

35 ELECTRICAL SERVICE UNIT (LESU)

FOR ASR

PARTS

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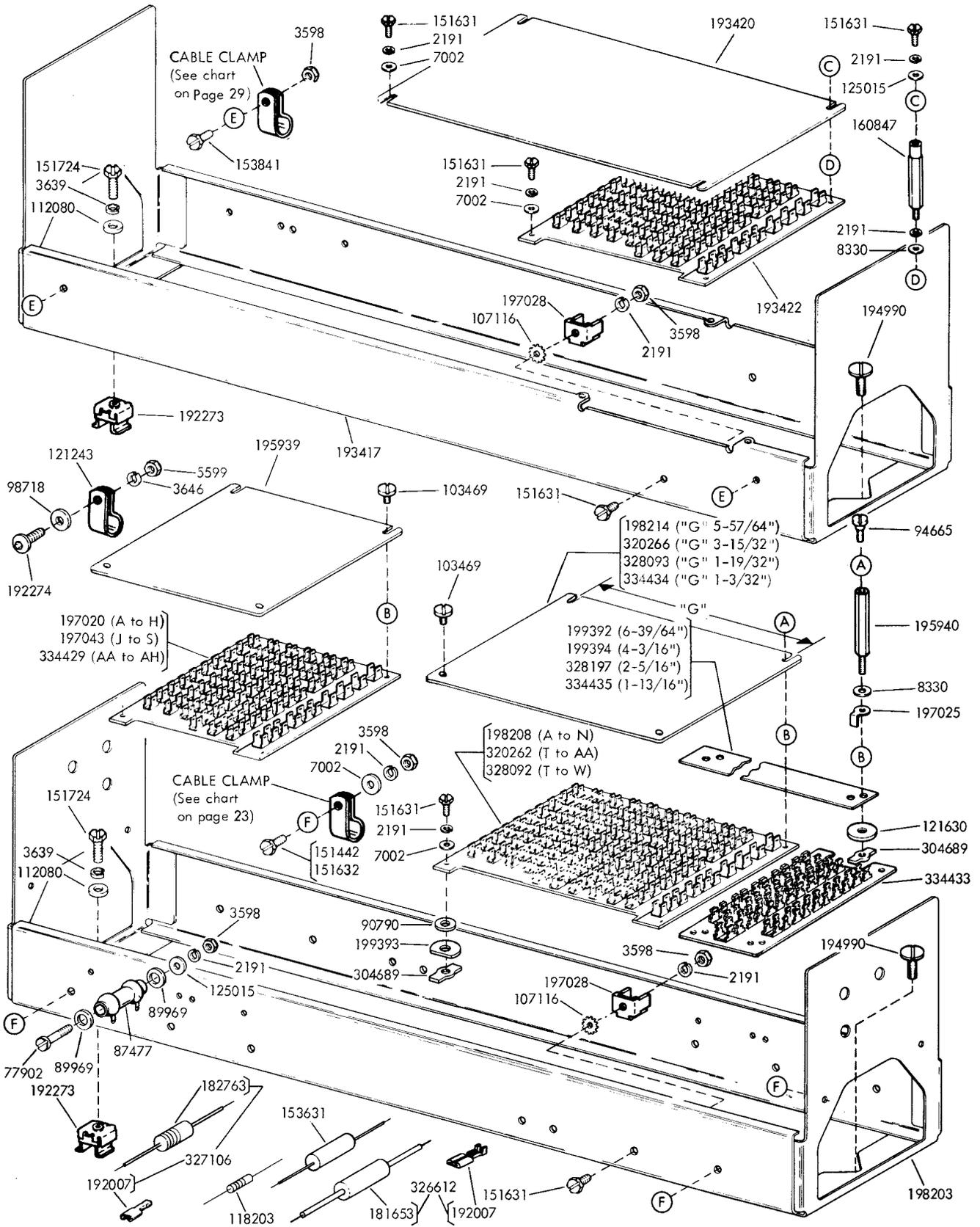


FIGURE 1. CONTAINER AND ASSOCIATED PARTS

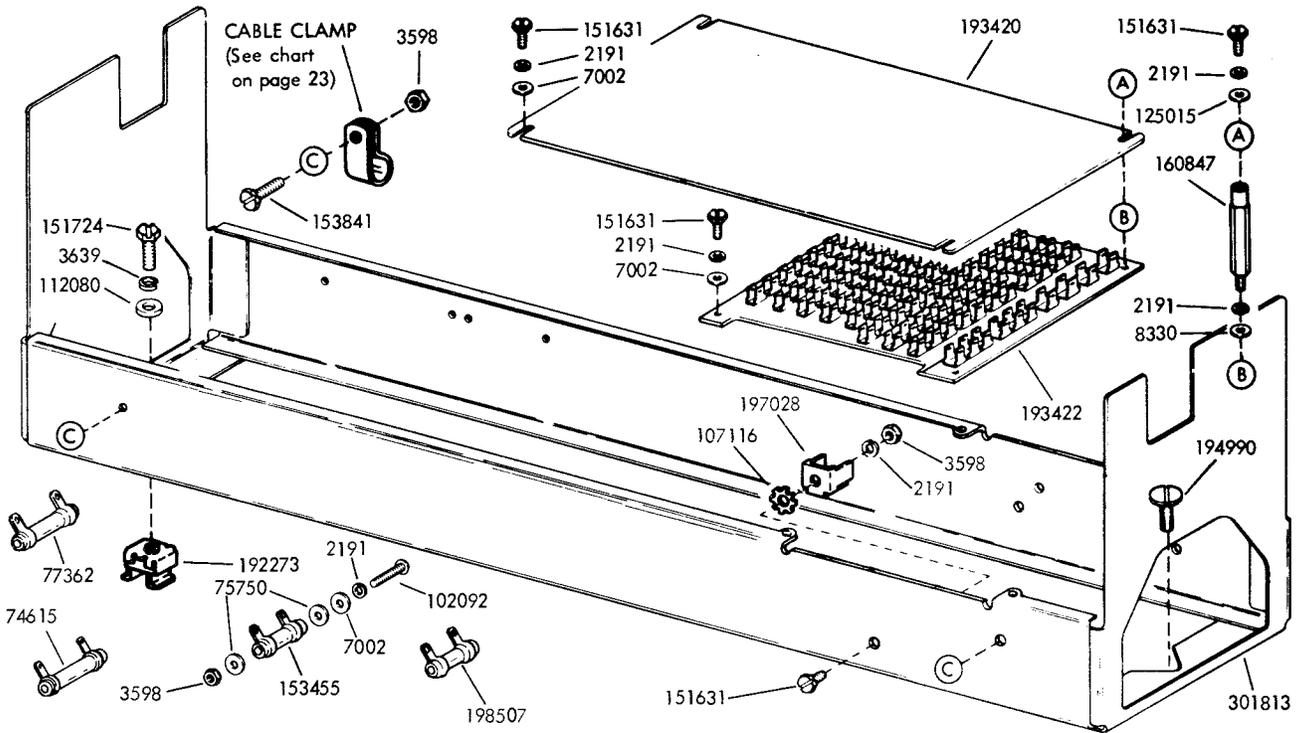


FIGURE 2. CONTAINER AND ASSOCIATED PARTS (Continued)

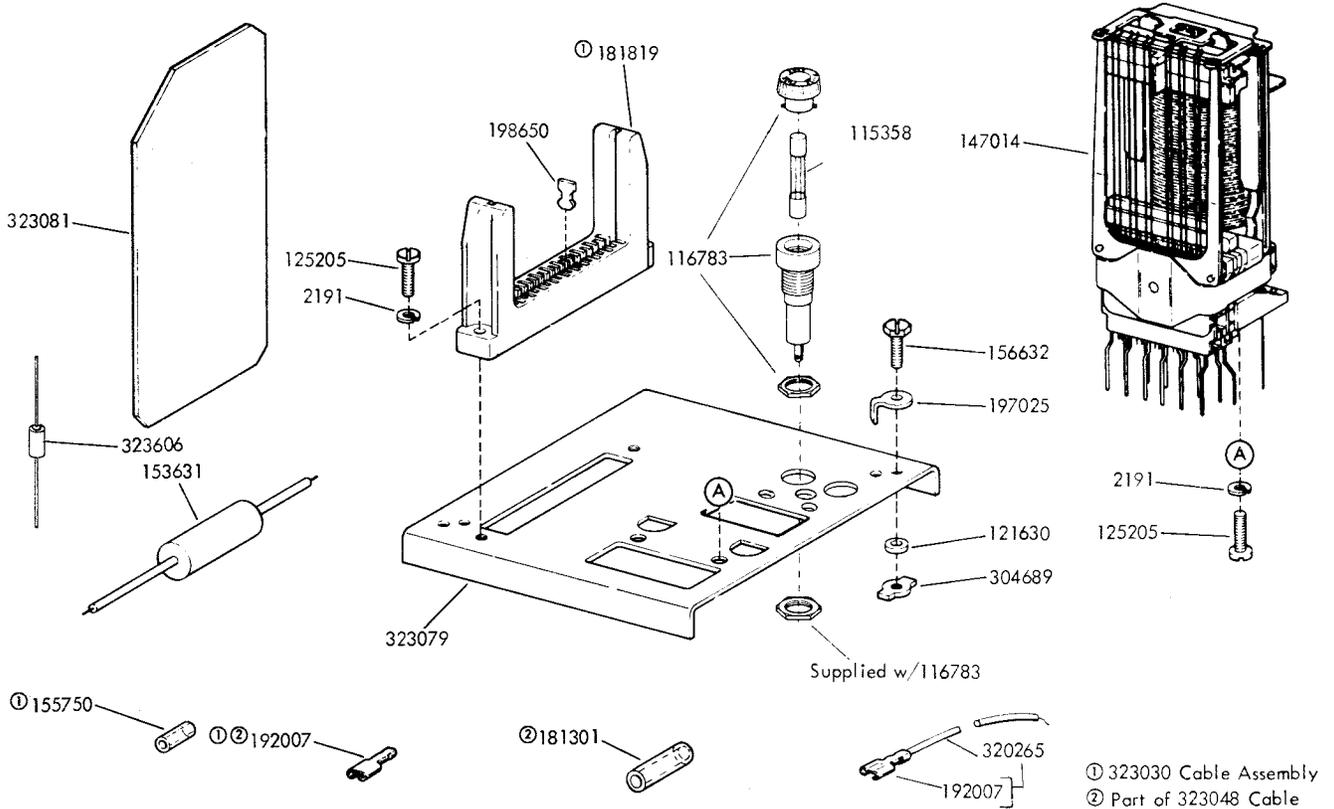


FIGURE 3. 323055 RELAY PLATE ASSEMBLY

① 323030 Cable Assembly
 ② Part of 323048 Cable

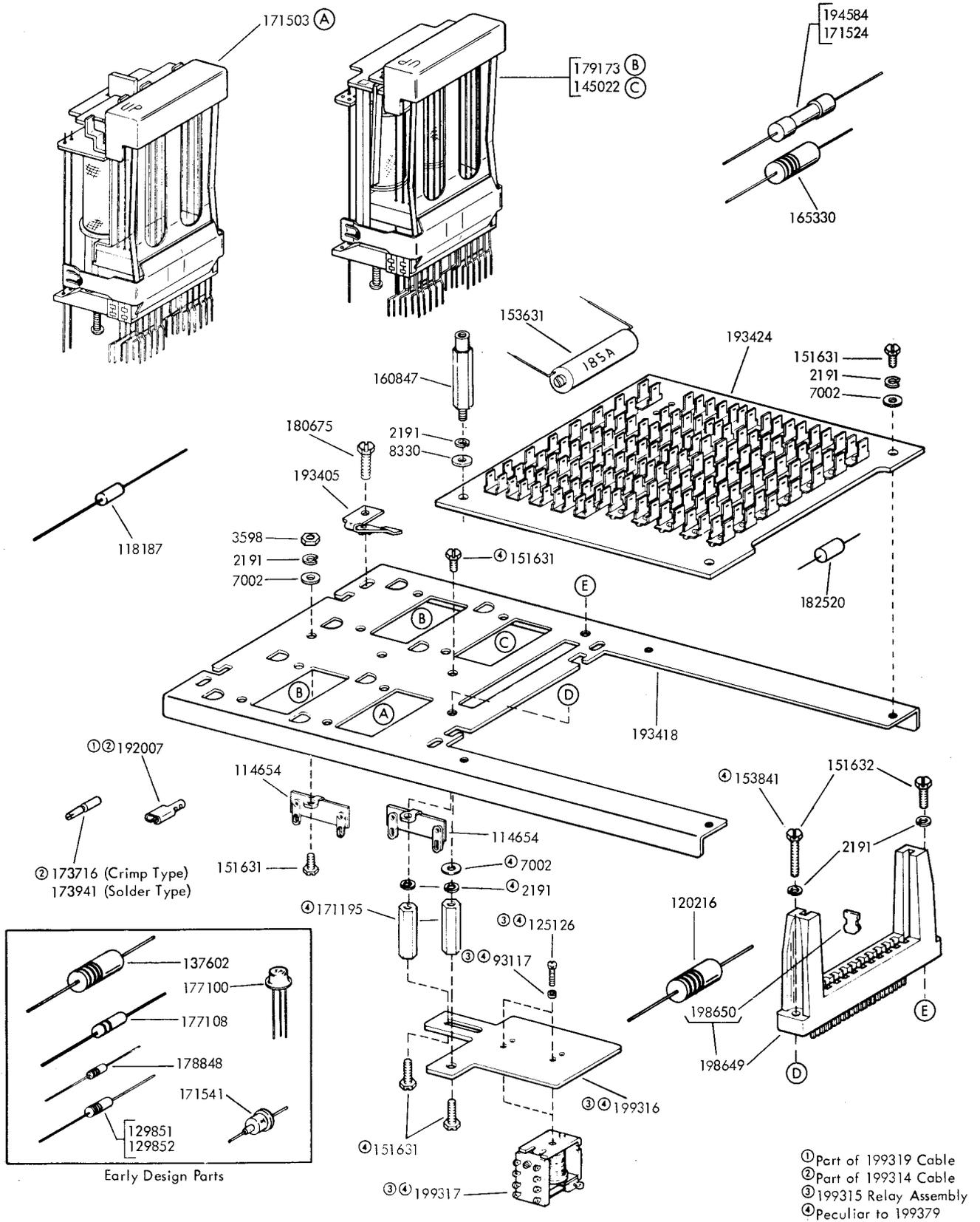
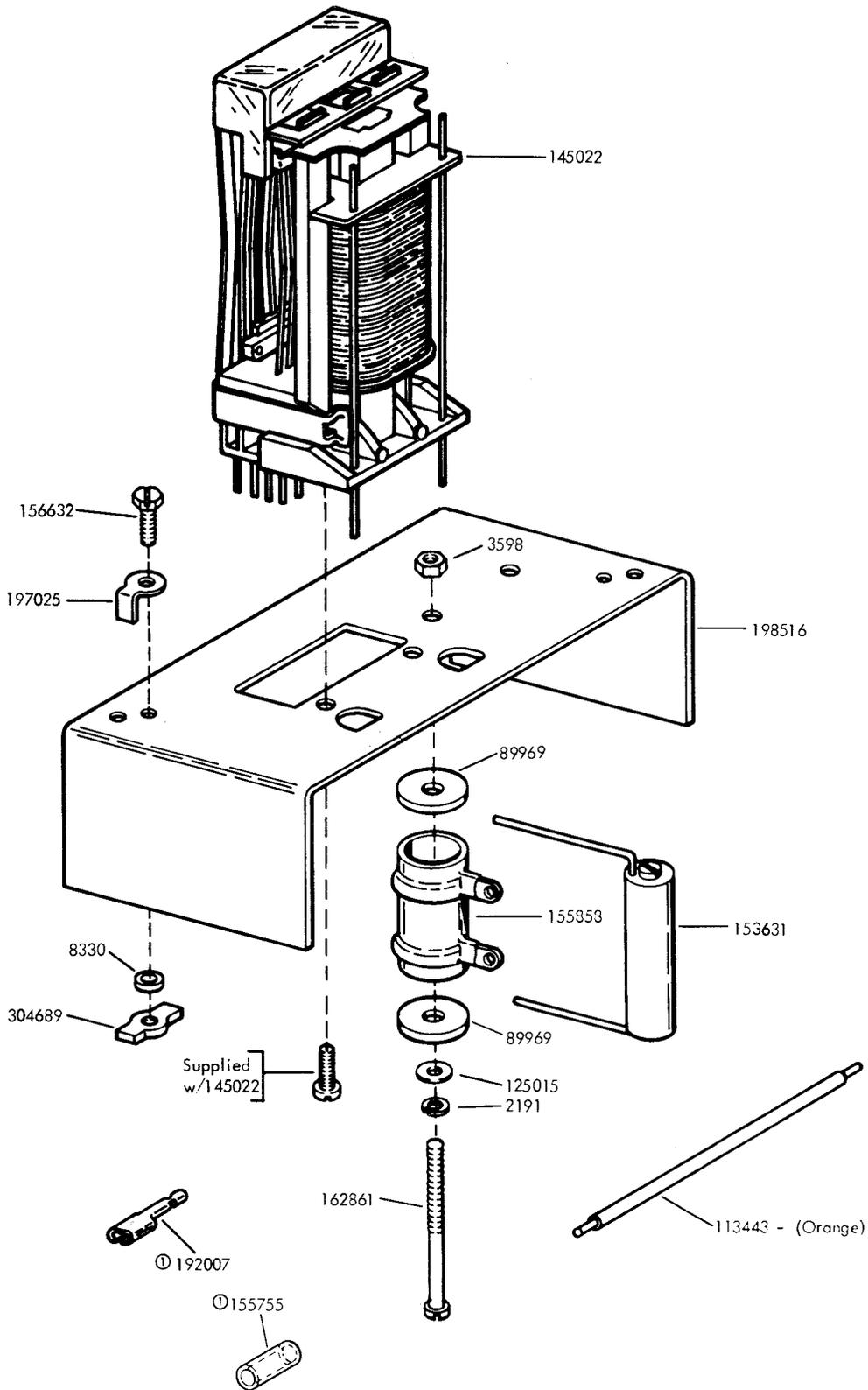


FIGURE 4. 193467 AND 199379 NON-CONTENTION RELAY PLATE ASSEMBLIES



Ⓞ Part of 305441 Cable

FIGURE 5. 305440 NON-CONTENTION RELAY PLATE ASSEMBLY

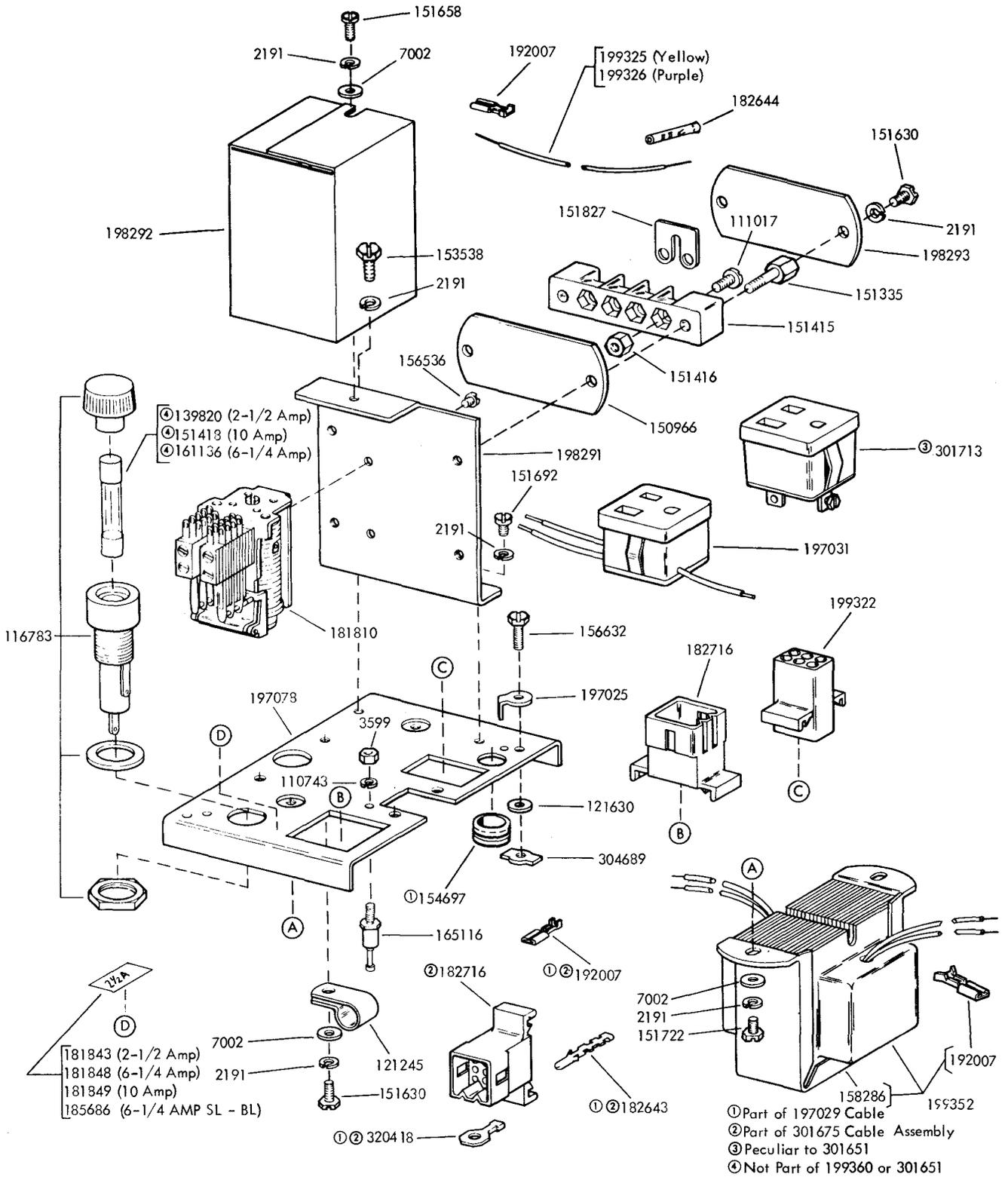


FIGURE 6. 199360 AND 301651 POWER DISTRIBUTION ASSEMBLIES

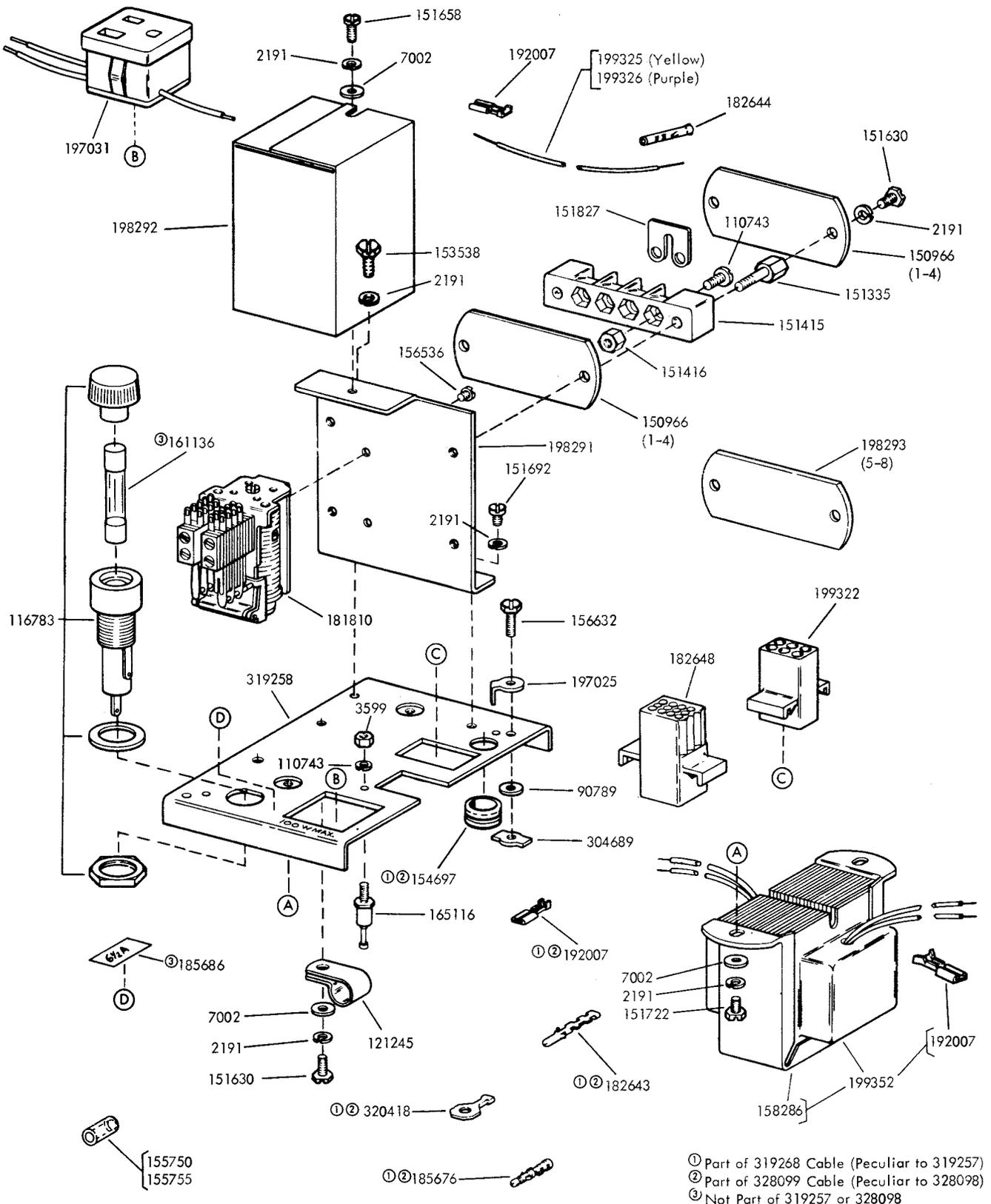


FIGURE 7. 319257 AND 328098 POWER DISTRIBUTION ASSEMBLIES

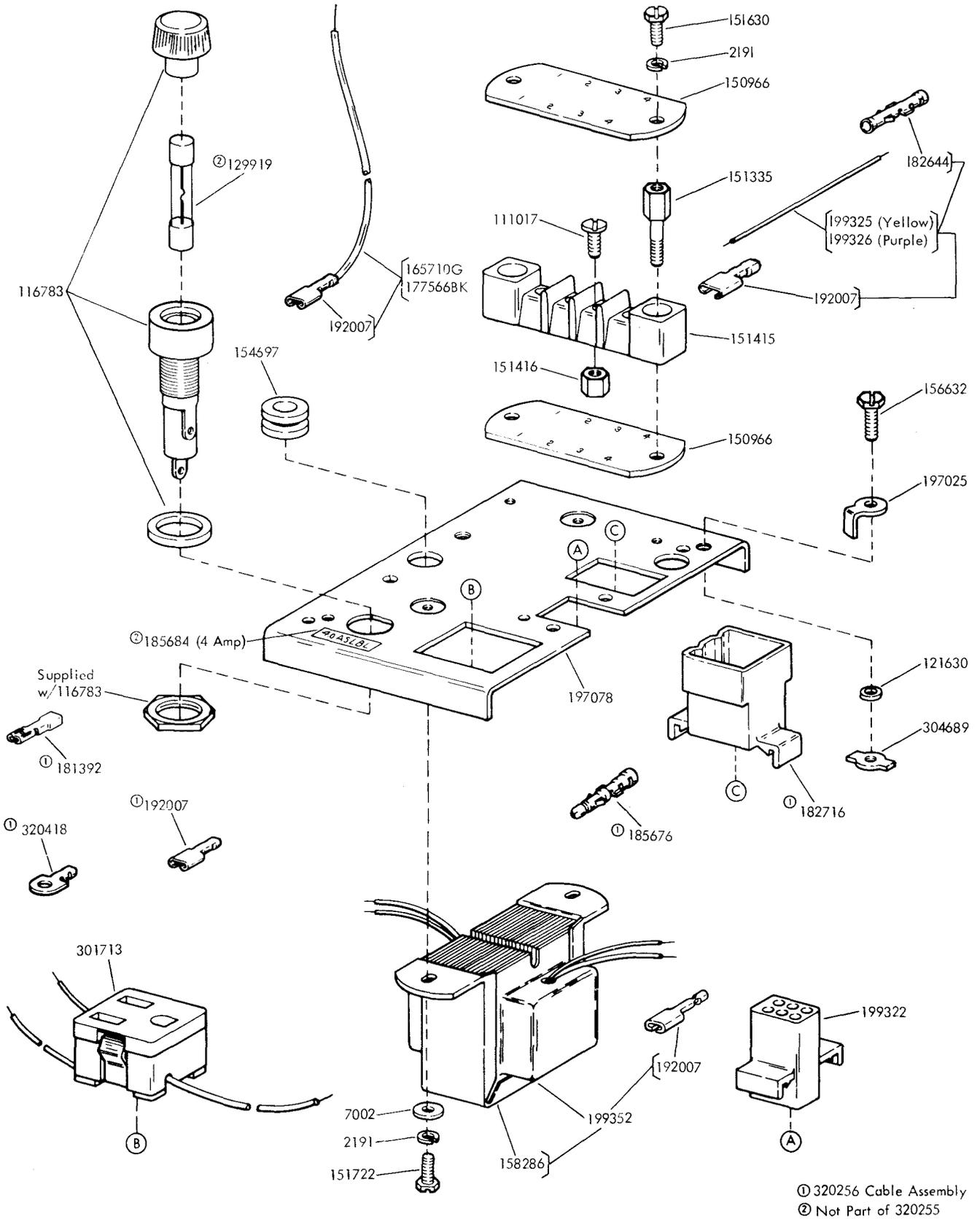


FIGURE 8. 320255 POWER DISTRIBUTION ASSEMBLY

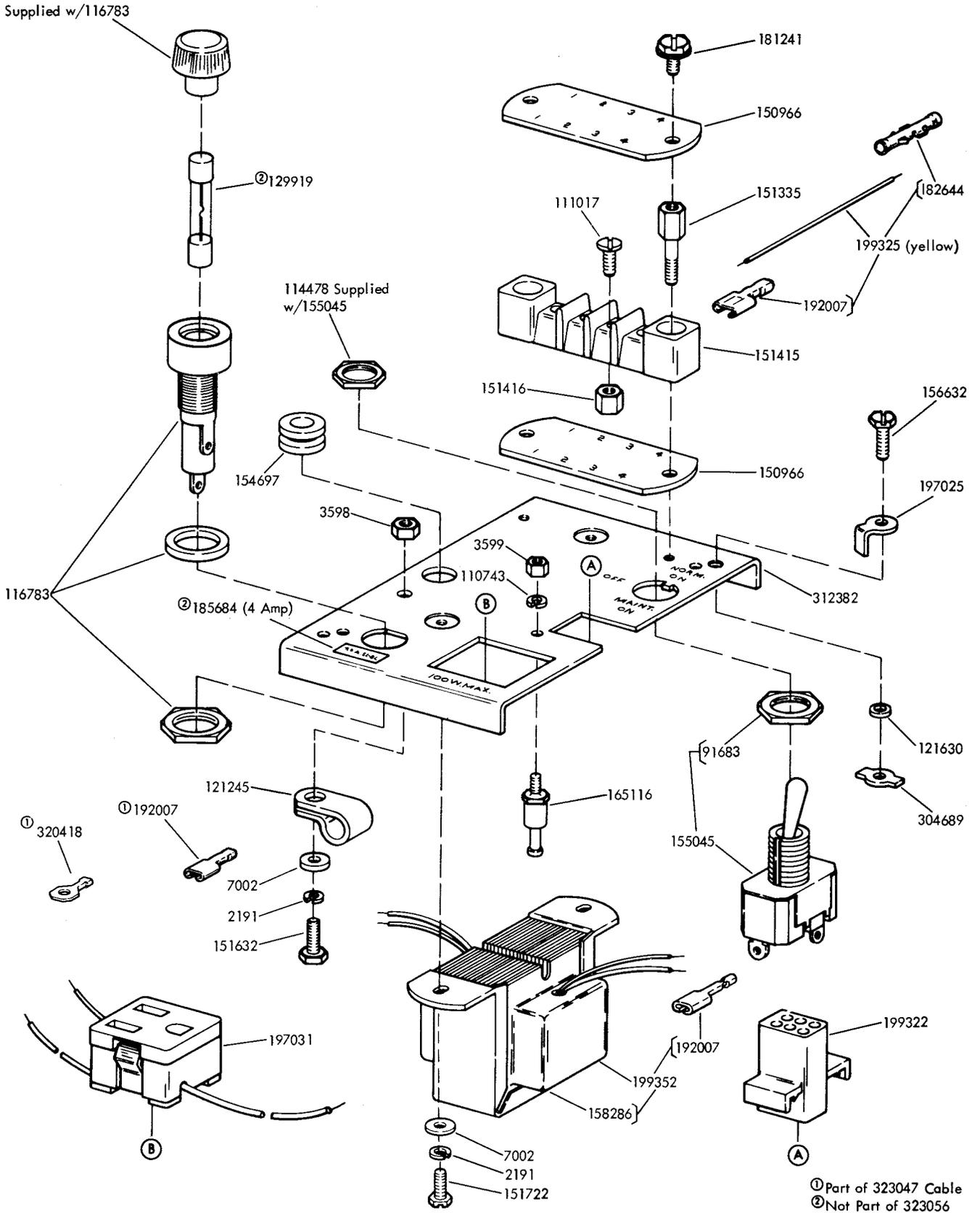


FIGURE 9. 323056 POWER DISTRIBUTION ASSEMBLY

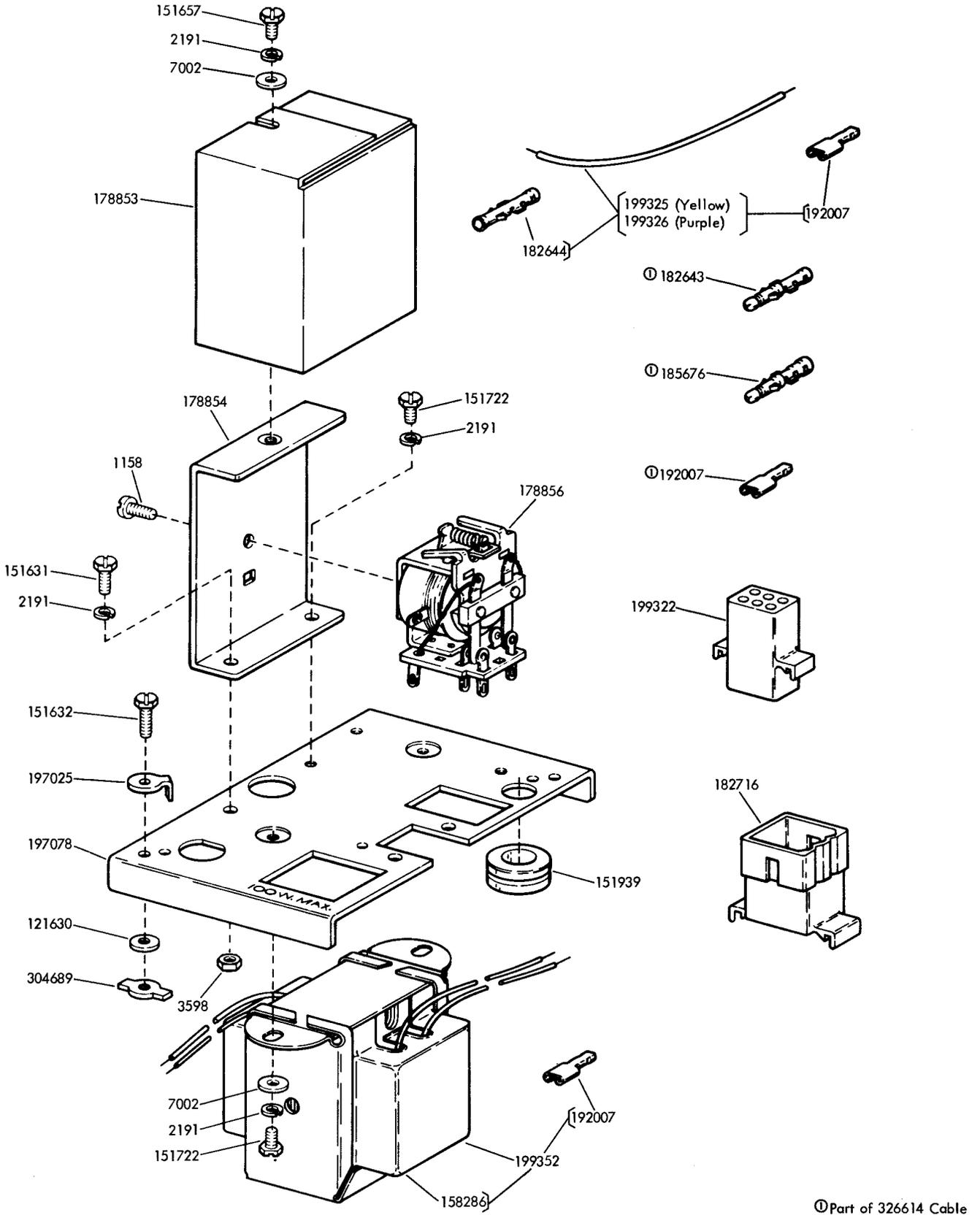


FIGURE 10. 326609 POWER DISTRIBUTION ASSEMBLY

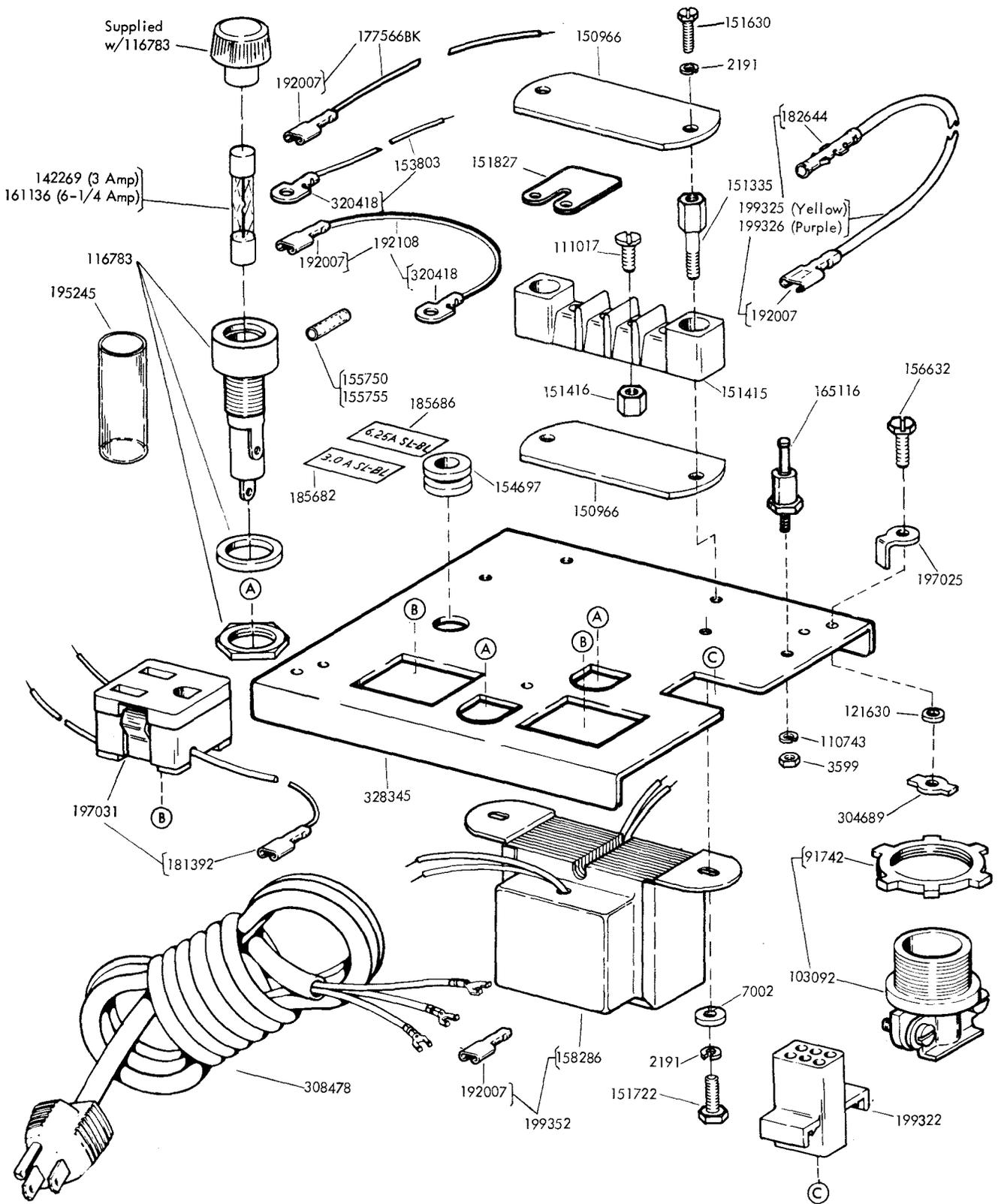


FIGURE 11. 328811 POWER DISTRIBUTION ASSEMBLY

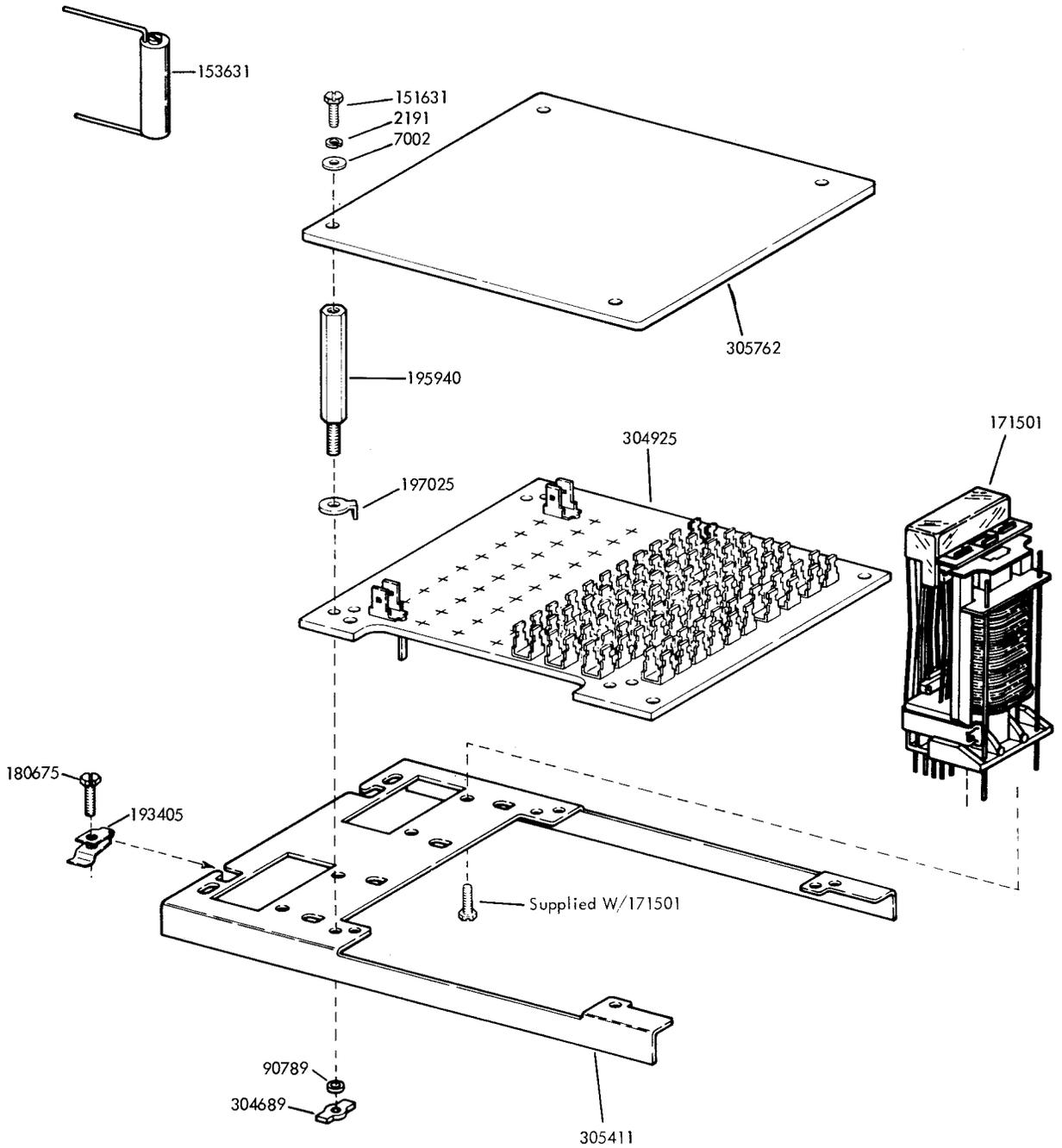


FIGURE 12. 305417 MAIN TERMINAL BOARD ASSEMBLY

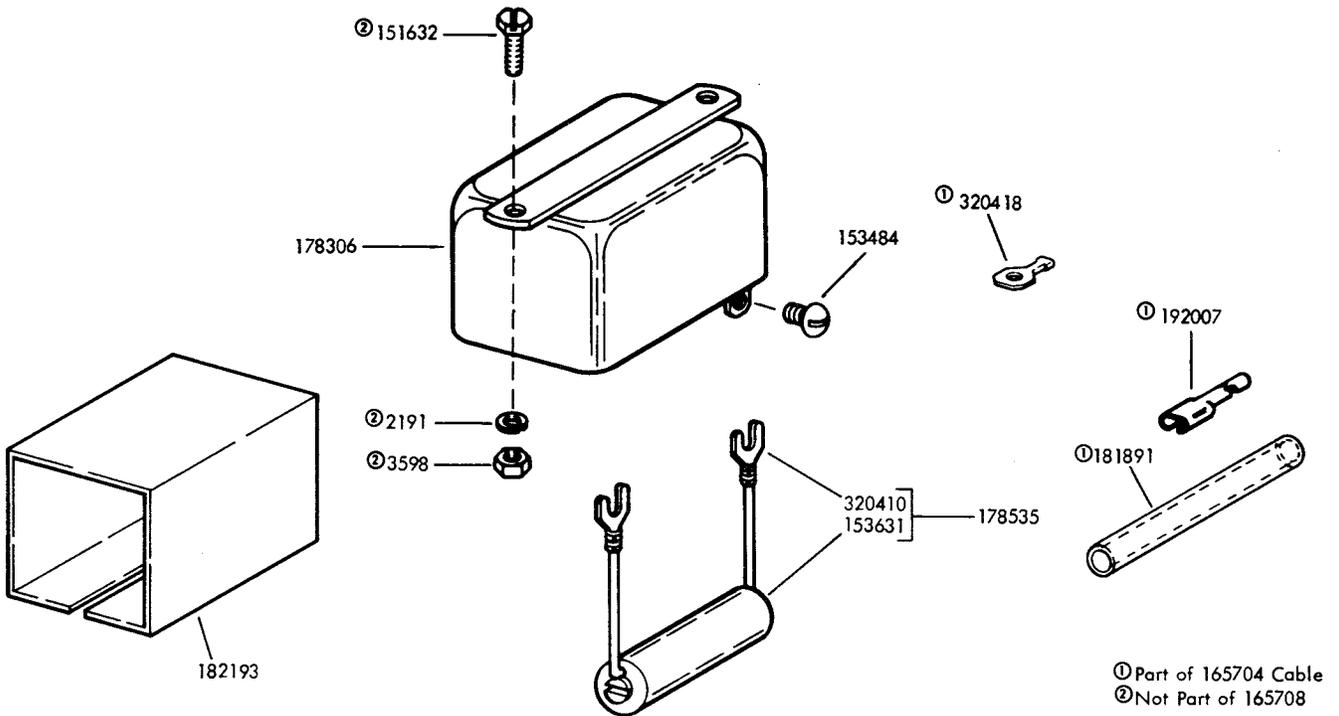


FIGURE 13. 165708 MOTOR CONTROL RELAY ASSEMBLY

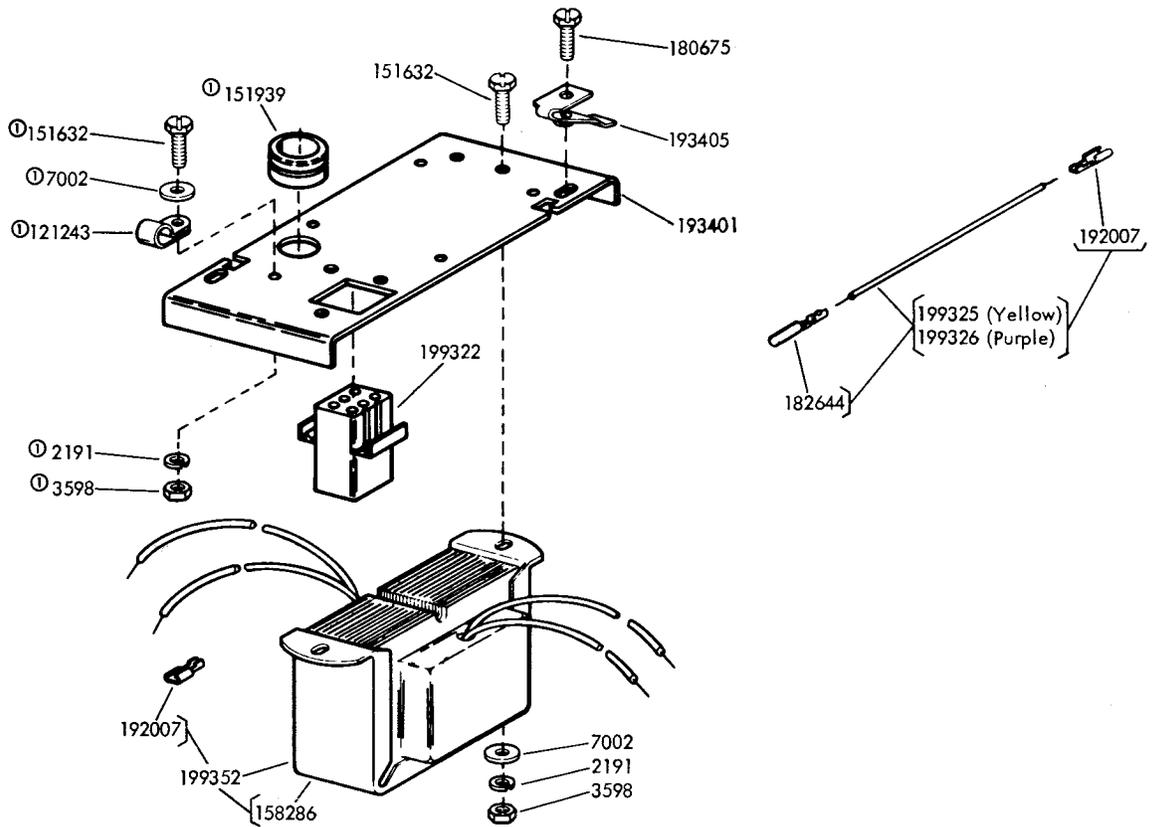


FIGURE 14. 199350 COPYRIGHT TRANSFORMER ASSEMBLY

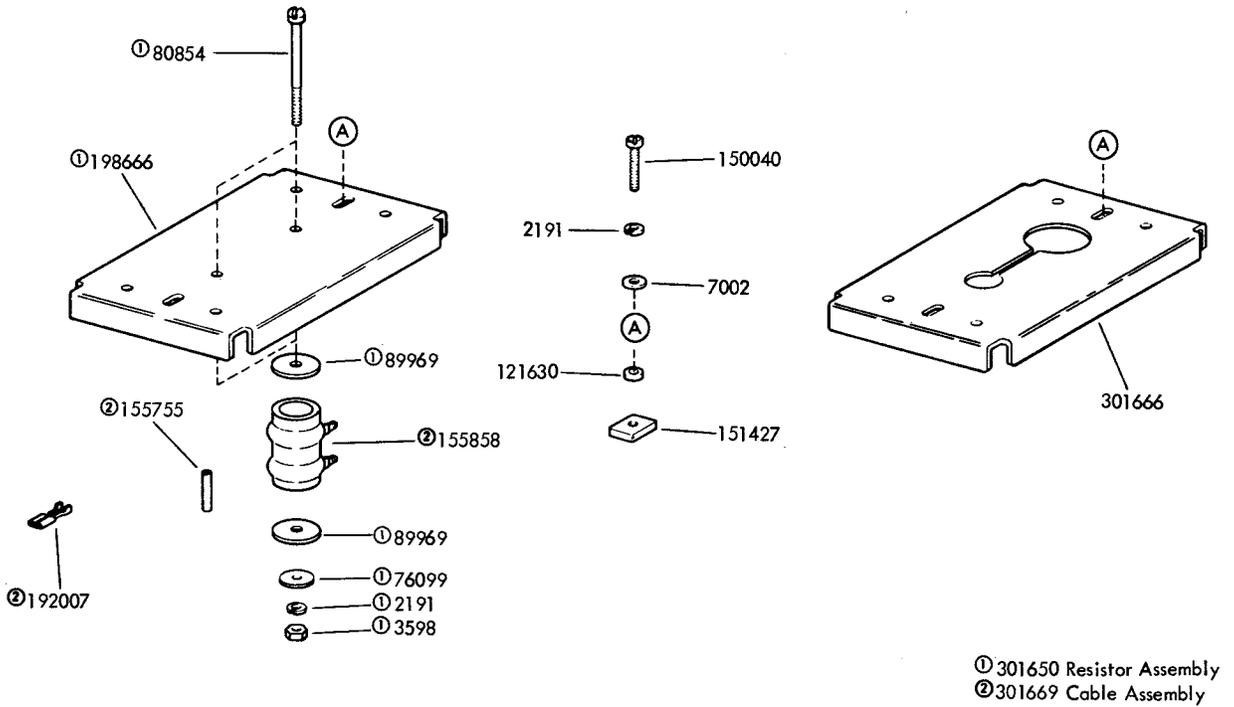


FIGURE 15. MOUNTING PLATES

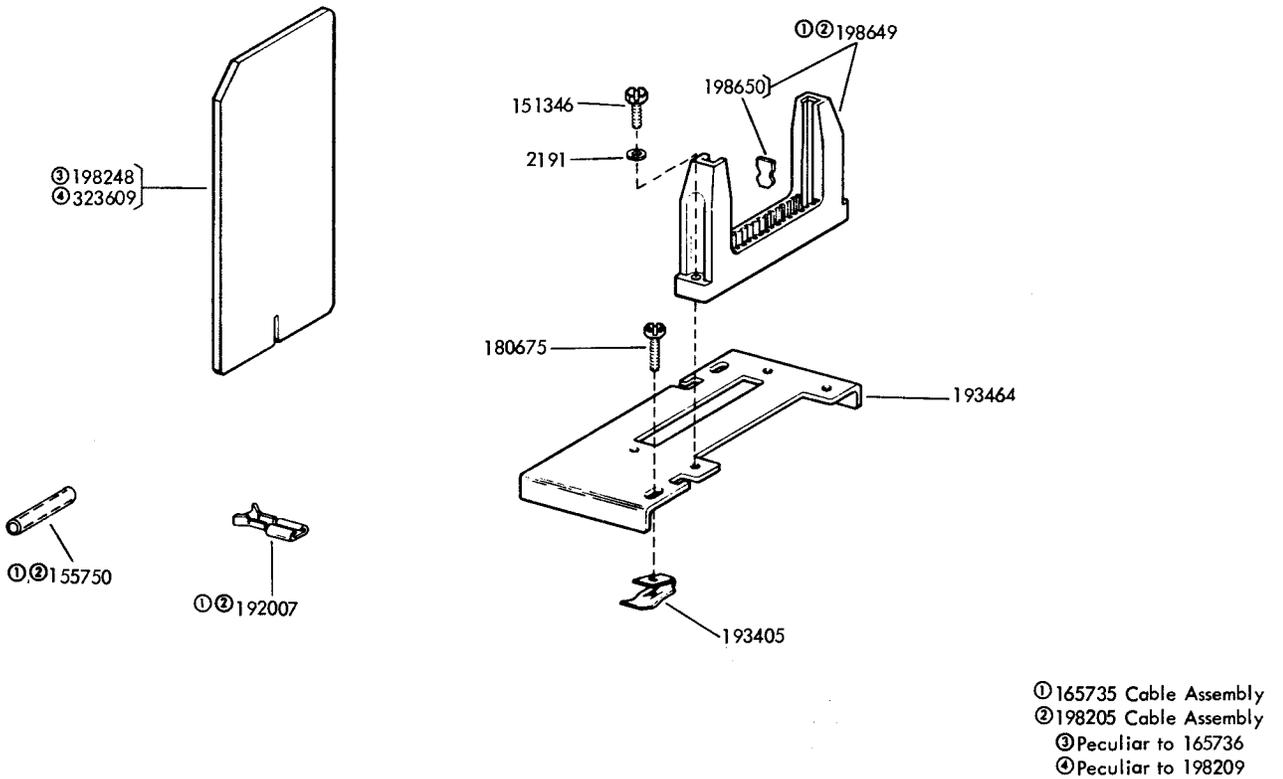
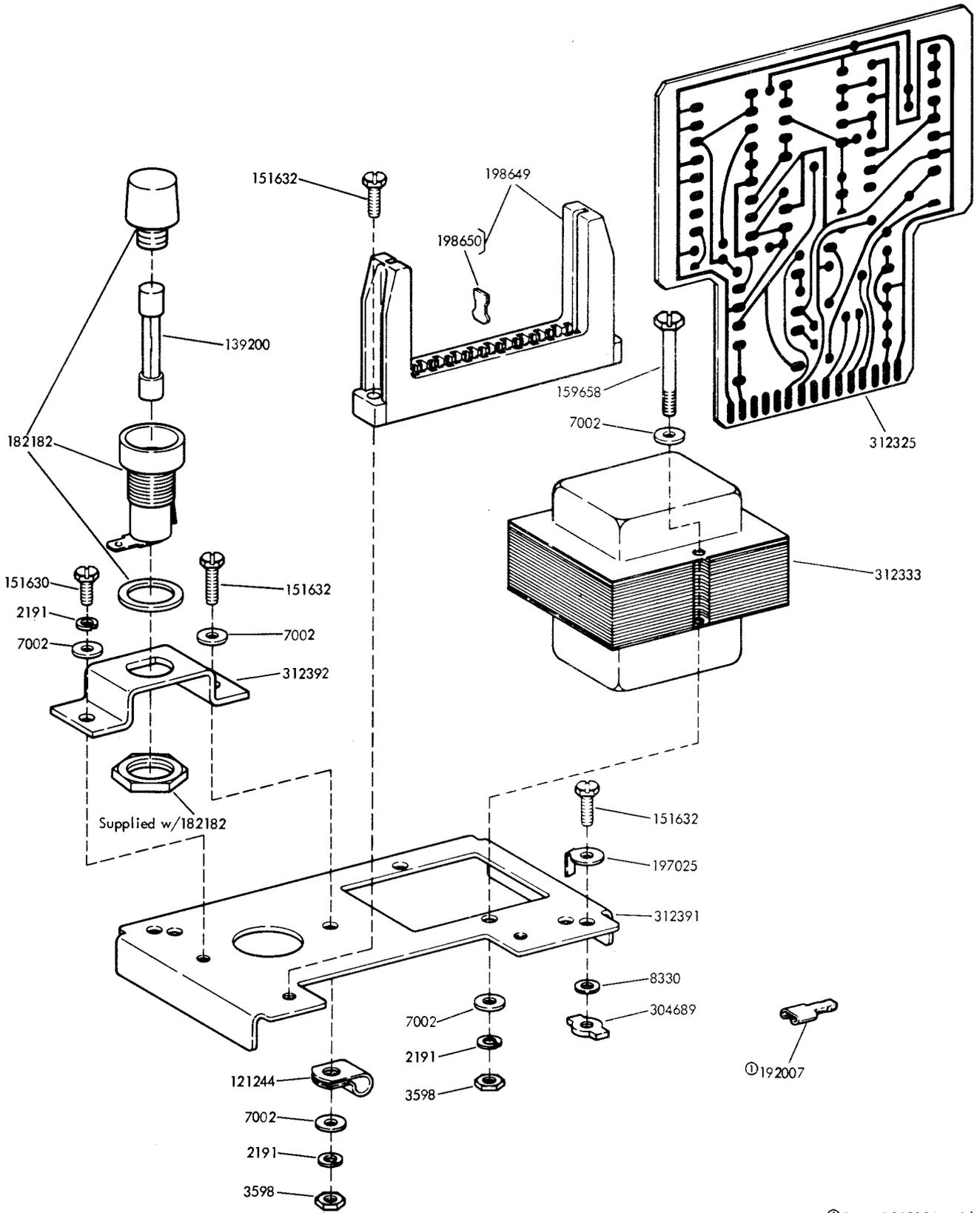


FIGURE 16. 165736 SIGNAL REGENERATOR ASSEMBLY AND 198209 AUXILIARY POWER SUPPLY FOR DC SIGNALLING SETS



① Part of 312326 Cable

FIGURE 17. 305446 SIGNAL REGENERATOR ASSEMBLY

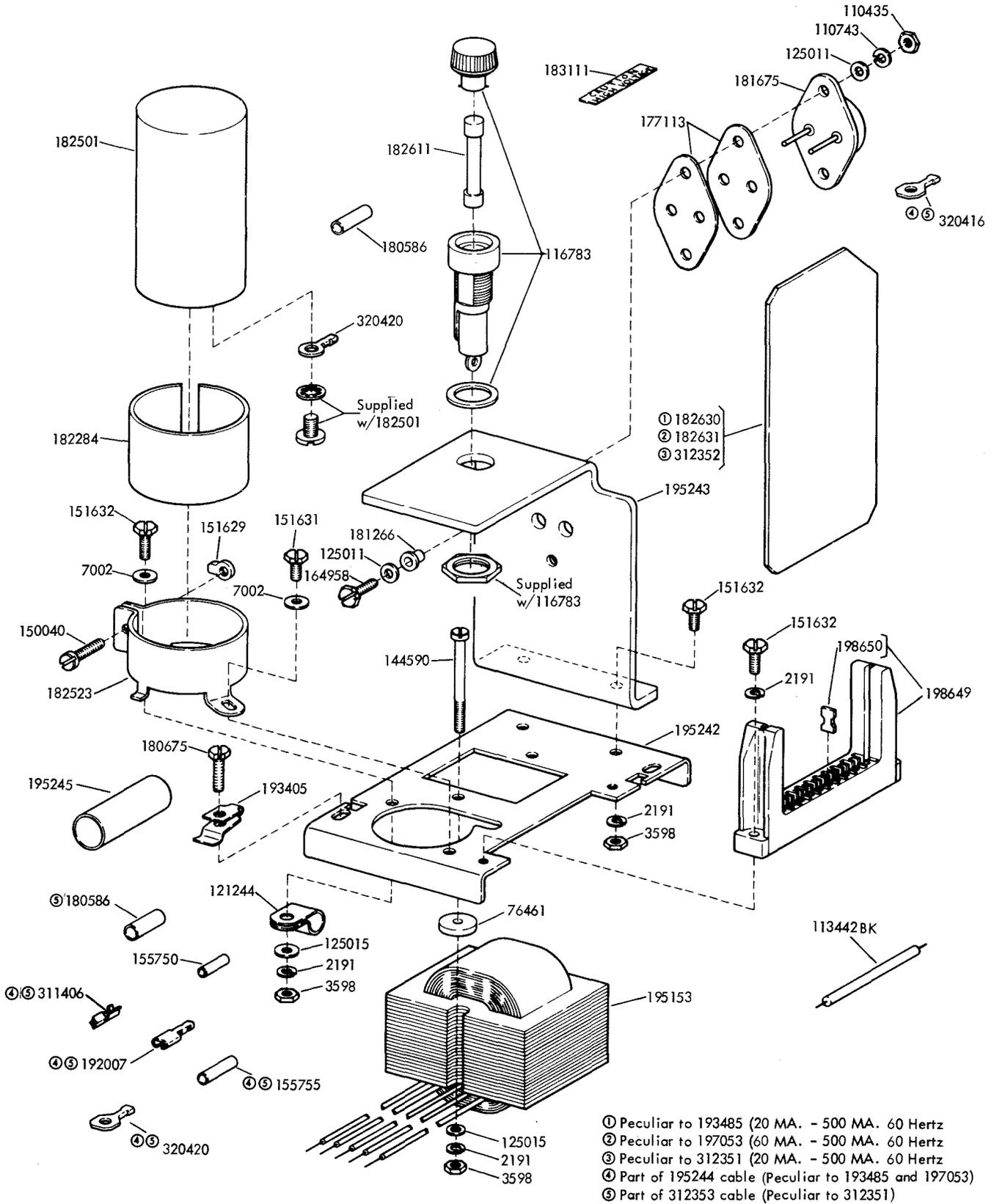


FIGURE 18. 193485, 197053 AND 312351 CONSTANT CURRENT SELECTOR MAGNET DRIVER ASSEMBLIES

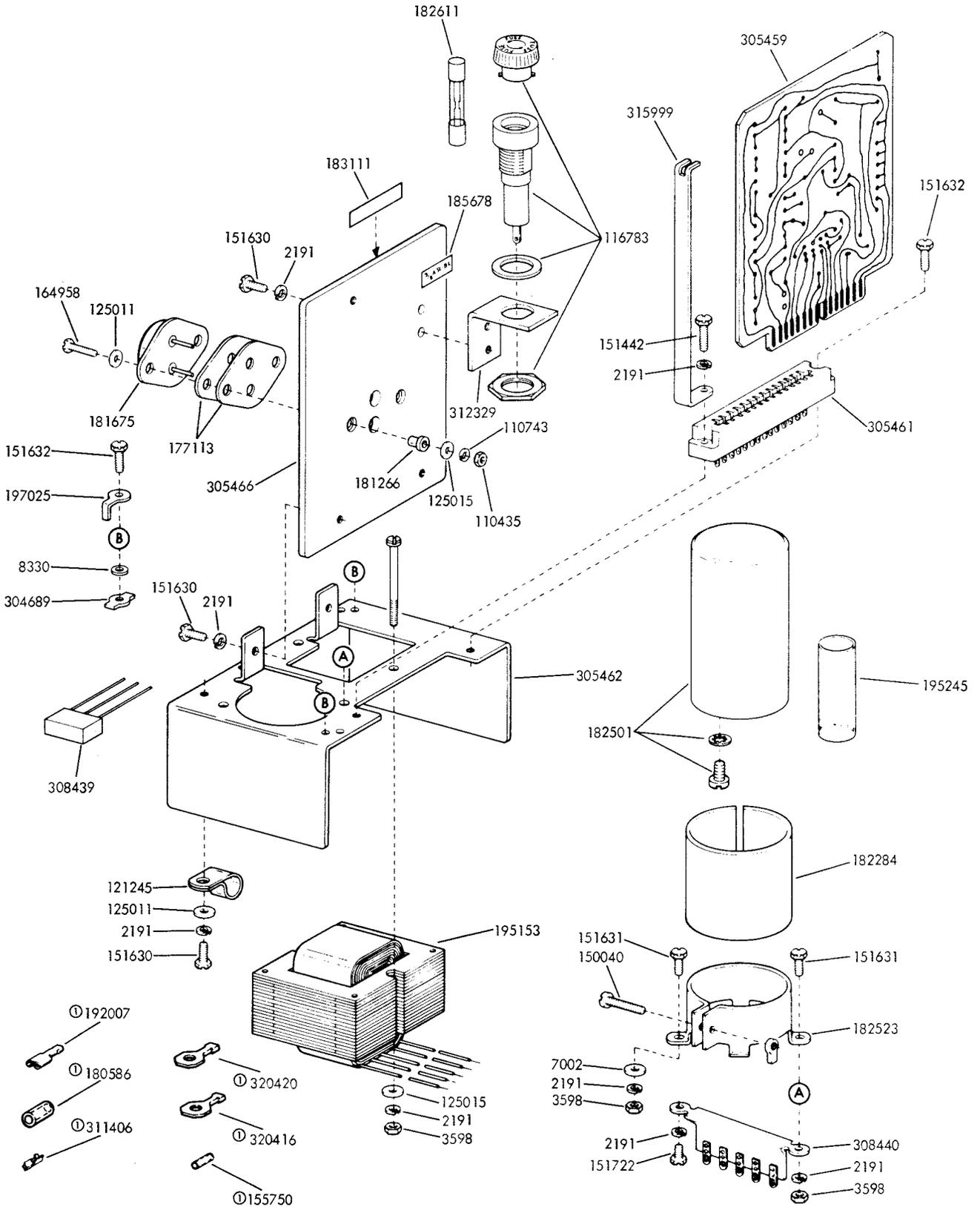


FIGURE 19. 305447 SELECTOR MAGNET DRIVER ASSEMBLY WITH BREAK DETECTOR

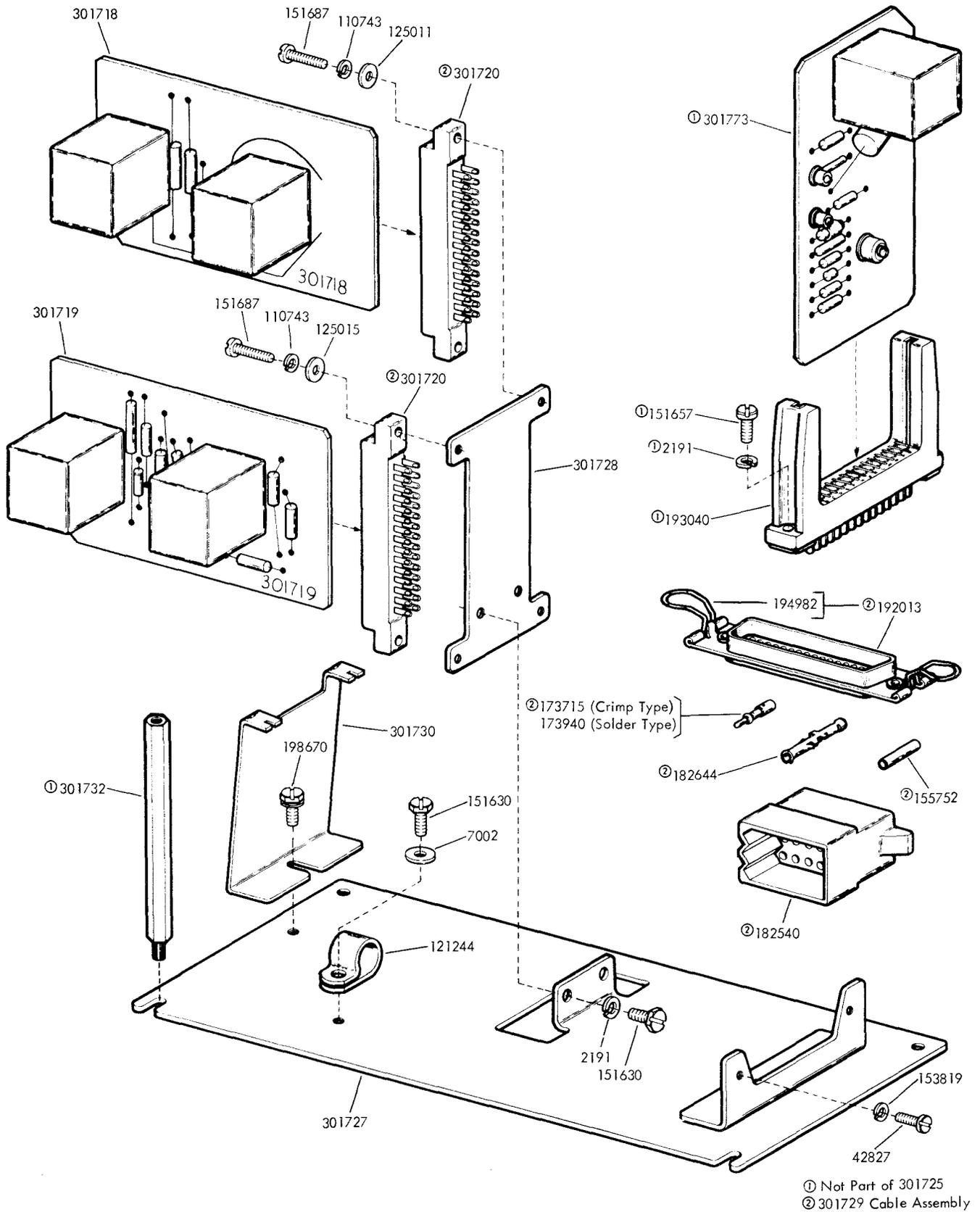


FIGURE 20. 301725 RELAY ASSEMBLY

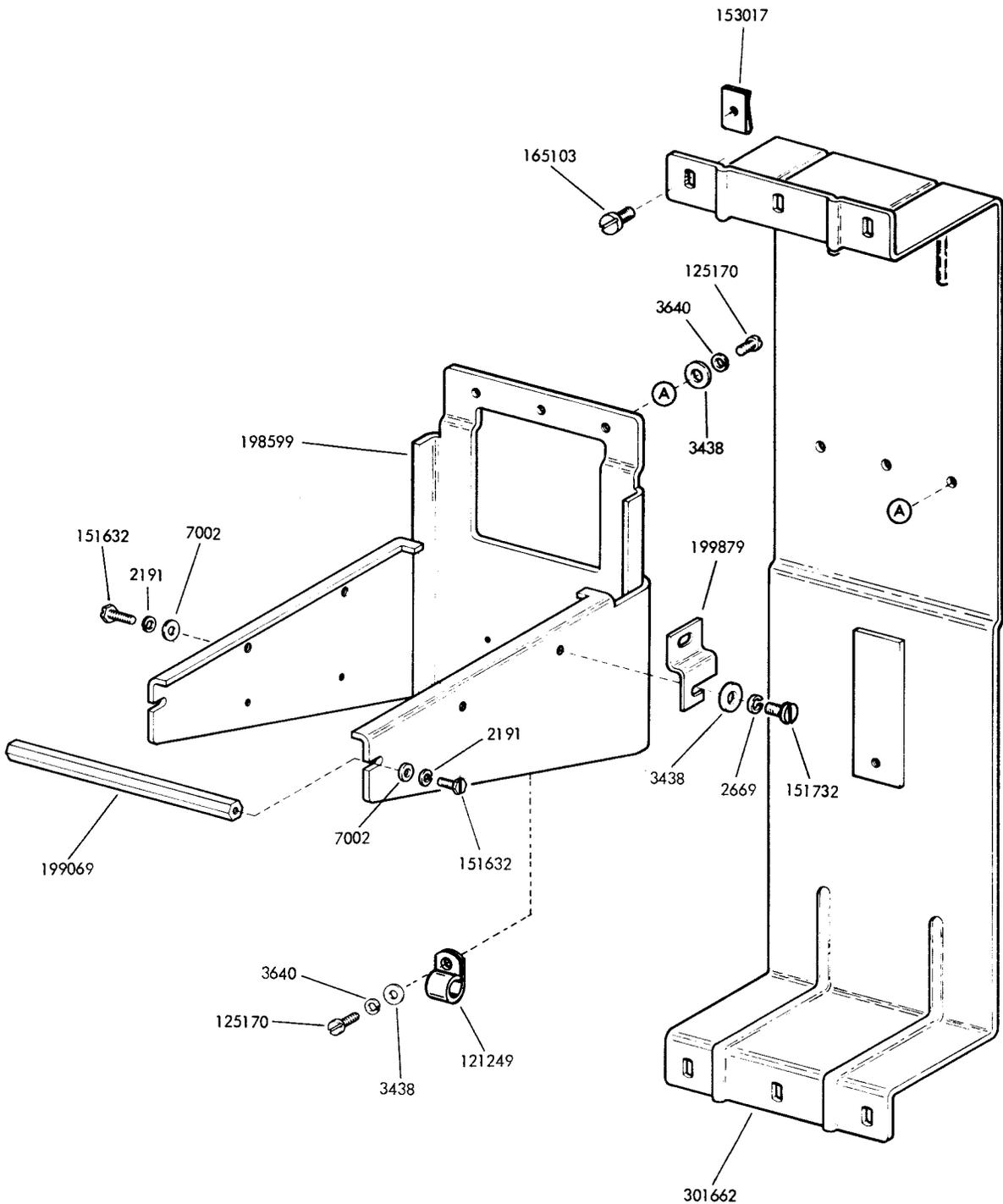
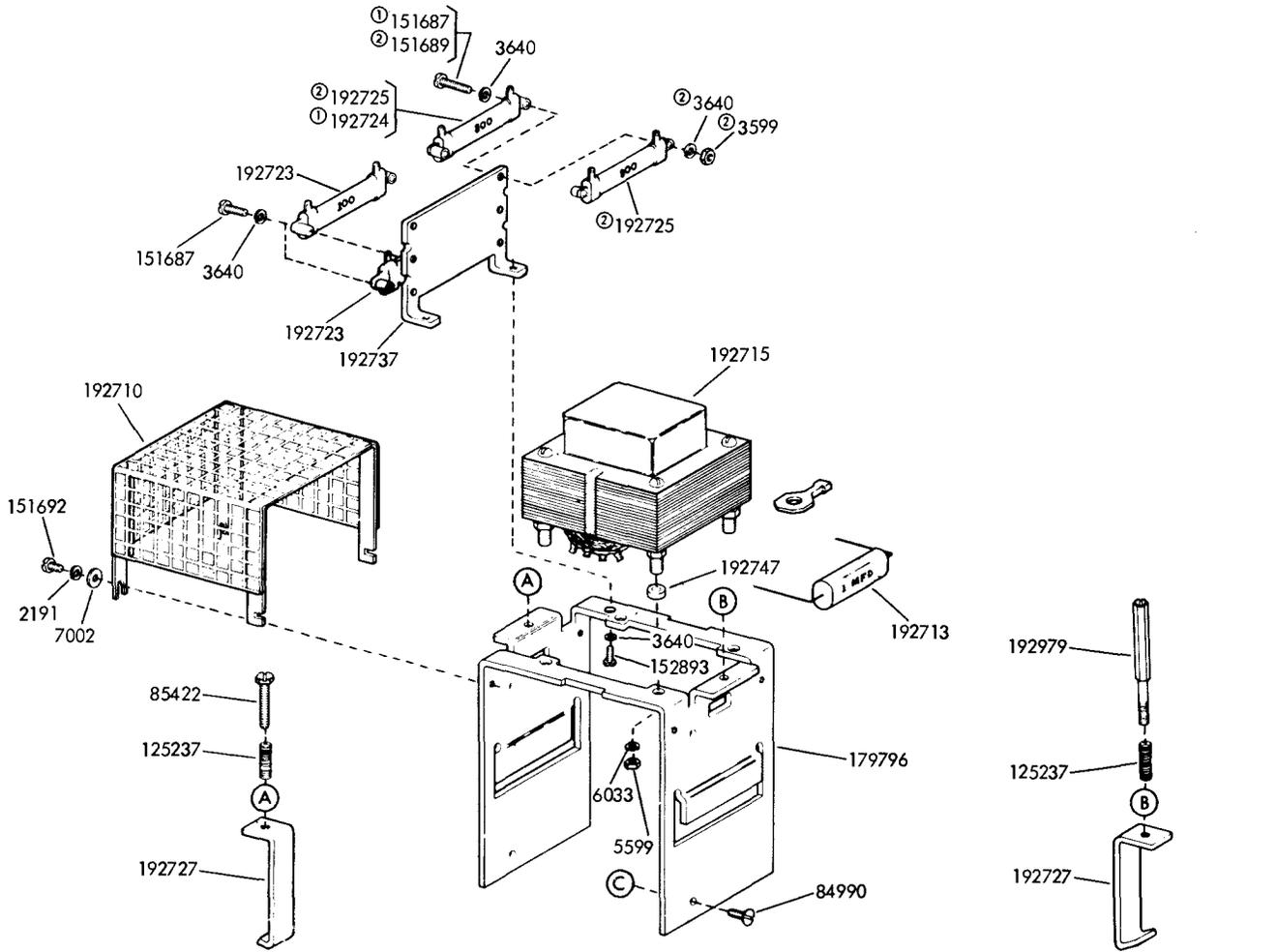
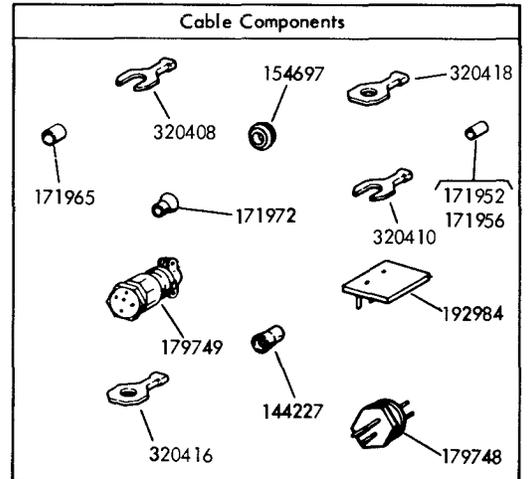


FIGURE 21. MOUNTING PLATES FOR SELECTOR MAGNET DRIVER AND LOW LEVEL KEYER

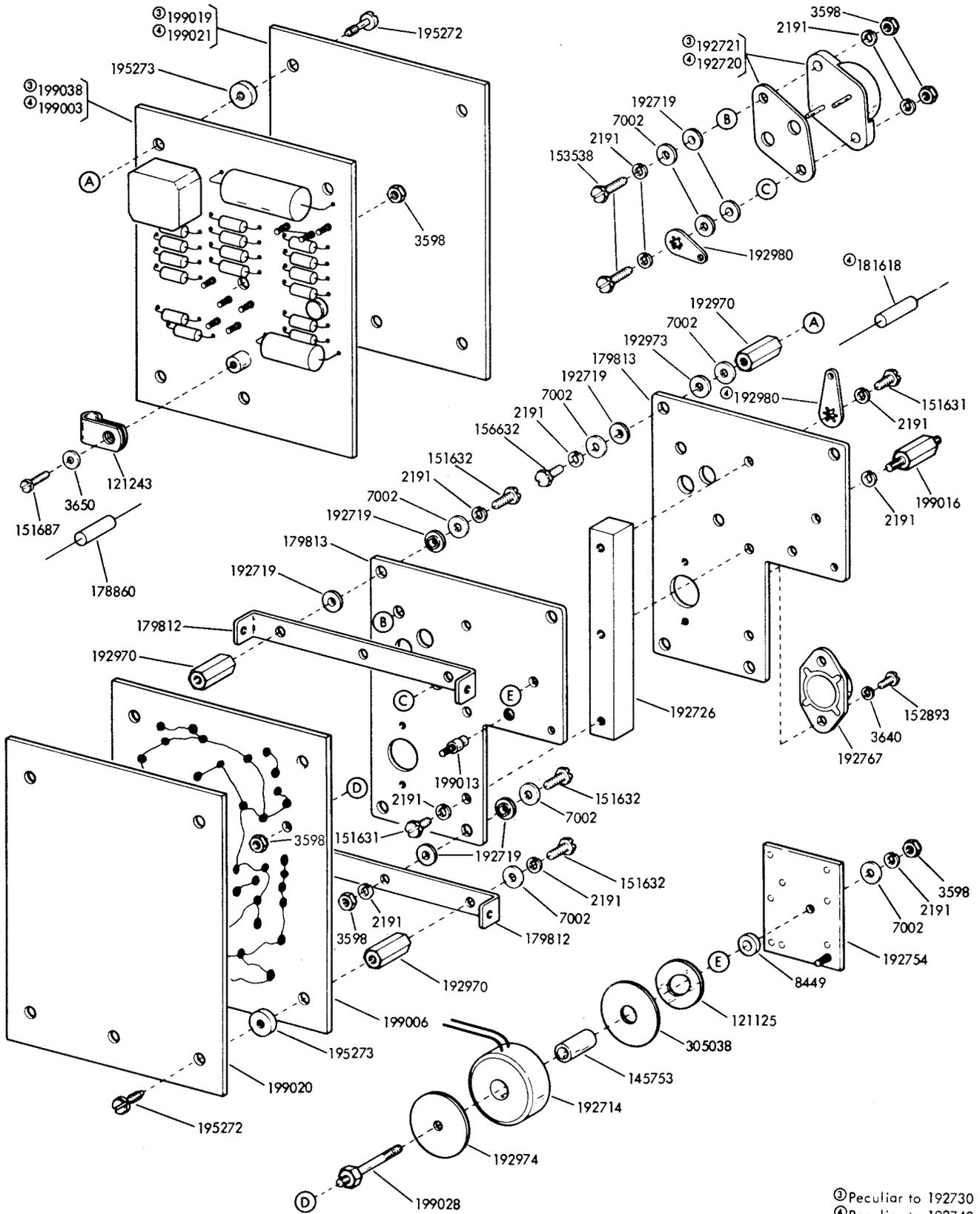


Jumpers			
Part No.	Color	Terminals	Length
151819	Black	320410 (2)	3-1/16"
156880	Black	320408 (2)	6-1/4"
157230	Black	320410 (2)	9-1/4"
157232	Black	320410 (2)	3-1/2"
195269	Green	320418 (1)	3-1/2"
195270	Green	320416 (1)	3-1/2"
305019	Brown		2"
305020	Purple		2"



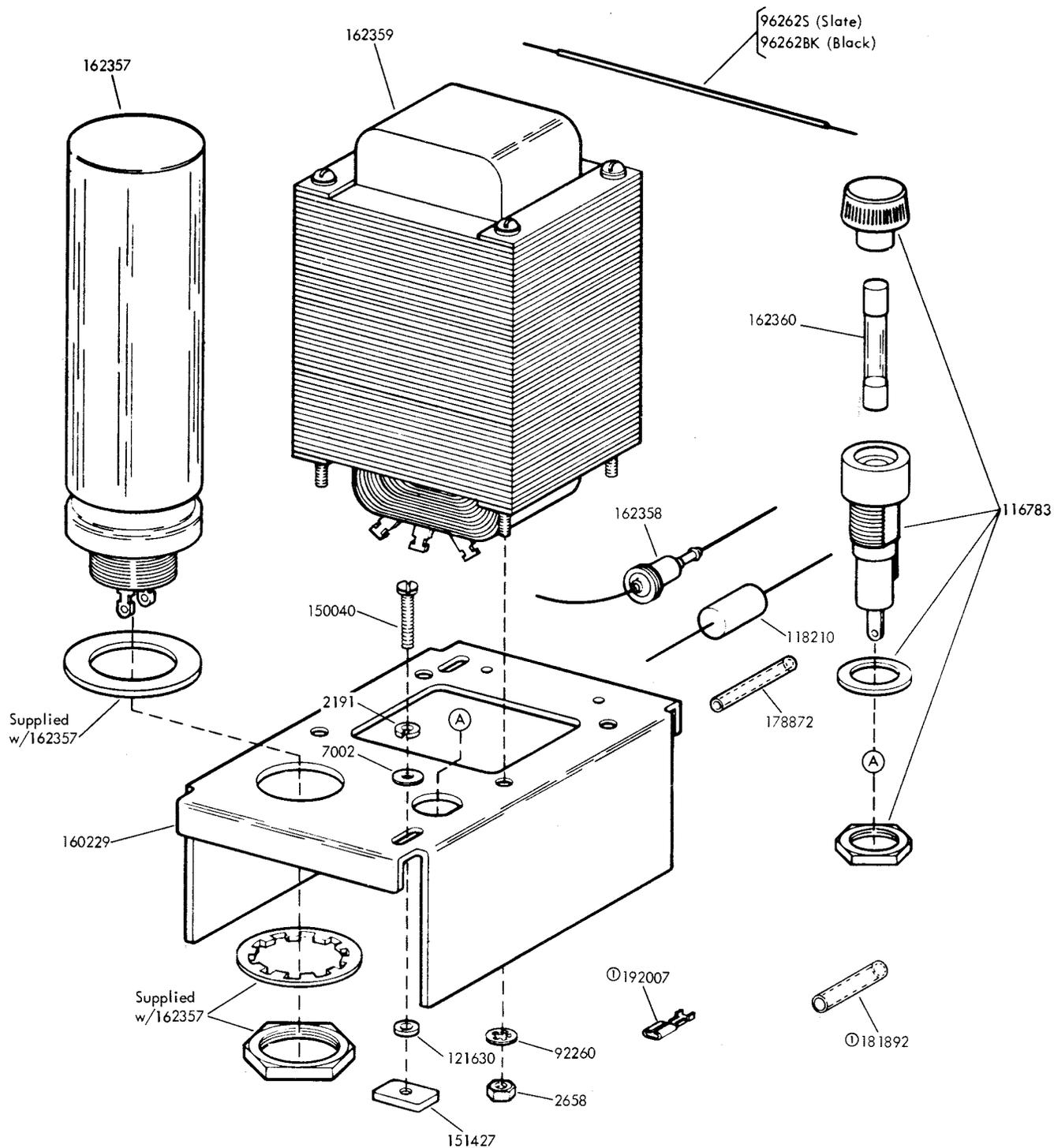
① Peculiar to 192730
 ② Peculiar to 192740

FIGURE 22. 192730 SELECTOR MAGNET DRIVER AND 192740 LOW LEVEL KEYSER ASSEMBLIES



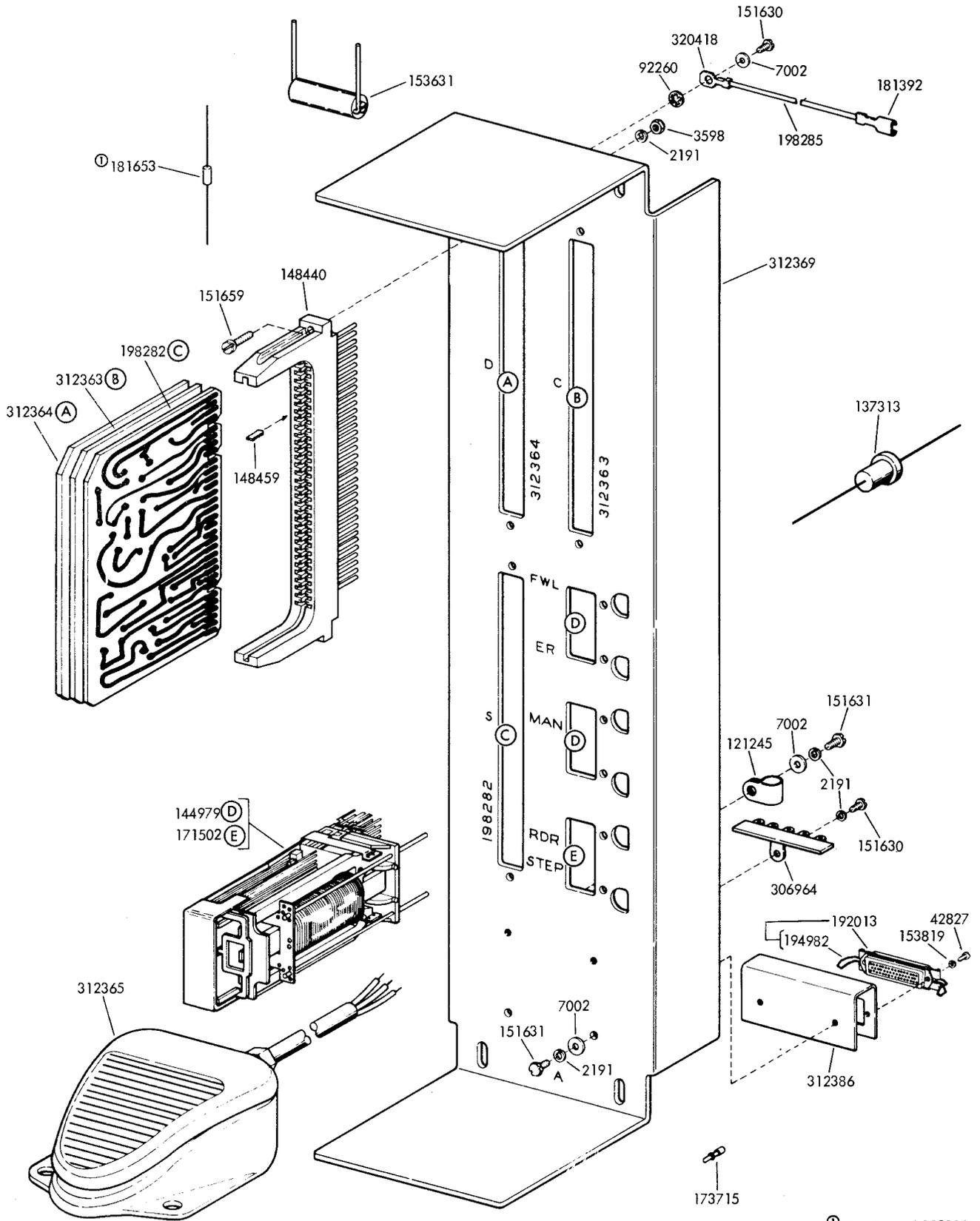
ⓐ Peculiar to 192730
 ⓑ Peculiar to 192740

FIGURE 23. 192730 SELECTOR MAGNET DRIVER AND 192740 LOW LEVEL KEYSER ASSEMBLIES (Continued)



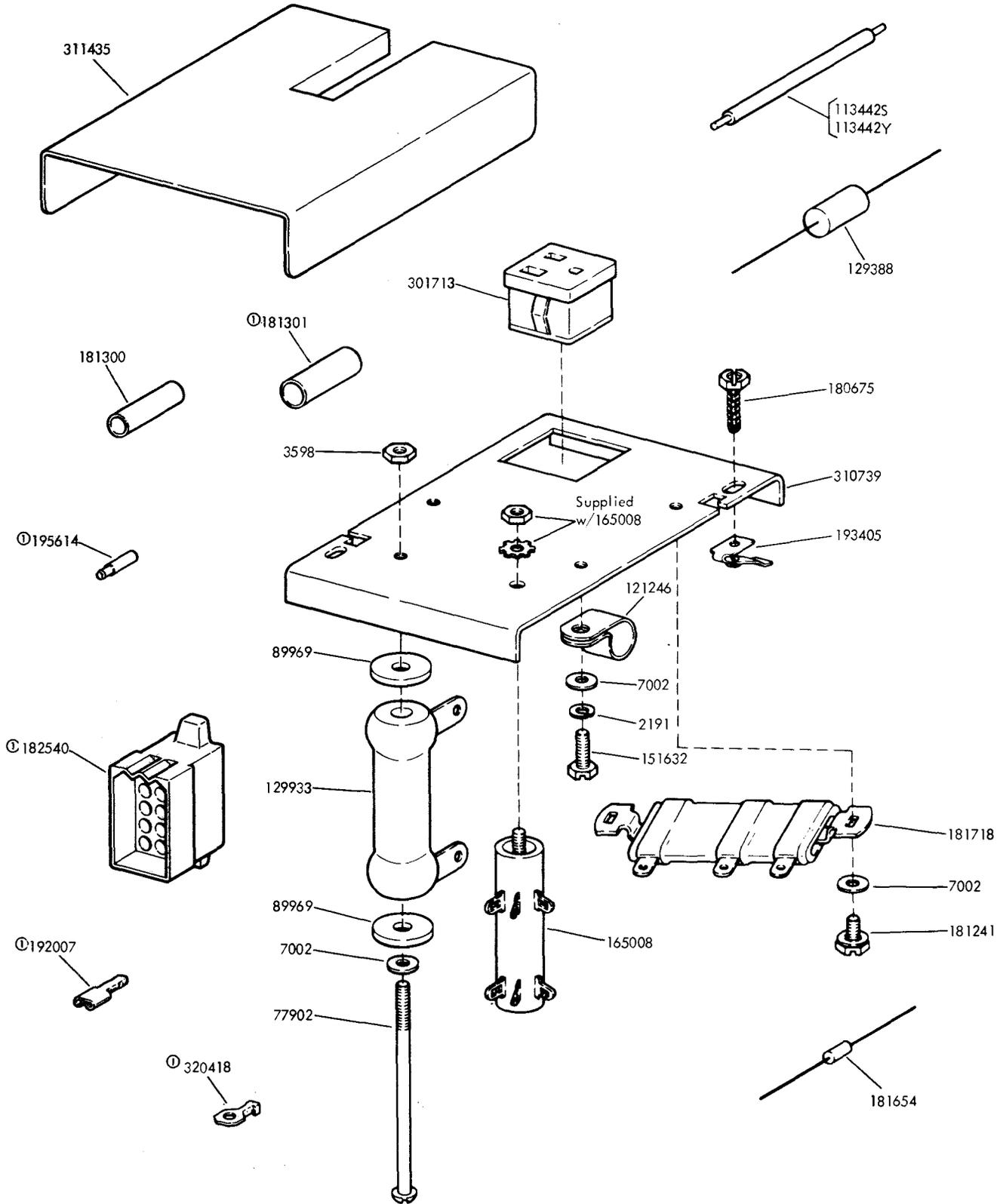
Ⓛ Part of 305060 Cable

FIGURE 25. 305061 RECTIFIER AND CABLE ASSEMBLY



Ⓛ Not Part of 312389

FIGURE 30. 312389 FIXED WORD LENGTH CONTROL MODULE ASSEMBLY



①310748 Cable Assembly

FIGURE 31. 310738 PANEL ASSEMBLY

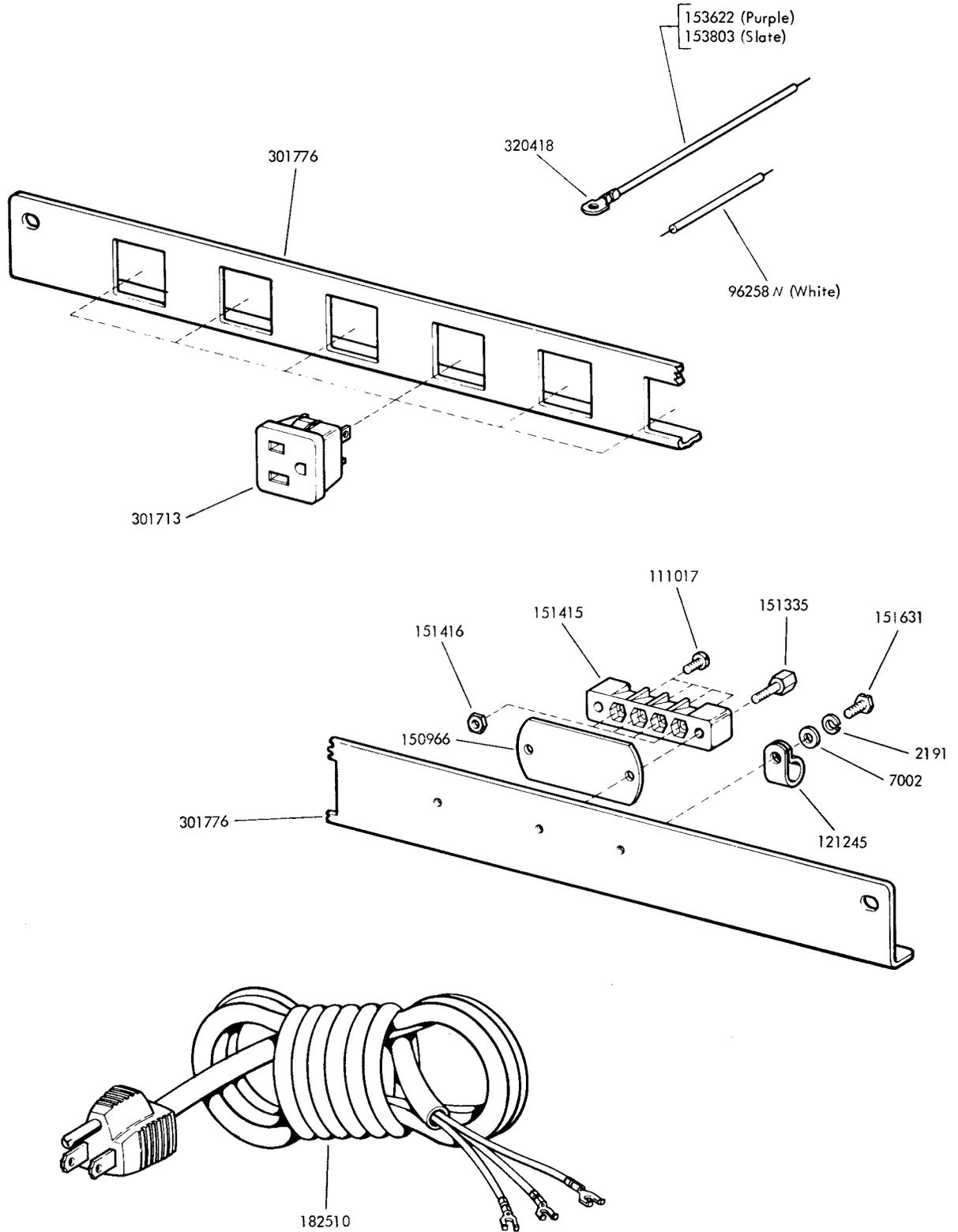


FIGURE 32. 301782 CONNECTOR PLATE ASSEMBLY

INSULATING SLEEVES		
Part No.	Length	I.D.
155750	1/2"	3/32"
155751	1"	1/8"
155752	1/2"	5/64"
155753	1/2"	1/8"
155754	1/2"	1/16"
155755	5/8"	11/64"
178871	1 1/8"	1/16"
181301	1"	1/4"
181892	1"	9/64"

JUMPERS		
Part No.	Length	Terminals
193465	2 3/4"	173716 (2)
193466	13"	192007 (1)
193476	2 3/4"	182643 (2)
197027	9"	181392 (2)
197054	3"	192007 (2)
198259	3"	192007 (3)
198262	5"	192007 (1)
198831	8"	192007 (2)
199326	16"	192007 (1) 182644 (1)
199396	9"	192007 (1) 181392 (1)
307219	6"	192007 (2)
312684	5"	192007 (2)
320265	24"	192007 (1)
328191	12"	192007 (2)
328192	15"	192007 (1) 320418 (1)

CABLE CLAMPS	
Part No.	I.D.
121242	1/8"
121243	3/16"
121244	1/4"
121245	5/16"
121246	3/8"
121247	7/16"
121248	1/2"
121249	5/8"
121250	3/4"
121251	1"
162864	7/8"

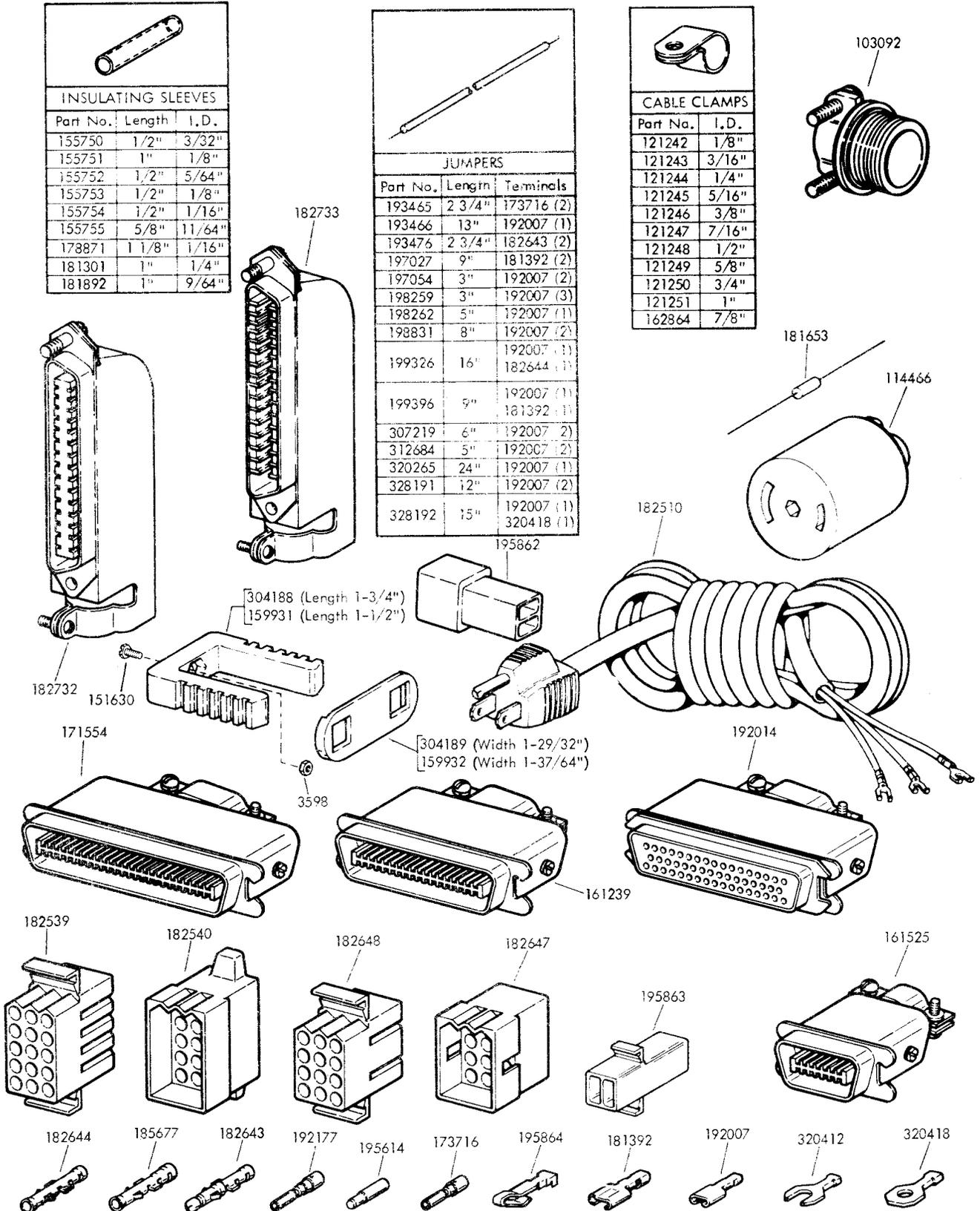


FIGURE 33. CABLE COMPONENTS

NUMERICAL INDEX

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
1158	Screw, 6-32 x 5/16 Fil 10	120216	Resistor, 1,800 Ohm 4,25	151687	Screw, 4-40 x 7/16 Fil 18,20,21,22
2191	Washer, Lock 2 to 30	121125	Washer, Spring 21,22	151689	Screw, 4-40 x 3/4 Fil 20
2658	Nut, 6-32 Hex 23	121242	Clamp, 1/8 ID Cable 31	151692	Screw, 6-40 x 3/16 Fil 6,7,20,22
2669	Washer, Lock 19	121243	Clamp, 3/16 ID Cable 2,13,21,31	151722	Screw, 6-40 x 3/16 Hex 6 to 11,17
3438	Washer, Flat 19	121244	Clamp, 1/4 ID Cable 15,16,18,31	151724	Screw, 10-32 x 5/8 Hex 2,3
3598	Nut, 6-40 Hex 2 to 5,9,10,13 to 17, 21,22, 24 to 29, 31	121245	Clamp, 5/16 ID Cable 6,7,9,17,28,30,31	151732	Screw, 4-40 x 11/32 Fil 19
3599	Nut, 4-40 Hex 6,7,9,11,20	121246	Clamp, 3/8 ID Cable 29,31	151819	Jumper, 3" Black 20
3639	Washer, Lock 2,3	121247	Clamp, 7/16 ID Cable 31	151827	Strap, Terminal 6,7,11
3640	Washer, Lock 19 to 22	121248	Clamp, 1/2 ID Cable 31	151939	Grommet, Rubber 10,13
3646	Washer, Lock 2	121249	Clamp, 5/8 ID Cable 19,31	152893	Screw, 4-40 x 1/4 Hex 20,21,22
3650	Washer, Flat 21	121250	Clamp, 3/4 ID Cable 31	153017	Nut, Speed 19,25,26
5599	Nut, 8-32 Hex 2,20,22	121251	Clamp, 1 ID Cable 31	153455	Resistor, 600 Ohm 3
6033	Washer, Lock 20,22	121630	Washer, Flat 3,6,8 to 11,14,23	153484	Screw, 6-32 Spl 13
6345	Nut, 6-32 Hex 24 to 27	125011	Washer, Flat 16,17,18	153538	Screw, 6-40 x 7/16 Hex 6,7,21,22
7002	Washer, Flat 2 to 5,7,30	125015	Washer, Flat 2,3,5,16,17,18	153622	Jumper, 5" Purple 30
8330	Washer, Flat 2 to 5,15,17	125126	Screw, 2-56 x 9/32 Fil 4,25	153631	Network, Spark Suppression 2 to 5,12,13,24 to 28
8449	Spacer, .094" Thk 21	125170	Screw, 8-32 x 5/16 Fil 19	153803	Jumper, 5" Slate 11,30
42827	Screw, 3-48 x 1/4 Fil 18,24 to 28	125205	Screw, 6-40 x 7/16 Fil 3	153819	Washer, Lock 18,24 to 28
74615	Resistor, 2,000 Ohm 3	125237	Spring, Compression 20,22	153841	Screw, 6-40 x 9/16 Hex 2,3,4
75750	Washer, Insulating 3	129388	Resistor, 15,000 Ohm 29	154697	Grommet, Rubber 6 to 9,11,20,24 to 27
76099	Washer, Flat 14	129851	Resistor, 3,300 Ohm 4	155045	Switch, SP-DT Toggle 9
76461	Washer, Flat 16	129852	Resistor, 2,200 Ohm 4	155750	Sleeve, 3/32 ID x 1/2" Lg Insulating 3,7,11,14,16,17,27,31
77362	Resistor, 350 Ohm 3	129854	Resistor, 10,000 Ohm 22	155751	Sleeve, 1/8 ID x 1" Lg Insulating 31
77902	Screw, 6-40 x 2-3/8 Rd 2,29	129919	Fuse, SL-BL 4 Amp 8,9	155752	Sleeve, 5/64 ID x 1/2" Lg Insulating 18,31
80854	Screw, 6-40 x 1-7/8 Fil 14	129933	Resistor, 1,200 Ohm 29	155753	Sleeve, 1/8 ID x 1/2" Lg Insulating 31
84990	Screw, 6-40 x 1/4 Flat 20,22	137313	Capacitor, 50 MFD 28	155754	Sleeve, 1/16 ID x 1/2" Lg Insulating 31
85422	Screw, 10-32 x 15/16 Hex 20,22	137602	Resistor, 470 Ohm 4	155755	Sleeve, 11/64 ID x 5/8" Lg Insulating 5,7,11,14,16,24 to 27,31
87477	Resistor, 1,000 Ohm 2	139200	Fuse, 1/8 Amp 15	155858	Resistor, 700 Ohm 5,14
89969	Washer, Insulating 2,5,14,29	139820	Fuse, SL-BL 2.5 Amp 6	156536	Screw, 4-40 x 1/8 Fil 6,7
90789	Washer, Flat 7,12	142269	Fuse, SL-BL 3 Amp 11	156632	Screw, 6-40 x 13/32 Hex 3,5,6 to 9,11,21
90790	Washer, Flat 2	144227	Connector, Black Insulated 20	156880	Jumper, 2-3/8" Black 20
91683	Nut, 15/32-32 Hex 9	144590	Screw, 6-40 x 1-3/8 Fil 16	157230	Jumper, 6" Black 20
91742	Nut, Lock 11	144979	Relay, 700 Ohm 27,28	157232	Jumper, 9-1/4" Black 20
92260	Washer, Lock 23,27,28	145003	Relay 27	158286	Transformer 6 to 11,13
93117	Washer, Lock 4,25	145022	Relay 4,5,24,25,26	157658	Screw, 6-40 x 1-3/32 Hex 15
94665	Screw, 6-40 Shoulder 2	145753	Bushing 21,22	159931	Clamp 31
96258W	Jumper, 3" White 30	147014	Relay 3	159932	Keeper 31
96262BK	Jumper, 4" Black 23	148440	Connector, 36 Pt Circuit Card 24 to 28	160229	Plate, Mounting 23
96262S	Jumper, 4" Slate 23	148459	Tab, Polarizing 24 to 28	160847	Stud 2,3,4,25
98718	Washer, Flat 2	150040	Screw, 6-40 x 5/8 Fil 14,16,17,23	161136	Fuse, SL-BL 6-1/4 Amp 6,7,11
102092	Screw, 6-40 x 1-17/32 Rd 3	150966	Insulator, Terminal Block 6 to 9,11,30	161239	Connector, 36 Pt Plug 31
103092	Connector, Cord 11,31	151152	Screw, 4-40 x 3/16 Hex 24,25,26	161525	Connector, 14 pt Plug 24 to 26,31
103469	Screw, 4-40 Spl 2	151335	Stud 6 to 9,11,30	162357	Capacitor, 500 MFD 23
107116	Washer, Lock 2,3,24,25,26	151346	Screw, 6-40 x 3/8 Fil 14,24 to 27	162358	Diode 23
110435	Nut, 4-40 Hex 16,17	151415	Block, Terminal 6 to 9,11,30	162359	Transformer, Power 23
110743	Washer, Lock 6,7,9,11,16,17,18,24 to 27	151416	Nut, 6-40 Hex 6 to 9,11,30	162360	Fuse, SL-BL .8 Amp 23
111017	Screw, 6-40 x 5/16 Fil 6,8,9,11,30	151418	Fuse, 10 Amp 6	162361	Screw, 6-40 x 1-7/16 Fil 5
112080	Washer, Flat 2,3	151427	Plate, Clamp 14,23	162864	Clamp, 7/8 ID Cable 31
113442BK	Jumper, 2-1/2" Black 16	151442	Screw, 6-40 x 1/2 Hex 2,17	164958	Screw, 4-40 x 1/2 Hex 15,17
113442S	Jumper, 2-1/2" Slote 29	151629	Nut, 6-40 Lug 16	165008	Turret, Terminal 29
113442Y	Jumper, 2-1/2" Yellow 29	151630	Screw, 6-40 x 1/4 Hex 6,7,8,11,15,17,18,25 to 28,31	165048	Relay 24,25,26
113443	Jumper, 2-1/3" Orange 5	151631	Screw, 6-40 x 5/16 Hex 2,3,4,10,12,16,17,21,24 to 28,30		
114466	Connector, 3 Pt Receptacle 31	151632	Screw, 6-40 x 3/8 Hex 2,4,9,10,13,15,16,17,19,21,22,29		
114478	Nut, 15/32-32 Hex 9	151637	Screw, 4-40 x 1/4 Fil 24 to 27		
114654	Strip, Terminal 4,25,26	151657	Screw, 6-40 x 1/4 Fil 10,18		
115358	Fuse, 1 Amp 3	151658	Screw, 6-40 x 5/16 Fil 6,7		
116783	Holder, Fuse 3,6 to 9,11,16,17,23 to 27	151659	Screw, 6-40 x 1/2 Fil 24 to 28		
118180	Resistor, 10,000 Ohm 22				
118187	Resistor, 27,000 Ohm 4				
118203	Resistor, 4,700 Ohm 2				
118210	Resistor, 22,000 Ohm 23				

NUMERICAL INDEX (Continued)

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
165059	Bracket, Mounting 24 to 27	181392	Terminal, Tab Type 8,11,24 to 28, 31	192724	Resistor, 600 Ohm 20
165060	Socket, Tube 24 to 27	181618	Capacitor, .01 MFD 21	192725	Resistor, 800 Ohm 20,22
165103	Screw, 12-24 x 5/8 Rd 19,25,26	181653	Diode 2,24,25,26,28,31	192726	Black 21
165116	Terminal 6,7,9,11	181654	Diode 29	192727	Clamp 20,22
165294	Guide, Wire 24 to 27	181675	Transistor, Power 16,17	192730	Driver Assembly, Selector Magnet 1,20,21
165330	Resistor, 1,000 Ohm 4,25	181718	Resistor, 2,000 - 10,000 Ohm 29	192737	Bracket, Resistor 20,22
165392	Relay, 525 Ohm 24 to 27	181810	Relay 6,7	192740	Keyer Assembly, Low Level 1, 20,21
165704	Cable w/Terminals 13	181819	Connector, 15 Pt Circuit Card 3	192747	Spacer, .125" Thk 20,22
165708	Relay Assembly 1,13	181843	Plate, Name 6	192750	Rectifier Assembly 1,22
165710G	Jumper, 8-1/2" Green 8	181848	Plate, Name 6	192754	Varistor Assembly 21
165735	Cable Assembly 14	181849	Plate, Name 6	192767	Transistor 21
165736	Regenerator Assembly, Signal 1,14	181891	Sleeve, 3/16 ID x 2-1/2" Lg Insulating 13	192970	Past 21,22
171195	Post 4	181892	Sleeve, 9/64 ID x 1" Lg Insulating 23,31	192973	Washer, Insulating 21
171461	Capacitor, 900 MFD 24 to 27	182182	Holder, Fuse .15	192974	Washer, Insulating 21,22
171462	Resistor, 450 Ohm 26	182193	Insulator 13	192979	Stud 20,22
171501	Relay 12	182193	Insulator 13	192980	Terminal 21,22
171502	Relay 27,28	182284	Insulator, .015" Thk 16,17	192984	Socket, 3 Pt 20
171503	Relay 4,25,26	182501	Capacitor, 1,500 MFD 16,17	193040	Connector w/Guide Slot 18
171516	Relay 27	182510	Cord, Power 30,31	193401	Plate, Mounting 13
171524	Resistor, 700 Ohm 4,25	182520	Rectifier 4,25,26	193405	Nut, Speed 4,12,13,14,16,29
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