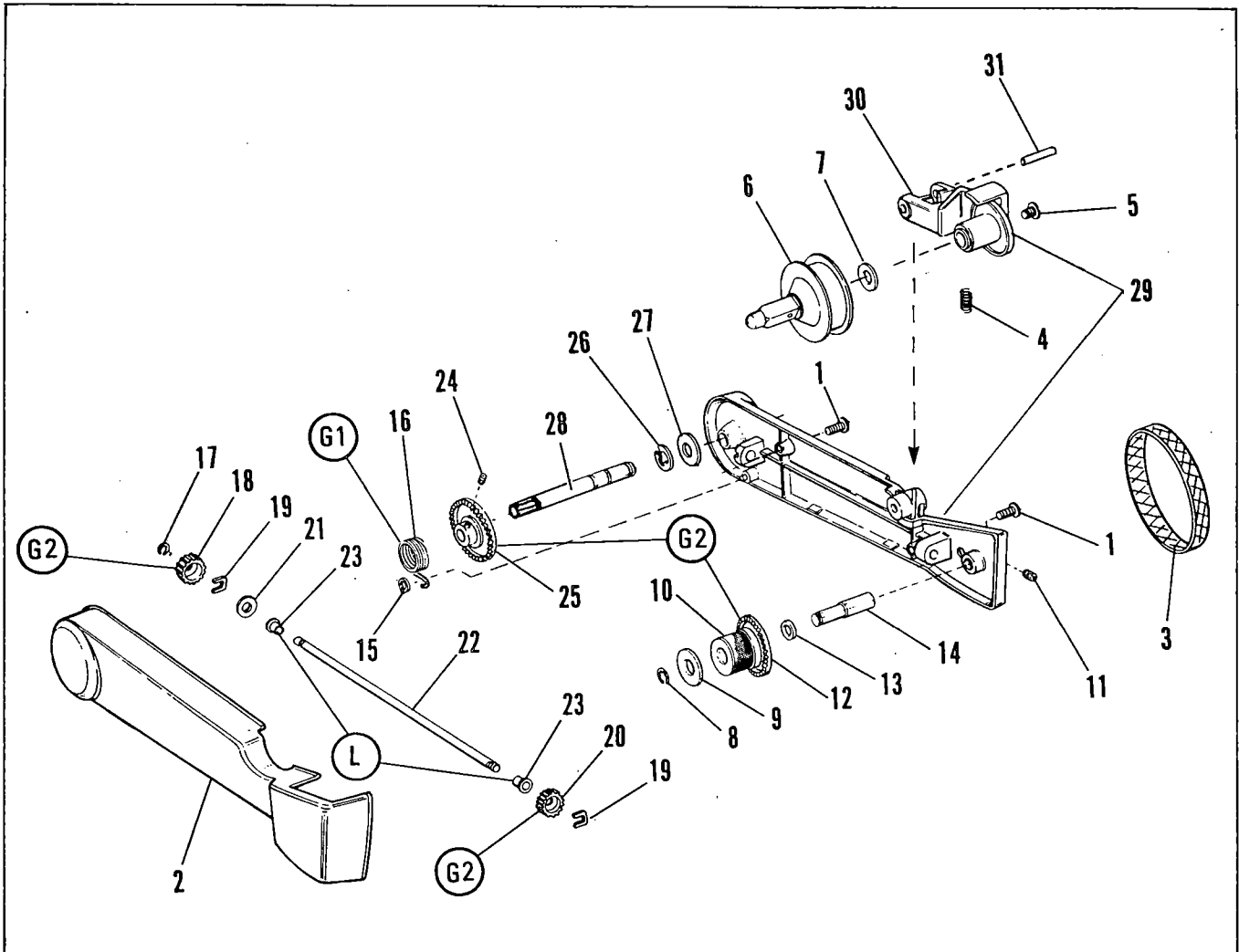


Figure 12. Rear Reel Arm Assembly

CODE	A	B	C	D	E	F	G	H
MODEL	2585A	2585AML	2585AX	2585AXU	2590A	2592A	2592AX	2592ASX

FIG. & INDEX NO.	PART NO.	DESCRIPTION							UNITS PER ASSY	USABLE ON CODE
		1	2	3	4	5	6	7		
EXCITER LAMP COVER AND SOUNDHEAD										
13-	No Number	COVER ASSEMBLY, Exciter lamp, complete . . . .							REF	
-1	20808	. RING, Retaining, 0.145 inch ID . . . . .							1	
-2	710424	. SCREW, Cover retaining . . . . .							1	
-2A	31243	. WASHER, Flat . . . . .							1	
-3	30149	. SCREW, Binding head, 6-32 by 1/4 inch . . . . .							2	
-4	35823	. GUIDE, Film . . . . .							1	
-5	34787	. PLUG, Hole . . . . .							1	
-6	36094	. SHIELD, Light (adhesive backed) (trim off excess)							1	
-6A	710471	. DECAL, NO. 1 (adhesive backed) . . . . .							1	
-7	078130	. COVER ASSEMBLY, Exciter lamp. . . . .							1	
-7A	078129	. . FILM CUTTER ASSY (Includes items -7B, -7C)							1	
-7B	32456	. . . SCREW, Film cutter . . . . .							2	
-7C	600987	. . . NUT, Hex . . . . .							2	
-7D	710096	COVER . . . . .							1	
13-	No Number	SOUNDHEAD ASSEMBLY, Complete . . . . .							REF	
-8	34884	. LAMP, Exciter . . . . .							1	
-9	34892	. NAMEPLATE, Lamp designation . . . . .							1	
-10	49932	. SCREW, Optical slit . . . . .							1	
-11	020240	. SLIT ASSEMBLY, Optical Clamping . . . . .							1	
-12	31673	. SPRING, Stabilizer arm tension . . . . .							1	
-13	31671	. RING, Retaining, external, 0.250 inch ID . . . . .							1	
-14	31630	. SCREW, Roller adjusting . . . . .							1	
-15	013935	. ARM ASSEMBLY, Stabilizer, complete . . . . .							1	
-15A	30163	. . SCREW, Binding head, 5-40 by 3/8 inch . . . . .							2	
-15B	31674	. . WASHER, Flat . . . . .							2	
-15C	09834	. . ROLLER, Flanged, upper . . . . .							1	
-15D	09835	. . ROLLER, Plain, lower . . . . .							1	
-15E	30804	. . SCREW, Hex washer head, 4-40 by 1/4 inch . . . . .							2	
-15F	31659	. . ARM, Stabilizer . . . . .							1	
-15G	39789	. . SPRING, Torsion . . . . .							1	
-15H	09832	. . ARM ASSEMBLY, Stabilizer, lower . . . . .							1	
-15J	09838	. . ARM ASSEMBLY, Stabilizer, upper . . . . .							1	
-16	31638	. SCREW, Fillister head, 6-32 by 0.438 inch . . . . .							2	
-17	09828	. CONTACT ASSEMBLY, Exciter lamp . . . . .							1	
-18	31636	. RING, Lamp release . . . . .							1	
-19	36765	. SETSCREW, Fluted socket cup pt, 6-32 by 1/4 inch							1	
-20	36668	. SCREW, Pan head Sems, 6-32 by 5/16 inch . . . . .							2	
-21	014532	. SOUND DRUM AND SHAFT ASSEMBLY . . . . .							1	
-22	31669	. RETAINER, Photocell . . . . .							1	
-23	015569	. PHOTOCCELL ASSEMBLY . . . . .							1	
-24	09826	. SCREW ASSEMBLY, Edge guide . . . . .							1	
-25	17676	. RING, Retaining, external, 0.156 inch ID (E) . . . . .							1	
-26	33837	. WASHER, Friction, 0.096 inch ID . . . . .							1	
-27	44420	. ADJUSTER, Stabilizer tension . . . . .							1	
-28	44511	. RETAINER, Stabilizer tension spring . . . . .							1	
-29	30804	. SCREW, Hex washer head, 4-40 by 1/4 inch . . . . .							1	
-30	31675	. TERMINAL, Solder lug . . . . .							1	
-31	078289	. HOUSING ASSEMBLY, Soundhead . . . . .							1	
-31A	41321	. . PIN, Lamp mounting . . . . .							3	
-31B	41320	. . BUSHING, Mounting pin . . . . .							3	
-31C	602339	. . SPRING, Tension . . . . .							3	
-31D	No Number	. . HOUSING, Soundhead (order complete assy) . . . . .							NP	
G	070034	GREASE								

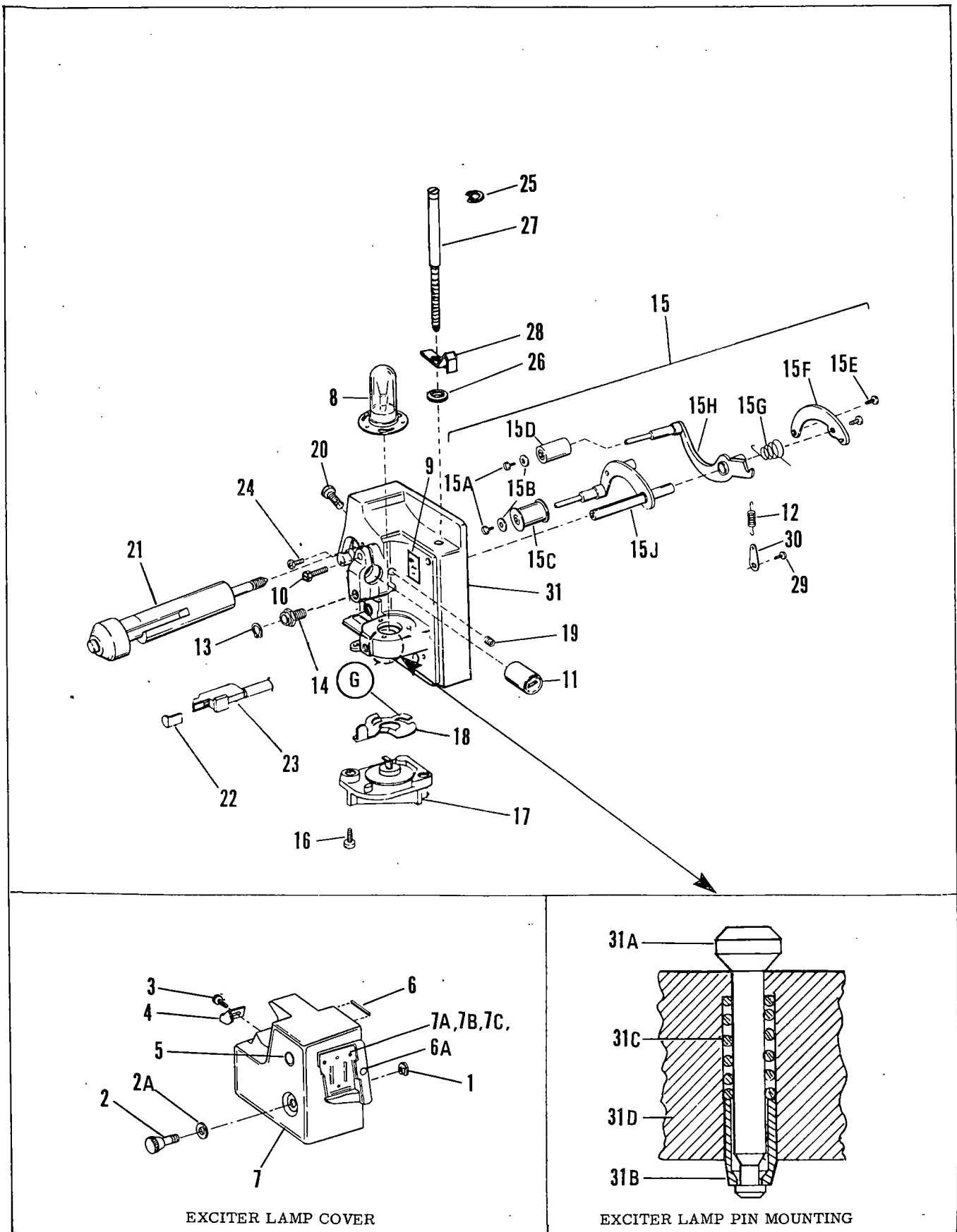


Figure 13. Soundhead Assembly

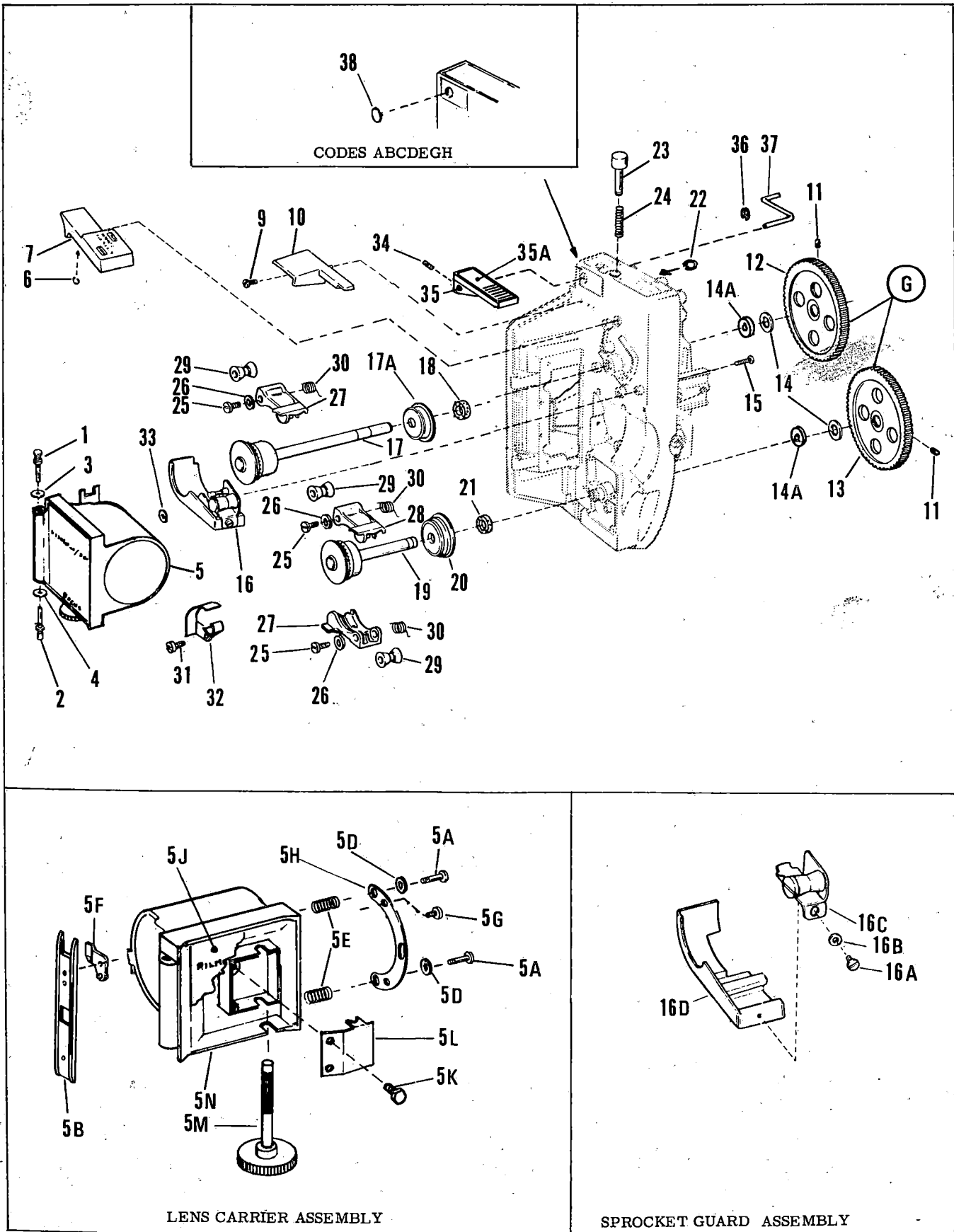


CODE	A	B	C	D	E	F	G	H
MODEL	2585A	2585AML	2585AX	2585AXU	2590A	2592A	2592AX	2592ASX

FIG. & INDEX NO.	PART NO.	1	2	3	4	5	6	7	DESCRIPTION	UNITS PER ASSY	USABLE ON CODE
------------------------	-------------	---	---	---	---	---	---	---	-------------	----------------------	----------------------

MECHANISM ASSEMBLY — VIEW I

14-	No Number	MECHANISM ASSY (See Figure 8 for mounting) . . .							REF	
-1	31957	. PIN, Hinge, upper . . . . .							1	
-2	31957	. PIN, Hinge, lower . . . . .							1	
-3	31019	. WASHER, Spring tension . . . . .							1	
-4	31020	. WASHER, Flat . . . . .							1	
-5	016840	. LENS CARRIER ASSEMBLY . . . . .							1	
-5A	45688	. . SCREW, Truss head, 3-56 by 0.434 inch . . . . .							2	
-5B	31092	. . PLATE, Pressure . . . . .							1	
-5D	45687	. . WASHER, Flat . . . . .							2	
-5E	34897	. . SPRING, Compression . . . . .							2	
-5F	35819	. . LEVER, Pressure plate . . . . .							1	
-5G	30804	. . SCREW, Hex washer head, 4-40 by 1/4 inch . . . . .							2	
-5H	31095	. . PLATE, Adjustment . . . . .							1	
-5J	710474	. . NAMEPLATE, Lens carrier (adhesive backed) . . . . .							1	
-5K	30804	. . SCREW, Hex washer head, 4-40 by 1/4 inch . . . . .							2	
-5L	31093	. . SPRING, Pinion . . . . .							1	
-5M	016841	. . KNOB AND PINION ASSEMBLY . . . . .							1	
-5N	014576	. . CARRIER AND PIN ASSEMBLY . . . . .							1	
-6	20808	. RING, Retaining, 0.145 inch ID . . . . .							1	
-7	711667	. LEVER, Actuating . . . . .							1	
-8	Deleted									
-9	30807	. SCREW, Hex washer head, 6-32 by 1/4 inch . . . . .							2	
-10	707162	. HOOD . . . . .							1	
-11	36771	. SETSCREW, Fluted socket cup pt, 8-32 by 3/8 inch . . . . .							4	
-12	016808	. GEAR ASSY, Sprocket, upper . . . . .							1	
-13	016807	. GEAR ASSY, Sprocket, lower . . . . .							1	
-14	31015	. WASHER, Spring tension . . . . .							2	
-14A	708640	. WASHER, Flat . . . . .							2	
-15	31928	. SCREW, Binding head, 6-32 by 1/2 inch . . . . .							2	
-16	078133	. GUARD ASSEMBLY, Sprocket, upper . . . . .							1	
-16A	31551	. . SCREW, Pan head, 5-40 by 1/4 inch . . . . .							1	
-16B	700639	. . WASHER . . . . .							1	
-16C	078132	. . CHANNEL AND ROLLER ASSEMBLY . . . . .							1	
-16D	44388	. . GUARD, Sprocket . . . . .							1	
-17	077453	. SPROCKET ASSEMBLY, Upper . . . . .							1	
-17A	710012	. FLANGE, Sprocket, upper . . . . .							1	
-18	31017	. WASHER, Thrust . . . . .							1	
-19	077456	. SPROCKET ASSEMBLY, Lower . . . . .							1	
-20	35910	. FLANGE, Sprocket, lower . . . . .							1	
-21	31017	. WASHER, Thrust . . . . .							1	
-22	765449	. RING, Retaining, external, 0.188 inch ID . . . . .							1	
-23	710203	. BUTTON, Rewind . . . . .							1	
-24	31042	. SPRING, Rewind button . . . . .							1	
-25	44224	. SCREW, Hex washer head, 4-40 by 3/16 inch . . . . .							3	
-26	34878/34879	. WASHER, Shim . . . . .							AR	
-27	35814	. GUARD, Sprocket . . . . .							2	
-28	36999	. GUARD, Sprocket . . . . .							1	
-29	36081	. ROLLER . . . . .							3	
-30	35830	. SPRING, Torsion . . . . .							3	
-31	31049	. SCREW, Binding head, 6-32 by 1/4 inch . . . . .							1	
-32	44321	. GUIDE, Film exit . . . . .							1	
-33	710473	. DECAL, Auto load position "4" (adhesive backed) . . . . .							1	
-34	36764	. SETSCREW, Fluted socket cup pt, 6-32 by 3/16 inch . . . . .							2	F
-35	44381	. LEVER, Directamotion . . . . .							1	F
-35A	710469	. NAMEPLATE, Directamotion (adhesive backed) . . . . .							1	F
-36	31038	. RING, Grip, 0.156 inch ID . . . . .							1	F
-37	44535	. CRANK, Directamotion switch lever . . . . .							1	F
-38	710479	. DISC (adhesive backed) . . . . .							1	A-E, GH
G	070043	GREASE								



LENS CARRIER ASSEMBLY

SPROCKET GUARD ASSEMBLY

Figure 14. Mechanism Assembly - View I

CODE	A	B	C	D	E	F	G	H
MODEL	2585A	2585AML	2585AX	2585AXU	2590A	2592A	2592AX	2592ASX

FIG. & INDEX NO.	PART NO.	DESCRIPTION							UNITS PER ASSY	USABLE ON CODE	
		1	2	3	4	5	6	7			
MECHANISM ASSEMBLY -- VIEW II											
15A-1	30164	.	.	.	.	.	.	.	.	3	
-2	36082	.	.	.	.	.	.	.	.	3	
-3	97509	.	.	.	.	.	.	.	.	1	
-4	48939	.	.	.	.	.	.	.	.	1	
-5	710472	.	.	.	.	.	.	.	.	1	
-6	48938	.	.	.	.	.	.	.	.	1	
-7	308858	.	.	.	.	.	.	.	.	1	
-8	709872	.	.	.	.	.	.	.	.	1	
-9	44359	.	.	.	.	.	.	.	.	1	
-10	49979	.	.	.	.	.	.	.	.	1	
-11	078148	.	.	.	.	.	.	.	.	1	
-11A	308858	.	.	.	.	.	.	.	.	1	
-11B	710493	.	.	.	.	.	.	.	.	1	
-11C	41330	.	.	.	.	.	.	.	.	1	
-11D	078149	.	.	.	.	.	.	.	.	1	
-12	17676	.	.	.	.	.	.	.	.	1	
-13	35874	.	.	.	.	.	.	.	.	1	
-14	35838	.	.	.	.	.	.	.	.	1	
-15	31551	.	.	.	.	.	.	.	.	1	
-16	35822	.	.	.	.	.	.	.	.	1	
-17	31413	.	.	.	.	.	.	.	.	1	
-18	35834	.	.	.	.	.	.	.	.	2	
-19	35850	.	.	.	.	.	.	.	.	1	
-20	31551	.	.	.	.	.	.	.	.	2	
-21	015924	.	.	.	.	.	.	.	.	1	
-22	17639	.	.	.	.	.	.	.	.	1	
-23	011221	.	.	.	.	.	.	.	.	1	
-24	35846	.	.	.	.	.	.	.	.	1	
-25	303541	.	.	.	.	.	.	.	.	2	
-26	36018	.	.	.	.	.	.	.	.	1	
-27	33347	.	.	.	.	.	.	.	.	1	
-28	09789	.	.	.	.	.	.	.	.	1	
-29	013922	.	.	.	.	.	.	.	.	1	
-30	17639	.	.	.	.	.	.	.	.	1	
-31	011233	.	.	.	.	.	.	.	.	1	
-32	31555	.	.	.	.	.	.	.	.	1	
-33	83663	.	.	.	.	.	.	.	.	1	
-34	31451	.	.	.	.	.	.	.	.	1	
-35	35820	.	.	.	.	.	.	.	.	1	
-36	011218	.	.	.	.	.	.	.	.	1	
-37	30807	.	.	.	.	.	.	.	.	1	
-38	49980	.	.	.	.	.	.	.	.	1	
-39	31551	.	.	.	.	.	.	.	.	2	
-40	011212	.	.	.	.	.	.	.	.	1	
-41	36763	.	.	.	.	.	.	.	.	2	
-42	011214	.	.	.	.	.	.	.	.	1	
-43	44513	.	.	.	.	.	.	.	.	1	
-44	34878	.	.	.	.	.	.	.	.	1	
-45	710033	.	.	.	.	.	.	.	.	1	

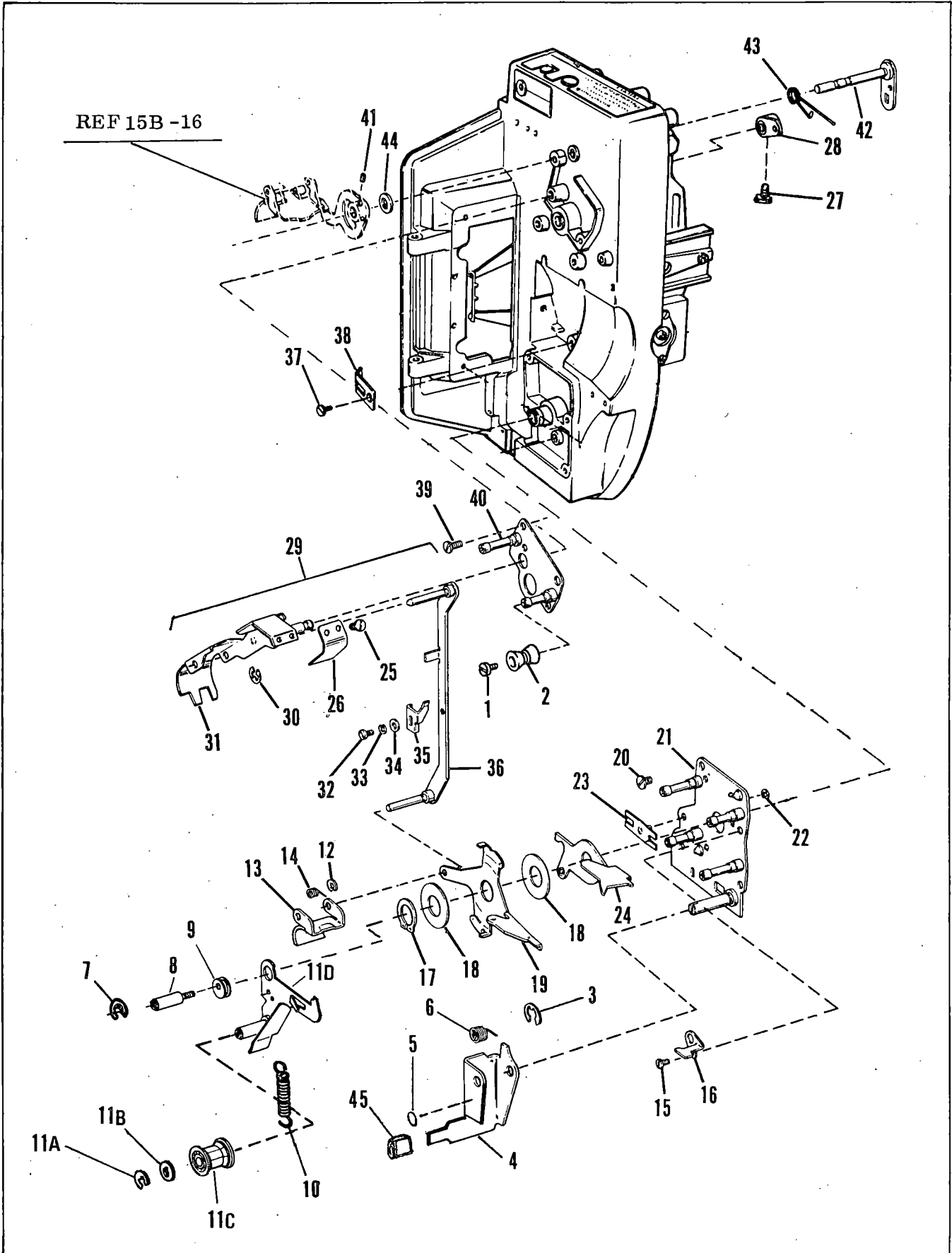


Figure 15A. Mechanism Assembly — View II

Revised Dec. 1980

CODE	A	B	C	D	E	F	G	H
MODEL	2585A	2585AML	2585AX	2585AXU	2590A	2592A	2592AX	2592ASX

FIG. & INDEX NO.	PART NO.	1	2	3	4	5	6	7	DESCRIPTION	UNITS	USABLE
										PER ASSY	ON CODE
MECHANISM ASSEMBLY — VIEW II (CONT'D)											
15B -1	013962	.	.	.	.	.	.	.	LOOPFORMER AND LOCK PAWL ASSEMBLY, . Upper	1	
-1A	99828	.	.	.	.	.	.	.	RING, Retaining, external, 0.062 inch ID . . . .	2	
-1B	37303	.	.	.	.	.	.	.	SHAFT, Locking pawl . . . . .	1	
-1C	37304	.	.	.	.	.	.	.	SPRING, Tension . . . . .	1	
-1D	30164	.	.	.	.	.	.	.	SCREW, Binding head, 4-40 by 3/16 inch . . . .	1	
-1E	37302	.	.	.	.	.	.	.	PAWL, Locking . . . . .	1	
-1F	012134	.	.	.	.	.	.	.	HUB ASSEMBLY, Pawl bracket . . . . .	1	
-1G	012133	.	.	.	.	.	.	.	LOOPFORMER ASSEMBLY, Upper . . . . .	1	
-2	30808	.	.	.	.	.	.	.	SCREW, Hex head washer, 6-32 by 5/16 inch . .	1	
-3	21238	.	.	.	.	.	.	.	WASHER, Flat . . . . .	1	
-4	36044	.	.	.	.	.	.	.	SPRING, Torsion . . . . .	1	
-5	36801	.	.	.	.	.	.	.	SCREW, Sems, 6-32 by 1/4 inch . . . . .	1	
-6	21238	.	.	.	.	.	.	.	WASHER, Flat . . . . .	1	
-7	011249	.	.	.	.	.	.	.	CAM FOLLOWER AND SUPPORT ASSEMBLY . .	1	
-7A	31555	.	.	.	.	.	.	.	SCREW, Pan head, 3-56 by 3/16 inch . . . . .	2	
-7B	31474	.	.	.	.	.	.	.	BRACKET, Alignment . . . . .	1	
-7C	36027	.	.	.	.	.	.	.	SPRING, Cam follower . . . . .	2	
-7D	36099	.	.	.	.	.	.	.	DAMPER, Spring . . . . .	1	
-7E	36047	.	.	.	.	.	.	.	FOLLOWER, Cam . . . . .	1	
-7F	36028	.	.	.	.	.	.	.	SUPPORT, Cam follower . . . . .	1	
-8	33347	.	.	.	.	.	.	.	SCREW, Hex head cup pt, 6-32 by 1/4 inch . . . .	1	
-9	011250	.	.	.	.	.	.	.	ARM ASSEMBLY . . . . .	1	
-10	34878	.	.	.	.	.	.	.	WASHER, Flat . . . . .	1	
-11	31551	.	.	.	.	.	.	.	SCREW, Pan head, 5-40 by 1/4 inch . . . . .	2	
-12	31977	.	.	.	.	.	.	.	WASHER, Lock . . . . .	2	
-13	31020	.	.	.	.	.	.	.	WASHER, Flat . . . . .	2	
-14	011248	.	.	.	.	.	.	.	SELF-CENTERING ASSEMBLY . . . . .	1	
-15	31049	.	.	.	.	.	.	.	SCREW, Binding head, 6-32 by 1/4 inch . . . . .	2	
-16	No Number	.	.	.	.	.	.	.	APERTURE PLATE ASSEMBLY (See Figure 18 . for parts)	NP	
-17	710476	.	.	.	.	.	.	.	LABEL, Rewind instruction . . . . .	1	
-18	41342	.	.	.	.	.	.	.	SCREW, Hex washer head, 10-32 by 1/4 inch . . .	1	
-19	30164	.	.	.	.	.	.	.	SCREW, Binding head, 4-40 by 3/16 inch . . . .	1	
-20	35840	.	.	.	.	.	.	.	ROLLER, Plain . . . . .	1	
-21	20808	.	.	.	.	.	.	.	RING, Retaining, 0.145 inch ID . . . . .	1	
-22	011219	.	.	.	.	.	.	.	LEVER AND SHAFT ASSEMBLY . . . . .	1	

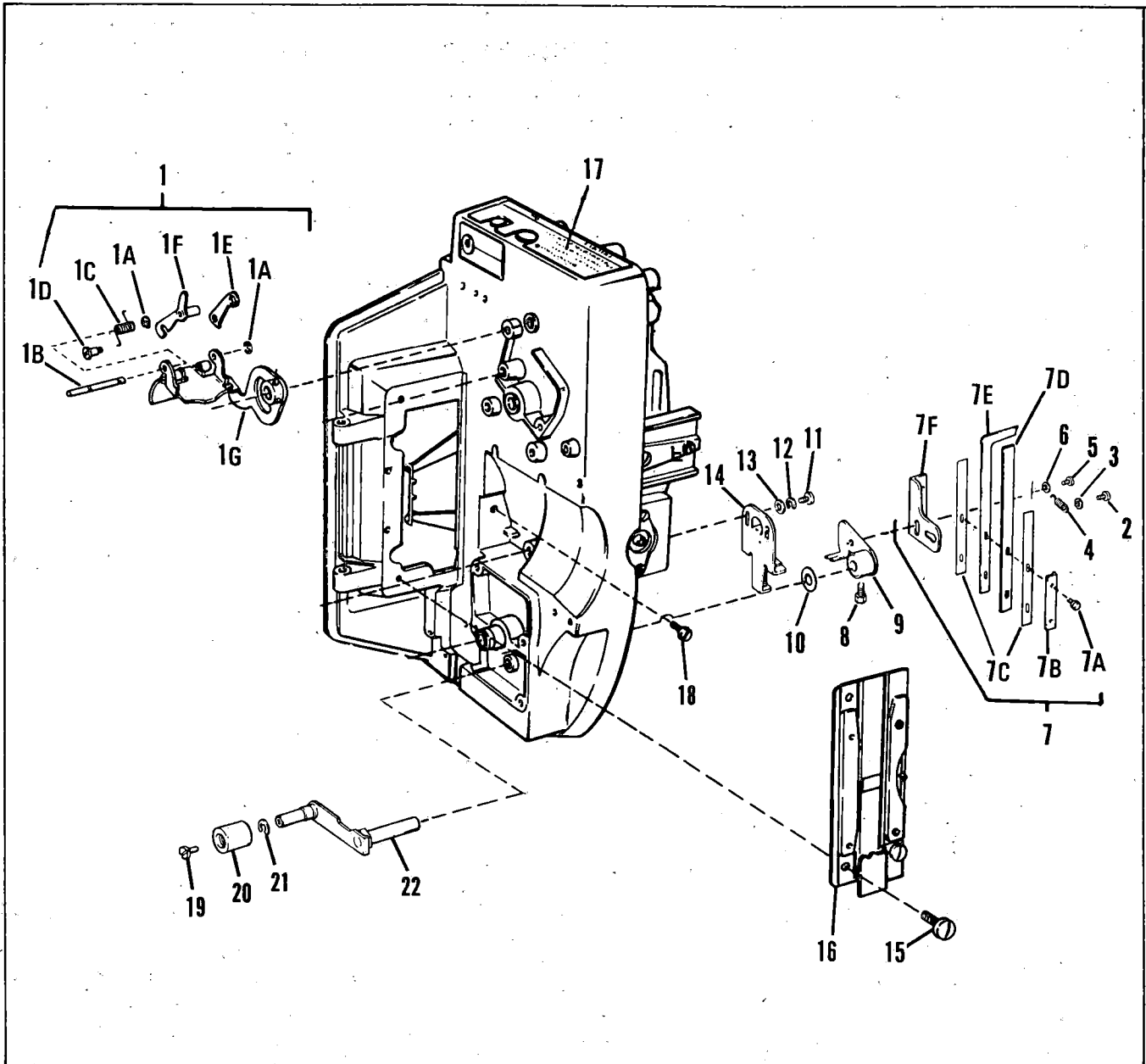


Figure 15B. Mechanism Assembly — View II

CODE	A	B	C	D	E	F	G	H
MODEL	2585A	2585AML	2585AX	2585AXU	2590A	2592A	2592AX	2592ASX

FIG. & INDEX NO.	PART NO.	DESCRIPTION							UNITS PER ASSY	USABLE ON CODE
		1	2	3	4	5	6	7		
MECHANISM ASSEMBLY (VIEW III)										
16-1	36770	.	SETScrew	Fluted socket cup pt,	8-32 by 1/4 inch				2	
-2	44261	.	PULLEY	Mechanism					1	
-3	30809	.	SCREW	Hex washer head,	6-32 by 3/8 inch				4	
-4	078150	.	HEAT SHUTTER ASSEMBLY						1	ABCDE
-4	078230	.	HEAT SHUTTER ASSEMBLY						1	FGH
-4A	31143	.	SPRING	Tension					1	FGH
-4B	710399	.	SPRING	Filter retainer					1	FGH
-4C	31407	.	DISC	Heat filter					1	FGH
-4D	204129	.	FILTER	Heat					1	FGH
-4E	710540	.	SPRING	Lampholder					1	
-5	30809	.	SCREW	Hex washer head,	6-32 by 3/8 inch				2	
-6	36662	.	BAFFLE	Heat					1	
-7	31005	.	NUT	Shutter					1	
-8	31037	.	WEIGHT	Counterbalance					1	
-9	41308	.	SHUTTER	3-blade					1	AEF
-9	41309	.	SHUTTER	2-blade					1	BCDGH
-10	34797	.	WASHER	Fiber					1	
-11	46464	.	NUT	Hex					2	
-12	011886	.	BALL AND STUD ASSEMBLY						2	
-13	36015	.	SPRING	Extension					1	
-14	36013	.	WIPER	Felt					1	
-15	36014	.	WICK	Felt					1	
-16	31557	.	SHUTTLE						1	
-17	011235	.	ARM AND BEARING ASSEMBLY	Shuttle					2	
-17A	31011	.	BEARING	Shuttle link					2	
-17B	31003	.	FOLLOWER	Pull-down cam					2	
-18	41307	.	CAM	Pull-down					1	
-19	36668	.	SCREW	Pan head Sems,	6-32 by 5/16 inch				2	
-20	31001	.	CAM	In-out					1	
-21	011236	.	BRACKET ASSEMBLY	In-out cam					1	
-21A	09702	.	FOLLOWER	In-out cam					1	
-21B	707211	.	SPRING	Tension, in-out cam					1	
-22	30817	.	SCREW	Hex washer head,	8-32 by 1/2 inch				2	
-23	013917	.	PLATE ASSEMBLY	Shuttle arm					1	
-24	09712	.	SUPPORT ASSEMBLY	Bearing					1	
-24A	31061	.	NUT	Special (Staked in item 23)					1	
-25	36048	.	PIN	Stop, framer					1	
-26	078581	.	KNOB AND SHAFT ASSEMBLY	Framer					1	
-27	30801	.	SCREW	Hex washer head,	2-56 by 3/16 inch				1	
-28	709860	.	SPRING	Pin return					1	
-29	709859	.	PIN	Shuttle retractor					1	
-30	20808	.	RING	Retaining, external,	0.145 inch ID				2	FGH
-31	31396	.	SHAFT	Stop pawl					1	FGH
-32	48177	.	PAWL	Stop					1	FGH
-33	30807	.	SCREW	Hex washer head,	6-32 by 1/4 inch				2	FGH
-34	44327	.	BRACKET	Bearing					1	F
-34	31398	.	BRACKET	Bearing					1	GH
-34A	710504	.	BRACKET	Stop					1	GH
-35	41377	.	SCREW	Shoulder					2	FGH
-36	077921	.	BRACKET ASSEMBLY	Stop pawl shaft					1	FGH
-36A	24852	.	GROMMET	Rubber					1	FGH
-36B	44325	.	BRACKET	Stop pawl					1	FGH
G	070034		GREASE	L2	070032	OIL				
L1	04978		OIL	L3	08962	OIL				

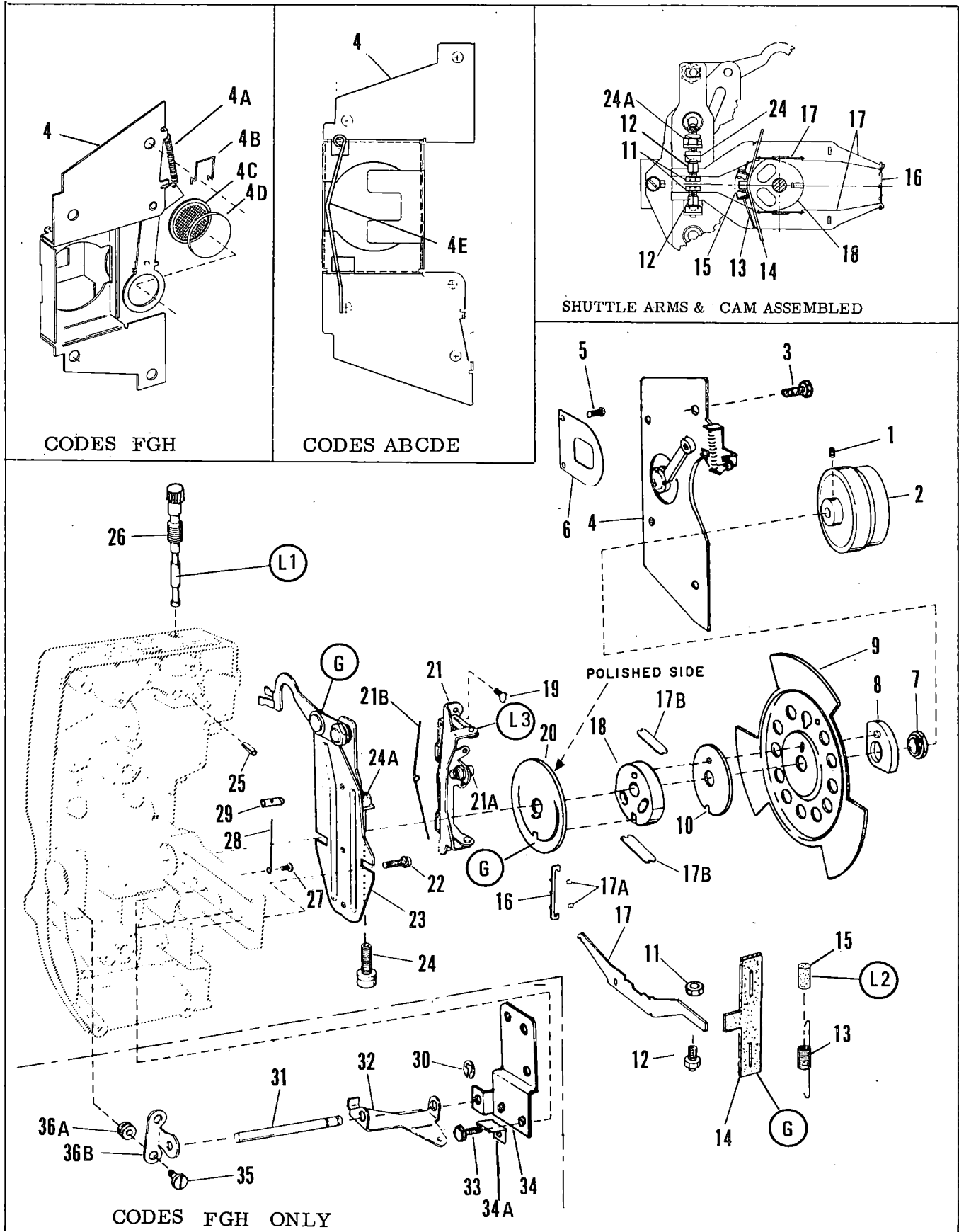


Figure 16. Mechanism Assembly — View III

Revised Dec. 1980



CODE	A	B	C	D	E	F	G	H
MODEL	2585A	2585AML	2585AX	2585AXU	2590A	2592A	2592AX	2592ASX

FIG. & INDEX NO.	PART NO.	1	2	3	4	5	6	7	DESCRIPTION	UNITS PER ASSY	USABLE ON CODE
------------------------	-------------	---	---	---	---	---	---	---	-------------	----------------------	----------------------

MECHANISM ASSEMBLY (VIEW IV)

17-1	709756	.							NUT, Round . . . . .	1	FGH
-2	31020	.							WASHER, Flat . . . . .	1	FGH
-3	31048	.							BRACKET, Shuttle adjustment . . . . .	1	FGH
-4	31976	.							SCREW, Pan head, 5-40 by 0.312 inch . . . . .	1	FGH
-5	30162	.							SCREW, Binding head, 5-40 by 3/8 inch . . . . .	1	FGH
-6	31977	.							WASHER, Lock . . . . .	1	FGH
-7	09870	.							BRACKET ASSEMBLY, Animated clutch . . . . .	1	FGH
-7A	31405	.							SETSCREW, Fluted socket oval pt, 4-40 by 3/8 in. . . . .	1	FGH
-7B	17639	.							RING, Retaining, external, 0.125 inch ID . . . . .	3	FGH
-7C	31403	.							SHAFT, Clutch bracket . . . . .	1	FGH
-7D	31399	.							BUMPER, Slide . . . . .	1	FGH
-7E	31456	.							WASHER, Flat . . . . .	1	FGH
-7F	31036	.							SPRING, Compression . . . . .	1	FGH
-7G	09886	.							BAR ASSEMBLY, Clutch slide . . . . .	1	FGH
-7H	30803	.							SCREW, Strike, 4-40 hex washer head . . . . .	1	FGH
-7J	41318	.							STRIKE . . . . .	1	FGH
-7K	09885	.							BRACKET ASSEMBLY, Clutch . . . . .	1	FGH
-8	31009	.							RING, Retaining, internal, bowed, 0.866 inch ID . . . . .	1	
-9	30804	.							SCREW, Hex washer head, 4-40 by 1/4 inch. . . . .	2	
-10	710436	.							SPRING, Bearing loading . . . . .	1	
-11	36763	.							SETSCREW, Fluted socket cup pt, 6-32 by 1/8 inch . . . . .	1	
-12	31007	.							BEARING, Ball . . . . .	1	
-13	09710	.							CLUTCH ASSEMBLY, Driver . . . . .	1	FGH
-14	31035	.							SPRING, Torsion, clutch . . . . .	1	FGH
-15	09711	.							CLUTCH ASSEMBLY, Driven . . . . .	1	FGH
-16	21736	.							RING, Retaining, external, 0.207 inch ID . . . . .	2	FGH
-17	31029/44205	.							WASHER, Shim . . . . .	AR	FGH
-18	31400	.							BEARING, Sleeve . . . . .	1	FGH
-19	31145	.							TRIGGER . . . . .	1	FGH
-20	31149	.							PIN, Shoulder . . . . .	2	FGH
-21	31147	.							YOKE, Clutch . . . . .	1	FGH
-22	31148	.							SPRING, Compression . . . . .	1	FGH
-23	09728	.							BEARING ASSEMBLY . . . . .	1	FGH
-24	012666	.							WORM GEAR ASSEMBLY . . . . .	1	ABCDE
-24	09709	.							WORM GEAR ASSEMBLY . . . . .	1	FGH
-24A	36769	.							SETSCREW, Fluted socket cup pt, 8-32 by 1/4 in. . . . .	2	ABCDE
-25	31031	.							BUSHING, Rubber . . . . .	3	FGH
-26	31029/44205	.							WASHER, Shim . . . . .	AR	FGH
-27	36042	.							CAM, Loop restorer . . . . .	1	
-28	No Number	.							CAMSHAFT AND BEARING ASSEMBLY . . . . .	NP	FGH
-28	No Number	.							CAMSHAFT AND BEARING ASSEMBLY . . . . .	NP	ABCDE
-28A	31078	.							RING, Retaining, bowed, 0.312 inch ID . . . . .	1	
-28B	31006	.							BEARING, Ball . . . . .	1	
-28C	36065	.							CAMSHAFT . . . . .	1	ABCDE
-28C	36039	.							CAMSHAFT . . . . .	1	FGH
-29	078199	.							HOUSING ASSEMBLY, Mechanism . . . . .	1	ABCDE
-29	078147	.							HOUSING ASSEMBLY, Mechanism . . . . .	1	FGH
G	070043	.							GREASE		FGH

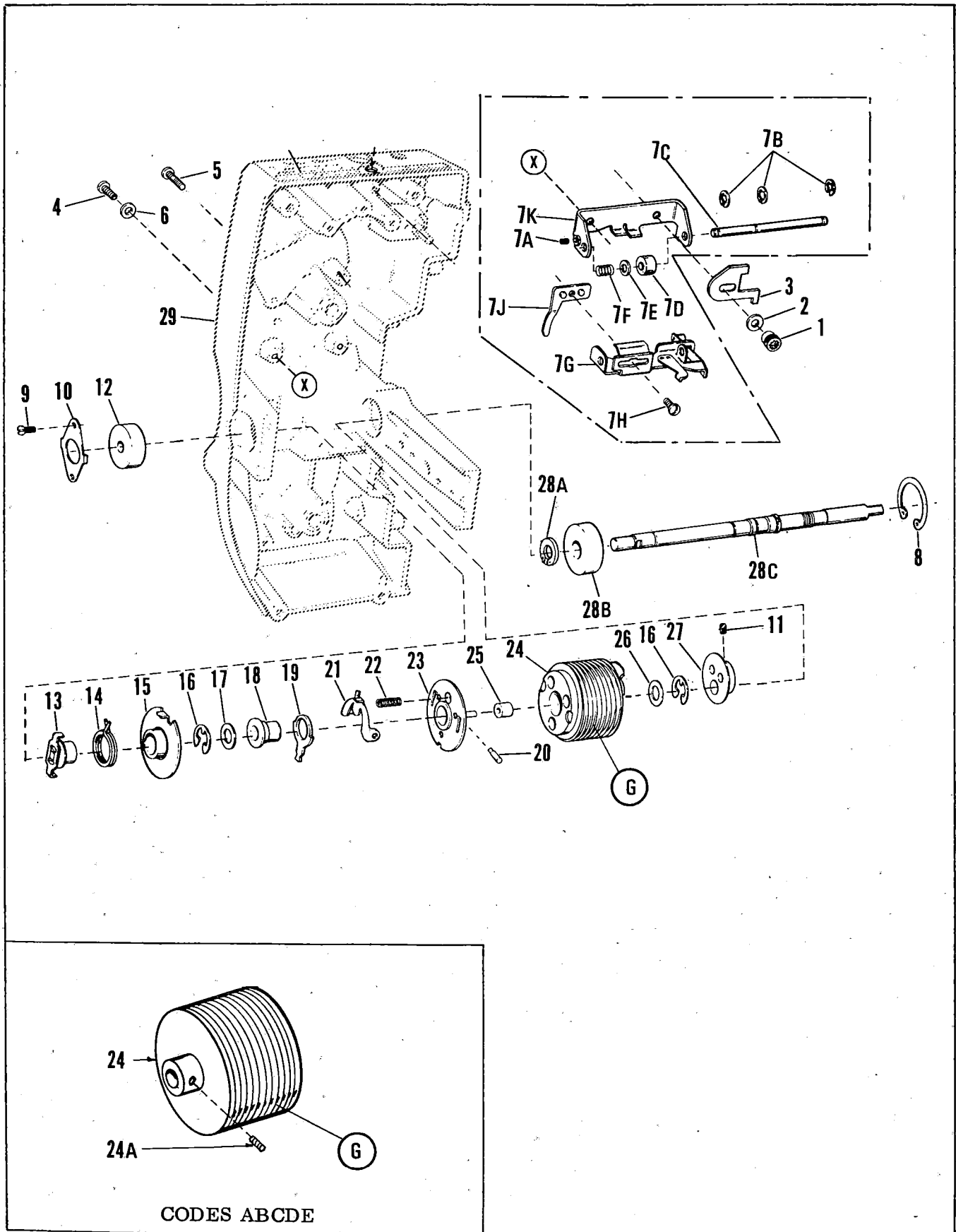


Figure 17. Mechanism Assembly — View IV

CODE	A	B	C	D	E	F	G	H
MODEL	2585A	2585AML	2585AX	2585AXU	2590A	2592A	2592AX	2592ASX

FIG. & INDEX NO.	PART NO.	1	2	3	4	5	6	7	DESCRIPTION	UNITS PER ASSY	USABLE ON CODE
------------------------	-------------	---	---	---	---	---	---	---	-------------	----------------------	----------------------

### APERTURE PLATE ASSEMBLY

18-	No Number	APERTURE PLATE ASSEMBLY (See Figure 15 . . . for mounting)							REF	
-1	31978	. SCREW, Slotted pan head, 3-56 by 1/8 inch . . . .							2	
-2	36064	. RAIL, Film guide . . . . .							1	
-3	37296	. SCREW, Slotted pan head, 3-56 by 1/4 inch . . . .							2	
-4	012132	. PLATE, Aperture . . . . .							1	
-5	48432	. BUSHING, Spacer . . . . .							2	
-6	37293	. RAIL, Film tension . . . . .							1	
-7	31135	. SPRING, Side tension . . . . .							1	
-8	31978	. SCREW, Slotted pan head, 3-56 by 1/8 inch . . . .							1	
-9	36075	. GUIDE, Film . . . . .							1	

### COVER AND SPEAKERS ASSEMBLY

19-	No Number	COVER AND SPEAKER ASSEMBLY . . . . .							REF	DH
-1	765460	. RIVET, Semi-tubular . . . . .							4	DH
-2	45083	. LATCH, Cover release . . . . .							2	DH
-3	707751	. SPRING, Latch . . . . .							2	DH
-4	49284	. PLATE, Stiffener . . . . .							1	DH
-5	710448	. NAMEPLATE, Cover (adhesive backed) . . . . .							1	DH
-6	10417	. SCREW, Slotted flat head . . . . .							1	DH
-7	308650	. NUT, Hex Sems . . . . .							1	DH
-8	707414	. CLAMP, Leadwire . . . . .							1	DH
-9	709848	. COVER, Front . . . . .							1	DH
-10	45102	. NUT, Tinnermann . . . . .							7	DH
-11	No Number	. BAFFLE BOARD ASSEMBLY . . . . .							NP	DH
-12	710810	. . SCREW, Slotted flat head . . . . .							8	DH
-13	35164	. . NUT, Plain hex . . . . .							8	DH
-14	440662	. . SPEAKER . . . . .							2	DH
-15	707415	. . PLUG AND CORD, Speaker . . . . .							1	DH
-16	707413	. . NAMEPLATE, Speaker . . . . .							1	DH
-17	710650	. . CUSHION (Cement in place) . . . . .							1	DH
-18	707770	. . CUSHION (Cement in place) . . . . .							1	DH
-19	710651	. . GRILLE CLOTH (Cement in place) . . . . .							1	DH
-20	707416	. . SCREW, Slotted flat head . . . . .							4	DH
-21	436895	. . CORD WRAP . . . . .							1	DH
-22	31561	. FOOT, Tilt bar (secure with adhesive) . . . . .							2	DH
-23	710682	. DAMPER, Vibration (adhesive backed) . . . . .							1	DH
A	70509	ADHESIVE								

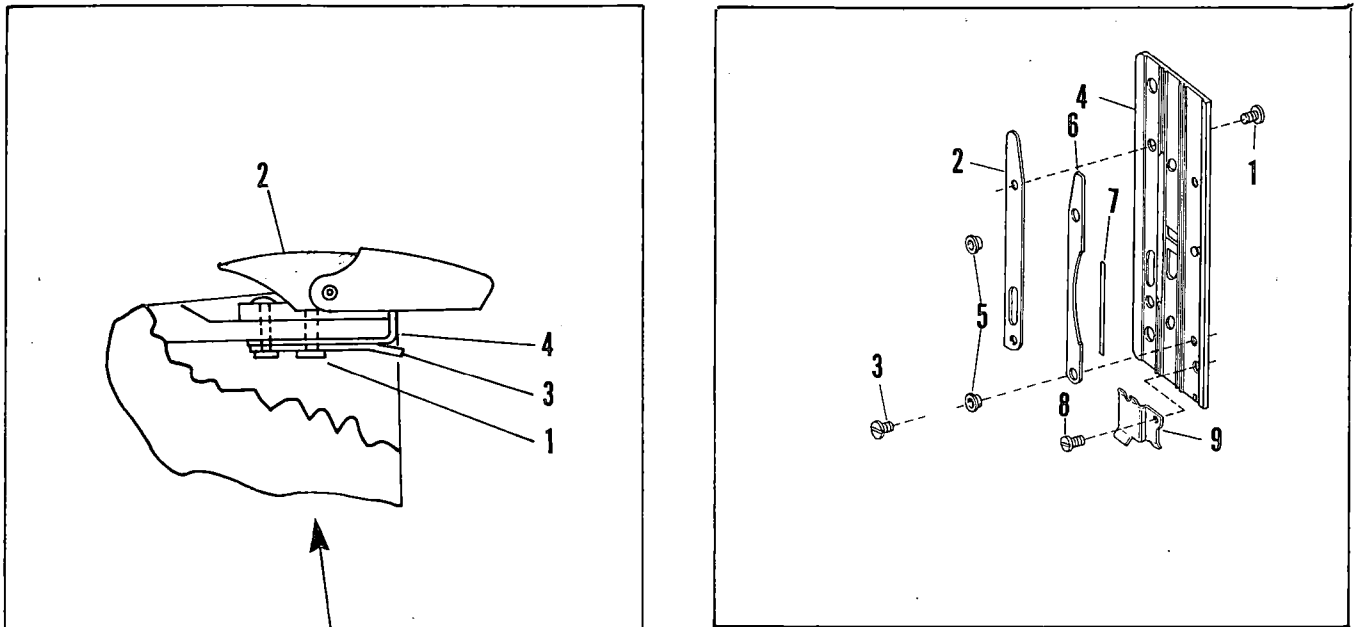


Figure 18. Aperture Plate Assembly

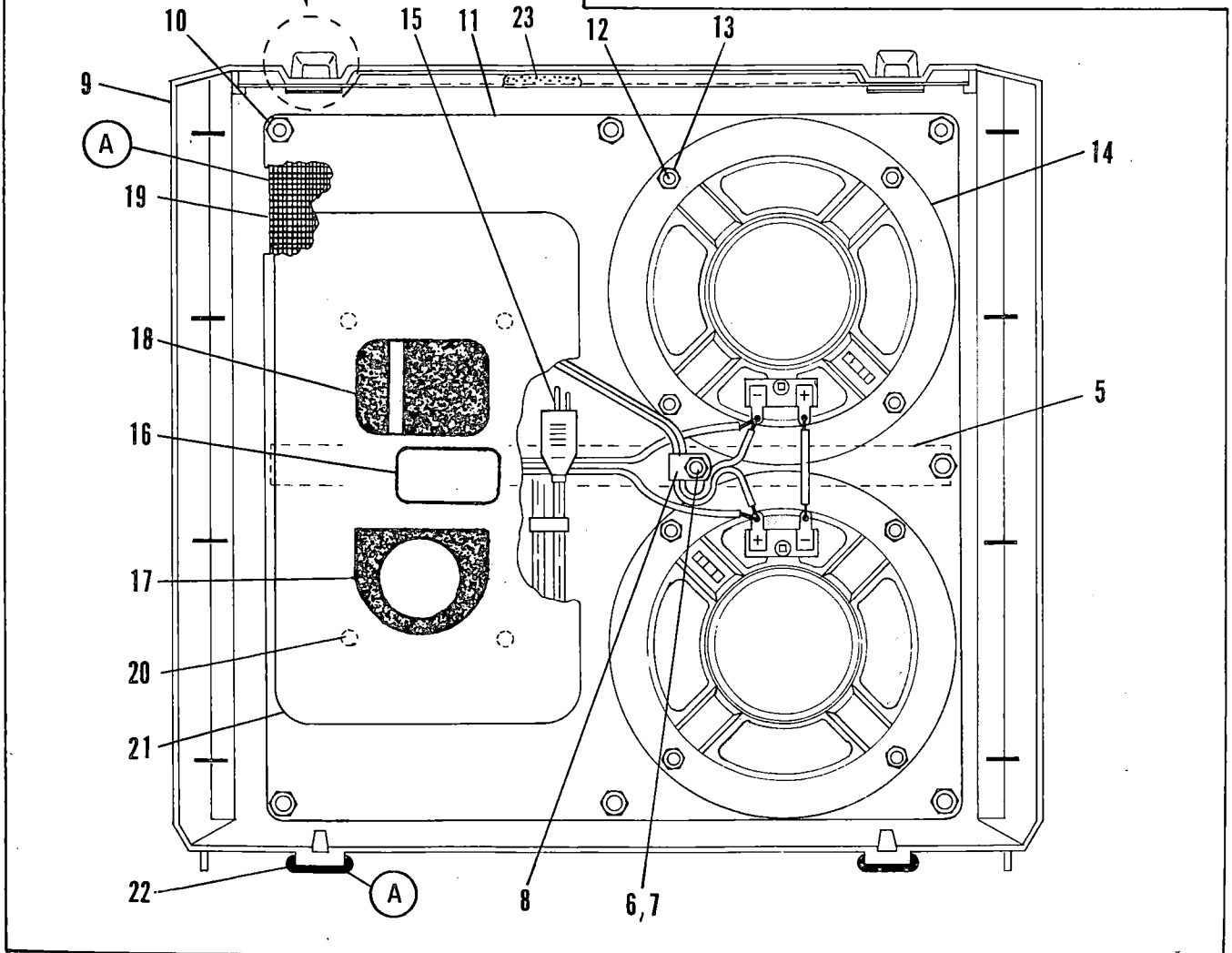


Figure 19. Cover and Speakers Assembly

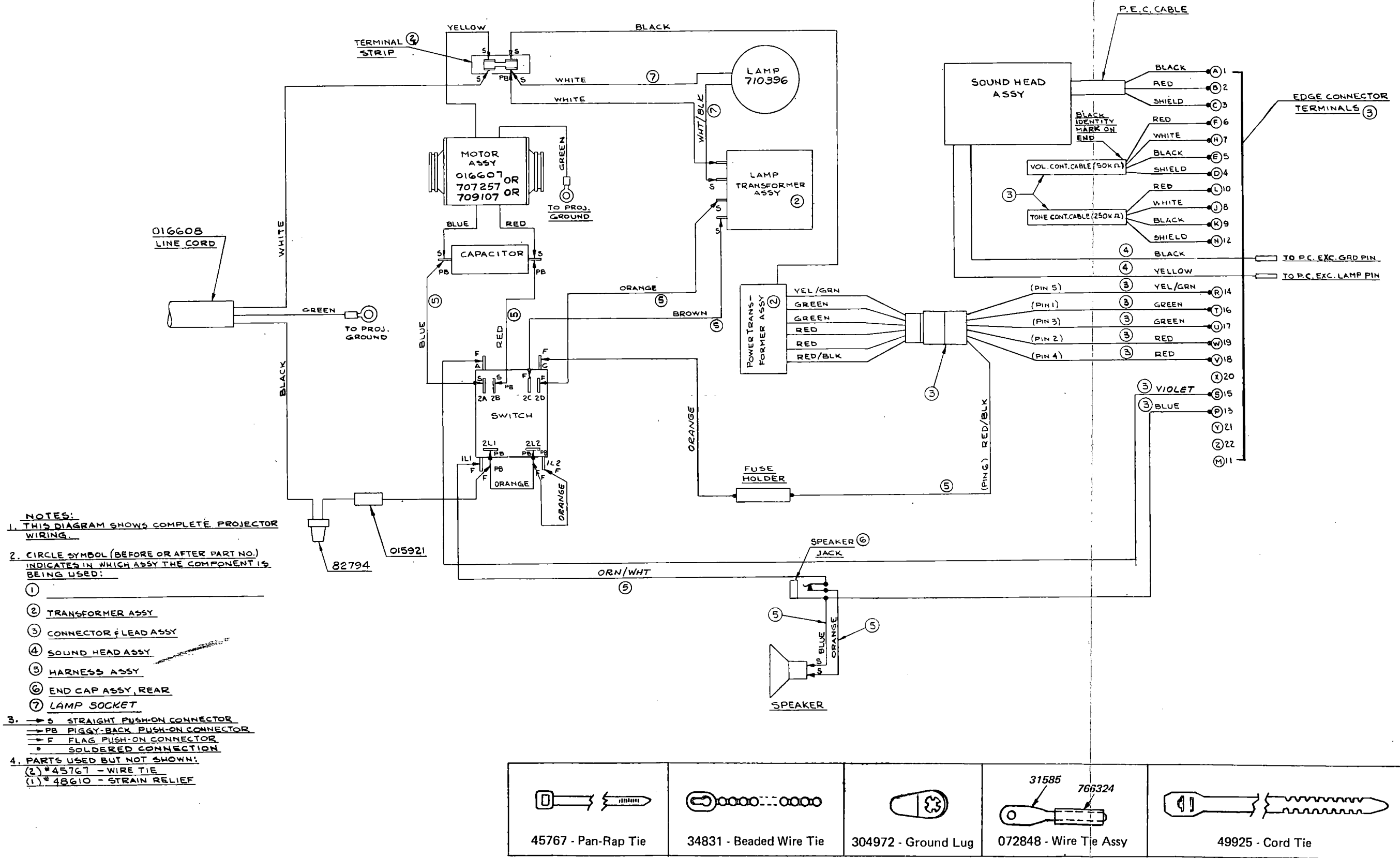


Figure 20A. Pictorial Wiring Diagram for Model 2585A

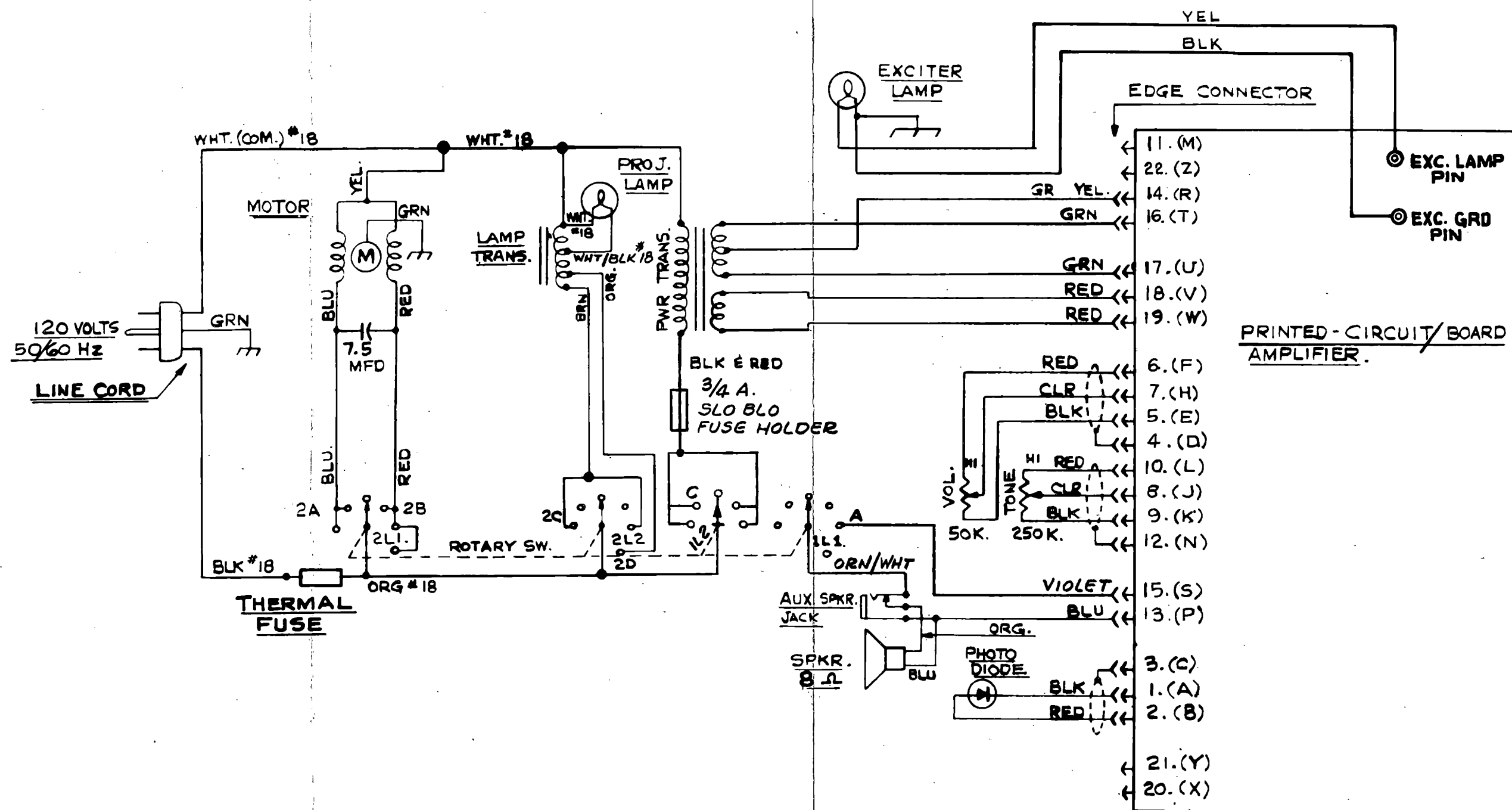
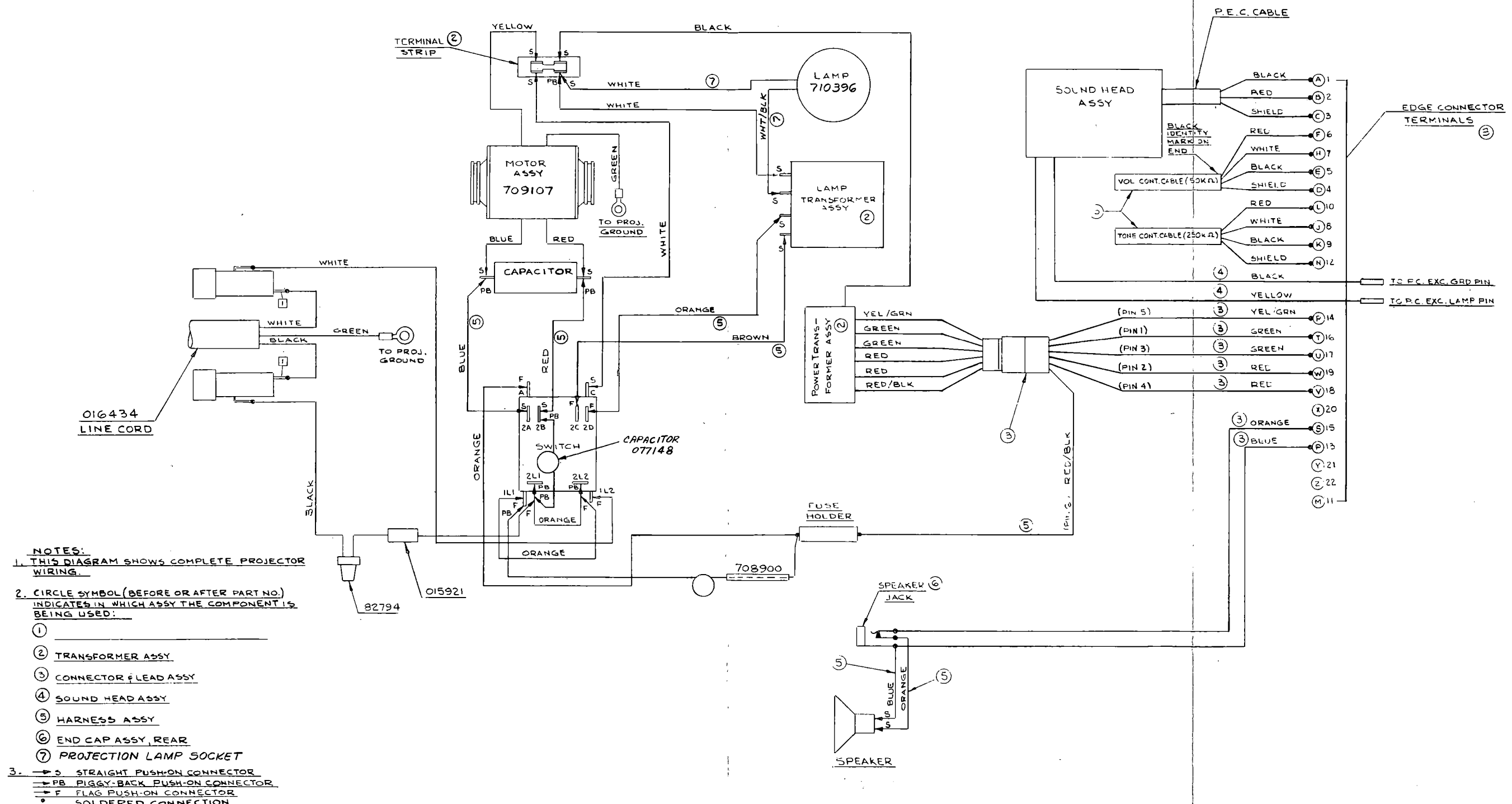


Figure 20B. Schematic Wiring Diagram for Model 2585A



- NOTES:**
- THIS DIAGRAM SHOWS COMPLETE PROJECTOR WIRING.
  - CIRCLE SYMBOL (BEFORE OR AFTER PART NO.) INDICATES IN WHICH ASSY THE COMPONENT IS BEING USED:
    - ① \_\_\_\_\_
    - ② TRANSFORMER ASSY.
    - ③ CONNECTOR & LEAD ASSY.
    - ④ SOUND HEAD ASSY.
    - ⑤ HARNESS ASSY.
    - ⑥ END CAP ASSY, REAR.
    - ⑦ PROJECTION LAMP SOCKET.
  - S STRAIGHT PUSH-ON CONNECTOR
    - PB PIGGY-BACK PUSH-ON CONNECTOR
    - F FLAG PUSH-ON CONNECTOR
    - SOLDERED CONNECTION
  - PARTS USED BUT NOT SHOWN:
    - (2) #45767 - WIRE TIE
    - (1) #48610 - STRAIN RELIEF
    - (2) #42453 - SLEEVING

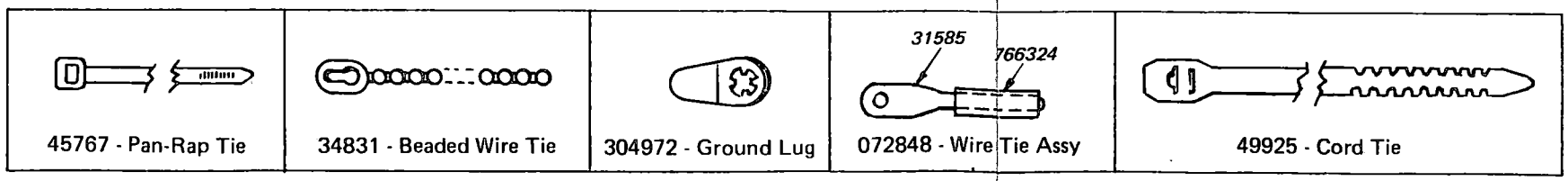


Figure 21A. Pictorial Wiring Diagram for Model 2585AML

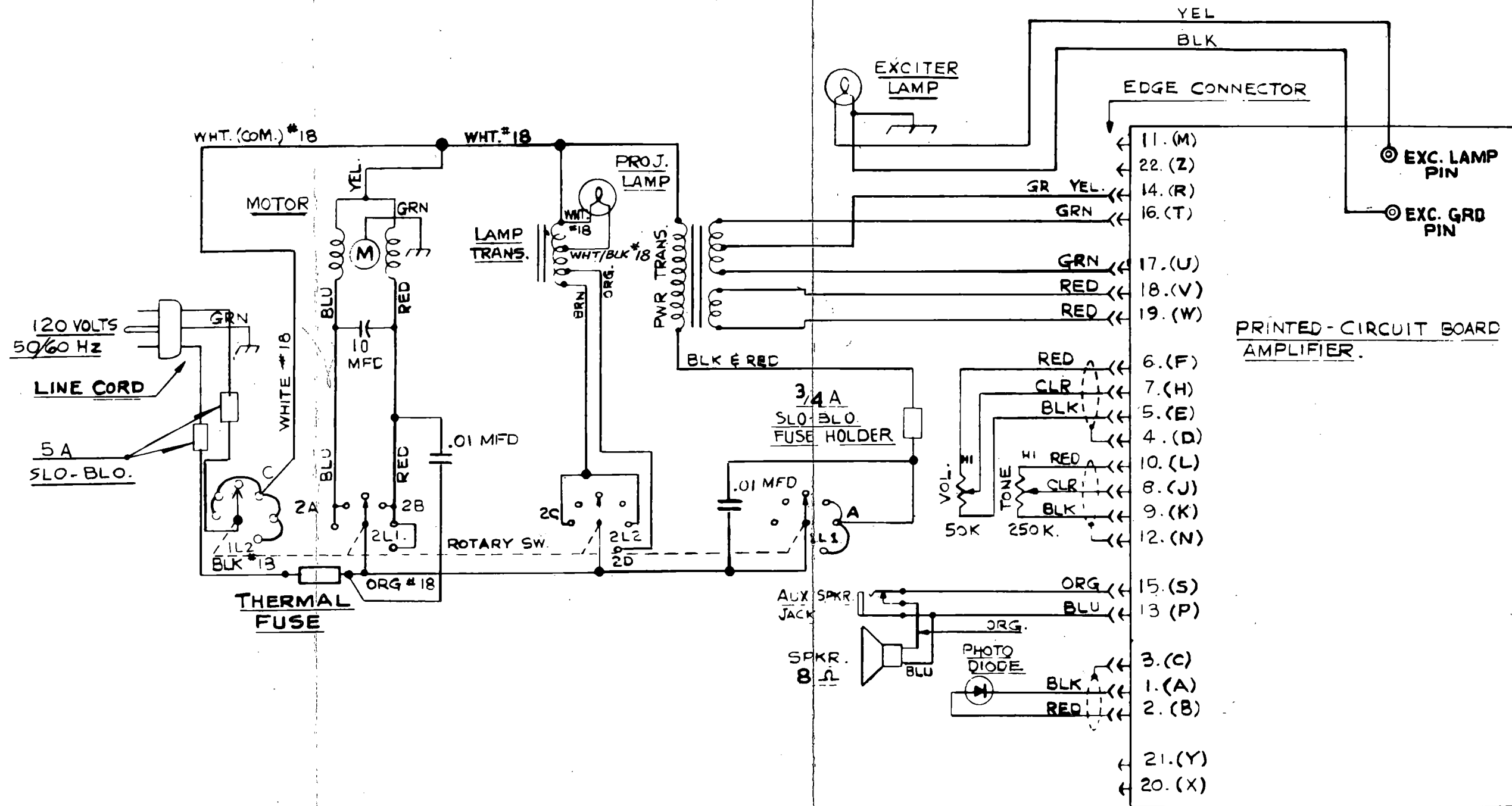


Figure 21B. Schematic Wiring Diagram for Model 2585AML





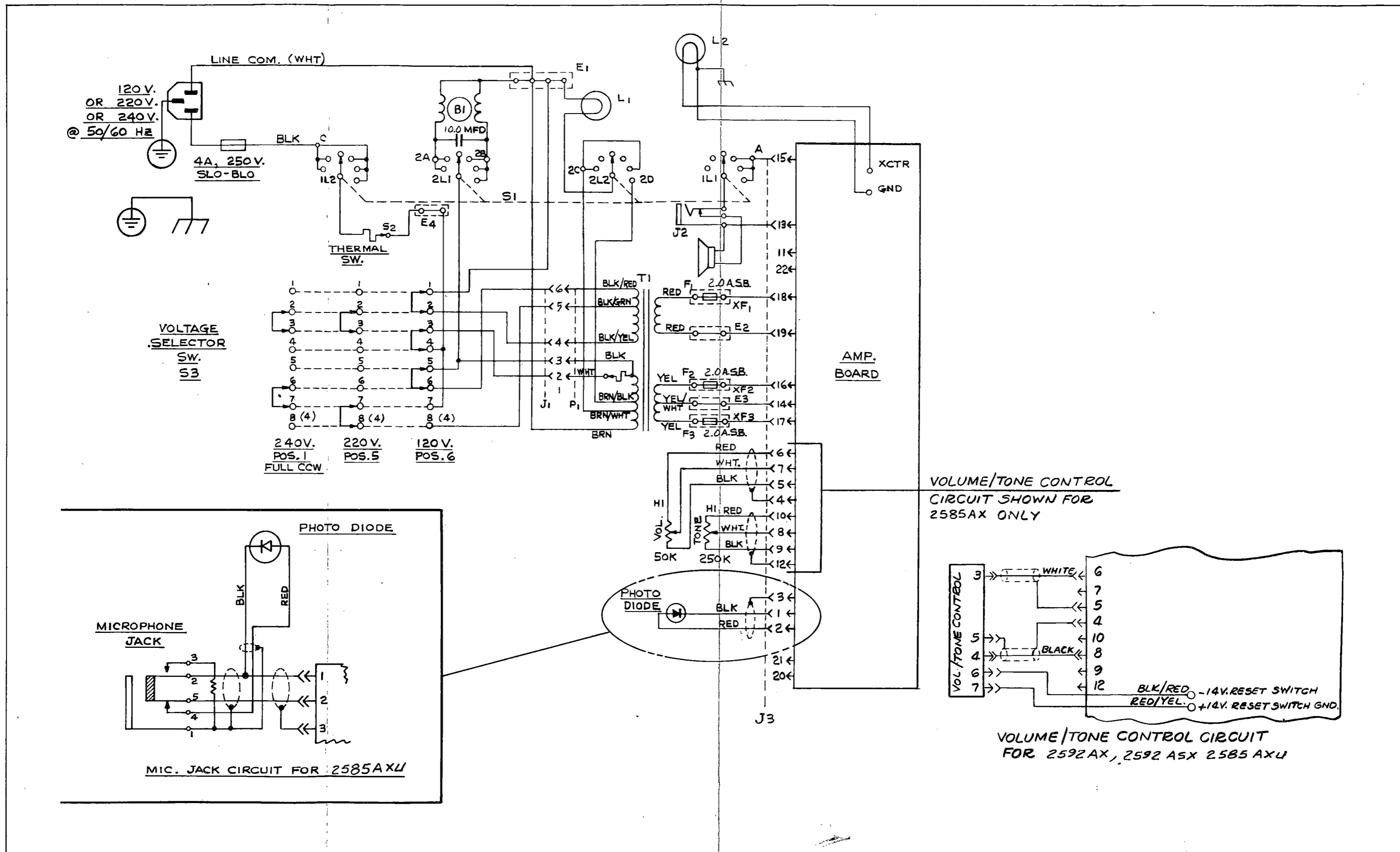
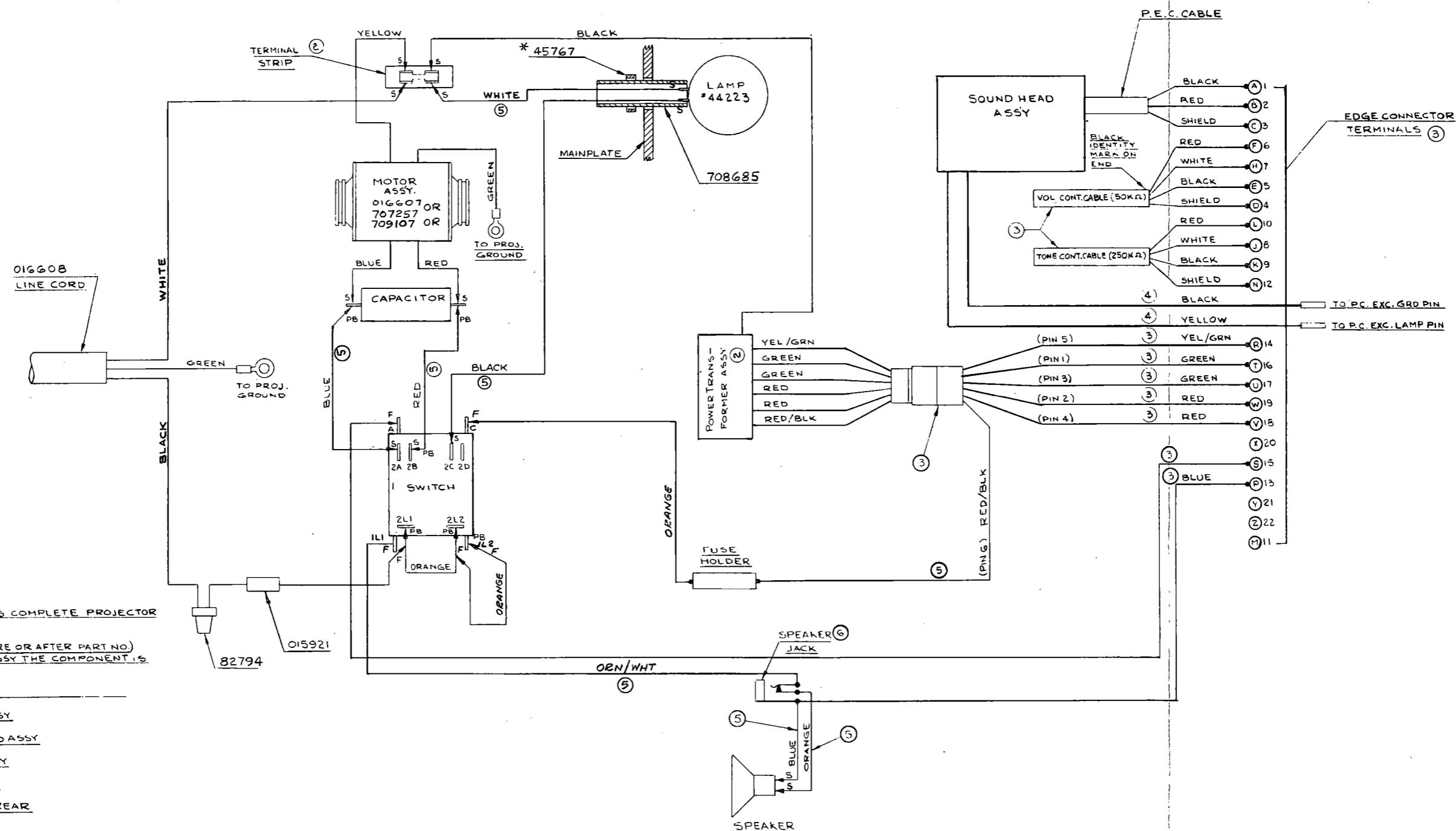


Figure 22B. Schematic Wiring Diagram for Models 2585AX, 2585AXU, 2592AX and 2592ASX



**NOTES:**  
THIS DIAGRAM SHOWS COMPLETE PROJECTOR WIRING.

CIRCLE SYMBOL (BEFORE OR AFTER PART NO.) INDICATES IN WHICH ASSY THE COMPONENT IS BEING USED:

- ① \_\_\_\_\_
- ② TRANSFORMER ASSY
- ③ CONNECTOR & LEAD ASSY
- ④ SOUND HEAD ASSY
- ⑤ HARNESS ASSY
- ⑥ END CAP ASSY, REAR

→ S STRAIGHT PUSH-ON CONNECTOR  
→ PB PIGGY-BACK PUSH-ON CONNECTOR  
→ F FLAG PUSH ON CONNECTOR  
• SOLDERED CONNECTION

PARTS USED BUT NOT SHOWN:  
(2) \*45767 - WIRE TIE  
(1) \*48610 - STRAIN RELIEF

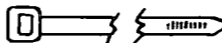


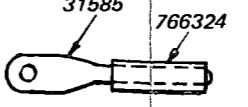
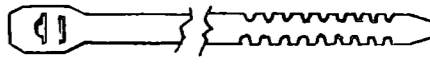
 45767 - Pan-Rap Tie	 34831 - Beaded Wire Tie	 304972 - Ground Lug	 072848 - Wire Tie Assy	 49925 - Cord Tie
--	--	--	---	---

Figure 23A. Pictorial Wiring Diagram for Model 2590A

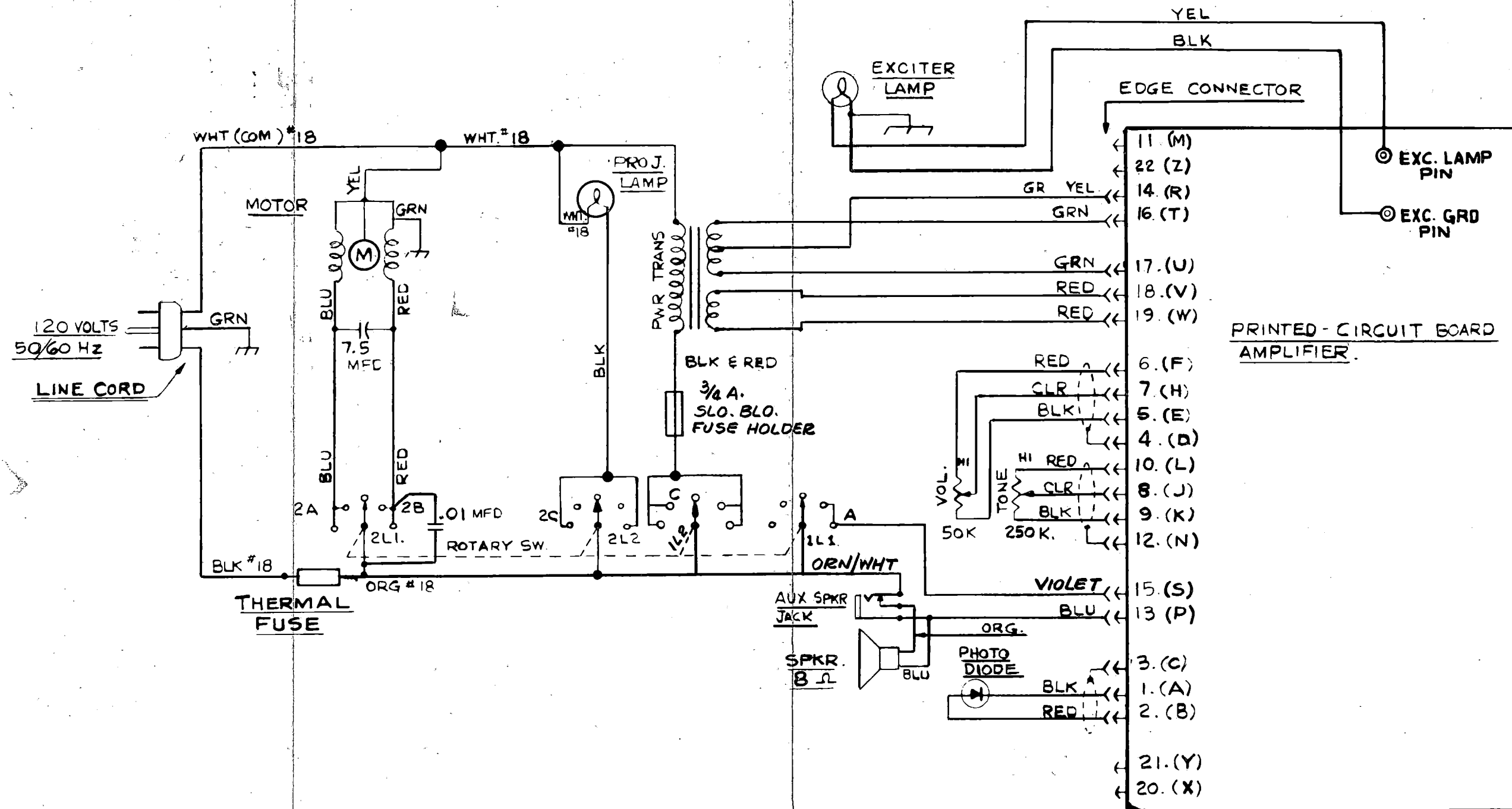


Figure 23B. Schematic Wiring Diagram for Model 2590A

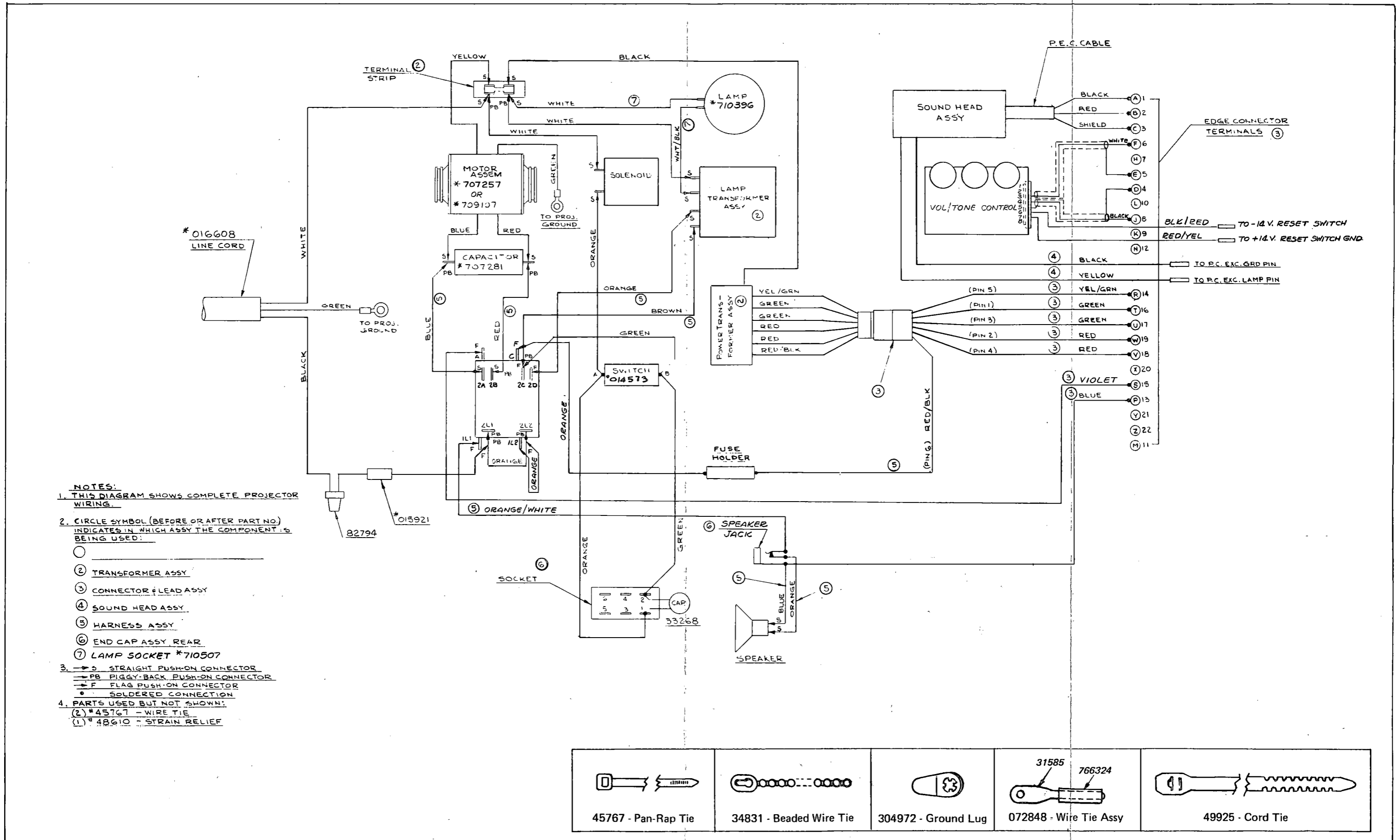


Figure 24A. Pictorial Wiring Diagram for Model 2592A

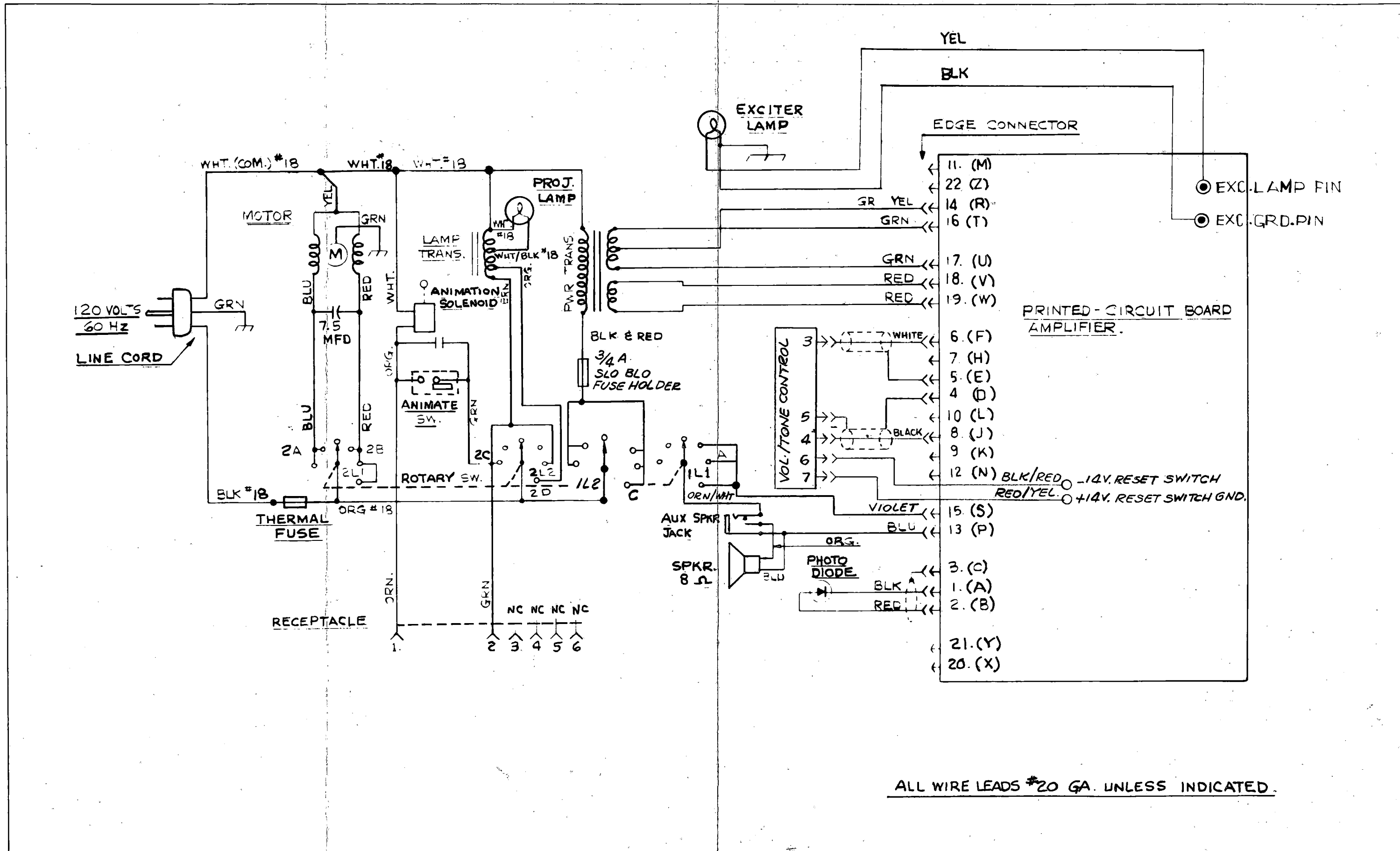
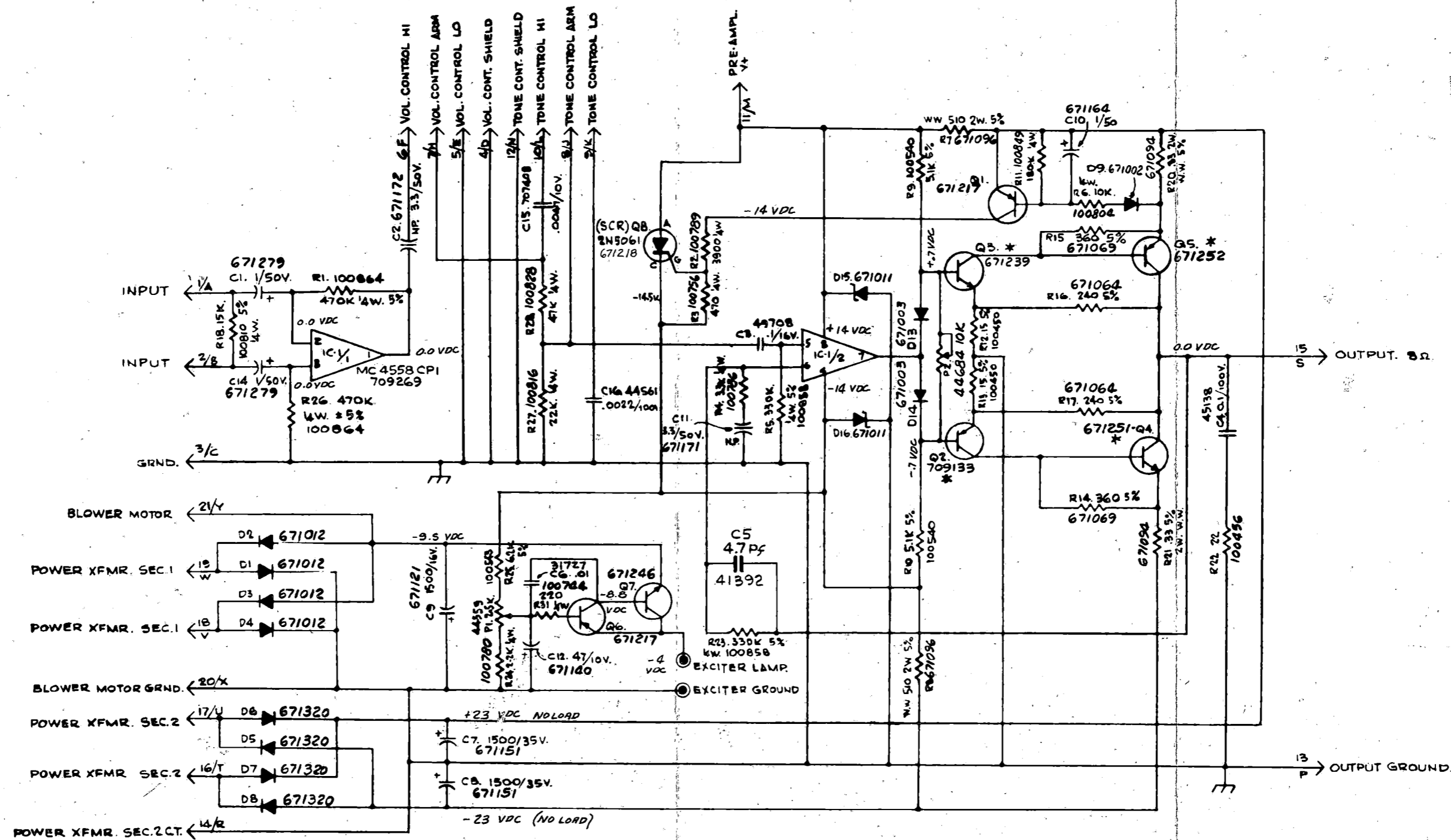


Figure 24B. Schematic Wiring Diagram for Model 2592A

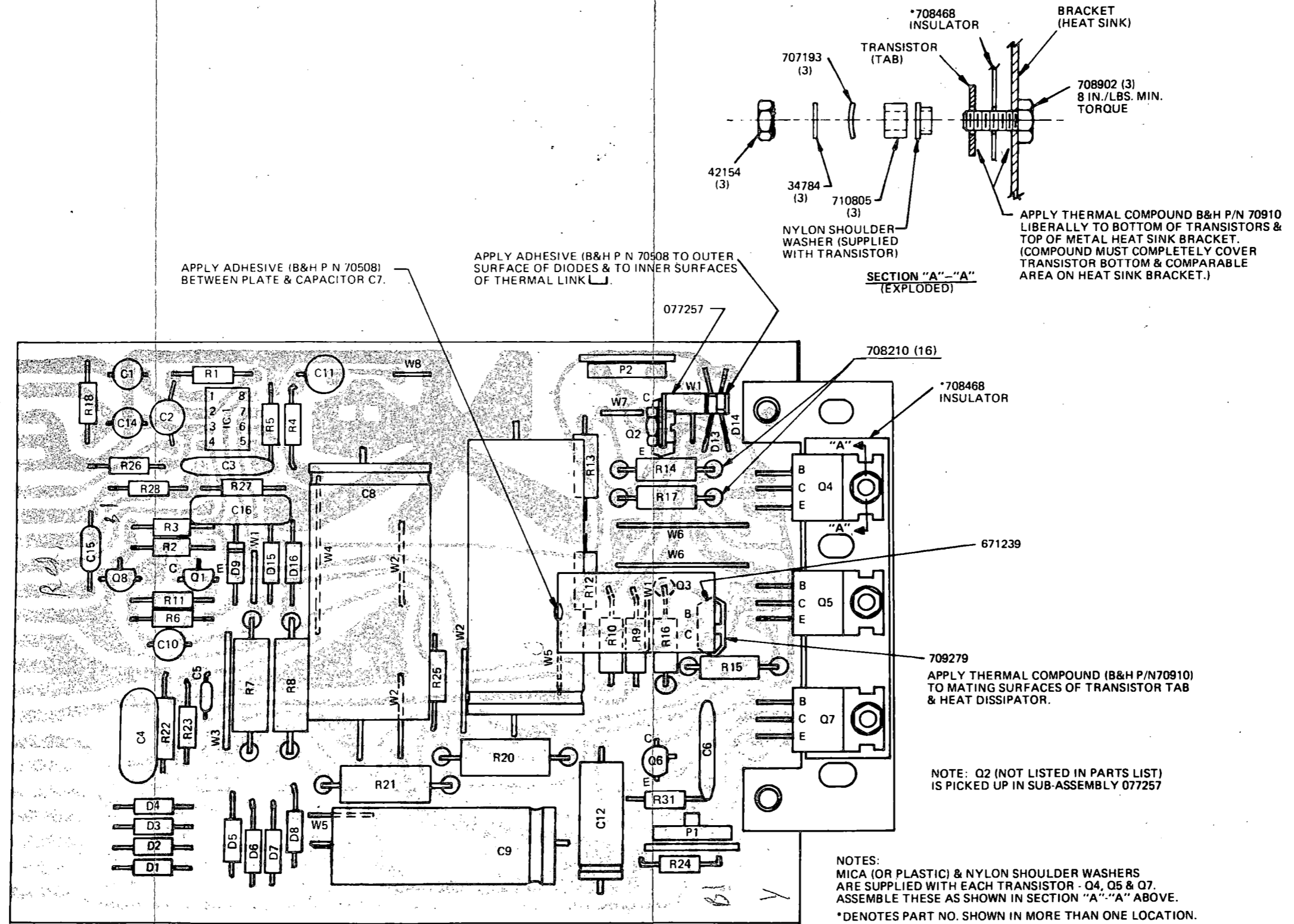


**NOTES \***

- ALL RESISTORS 1/2WATT CARBON FILM ±10% UNLESS OTHERWISE INDICATED.
- ALL CAPACITANCES IN MICROFARADS UNLESS OTHERWISE INDICATED
- NUMBERS AT CONNECTOR ENDS CORRESPOND TO TERMINAL NUMBERS ON EDGE CONNECTOR TO BE USED; LETTERS DITTO.

CODE	A	B	C	D	E	F	G	H
MODEL	2585A	2585AML	2585AX	2585AXU	2590A	2592A	2592AX	2592ASX

Figure 25A. Audio Amplifier Schematic Wiring Diagram  
(Models 2585A, 2585AML, 2585AX and 2590A)



CODE	A	B	C	D	E	F	G	H
MODEL	2585A	2585AML	2585AX	2585AXU	2590A	2592A	2592AX	2592ASX

Figure 25B. Audio Amplifier Pictorial Diagram  
(Models 2585A, 2585AML, 2585AX and 2590A)



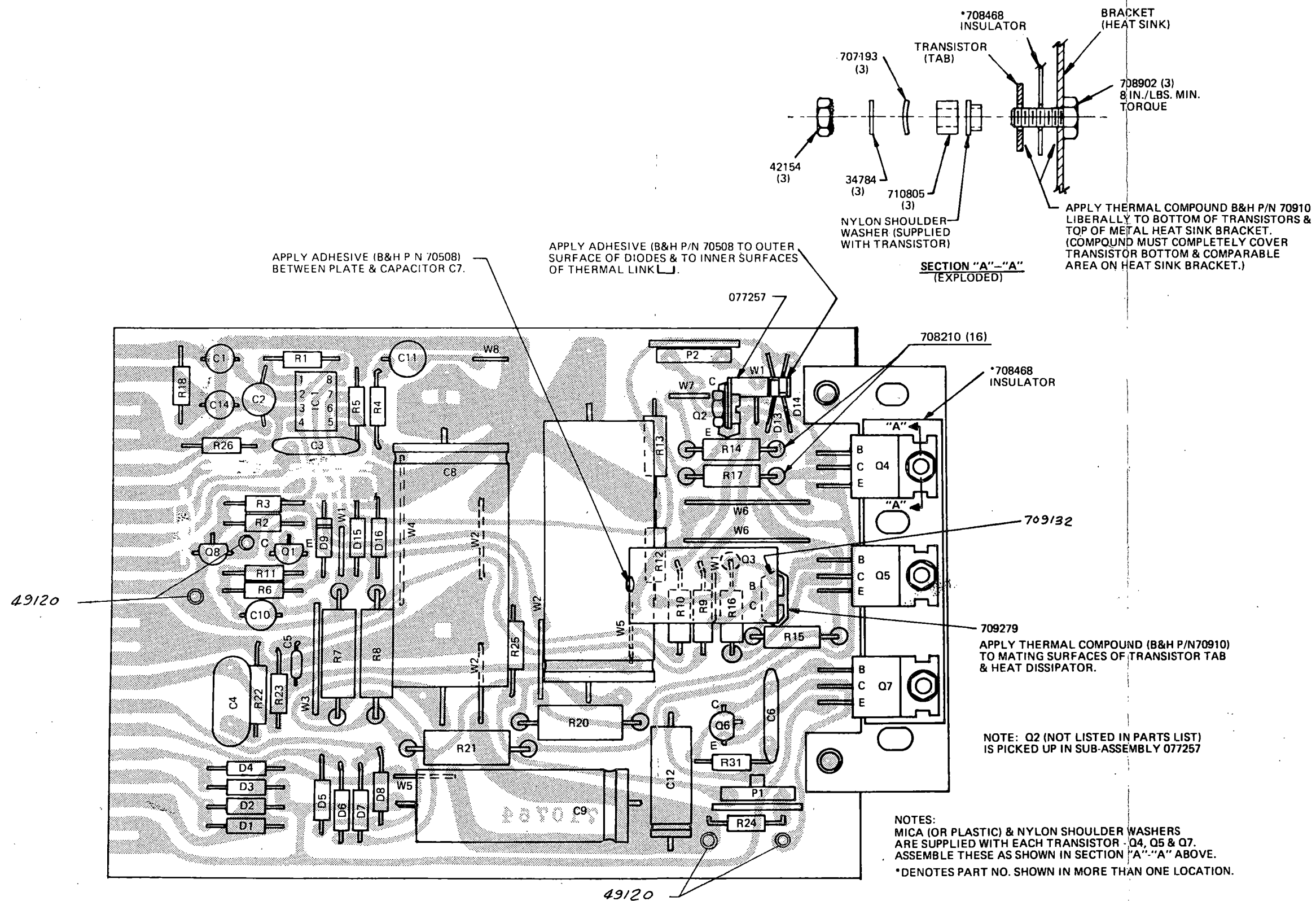
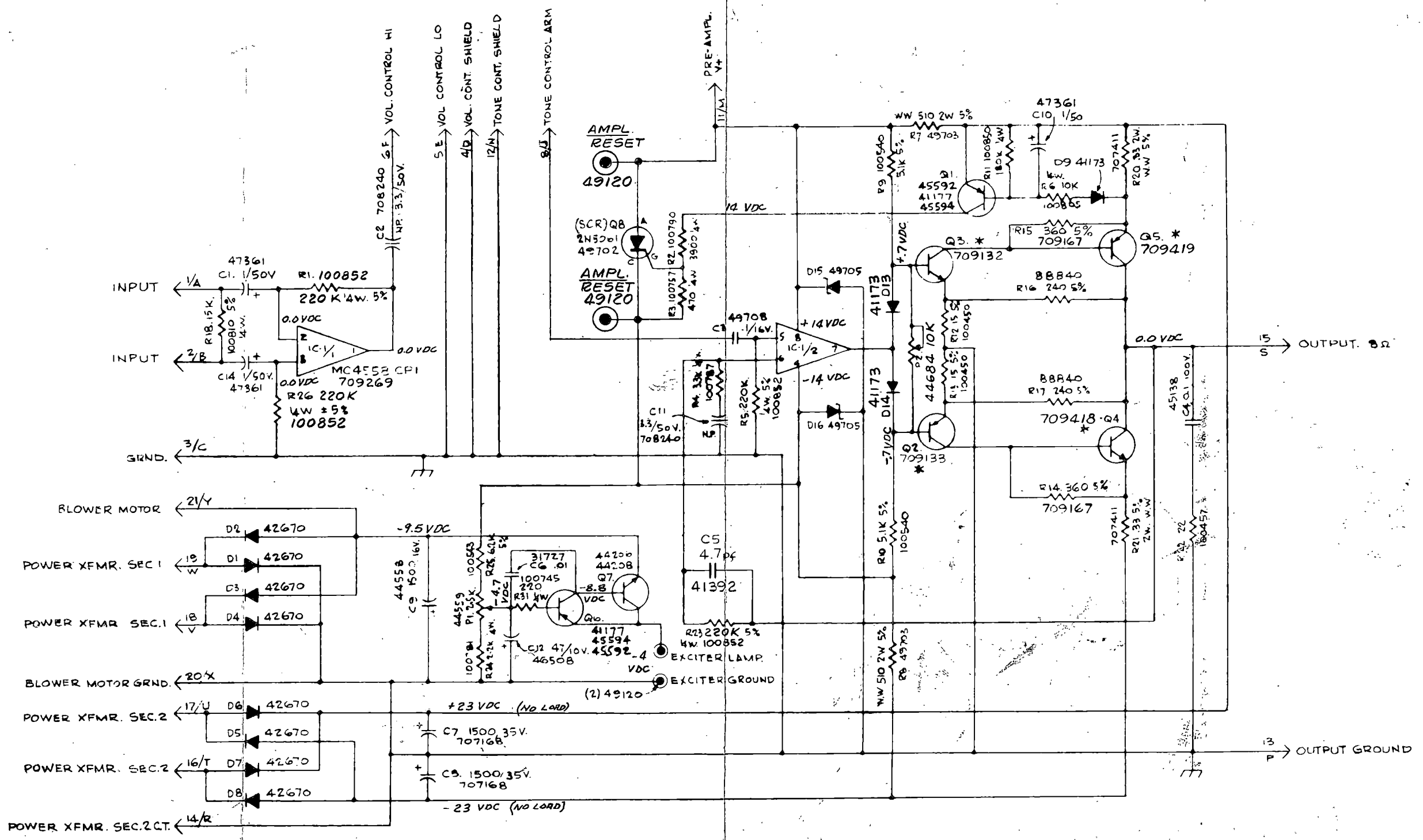


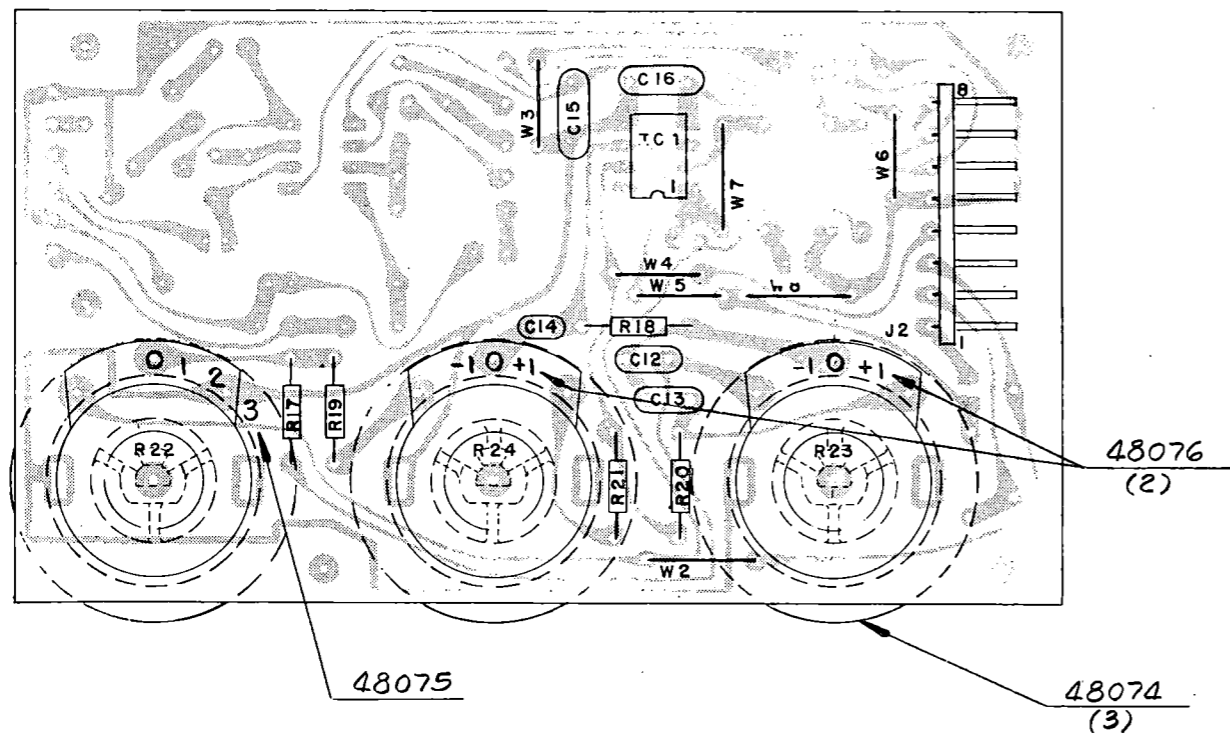
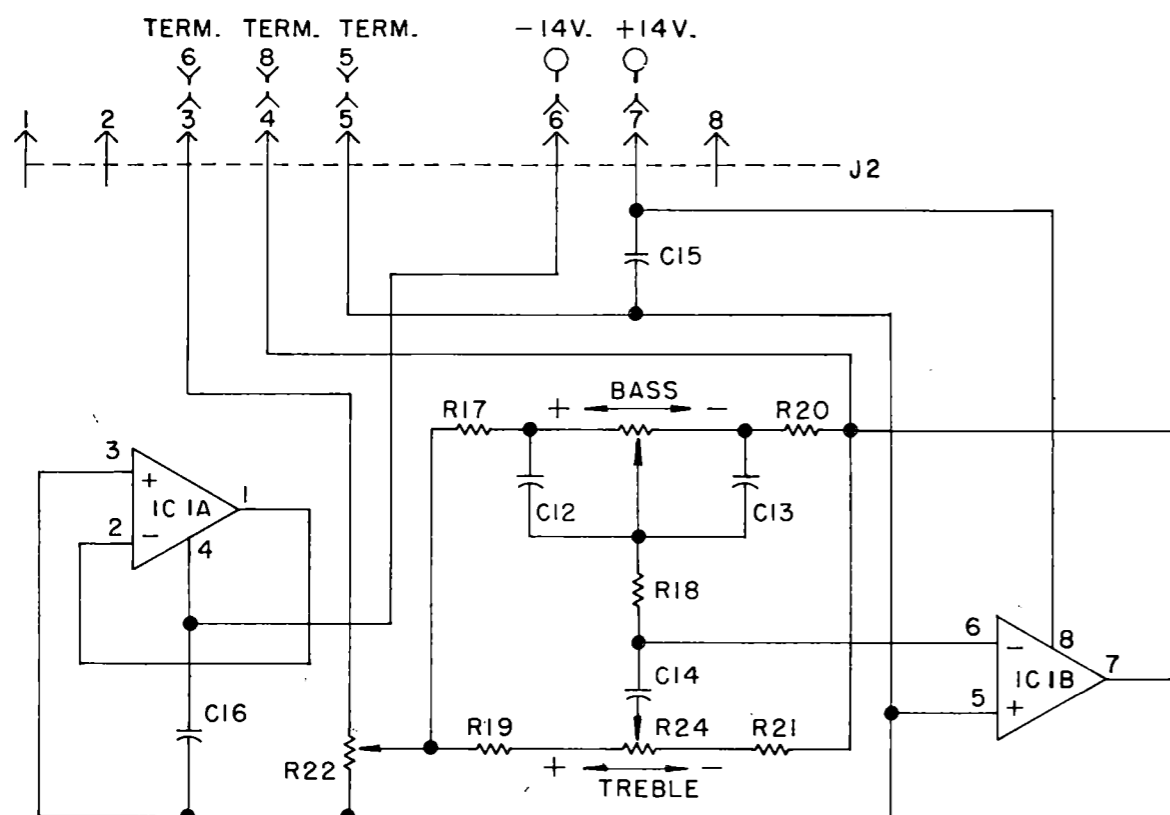
Figure 26B. Audio Amplifier Pictorial Diagram  
(Models 2585AXU, 2592A and 2592AX)



\* - TRANSISTOR NOTE.  
 Q2 & Q3 ARE COMPLEMENTARY PAIRED - AS ARE Q4 & Q5.  
 ALTERNATE PAIRS TO Q4 & Q5 ARE:  
 709275 & 709276.

NOTES:  
 ALL RESISTORS 1/2 WATT CARBON FILM ±10% UNLESS OTHERWISE INDICATED  
 ALL CAPACITANCES IN MICROFARADS UNLESS OTHERWISE INDICATED  
 NUMBERS AT CONNECTOR ENDS CORRESPOND TO TERMINAL NUMBERS  
 ON EDGE CONNECTOR TO BE USED; LETTERS DITTO.

Figure 26A. Audio Amplifier Schematic Wiring Diagram  
 (Models 2585AXU, 2592A and 2592AX)



DESCRIPTION	PART NO.	VALUE	QTY.
CAPACITOR			
C12, C13	671305	.022 mFd	2
C14	671304	.0015 mFd	1
C15, C16	671189	.1 mFd	2
CONTROL BOARD			
	710621		1
DUAL OPERATION AMP			
IC 1	49700	MOTOROLA MC1458CPI	1
JUMPER WIRE			
W2, W7, W8	45108	#20 GA. .500 LG.	3
W3, W4, W5, W6,	709183	#20 GA. .400 LG.	4
POTENTIOMETER			
R 22	710622	5K CGW AUDIO TAPER	1
R 23	710623	100 K LINEAR TAPER	1
R 24	710624	500 K LINEAR TAPER	1
POST HEADER			
J 2	710264	8 PIN RT. ANGLE	1
RESISTOR			
R17, R18, R19	100810	15 K 1/4 W	5
R 20, R 21			
KNOB	48074		3
VOLUME LABEL			
	48075		1
TONE LABEL			
	48076		2

CODE	A	B	C	D	E	F	G	H
MODEL	2585A	2585AML	2585AX	2585AXU	2590A	2592A	2592AX	2592ASX

Figure 27. Pictorial and Schematic Diagrams for  
Volume Tone Control Assembly (Models 2595AXU,  
2592A, 2592AX and 2592ASX)

NUMERICAL INDEX OF PARTS

PART NO.	FIG. AND INDEX NO.	PART NO.	FIG. AND INDEX NO.	PART NO.	FIG. AND INDEX NO.	PART NO.	FIG. AND INDEX NO.
09702	16-21A	014579	6-23	078120	12-29	19010	3-5B
09709	17-24	014611	12-30	078123	4-8	19037	9A-6,
09710	17-13	014947	5-2	078128	8-6		9A-10A,
09711	17-15	015569	13-23	078129	13-7A		9C-6
09712	16-24	015919	5-14	078130	13-7	19327	9A-1
09728	17-23	015921	4-23	078132	14-16C	20808	13-1, 14-6,
09789	15A-28	015924	15A-21	078133	14-16		15B-21,
09807	3-2	016394	5-16	078134	3-5		16-30
09826	13-24	016434	4-20	078136	3-5	21238	15B-3,
09828	13-17	016522	9A-11	078137	3-4		15B-6
09832	13-15H	016534	2-9	078138	3-5	21736	8-14, 17-16
09834	13-15C	016546	12-6	078139	3-5	24047	12-3
09835	13-15D	016579	9A-10	078140	3-4	24852	16-37
09838	13-15J	016580	9A-5	078145	8-10	25368	3-5C
09870	17-7	016581	4-8	078146	2-1	30149	13-3
09885	17-7K	016584	4-35	078147	17-29	30162	17-5
09886	17-7G	016590	7-9	078148	15A-11	30163	13-15A
011212	15A-40	016608	4-21	078149	15A-11D	30164	15A-1,
011214	15A-42	016613	7-12	078150	16-4		15B-1D,
011218	15A-36	016615	9B-12	078153	2-4		15B-19
011219	15B-22	016625	9A-10	078174	10-	30211	5-6
011221	15A-23	016626	4-8	078199	17-29	30801	16-27
011233	15A-31	016651	3-9	078230	16-4	30803	17-7H
011235	16-17	016684	2-1	078231	10-4	30804	13-15E,
011236	16-21	016807	14-13	078232	10-4 <sup>o</sup>		13-29,
011248	15B-14	016808	14-12	078233	10-		14-5G,
011249	15B-7	016815	10-4	078234	10-		14-5K,
011250	15B-9	016840	14-5	078289	13-31		17-9
011886	16-12	016841	14-5M	078517	4-20	30807	14-9,
012132	18-4	016952	11-4C	078561	7-12		15A-37,
012133	15B-1G	020240	13-11	078565	7-9		16-33
012134	15B-1F	072848	2-4G, 4-10	078566	7-9	30808	3-9A, 7-6,
012666	17-24	077195	7-10	078577	7-10		15B-2
013917	16-23	077453	14-17	078581	16-26	30809	4-4, 4-11,
013922	15A-29	077456	14-19	078585	7-5B		4-16, 5-25,
013935	13-15	077606	2-4C	078586	2-9		8-11, 16-3,
013962	15B-1	077631	4-8, 9C-5	078587	2-9		16-5
014526	5-11C	077632	4-23	078589	4-5	30810	4-9, 8-4
014527	5-11	077653	7-9	078594	4-5	30811	7-7
014529	5-24D	077920	8-3	1953	5-21	30815	4-7, 9C-1,
014530	5-24	077921	16-36	8179	8-2		9C-4
014532	13-21	077959	4-29	10417	19-6	30816	2-9A, 7-13
014538	4-14	077961	4-29	17639	15A-22,	30817	4-6, 9C-2,
014539	6-11	078106	5-27, 11-		15A-30,		16-22
014547	6-16	078107	5-28, 12-		17-7B	30822	4-18, 4-26
014573	4-3	078108	5-29	17676	13-25,	30875	Deleted
014576	14-5N	078119	11-19		15A-12	30879	11-1, 12-1

NUMERICAL INDEX OF PARTS

PART NO.	FIG. AND INDEX NO.	PART NO.	FIG. AND INDEX NO.	PART NO.	FIG. AND INDEX NO.	PART NO.	FIG. AND INDEX NO.
31001	16-20	31398	16-34	34859	9B-9	36668	13-20, 16-19
31003	16-17B	31399	17-7D	34861	5-3	36763	4-30, 6-1,
31005	16-7	31400	17-18	34878	14-26,		6-5, 15A-41,
31006	17-28B	31403	17-7C		15A-44,		17-11
31007	17-12	31405	17-7A		15B-10	36764	11-6, 12-11,
31009	17-8	31407	16-4C	34879	14-26		12-24, 14-34
31011	16-17A	31413	15A-17	34884	13-8	36765	11-6A, 13-19
31015	14-14	31451	15A-34	34889	8-1	36769	3-1, 11-4A,
31017	11-10, 14-18,	31456	17-7E	34892	13-9		17-24A
	14-21	31474	15B-7B	34897	14-5E	36770	16-1
31019	14-3	31489	4-34	35164	19-13	36771	14-11
31020	14-4,	31491	5-35	35814	14-27	36801	15B-5
	15B-13,	31551	14-16A,	35819	14-5F	36999	14-28
	17-2		15A-15,	35820	15A-35	37293	18-6
31029	5-5, 17-17,		15A-20,	35822	15A-16	37296	18-3
	17-26		15A-39,	35823	13-4	37302	15B-1E
31031	17-25		15B-11	35830	14-30	37303	15B-1B
31035	17-14	31555	15A-32,	35834	15A-18	37304	15B-1C
31036	17-7F		15B-7A	35838	15A-14	39092	5-7
31037	16-8	31557	16-16	35840	15B-20	39256	9B-4A
31038	11-5, 12-15,	31561	8-3A, 19-22	35846	15A-24	39350	9B-4
	14-36	31585	8-5	35850	15A-19	39789	13-15G
31039	8-17	31592	5-34	35874	15A-13	41307	16-18
31042	14-24	31630	13-14	35910	14-20	41308	16-9
31048	17-3	31636	13-18	36013	16-14	41309	16-9
31049	14-31,	31638	13-16	36014	16-15	41318	17-7J
	15B-15	31659	13-15F	36015	16-13	41320	13-31B
31061	16-24A	31669	13-22	36018	15A-26	41321	13-31A
31078	17-28A	31671	13-13	36027	15B-7C	41323	4-27A
31092	14-5B	31673	13-12	36028	15B-7F	41330	15A-11C
31093	14-5L	31674	13-15B	36038	12-4	41331	12-31
31095	14-5H	31675	13-30	36039	17-28C	41342	15B-18
31135	18-7	31928	14-15	36042	17-27	41377	16-35
31143	16-4A	31957	14-1, 14-2	36044	15B-4	43878	3-5D
31145	17-19	31976	17-4	36047	15B-7E	44173	10-4A
31147	17-21	31977	15B-12, 17-6	36048	16-25	44205	17-17, 17-26
31148	17-22	31978	18-1, 18-8	36064	18-2	44223	3-8
31149	17-20	32456	13-7B	36065	17-28C	44224	14-25
31236	11-18, 12-23	33285	4-33	36075	18-9	44261	16-2
31239	11-16, 12-20	33347	15A-27,	36081	14-29	44294	6-22
31241	11-14, 12-19		15B-8	36082	15A-2	44296	9B-8
31243	5-36, 9B-6,	33385	11-13, 12-18	36083	5-20, 5-24A	44297	8-21
	11-15, 13-2A	33837	13-26	36094	13-6	44298	3-5E
31245	6-20, 11-12,	34101	12-13, 12-21	36099	15B-7D	44312	5-12, 5-19
	12-17	34787	13-5	36533	4-31, 6-2,	44313	5-26
31247	11-3, 12-5	34797	16-10		6-6	44317	5-13
31396	16-31	34822	8-15	36662	16-6	44321	14-32

## NUMERICAL INDEX OF PARTS

PART NO.	FIG. AND INDEX NO.	PART NO.	FIG. AND INDEX NO.	PART NO.	FIG. AND INDEX NO.	PART NO.	FIG. AND INDEX NO.
44325	16-36B	44533	8-18	48190	2-7	707081	10-2
44327	16-34	44535	14-37	48191	1-10	707110	5-18
44328	4-35B	44536	4-3A	48432	18-5	707112	5-17
44332	9A-10C, 9B-10	44537	5-23	48493	10-3, 10-7	707136	12-16
44333	9A-10D, 9B-11	44586	4-2	48938	15A-6	707162	14-10
44335	4-5C	44587	3-5F	48939	15A-4	707183	2-9F
44348	8-22	45083	2-1B, 19-2	49275	2-6	707211	16-21B
44356	4-27	45102	3-4A, 19-10	49283	2-1C	707231	1-3
44359	15A-9	45575	4-32	49284	19-4	707257	4-28
44367	12-25	45577	11-7	49532	12-28	707281	4-22
44370	5-4, 5-11B	45578	11-7A	49637	2-5, 3-3	707413	19-16
44371	5-9	45579	11-8	49638	2-3, 2-8, 3-7	707414	19-8
44372	5-22	45580	12-9	49932	13-10	707415	19-15
44373	5-24C	45581	5-8, 5-32	49979	15A-10	707416	19-20
44376	4-17	45598	9A-2	49980	15A-38	707443	10-1
44377	4-12	45675	9A-2	80408	4-13, 4-24	707446	10-6
44378	14-7	45676	9A-7	83663	15A-33	707449	2-9A
44381	14-35	45683	12-14	88672	4-3B	707470	9A-4, 9B-3
44388	14-16D	45684	12-10	97509	15A-3	707745	9A-9, 9B-7
44395	6-7	45685	12-12	99828	15B-1A	707746	9A-8
44407	11-17	45687	14-5D	117172	4-1	707751	2-1D, 19-3
44412	12-22	45688	14-5A	204129	16-4D	707770	19-18
44420	13-27	46464	16-11	303541	15A-25	708237	7-3
44424	6-10	46484	9A-7, 9A-10B	305792	9C-10	708457	4-22
44427	6-12	47137	5-10	308638	4-1	708629	1-10
44429	6-13	47203	2-9D	308650	19-7	708640	14-14A
44430	6-17	47408	6-24	308858	15A-7, 15A-11A	708994	3-4B
44433	4-25	47974	7-8	408610	4-36	709040	6-9
44439	4-21	48052	2-9B	434198	2-4D	709114	9C-7
44459	4-15	48063	2-9C	436895	19-21	709196	2-1E
44461	1-7	48069	7-5	436949	2-4A	709215	8-8
44462	7-14	48070	8-12	436950	2-4B, 2-4E	709218	3-4C, 3-5A
44467	4-5A	48071	8-13	440662	19-14	709417	9A-12
44483	Deleted	48072	8-19	600736	4-5B	709524	4-25
44486	5-24B	48073	8-16	600987	13-7C	709659	4-19
44490	1-7	48074	7-12A	601190	9B-1, 9B-5	709679	6-25
44492	9A-13	48075	7-12B	602389	13-31C	709737	2-4F
44507	5-30	48076	7-12C	700103	4-35A	709756	17-1
44511	13-28	48078	7-2	700639	14-16B	709806	11-4B
44512	5-33	48088	7-12D	700672	12-7, 12-27	709827	2-9E
44513	15A-43	48089	7-12F	700710	6-15, 6-19	709847	10-5
44514	6-18	48176	6-3	700735	9A-3	709848	19-9
44516	6-4	48177	16-32	700816	2-1A	709859	16-29
44526	6-21	48186	2-4	707074	10-4B	709860	16-28
44532	7-15	48187	3-4D	707075	3-9B	709872	15A-8
		48188	3-5H			710012	14-17A
						710033	15A-45

## NUMERICAL INDEX OF PARTS

PART NO.	FIG. AND INDEX NO.	PART NO.	FIG. AND INDEX NO.
710096	13-7D	710546	1-3
710203	14-23	710550	1-3
710205	9C-3	710604	1-6
710251	1-10	710607	1-9
710260	9C-9	710622	7-12E
710308	4-2	710623	7-12D
710319	9C-8	710624	7-12G
710396	3-8	710645	1-4
710399	16-4B	710650	19-17
710405	11-2	710651	19-19
710406	12-2	710653	1-12
710424	13-2	710655	1-11, 7-5A
710427	3-5G	710660	4-5D
710436	17-10	710662	4-5D
710442	1-2	710663	4-5D
710443	1-2	710682	19-23
710444	1-2	710714	10-6
710448	19-5	710810	19-12
710449	1-6	710845	3-10
710454	1-8	765340	9B-2
710455	1-6	765449	6-14, 12-8, 14-22
710456	2-2		
710465	3-6	765460	19-1
710467	3-5G	765777	5-1, 5-11A, 5-15, 5-31, 11-9, 12-26
710468	1-9		
710469	14-35A		
710470	14-8	766181	8-7
710471	5-38, 13-6A	766395	7-1, 7-4, 7-11
710472	15A-5		
710473	14-33		
710474	1-5, 14-5J		
710475	1-1		
710476	15B-17		
710479	14-38		
710481	3-5H		
710482	3-4D		
710483	2-4		
710484	2-7		
710488	8-20		
710493	15A-11B		
710495	1-9		
710496	2-4H		
710504	16-34A		
710507	3-9		
710508	6-8		
710540	16-4E		

ADDED PART  
NUMBERS711667 14-7  
Replaces 44378