

RADIO FREQUENCY INTERFERENCE (RFI) SUPPRESSION
FEATURES FOR LOW LEVEL SETS
28 ELECTRICAL SERVICE ASSEMBLIES (ESA)
PARTS

SECTION 573-613-800TC

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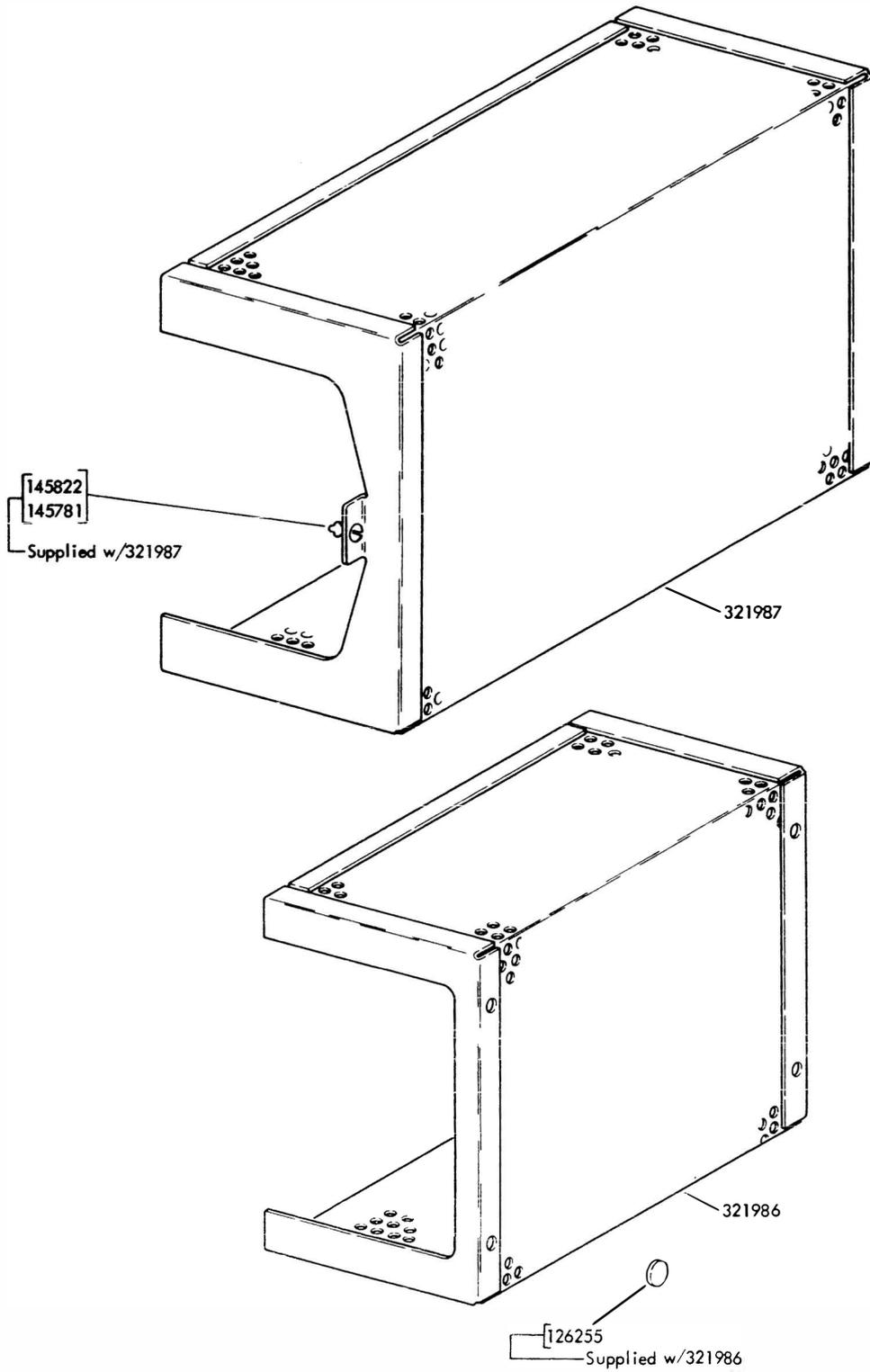


FIGURE 1. ELECTRICAL SERVICE ASSFMRIY COVERS

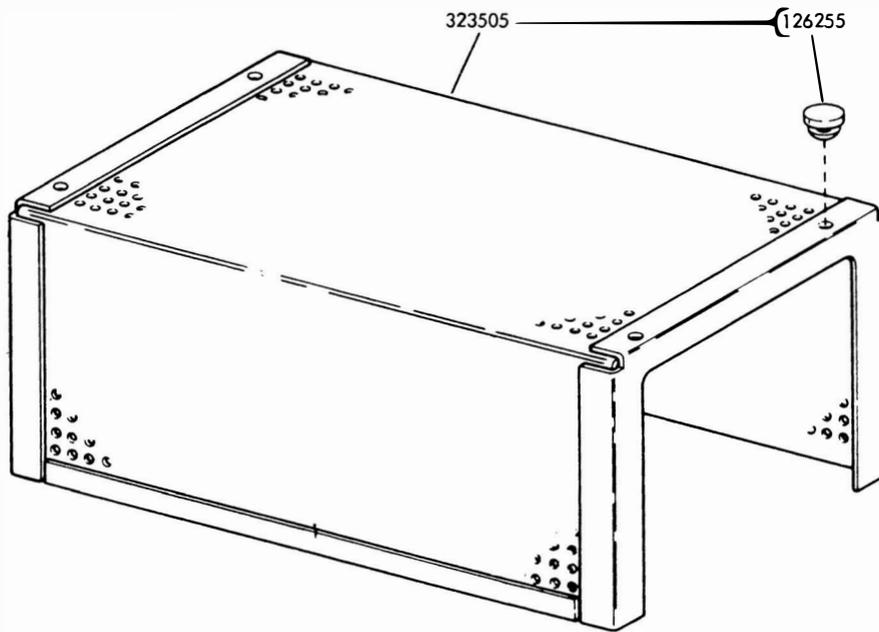
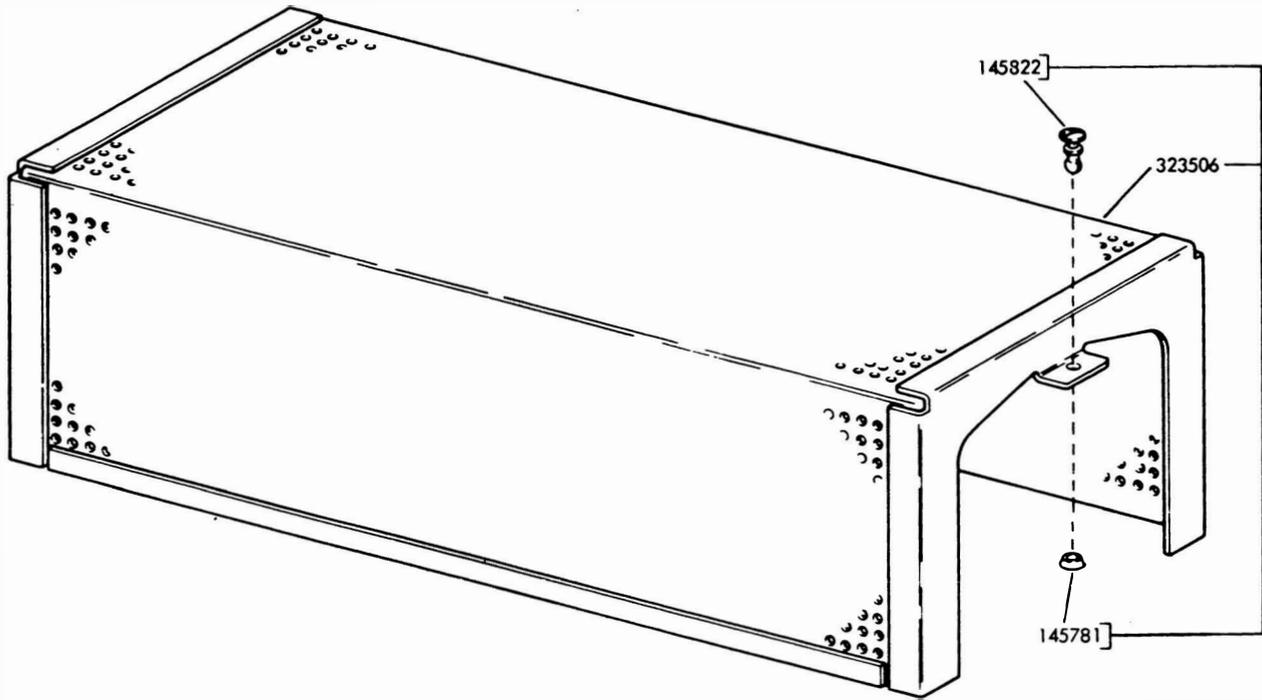


FIGURE 2. ELECTRICAL SERVICE ASSEMBLY COVERS (Continued)

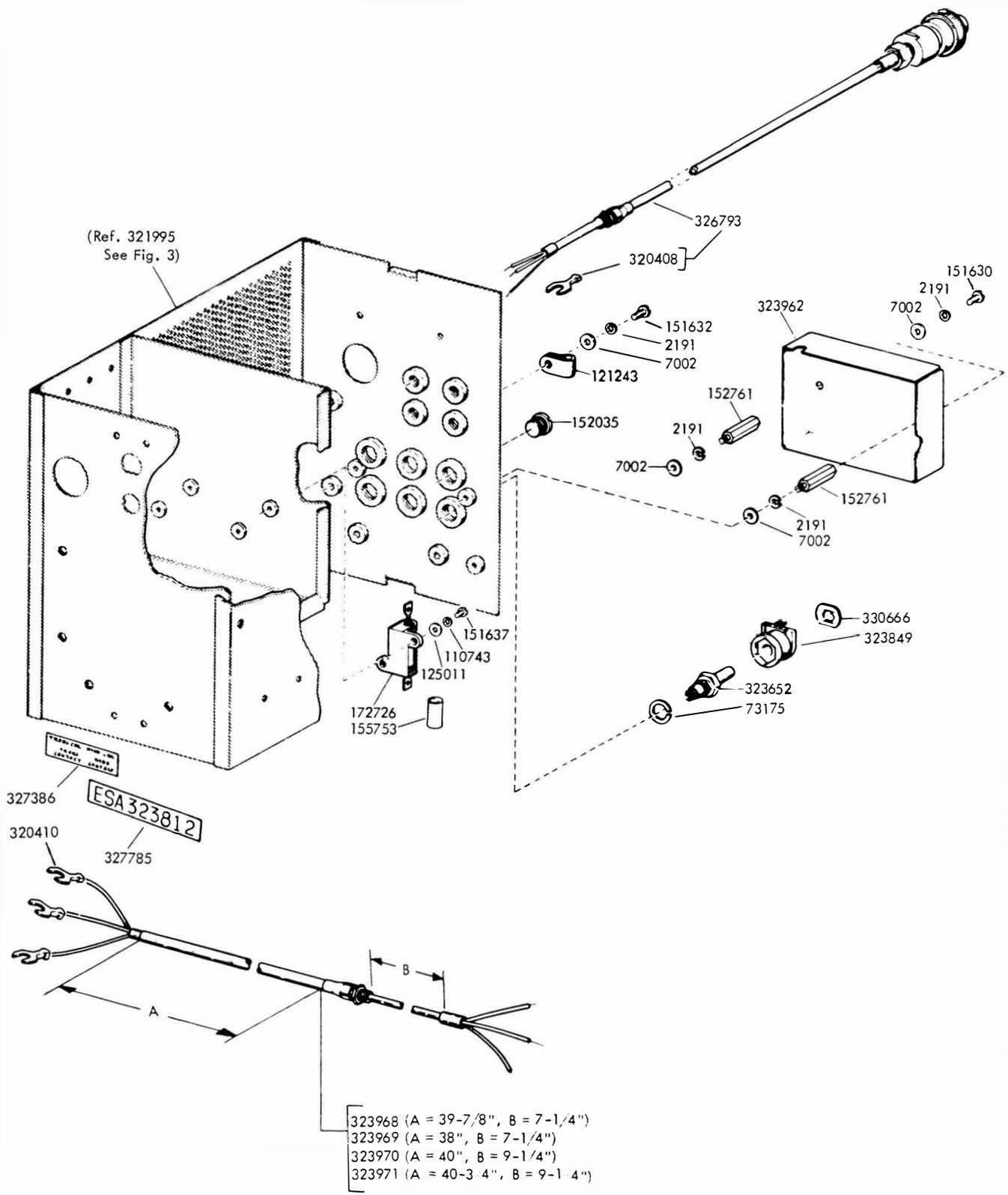


FIGURE 4. 323812 ELECTRICAL SERVICE ASSEMBLY (Continued)

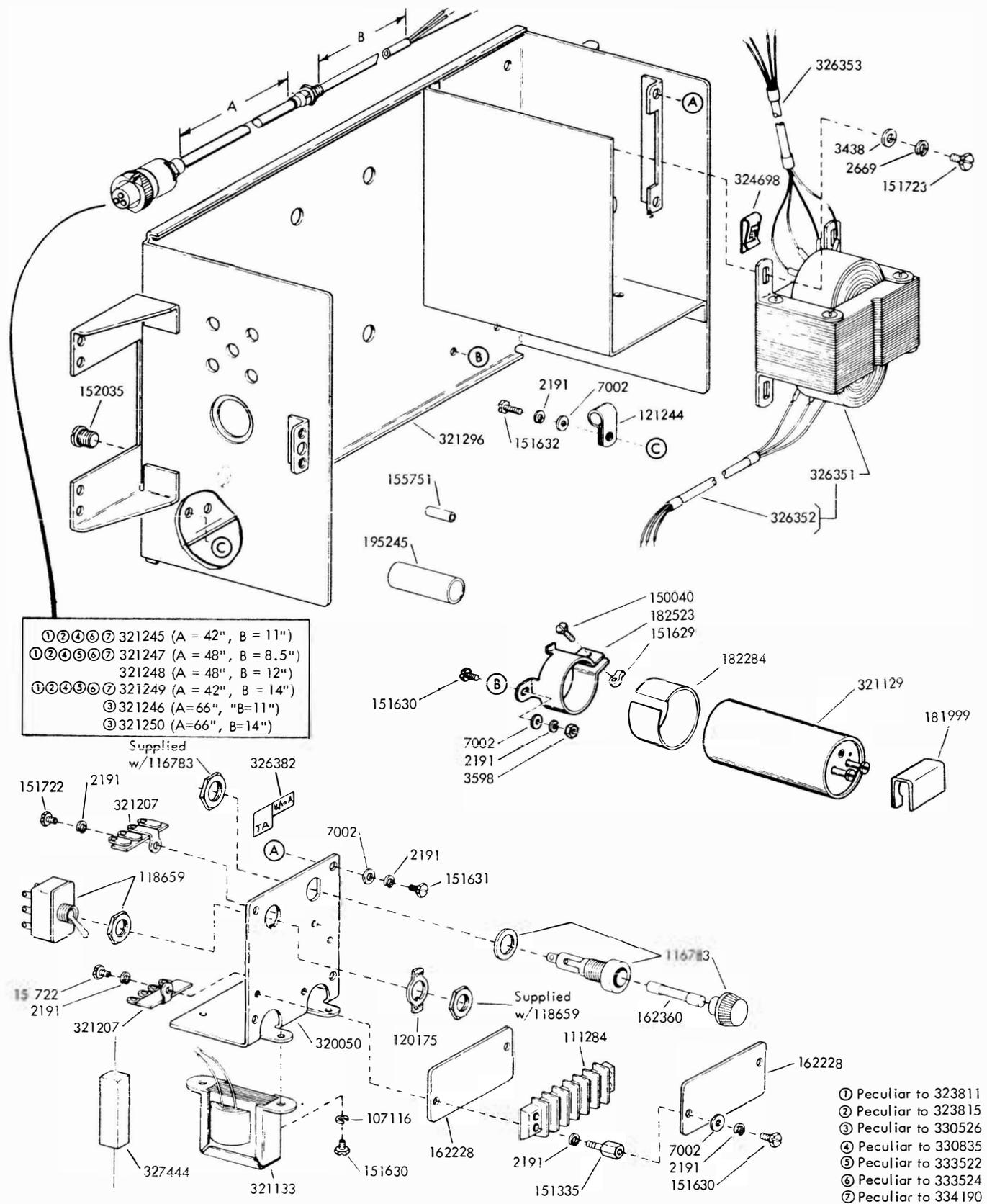


FIGURE 5. 323811, 323815, 330526, 330835, 333522, 333524 and 334190 ELECTRICAL SERVICE ASSEMBLIES - Used w/ASR Set

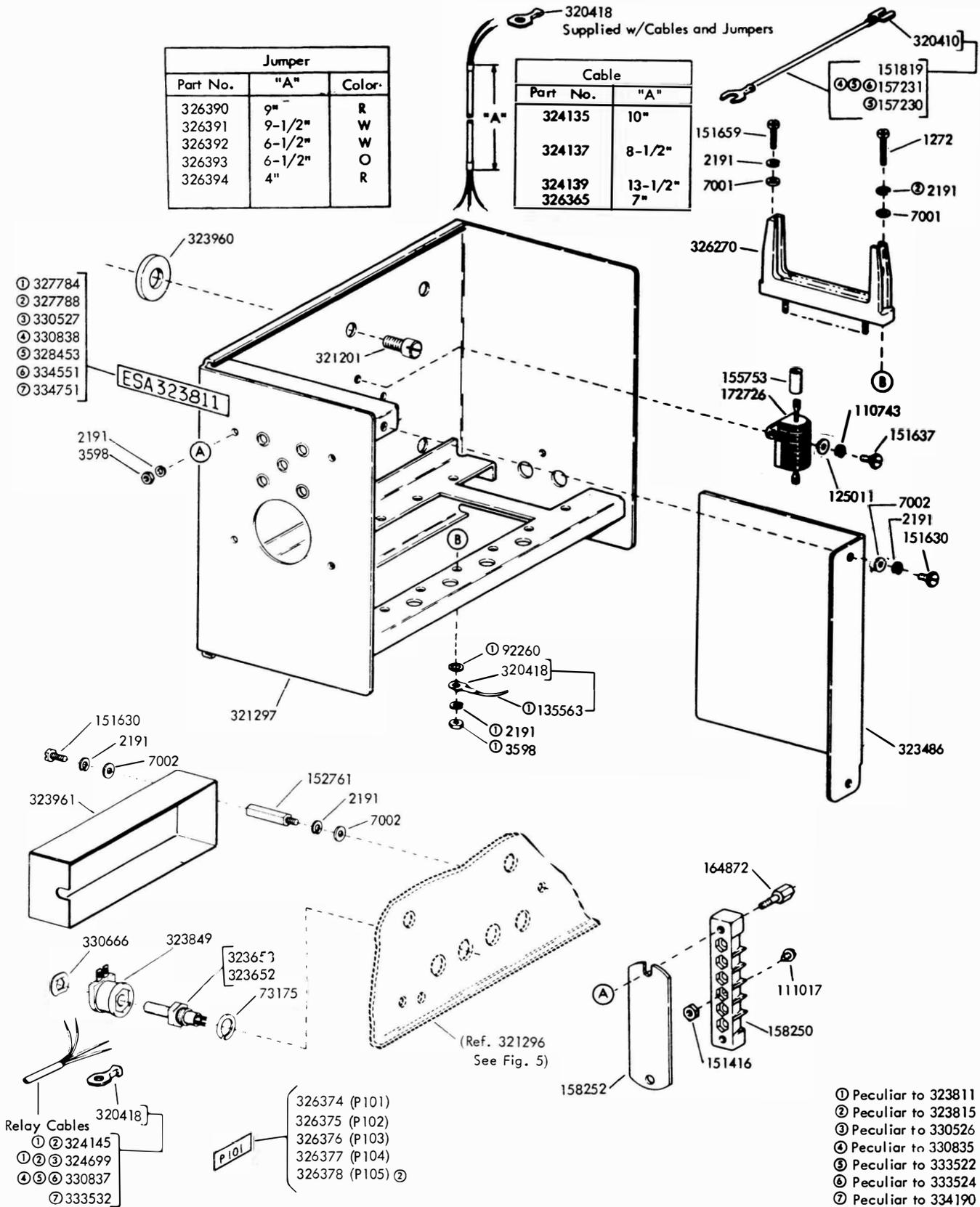


FIGURE 6. 323811, 323815, 330526, 330835, 333522, 333524 and 334190 ELECTRICAL SERVICE ASSEMBLIES (Continued)

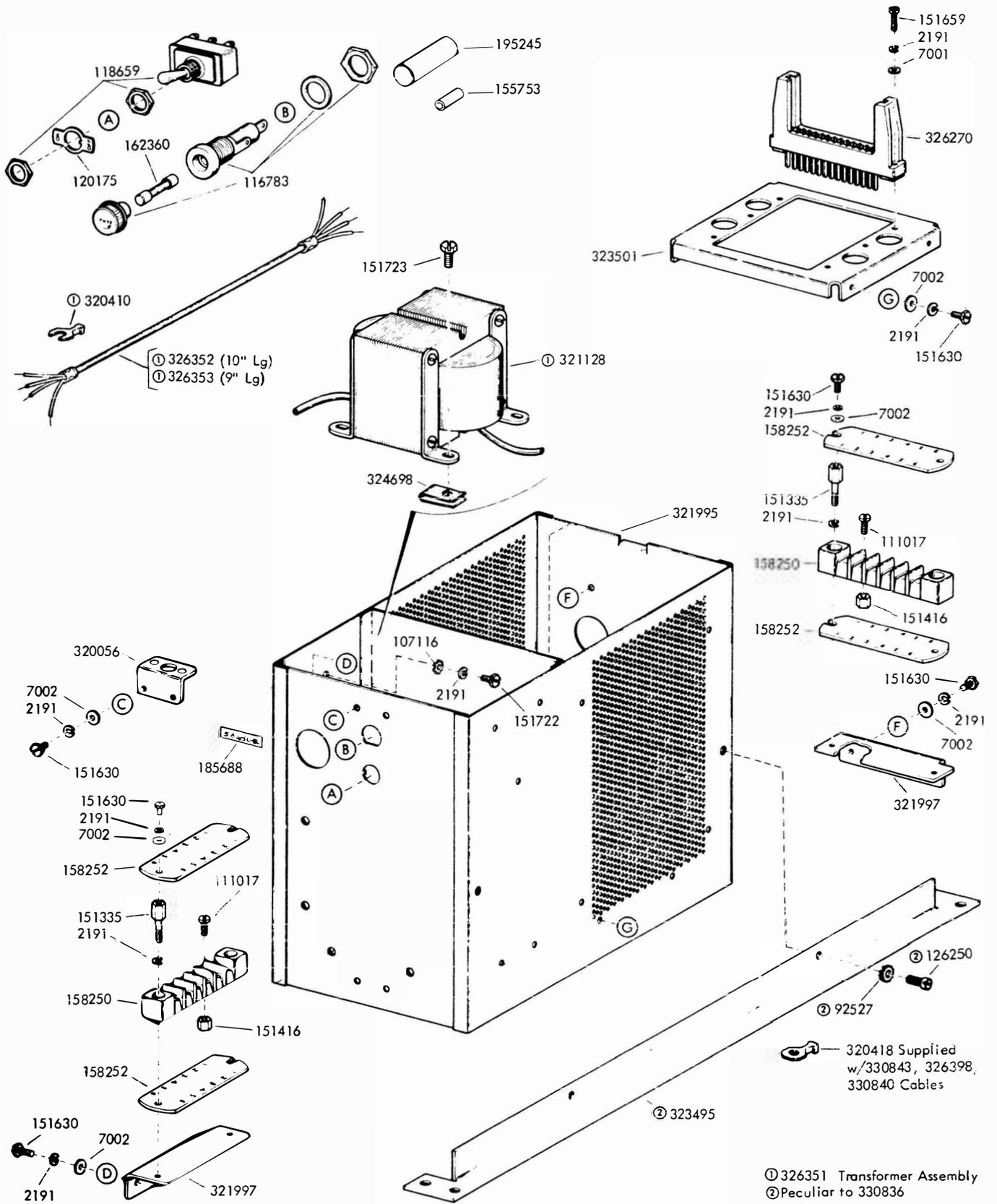


FIGURE 7. 330836 and 333523 ELECTRICAL SERVICE ASSEMBLIES -
Used w/ASR Set

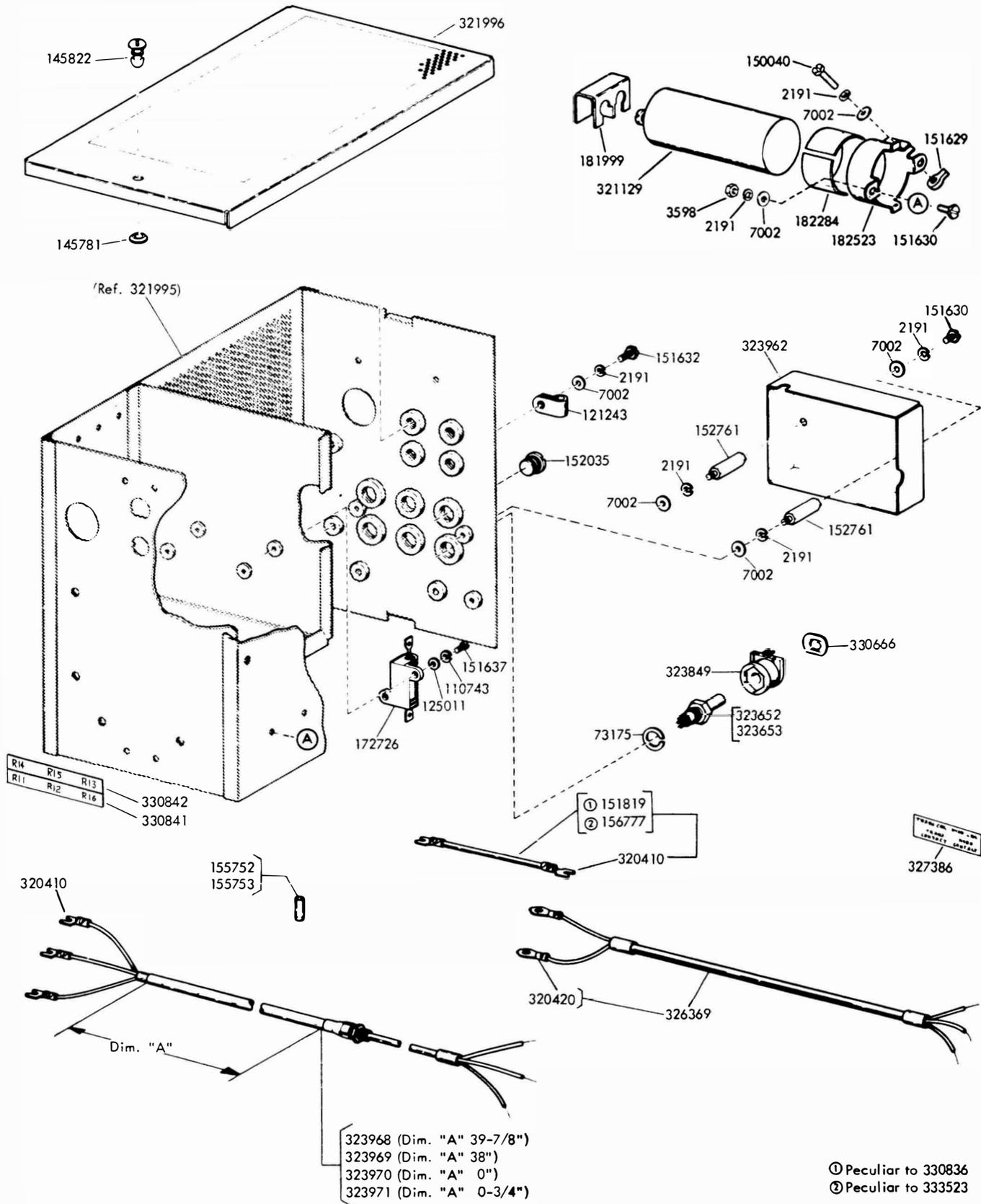


FIGURE 8. 330836 and 333523 ELECTRICAL SERVICE ASSEMBLIES (Continued)

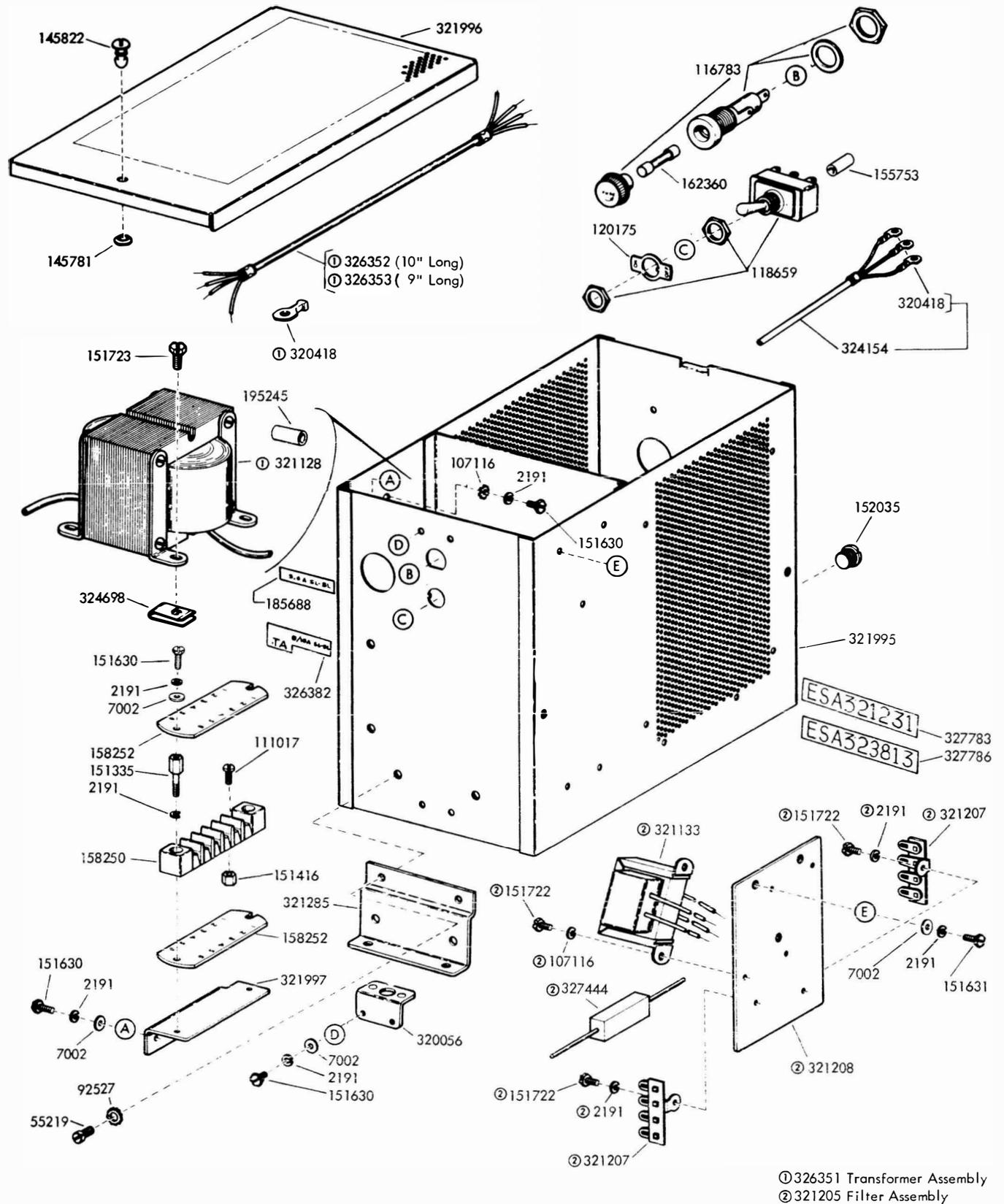


FIGURE 9. 321231 ELECTRICAL SERVICE ASSEMBLY - Used w/ROTR, KSR and RO Sets and
 323813 ELECTRICAL SERVICE ASSEMBLY - Used w/ROTR Set

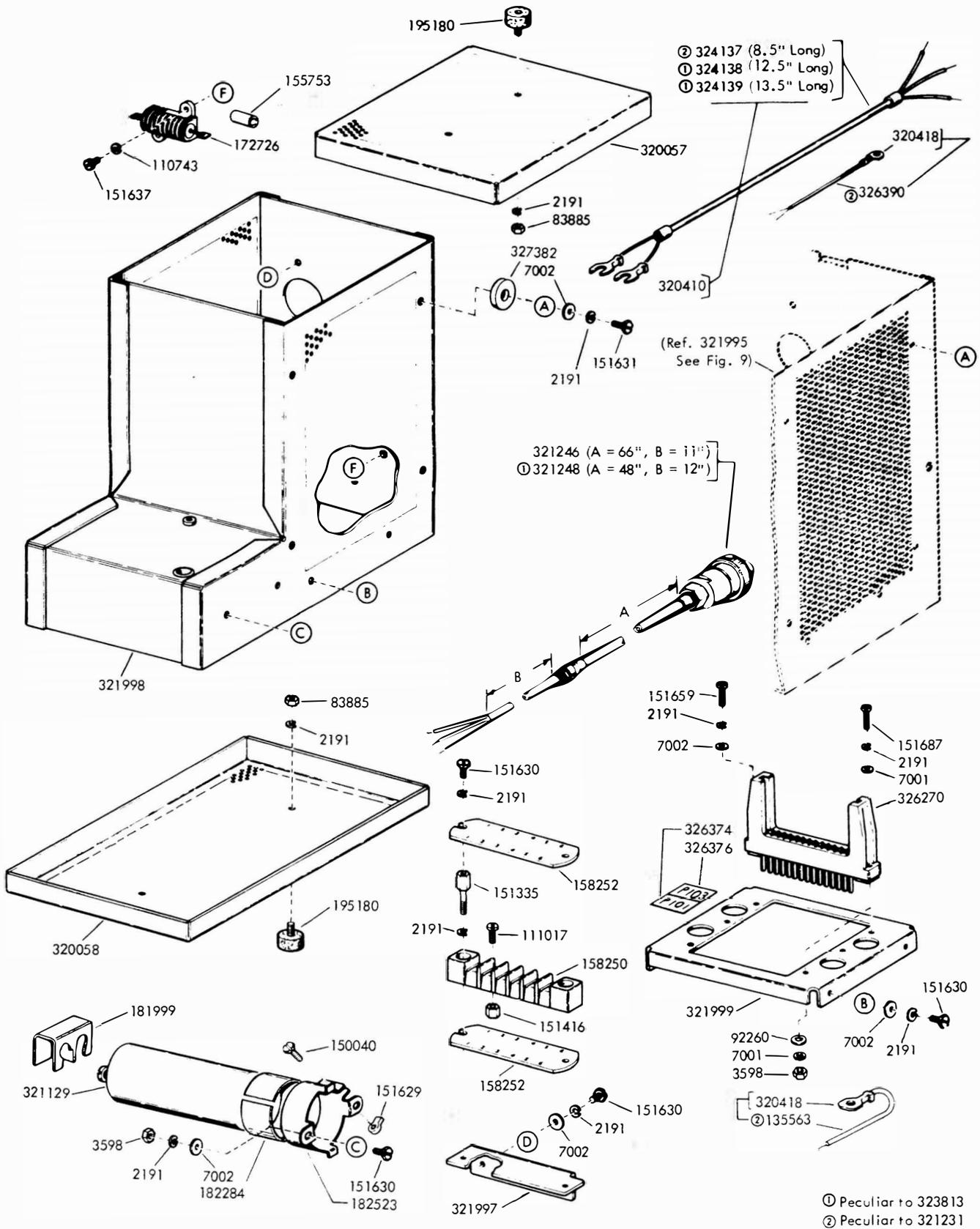


FIGURE 10. 321231 and 323813 ELECTRICAL SERVICE ASSEMBLIES (Continued)

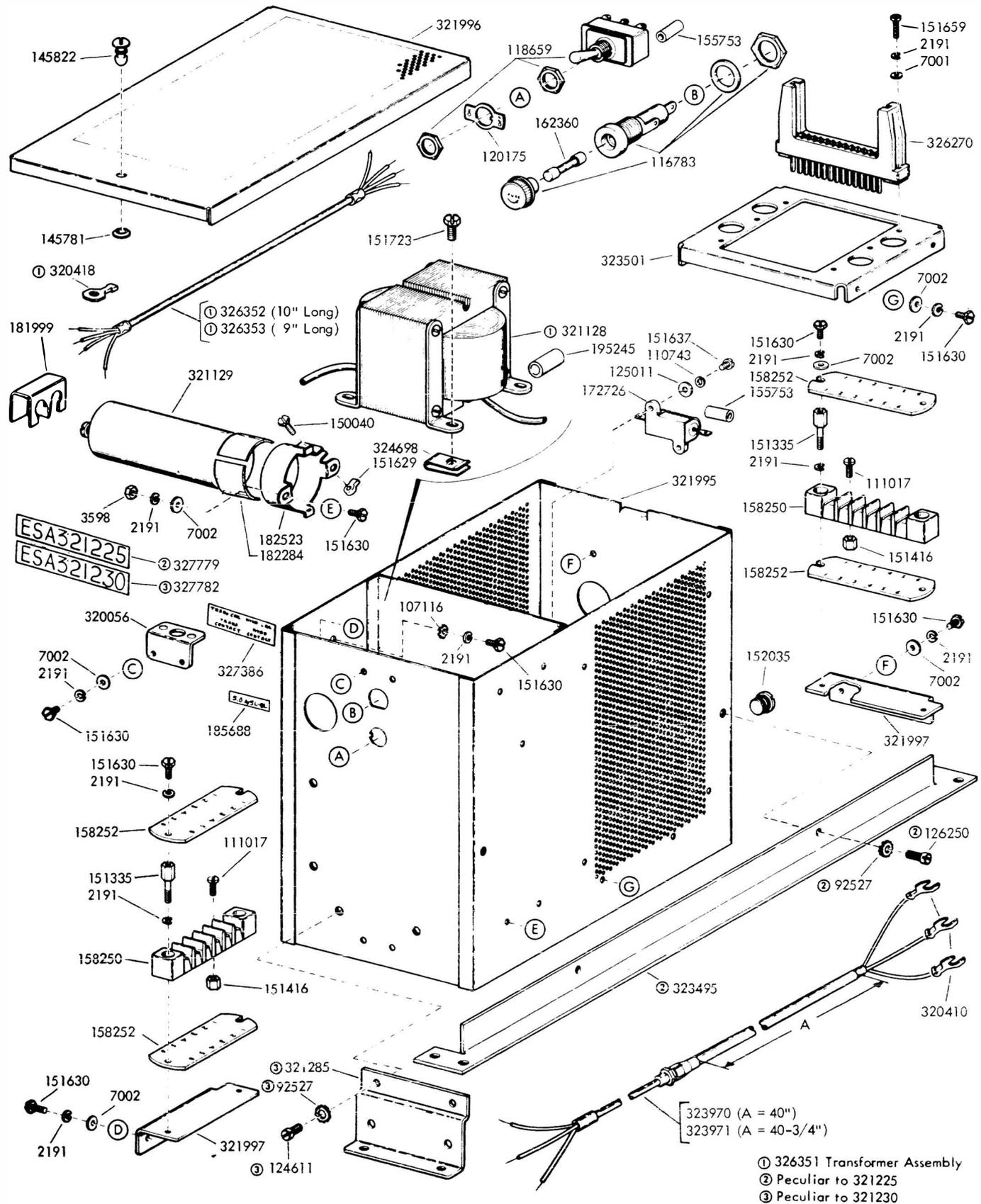


FIGURE 11. 321225 ELECTRICAL SERVICE ASSEMBLY - Used w/KSR and RO Sets and
321230 ELECTRICAL SERVICE ASSEMBLY - Used w/ROTR Set

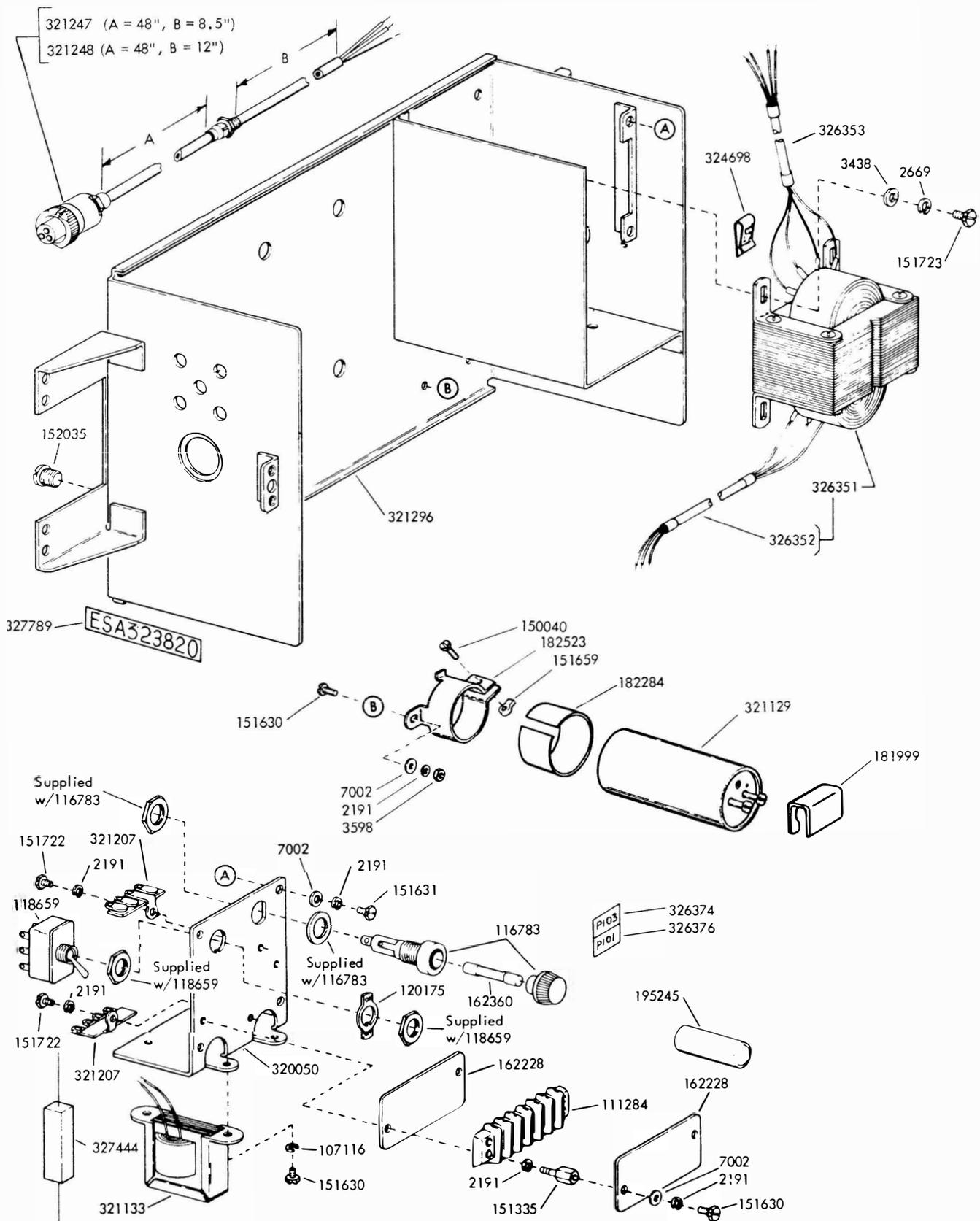
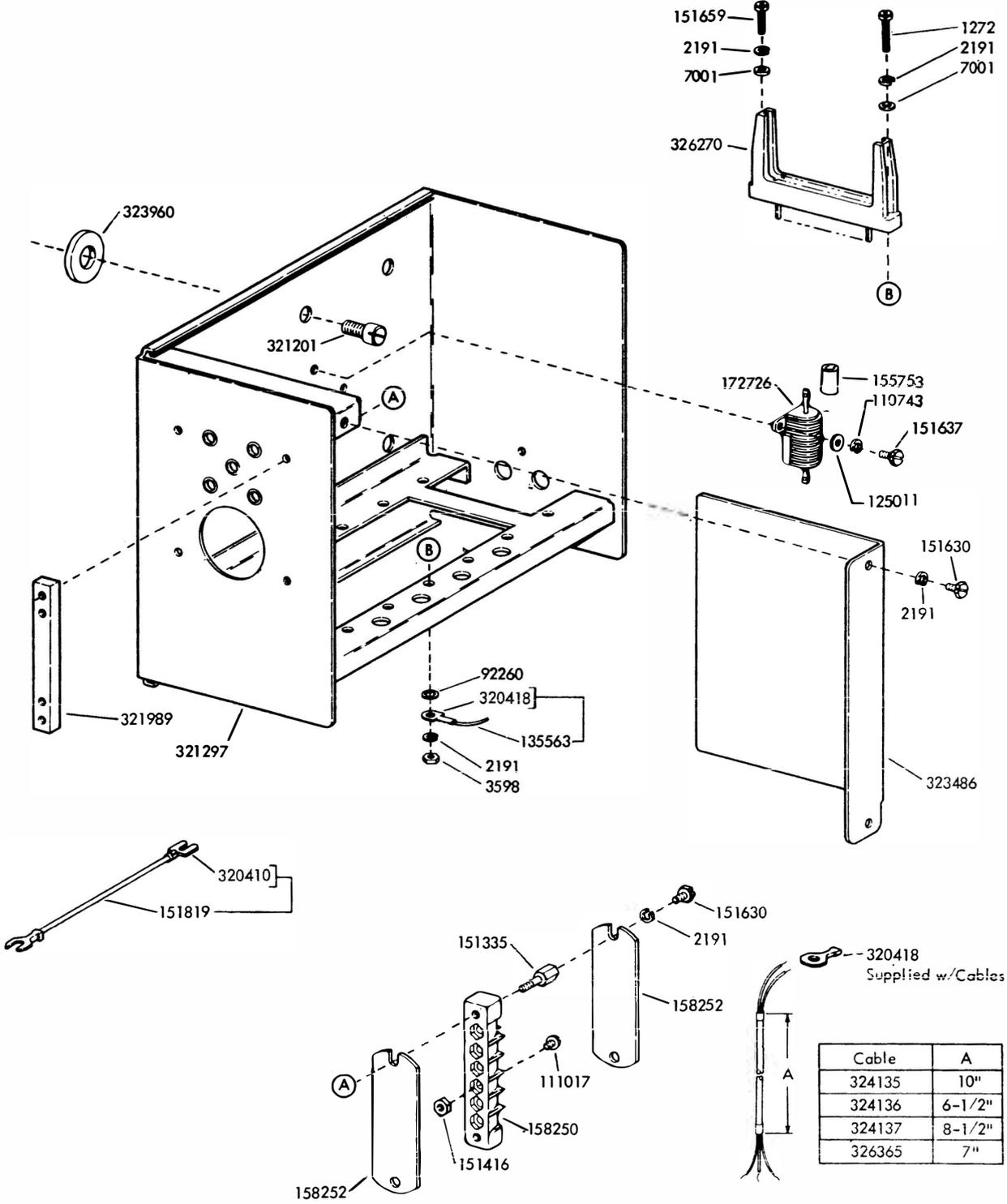


FIGURE 12. 323820 ELECTRICAL SERVICE ASSEMBLY - Used w/KSR and RO Sets



Cable	A
324135	10"
324136	6-1/2"
324137	8-1/2"
326365	7"

FIGURE 13. 323820 ELECTRICAL SERVICE ASSEMBLY (Continued)

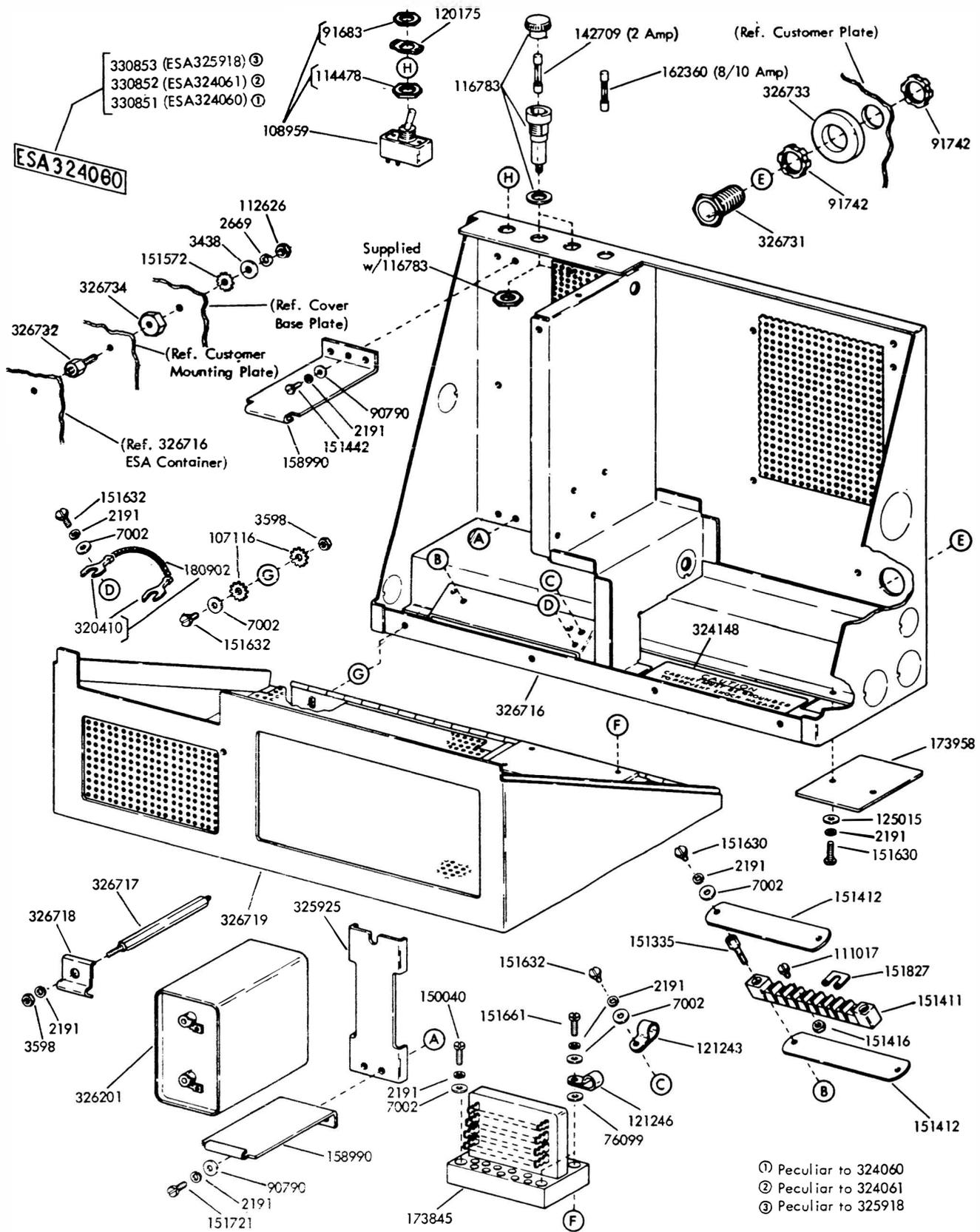


FIGURE 14. 324060, 324061 and 325918 ELECTRICAL SERVICE ASSEMBLIES - Used w/KSR and RO Sets

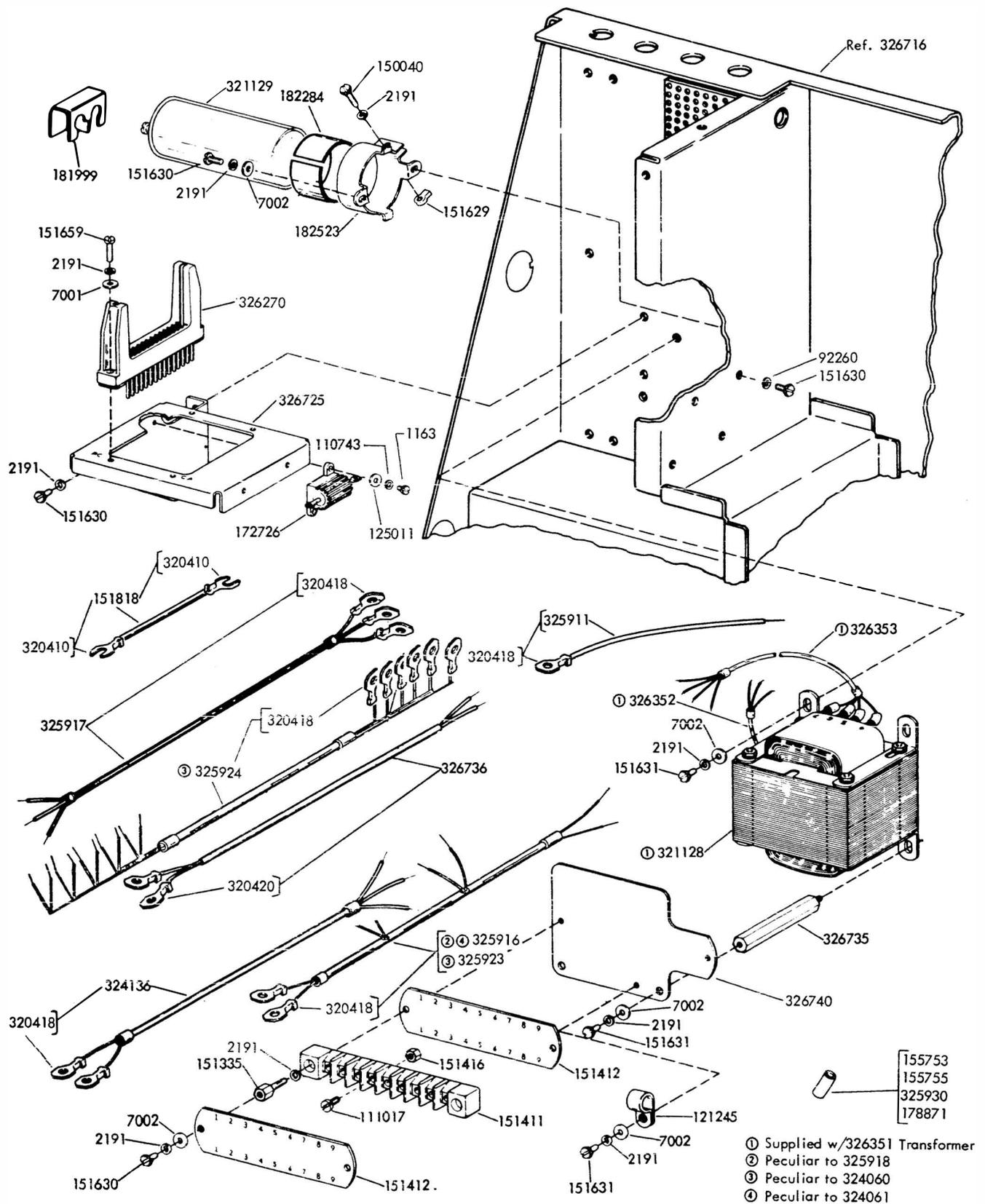


FIGURE 15. 324060, 324061 and 325918 ELECTRICAL SERVICE ASSEMBLIES (Continued)

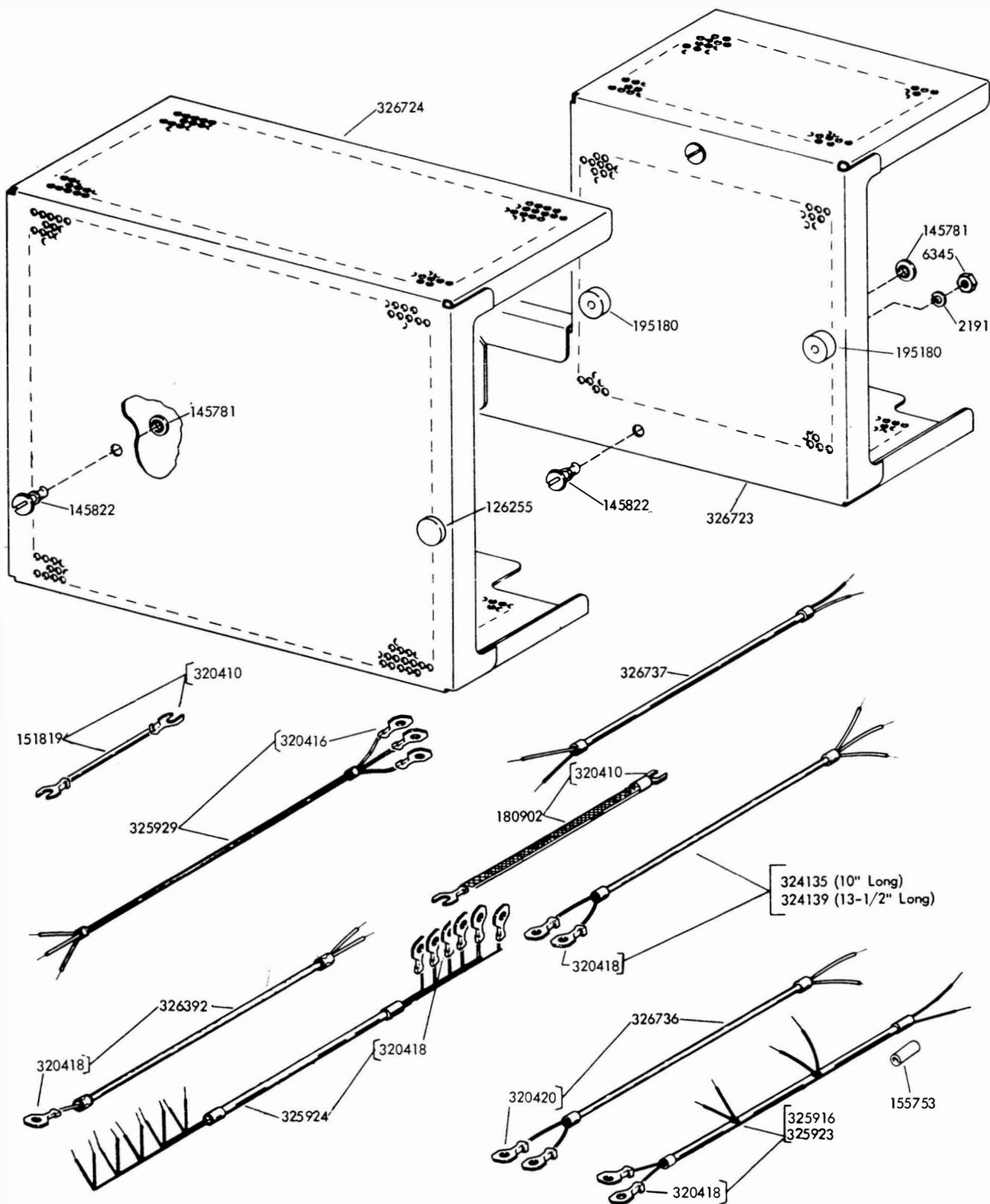


FIGURE 16. 325919 CONTAINER ASSEMBLY (Part of 324060, 324061 and 325918 Electrical Service Assemblies)

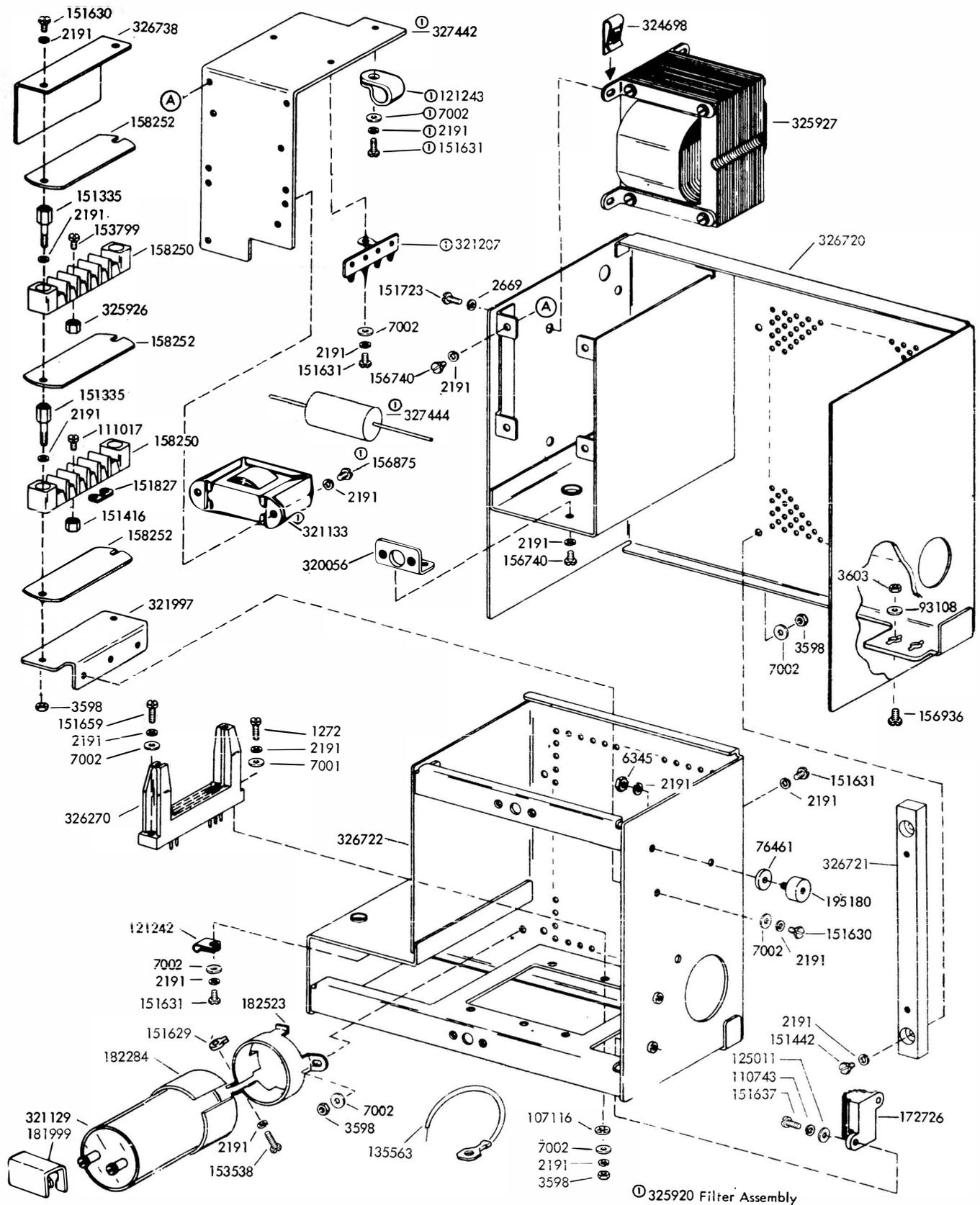


FIGURE 17. 325919 CONTAINER ASSEMBLY (Continued)

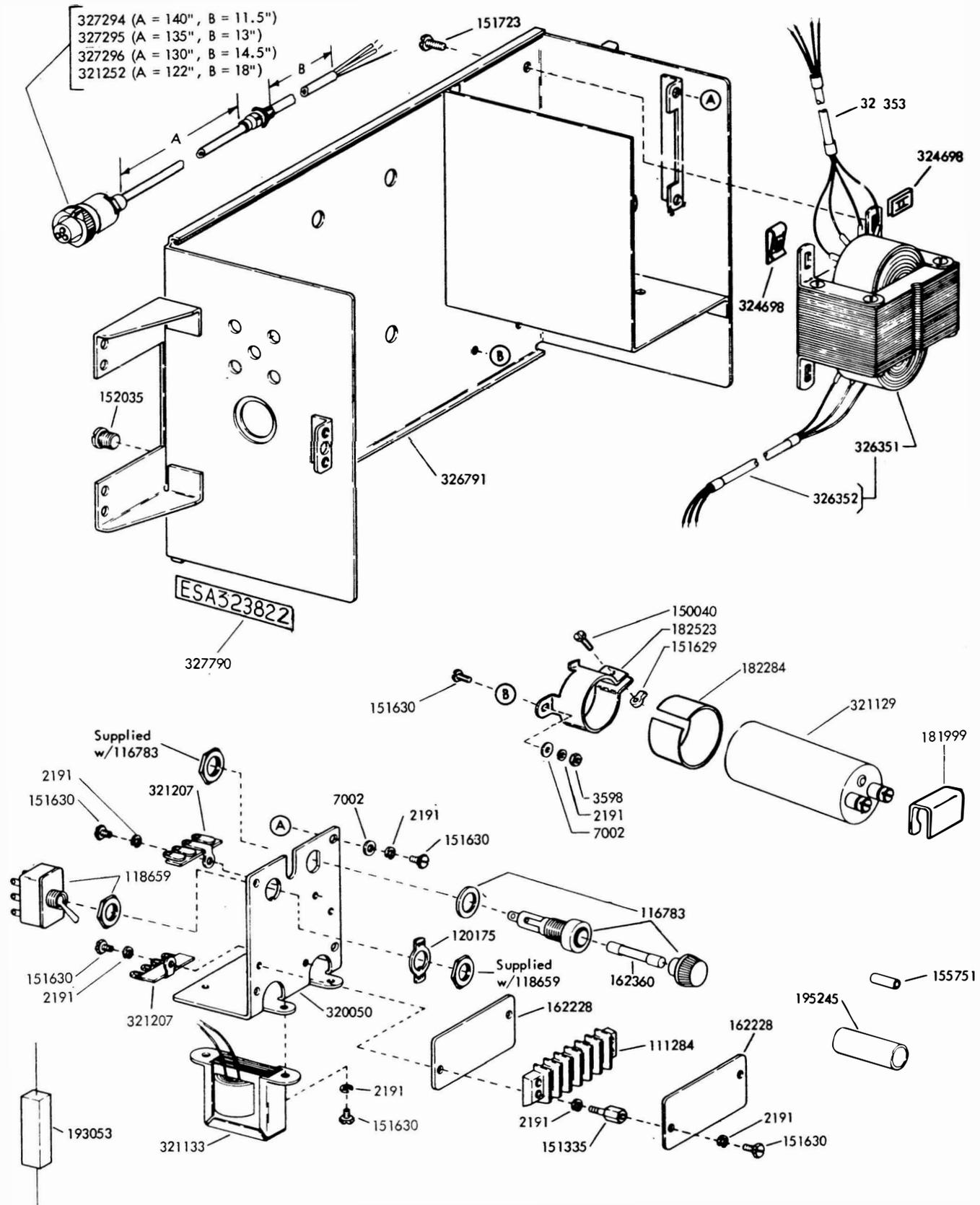


FIGURE 18. 323821 ELECTRICAL SERVICE ASSEMBLY - Multiple LP Set

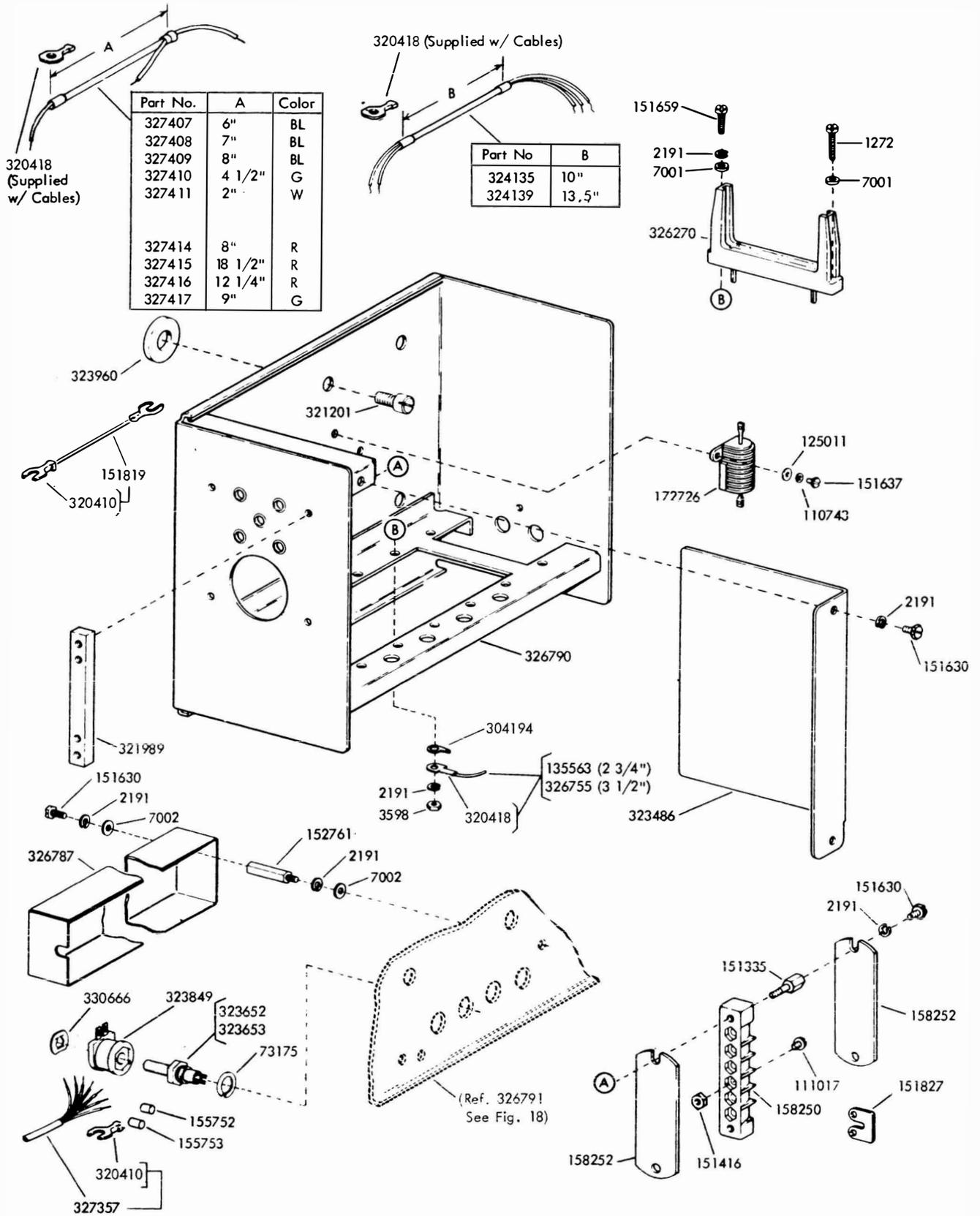


FIGURE 19. 323821 ELECTRICAL SERVICE ASSEMBLY (Continued)

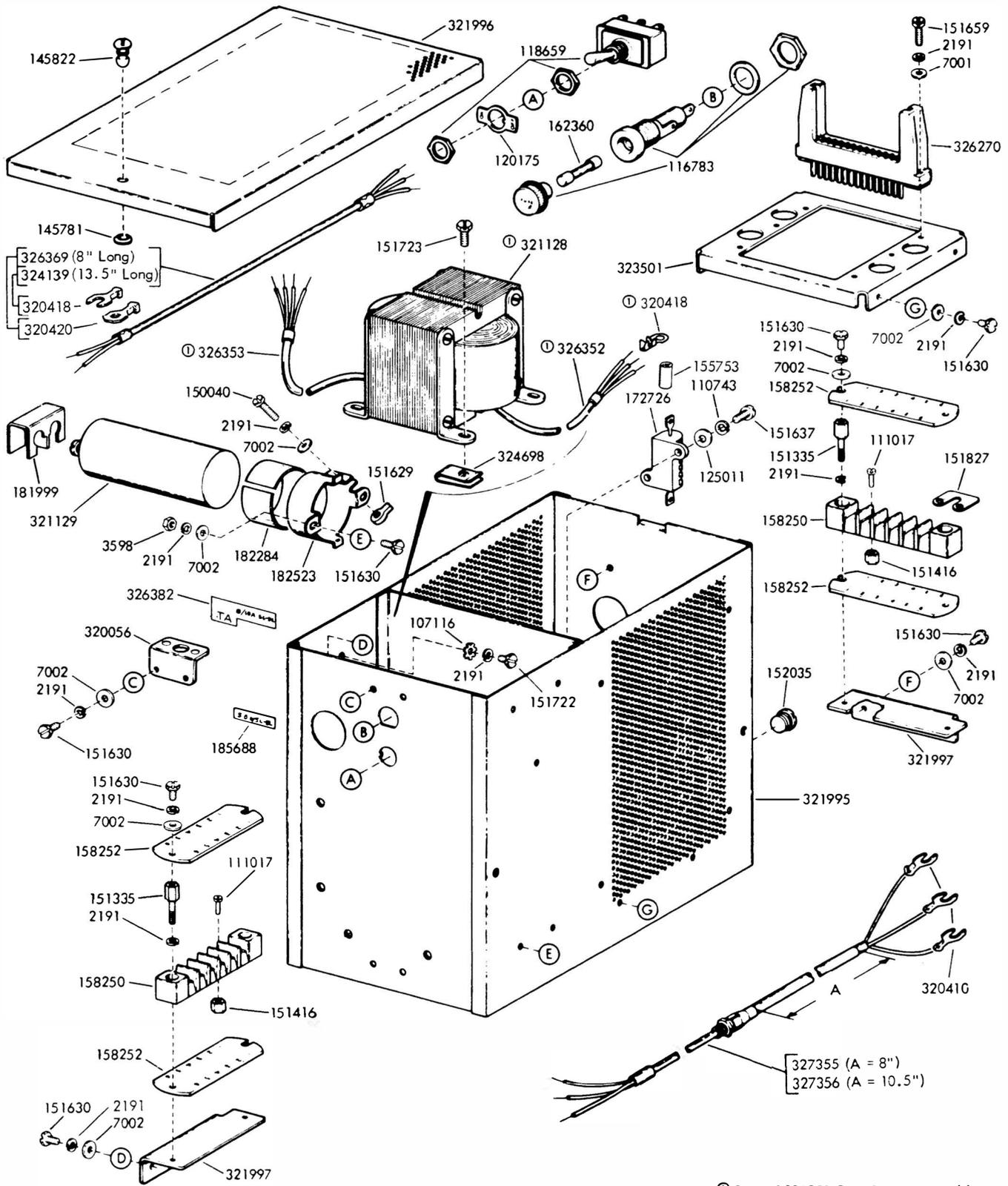
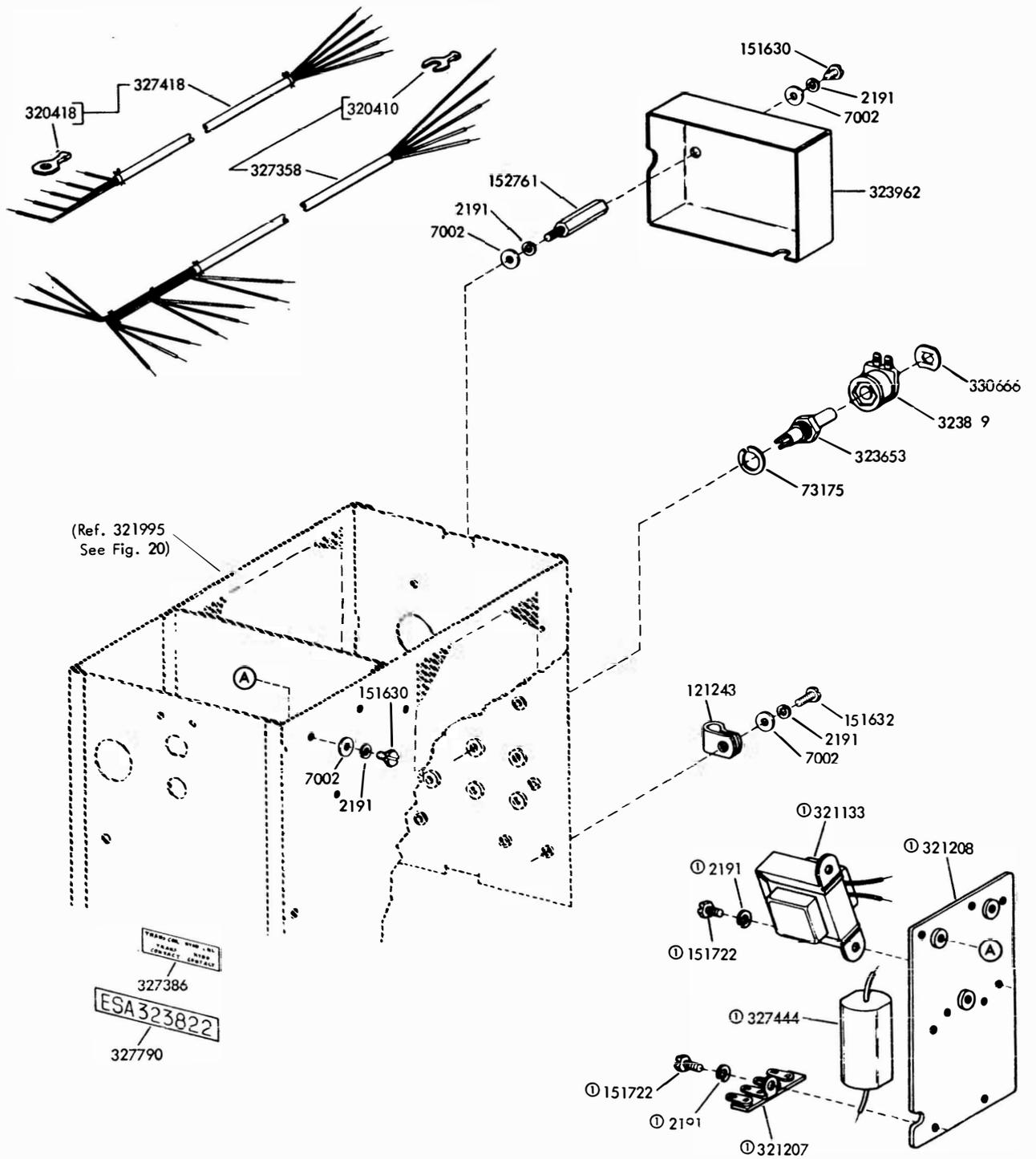


FIGURE 20. 323822 ELECTRICAL SERVICE ASSEMBLY - Multiple LP Set



Ⓞ Part of 321205 Filter Assembly

FIGURE 21. 323822 ELECTRICAL SERVICE ASSEMBLY (Continued)

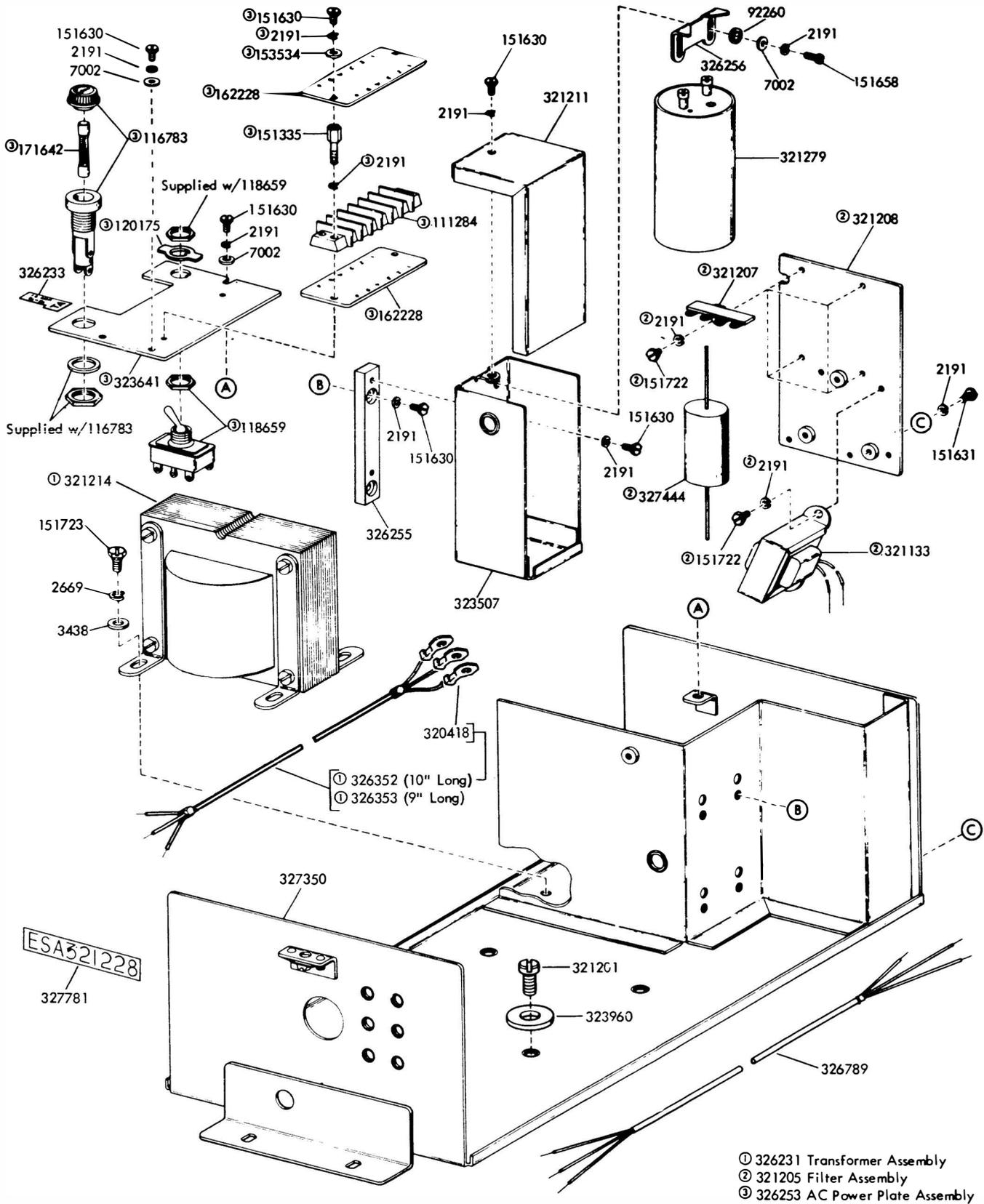


FIGURE 22. 321228 ELECTRICAL SERVICE ASSEMBLY - Multiple LP Set

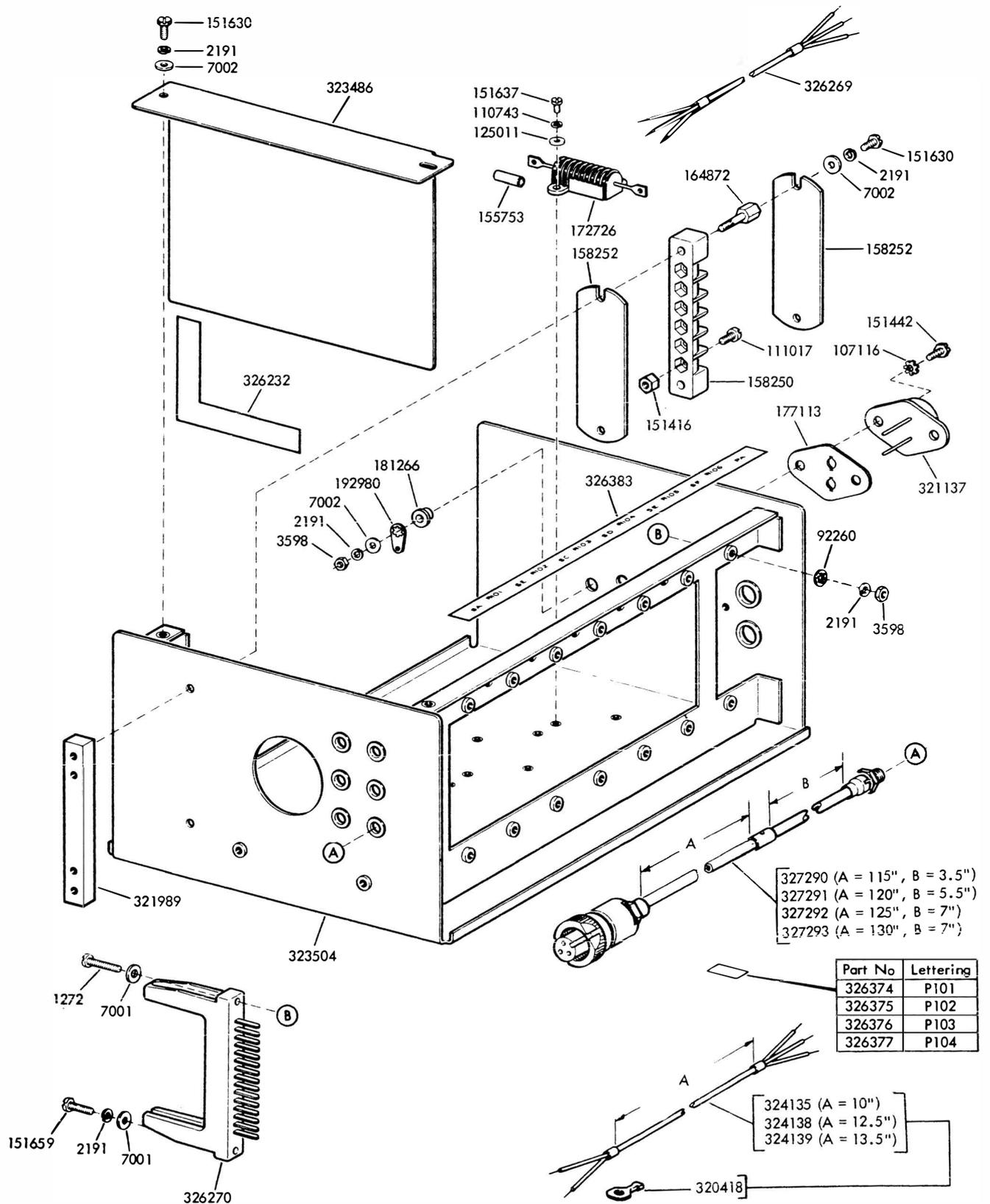


FIGURE 23. 321228 ELECTRICAL SERVICE ASSEMBLY (Continued)

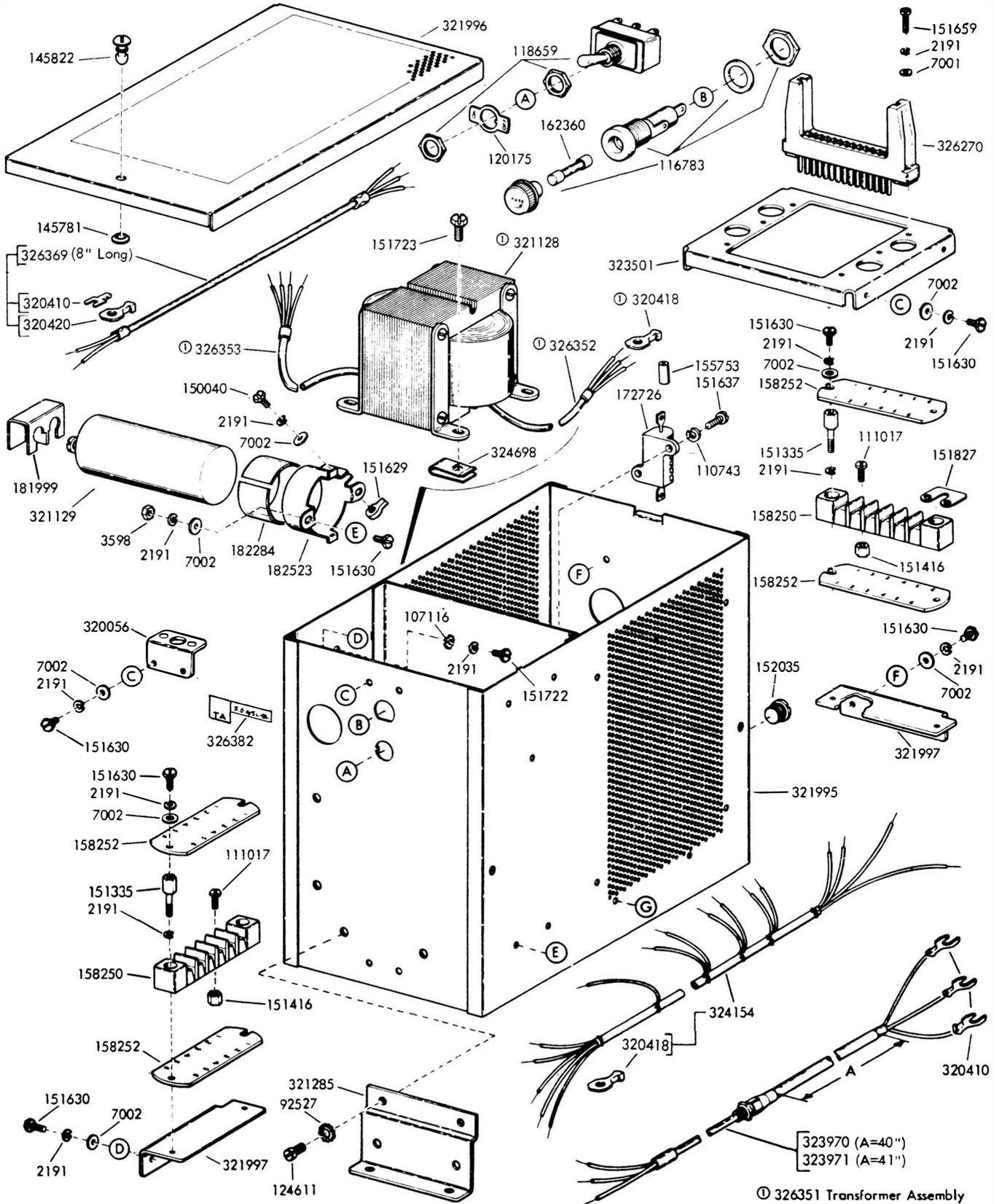


FIGURE 24. 326792 ELECTRICAL SERVICE ASSEMBLY - Used w/Mini-TD Set

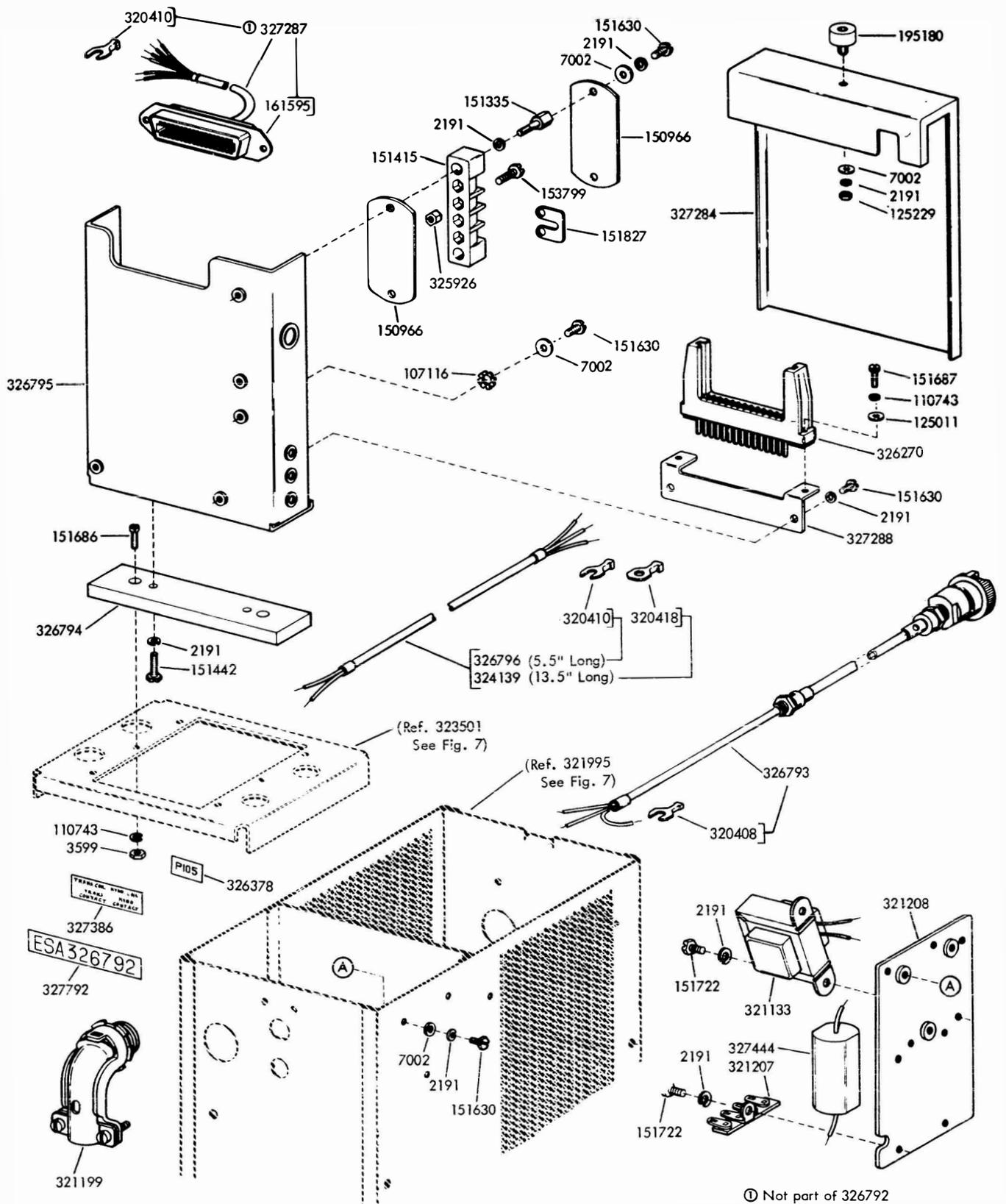


FIGURE 25. 326792 ELECTRICAL SERVICE ASSEMBLY (Continued)

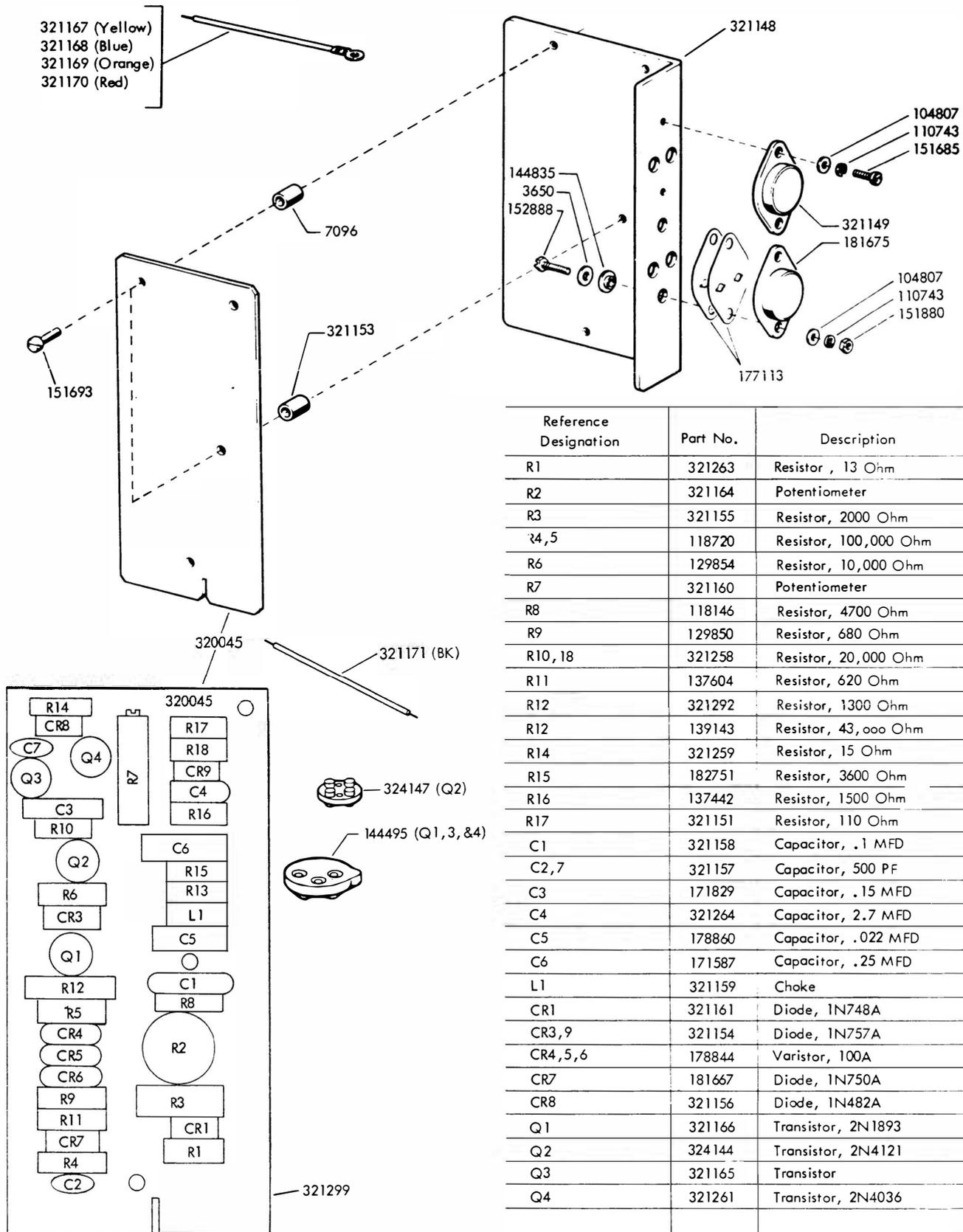
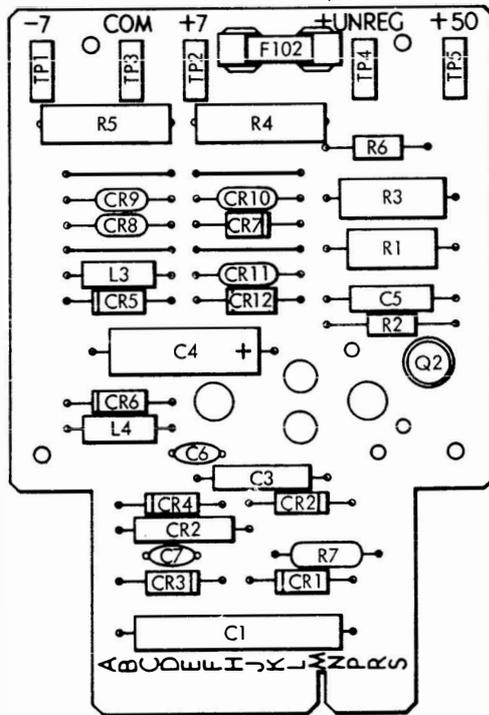
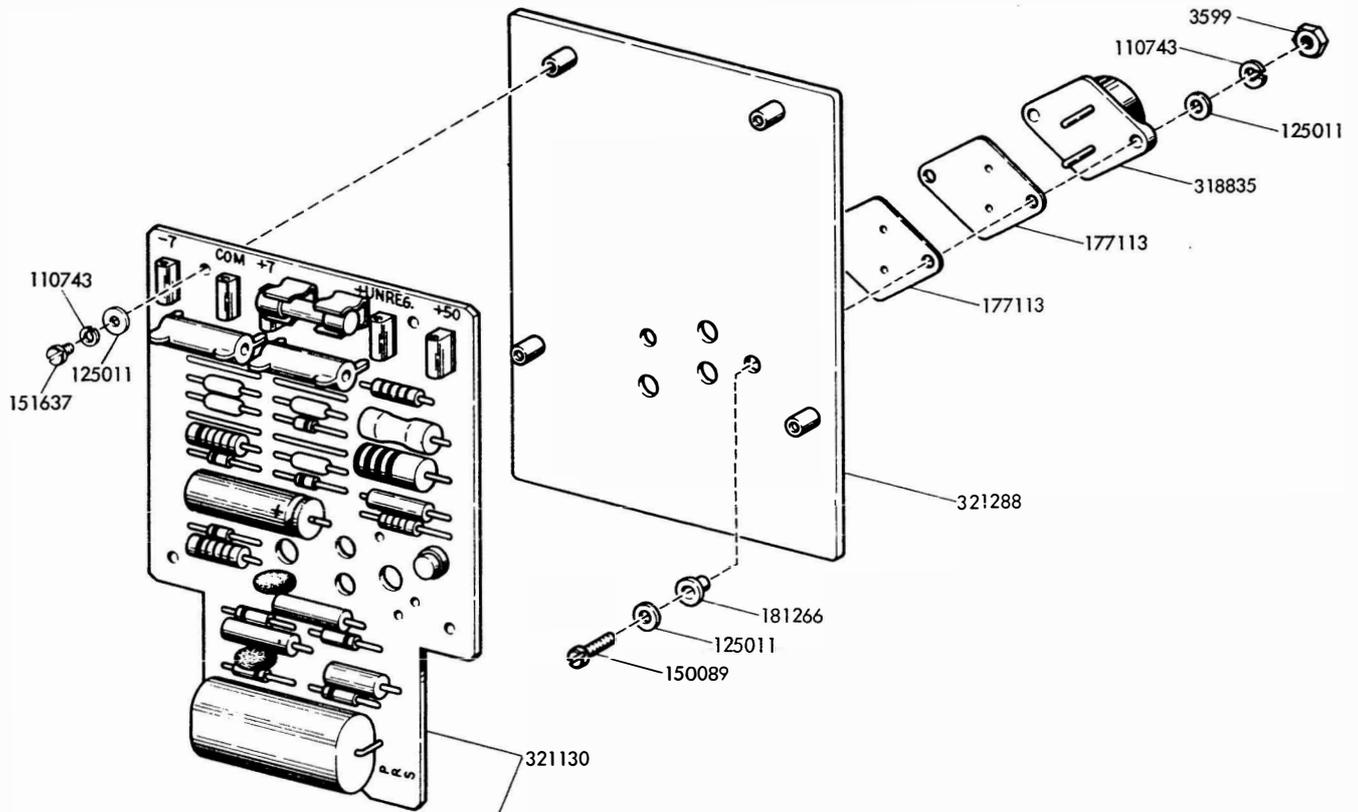
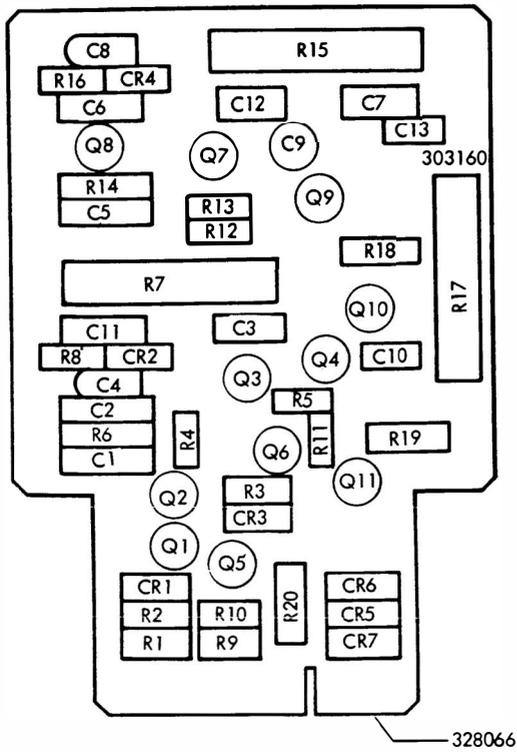


FIGURE 26. 321991 CIRCUIT MAGNET DRIVER ASSEMBLY
Used w/KSR and ASR Set



Reference Designation	Part No.	Description
C1	312284	Capacitor, 1.5 MFD
C2, 3	171585	Capacitor, .22 MFD
C4	171831	Capacitor, 10 MFD
C5	178860	Capacitor, .022 MFD
C6, 7	312385	Capacitor, .1 MFD
R1	198937	Resistor, 2700 Ohm
R2, 6	182180	Resistor, 200 Ohm
R3	171533	Resistor, 4 Ohm
R4, 5	311664	Resistor, 2500 Ohm
R7	305298	Resistor, 3300 Ohm
CR1,2,3,4	182520	Diode, 1N4383
CR5, 6	327794	Diode, Zener (7.2V)
CR7, 12	321286	Diode, 1N4749A
CR8,9,10,11	178844	Varistor, 100A
L3, 4	321159	Choke
Q2	321145	Transistor, 2N2270
TP1	320042	Jack, Test (Slate)
TP2	320041	Jack, Test (Green)
TP3	320039	Jack, Test (Black)
TP4	320040	Jack, Test (Orange)
TP5	320038	Jack, Test (Red)
F102	131807	Fuse, .5 Amp

FIGURE 27. 321290 CIRCUIT CARD- Used w/RO, KSR and ASR Set



Reference Designation	Part No.	Description
R1, 4, 9 & 12	323148	Resistor, 18,000 Ohm
R2 & 10	330643	Resistor, 56,000 Ohm
R3 & 11	323147	Resistor, 36,000 Ohm
R5 & 13	315955	Resistor, 2200 Ohm
R6 & 14	178863	Resistor, 3300 Ohm
R7, 15 & 17	193229	Resistor, 300 Ohm
R8 & 16	315957	Resistor, 3300 Ohm
R18	118180	Resistor, 10,000 Ohm
R19	120424	Resistor, 4300 Ohm
R20	327793	Resistor, 18 Ohm
C1, 2, 3, 5, 6, 7, 11 & 12	330593	Capacitor, .02 MFD
C4 & 8	321264	Capacitor, 2.7 MFD
C9, 10 & 13	321157	Capacitor, 500 PF
CR1, 3, 5, & 6	321156	Diode, 1N482A
CR2 & 4	321154	Diode, 1N457A
CR7	321161	Diode, 1N748A
Q1, 2, 5 & 6	315930	Transistor, 2N3568
Q3, 7 & 10	302865	Transistor, 2N4354
Q4 & 8	321261	Transistor, 2N4036

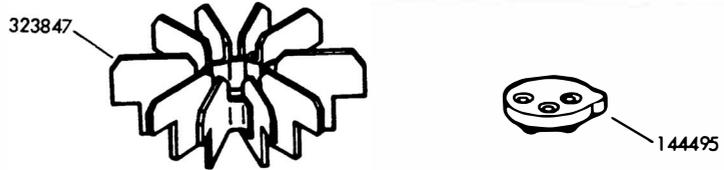
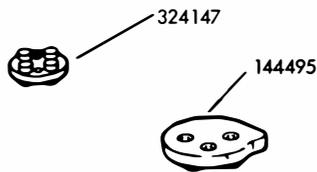
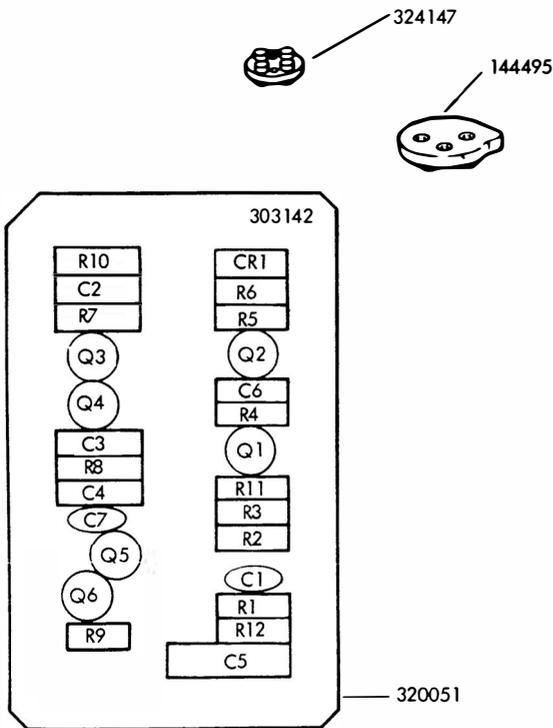
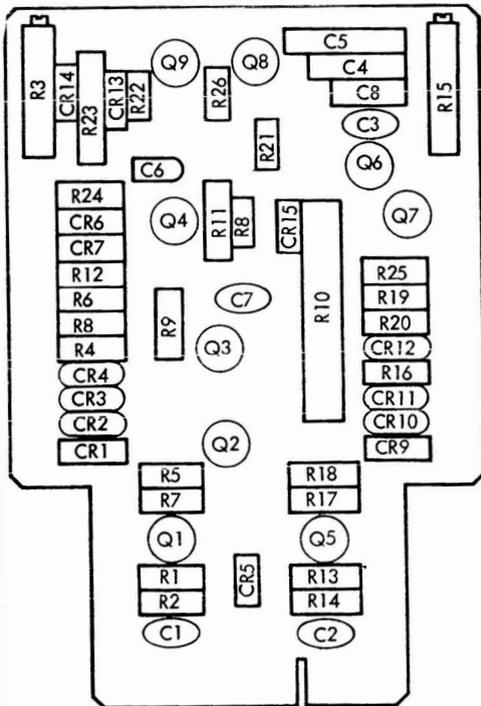
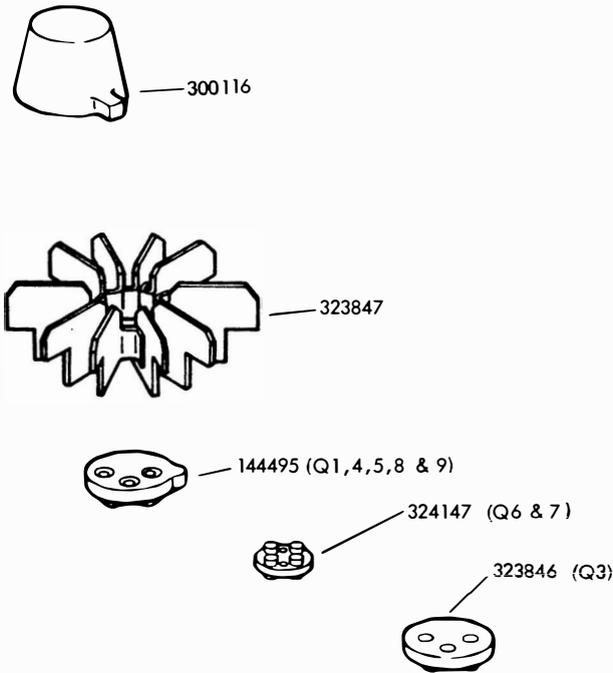


FIGURE 28. 303160 CIRCUIT CARD



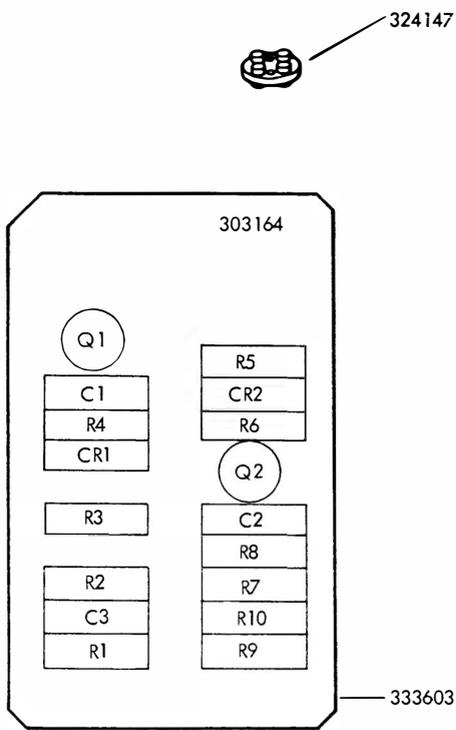
Reference Designation	Part No.	Description
R1&3	118720	Resistor, 100,000 Ohm
R2	118178	Resistor, 220,000 Ohm
R4&8	129854	Resistor, 10,000 Ohm
R5&6	321204	Resistor, 13,000 Ohm
R7&10	118147	Resistor, 6800 Ohm
R9	137438	Resistor, 100 Ohm
R11&12	118146	Resistor, 4700 Ohm
CR1	181619	Diode, 1N482
C1&7	321157	Capacitor, .500 PF
C2	320048	Capacitor, .5 MFD
C3&4	320049	Capacitor, .15 MFD
C5	320047	Capacitor, 2 MFD
C6	181618	Capacitor, .01 MFD
Q1, 4 & 6	315930	Transistor, 2N3568
Q2	324144	Transistor, 2N4121
Q3 & 5	315931	Transistor, 2N3638

FIGURE 29. 303142 CIRCUIT CARD



Reference Designation	Part No.	Description
C1, C2, C3, C7	321157	Capacitor, 500 PF
C4	171829	Capacitor, .15 MFD
C5	326776	Capacitor, .47 MFD
C6	321260	Capacitor, 1 MFD
C8	178860	Capacitor, .022 MFD
R1, R2, R13, R14	118720	Resistor, 100,000 Ohm
R3, R15	323964	Potentiometer, 500,000 Ohm
R4, R16	129854	Resistor, 10,000 Ohm
R5, R17, R22	118177	Resistor, 22,000 Ohm
R6, R19	137604	Resistor, 620 Ohm
R7, R18	118146	Resistor, 4,700 Ohm
R8, R20	129850	Resistor, 680 Ohm
R9	309868	Resistor, 1,300 Ohm
R10	323841	Resistor, 300 Ohm
R11	323842	Resistor, 21 Ohm
R12	178864	Resistor, 3,900 Ohm
R21	321975	Resistor, 33 Ohm
R23	323843	Resistor, 590 Ohm
R24	137442	Resistor, 1,500 Ohm
R25	118154	Resistor, 47,000 Ohm
R26	120424	Resistor, 4,300 Ohm
CR1	321154	Diode, 1N457A
CR2, CR3, CR4,		
CR10, CR11, CR12	178844	Varistor, 100A
CR5	181667	Diode, 1N750A
CR6, CR7, CR13,		
CR15	321156	Diode, 1N482A
CR8	321161	Diode, 1N748A
CR9, CR14	321154	Diode, 1N457A
Q1, Q5	321166	Transistor, 2N1893
Q2	323844	Transistor, 2N3053
Q3	321261	Transistor, 2N4036
Q4	323845	Transistor, 40319
Q6, Q7	324144	Transistor, 2N4121
Q8	321165	Transistor, 2N3638A
Q9	321261	Transistor, 2N4036
	324147	Pad, Transistor Mounting
	144495	Pad, Transistor Mounting
	323846	Pad, Transistor Mounting
	323847	Sink, Heat
	300116	Cover, Insulating
	323835	Card, Circuit

FIGURE 30. 323810 CIRCUIT CARD



Reference Designation	Part No.	Description
R1	330644	Resistor, 390,000 Ohm
R2	118156	Resistor, 56,000 Ohm
R3	330642	Resistor, 1,300,000 Ohm
R4	118166	Resistor, 560,000 Ohm
R5,6,7	118177	Resistor, 22,000 Ohm
R8	137438	Resistor, 100 Ohm
R9	165072	Resistor, 9100 Ohm
R10	137441	Resistor, 1200 Ohm
C1	315976	Capacitor, 470 PF
C2	310926	Capacitor, .15 MFD
C3	312385	Capacitor, .1 MFD
CR1,2	197464	Diode, 1N914
Q1,2	323934	Transistor, 2N3565

FIGURE 31. 303164 CIRCUIT CARD

NUMERICAL INDEX

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
1163	Screw, 4-40 x 3/16 Fil 17	125229	Nut, 6-32 Hex 27	151819	Jumper, 3" Black 8,10,15,18,21
1272	Screw, 6-40 x 11/16 Fil 8,15,19,21,25	126250	Screw, 8-32 x 1/4 Fil 5,9,13	151827	Strap, Terminal 16,19,21,22,26,27
2191	Washer, Lock 5 to 27	126255	Bumper, Rubber 3,4,18	151880	Nut, 4-40 Hex 28
2669	Washer, Lock 7,14,16,19,24	129850	Resistor, 680 Ohm 28,31	152035	Plug 6,7,10,11,13,14,20,22,26
3438	Washer, Flat 7,14,16,24	129854	Resistor, 10,000 Ohm 28,30,31	152761	Stud 6,8,10,21,23
3598	Nut, 6-40 Hex 5,7,8,10,12 to 16,19 to 22, 25,26	131807	Fuse, .5 Amp 29	152888	Screw, 4-40 x 7/16 Hex 28
3599	Nut, 4-40 Hex 27,29	135563	Jumper, 2-3/4" Green 8,12,15,19,21	153534	Washer, Flat 24
3603	Nut, 1/4-32 Hex 19	137438	Resistor, 100 Ohm 30,32	153538	Screw, 6-40 x 7/16 Hex 19
3650	Washer, Flat 28	137441	Resistor, 1200 Ohm 32	153799	Screw, 4-40 x 21/64 Hex 19,27
6345	Nut, 6-32 Hex 18,19	137442	Resistor, 1500 Ohm 28,31	155751	Sleeve, 1/8 ID x 1" Lg insulating 7,20
7001	Washer, Flat 5,8,9,12,13,15,17,19,21,22,25,26	137604	Resistor, 620 Ohm 28,31	155752	Sleeve, 5/64 ID x 1/2" Lg insulating 10,21
7002	Washer, Flat 5 to 14,16,17,19 to 27	139143	Resistor, 43,000 Ohm 28	155753	Sleeve, 1/8 ID x 1/2" Lg insulating 10,21
7096	Bushing, Insulating 28	142709	Fuse, 2 Amp 16	155755	Sleeve, 11/64 ID x 5/8" Lg Insulating 17
55219	Screw, 8-32 x 3/8 Fil 11	144495	Pad, Transistor Mounting 28,30,31	156740	Screw, 6-40 x 7/32 Hex 11
73175	Washer, Lock 6,8,10,21,23	144835	Bushing, Spring 28	156777	Jumper, 2" Black 10
76099	Washer, Flat 16	145781	Grommet 3,4,5,10,11,13,18,22,26	156875	Screw, 6-40 x 5/32 Fil 19
76461	Washer, Flat 19	145822	Stud, Oval Head 3,4,5,10,11,13,18,22,26	156936	Screw, 1/4-32 x 5/16 Hex 19
83885	Nut, 6-32 Hex 12	150040	Screw, 6-40 x 5/8 Fil 7,10,12,13,14,16,17,20,22,26	157230	Jumper, 6" Black 8
90790	Washer, Flat 16	150089	Screw, 4-40 x 1/2 Fil 29	157231	Jumper, 8" Black 8
91683	Nut, 15/32-32 Hex 16	150966	Insulator, Terminal Block 27	158250	Block, Terminal 5,8,9,11,12,13,15,19,21,22,25,26
91742	Nut, Lock 16	151335	Stud 5,7,9,11 to 17,19 to 22,24,26,27	158252	Insulator, Terminal Block 5,8,9,11,12,13,15,19,21,22,25,26
92260	Washer, Lock 8,12,15,17,24,25	151411	Block, Terminal 16,17	158990	Bracket, Mounting 16
92527	Washer, Lock 5,9,11,13,26	151412	Insulator, Terminal Block 16,17	161595	Connector, 36 Pt Receptacle 27
93108	Washer, Lock 19	151415	Block, Terminal 27	162228	Insulator, Terminal Block 7,14,20,24
104807	Washer, Flat 28	151416	Nut, 6-40 Hex 5,8,9,11,12,13,15,16,17,19,21,22,25,26	162360	Fuse, SL-BL .8 Amp 5,7,9,11,13,14,16,20,22,26
107116	Washer, Lock 5,7,9,11,13,14,16,19,22,25,26,27	151442	Screw, 6-40 x 1/2 Hex 16,19,25,27	164872	Stud 8,25
108959	Switch, DP-ST Toggle 16	151572	Washer, Lock 16	165072	Resistor, 9,100 Ohm 32
110743	Washer, Lock 6,8,10,12,13,15,17,19,21,22,25 to 29	151629	Nut, 6-40 Lug 7,10,12,13,17,19,20,22,26	171533	Resistor, 4 Ohm 29
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