

RADIO FREQUENCY INTERFERENCE (RFI) SUPPRESSION  
FEATURES FOR LOW LEVEL SETS  
28 ASR/KSR CABINET

PARTS

FIGURE	CONTENTS	PAGE	FIGURE	CONTENTS	PAGE
1	Modification Kits To Equip Low Level Automatic Send-Receive Sets with Message Numbering Features	2	14	173706 and 173707 Modification Kits to add Power Factor Correction to Cabinet	15
2	Numbering Module Enclosure Mounting Components	3	15	Cable Components for Automatic Send-Receive Cabinet	16
3	Numbering Module Enclosure Mounting Components (Continued)	4	16	Mounting Rails for Automatic Send-Receive Cabinet	17
4	336011** Enclosure and Power Supply Assembly	5	17	Table Mounted Cabinet and Pad	17
5	Numbering Module Chassis	6	18	324677 Modification Kit To add Fan to Cabinet	18
6	330650 Numbering Module Without Circuit Cards	7	19	Front Panel Fan Mounting	19
7	328017 Front Plate Assembly (Part of 330650 See Figure 6)	8	20	Cable Components - Keyboard Send-Receive Cabinet	19
8	333605 Power Supply Assembly (Part of 336011** See Figure 4)	9	21	Compact Printer Cover Components	20
9	333605 Power Supply Assembly (Continued)	10	22	Components for Receive-Only and Send-Receive Sets	21
10	333621 A, C, Power Plate Assembly (Part of 333605 See Figure 8 & 9)	11	23	Components for Transmitter-Distributor Base	22
11	333610 Plate Assembly (Part of 333605 See Figure 8 & 9)	12	24	322417 Circuit Card w/Cable	23
12	324149 Modification Kit To add junction Boxes to Cabinet	13	25	303160 Circuit Card	24
13	324149 Modification Kit To add junction Boxes to Cabinet (Continued)	14	26	303164 Circuit Card	24
			27	322080 Circuit Card	25
			28	303811 Circuit Card	25
			29	322023 Circuit Card	26
			30	322022 Circuit Card	26
			31	322024 Circuit Card	27
			32	322025 Circuit Card	27
			33	333620 Circuit Card	28
				Numerical Index	29

PAINT FINISH COLOR CODE CHART (for parts and assemblies requiring a paint finish)									
Color	Finish Suffixes				Color	Finish Suffixes			
	Wrinkle Finish	Smooth Finish	Textured Vinyl	Smooth Vinyl		Wrinkle Finish	Smooth Finish	Textured Vinyl	Smooth Vinyl
Beige		EL		HC	Gray, Federal		BV	GG	
Beige, Light		ER			Gray, Green	AB	BK	GA	
Beige, Rose					Gray, Light		EJ		HB
Black	AA				Gray, Covert				HE
Black, High Gloss		BA			Gray, Olive		EW	GE	HF
Black, Semi Gloss		BB			Gray, Maritime Deck	AJ			
Blue, Aqua		EK			Gray, Oxford		BJ		
Blue, Brussels Light		EC			Green, Gray	AB	EP		
Blue, Medium		ES			Green, Moss		BK	GA	HD
Brown, Dark	AD				Ivory		EN		
Brown, Light	AC				Pink, Rose		EM		
Fawn				HG	Turquoise		EU		
Gray, Beige			GC		White		EV		
Gray, Charcoal	AL	BZ	GF	HA	Yellow, Pastel		EH		
Gray, Dark			GB				EG		
Gray, Navy Light		BR							

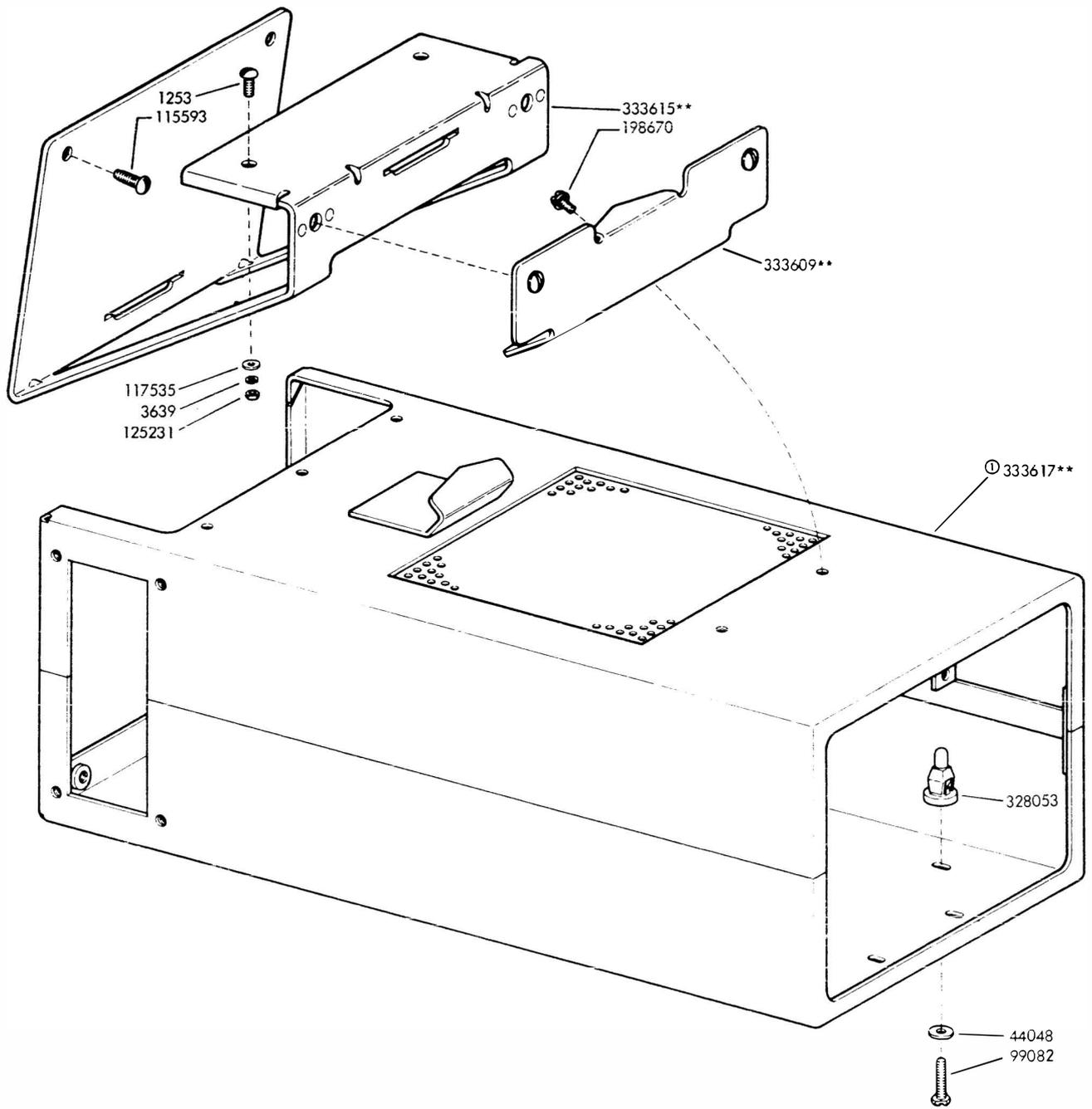
The double asterisk (\*\*) denotes a painted part. Suffix to be applied following the part number.

	With Line Assurance					Without Line Assurance				
	334541**	334542**	334543**	334544**	334545**	336014**	336015**	336016**	336017**	336018**
Used with a 7.00 Unit Code Set having a band rating of	75	50	45.5			75	50	45.5		
Used with a 7.42 Unit Code Set having a W.P.M. rating of		67.5	60	100	75		67.5	60	100	75
322080 Line Assurance Circuit Card, Shown on figure 27	●	●	●	●	●					
333605 Power Supply Assembly, Shown on figures 8 & 9	●	●	●	●	●					
Crystals, Shown on figure 6	328003	328006	328007	328004	328005	328003	328006	328007	328004	328005
161592 Plate w/Studs Shown in Transmitter Distributor Section.		●	●	●	●		●	●	●	●
303160 Duel Circuit Magnet Drive-Circuit Card, Shown on figure 25	●	●	●	●	●	●	●	●	●	●
303164 Clock Amplifier-Circuit Card, Shown on figure 26	●	●	●	●	●	●	●	●	●	●
303811 Contact Latch and Filter-Circuit Card, Shown on figure 28	●	●	●	●	●	●	●	●	●	●
324681 Cable Assembly, Shown in transmitter Distributor Section		●	●	●	●		●	●	●	●
328010 Numbering Module w/Cards, Shown on figure 8	●	●	●	●	●	●	●	●	●	●
333610** Numbering Module Enclosure, Shown on figures 2,3 & 4	●	●	●	●	●	●	●	●	●	●
333633 Cable Assembly, Shown on figure 23	●	●	●	●	●	●	●	●	●	●
333634 Bracket Shown on figure 23	●	●	●	●	●	●	●	●	●	●
336010 Cap, Protective Shown on figure 22	●	●	●	●	●	●	●	●	●	●

\*\*Refer to page 1 for finish suffix

●Indicates - Used on

FIGURE 1. MODIFICATION KITS TO EQUIP LOW LEVEL AUTOMATIC SEND-RECEIVE SETS WITH MESSAGE NUMBERING FEATURES



\*\*Refer to page 1 for finish suffix

① Not part of 333601\*\*, Supplied with 336011\*\* See Figure 4

FIGURE 2. 333601\*\* NUMBERING MODULE ENCLOSURE

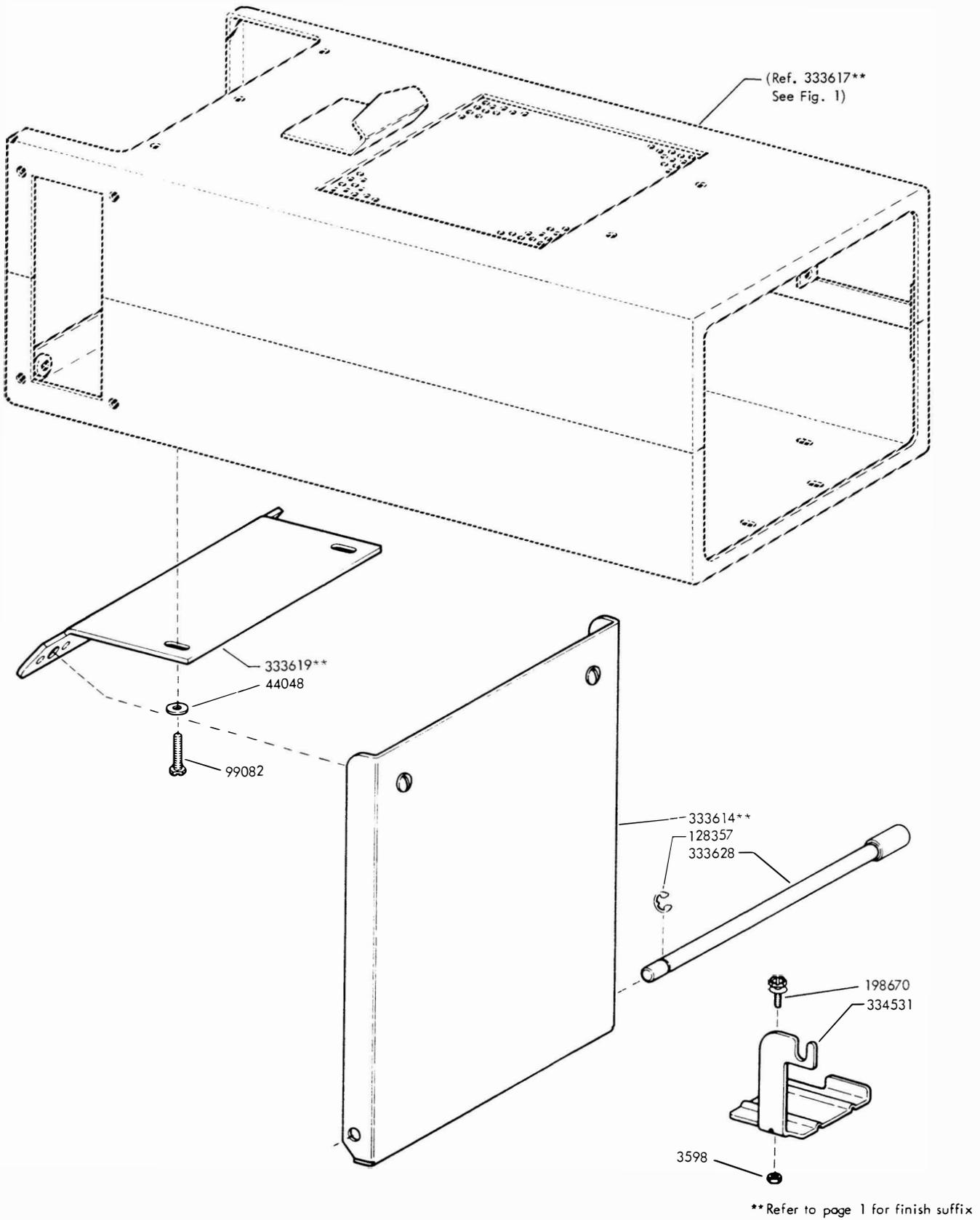
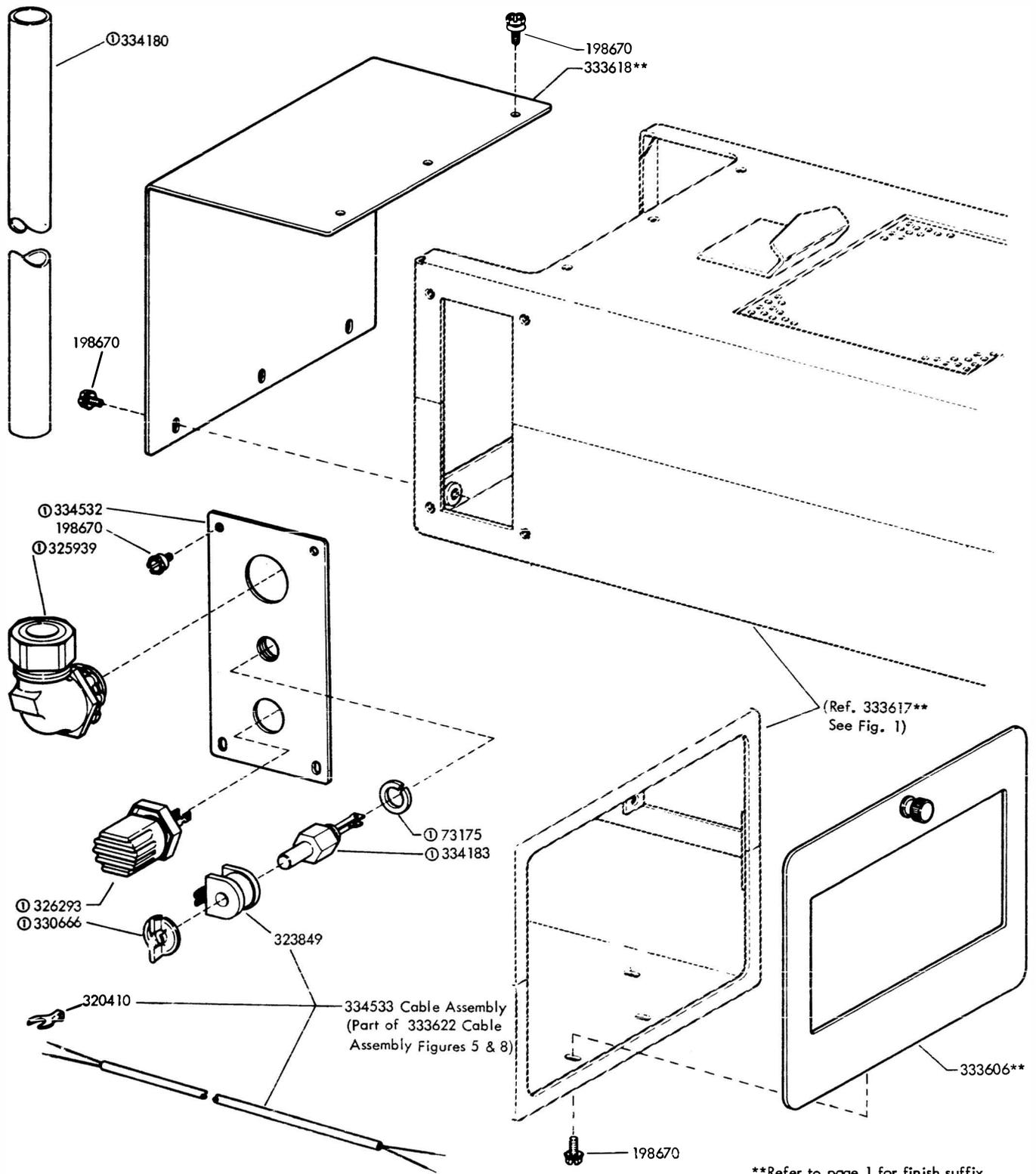


FIGURE 3. 333601\*\* NUMBERING MODULE ENCLOSURE (Continued)



\*\*Refer to page 1 for finish suffix  
 333622 Cable Assembly (Parts also shown on figure 8)

FIGURE 4. 336011\*\* ENCLOSURE AND POWERS SUPPLY ASSEMBLY  
 (PART OF 333601\*\* SEE FIGURES 1 & 2)

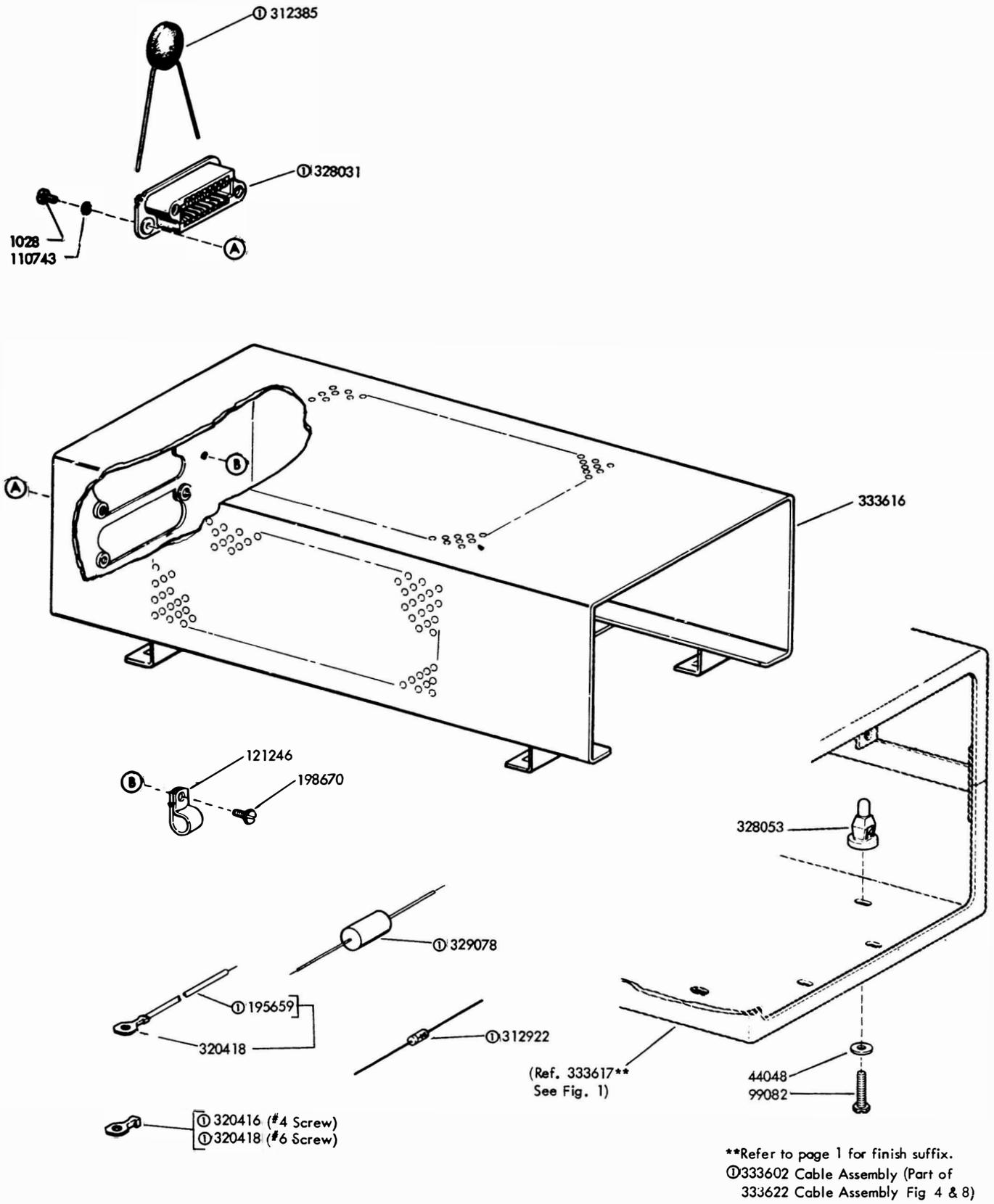
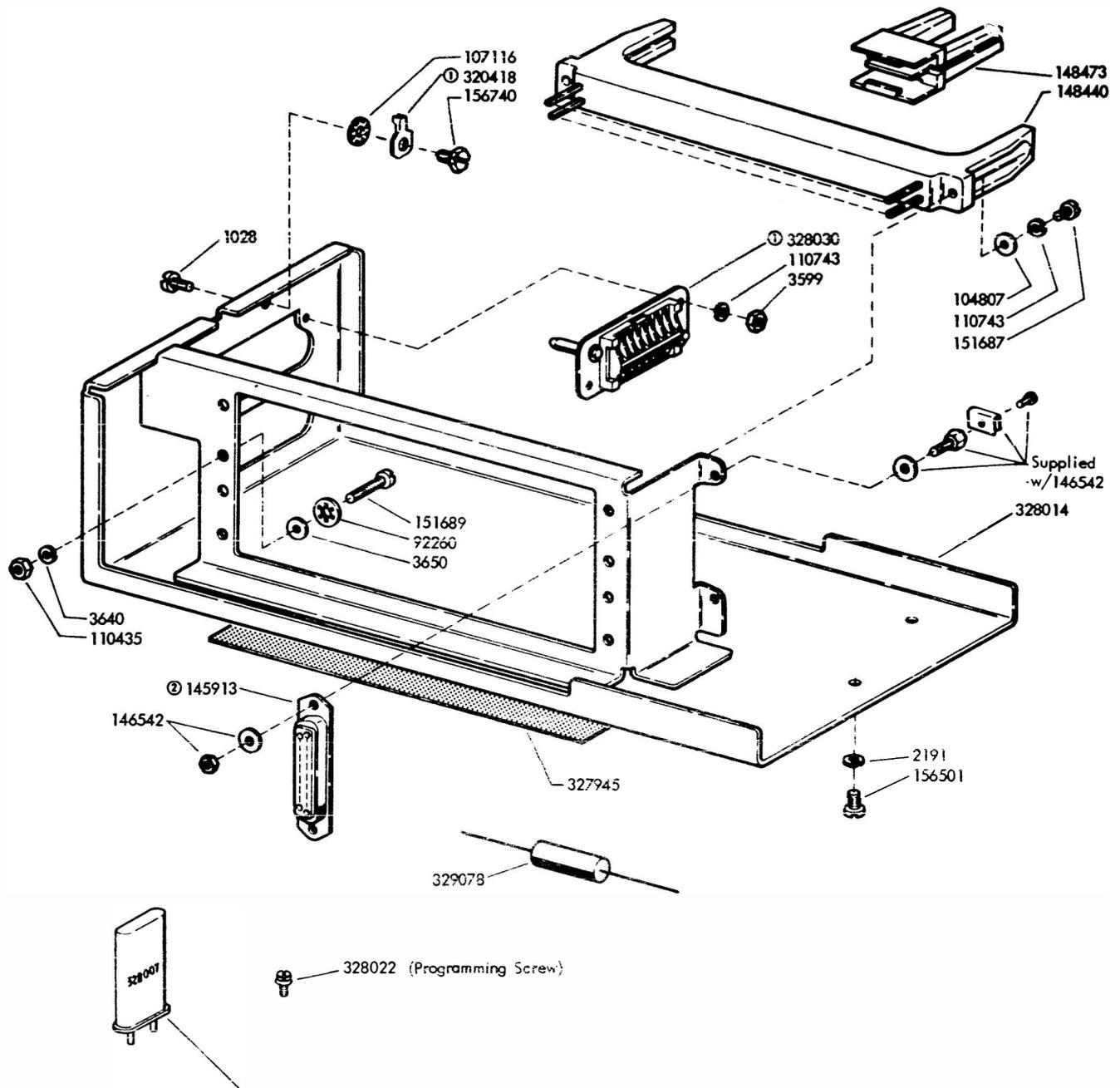


FIGURE 5. NUMBERING MODULE CHASSIS



CRYSTAL OPTIONS		
Number	Baud	Frequency
328003	75.00	38.400 K Hz
328004	74.20	37.990 K Hz
328005	56.83	29.097 K Hz
328006	50.00	25.672 K Hz
328007	45.53	23.211 K Hz

Numbering Module Component Chart		
Numbering Module		Components and Location
328000	328010	
X	X	330650 Numbering Module w/o card - Figure 6
X	X	322022 Message Counter Card - Figure 30
X	X	322023 Format Scanner Card - Figure 29
X	X	322024 Serialized Card - Figure 31
X	X	322025 Seizure & Tandem Delay Logic Card - Figure 32

- ① Supplied w/328025 Cable Assembly
- ② Supplied w/328011 Cable Assembly

FIGURE 6. 330650 NUMBERING MODULE WITHOUT CIRCUIT CARDS.

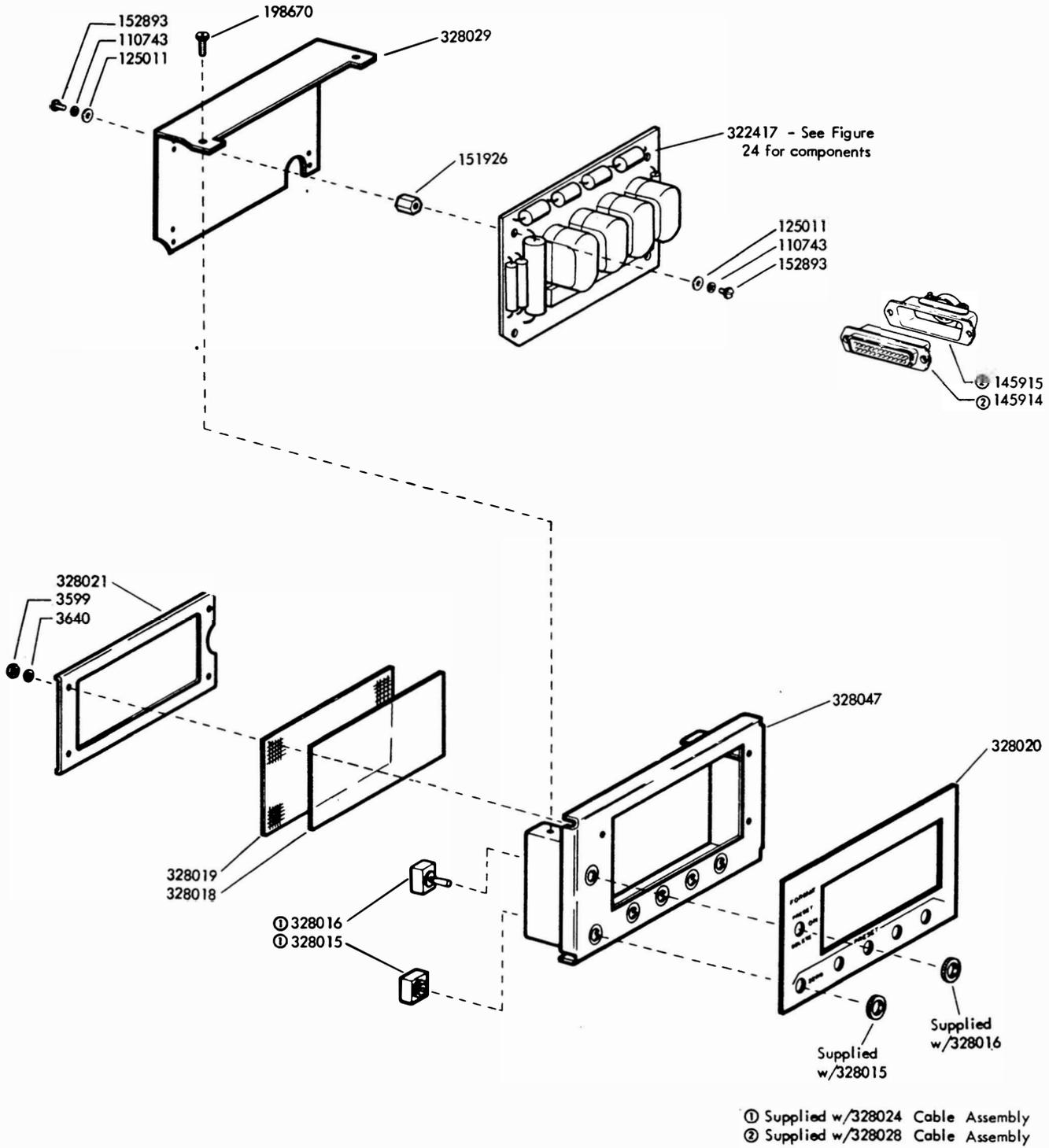


FIGURE 7. 328017 FRONT PLATE ASSEMBLY (PART OF 330650 SEE FIGURE 6)



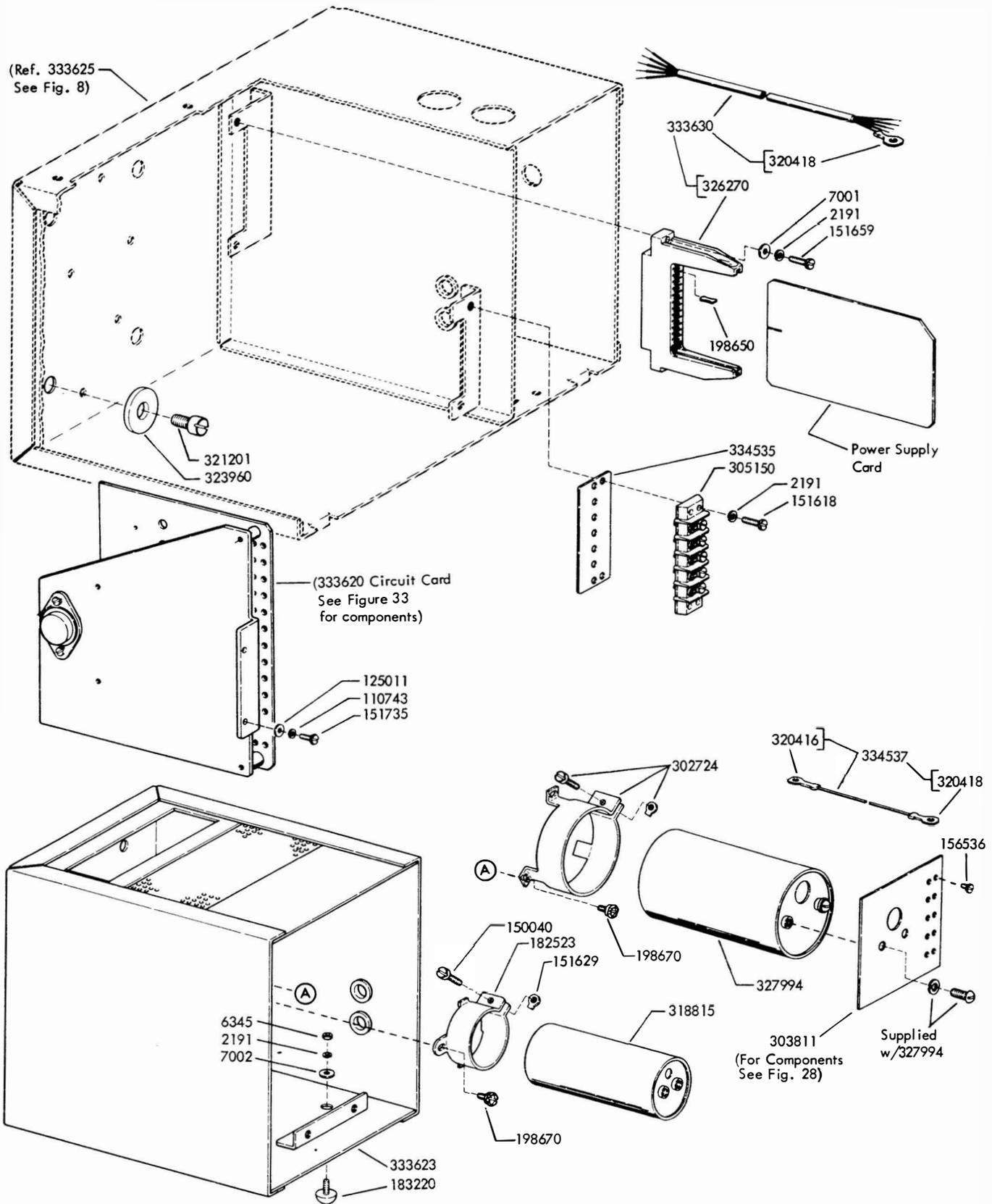
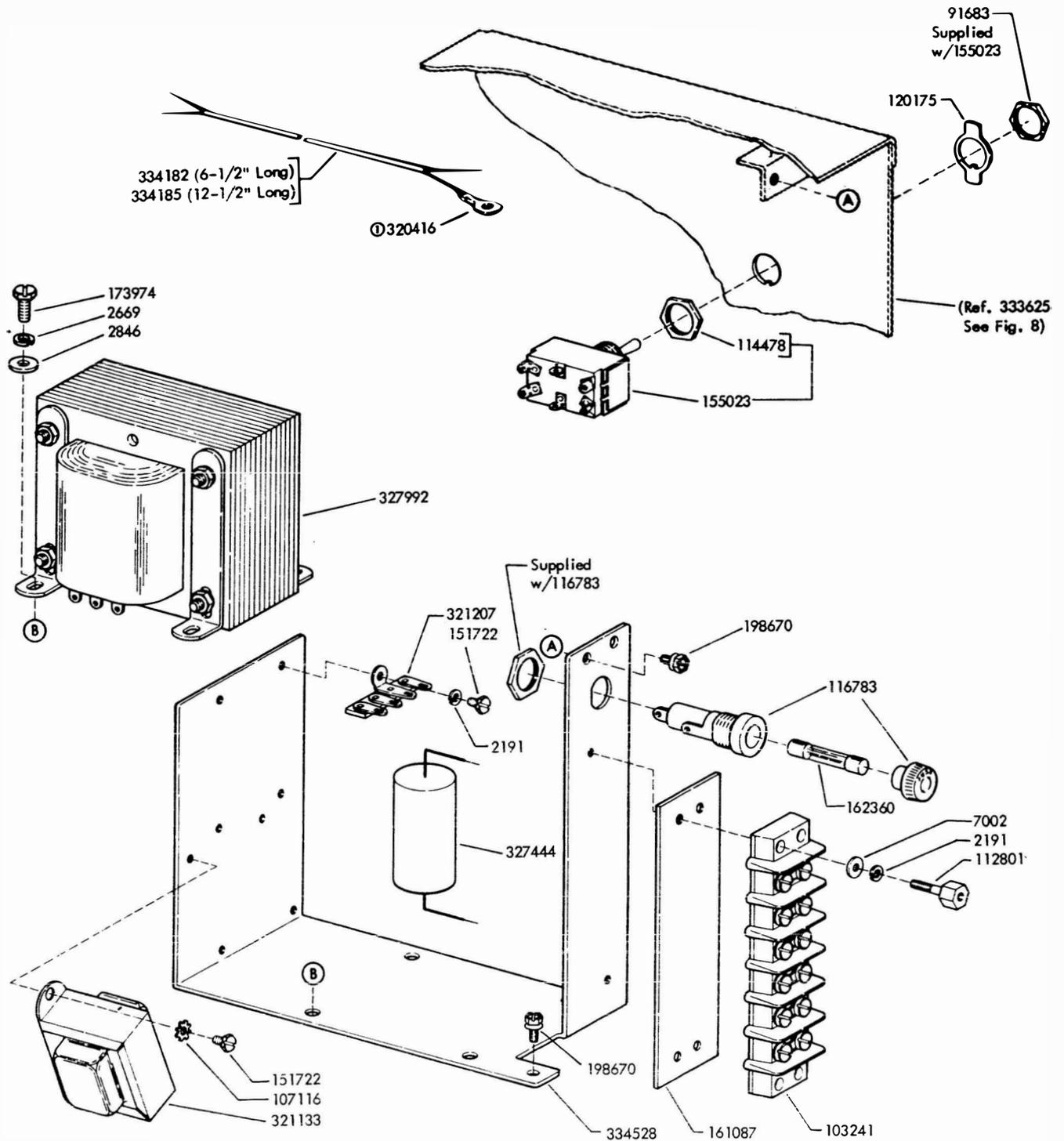


FIGURE 9. 333605 POWER SUPPLY ASSEMBLY (Continued)



① Supplied w/334182 and 334185

FIGURE 10. 333621 A.C. POWER PLATE ASSEMBLY (PART OF 333605 SEE FIGURES 8 & 9)

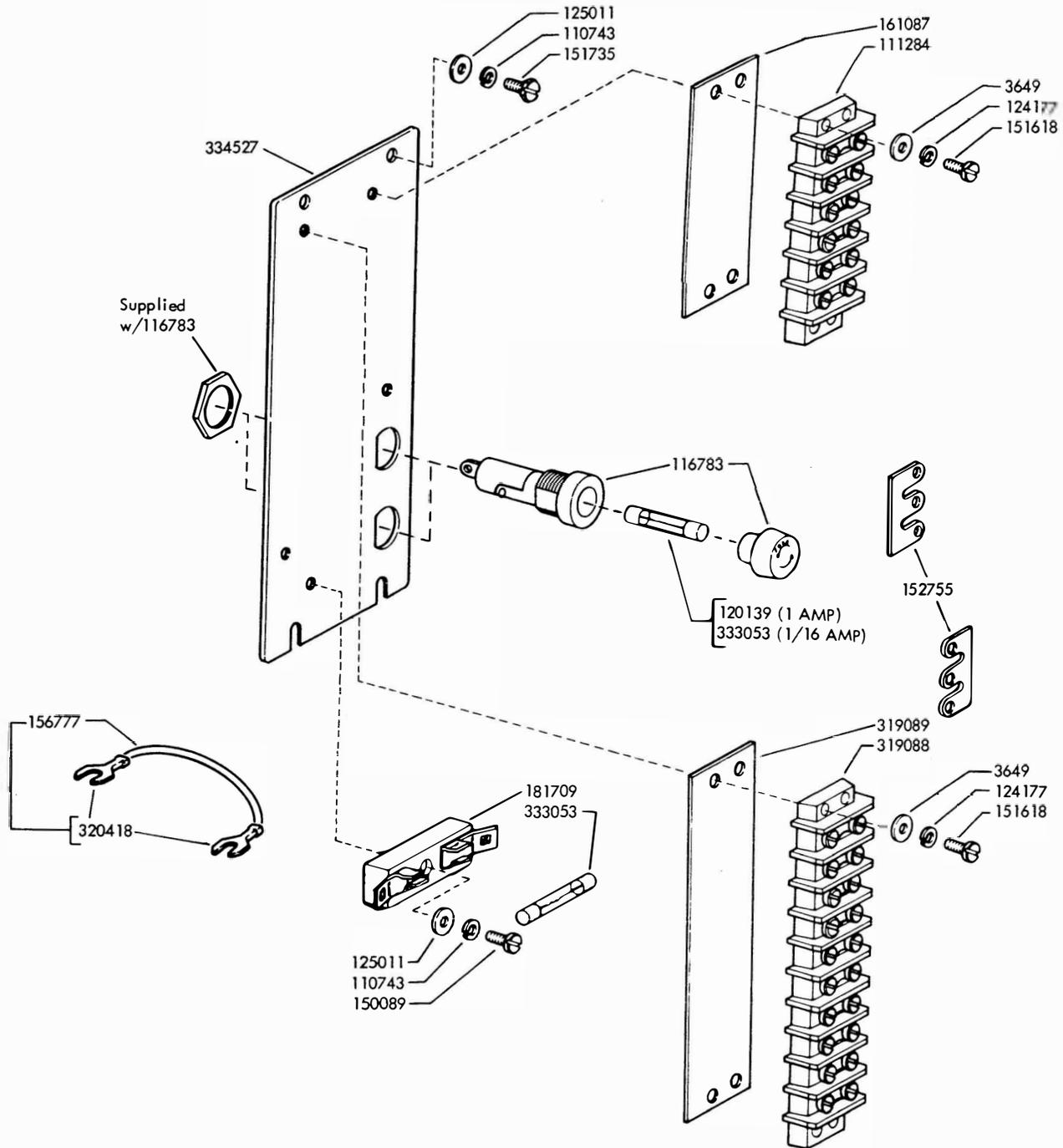


FIGURE 11. 333610 PLATE ASSEMBLY (PART OF 333605 SEE FIGURES 8 & 9)

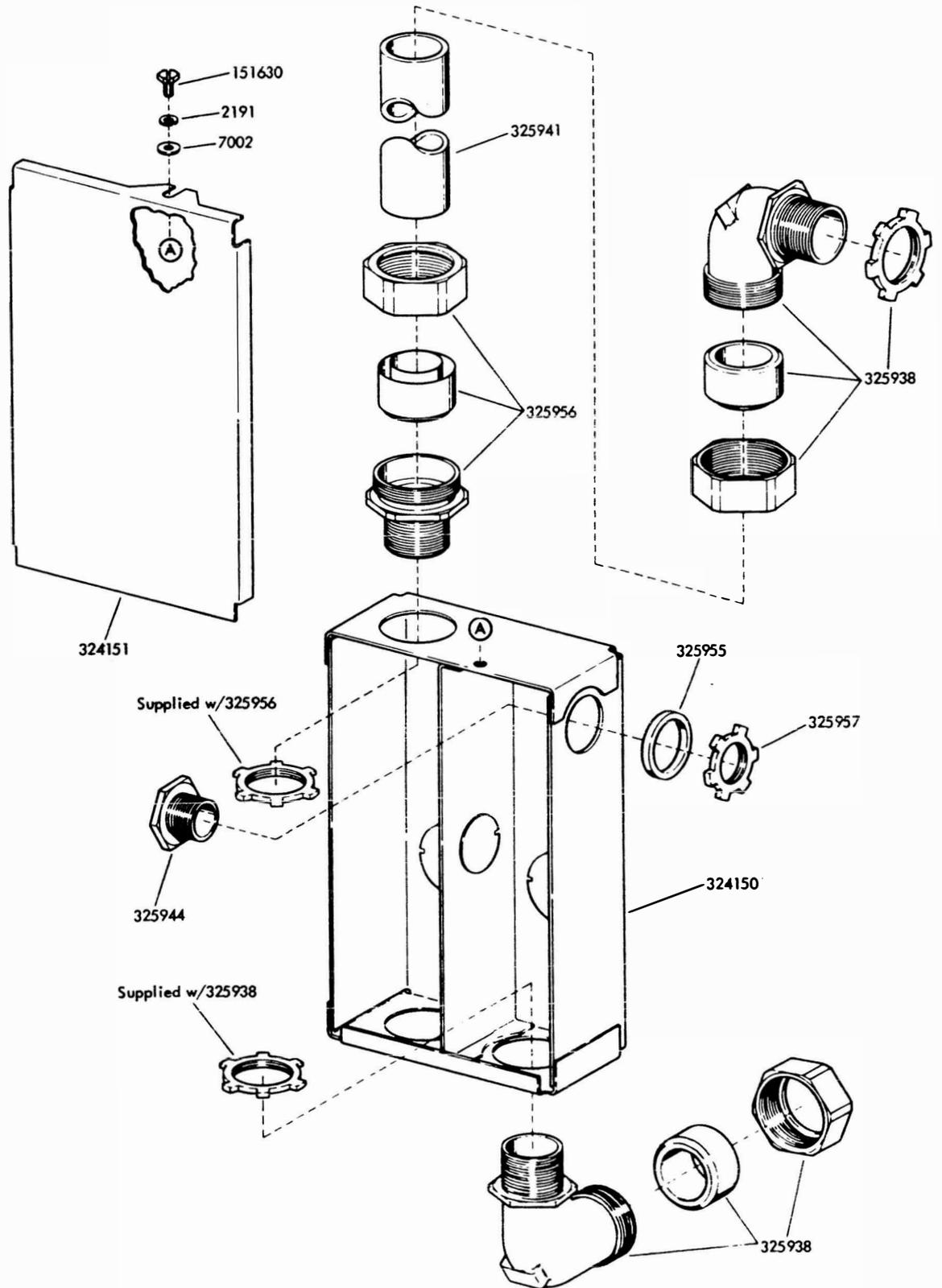


FIGURE 12. 324149 MODIFICATION KIT TO ADD JUNCTION BOXES TO CABINET

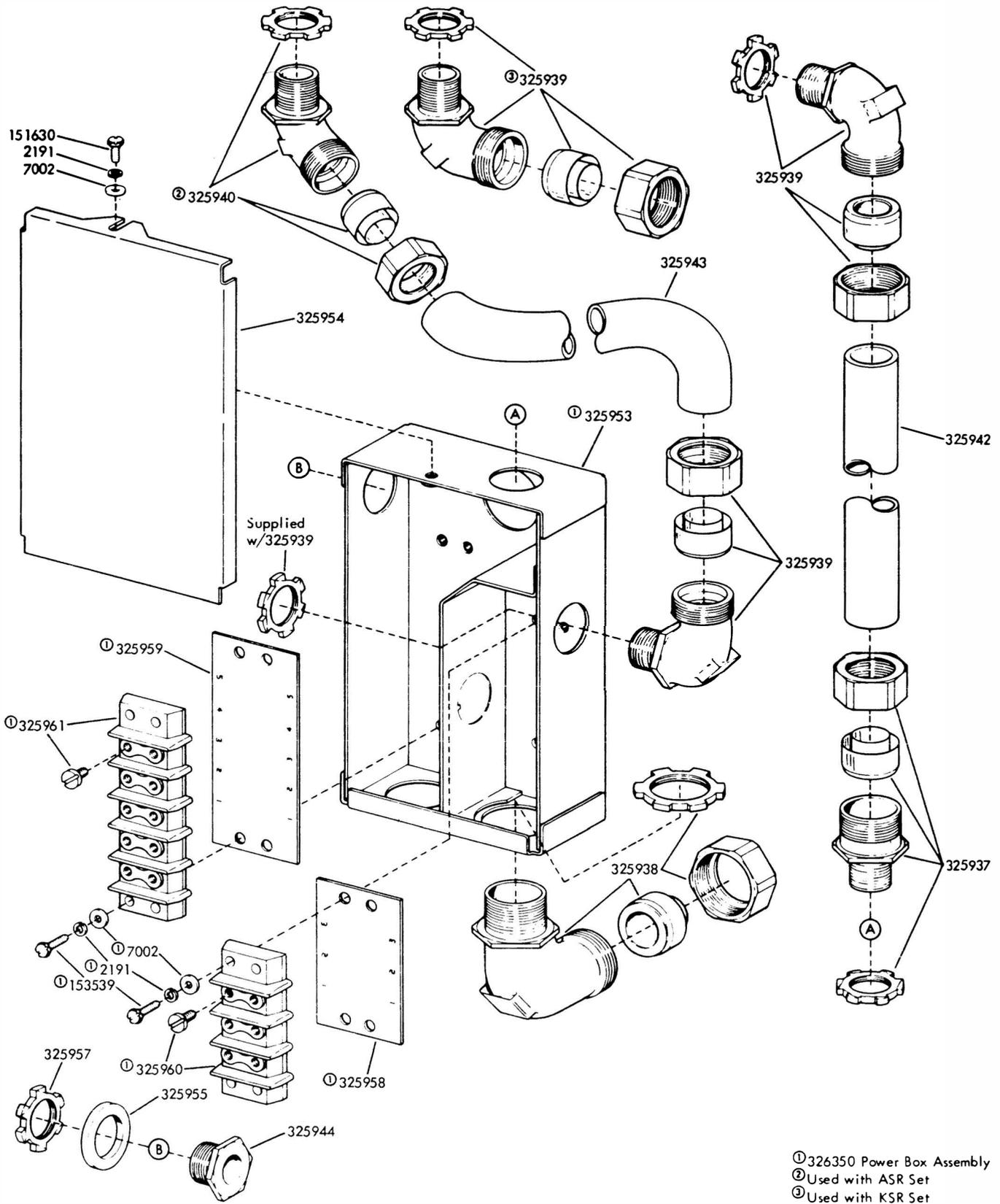


FIGURE 13. 324149 MODIFICATION KIT TO ADD JUNCTION BOXES TO CABINET (Continued)

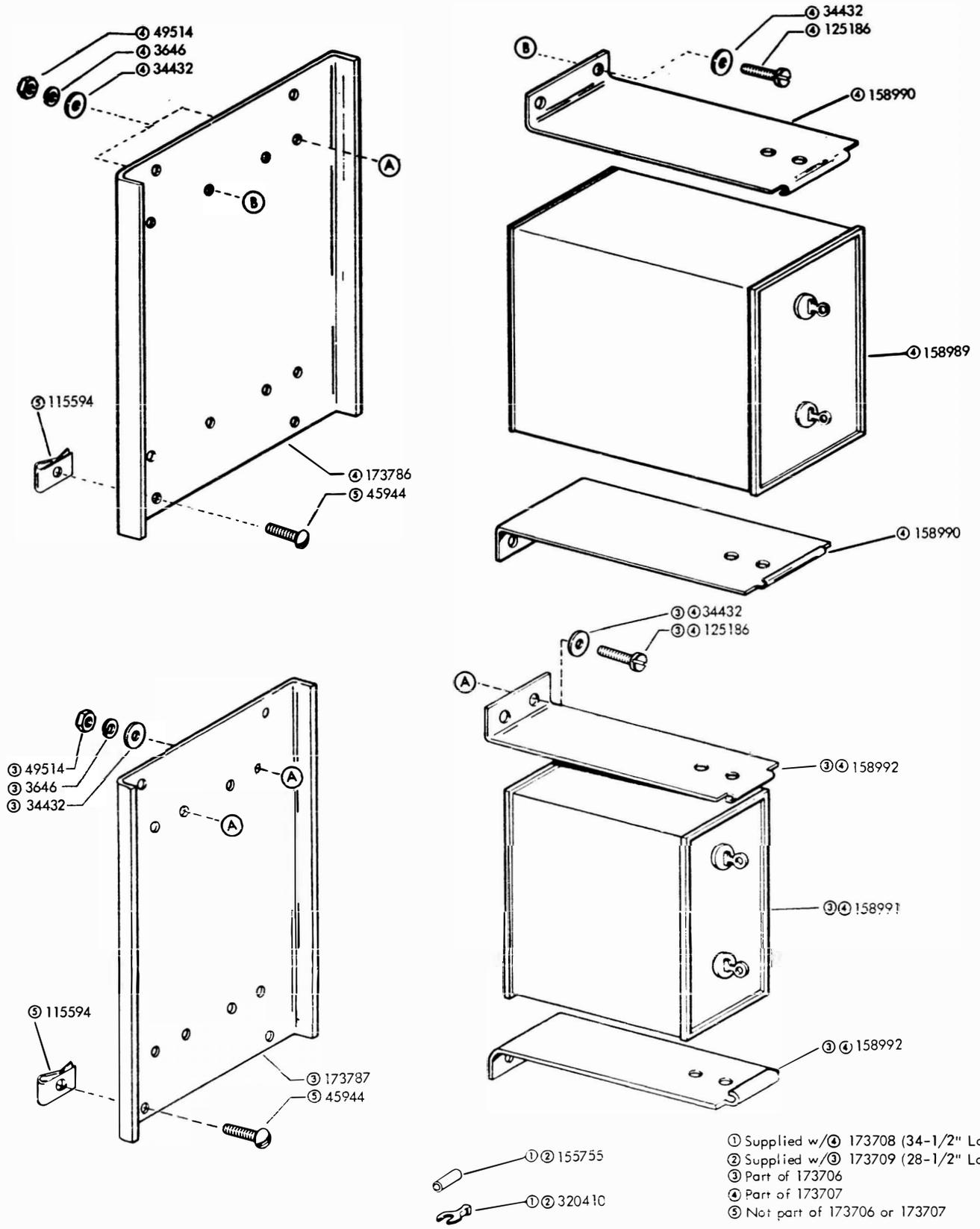
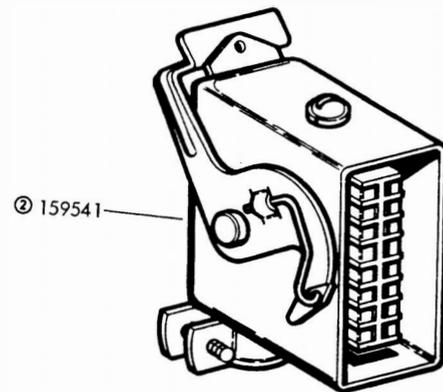
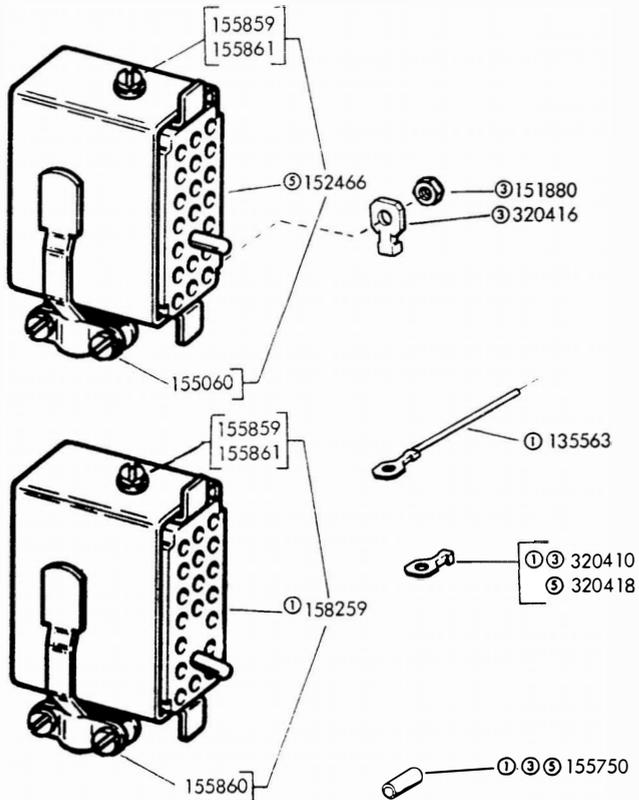
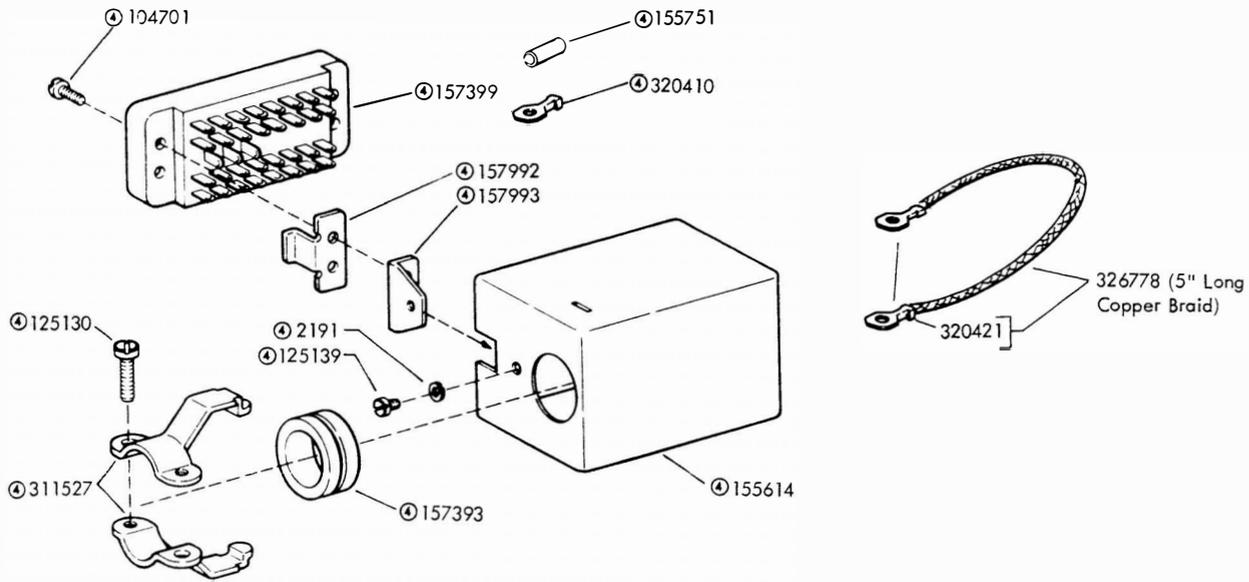


FIGURE 14. 173706 AND 173707 MODIFICATION KITS TO ADD POWER FACTOR CORRECTION TO CABINET



- ① 324157 Cable - Trans Base
- ② 324158 Cable - Auxil. Base
- ③ 324159 Cable - Keyboard
- ④ 324156 Cable - Page Printer
- ⑤ 324695 Cable - Page Printer

FIGURE 15. CABLE COMPONENTS FOR AUTOMATIC SEND-RECEIVE CABINET

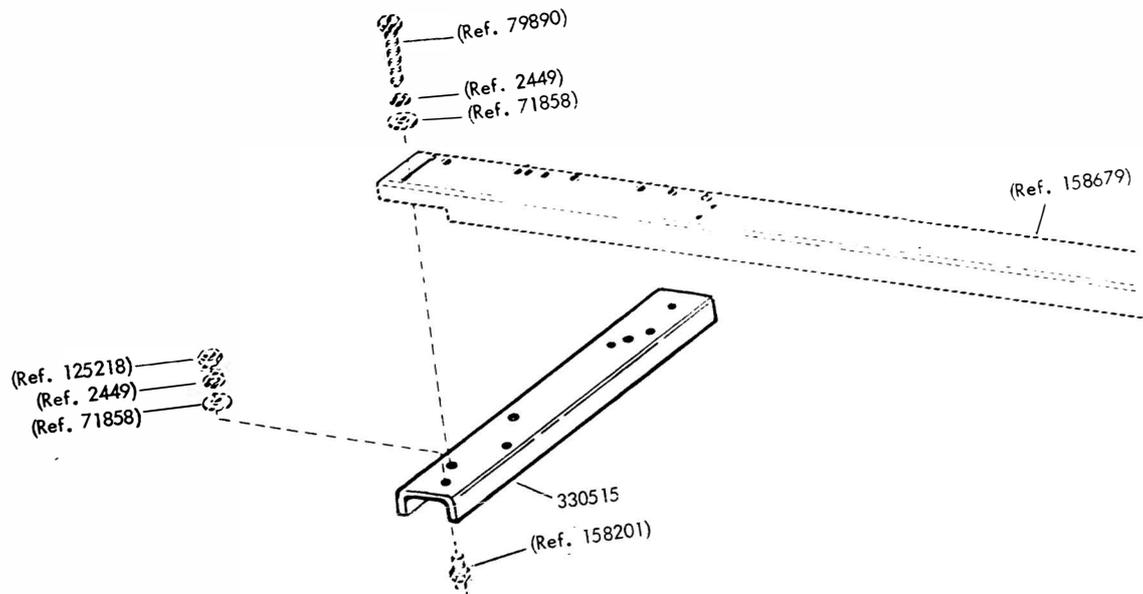
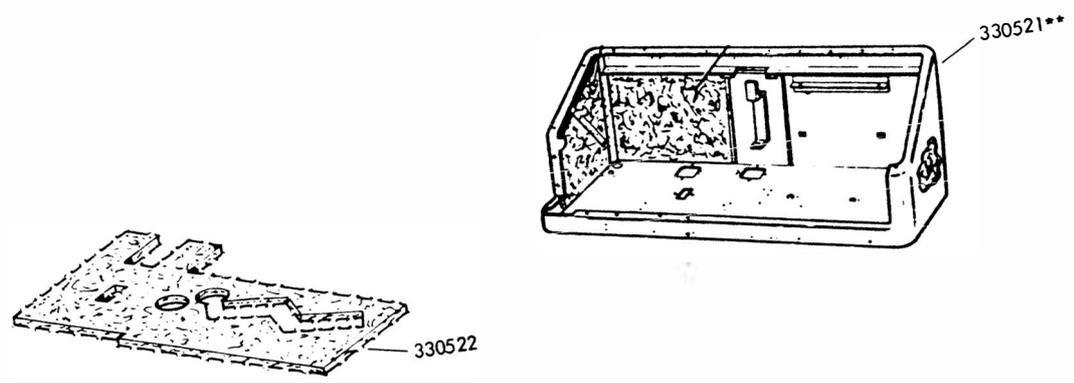


FIGURE 16. MOUNTING RAILS FOR AUTOMATIC SEND-RECEIVE CABINET



\*\*Refer to page 1 for finish surf

FIGURE 17. TABLE MOUNTED CABINET AND PAD

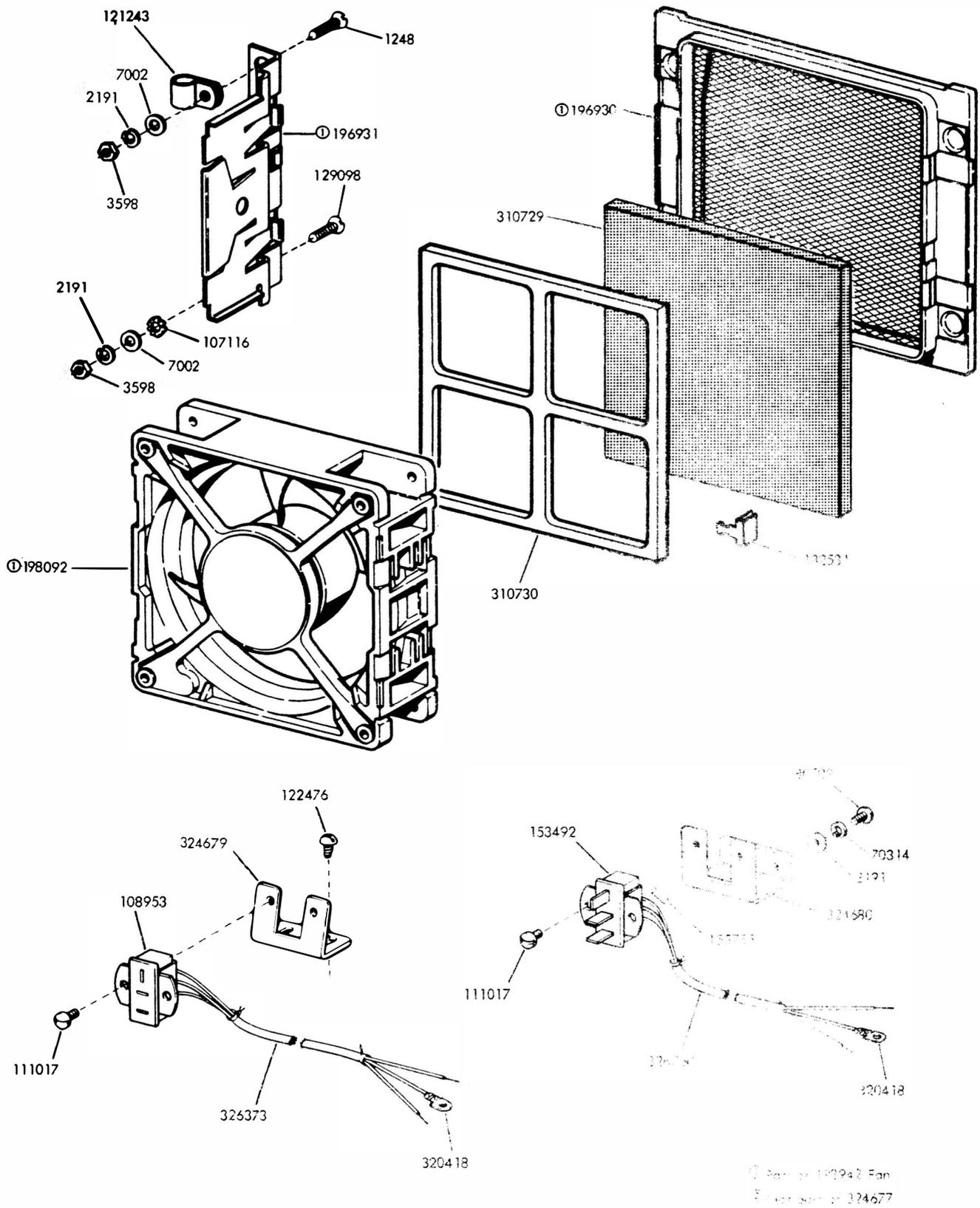
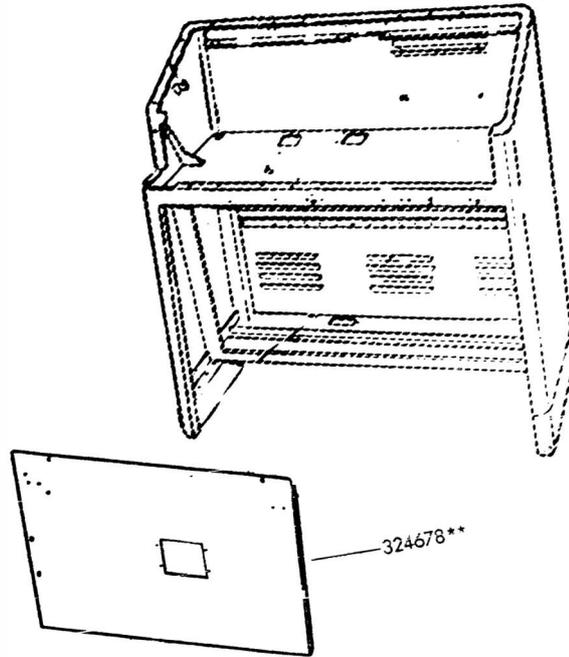
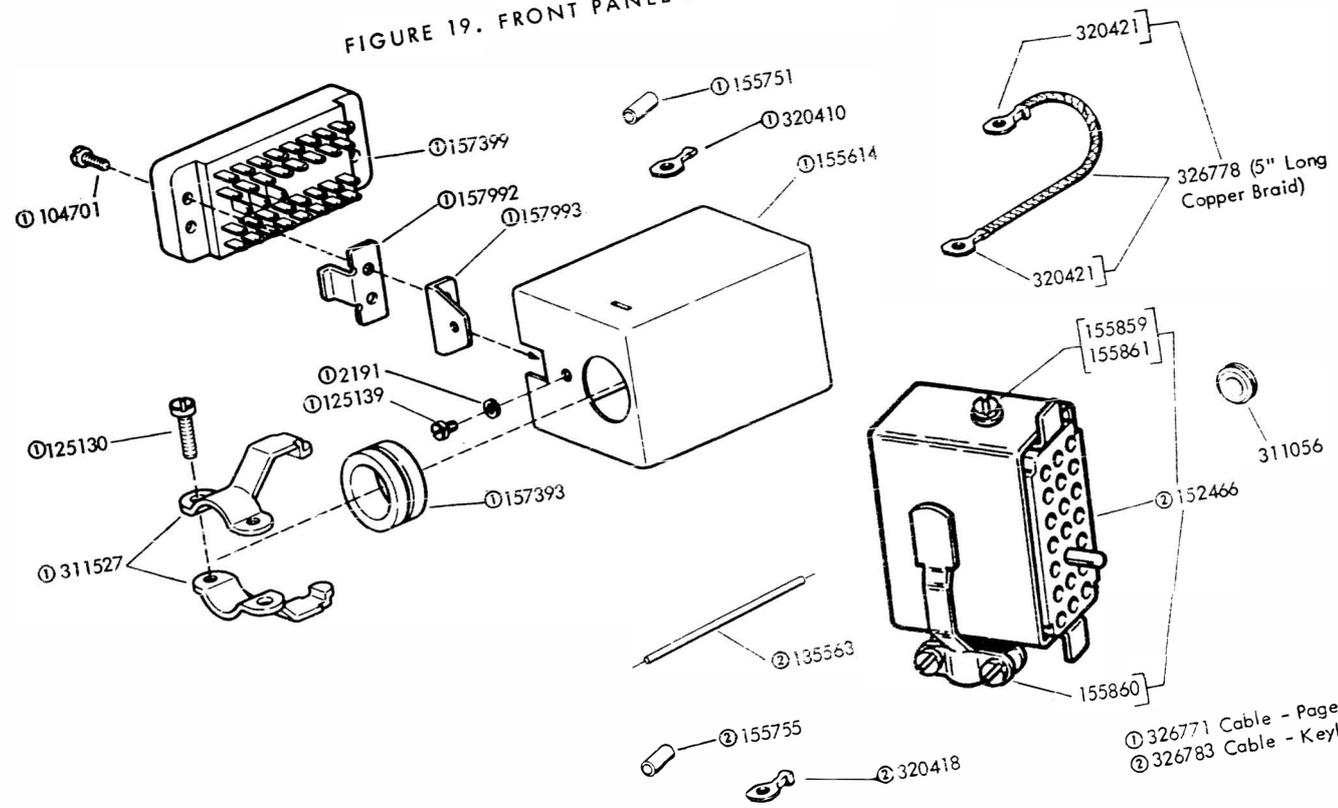


FIGURE 18. 324677 MODIFICATION KIT TO ADD FAN TO CABINET



\*\*Refer to page 1 for finish suffix

FIGURE 19. FRONT PANEL FAN MOUNTING



① 326771 Cable - Page Pri  
 ② 326783 Cable - Keyboar

FIGURE 20. CABLE COMPONENTS - KEYBOARD SEND-RECEIVE CABINET

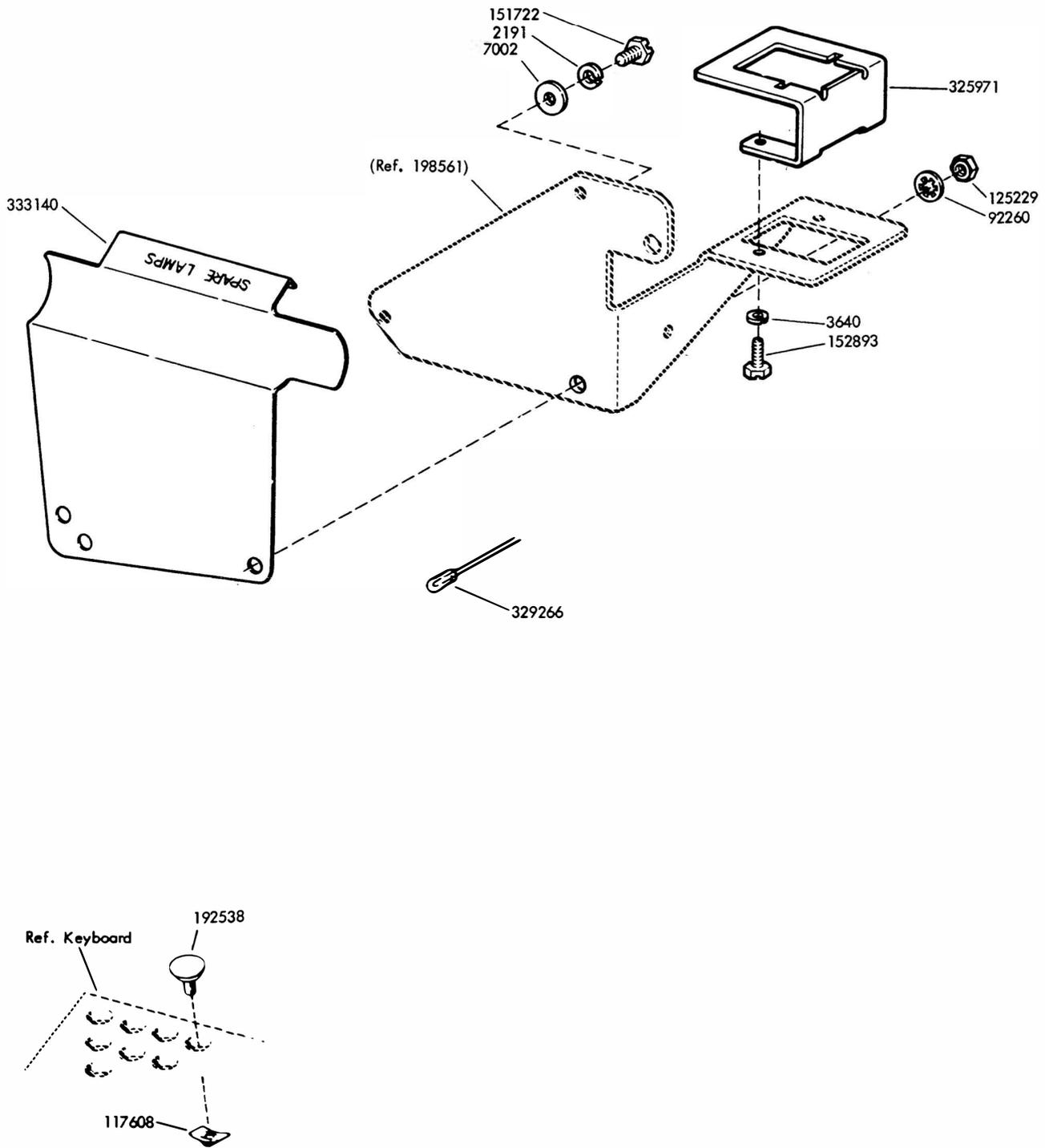


FIGURE 21. COMPACT PRINTER COVER COMPONENTS

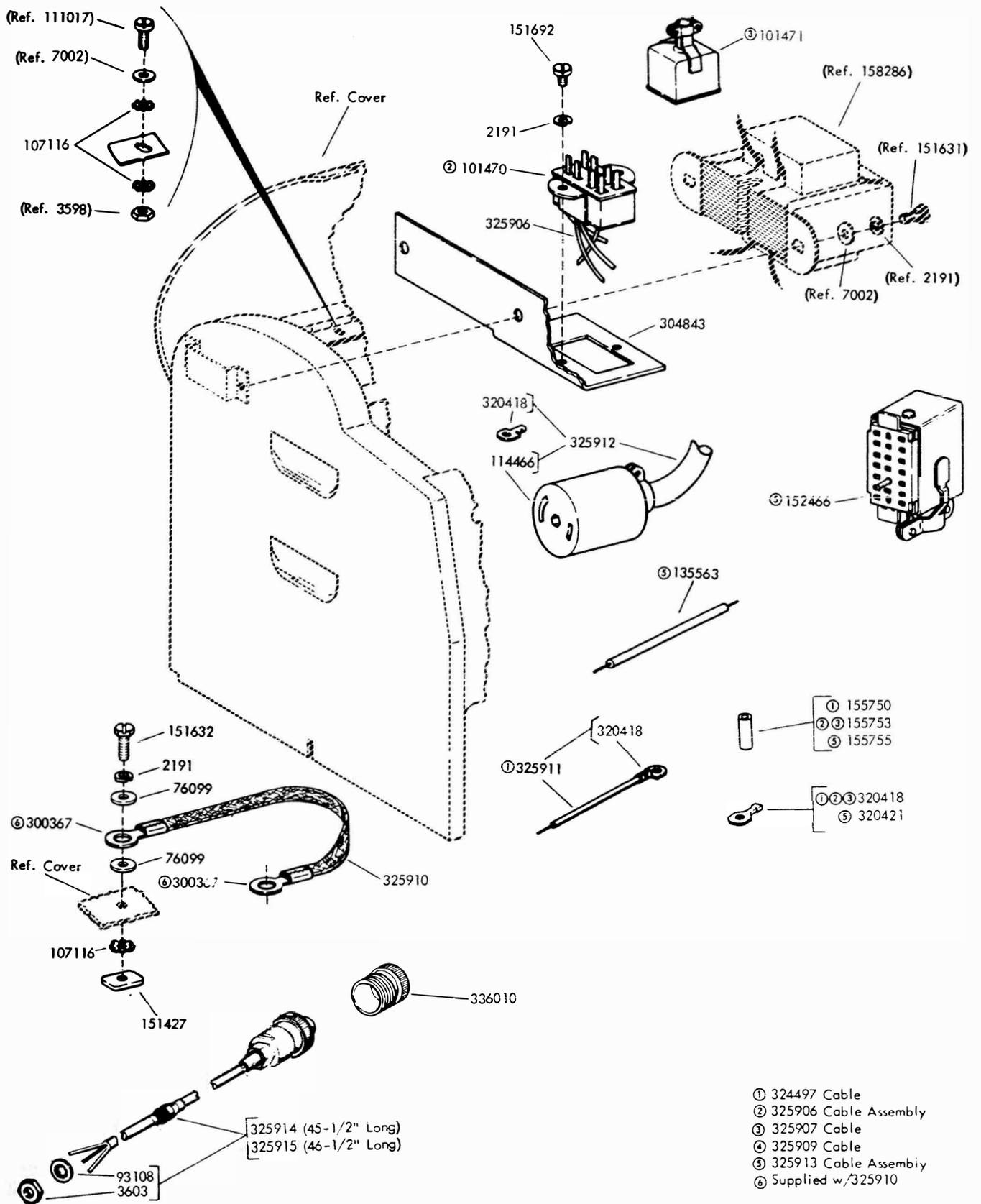


FIGURE 22. COMPONENTS FOR RECEIVE-ONLY AND SEND-RECEIVE SETS

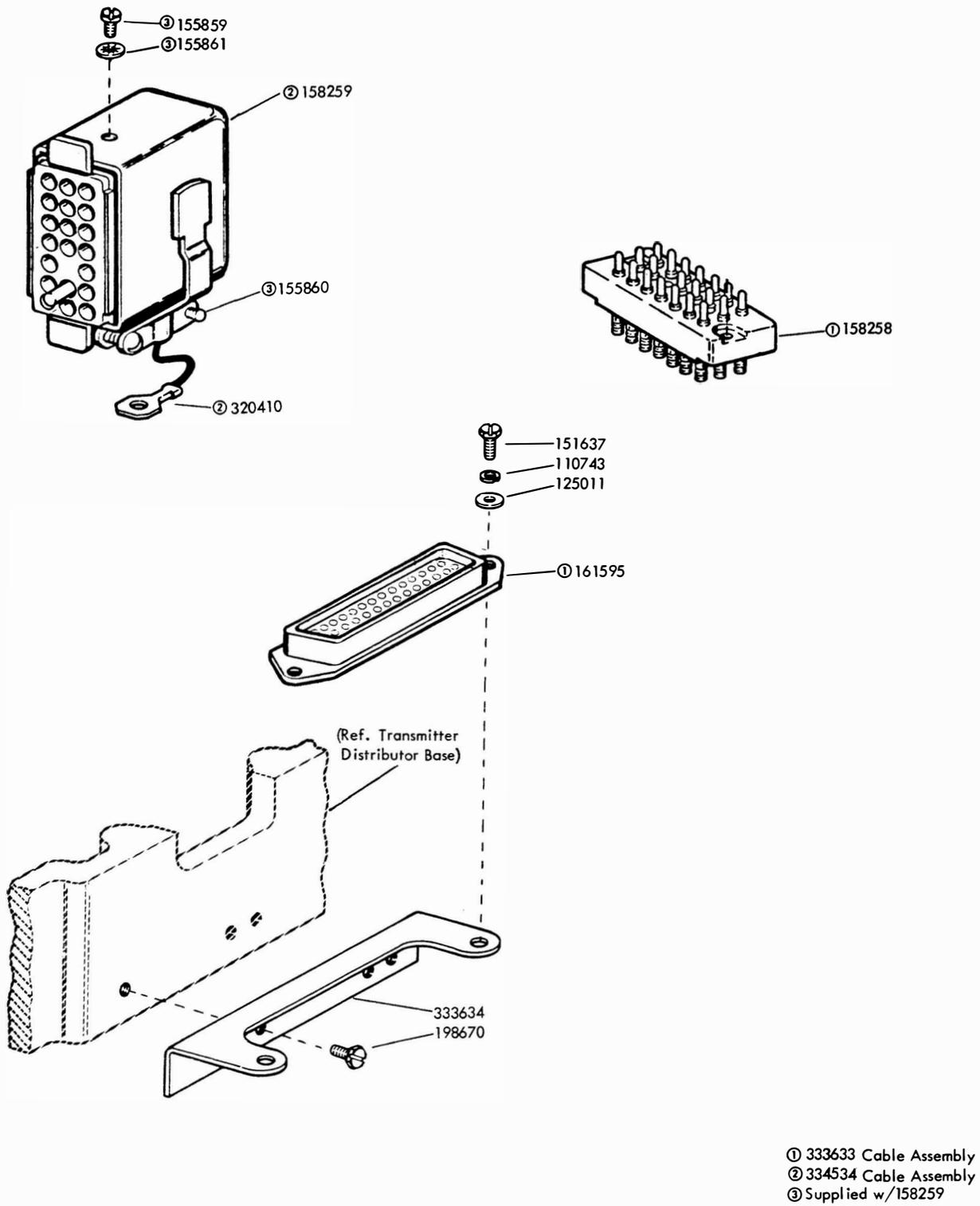
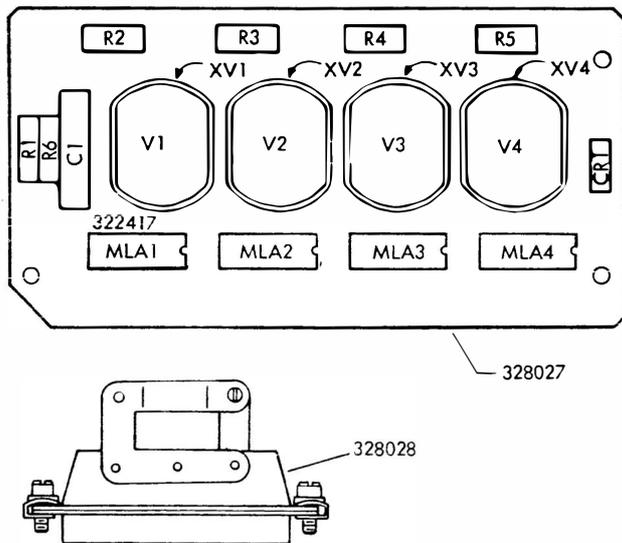
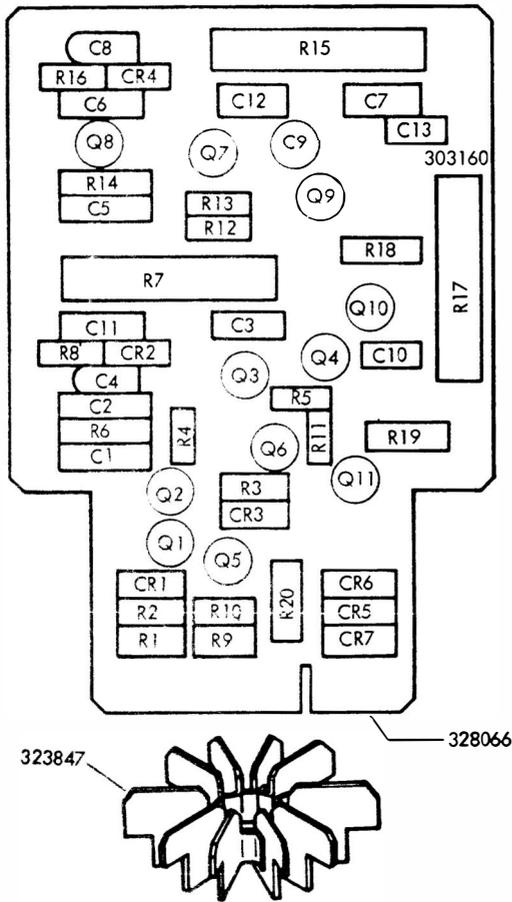


FIGURE 23. COMPONENTS FOR TRANSMITTER-DISTRIBUTOR BASE



Reference Designation	Part No.	Description
R1	137602	Resistor, 470 Ohm
R2,3,4&5	118197	Resistor, 47,000 OHM
R6	118169	Resistor, 1 Meg Ohm
C1	327969	Capacitor, .01 MFD
V1,2,3&4	328002	Tube, Readout
CR1	181653	Diode, 1N645
XV1,2,3&4	328001	Socket, Tube

FIGURE 24. 322417 CIRCUIT CARD w/CABLE



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
Q1, 2, 5 & 6	315930	Transistor
Q3, 7 & 10	302865	Transistor
Q4 & 8	321261	Transistor
Q9	323844	Transistor
Q11	323845	Transistor



FIGURE 25. 303160 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

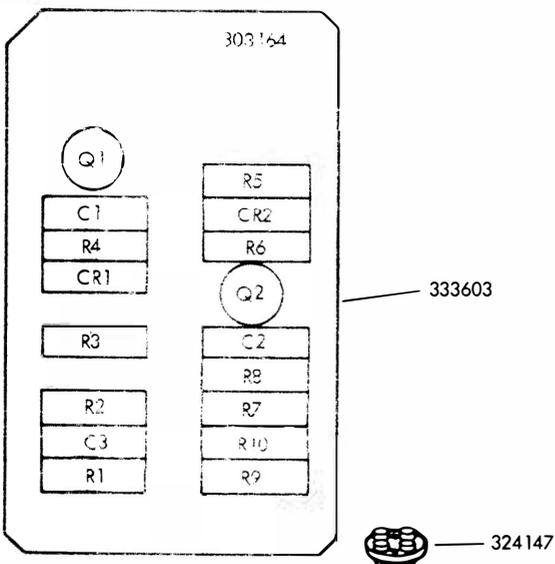
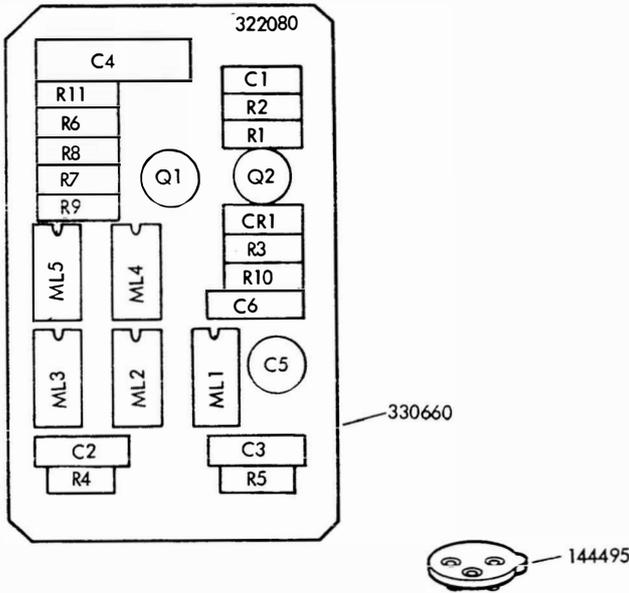
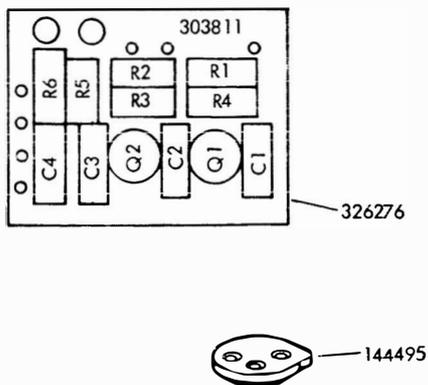


FIGURE 26. 303164 CIRCUIT CARD



Reference Designation	Part No.	Description
R1,2	137441	Resistor, 1,200 Ohm
R3	118153	Resistor, 33,000 Ohm
R4,5,10	129856	Resistor, 150 Ohm
R6	145032	Resistor, 3,900,000 Ohm
R7	118185	Resistor, 3,300,000 Ohm
R8	118189	Resistor, 1,800,000 Ohm
R9	137438	Resistor, 100 Ohm
R11	120120	Resistor, 20,000,000 Ohm
C1	315976	Capacitor, 470 PF
C2,3,6	181618	Capacitor, .01 MFD
C4	320047	Capacitor, 2 MFD
C5	312385	Capacitor, .1 MFD
CR1	197464	Diode, 1N914
Q1	327946	Transistor, D13T2
Q2	315930	Transistor, 2N3568

FIGURE 27. 322080 CIRCUIT CARD



Reference Designation	Part No.	Description
R1,2	315955	Resistor, 2,200 Ohm
R3,4	321545	Resistor, 12,000 Ohm
R5,6	315948	Resistor, 100 Ohm
C1,2,3,4	312385	Capacitor, .1 MFD
Q1,2	315930	Transistor, 2N3568

FIGURE 28. 303811 CIRCUIT CARD

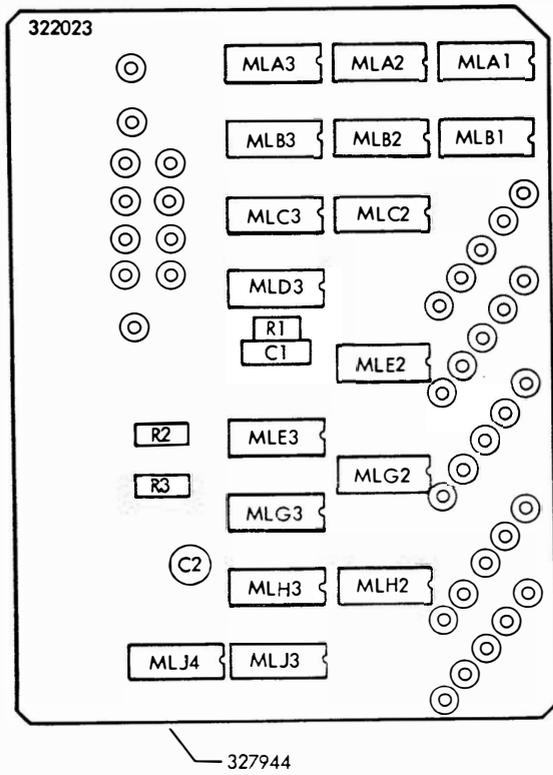


FIGURE 29. 322023 CIRCUIT CARD

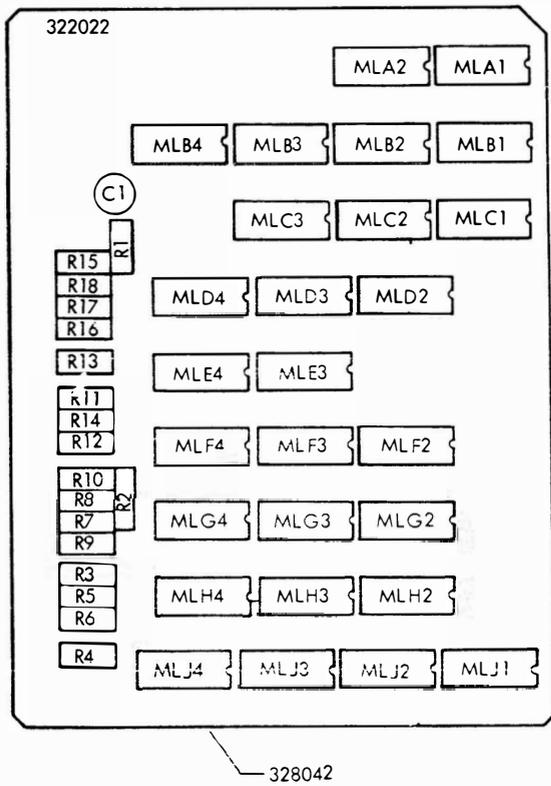
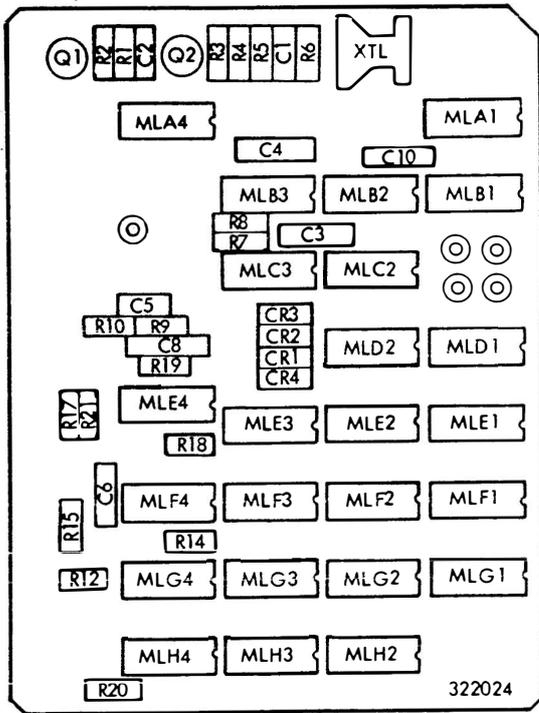


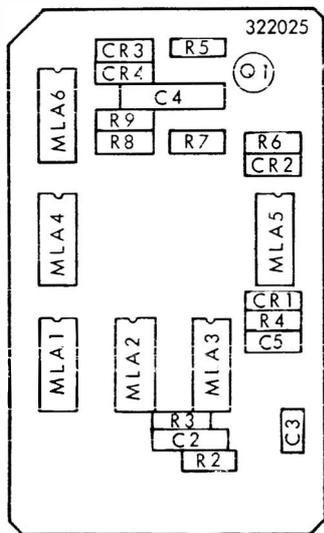
FIGURE 30. 322022 CIRCUIT CARD



328045

FIGURE 31. 322024 CIRCUIT CARD

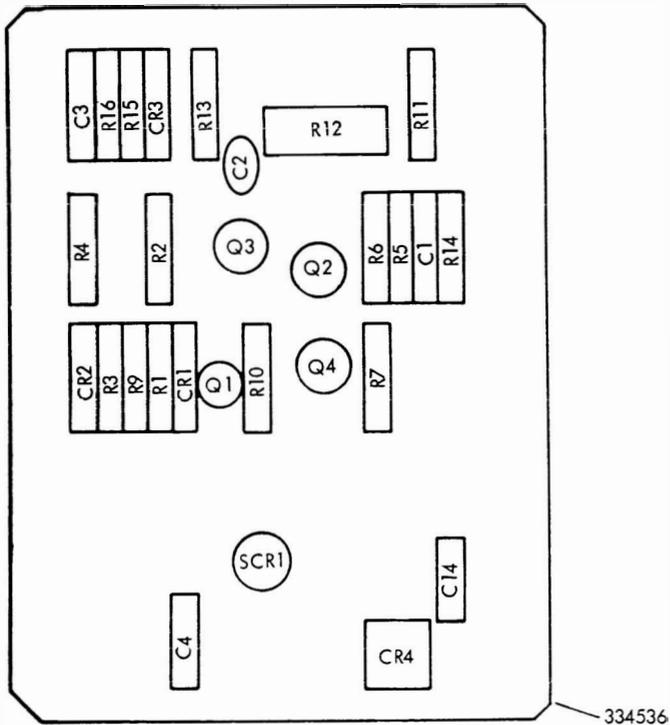
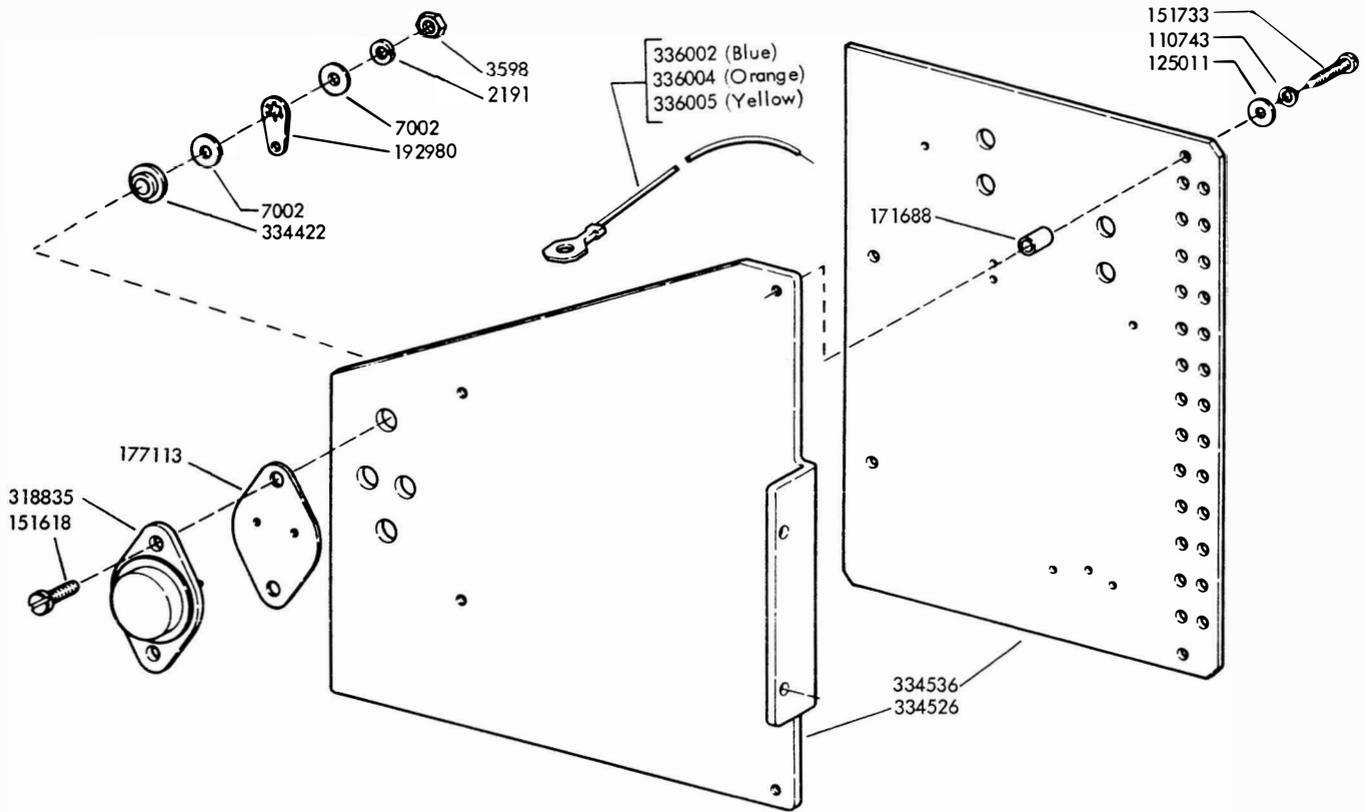
Reference Designation	Part No.	Description
R1, 12, 15, 18 & 20	315956	Resistor , 2700 Ohm
R2	321510	Resistor , 51,000 Ohm
R3	315959	Resistor , 4700 Ohm
R4	315974	Resistor , 300,000 Ohm
R5	315947	Resistor , 51 Ohm
R6	321545	Resistor , 12,000 Ohm
R7, 8, 14 & 19	330640	Resistor , 150 Ohm
R9, 10, 17 & 21	315960	Resistor , 5600 Ohm
C1 & 5	315976	Capacitor , 470 MFD
C2	310926	Capacitor , .15 MFD
C3, 4, 6, & 8	300370	Capacitor , .01 MFD
C10	312385	Capacitor , .1 MFD
CR1, 2, 3 & 4	197464	Diode , 1N914
Q1 & 2	315930	Transistor , 2N3568
	144495	Pad, Transistor Mounting
XTL	328043	Socket, Crystal
	328022	Screw



328050

FIGURE 32. 322025 CIRCUIT CARD

Reference Designation	Part No.	Description
R3, 5 & 9	330640	Resistor , 150 Ohm
R2 & 4	321510	Resistor , 51,000 Ohm
R6	330645	Resistor , 560,000 Ohm
R7	315972	Resistor , 22,000 Ohm
R8	318801	Resistor , 47,000 Ohm
C2	300370	Capacitor , .01 MFD
C3	312385	Capacitor , .1 MFD
C4	320048	Capacitor , .5 MFD
C5	319999	Capacitor , .01 MFD
CR1 & 2	181653	Diode , 1N645
CR3 & 4	197464	Diode , 1N914



Reference Designation	Part No.	Description
R1	182180	Resistor, 200 Ohm
R2, 6, 14	118725	Resistor, 270 Ohm
R3	137601	Resistor, 68 Ohm
R4	321150	Resistor, 549 Ohm
R5, 10, 13, 16	137438	Resistor, 100 Ohm
R7	137441	Resistor, 1200 Ohm
R9	118727	Resistor, 47 Ohm
R11, 15	178861	Resistor, 27 Ohm
R12	300024	Resistor, 100 Ohm
C1, 3, 4	182628	Capacitor, 10 MFD
C2	312385	Capacitor, .1 MFD
C14	194690	Capacitor, 2 MFD
CR1	312922	Diode, 1N4733A
CR2	315894	Diode, 1N4370A
CR2	321135	Diode, 1N4735A
CR4	326292	Diode
SCR1	324662	Rectifier
Q1	321261	Transistor, 2N4036
Q2, 3, 4	321145	Transistor, 2N2270

FIGURE 33. 333620 CIRCUIT CARD

## NUMERICAL INDEX

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
1028	Screw, 4-40 x 1/4 FIL 6, 7	118725	Resistor, 270 Ohm 28	155750	Sleeve, 3/32 ID x 1/2" Lg Insulating 16, 21
1248	Screw, 6-40 x 1/2 Flat 18	118727	Resistor, 47 Ohm 28	155751	Sleeve, 1/8 ID x 1" Lg Insulating 16, 19
1253	Screw, 8-32 x 3/8 Rd 3	119743	Grommet, Rubber 9	155753	Sleeve, 1/8 ID x 1/2" Lg Insulating 21
2191	Washer, Lock 7, 10, 11, 13, 14, 16, 18, 19, 20, 21, 28	120120	Resistor, 20 Meg Ohm 25	155755	Sleeve, 11/64 ID x 5/8" Lg Insulating 15, 18, 19, 21
2449	Washer, Lock 17	120139	Fuse, 1 Amp 12	155859	Screw, 4-40 x 3/8 Rd 16, 19, 22
2669	Washer, Lock 11	120175	Plate, On-Off 11	155860	Screw, 4-40 x 3/8 Rd 16, 19, 22
2846	Washer, Flat 11	120424	Resistor, 4,300 Ohm 24	155861	Washer, Lock 16, 19, 22
3595	Nut, 1/4-32 Hex 9	121243	Clamp, 3/16 ID Cable 18	156501	Screw, 6-40 x 7/32 Fil 7
3598	Nut, 6-40 Hex 4, 18, 21, 28	121246	Clamp, 3/8 ID Cable 6, 9	156536	Screw, 4-40 x 1/8 Fil 10
3599	Nut, 4-40 Hex 7, 8	122476	Screw, #6 Self-Tapping 18	156740	Screw, 6-40 x 7/32 Hex 7
3603	Nut, 1/4-32 Hex 21	124177	Washer, Lock 12	156777	Jumper, 2" Block 12
3639	Washer, Lock 3	125011	Washer, Flat 8, 10, 12, 22, 28	157393	Grommet, Rubber 16, 19
3640	Washer, Lock 7, 8, 20	125098	Nut, Lock 9	157399	Connector, 3.5 Pt Receptacle 16, 19
3646	Washer, Lock 15	125130	Screw, 6-32 x 1/2 Fil 16, 19	157992	Bracket 16, 19
3649	Washer, Flat 12	125139	Screw, 4-40 x 1/8 Fil 16, 19	157993	Bracket 16, 19
3650	Washer, Flat 7	125186	Screw, 8-32 x 3/4 Fil 15	158201	Stud 17
6345	Nut, 6-32 Hex 10	125218	Nut, 1/4-32 Hex 17	158258	Connector, 20 Pt Plug 22
7001	Washer, Flat 10	125229	Nut, 6-32 Hex 20	158259	Connector, 20 Pt Receptacle 16, 22
7002	Washer, Flat 10, 11, 13, 14, 18, 20, 21, 28	125231	Nut, 10-32 Hex 3	158286	Transformer 21
34432	Washer, Flat 15	128357	Ring, Retaining 4	158679	Rail, Front Base 17
44048	Washer, Flat 3, 4, 6	129098	Screw, 6-40 x 11/32 Flat 18	158989	Capacitor, 20 MFD 15
45944	Screw, 8-32 x 5/8 Rd 15	129856	Resistor, 150 Ohm 25	158990	Bracket, Mounting 15
49514	Nut, 8-32 Hex 15	135563	Jumper, 2-3/4" Green 16, 19, 21	158991	Capacitor, 15 MFD 15
70314	Washer, Flat 18	137438	Resistor, 100 Ohm 24, 25, 28	158992	Bracket, Mounting 15
71858	Washer, Flat 17	137441	Resistor, 1,200 Ohm 24, 25, 28	159541	Connector, 16 Pt Plug 16
73175	Washer, Lock 5	137601	Resistor, 68 Ohm 28	161087	Insulator, Terminal Block 11, 12
76099	Washer, Flat 21	137602	Resistor, 470 Ohm 23	161592	Plate w/Studs 2
79890	Screw, 1/4-32 x 7/8 Hex 17	144495	Pod, Transistor Mounting 24, 25, 27	161595	Connector, 3.6 Pt Receptacle 22
80121	Shim, .095" Thk 9	145032	Resistor, 3.9 Meg Ohm 25	162360	Fuse, SL-BL .8 Amp 11
80709	Screw, 6-40 x 1/4 Rd 18	145913	Connector, 25 Pt Receptacle Type 7	165072	Resistor, 9,100 Ohm 24
91683	Nut, 15/32-32 Hex 11	145914	Connector, 25 Pt Plug Type 8	171688	Bushing, .265" Thk 28
92260	Washer, Lock 7, 20	145915	Clamp, Cable 8	173706	Modification Kit 1, 15
93108	Washer, Lock 21	146542	Post, Assembly 7	173707	Modification Kit 1, 15
99082	Screw, 8-32 x 11/16 Hex 3, 4, 6	148440	Connector, 36 Pt Circuit Card 7	173708	Cable, w/Terminals 15
93108	Connector, 8 Pt Plug 21	148473	Guide, Circuit Card 7	173709	Cable, w/Terminals 15
101470	Connector, 8 Pt Receptacle 21	150040	Screw, 6-40 x 5/8 Fil 10	173786	Plate, Mounting 15
101471	Connector, 8 Pt Receptacle 21	150089	Screw, 4-40 x 1/2 Fil 12	173787	Plate, Mounting 15
103241	Block, Terminal 11	151427	Plate, Clamp 21	173974	Screw, 10-32 x 5/16 Hex 11
104451	Washer, Lock 9	151618	Screw, 6-40 x 7/16 Fil 10, 12, 28	177113	Insulator 28
104701	Screw, 4-40 x 9/32 Fil 16, 19	151629	Nut, 6-40 Lug 10	178861	Resistor, 27 Ohm 28
104807	Washer, Flat 7	151630	Screw, 6-40 x 1/4 Hex 13, 14	178863	Resistor, 3, 300 Ohm 24
107116	Washer, Lock 7, 11, 18, 21	151631	Screw, 6-40 x 5/16 Hex 21	181618	Capacitor, .01 MFD 25
108953	Connector, 3 Pt Receptacle 18	151632	Screw, 6-40 x 3/8 Hex 21	181653	Diode 23, 27
110435	Nut, 4-40 Hex 7	151637	Screw, 4-40 x 1/4 Fil 22	181709	Holder, Fuse 12
110743	Washer, Lock 6, 7, 8, 9, 10, 12, 22, 28	151659	Screw, 6-40 x 1/2 Fil 10	182180	Resistor, 200 Ohm 28
111017	Screw, 6-40 x 5/16 Fil 18, 21	151687	Screw, 4-40 x 7/16 Fil 7	182523	Clamp, 1-3/8" ID Mounting 10
111284	Block, Terminal 12	151689	Screw, 4-40 x 3/4 Fil 7	182531	Clip, Speed 18
112801	Stud 11	151692	Screw, 6-40 x 3/16 Fil 21	182628	Capacitor, 10 MFD 28
114466	Connector, 3 Pt Receptacle 21	151722	Screw, 6-40 x 3/16 Hex 11, 20	183220	Bumper 10
114478	Nut, 10-32-32 Hex 11	151733	Screw, 4-40 x 9/16 Fil 28	192538	Plug, Button 20
115593	Screw, 10-32 Self-Tapping 3	151735	Screw, 4-40 x 5/16 Hex 10, 12	192980	Lug, Terminal 28
115594	Nut, Speed 15	151880	Nut, 4-40 Hex 16	193229	Resistor, 300 Ohm 24
116783	Holder, Fuse 11, 12	151926	Nut, 4-40 Spl 8	193942	Fan, Assembly 18
117535	Washer, Flat 3	152466	Connector, 21 Pt Receptacle 16, 19, 21	194690	Capacitor, 2 MFD 28
117608	Nut, Speed 20	152755	Strap, Terminal 12	195659	Jumper, 3" Black 6
118153	Resistor, 33,000 Ohm 25	152853	Screw, 4-40 x 1/4 Hex 8, 9, 20	196930	Grille 18
118156	Resistor, 56,000 Ohm 24	153492	Connector, 3 Pt Plug 18	196931	Clip 18
118166	Resistor, 56 Meg Ohm 24	153539	Screw, 6-40 x 11/16 Hex 14	197464	Diode 24, 25, 27
118169	Resistor, 1.0 Meg Ohm 23	155023	Switch, DP-DT Toggle 11	198092	Fan 18
118177	Resistor, 22,000 Ohm 24	155614	Cover 16, 19	198561	Bracket, Transformer 20
118180	Resistor, 10,000 Ohm 24				
118185	Resistor, 33,000 Ohm 25				
118189	Resistor, 1.8 Meg Ohm 25				
118197	Resistor, 47,000 Ohm 23				

## NUMERICAL INDEX

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
198650	Key Polarizing 10	322023	Card, Circuit 1, 7, 26	326778	Strap, 5" 16, 19
198670	Screw w/Lockwasher 6-40 x 5/16 Hex 3, 4, 5, 6, 8, 9, 10, 11, 22	322024	Card, Circuit 1, 7, 27	326783	Cable Assembly 19
300024	Resistor, 100 Ohm 28	322025	Card, Circuit 1, 7, 27	327444	Capacitor, 2 MFD 11
300367	Terminal, Ring Type 21	322080	Card, Circuit 1, 2, 25	327793	Resistor, 18 Ohm 24
300370	Capacitor, .01 MFD 27	322417	Card, Circuit 1, 8, 23	327944	Card, Circuit 26
302724	Clamp, Capacitor 10	323147	Resistor, 36,000 Ohm 24	327945	Decalcomania 7
302865	Transistor 24	323148	Resistor, 18,000 Ohm 24	327946	Transistor 25
303160	Card, Circuit 1, 2, 24	323844	Transistor 24	327969	Capacitor, .01 MFD 23
303164	Card, Circuit 1, 2, 24	323845	Transistor 24	327992	Transformer 11
303811	Card, Circuit 1, 2, 10, 25	323847	Sink, Heat 24	327994	Capacitor, 220 MFD 10
304843	Bracket, Connector 21	323849	Coil, 132 Ohm 5	328000	Module 7
305150	Block, Terminal 10	323934	Transistor 24	328001	Socket, Tube 23
310729	Filter, Air 18	323960	Spacer 10	328002	Tube, Readout 23
310730	Support, Filter 18	324142	Connector, 3 Pt Plug 9	328003	Crystal 2, 7
310926	Capacitor, 15 MFD 24, 27	324147	Pad, Transistor Mounting 24	328004	Crystal 2, 7
311056	Grommet, Rubber 19	324149	Modification Kit 1, 13, 14	328005	Crystal 2, 7
311527	Clamp, Cable 16, 19	324150	Container 13	328006	Crystal 2, 7
312385	Capacitor, .1 MFD 6, 24, 25, 26, 27, 28	324151	Cover 13	328007	Crystal 2, 7
312922	Diode 6, 28	324156	Cable Assembly 16	328010	Module 2, 7
315894	Diode 28	324157	Cable Assembly 16	328011	Cable Assembly 7
315930	Transistor 24, 25, 27	324158	Cable Assembly 16	328014	Frame, Inner 7
315939	Capacitor, .002 MFD 26	324159	Cable Assembly 16	328015	Switch, Pushbutton 8
315947	Resistor, 51 Ohm 27	324497	Cable Assembly 21	328016	Switch, SP-DT Toggle 8
315948	Resistor, 100 Ohm 25	324662	Rectifier 28	328017	Plate Assembly, Front 1, 8
315955	Resistor, 2,200 Ohm 24, 25, 26	324677	Modification Kit 1, 18	328018	Window, Polarized 8
315956	Resistor, 2,700 Ohm 27	324678**	Panel, Lower Right 19	328019	Screen 8
315957	Resistor, 3,300 Ohm 24	324679	Bracket, Mounting 18	328020	Label 8
315959	Resistor, 4,700 Ohm 26, 27	324680	Bracket, Mounting 18	328021	Frame, Window 8
315960	Resistor, 5,600 Ohm 27	324681	Cable Assembly 2	328022	Screw w/Washer, 2-56 Spl 7, 27
315972	Resistor, 22,000 Ohm 27	324695	Cable Assembly 16	328024	Cable Assembly 8
315974	Resistor, 300,000 Ohm 27	325906	Cable Assembly 21	328025	Cable Assembly 7
315976	Capacitor, 470 PF 24, 25, 27	325907	Cable Assembly 21	328027	Card, Circuit 23
318801	Resistor, 47,000 Ohm 27	325909	Cable w/Terminals 21	328028	Cable Assembly 8, 23
318815	Capacitor, 5,500 MFD 10	325910	Strap, 10-1/2" Lg 21	328029	Bracket 8
318835	Transistor 28	325911	Jumper, 6-1/2" Lg Green 21	328030	Connector, 16 Pt Plug Type 7
319088	Block, Terminal 12	325912	Cable Assembly 21	328031	Connector, 16 Pt Receptacle Type 6
319089	Insulator, Terminal Board 12	325913	Cable Assembly 21	328042	Card, Circuit 26
319999	Capacitor, .01 MFD 27	324914	Cable Assembly 21	328043	Socket, Crystal 27
320047	Capacitor, 2 MFD 25	325915	Cable Assembly 21	328045	Card, Circuit 27
320048	Capacitor, .5 MFD 27	325937	Connector, 1/2" ID 9, 14	328047	Bracket, Front 8
320410	Terminal, Spade Type 5, 19, 15, 16, 19, 22	325938	Connector, 3/4" 90 Degree 13, 14	328050	Card, Circuit 27
320416	Terminal, Ring Type 6, 10, 11, 16	325939	Connector, 1/2 ID 90 Degree 5, 9, 14	328053	Nut, Toggle 3, 6
320418	Terminal, Ring Type 6, 7, 10, 12, 16, 18, 19, 21	325940	Connector, 1/2 ID 45 Degree 14	328066	Card, Circuit 24
320421	Terminal, Ring Type 16, 19, 21	325941	Conduit, 3/4 ID x 7" Lg 13	329078	Choke 6, 7
321133	Inductor 11	325942	Conduit, 1/2 ID x 7-1/2" Lg 14	329266	Lamp 20
321135	Diode 28	325943	Conduit, 1/2 ID x 18" Lg 14	330515	Rail, Left 17
321145	Transistor 28	325944	Nipple 13, 14	330521**	Cabinet 17
321150	Resistor, 549 Ohm 28	325953	Container 14	330522	Pad, Base 17
321154	Diode 24	325954	Cover 14	330593	Capacitor, .02 MFD 24
321156	Diode 24	325955	Spacer 13, 14	330640	Resistor, 150 Ohm 26, 27
321157	Capacitor, 500 PF 24	325956	Connector, 3/4 ID 13	330642	Resistor, 1.3 Meg Ohm 24
321161	Diode 24	325957	Nut, 1/2-14 Lock 13, 14	330643	Resistor, 56,000 Ohm 24
321201	Screw, 1/4-20 x 1/2 Fil 10	325958	Insulator, Terminal Block 14	330644	Resistor, 390,000 Ohm 24
321207	Strip, Terminal 11	325959	Insulator, Terminal Block 14	330645	Resistor, 560,000 Ohm 27
321248	Cable Assembly 9	325960	Block, Terminal 14	330650	Module, Numbering 1, 7, 8
321261	Transistor 24, 28	325961	Block, Terminal 14	330660	Card, Circuit 25
321264	Capacitor, 2.7 MFD 24	325971	Bracket, Connector 20	330666	Fastener, Wing Type 5
321510	Resistor, 51,000 Ohm 26, 27	326270	Connector, 15 Pt Circuit Card 10	333053	Fuse, 1/16 Amp 12
321545	Resistor, 12,000 Ohm 25, 27	326276	Card, Circuit 25	333140	Holder 20
322022	Card, Circuit 1, 7, 26	326292	Diode 28	333601**	Enclosure, Module 2, 3, 4, 5
		326293	Resistor, 22 Ohm 5	333602	Cable Assembly 6
		326350	Box Assembly, Power 14	333603	Card, Circuit 24
		326373	Cable Assembly 18	333605	Supply Assembly, Power 1, 2, 9, 10, 11, 12
		326760	Cable Assembly 18	333606**	Plate, Front 5
		326771	Cable Assembly 19	333609**	Bracket 3

\*\*Refer to page 1 for finish suffix

## NUMERICAL INDEX

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
333610	Plate Assembly 1, 12	333634	Bracket 2, 22	334536	Card, Circuit 28
333611	Plate, Mounting 9	334178	Reducer 9	334537	Jumper, 8" 10
333614**	Panel, Left Lower 4	334179	Conduit, 5/8 ID x 28" Lg 9	334541**	Modification Kit 2
333615**	Bracket 3	334180	Conduit, 5/8 ID x 21" Lg 5	334542**	Modification Kit 2
333616	Chassis 6	334182	Cable w/Terminal 11	334543**	Modification Kit 2
333617**	Container 3, 4, 5, 6	334183	Relay 5	334544**	Modification Kit 2
333618**	Cover, Rear 5	334185	Cable w/Terminal 11	334545**	Modification Kit 2
333619**	Bracket 4	334186	Label 9	336002	Jumper, 6-1/2" Blue 28
333620	Card, Circuit 1, 10, 28	334422	Bushing 28	336004	Jumper, 6-1/2" Orange 28
333621	Plate Assembly 1, 11	334526	Sink, Heat 28	336005	Jumper, 6-1/2" Yellow 28
333622	Cable Assembly 5, 6, 9	334527	Plate 12	336010	Cap, Protective 2, 21
333623	Container, Inner 10	334528	Bracket 11	336011**	Enclosure & Power Supply 1, 3, 5, 9
333625	Container, Outer 9, 10, 11	334531	Bracket, Door 4	336014**	Modification Kit 2
333627	Cover, Outer 9	334532	Plate, Mounting 5	336015**	Modification Kit 2
333628	Shaft 4	334533	Cable Assembly 5	336016**	Modification Kit 2
333630	Cable Assembly 10	334534	Cable Assembly 22	336017	Modification Kit 2
333631	Cable Assembly 9	334535	Insulator, Terminal Block 10	336018**	Modification Kit 2
333633	Cable Assembly 2, 22				

\*\*Refer to page 1 for finish suffix