

DATA SPEED TYPES 1 AND 2 TAPE RECEIVER CABINET (AC)  
AND  
MODULES (TRD AND TRSC)

PARTS

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PAINT FINISH COLOR CODE CHART				
COLOR	Finish Suffixes			
	Wrinkle Finish	Smooth Finish	Textured Vinyl	Smooth Vinyl
Black	AA(37)	BA(34)	GA(45)	HB(68) HF(46)
Black, High Gloss	AD(38)			
Brown, Dark	AC(39)			
Brown, Light	AB(40)			
Gray, Green	AB(40)			
Gray, Light	AB(40)			
Gray, Olive	AB(40)	GA(45)		
Green, Gray	AB(40)			

The double asterisk (\*\*) denotes a painted part.  
Suffix to be applied following the part number.  
Number in parentheses indicates Bell System Code.

COLOR CODE CHART FOR MULT-COLOR APPARATUS		
Color Code	Basic Color	Finish Suffixes
MA	BEIGE	HC and HG
MB	GRAY	HB and HE
MC	GREEN	HD and HB
MH	GRAY	BJ and EJ

The part identification information contained in the following change notices have been incorporated in this issue.

TCN	#510	#547	#612	#702	#741
-----	------	------	------	------	------

NOTE:

When ordering parts from this section, prefix each number with the letters TP.

UNIT DESCRIPTION	TELETYPE CODE	BELL SYSTEM CODE
Receiving Cabinet	AC297**	1B**
Receiving Signal Converter	TRSC500BZ TRSC800BZ	1B 2B
Receiving Distributor	TRD603BZ TRD804BZ	1B 2B
Power Supply	177149BZ	1A

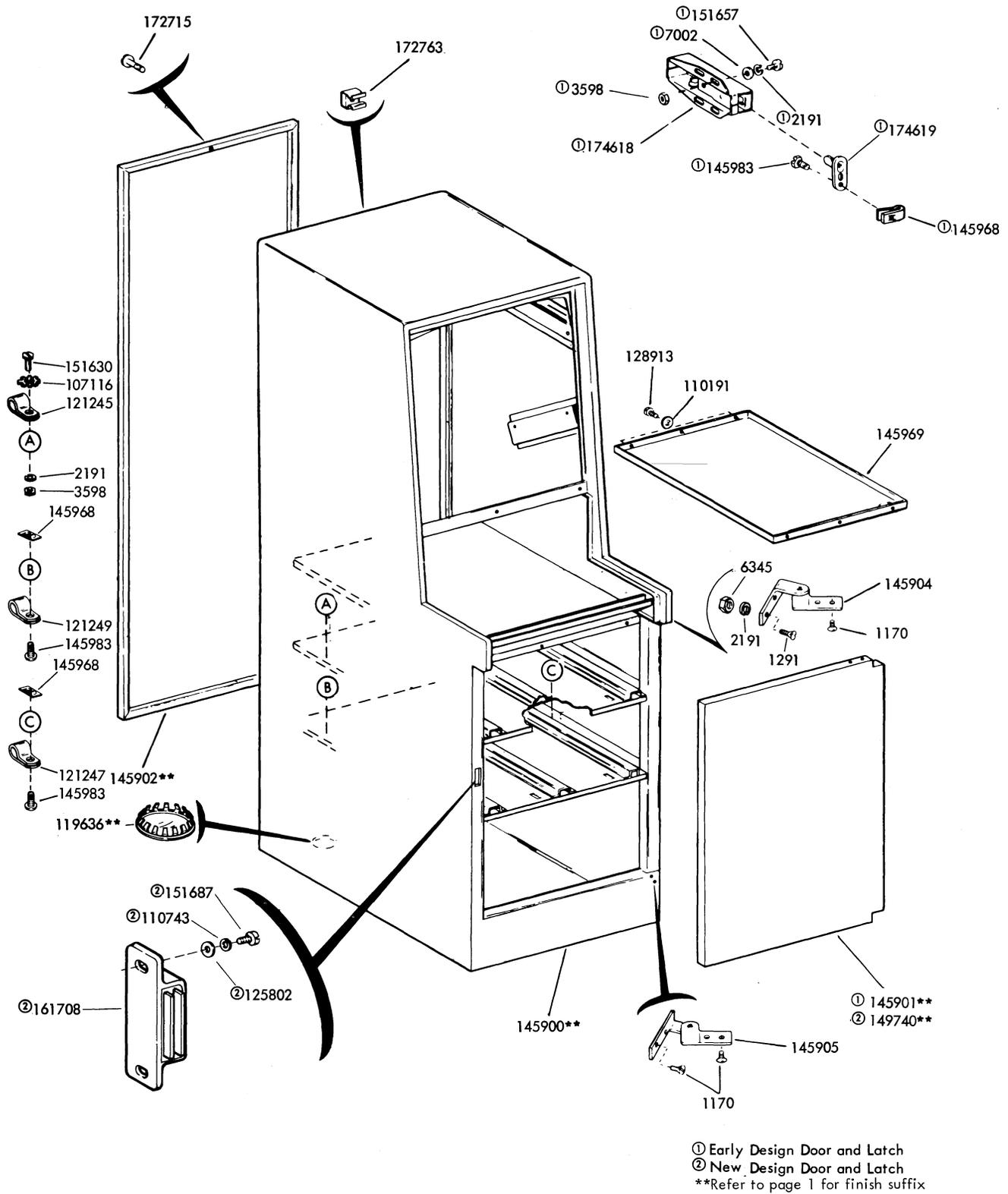


FIGURE 1. CABINET FRAME





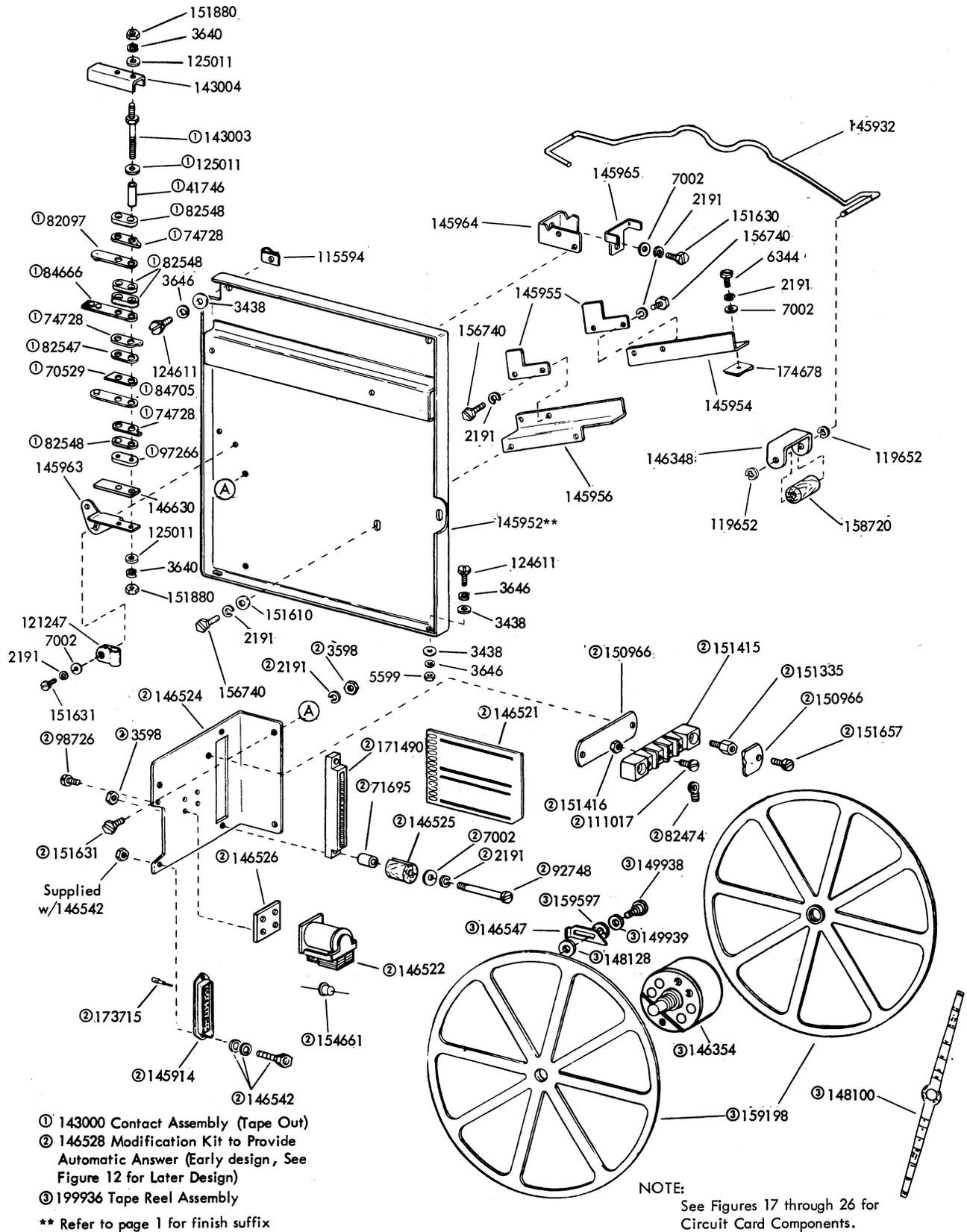


FIGURE 4. TAPE FEED-OUT COMPONENTS



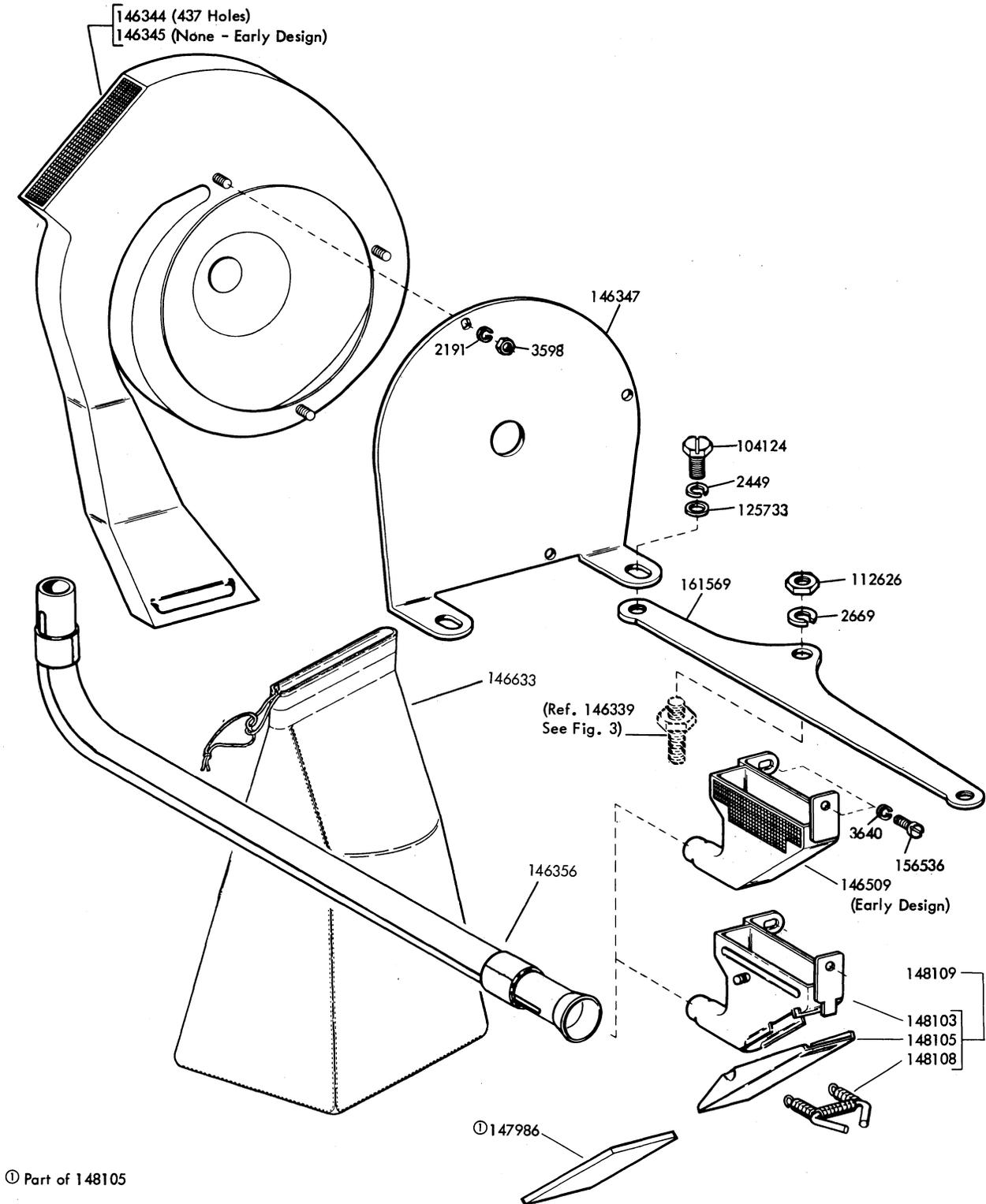
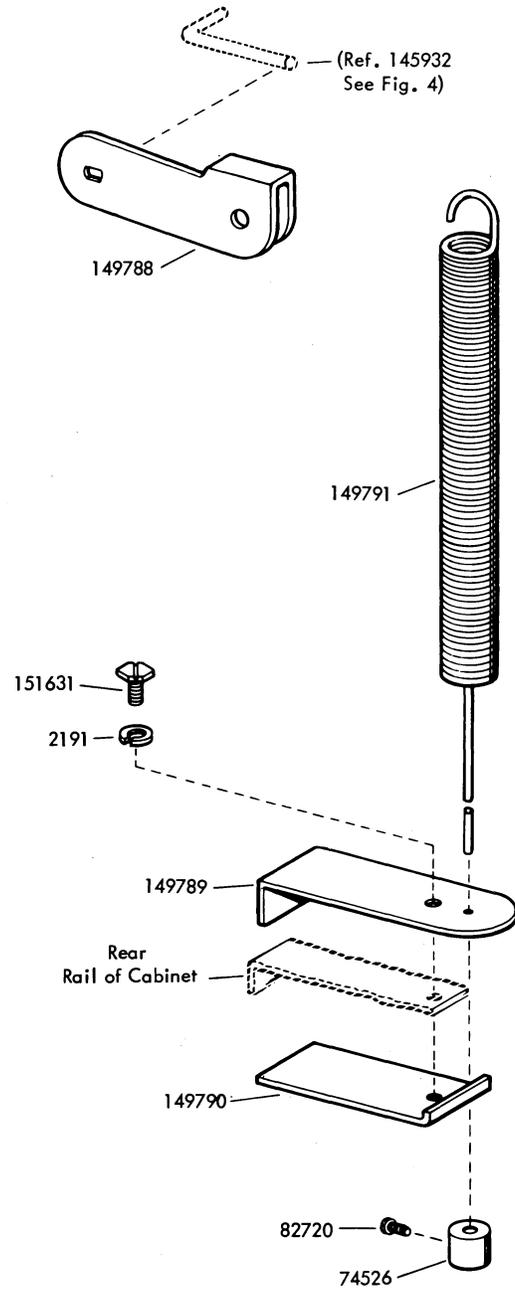
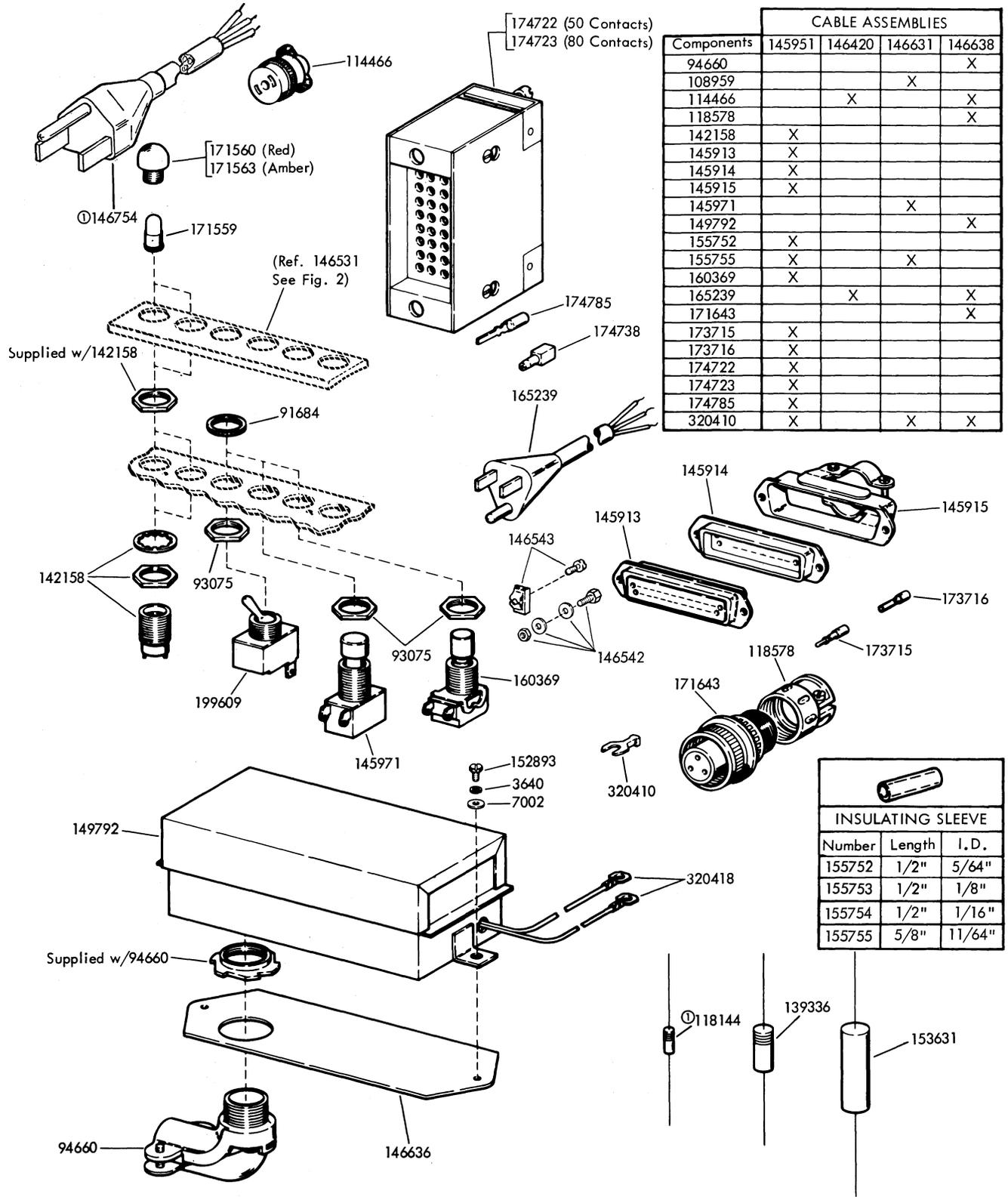


FIGURE 6. CHAD BLOWER COMPONENTS



Specification 503215

FIGURE 7. 149787 MODIFICATION KIT TO ADD BRAKE TO SUPPLY ARM ON CABINET



Ⓞ Part of 199553 and 199556 Cable Assemblies  
(See Fig. 2 for other Components)

FIGURE 8. CABLES AND COMPONENTS

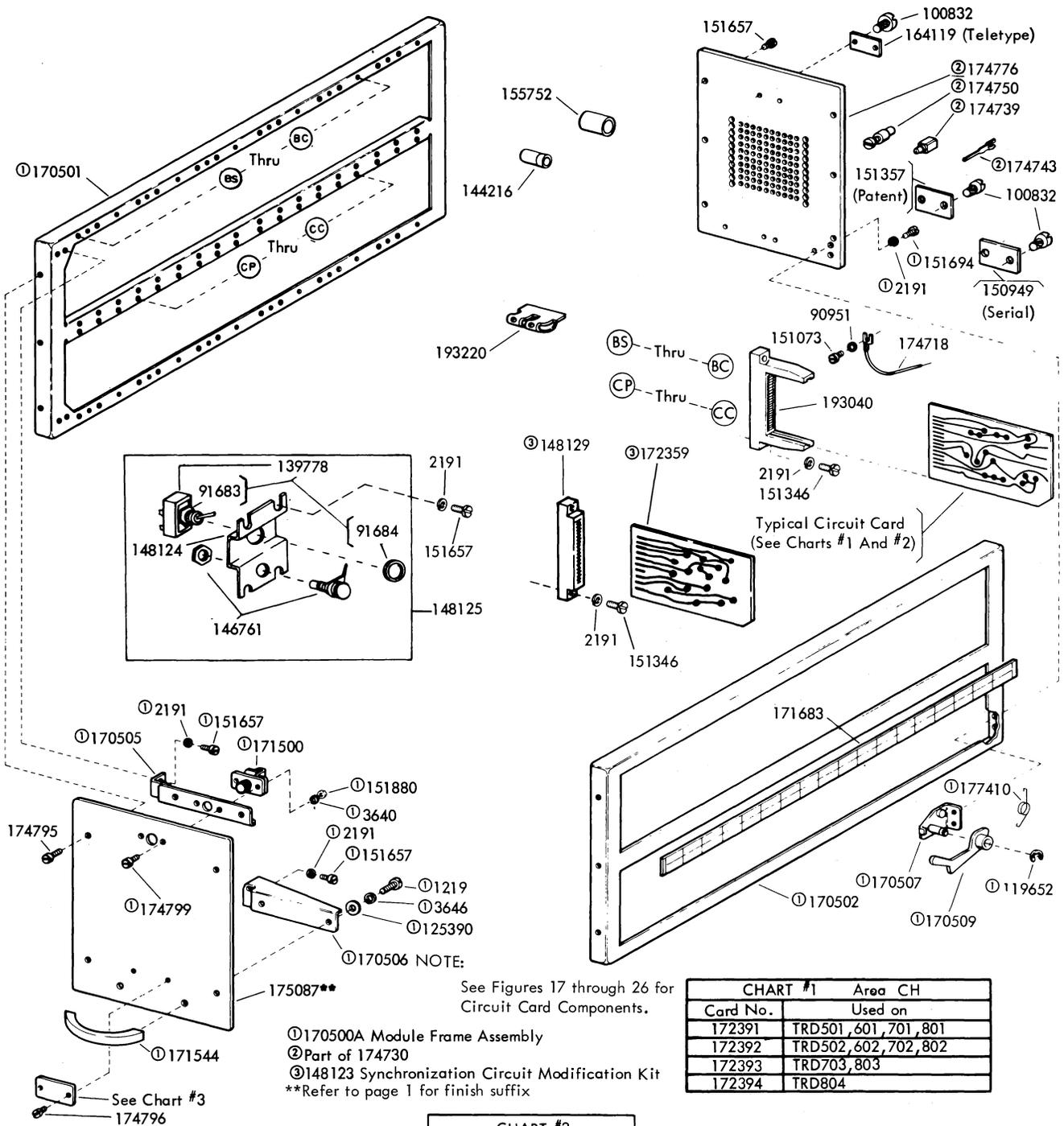


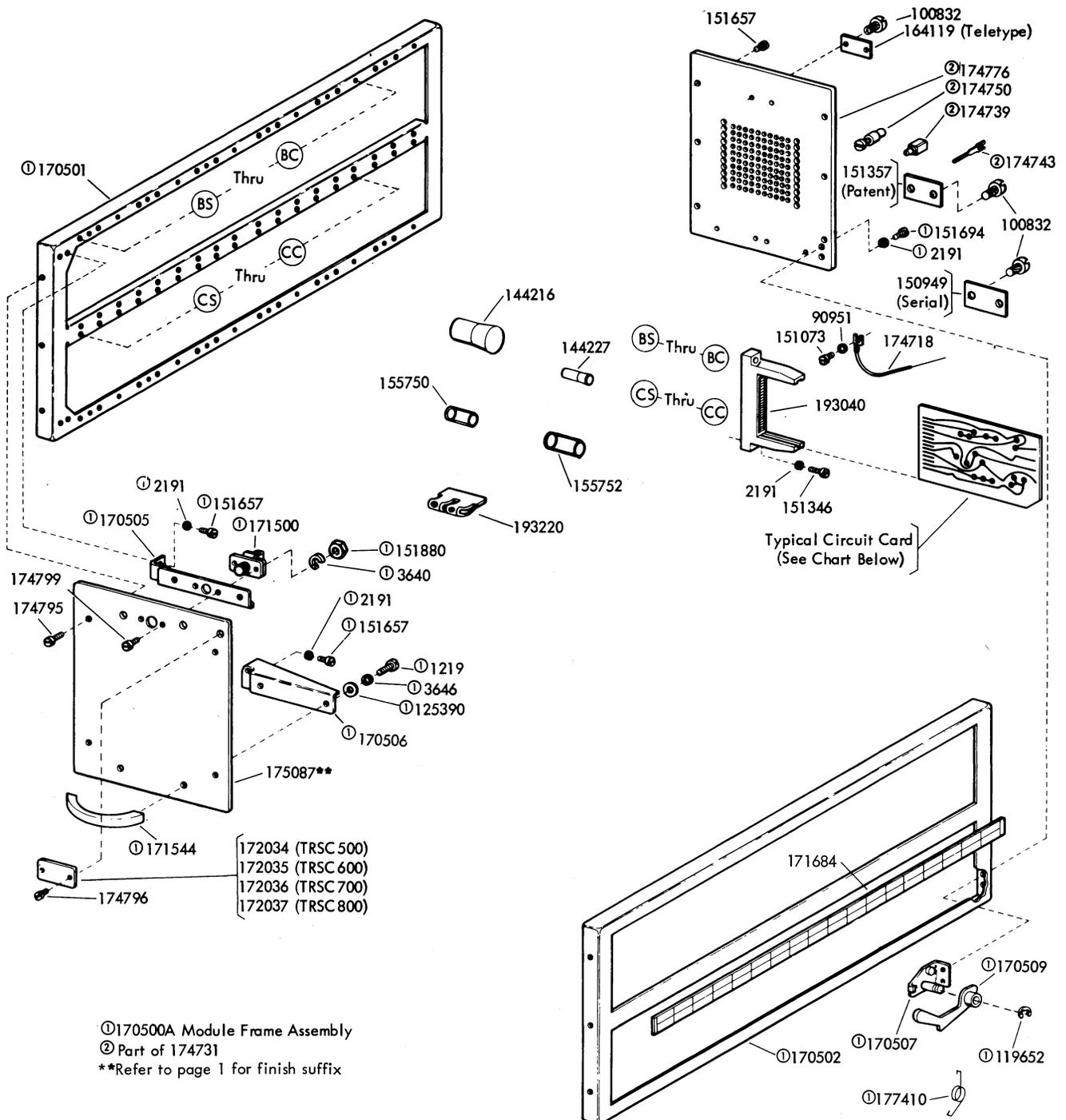
CHART #1		Area	CH
Card No.	Used on		
172391	TRD501, 601, 701, 801		
172392	TRD502, 602, 702, 802		
172393	TRD703, 803		
172394	TRD804		

CHART #2																	
Area	BS	BR	BQ	BP	BN	BM	BL	BK	BJ	BH	BG	BF	BE	BD	BC	BB	BA
Designation	Z324	Z303	Z313	Z314	Z315	Z316	Z317	Z318	Z319	Z320	Z310	Z307	Z306	Z308	Z309		
Card No.	172359	172401	172359	172359	172359	172359	172359	172359	172359	172359	172359	172469	172395	172347	172333		
Area	CS	CR	CQ	CP	CN	CM	CL	CK	CJ	CH	CG	CF	CE	CD	CC	CB	CA
Designation				Z301	Z321	Z305	Z302		Z304	Z311		Z312		Z322	Z323		
Card No.				172374		172473	172326		172490			172420		172363	172363		

↑ 172365 (EC365) or 172475 (EC475) ← See chart #1

CHART #3 Identification Plate												
TRD Unit	501	502	601	602	603	701	702	703	801	802	803	804
Plate No.	172021	172022	172023	172024	172039	172025	172026	172027	172028	172029	172030	172031

FIGURE 9. RECEIVING DISTRIBUTOR MODULE (TRD)



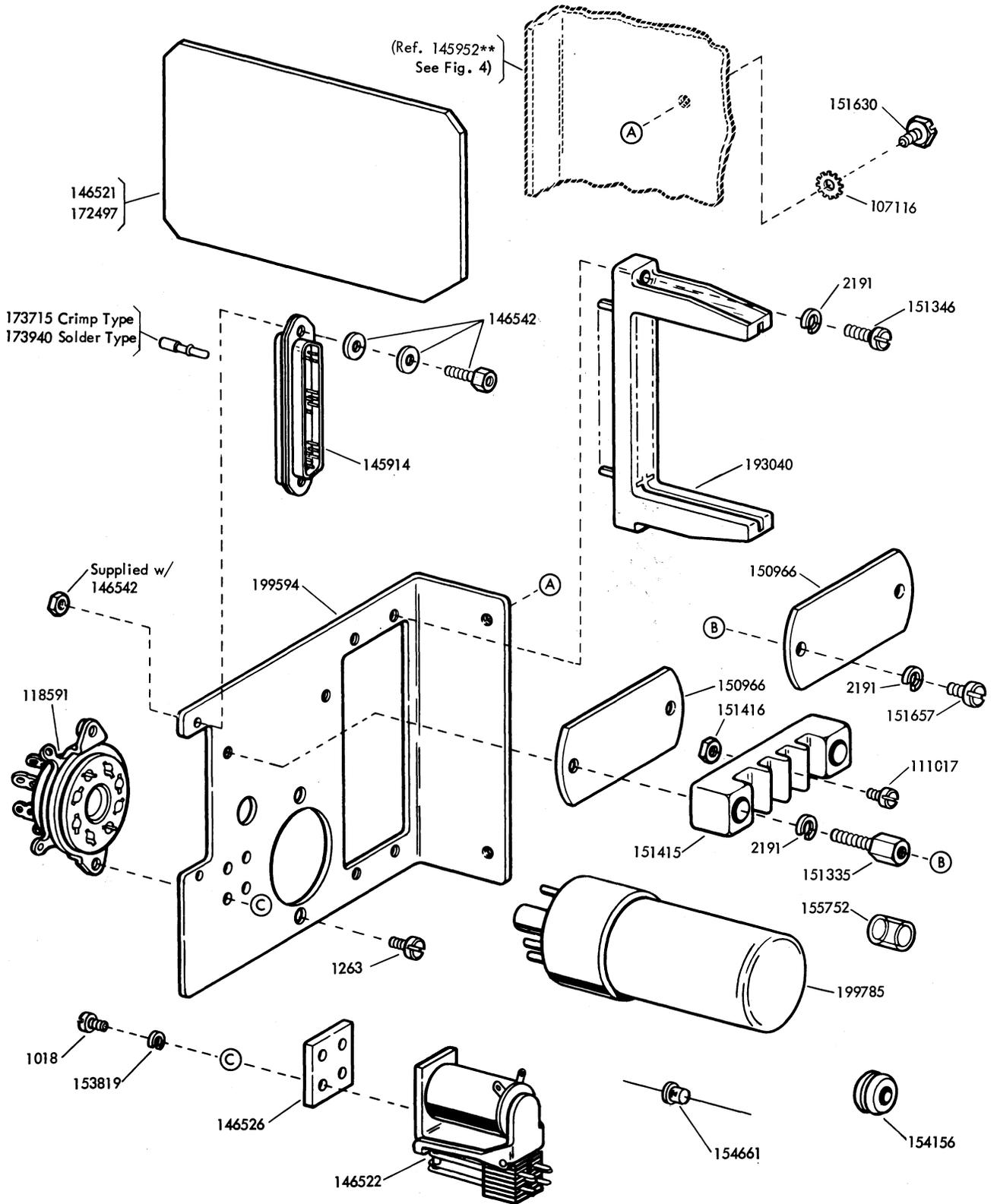
①170500A Module Frame Assembly  
 ② Part of 174731  
 \*\*Refer to page 1 for finish suffix

NOTE:  
 See Figures 17 through 26 for  
 Circuit Card Components.

Area	BS	BR	BQ	BP	BN	BM	BL	BK	BJ	BH	BG	BF	BE	BD	BC	BB	BA	
Designation	Z 418	Z 417	Z 416	Z 415	Z 414	Z 413	Z 412	Z 411	Z 403	Z 407	Z 406	Z 408	Z 405		Z 410			
Card No.	172359	172359	172359	172359	172359	172359	172359	172359	172359	172469	172351	172347	172322		172333			
Area	CS	CR	CQ	CP	CN	CM	CL	CK	CJ	CH	CG	CF	CE	CD	CC	CB	CA	
Designation	Z 427	Z 426	Z 425	Z 424	Z 423	Z 422	Z 421	Z 420	Z 419	Z 409	Z 402	Z 401	Z 429	Z 404	Z 428			
Card No.	172396	172396	172396	172396	172396	172396	172396	172396	172396	172323	172375	172355	172352	172431	172363			

FIGURE 10. RECEIVING SIGNAL CONVERTER MODULE (TRSC)





NOTE:  
See Figures 17 through 26 for  
Circuit Card Components.

\*\*Refer to page 1 for finish suffix

FIGURE 12. 199593 MODIFICATION KIT TO PROVIDE AUTOMATIC ANSWER





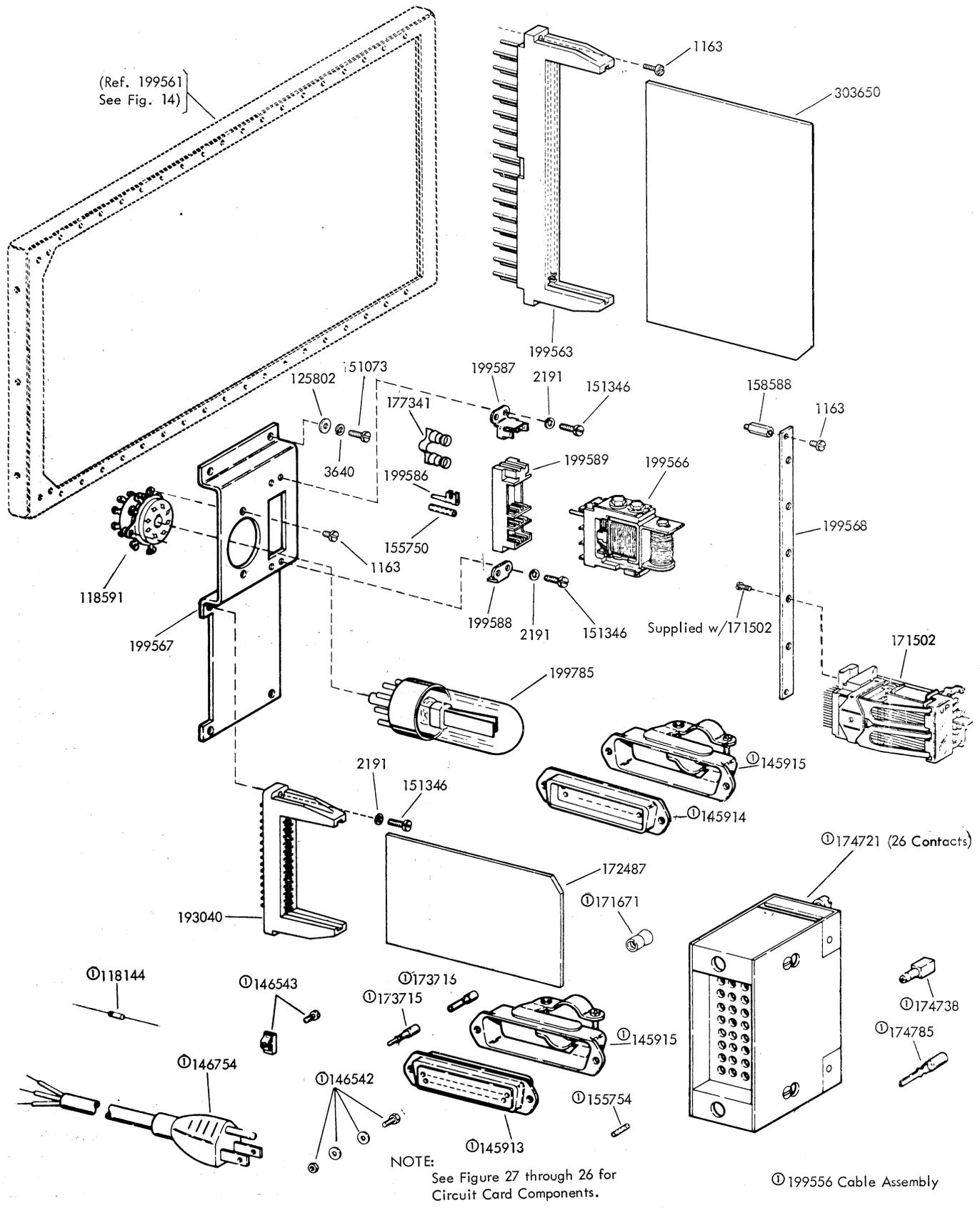
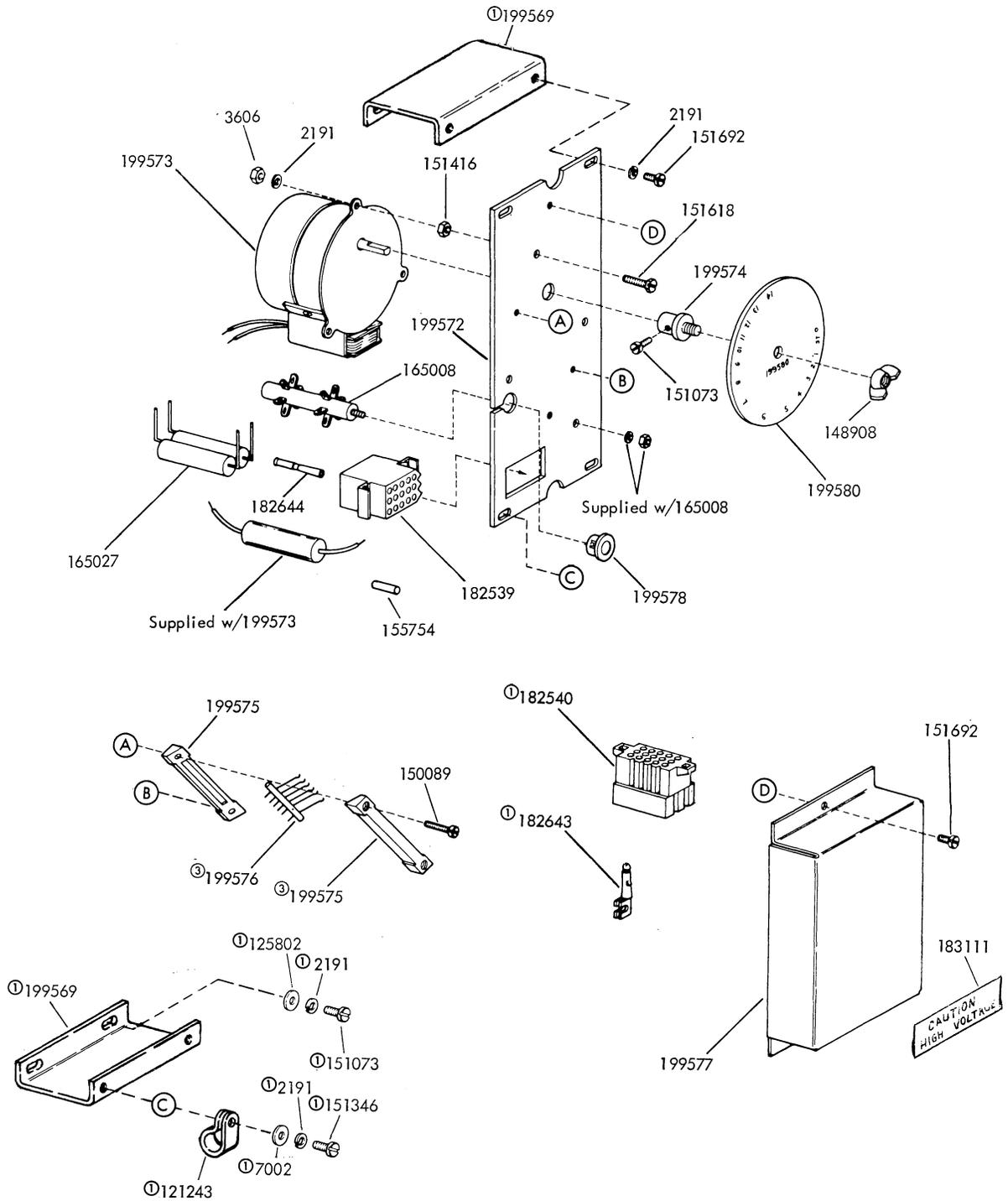


FIGURE 15. 199555\*\* PROTECTED UNATTENDED TRANSMITTER RECOGNIZER MODULE (CONTINUED)



① Not Part of 199570

FIGURE 16. 199570 SIGNAL GENERATOR ASSEMBLY



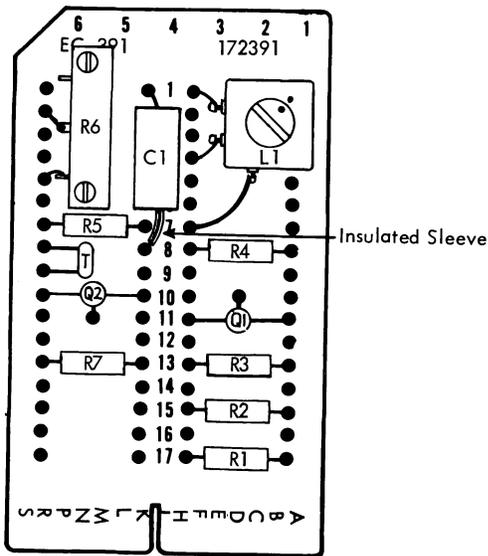




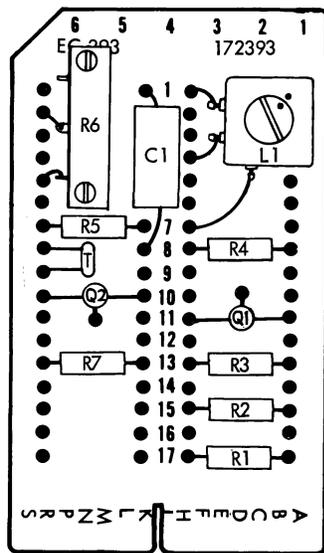








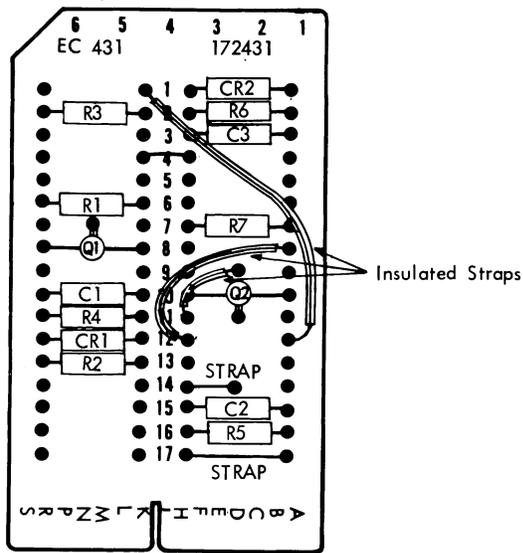
Ref Design	Part Number	Total Qty	Description
R1	118147	1	Resistor, 6800 Ohm Fixed
R2	129856	2	Resistor, 150 Ohm Fixed
R3			Same as R2
R4	137440	1	Resistor, 1000 Ohm Fixed
R5	137442	1	Resistor, 1500 Ohm Fixed
R6	171570	1	Resistor, 5000 Ohm
R7	129852	1	Resistor, 2200 Ohm Fixed
T	171830	1	Thermister, 10,000 Ohm
C1	171829	1	Capacitor, .15 MFD
L1	171686	1	Adjustroid .475H
Q1	177105	2	Transistor, P-22
Q2			Same as Q1
	172047	1	Card, Circuit
	121018	2	Nut, 4-40 Hex
	90951	2	Washer, Lock
	1178	2	Screw, 2-56 x 7/16 Fil
	110446	2	Nut, 2-56 Hex
	144495	2	Pad, Transistor Mounting



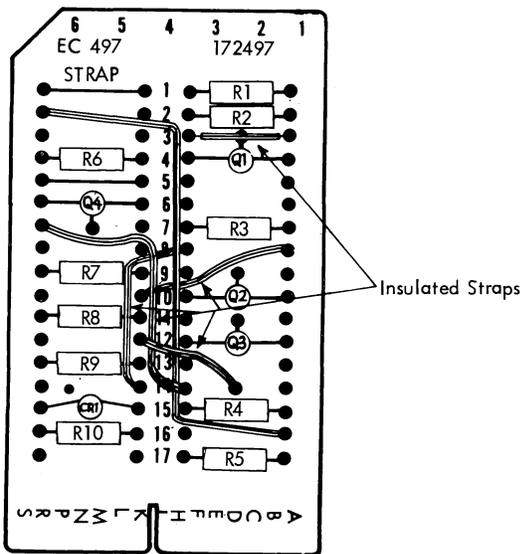
Ref Design	Part Number	Total Qty	Description
R1	118147	1	Resistor, 6800 Ohm Fixed
R2	118724	1	Resistor, 220 Ohm Fixed
R3	129856	1	Resistor, 150 Ohm Fixed
R4	137440	1	Resistor, 1000 Ohm Fixed
R5	137442	1	Resistor, 1500 Ohm Fixed
R6	171570	1	Resistor, 5000 Ohm
R7	129852	1	Resistor, 2200 Ohm Fixed
T	171830	1	Thermister, 10,000 Ohm
C1	171828	1	Capacitor, .60 MFD
L1	171686	1	Adjustroid, .475H
Q1	177105	2	Transistor, P-22
Q2			Same as Q1
	172047	1	Card, Circuit
	121018	2	Nut, 4-40 Hex
	90951	2	Washer, Lock
	1178	2	Screw, 2-56 x 7/16 Fil
	110446	2	Nut, 2-56 Hex
	144495	2	Pad, Transistor Mounting

FIGURE 23. 172391 AND 172393 CIRCUIT CARDS



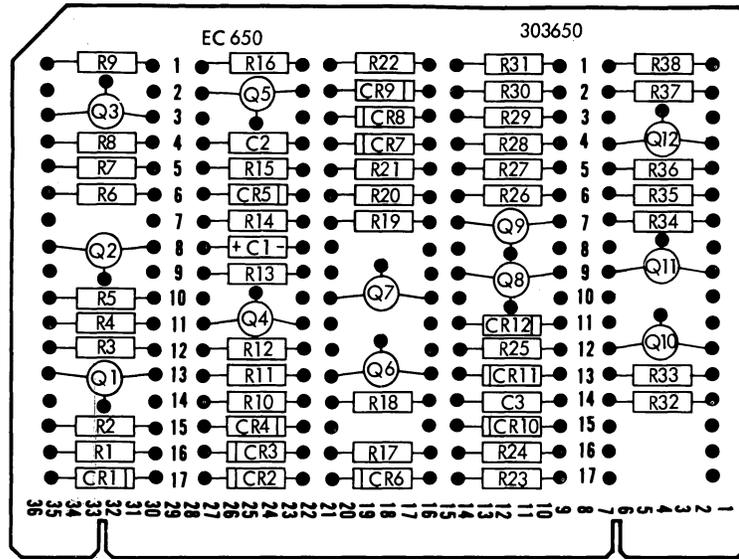


Ref Design	Part Number	Total Qty	Description
C1	171566	1	Capacitor, .01 MFD
C2	171567	1	Capacitor, .005 MFD
C3	171585	1	Capacitor, .22 MFD
CR1	177108	2	Diode, D-2
CR2			Same as CR1
R1	118144	1	Resistor, 2700 Ohm Fixed
R2	137441	1	Resistor, 1200 Ohm Fixed
R3	129852	1	Resistor, 2200 Ohm Fixed
R4	118180	1	Resistor, 10,000 Ohm Fixed
R5	118186	1	Resistor, 5,600 Ohm Fixed
R6	137440	1	Resistor, 1000 Ohm Fixed
R7	118177	1	Resistor, 22,000 Ohm Fixed
Q1	177106	1	Transistor (NPN) N-33
Q2	177105	1	Transistor (PNP) P-22
	172067	1	Card, Circuit
	144495	2	Pad, Transistor Mounting



Ref Design	Part Number	Total Qty	Description
R1	118177	2	Resistor, 22,000 Ohm Fixed
R2			Same as R1
R3	118150	1	Resistor, 15,000 Ohm Fixed
R4	137438	1	Resistor, 100 Ohm Fixed
R5	118166	1	Resistor, 56 Meg Ohm Fixed
R6	129851	2	Resistor, 3300 Ohm Fixed
R7	118149	1	Resistor, 12,000 Ohm Fixed
R8	118153	1	Resistor, 33,000 Ohm Fixed
R9			Same as R6
R10	199591	1	Resistor, 180 Ohm Fixed
CR1	199590	1	Diode
Q1	177105	2	Transistor, P-22
Q2			Same as Q1
Q3	177224	1	Transistor, P-41
Q4	177422	1	Transistor, N-39
	172067	1	Card, Circuit
	144495	4	Pad, Transistor Mounting

FIGURE 25. 172431 AND 172497 CIRCUIT CARDS



Reference Designation	Teletype Part No.	Total Qty.	Name and Description
C1	179529	1	Capacitor, 1.0 MFD
C2	171567	1	Capacitor, .005 MFD
C3	177332	1	Capacitor, .002 MFD
CR1	177611	9	Diode
CR2			Same as CR1
CR3			Same as CR1
CR4			Same as CR1
CR5			Same as CR1
CR6	177108	3	Diode, D2
CR7			Same as CR6
CR8			Same as CR6
CR9			Same as CR1
CR10			Same as CR1
CR11			Same as CR1
CR12			Same as CR1
R1	118146	2	Resistor, 4700 Ohm Fixed
R2	118150	2	Resistor, 15,000 Ohm Fixed
R3	137441	6	Resistor, 1200 Ohm Fixed
R4	129852	2	Resistor, 2200 Ohm Fixed
R5	118147	3	Resistor, 6800 Ohm Fixed
R6	118146		Same as R1
R7	118150		Same as R2
R8	137441		Same as R3
R9	118186	2	Resistor, 5,600 Ohm Fixed
R10	137441		Same as R3
R11	137441		Same as R3
R12	137602	2	Resistor, 470 Ohm Fixed
R13	137438	1	Resistor, 100 Ohm Fixed
R14	118157	1	Resistor, 68,000 Ohm Fixed
R15	137441		Same as R3
R16	118151	2	Resistor, 18,000 Ohm Fixed
R17	129851	4	Resistor, 3300 Ohm Fixed
R18	129851		Same as R17
R19	118177	4	Resistor, 22,000 Ohm Fixed

Reference Designation	Teletype Part No.	Total Qty.	Name and Description
R20	118177	1	Same as R19
R21	129851		Same as R17
R22	118177		Same as R19
R23	129851		Same as R17
R24	118147		Same as R5
R25	118177		Same as R19
R26	118728	1	Resistor, 3900 Ohm Fixed
R27	118147		Same as R5
R28	129852		Same as R4
R29	118186		Same as R9
R30	137441		Same as R3
R31	118151		Same as R16
R32	137443	2	Resistor, 1800 Ohm Fixed
R33	118149	1	Resistor, 12,000 Ohm Fixed
R34	137443		Same as R32
R35	118724	1	Resistor, 220 Ohm Fixed
R36	137602		Same as R12
R37	118148	1	Resistor, 10,000 Ohm Fixed
R38	118144	1	Resistor, 27,000 Ohm Fixed
Q1	177105	7	Transistor, P22
Q2	177224	4	Transistor, P41
Q3	177105		Same as Q1
Q4	177610	1	Transistor, Unijunction
Q5	177105		Same as Q1
Q6	177105		Same as Q1
Q7	177105		Same as Q1
Q8	177224		Same as Q2
Q9	177105		Same as Q1
Q10	177224		Same as Q2
Q11	177224		Same as Q2
Q12	177105		Same as Q1
EC	199559	1	Card, Circuit
	144495	1	Pad, Transistor Mounting

FIGURE 26. 303650 CIRCUIT CARD

## NUMERICAL INDEX

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
1018	Screw, 3-48 x 5/16 Fil 13	110191	Washer, Lock 2,4	137440	Resistor, 1000 Ohm Fixed 19,20,24,26
1163	Screw, 4-40 x 3/16 Fil 14,16	110446	Nut, 2-56 Hex 24,25	137441	Resistor, 1200 Ohm Fixed 18,19,20,21,22,25,26,27
1170	Screw, 6-32 x 5/16 Flat 2	110743	Washer, Lock 2,4	137442	Resistor, 1,500 Ohm 18,21,24,25
1178	Screw, 2-56 x 7/16 Fil 24,25	111017	Screw, 6-40 x 5/16 Fil 3,4,5,13	137443	Resistor, 1,800 Ohm 27
1219	Screw, 8-32 x 5/16 Fil 10,11,14,15,16	112626	Nut, 10-32 Hex 4,7	137601	Resistor, 68 Ohm Fixed 19,25
1263	Screw, 6-32 x 1/4 Fil 13	114466	Connector, 3 Pt Receptacle 9	137602	Resistor, 470 Ohm 27
1264	Screw, 10-32 x 1/2 Flat 4	114467	Connector, 3 Pt Plug 3	139336	Resistor, 150 Ohm 9
1291	Screw, 6-32 x 3/4 Flat 2	115594	Nut, Speed 5	139778	Switch, DP-DT Toggle 10
2191	Washer, Lock 2 to 8,10 to 17	116783	Holder, Fuse 3,12	142158	Holder, Lamp 9
2449	Washer, Lock 7	117366	Jumper, 8-1/2" Green 6	142964	Board, Terminal 4
2669	Washer, Lock 4,7	118144	Resistor, 2,700 Ohm 9,16,18,21,22,25 to 27	143000	Contact Assembly, Tape Out 5
3438	Washer, Flat 4,5	118146	Resistor, 4700 Ohm Fixed 19,20,25,27	143003	Stud 5
3598	Nut, 6-40 Hex 2 to 7	118147	Resistor, 6,800 Ohm 21,24,25,27	143004	Cover, Insulating 5
3606	Nut, 6-40 Hex 17	118148	Resistor, 10,000 Ohm 27	143656	Resistor, 51 Ohm 21,22
3640	Washer, Lock 5,6,7,9,10,11,14 to 16	118149	Resistor, 12,000 Ohm 23,26,27	143667	Resistor, 3,900 Ohm 21
3642	Washer, Flat 4	118150	Resistor, 15,000 Ohm 26,27	144216	Guide, Spacing Pin 10,11
3646	Washer, Lock 4,5,6,10,11,12,14,15	118151	Resistor, 18,000 Ohm 27	144227	Connector, Black Insulated 11
5599	Nut, 8-32 Hex 4,5,6	118153	Resistor, 33,000 Ohm 26	144495	Pad, Transistor Mounting 18,19,20,21,22,24 to 27
6032	Screw, 8-32 x 7/16 Fil 12	118157	Resistor, 68,000 Ohm Fixed 27	145900**	Shell, Cabinet 2,3
6344	Screw, 6-32 x 11/32 Hex 5	118166	Resistor, 56 Meg Ohm 26	145901**	Door, Front 2
6345	Nut, 6-32 Hex 2	118177	Resistor, 22,000 Ohm 18,21,22,25,26,27	145902**	Panel, Rear 2
7002	Washer, Flat 2,4,5,6,9,17	118180	Resistor, 10,000 Ohm 18,21,25,26	145903	Mount, Vibration 6
35551	Screw, 10-32 x 3/8 Flat 4	118186	Resistor, 5,600 Ohm Fixed 18,19,22,26,27	145904	Hinge, Right 2
41746	Bushing, Insulating 5	118578	Clamp, 3/4 ID Cable 9	145905	Hinge, Left 2
42827	Screw, 3-48 x 1/4 Fil 4	118589	Switch, Black Pushbutton 3	145906	Panel, Service 3
70529	Stiffener 5	118591	Socket, Tube 13,16	145907**	Panel, Control 3
71695	Spacer, x250" Thk 5	118724	Resistor, 220 Ohm 24,27	145908	Plate, Name 3
74526	Collar 8	118725	Resistor, 270 Ohm Fixed 19	145909	Channel, Left 4
74728	Terminal, Contact 5	118728	Resistor, 3,900 Ohm 27	145910	Channel, Right 4
75750	Washer, Insulating 4	119636**	Button, Plug 2	145913	Connector, 25 Pt Receptacle Type 9,14,16
76099	Washer, Flat 4	119648	Ring, Retaining 6	145914	Connector, 25 Pt Plug Type 5,9,13,14,16
77902	Screw, 6-40 x 2-3/8 Rd 4	119649	Ring, Retaining 6	145915	Clamp, Cable 9,14,16
78044	Post, Spring 6	119652	Ring, Retaining 5,6,10,11,12,14,15	145917	Arm, Tape 6
82097	Spring, Contact 5	119653	Ring, Retaining 6	145930	Hub Assembly 6
82547	Insulator, .094" Thk 5	120124	Resistor, 33,000 Ohm 12	145932	Arm, Tape Brake 5,8
82548	Insulator, .062" Thk 5	120139	Fuse, 1 Amp 12	145938**	Panel, Front 4,6
82720	Screw, 6-40 Set 8	120165	Fuse, 10 Amp 3	145941	Tray, Chad Bag 4
82832	Washer, Lock 4	120166	Fuse, 2 Amp 12	145942	Box, Chad 4
82861	Spring 6	121018	Nut, 4-40 Hex 24,25	145943	Frame, Inner 4
83960	Washer, Flat 4	121243	Clamp, 3/16 ID Cable 17	145946**	Cover w/Pad 3
84666	Spring, Contact 5	121244	Clamp, 1/4 ID Cable 4	145948	Brace 4
84705	Spring, Contact 5	121245	Clamp, 5/16 ID Cable 2,6	145949	Space 4
89897	Nut, 10-32 Hex 4	121247	Clamp, 7/16 ID Cable 2,5	145950	Bracket, Vibration Mount 4
90951	Washer, Lock 6,10,11,24,25	121249	Clamp, 5/8 ID Cable 2	145951	Cable Assembly 9
91228	Strap, 2-1/2" Braided 4	124611	Screw, 8-32 x 3/8 Hex 4,5	145952**	Panel, Divider 5,13
91683	Nut, 15/32-32 Hex 3,10,12	124878	Washer, Lock 4	145954	Slide 5
91684	Nut, 15/32-32 Ring 9,10,12	125011	Washer, Flat 5	145955	Plate, Bearing 5
92748	Screw, 6-40 x 1-7/16 Fil 5	125390	Washer, Flat 10,11,14,15	145956	Slide 5
93075	Ring, Shoulder 9	125733	Washer, Flat 7	145960	Lever w/Hub 6
94660	Connector 9	125802	Washer, Flat 2,4,16,17	145963	Bracket, Contact Mounting 5
97193	Jumper, 12-1/2" Black 4	128913	Screw, 8-32 Self-Tapping 2	145964	Bracket, Brake Arm Mounting 5
97266	Plate, Clamp 5	129850	Resistor, 680 Ohm 25	145965	Bracket, Brake Retaining 5
97818	Roller, Tape 6	129851	Resistor, 3,300 Ohm 18,20,21,22,23,26,27	145967**	Panel 3
98718	Washer, Flat 4,6	129852	Resistor, 2,200 Ohm 24 to 27	145968	Nut, #6 Speed 2
98726	Screw, 3-48 x 1/4 Fil 5	129856	Resistor, 150 Ohm 24,25	145969	Rack, Mounting 2
98819	Knob 12	135637	Resistor, 25 Ohm 4	145971	Switch, Push 9
100832	Screw, #0 x 3/16 Drive 10,11,14,15	137438	Resistor, 100 Ohm Fixed 19,20,26,27	145973	Guide, Tape 4
101385	Spring 6			145975	Roller, Tape Guide 4
104124	Screw, 1/4-32 x 11/32 Hex 7			145976	Motor, 115V A.C. 6
105803	Switch, DP-ST Toggle 12			145977	Bracket w/Hub 6
107116	Washer, Lock 2,3,4,5,6,13			145979	Guide, Tape 4
107364	Screw, 6-32 x 3/8 Fil 3				
108959	Switch, DP-DT Toggle 9				

\*\*Refer to page 1 for finish suffix

## NUMERICAL INDEX (Continued)

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
145982	Detent, Tape Reel 6	149791	Spring, Tape Arm 8	161708	Latch, Magnetic 2,4
145983	Screw, #6 Self-Tapping 2	149792	Suppressor, Noise 9	161711	Block, Guide 4
146333	Plate, Base 4	149938	Screw, 4-40 Shoulder 5	161716	Block, Support 4
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