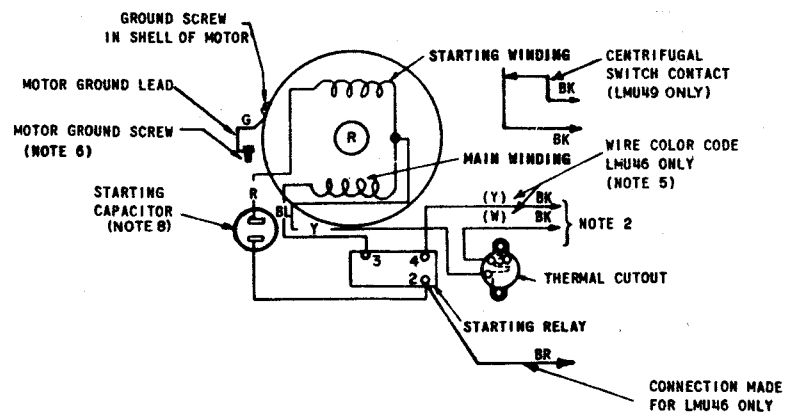
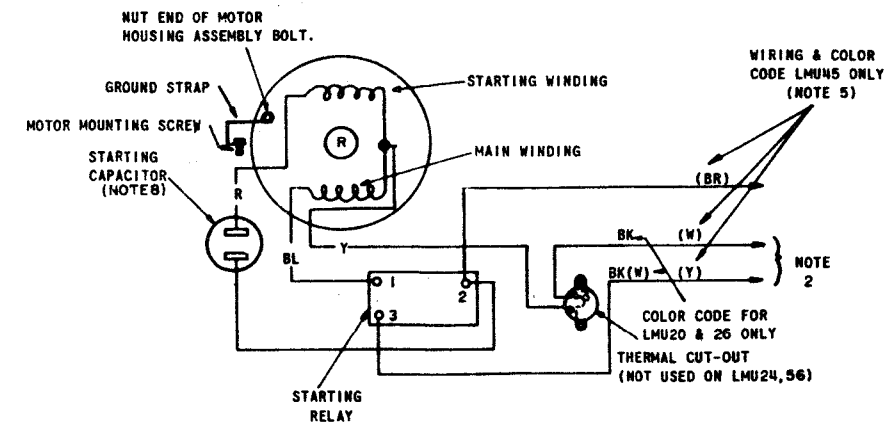


SYNCHRONOUS MOTOR UNITS

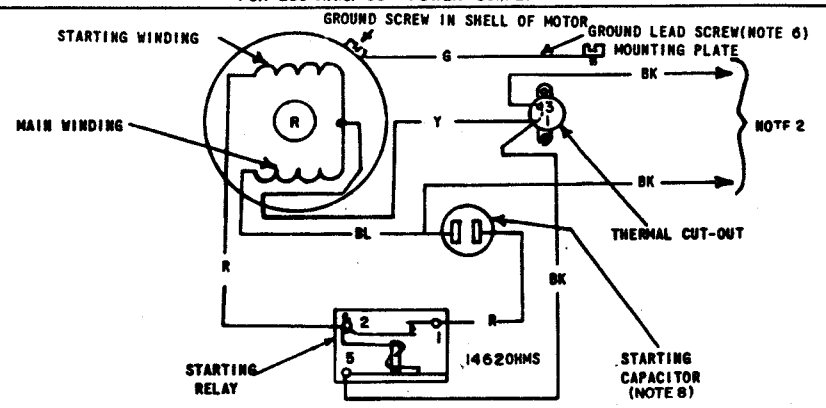
NO.	NOTES														
1.	SYNCHRONOUS MOTOR OPERATES ON REGULATED FREQUENCY ($\pm 0.75\%$) MAXIMUM AC ONLY.														
2.	CONNECT EITHER WIRE TO DESIGNATED TERMINALS OF UNIT TERMINAL BLOCK, PER WIRING DIAGRAM OF ASSOCIATED UNIT														
3.	MOTOR LEADS OF SAME COLOR ARE INTERCHANGEABLE.														
4.	EXTERNAL NOISE SUPPRESSION NETWORK CONSISTING OF 100 OHM, 1/2 WATT RESISTOR IN SERIES WITH 0.25 MFD 1K V CAPACITOR CONNECTED ACROSS YELLOW AND BROWN WIRES. (FOR LMU45,46)														
5.	MOTOR GROUND LEAD (GREEN) TERMINAL MUST BE FASTENED TO MOUNTING CRADLE OF MOTOR UNDER A SEPARATE GROUND SCREW ONLY. A SCREW USED FOR ANOTHER PURPOSE CANNOT BE USED FOR GROUNDING (UNDERWRITERS LABORATORIES REQUIREMENT).														
6.	WIRE COLOR CODE: BK - BLACK R - RED BL - BLUE O - ORANGE BR - BROWN Y - YELLOW P - PURPLE S - SLATE W - WHITE G - GREEN														
7.	<table border="1"> <thead> <tr> <th>LMU</th> <th>STARTING CAPACITOR VALUE</th> </tr> </thead> <tbody> <tr> <td>3,15,21,30,33,36,37,38,42,46,48,51,52</td> <td>43-48 MFD</td> </tr> <tr> <td>11,12</td> <td>170-226 MFD</td> </tr> <tr> <td>35</td> <td>64-77 MFD</td> </tr> <tr> <td>55</td> <td>15-18 MFD</td> </tr> <tr> <td>19,20,24,26,31,45,56</td> <td>88-108 MFD</td> </tr> <tr> <td>50,</td> <td>161-193 MFD</td> </tr> </tbody> </table>	LMU	STARTING CAPACITOR VALUE	3,15,21,30,33,36,37,38,42,46,48,51,52	43-48 MFD	11,12	170-226 MFD	35	64-77 MFD	55	15-18 MFD	19,20,24,26,31,45,56	88-108 MFD	50,	161-193 MFD
LMU	STARTING CAPACITOR VALUE														
3,15,21,30,33,36,37,38,42,46,48,51,52	43-48 MFD														
11,12	170-226 MFD														
35	64-77 MFD														
55	15-18 MFD														
19,20,24,26,31,45,56	88-108 MFD														
50,	161-193 MFD														



LMU 3,11,12,15,21,30,37,42,46,49
 FOR USE WITH 115V.A.C. 60~POWER SUPPLY
LMU 33, 36,38, 51,52
 FOR 115V.A.C. 50~POWER SUPPLY.
LMU 55
 FOR 230 V.A.C. 50~POWER SUPPLY



LMU 19,20,24,26,31,45,56
 FOR USE WITH 115V AC 60~POWER SUPPLY ONLY



LMU 50,
 FOR USE WITH 115V AC 50~POWER SUPPLY ONLY

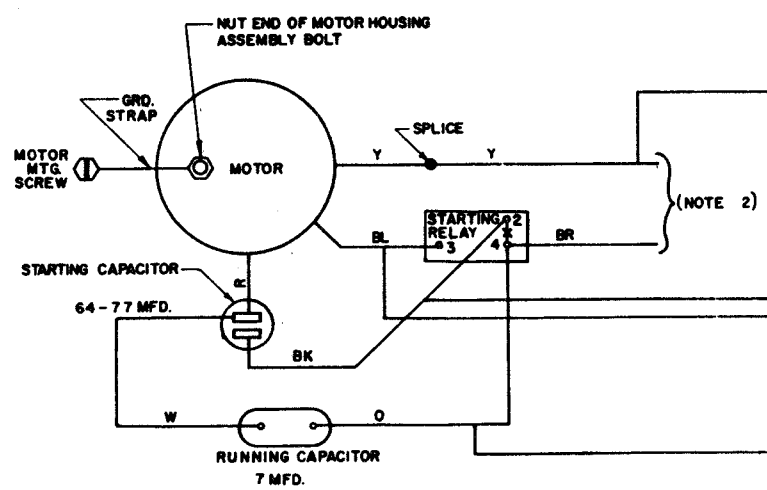
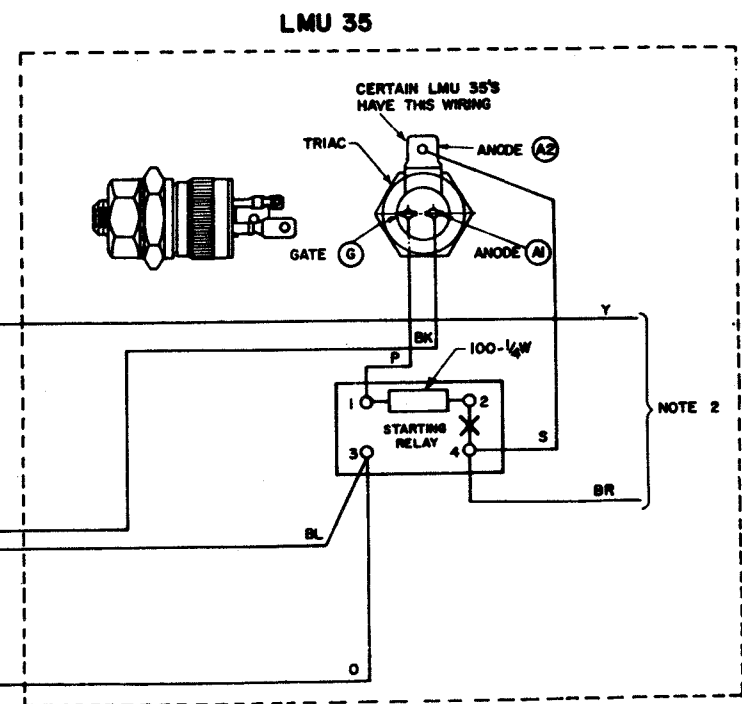


Figure 5-22. LMU3, 41, 12, 39, 38, 50 Wiring Diagrams (Sheet 1 of 2)

SERIES GOVERNED MOTOR UNITS

NO.	NOTES
1.	A. AC SERIES MOTOR UNITS OPERATE ON UN-REGULATED AC POWER. B. ASSOCIATED LESU MUST BE EQUIPPED WITH CAPACITOR-RESISTOR ASSEMBLY FOR DC OPERATION OF GOVERNED MOTORS.
2.	CONNECT EITHER WIRE TO DESIGNATED TERMINALS OF UNIT TERMINAL BLOCK, PER WIRING DIAGRAM OF ASSOCIATED UNIT.
3.	MOTOR LEADS OF SAME COLOR ARE INTER-CHANGEABLE.
4.	MOTOR LEADS ARE ENCLOSED IN APPROXIMATELY 10" LONG COPPER SHIELDING & FASTENED TO MOTOR AND CONTROL PARTS COMPARTMENT. (FOR LMU28).
5.	LMU4, 10, AND 14 MOTOR UNITS (UNIVERSAL SERIES GOVERNED) CONTAIN TWO 500 OHM RESISTORS WIRED IN PARALLEL EQUIVALENT TO 250 OHMS. LMU4 MOTOR UNIT SUPERSEDED BY LMU41 MOTOR UNIT. LMU10 MOTOR UNIT SUPERSEDED BY LMU47 MOTOR UNIT. LMU14 MOTOR UNIT SUPERSEDED BY LMU39 MOTOR UNIT.
6.	WIRE COLOR CODE: BK - BLACK R - RED BL - BLUE O - ORANGE BR - BROWN Y - YELLOW P - PURPLE S - SLATE W - WHITE G - GREEN

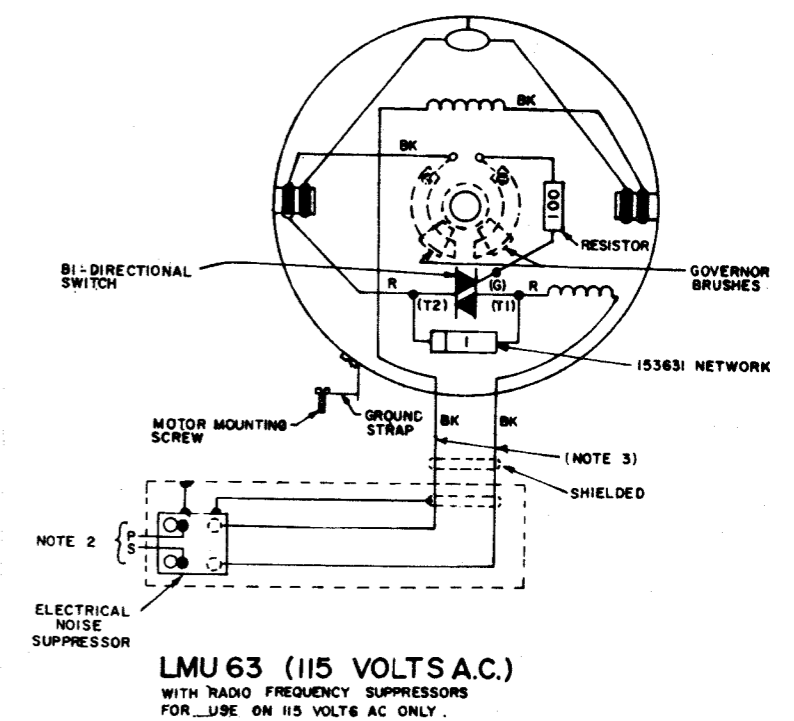
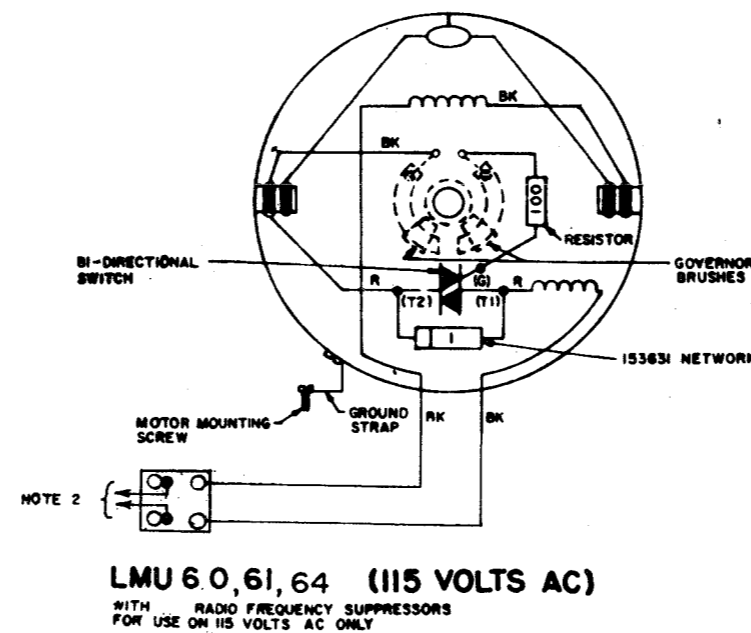
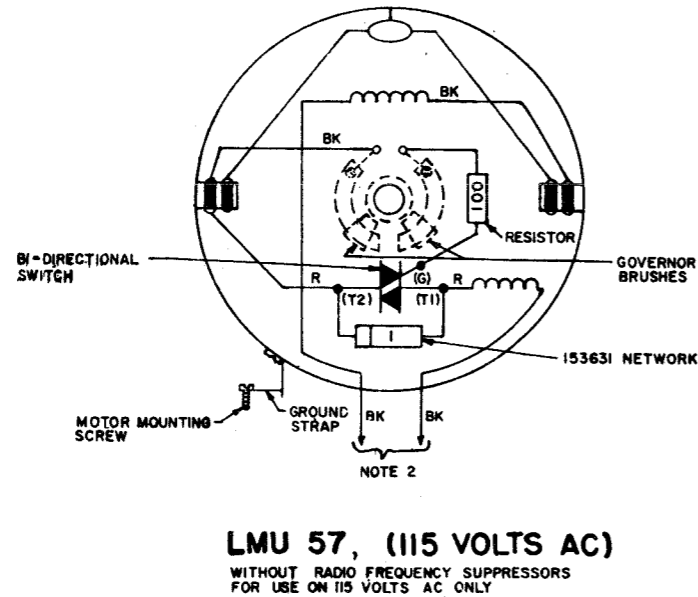
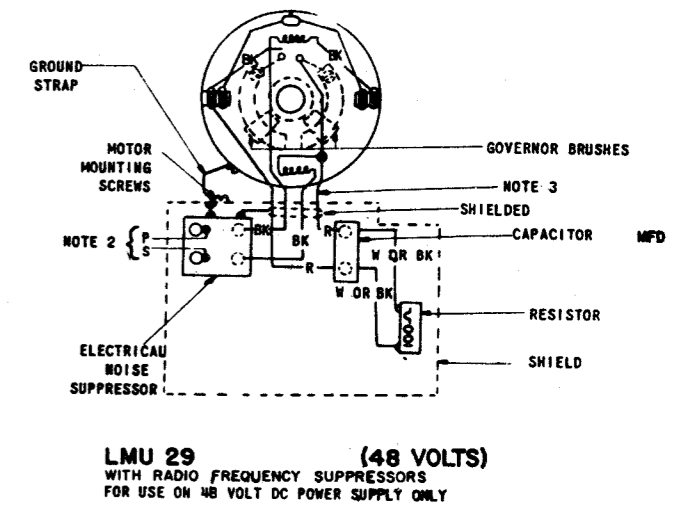
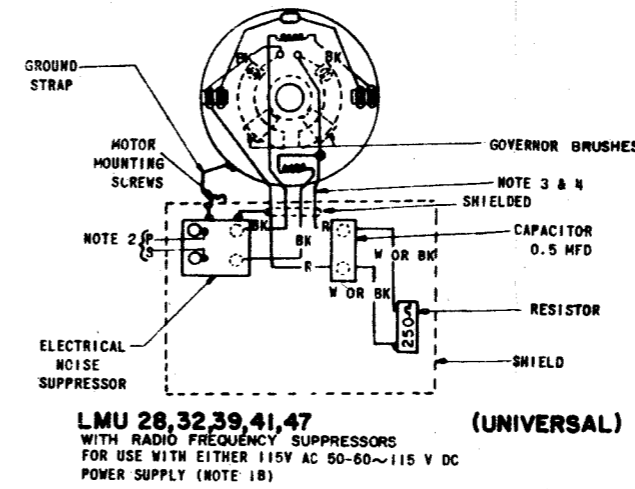
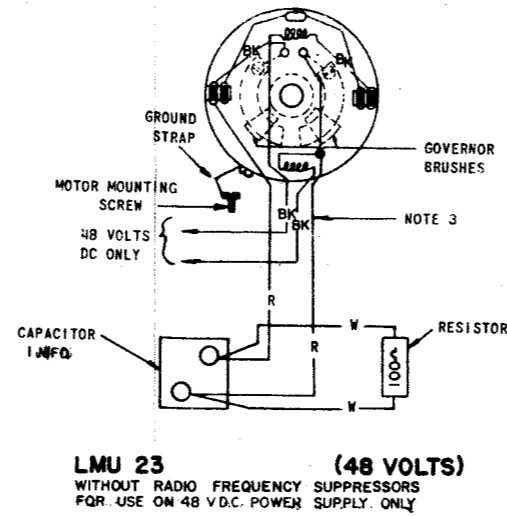
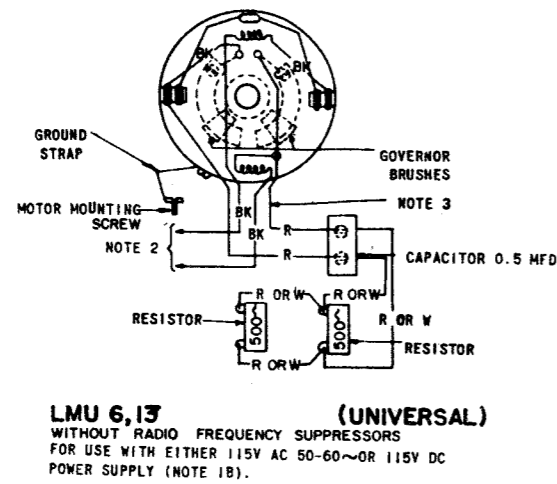
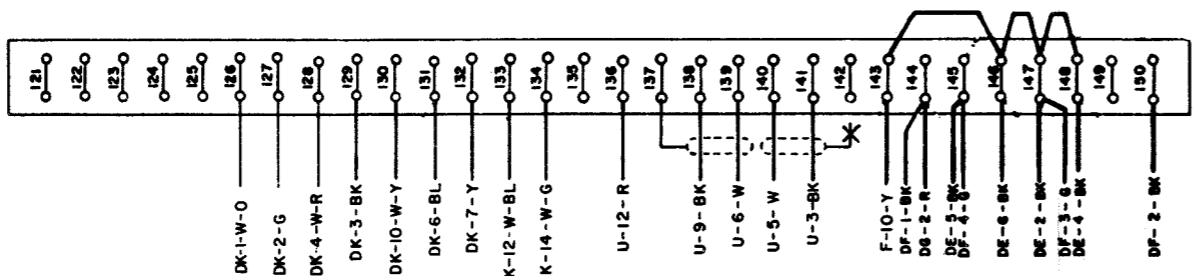
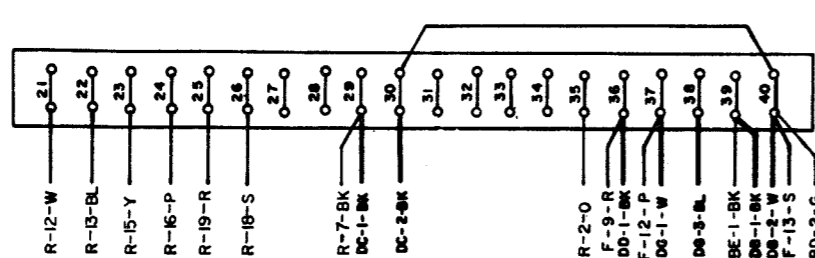
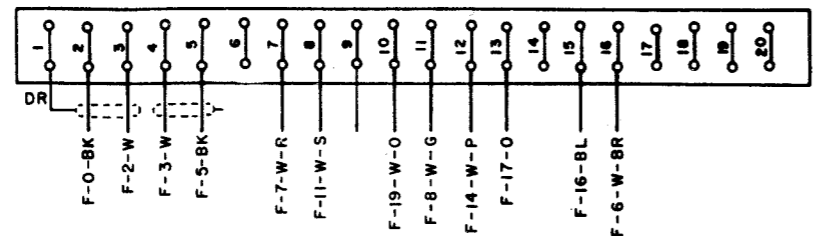


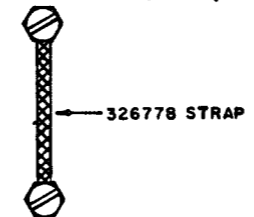
Figure 5-22. LMU3, 41, 12, 39, 38, 50 Wiring Diagram (Sheet 2 of 2)

NO	NOTES
1.	WIRING LEGEND:
2.	COLOR CODE: BK-BLACK BR-BROWN BL-BLUE R-RED P-PURPLE G-GREEN S-SLATE Y-YELLOW W-WHITE O-ORANGE
3.	-X- DENOTES SPLICED AND TAPED WIRES.
4.	CABINET POWER 100 - 130V AC 45 - 66 HZ
5.	ASSOCIATED CABLES: 158267 TRANSFORMER AND CABLE 154440 CABINET LIGHTS, SWITCH CABLE 324157 T-D BASE CABLE 324158 REPERFORATOR BASE CABLE 324159 KEYBOARD BASE CABLE 324895 TYPING UNIT CABLE
6.	THE CABINET GROUND SCREW IS ON THE 158682 BRACKET AT THE RIGHT OF THE CABINET TERMINAL BLOCKS.
7.	DENOTES SHIELD LEADS DENOTES TAPED SHIELD ENDS
8.	TERMINAL DESIGNATIONS ENCLOSED IN PARENTHESES ARE FOR REFERENCE AND ARE NOT MARKED ON COMPONENT.
9.	REFER TO 8405, AND 8141WD FOR SCHEMATIC WIRING DIAGRAMS.
10.	DR INDICATES DRAIN
11.	FUSE NUMBER 118510 1/4 AMP.

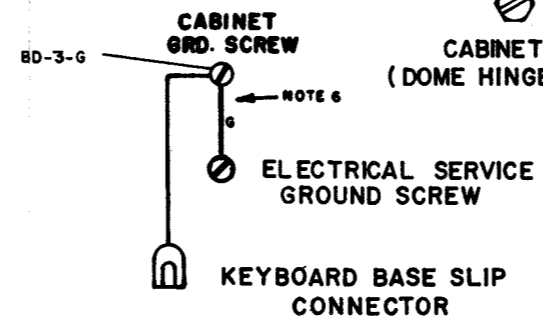
C
CABINET TERMINAL BLOCKS
153459



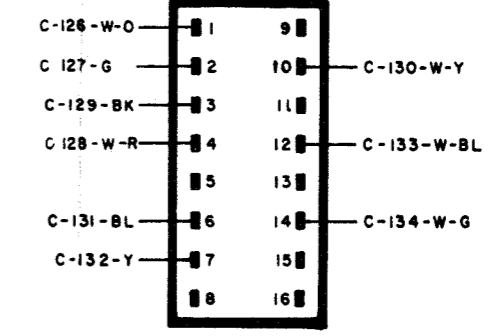
DOME GROUND
(DOME HINGE MTG. SCREW)



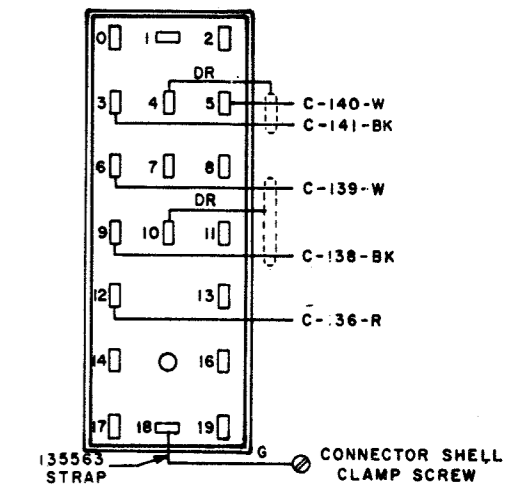
CABINET GROUND
(DOME HINGE MTG. SCREW)



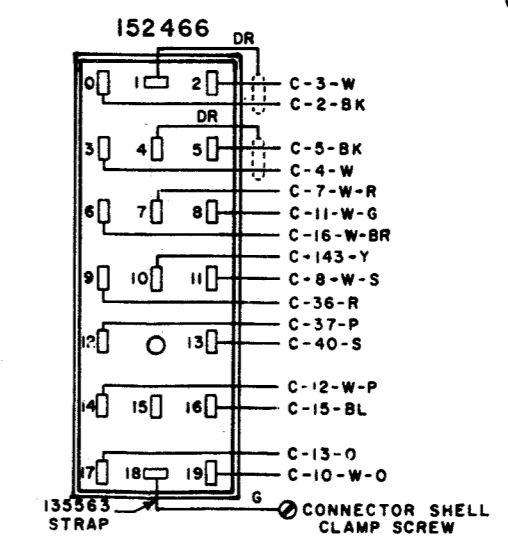
DK
LAAC 251 ONLY
AUX. REPERFORATOR BASE
POWER CONNECTOR
159541



U
TRANSMITTER DISTRIBUTOR
CONNECTOR
158259



F
KEYBOARD CONNECTOR
152466



R
TYPING UNIT
CONNECTOR
152466

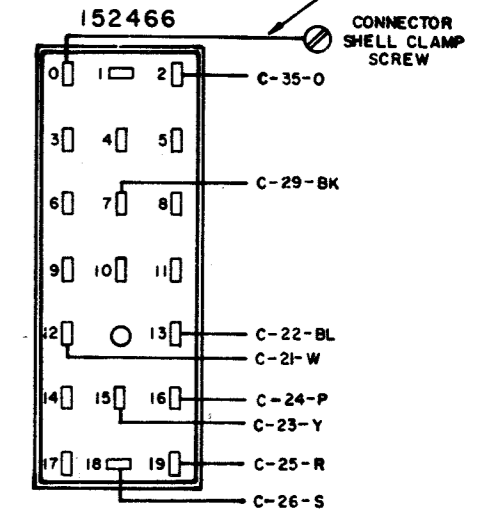


Figure 5-26. LAAC 251, 256, 255 ASR Cabinet Wiring Diagram (Sheet 1 of 2)

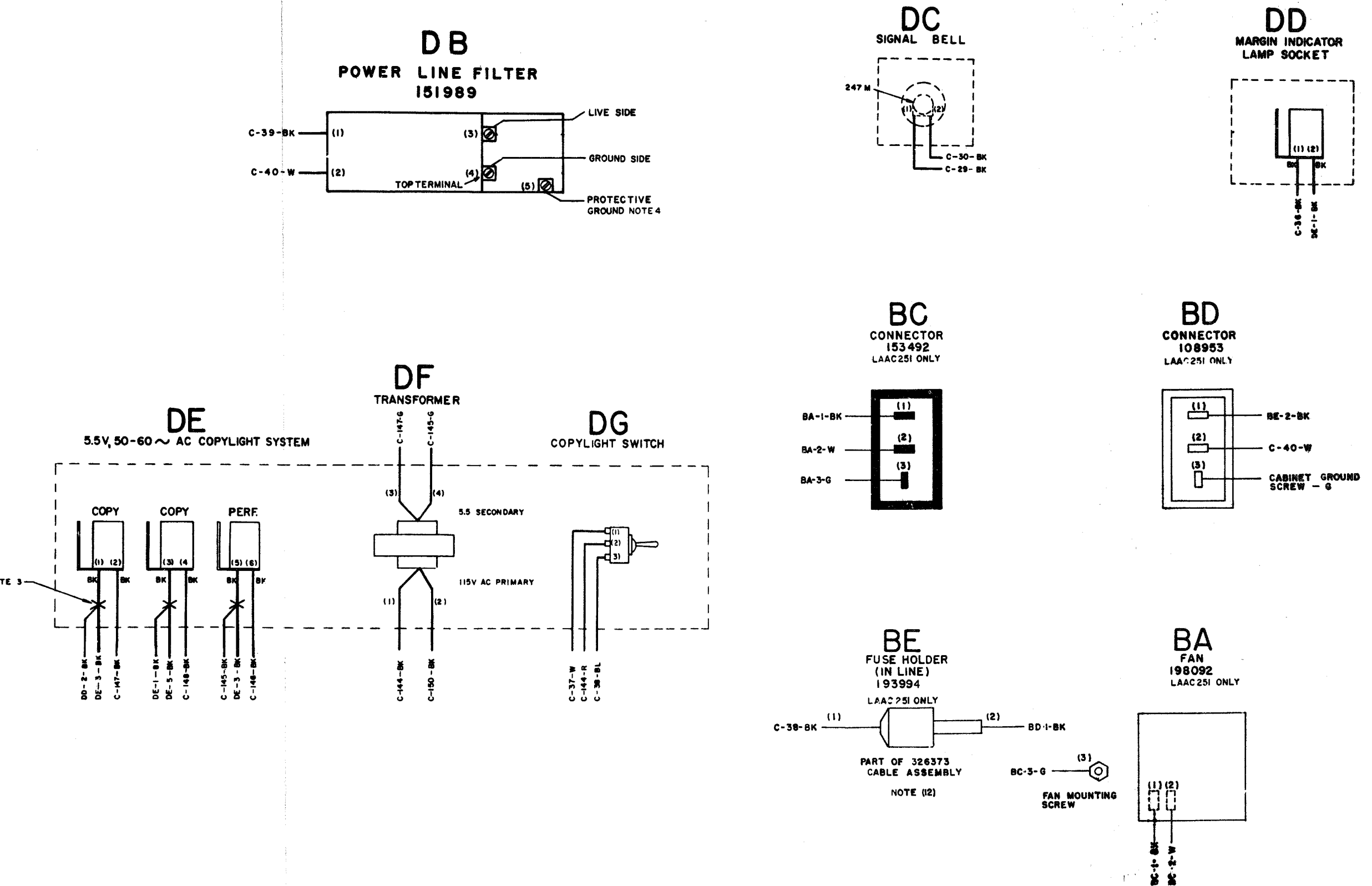
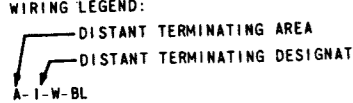



Figure 5-26. LAAC 251, 256, 255 ASR Cabinet Wiring Diagram Sheet 2 of 2)

NO.	NOTES
1.	WIRING LEGEND:  DISTANT TERMINATING AREA DISTANT TERMINATING DESIGNATION WIRE COLOR CODE
2.	COLOR CODE: BK - BLACK G - GREEN BR - BROWN BL - BLUE R - RED P - PURPLE O - ORANGE W - WHITE Y - YELLOW S - SLATE
3.	UNIT WIRED FOR 115 VOLTS AC OR DC POWER INPUT.
4.	PLUGS VIEWED FROM SOLDER TERMINAL ENDS.
5.	ALL CONTACTS SHOWN IN UNOPERATED POSITION IN KEYBOARD.
6.	ASSOCIATED CABLES: 324684 CABLE ASSEMBLY, MARGIN INDICATOR 174314 CABLE ASSEMBLY, AUXILIARY 324683 CABLE ASSEMBLY, KEYBOARD 155992 CABLE ASSEMBLY, BACKSPACE 159343 CABLE ASSEMBLY, BACKSPACE MAGNET 326355 CABLE ASSEMBLY, CLUTCH TRIP MAGNET
7.	* DENOTES TAPED SHIELD END.  DENOTES SHIELDED CABLE
8.	FOR SCHEMATIC SEE 0313 WD
9.	REFERENCE SPEC. FOR TELETYPE CORPORATION EMPLOYEES ONLY 61555
10.	COVER DIODE LEADS WITH TWO LENGTHS (APPROX. 1 INCH) OF INSULATING TUBING (60019 RM).
11.	PART OF ASSOCIATED UNIT (LPE, LPR, LRPE, OR LTPE)
12.	TERMINAL DESIGNATION ENCLOSED IN PARENTHESIS ARE FOR REFERENCE AND ARE NOT MARKED COMPONENTS
13.	DR INDICATES DRAIN
14.	BARE WIRE STRAP 39522 RM.
15.	* DENOTES 18 AWG

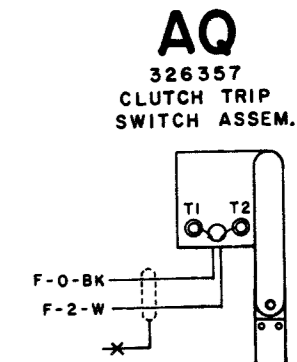
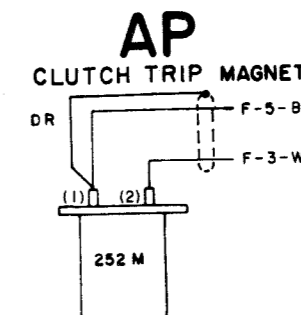
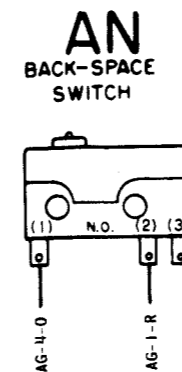
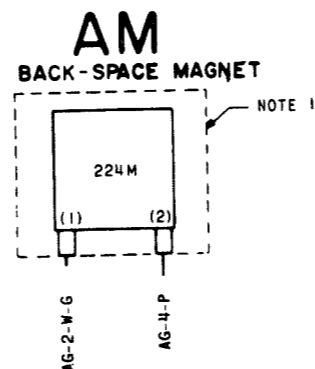
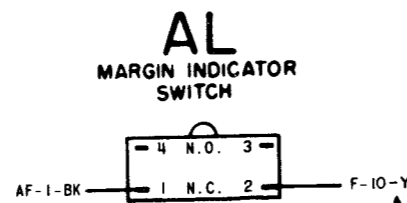
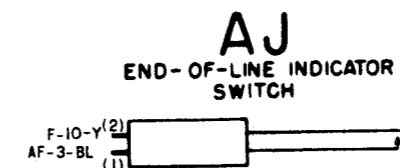
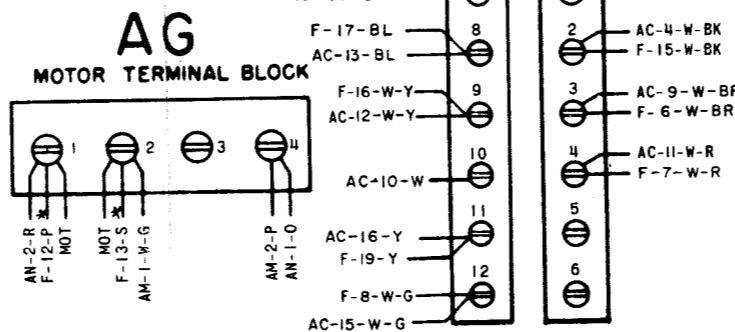
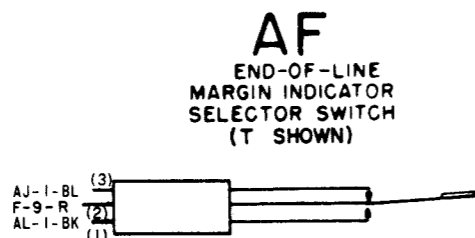
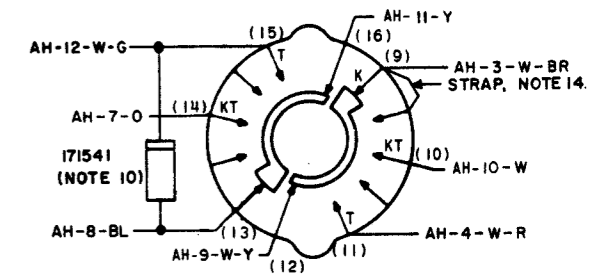
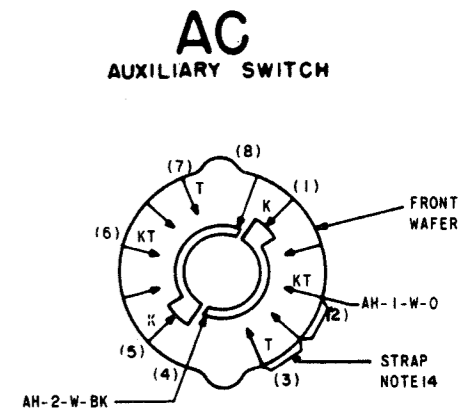
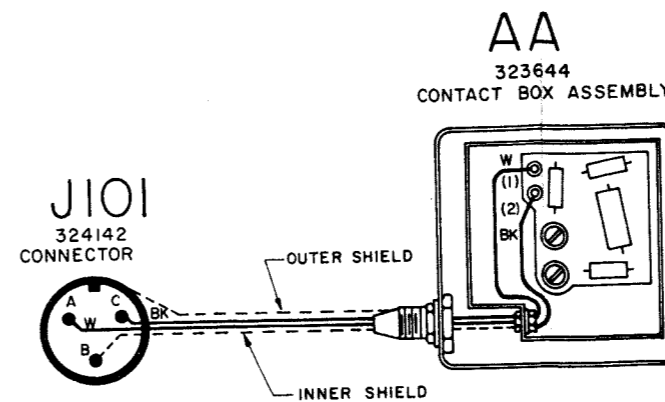
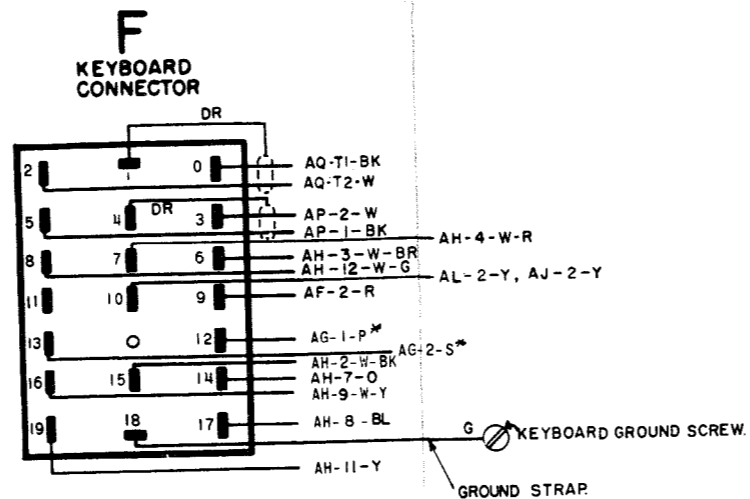
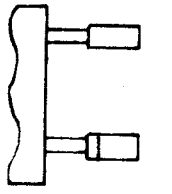


Figure 5-31. LAK 51 and 55 Keyboard Wiring Diagram

NO.	NOTES										
1.	<p>WIRING LEGEND:</p> <p>— DISTANT TERMINATING AREA</p> <p>— DISTANT TERMINATING DESIGNATION</p> <p>A-1-BK</p> <p>— COLOR CODE</p>										
2.	<p>COLOR CODE:</p> <table border="0"> <tr> <td>BK-BLACK</td> <td>BL-BLUE</td> </tr> <tr> <td>W-WHITE</td> <td>BR-BROWN</td> </tr> <tr> <td>Y-YELLOW</td> <td>O-ORANGE</td> </tr> <tr> <td>P-PURPLE</td> <td>G-GREEN</td> </tr> <tr> <td>S-SLATE</td> <td>R-RED</td> </tr> </table>	BK-BLACK	BL-BLUE	W-WHITE	BR-BROWN	Y-YELLOW	O-ORANGE	P-PURPLE	G-GREEN	S-SLATE	R-RED
BK-BLACK	BL-BLUE										
W-WHITE	BR-BROWN										
Y-YELLOW	O-ORANGE										
P-PURPLE	G-GREEN										
S-SLATE	R-RED										
3.	CONNECTORS VIEWED FROM SOLDERED TERMINAL END.										
4.	THESE LEADS FURNISHED WITH STUNT BOX.										
5.	 <p>NORMALLY OPEN CONTACTS</p> <p>NORMALLY CLOSED CONTACTS</p>										
6.	135563 STRAP CONNECTED TO TERMINAL TO BE CONNECTED TO CONNECTOR BRACKET MOUNTING SCREW ON LP 134, LP 138, LP 149, LP 150.										
7.	<p>LEGEND:</p> <p>DR-DRAIN LEAD</p> <p>CL-CLEAR INSULATION</p>										

9. TERMINAL DESIGNATIONS ENCLOSED IN PARENTHESIS IS ARE FOR REFERENCE AND ARE NOT MARKED ON COMPONENT.
10. TAPE ENDS AND TIE BACK 152468 CABLE IF NECESSARY.
11. 337989 CABLE ASSEMBLY IS REQ'D ONLY WHEN THE LP 134 IS USED WITH THE LAAC 252.

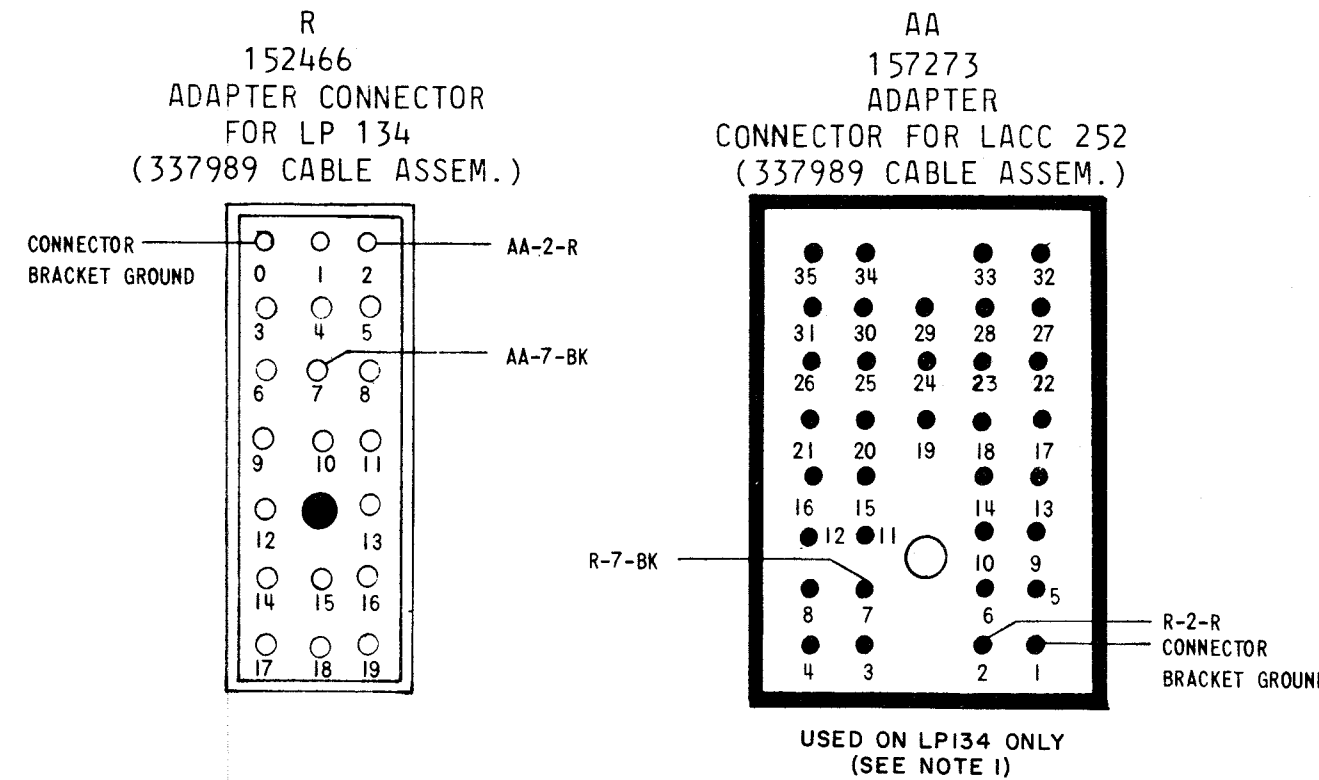
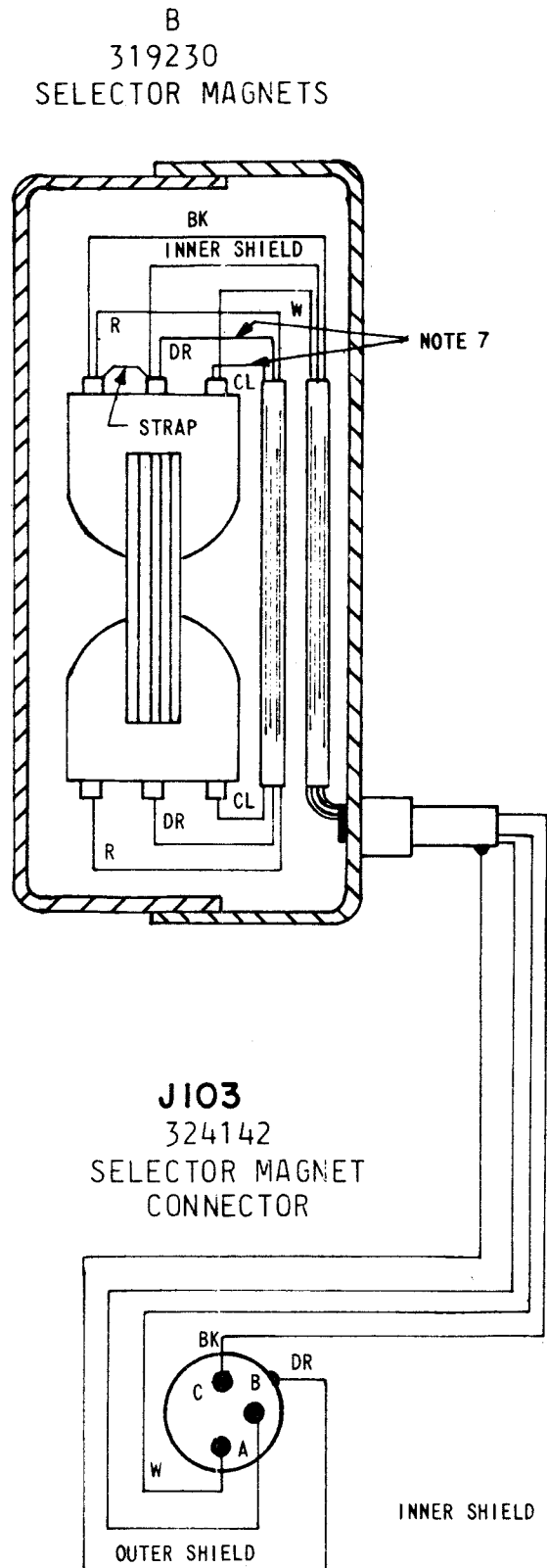
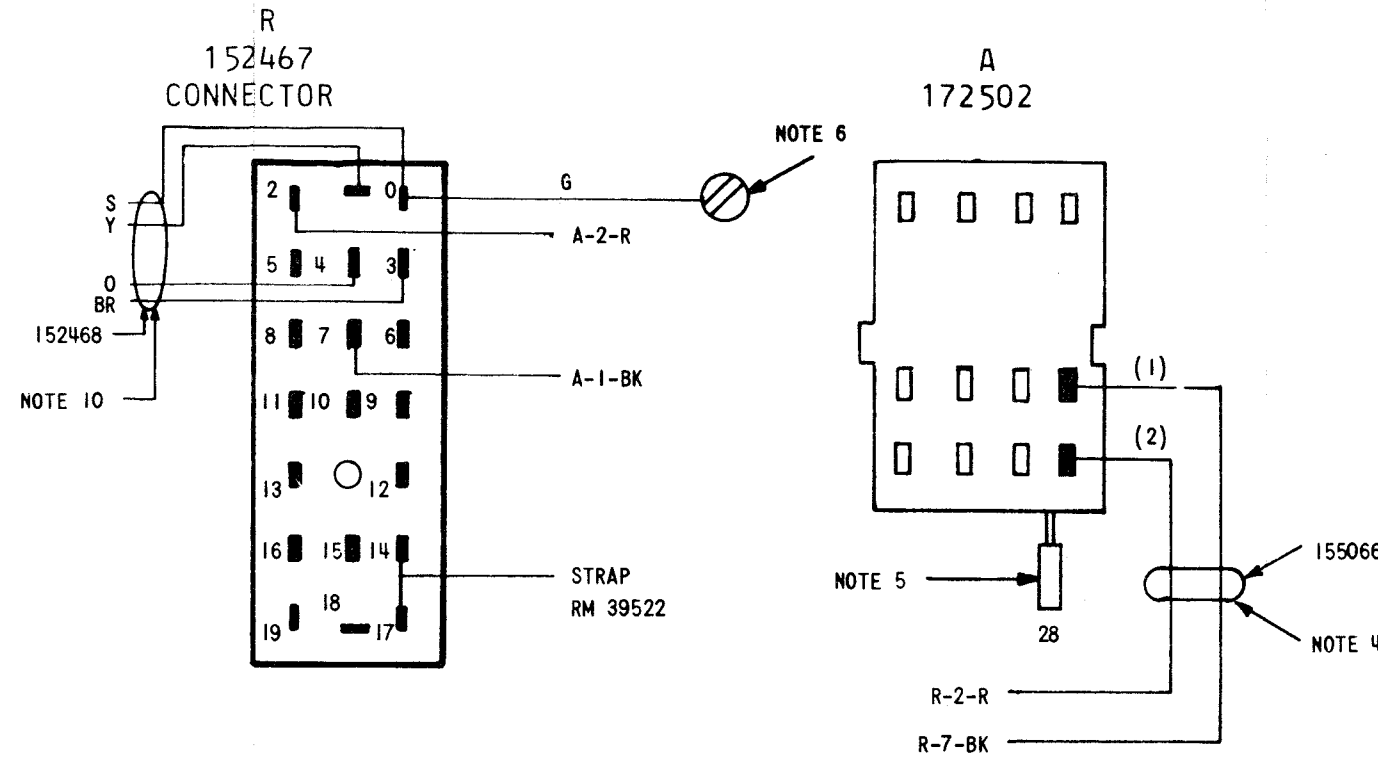


Figure 5-32. LP 134, 138, 149 and 150 Page Printer Wiring Diagram

NO.	NOTES
1.	WIRING LEGEND :
2.	COLOR CODE : BK - BLACK BR - BROWN R - RED O - ORANGE Y - YELLOW G - GREEN BL - BLUE S - SLATE P - PURPLE W - WHITE
3.	ASSOCIATED CABLE ASSEMBLIES : 161886, 173441, 324155, 326396, 312475, 312476,
4.	ALL CONNECTORS VIEWED FROM SOLDER END.
5.	TERMINAL DESIGNATIONS ENCLOSED IN PARENTHESIS ARE NOT MARKED ON COMPONENTS.
6.	FOR SCHEMATIC WIRING DIAGRAM SEE 8313 WD.
7.	ON LRB60 SPLICE, SOLDER AND TAPE BLACK LEAD FROM DH-2 IN THE 173441 CABLE ASSEMBLY, TO THE BLUE LEAD OF THE 312476 CABLE ASSEMBLY. TAPE AND TIE THE BLACK LEAD THAT RUNS FROM DB1 TO DF1 OF THE 173441 CABLE.
8.	LRB 59 - CONNECT BLACK LEAD DB-1 TO DF-1. LRB60 - CONNECT ORANGE LEAD FROM 312476 TO DB-1

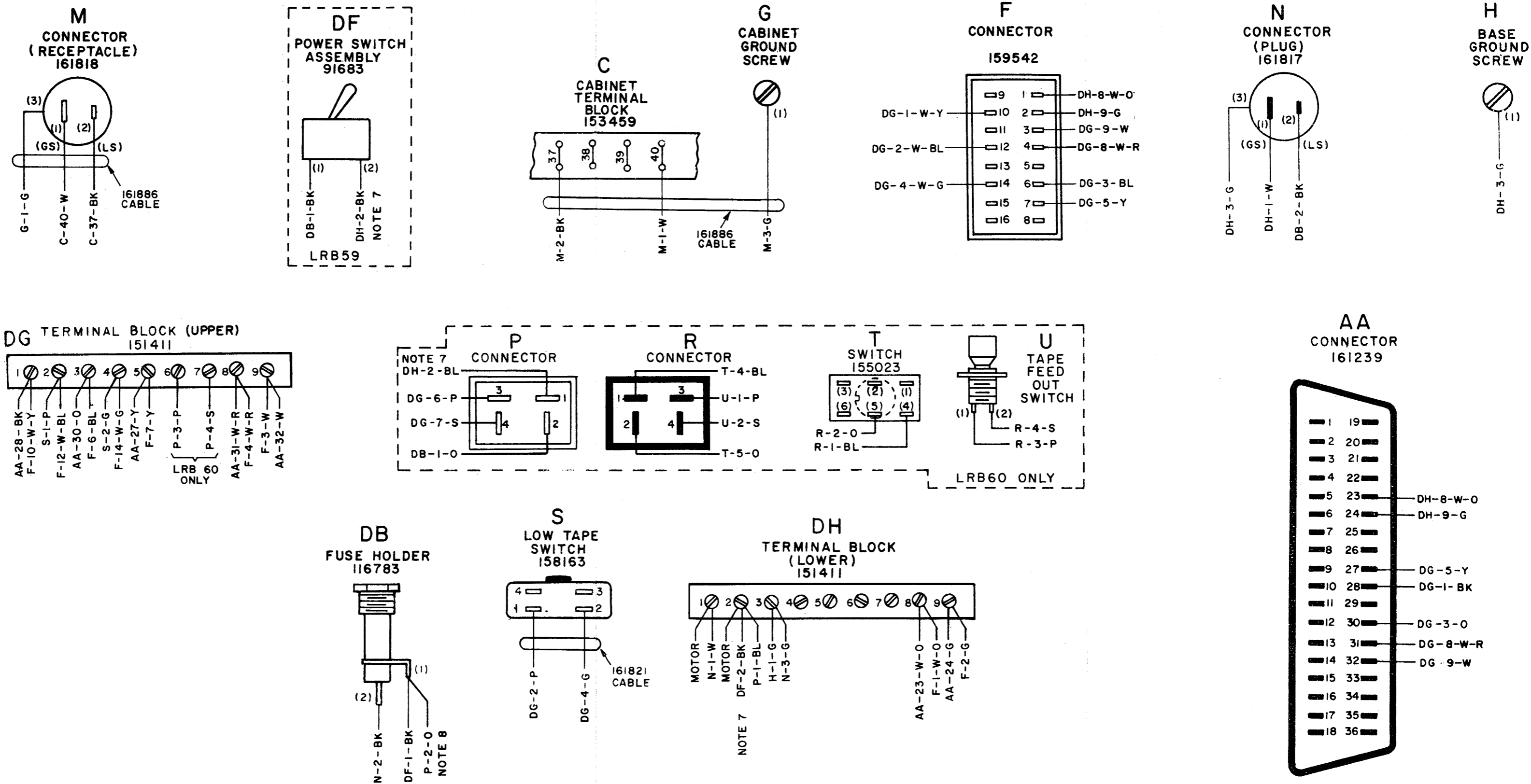


Figure 5-34. LRB 59 and 60 Reperforator Base Wiring Diagram

NOTES:																					
1.	WIRING LEGEND: 																				
2.	COLOR CODE: <table border="0"> <tr> <td>BK - BLACK</td> <td>W-BK - WHITE-BLACK</td> </tr> <tr> <td>BR - BROWN</td> <td>W-BR - WHITE-BROWN</td> </tr> <tr> <td>R - RED</td> <td>W-R - WHITE-RED</td> </tr> <tr> <td>O - ORANGE</td> <td>W-O - WHITE-ORANGE</td> </tr> <tr> <td>Y - YELLOW</td> <td>W-Y - WHITE-YELLOW</td> </tr> <tr> <td>G - GREEN</td> <td>W-G - WHITE-GREEN</td> </tr> <tr> <td>BL - BLUE</td> <td>W-BL - WHITE-BLUE</td> </tr> <tr> <td>P - PURPLE</td> <td>W-P - WHITE-PURPLE</td> </tr> <tr> <td>S - SLATE</td> <td>W-S - WHITE-SLATE</td> </tr> <tr> <td>W - WHITE</td> <td></td> </tr> </table>	BK - BLACK	W-BK - WHITE-BLACK	BR - BROWN	W-BR - WHITE-BROWN	R - RED	W-R - WHITE-RED	O - ORANGE	W-O - WHITE-ORANGE	Y - YELLOW	W-Y - WHITE-YELLOW	G - GREEN	W-G - WHITE-GREEN	BL - BLUE	W-BL - WHITE-BLUE	P - PURPLE	W-P - WHITE-PURPLE	S - SLATE	W-S - WHITE-SLATE	W - WHITE	
BK - BLACK	W-BK - WHITE-BLACK																				
BR - BROWN	W-BR - WHITE-BROWN																				
R - RED	W-R - WHITE-RED																				
O - ORANGE	W-O - WHITE-ORANGE																				
Y - YELLOW	W-Y - WHITE-YELLOW																				
G - GREEN	W-G - WHITE-GREEN																				
BL - BLUE	W-BL - WHITE-BLUE																				
P - PURPLE	W-P - WHITE-PURPLE																				
S - SLATE	W-S - WHITE-SLATE																				
W - WHITE																					
3.	CONNECTORS VIEWED FROM SOLDER TERMINAL ENDS																				
4.	ALL CONTACTS SHOWN IN UNOPERATED POSITION.																				
5.	ASSOCIATED CABLES: 324681 CABLE ASSEMBLY TRANS. - DIST.																				
6.	THE NUMBERS ENCLOSED BY PARENTHESES ARE USED FOR REFERENCE AND ARE NOT MARKED ON THE PARTS.																				
7.	STRAP WITH 22 GAUGE WIRE AS INDICATED.																				
8.	FOR SCHEMATIC WIRING REFER TO 8313 WD WIRING DIAGRAM.																				

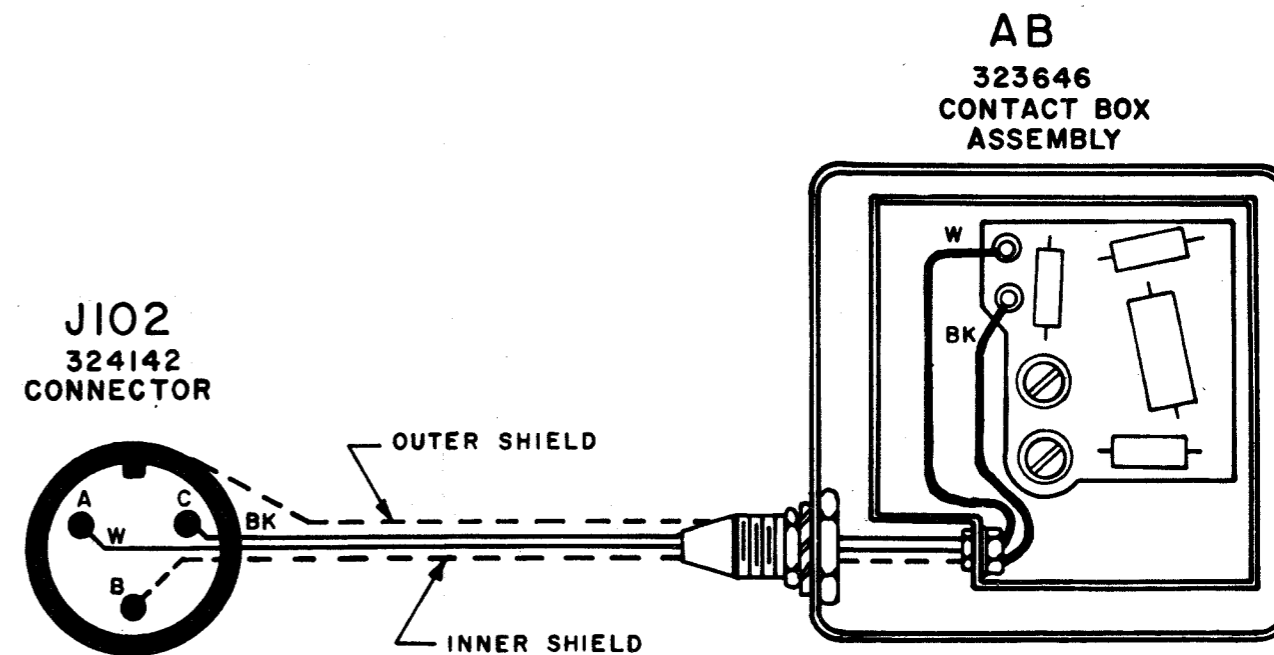
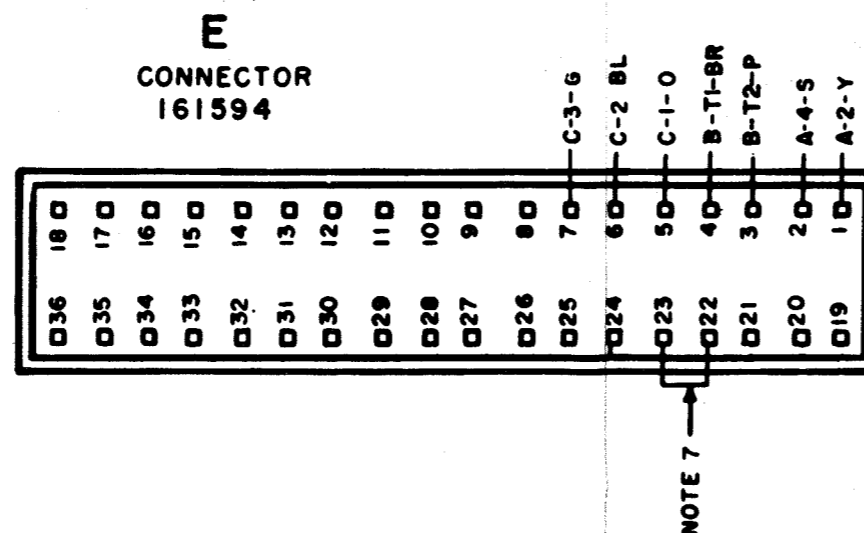
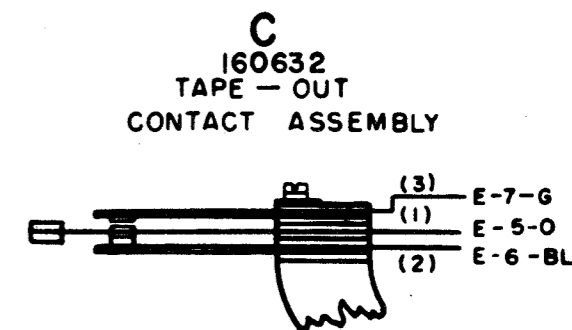
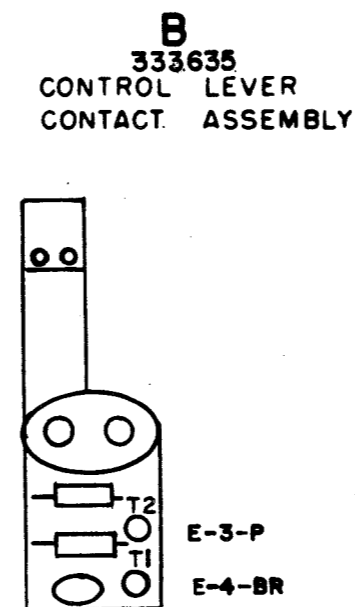
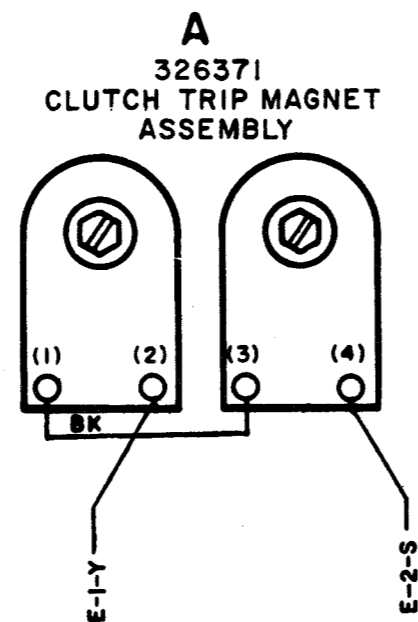




Figure 5-35. LXD 37 and 38 Wiring Diagram

NO.	NOTES																
1.	<p>WIRING LEGEND</p>  <p>DISTANT TERMINAL AREA DISTANT TERMINAL DESIGNATION WIRE COLOR</p>																
2.	<p>COLOR CODE:</p> <table border="0"> <tr> <td>BK</td><td>BLACK</td> <td>BR</td><td>BROWN</td> </tr> <tr> <td>Y</td><td>YELLOW</td> <td>S</td><td>SLATE</td> </tr> <tr> <td>P</td><td>PURPLE</td> <td>O</td><td>ORANGE</td> </tr> <tr> <td>BL</td><td>BLUE</td> <td>W</td><td>WHITE</td> </tr> </table>	BK	BLACK	BR	BROWN	Y	YELLOW	S	SLATE	P	PURPLE	O	ORANGE	BL	BLUE	W	WHITE
BK	BLACK	BR	BROWN														
Y	YELLOW	S	SLATE														
P	PURPLE	O	ORANGE														
BL	BLUE	W	WHITE														
3.	CONNECTIONS VIEWED FROM SOLDER TERMINAL ENDS.																
4.	ASSOCIATED CABLE 324682																
5.	ASSOCIATED SCHEMATIC WIRING DIAGRAM 8313 WD.																
6.	STRAP WITH 22 GAUGE WIRE AS INDICATED.																
7.	DR INDICATES DRAIN WIRE																
8.	 <p>INDICATES SINGLE SHIELDING</p>																
9.	GROUND STRAP 117366 OF LCXB SHOULD BE SECURED TO RIGHT REAR MTG. STUD OF LAAC RAIL (SEE SPEC. 5941S).																

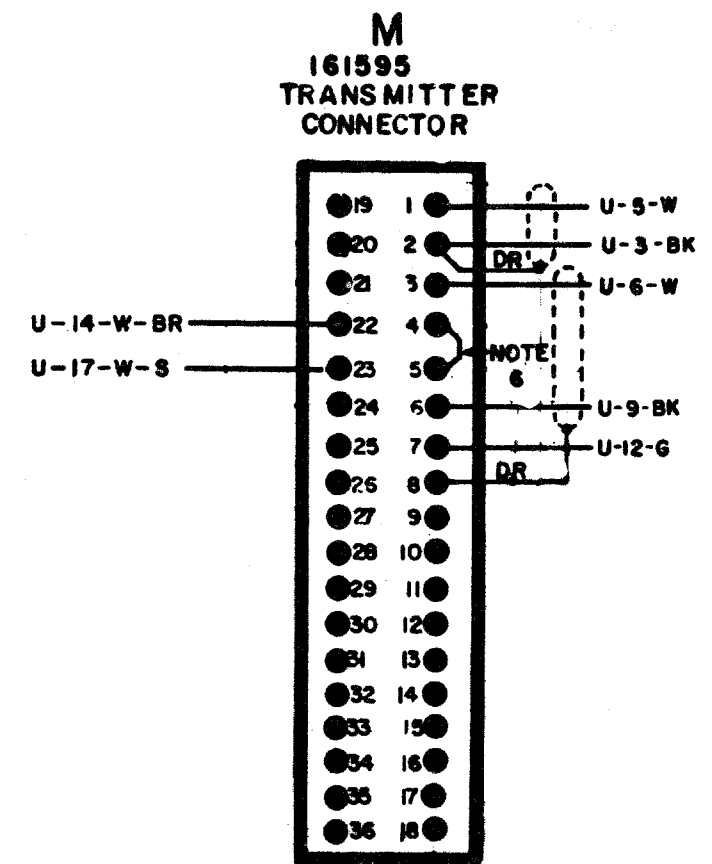
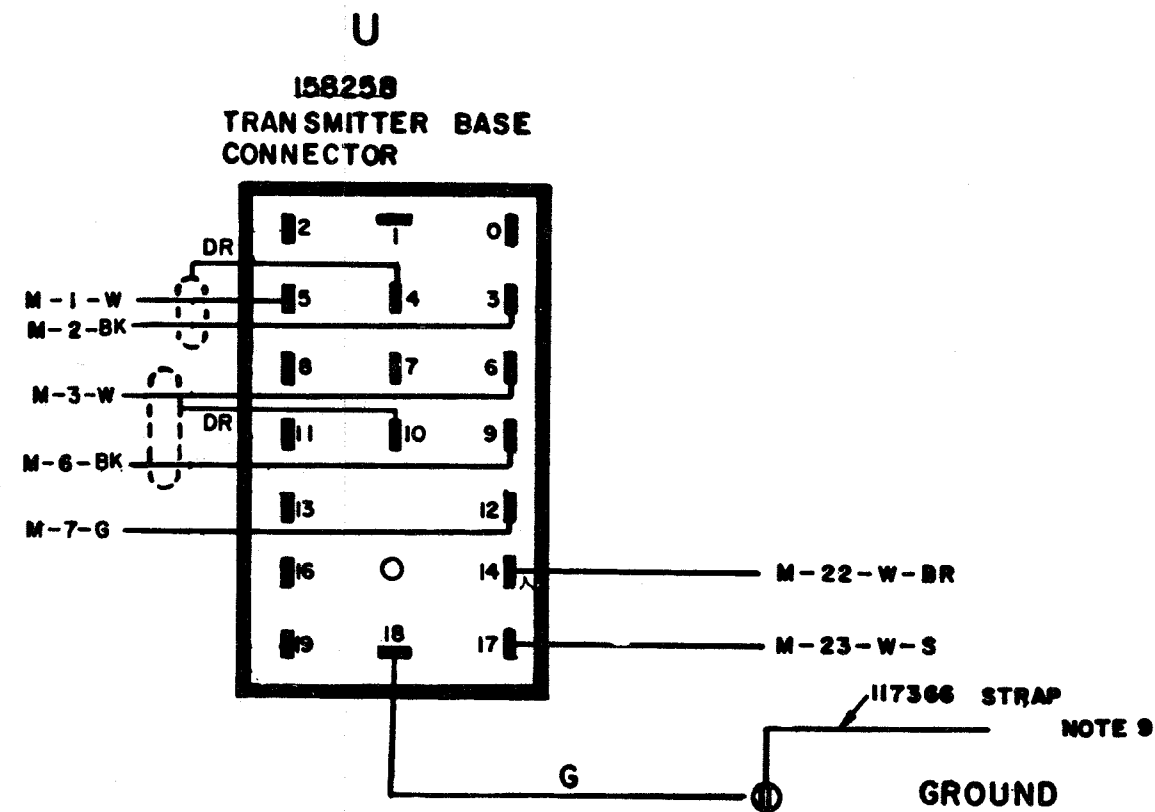
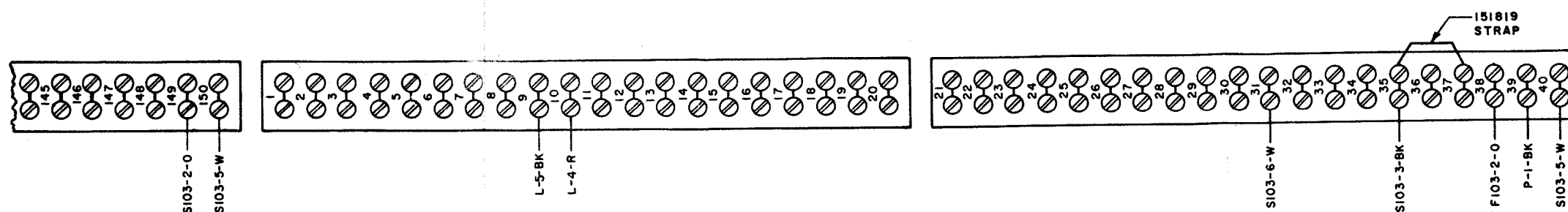


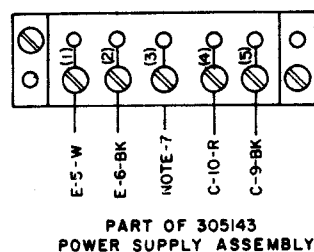
Figure 5-36. LCXB 24 Wiring Diagram

NO.	NOTES
1.	WIRING LEGEND:
2.	COLOR CODE: BK - BLACK O - ORANGE BL - BLUE R - RED BR - BROWN P - PURPLE Y - YELLOW S - SLATE W - WHITE G - GREEN
3.	TERMINAL DESIGNATIONS ENCLOSED IN PARENTHESIS ARE FOR REFERENCE AND ARE NOT MARKED ON COMPONENT.
4.	FUSE NUMBER: 161136 6 1/4 AMP SLOW-BLOWING
5.	REFER TO 8313 WD FOR SCHEMATIC WIRING DIAGRAM.
6.	REFERENCE SPEC FOR TELETYPE CORPORATION EMPLOYEES ONLY. 61397S
7.	305143 ASSEMBLY IS STRAPPED BETWEEN TERMINALS 3 AND 4. REMOVE STRAP FOR THIS APPLICATION.
8.	ASSOCIATED CABLE ASSEMBLY 324685

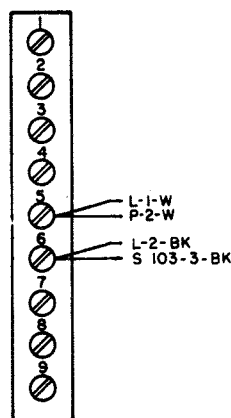
C
153459
CABINET TERMINAL BLOCKS



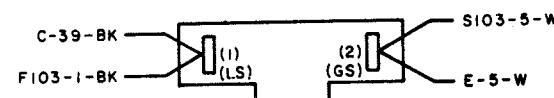
L
305150
RECTIFIER
TERMINAL BLOCK



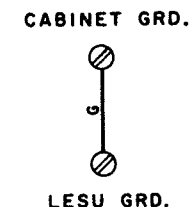
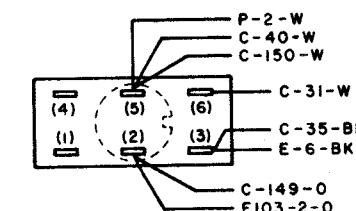
E
151411
POWER
TERMINAL BLOCK



P
178831
CONVENIENCE
RECEPTACLE



S103
155023
POWER SWITCH



F103
116783
FUSE HOLDER

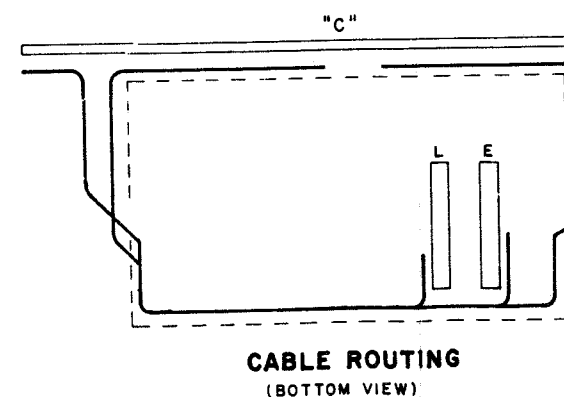
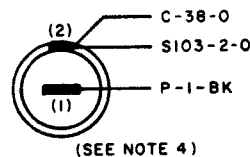









Figure 5-38. LESU 123 Electrical Service Unit Wiring Diagram

NO.	NOTES
1	ALL RESISTORS 1/2 WATT, RESISTANCE VALUES IN OHMS, CAPACITANCE VALUES IN MICROFARADS UNLESS OTHERWISE SPECIFIED
2	TERMINAL DESIGNATIONS ENCLOSED IN PARENTHESES ARE FOR REFERENCE AND ARE NOT MARKED ON COMPONENT.
3	SL-BL INDICATES SLOW BLOWING
4	 INDICATES FEMALE TERMINAL  INDICATES MALE TERMINAL
5	REFERENCE SPEC FOR TELETYPE CORPORATION EMPLOYEES ONLY: 61.267S
6	T1 SECONDARY 50V AC TO CENTER TAP WITH 115V AC INPUT; 8 OHMS (MAX) PRIMARY RESISTANCE; 10 OHMS (MAX) SECONDARY RESISTANCE TO CENTER TAP
7	 INDICATES CIRCUIT COMMON.
8	
9	REFER TO 8322WD FOR ACTUAL WIRING DIAGRAM
10	REFER TO RELATED SET DIAGRAMS FOR EXTERNAL CIRCUITS
11	 INDICATES SINGLE SHIELDING  INDICATES DOUBLE SHIELDING
12	TERMINAL TC-5 IS AN AUXILIARY KEYS OUTPUT TERMINAL TC-6 AN AUXILIARY SELECTOR MAGNET DRIVER INPUT AS SHIPPED. THESE TERMINALS ARE STRAPPED SO THE PAGE PRINTER WILL MONITOR ALL TRANSMISSIONS FROM THE KEYS
13	TERMINAL TD-5 AND TD-6 PROVIDE AUXILIARY INPUTS TO EACH OF THE TWO KEYS CARDS AS SHIPPED. THESE TERMINALS ARE STRAPPED SO THAT BOTH THE LXD AND LAK CAN USE A SINGLE KEYS CARD FOR NON-SIMULTANEOUS OPERATION WITH THIS ARRANGEMENT DO NOT PUT A 303142 KEYS CARD IN KB CONNECTOR.
14	KEYER OUTPUTS + 6V MARK - 6V SPACE
15	 INDICATES INNER SHIELD  INDICATES OUTER SHIELD
16	IF EXTERNAL BATTERY IS SUPPLIED FOR POLAR LINE KEYS, REMOVE STRAPS BETWEEN TD-1, TD-2 AND TD-3, TD-4. APPLY + BATTERY (6.6 TO 7.8V) TO TD-2, AND - BATTERY (6.6 TO 7.8V) TO TD-4. IF ± 6V IS SUPPLIED, THE KEYS OUTPUT WILL DROP TO ± 4.5V.

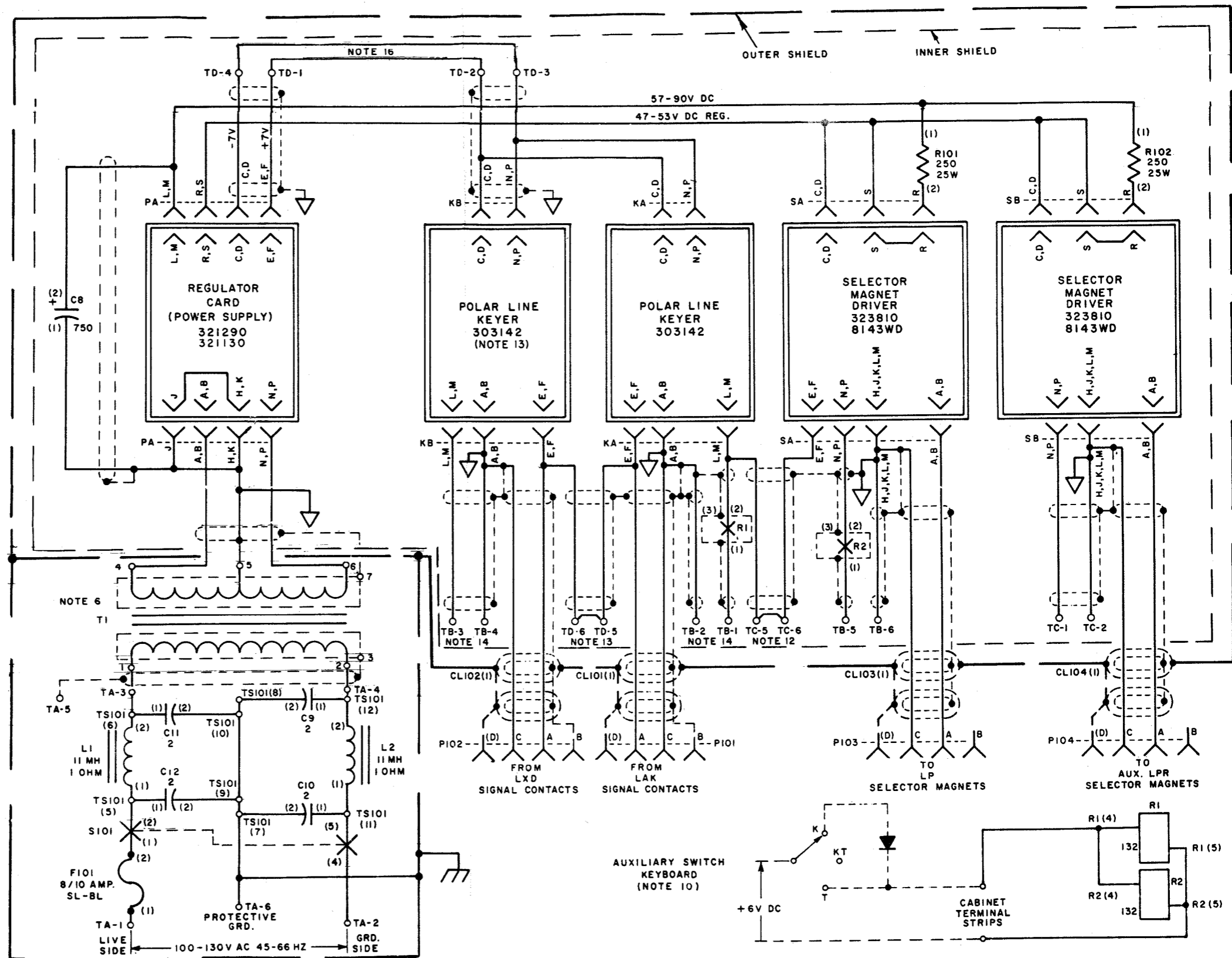
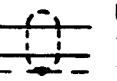
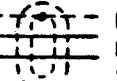


Figure 5-41. 323811 Electrical Service Assembly (Signal) Schematic Wiring Diagram

NO.	NOTES
1.	ALL VOLTAGES DC UNLESS OTHERWISE SPECIFIED.
2.	TERMINAL DESIGNATION ENCLOSED IN PARENTHESIS ARE FOR REFERENCE AND ARE NOT MARKED ON COMPONENT.
3.	FUSE NUMBER 162360 8/10 AMP SLOW BLOWING.
4.	TERMINAL NUMBERS APPEAR ON ASSOCIATED MARKING STRIP.
5.	* INDICATES TO TAPE END TERMINATING POINT.
6.	 INDICATES SINGLE SHIELDING
7.	 INDICATES DOUBLE SHIELDING
8.	ALL STRAPPING WIRE 24 AWG BARE, 39603RM. USE SLEEVING WHERE REQUIRED. ① INDICATES 18 AWG STRANDED WIRE. ② INDICATES 24 AWG STRANDED WIRE. ③ INDICATES 24 AWG 2 LEAD SINGLE SHIELDED CABLE. ALL SURFACE WIRE 24AWG GREEN, 31784RM UNLESS OTHERWISE SPECIFIED.
9.	REFER TO 8141WD FOR SCHEMATIC WIRING DIAGRAM.
10.	COLOR CODE: BK-BLACK P-PURPLE BL-BLUE R-RED BR-BROWN S-SLATE G-GREEN W-WHITE O-ORANGE Y-YELLOW

11 TERMINAL TC-5 IS AN AUXILIARY KEYS OUTPUT. TERMINAL TC-6, AN AUXILIARY SELECTOR MAGNET DRIVER INPUT. AS SHIPPED, THESE TERMINALS ARE STRAPPED SO THE PAGE PRINTER WILL MONITOR ALL TRANSMISSIONS FROM THE KEYS.

NOTES CONTINUED ON SHEET 2

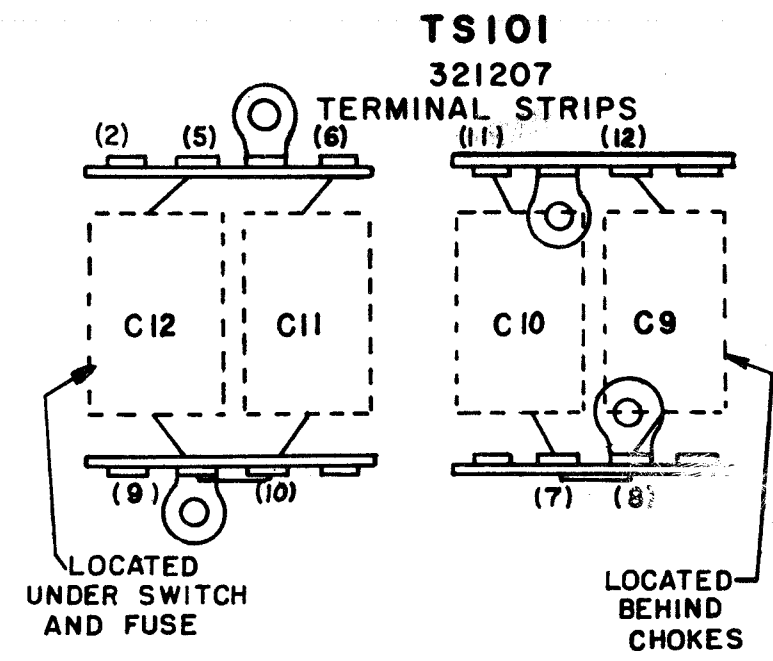
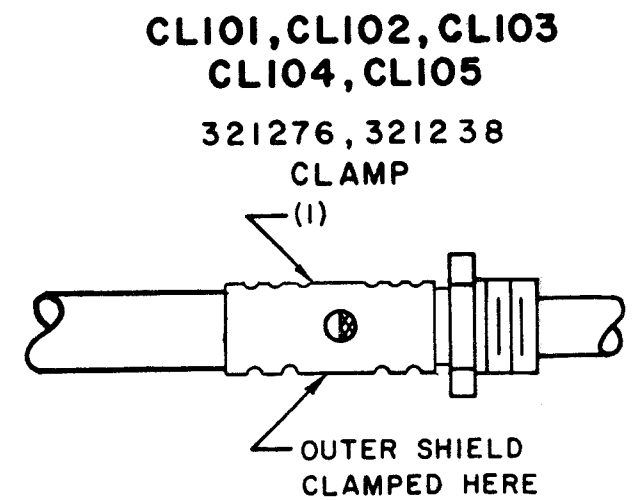
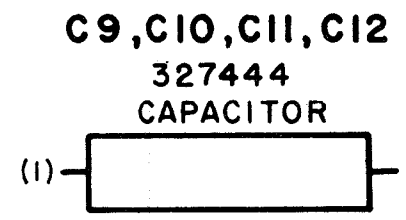
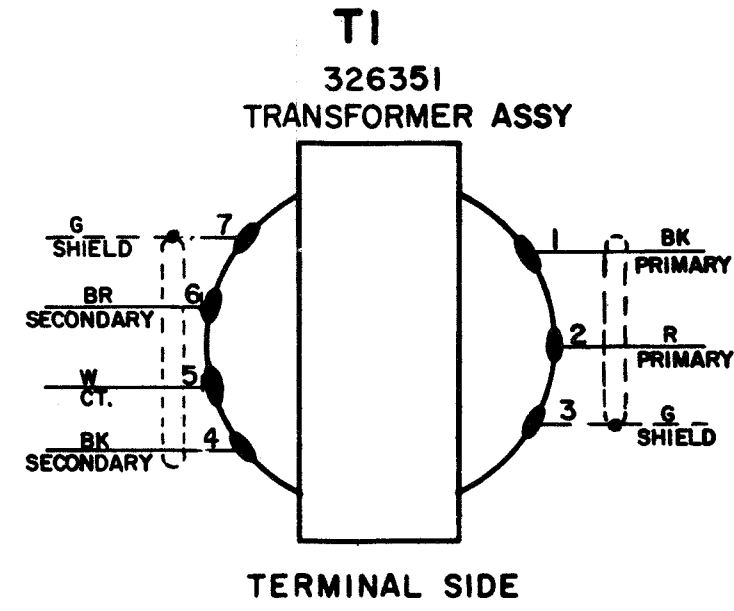
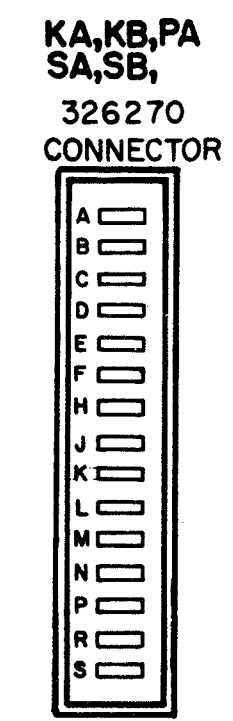
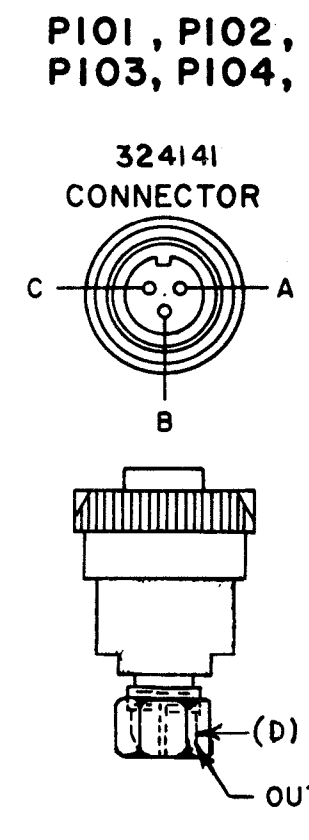
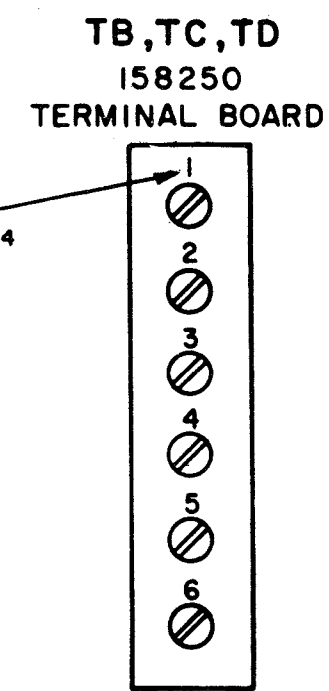
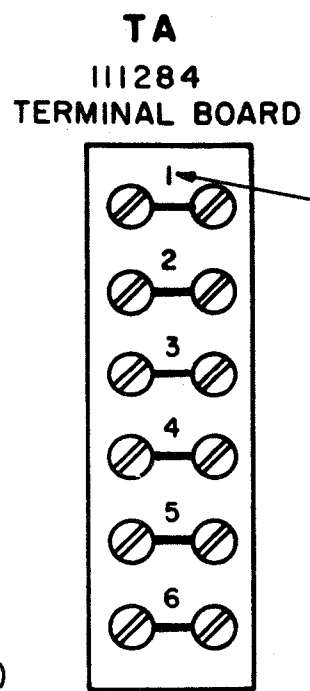
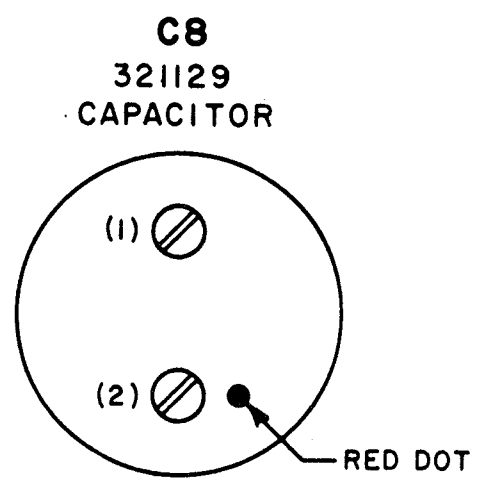
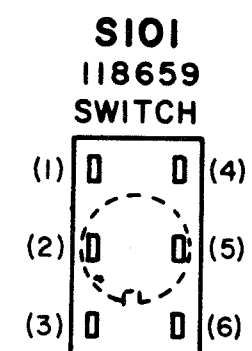
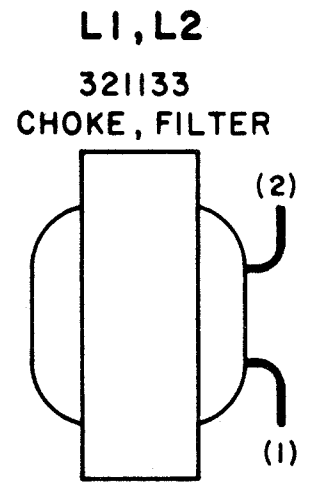
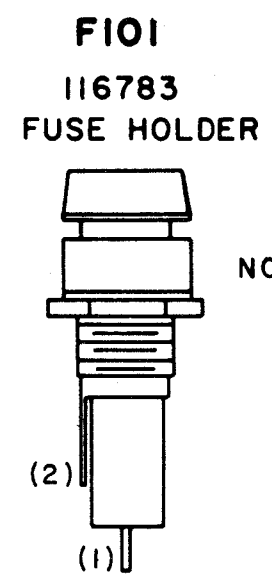


Figure 5-42. 323811 Electrical Service Assembly (Signal) Wiring Diagram (Sheet 1 of 5)

NO.	NOTES
12.	IF EXTERNAL BATTERY IS SUPPLIED FOR POLAR LINE KEYS, REMOVE STRAPS BETWEEN TD 1, TD 2 & TD 3, TD 4. APPLY + BATTERY (6.6 TO 7.80V) TO TD 2 AND - BATTERY (6.6 TO 7.80V) TO TD 4. IF ±6V IS SUPPLIED, KEYS OUTPUT WILL DROP TO ± 4.5V.
13.	TERMINAL TD 5 & TD 6 PROVIDE AUXILIARY INPUTS TO EACH OF THE TWO KEYS CARDS. AS SHIPPED, THESE TERMINALS ARE STRAPPED SO THAT BOTH THE LXD & LAK CAN USE A SINGLE KEYS CARD FOR NONSIMULTANEOUS OPERATION. WITH THIS ARRANGEMENT DO NOT PUT A303142 KEYS IN KB CARD CONNECTOR
14.	REFER TO RELATED SET DIAGRAMS FOR EXTERNAL CIRCUITRY.

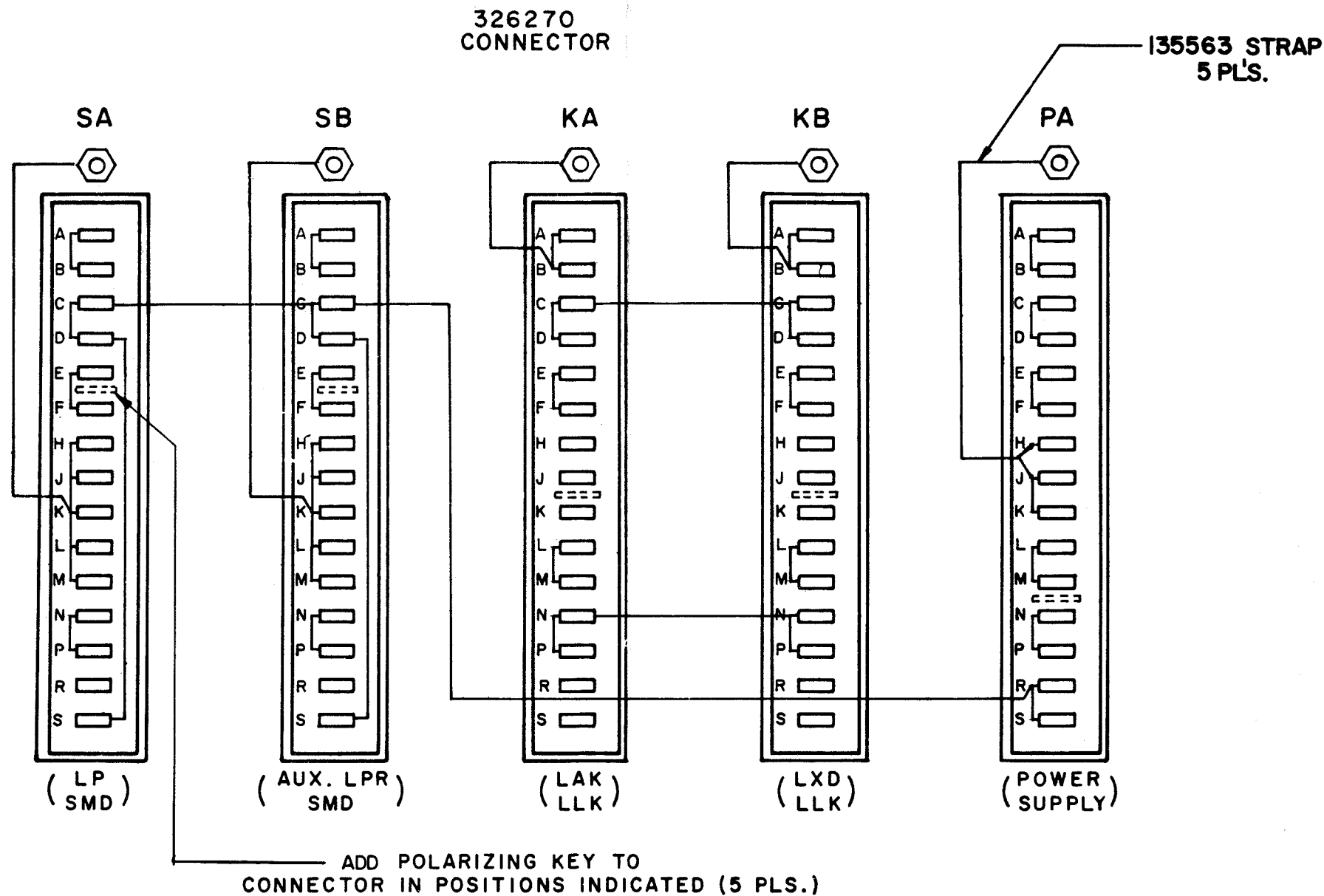
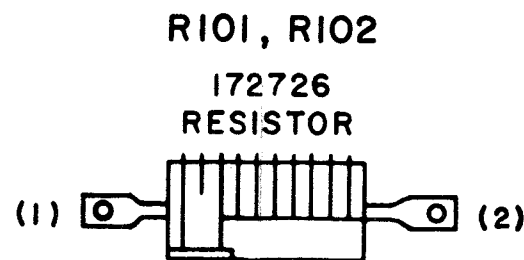
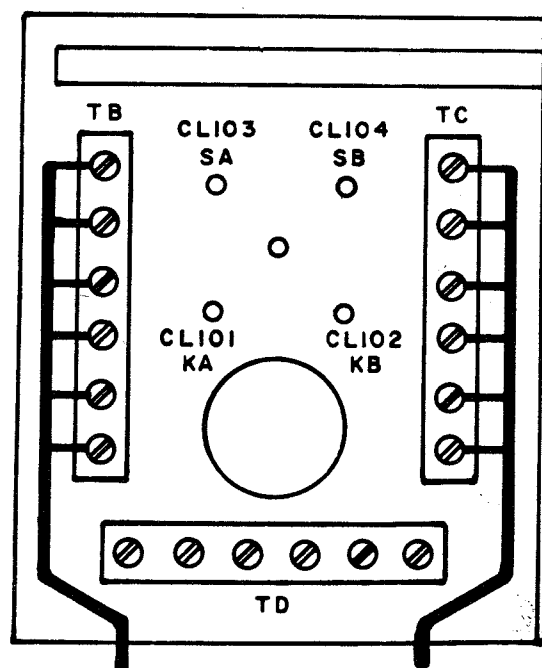


Figure 5-42. 323811 Electrical Service Assembly (Signal) Wiring Diagram (Sheet 2 of 5)

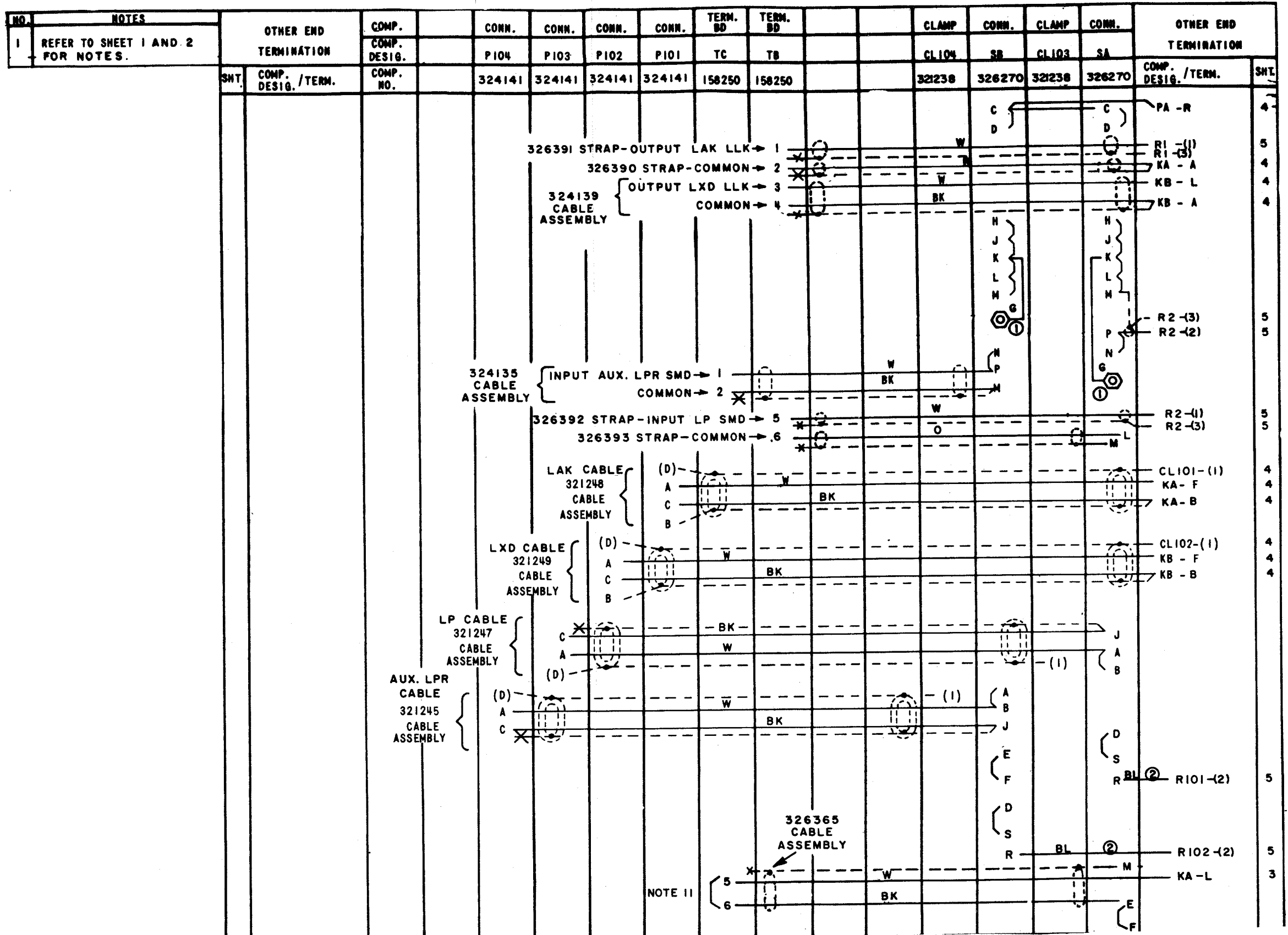


Figure 5-42. 323811 Electrical Service Assembly (Signal) Wiring Diagram (Sheet 3 of 5)

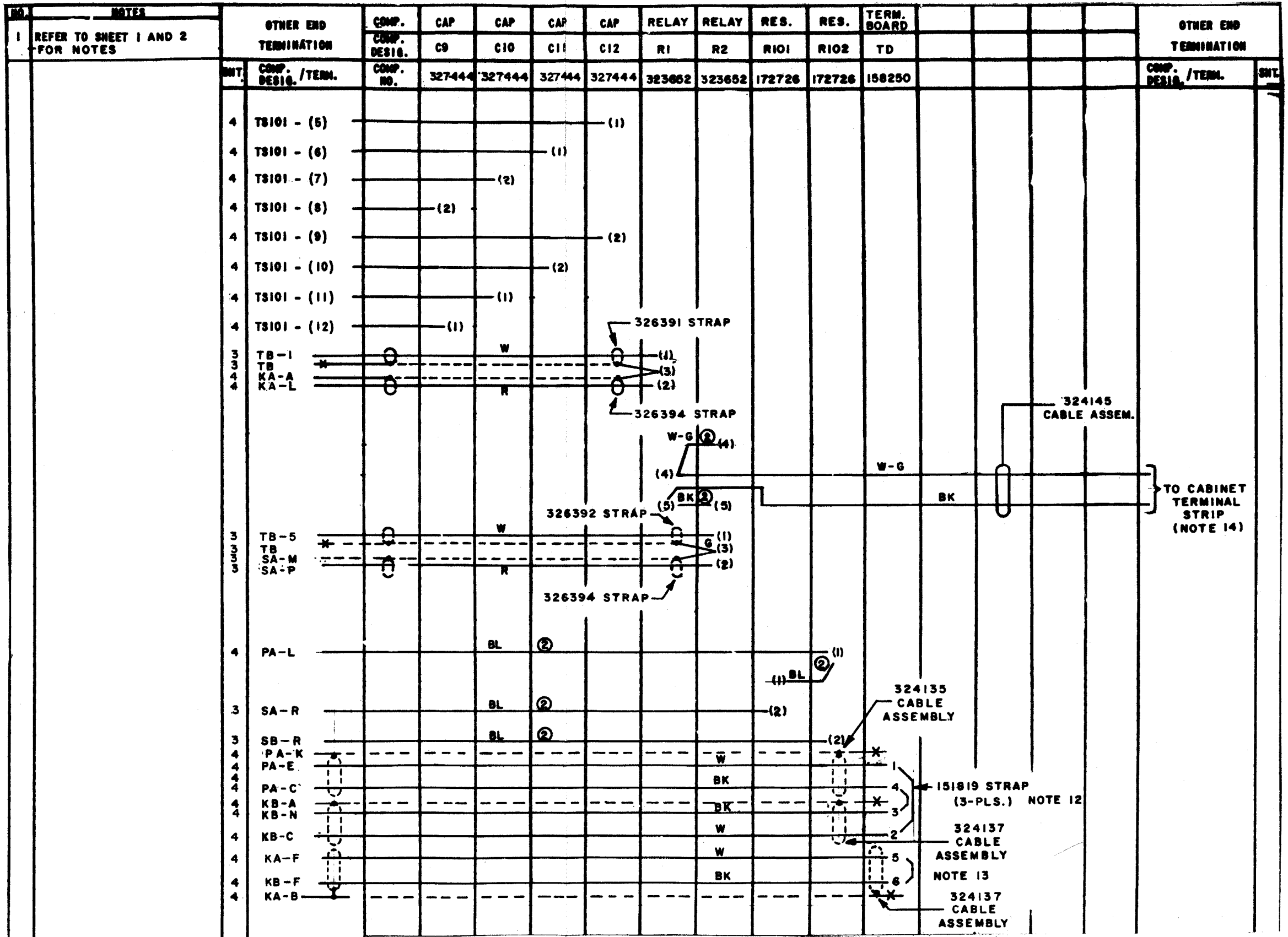







Figure 5-42. 323811 Electrical Service Assembly (Signal, Wiring Diagram (Sheet 5 of 5)

NO.	NOTES
1.	ALL RESISTORS 1/2 WATT. RESISTANCE VALUES IN OHMS. CAPACITANCE VALUES IN MICROFARDS UNLESS OTHERWISE SPECIFIED.
2.	 INDICATES FEMALE TERMINAL  INDICATES MALE TERMINAL
3.	 INDICATES CIRCUIT COMMON
4.	TERMINAL DESIGNATIONS ENCLOSED IN PARENTHESIS ARE FOR REFERENCE AND ARE NOT MARKED ON COMPONENT.
5.	SL-BL INDICATES SLOW-BLOWING
6.	REFER TO 8316WD FOR ACTUAL WIRING DIAGRAM.
7.	REFERENCE SPEC. FOR TELETYPE CORPORATION EMPLOYEES ONLY: 61.267S
8.	 INDICATES SINGLE SHIELDING  INDICATES DOUBLE SHIELDING
9.	T1 SECONDARY 50V AC TO CENTER TAP WITH 115V AC INPUT. 8 OHMS (MAX.) PRIMARY RESISTANCE 10 OHMS (MAX.) SECONDARY RESISTANCE TO CENTER TAP.
10.	REFER TO RELATED SET DIAGRAMS FOR EXTERNAL CIRCUITS.
11.	ALL VOLTAGES GIVEN WITH RESPECT TO CIRCUIT COMMON.
12.	+6VOLT INPUT CLUTCH MAGNETS ENERGIZED -6VOLT INPUT (OR OPEN LINE) CLUTCH MAGNETS DE-ENERGIZED.

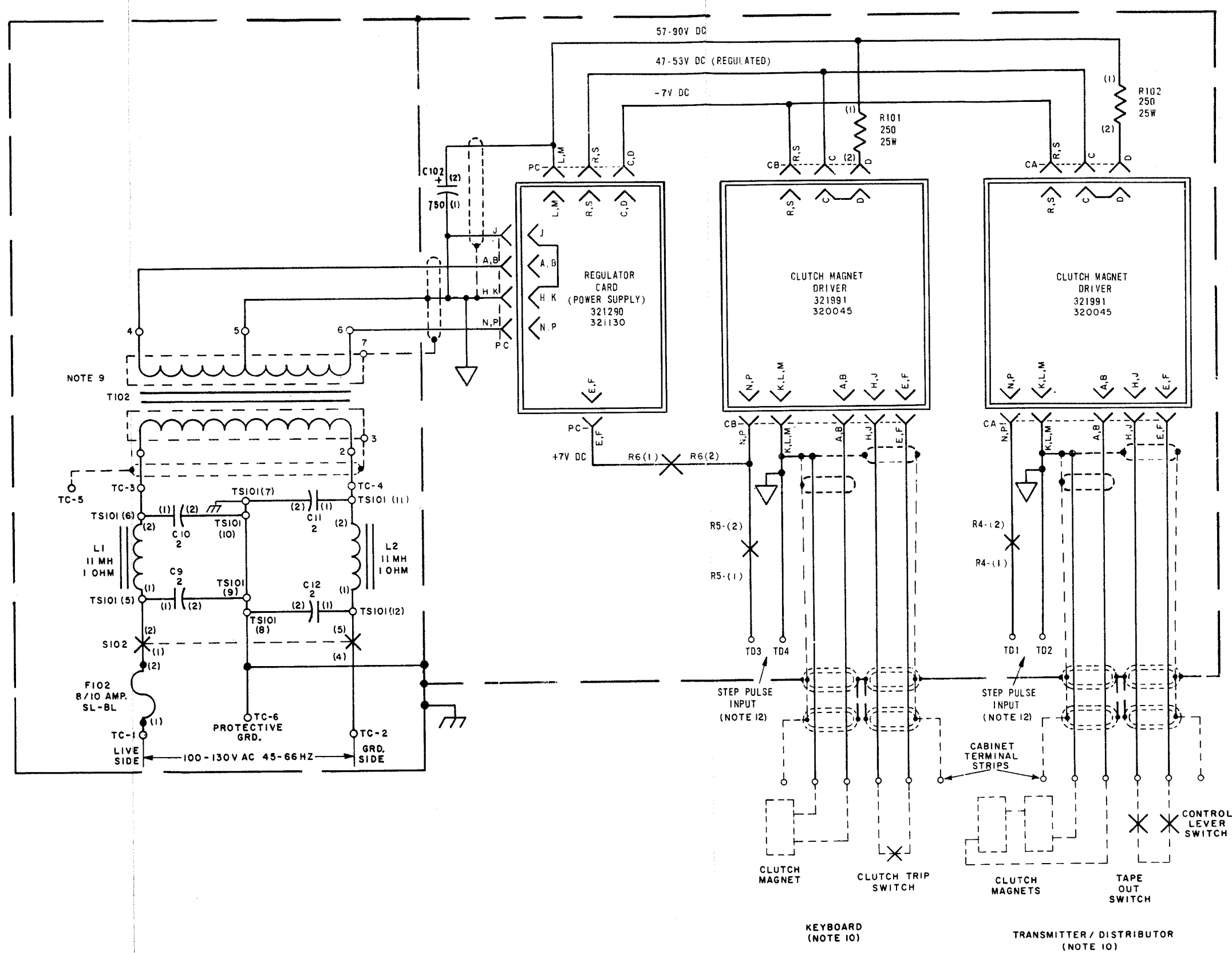
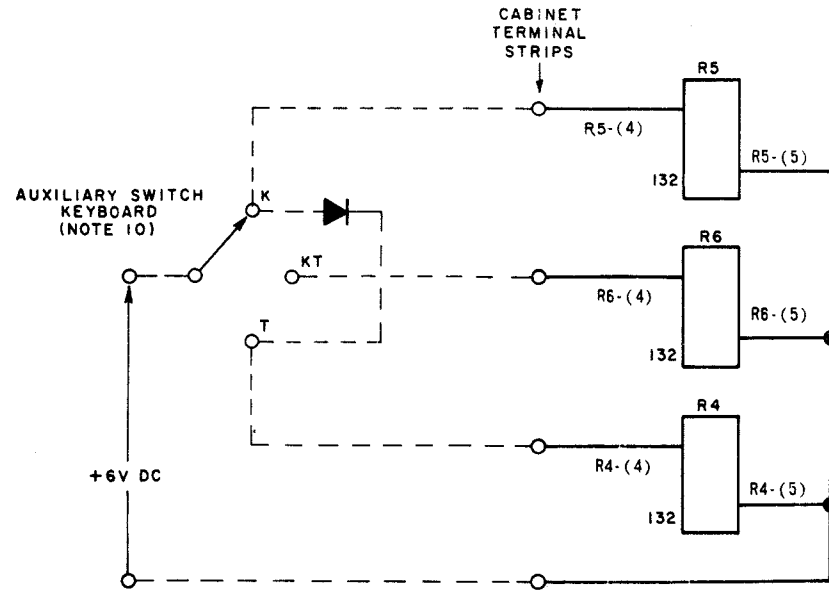


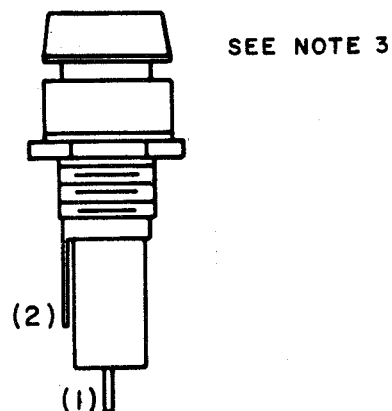


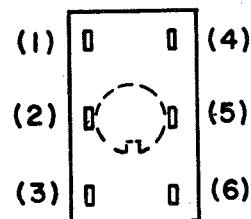
Figure 5-43. 323812 Electrical Service Assembly (Clutch) Schematic Wiring Diagram

NO.	NOTES
1.	ALL VOLTAGES DC UNLESS OTHERWISE SPECIFIED.
2.	TERMINAL DESIGNATION ENCLOSED IN PARENTHESIS ARE FOR REFERENCE AND ARE NOT MARKED ON COMPONENT.
3.	FUSE NUMBER: 162360 8/10 AMP. SLOW BLOWING.
4.	TERMINAL NUMBERS APPEAR ON ASSOCIATED MARKING STRIP.
5.	* INDICATES TO TAPE END TERMINATING POINT.
6.	 INDICATES SINGLE SHIELDING
7.	 INDICATES DOUBLE SHIELDING
8.	ALL STRAPPING WIRE 24 AWG BARE, 39603RM. USE SLEEVING WHERE REQUIRED. ① INDICATES 18 AWG STRANDED WIRE. ② INDICATES 24 AWG STRANDED WIRE. ③ INDICATES 24 AWG 2 LEAD SINGLE SHIELDED CABLE. ALL SURFACE WIRE 24 AWG GREEN, 31784 RM, UNLESS OTHERWISE SPECIFIED
9.	REFER TO 8405WD FOR SCHEMATIC WIRING DIAGRAM.
10.	COLOR CODE: BK-BLACK P-PURPLE BL-BLUE R-RED BR-BROWN S-SLATE G-GREEN W-WHITE O-ORANGE Y-YELLOW
11.	OUTER SHIELD CONNECTED TO BOX AT CONNECTOR.

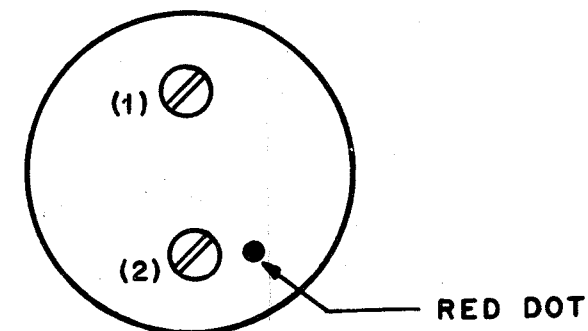
F102
116783
FUSE HOLDER



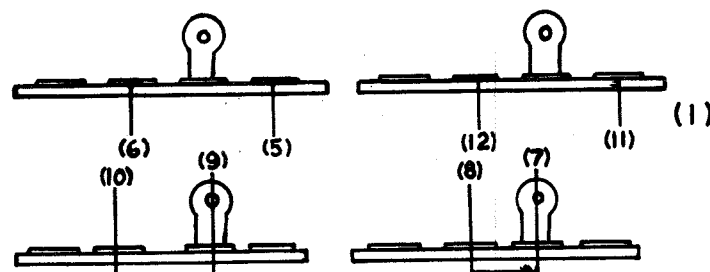
S102
118659
SWITCH



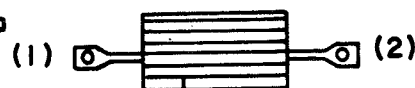
C102
321129
CAPACITOR



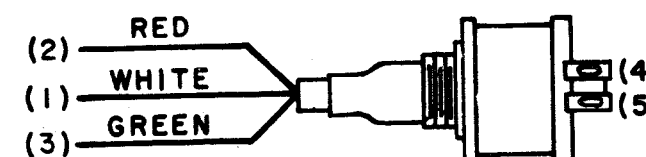
TS101
321207
TERMINAL STRIPS



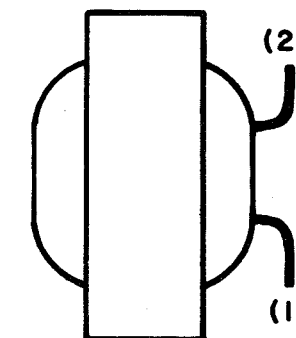
RI01, RI02
172726
RESISTOR



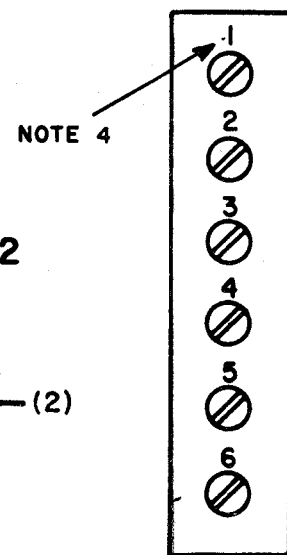
R4, R5, R6
323652
RELAY



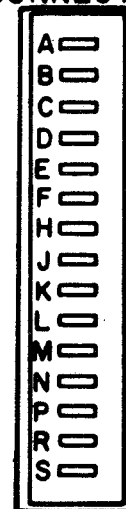
L1, L2
321133
CHOKE, FILTER



TC, TD
158250
TERMINAL BOARD



CA, CB, PC
326270
CONNECTOR



C9, C10, C11, C12
327444
CAPACITOR



T102
326351
TRANSFORMER ASSEM.

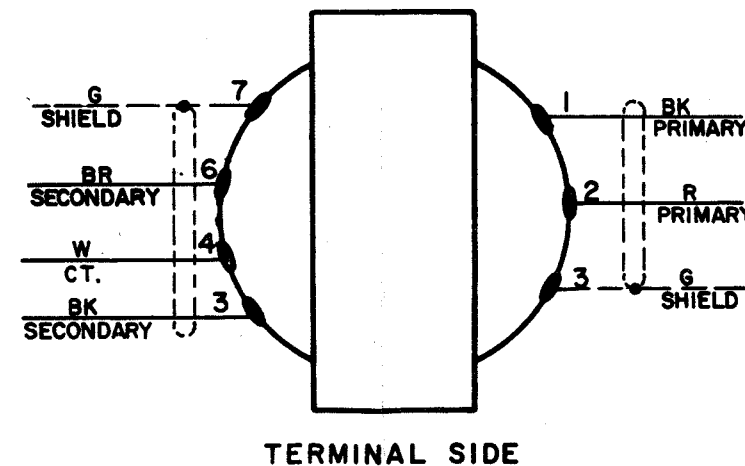
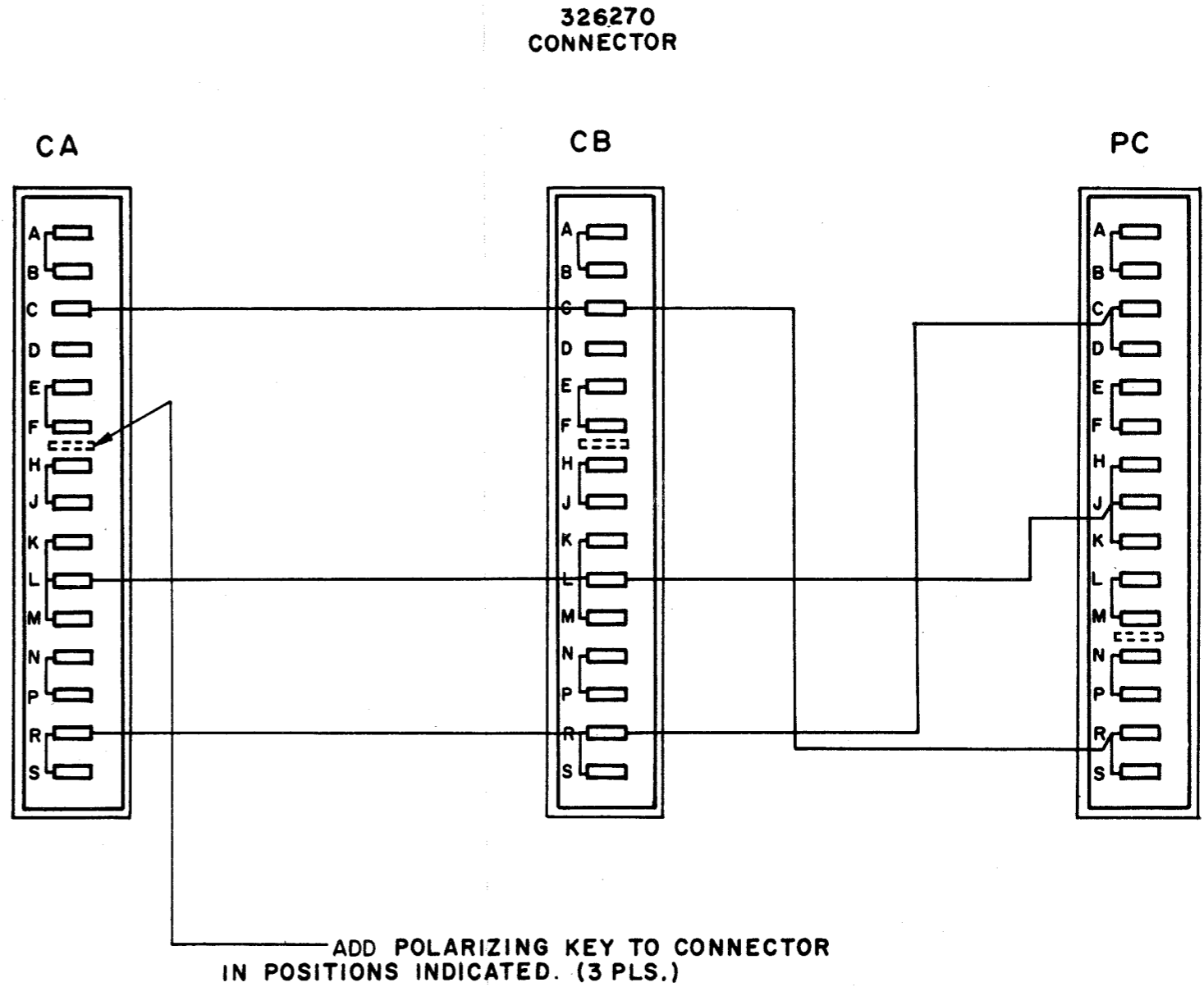
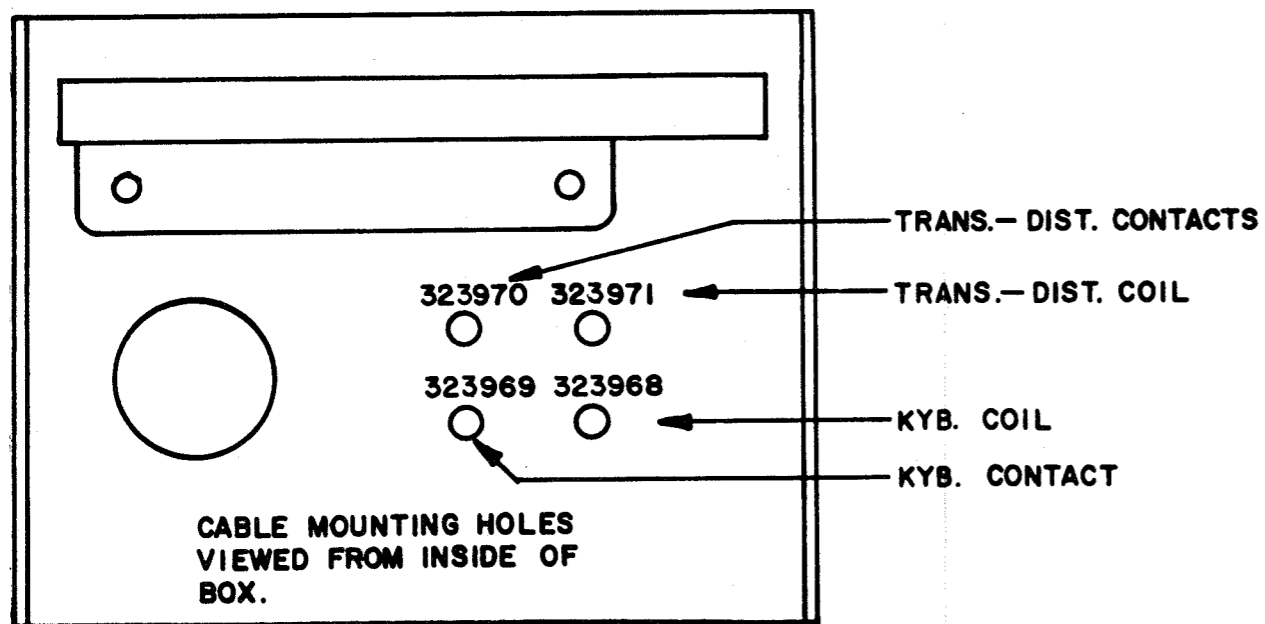


Figure 5-44. 323812 Electrical Service Assembly (Clutch) Wiring Diagram (Sheet 1 of 4)



SURFACE WIRING BETWEEN CARD CONNECTORS SHALL TAKE THE SHORTEST POSSIBLE ROUTE.

Figure 5-44. 323812 Electrical Service Assembly (Clutch) Wiring Diagram (Sheet 2 of 4)

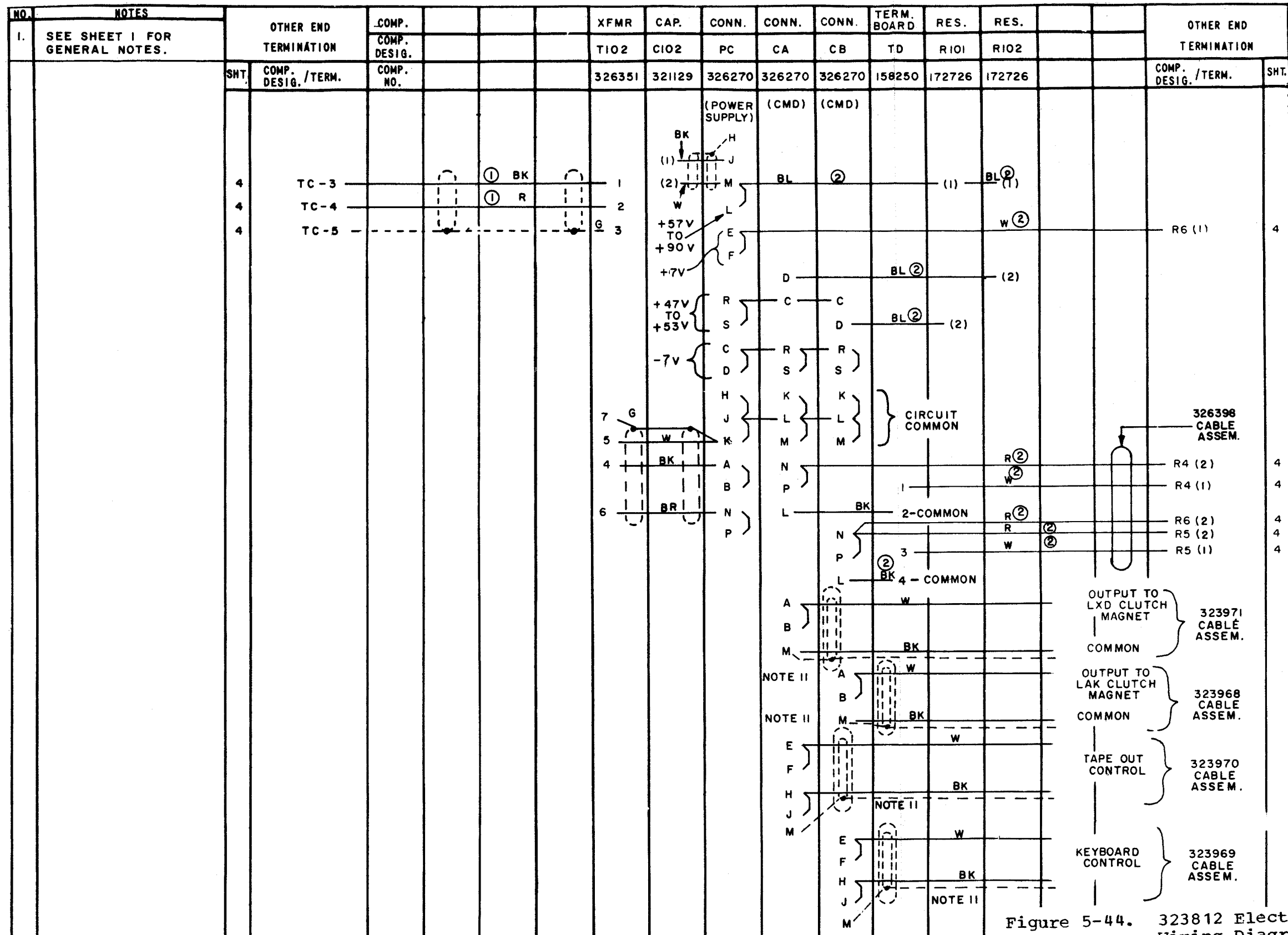


Figure 5-44. 323812 Electrical Service Assembly (Clutch) Wiring Diagram (Sheet 3 of 4)

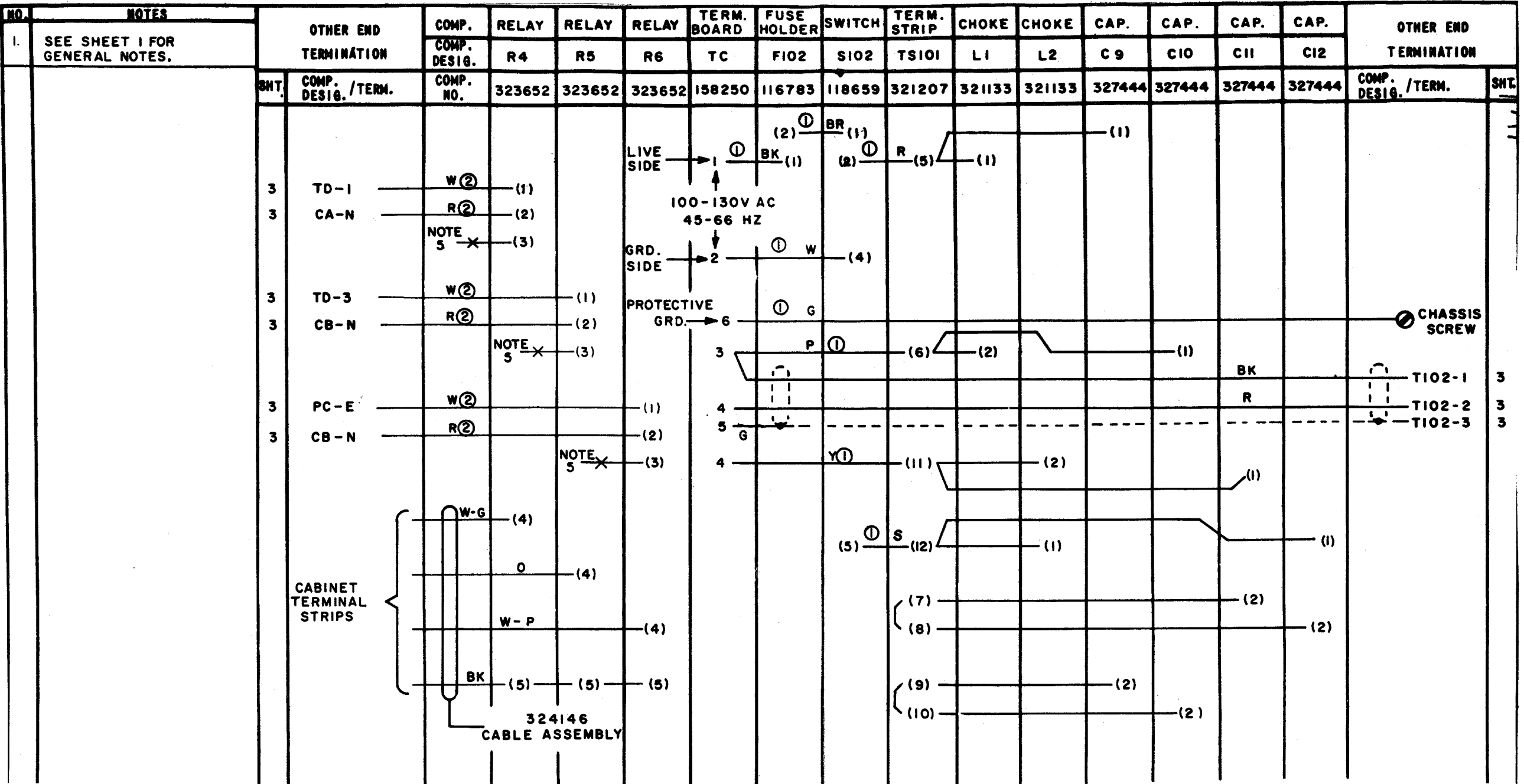


Figure 5-44. 323812 Electrical Service Assembly (Clutch) Wiring Diagram (Sheet 4 of 4)

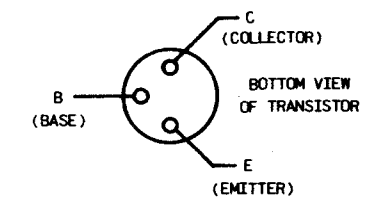
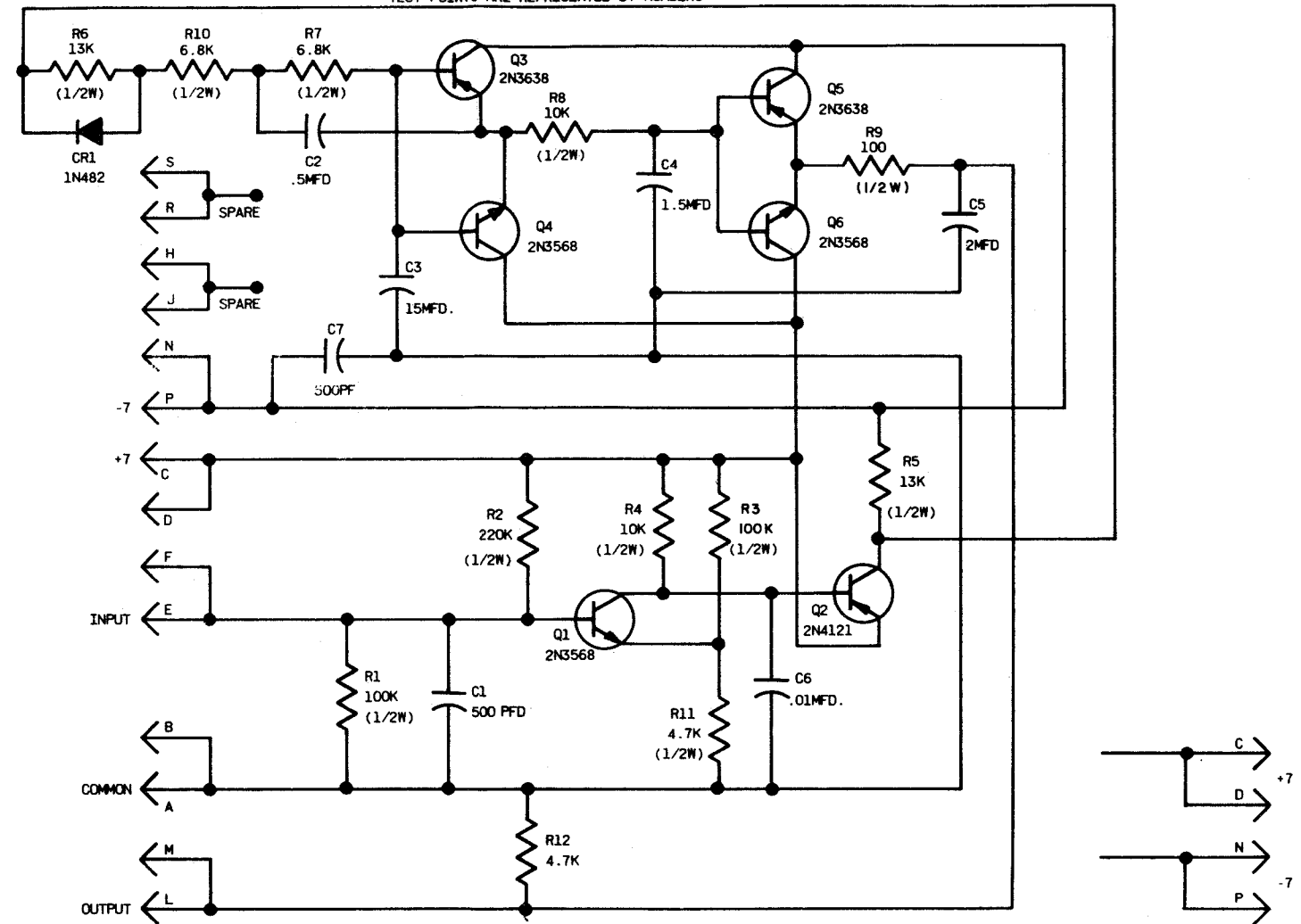
ALPHA NUMERIC CONVERSION CHART

STAMPING ON CIRCUIT BOARD	NUMERICAL CONVERSION FOR 15 PT. CARDS WHEN USED WITH 36 PT. CONNECTOR	
	WHEN INSERTED IN UPPER HALF OF CONNECTOR	WHEN INSERTED IN LOWER HALF OF CONNECTOR
A	1	22
B	2	23
C	3	24
D	4	25
E	5	26
F	6	27
H	7	28
J	8	29
K	9	30
L	10	31
M	11	32
N	12	33
P	13	34
R	14	35
S	15	36

REF DESIG.	PAR. NO. REQ.	QTY	DESCRIPTION	FUNCTION
R1	1:6720	2	RESISTOR 100K 5% 1/2W	RC FILTER
R2	118178	1	RESISTOR 220K 5% 1/2W	Q1 BASE BIAS
R3			RESISTOR SAME AS R1	Q1 EMITTER BIAS
R4	129854	2	RESISTOR 10K 5% 1/2W	Q1 COLLECTOR BIAS
R5	321204	2	RESISTOR 13K 1% 1/2W	Q2 COLLECTOR BIAS
R6			RESISTOR SAME AS R5	RC BIAS EQUALIZER
R7	118147	2	RESISTOR 6.8K 5% 1/2W	Q3,4 BASE BIAS
R8			RESISTOR SAME AS R4	Q5,6 BASE BIAS
R9	137438	1	RESISTOR 100Ω 5% 1/2W	RC FILTER
R10			RESISTOR SAME AS R7	Q3,4 BASE BIAS
R11	118146	2	RESISTOR 4.7K 5% 1/2W	Q1 EMITTER BIAS
R12			RESISTOR SAME AS R11	OUTPUT LOAD
CR1	181619	1	DIODE 1N482	R6 SHUNT SWITCH
C1	321157	2	CAPACITOR 500 PFD	INPUT FILTER
C2	320048	1	CAPACITOR .5 MFD.	ACTIVE FILTER FEEDBACK
C3	320049	2	CAPACITOR .15 MFD.	ACTIVE FILTER INTEGRATOR
C4			CAPACITOR SAME AS C3	RC FILTER INTEGRATOR
C5	320047	1	CAPACITOR 2 MFD	RC FILTER INTEGRATOR
Q1	315930	3	TRANSISTOR, 2N3568	1st AMPLIFIER
Q2	324144	1	TRANSISTOR 2N4121	2nd AMPLIFIER
Q3	315931	2	TRANSISTOR 2N3638	ACTIVE COMPLIMENTARY FILTER
Q4			TRANSISTOR SAME AS Q1	ACTIVE COMPLIMENTARY FILTER
Q5			TRANSISTOR SAME AS Q3	COMPLIMENTARY SYMMETRY EMITTER
Q6			TRANSISTOR SAME AS Q1	FOLLOWER AMPLIFIER
C6	181618	1	CAPACITOR .01MFD	RC FILTER
C7			CAPACITOR SAME AS C1	RF BY PASS
EC	320051	1	BOARD, ETCHED CIRCUIT	
		1	STRAP, BARE 24 AWG.	
	324147	1	PAD, TRANSISTOR	
	144495	5	PAD, TRANSISTOR	

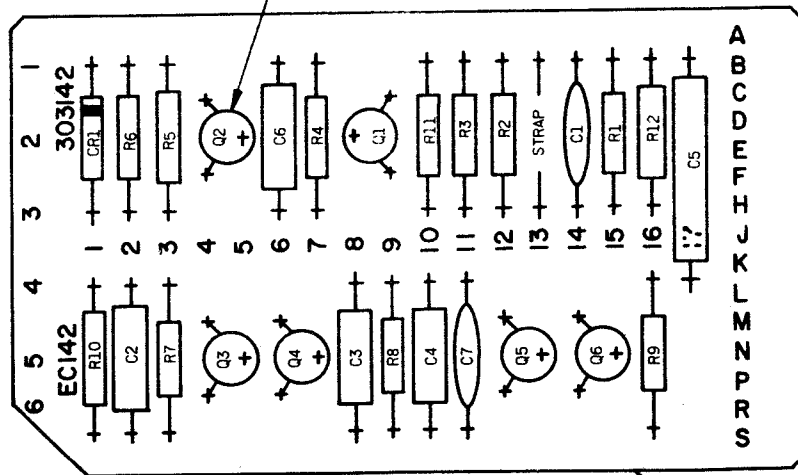
POLAR LINE KEYS ± 6V

NOTE: CARD CONNECTIONS ARE REPRESENTED BY LETTERS
TEST POINTS ARE REPRESENTED BY NUMBERS



NOTE: MANUFACTURE PER MR200L
REFER TO 5016WD FOR MARKING INFORMATION.

USE 324147 PAD UNDER Q2



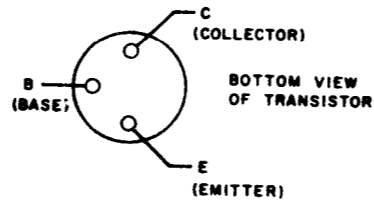
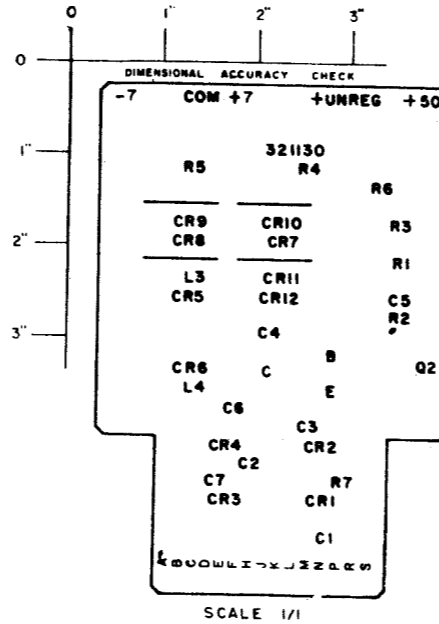
320051

Figure 5-47. ILK Polar Line Keyer 303142 Circuit Card Wiring Diagram

CIRCUIT BOARD ASSEMBLY, POWER SUPPLY (47-53V.D.C. .5AMP. MAX.)				
REF. DESIGN.	PART NO.	TOTAL QTY.	NAME AND DESCRIPTION	FUNCTION
C1	312284	1	CAPACITOR, 1.5 MFD 400V	RF FILTER
C2,3	171585	2	CAPACITOR, .22MFD 200V	RF FILTER
C4	171831	1	CAPACITOR, 10MFD 150V	RECTIFIER FILTER
C5	178860	1	CAPACITOR, .022MFD 100V	RF FILTER
C6,7	32385	2	CAPACITOR, .1MFD 10V	RF FILTER
R1	198937	1	RESISTOR, 2.7K 2W	
R2	182180	2	RESISTOR, 200 OHM 1/2W	
R3	171533	1	RESISTOR 4 OHM 5W	
R4,5	311664	2	RESISTOR, 2.5K 8W	DROPPING
R6			SAME AS R2	RF FILTER
R7	305298	1	RESISTOR, 3.3K 3W	BLEEDER
CR1-4	182520	4	DIODE (1N4383)	RECTIFIER
CR5,6	327794	2	DIODE, ZENER (7.2V)	REFERENCE
CR7	321286	2	DIODE, ZENER (1N4749A)	REFERENCE
CR8-11	178844	4	VARIATOR (W.E. 100A)	REFERENCE
CR12			SAME AS CR7	REFERENCE
L3,4	321159	2	INDUCTOR 39 uH	RF FILTER
Q2	321145	1	TRANSISTOR (2N2270)	GAIN
FC1,2	311068	2	FUSE CLIP	
F102	131807	1	FUSE .5 AMP.	
TP1	320042	1	JACK, TEST (SLATE)	
TP2	320041	1	JACK, TEST (GREEN)	
TP3	320039	1	JACK, TEST (BLACK)	
TP4	320040	1	JACK, TEST (ORANGE)	
TP5	320038	1	JACK, TEST (RED)	
PI-3	137471	3	TERMINAL POST	CONNECTOR
	321140	1	CIRCUIT CARD	
SI-S4	336470	4		
1	151637	2	SCREW 4-40	
2	151880	2	NUT 4-40	
3	110743	2	LOCK WASHER	
4	125011	2	FLAT WASHER	

CIRCUIT DESCRIPTION (SEE SHEET 2)

DIODES CR1 AND CR3 FORM A RECTIFIER WITH ASSOCIATED TRANSFORMER (321123) T1 AND CAPACITOR C8 (321129) TO OBTAIN A MINIMUM -58V DC UNREGULATED. Q1 IS AN EMITTER FOLLOWER VOLTAGE REGULATING ELEMENT WHICH ABSORBS THE VOLTAGE DIFFERENCE BETWEEN THE UNREGULATED DC AND THE CONSTANT -50V DC REFERENCE ESTABLISHED BY DIODES CR7-CR12. Q2 PROVIDES GAIN FOR Q1. DIODES CR3,CR4, TRANSFORMER T1 AND CAPACITOR C4 FORM A FULL WAVE RECTIFIER TO OBTAIN NEGATIVE UNREGULATED DC. R4 AND CR6, R5 AND CR5 FORM BASIC SHUNT REGULATORS TO OBTAIN +7 AND -7V DC.



- 1) TELETYPE REFERENCE ONLY: SPECIFICATION 61,267S
- 2) SEE SHEET 2 FOR SCHEMATIC WIRING
- 3) ALL CHARACTERS TO BE .125 HIGH AND PRINTED WITH WHITE ENAMEL.
- 4) ALL PRINTED CHARACTERS TO BE LOCATED ±.031 FROM NOMINAL POSITION.

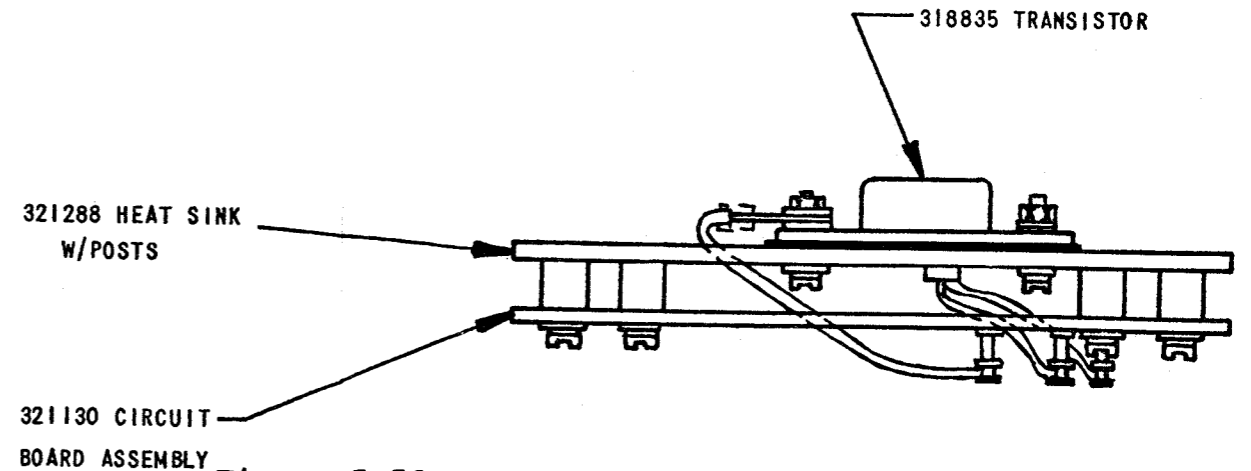
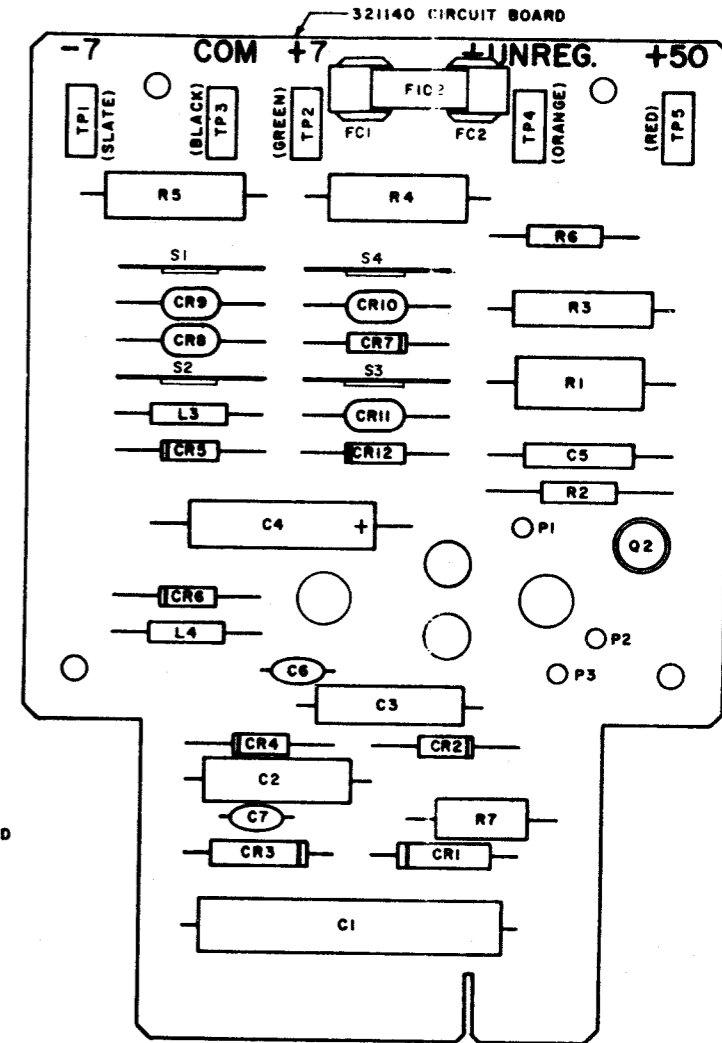


Figure 5-50. 321290 Circuit Board Assembly w/Heat Sink (Sheet 1 of 2)

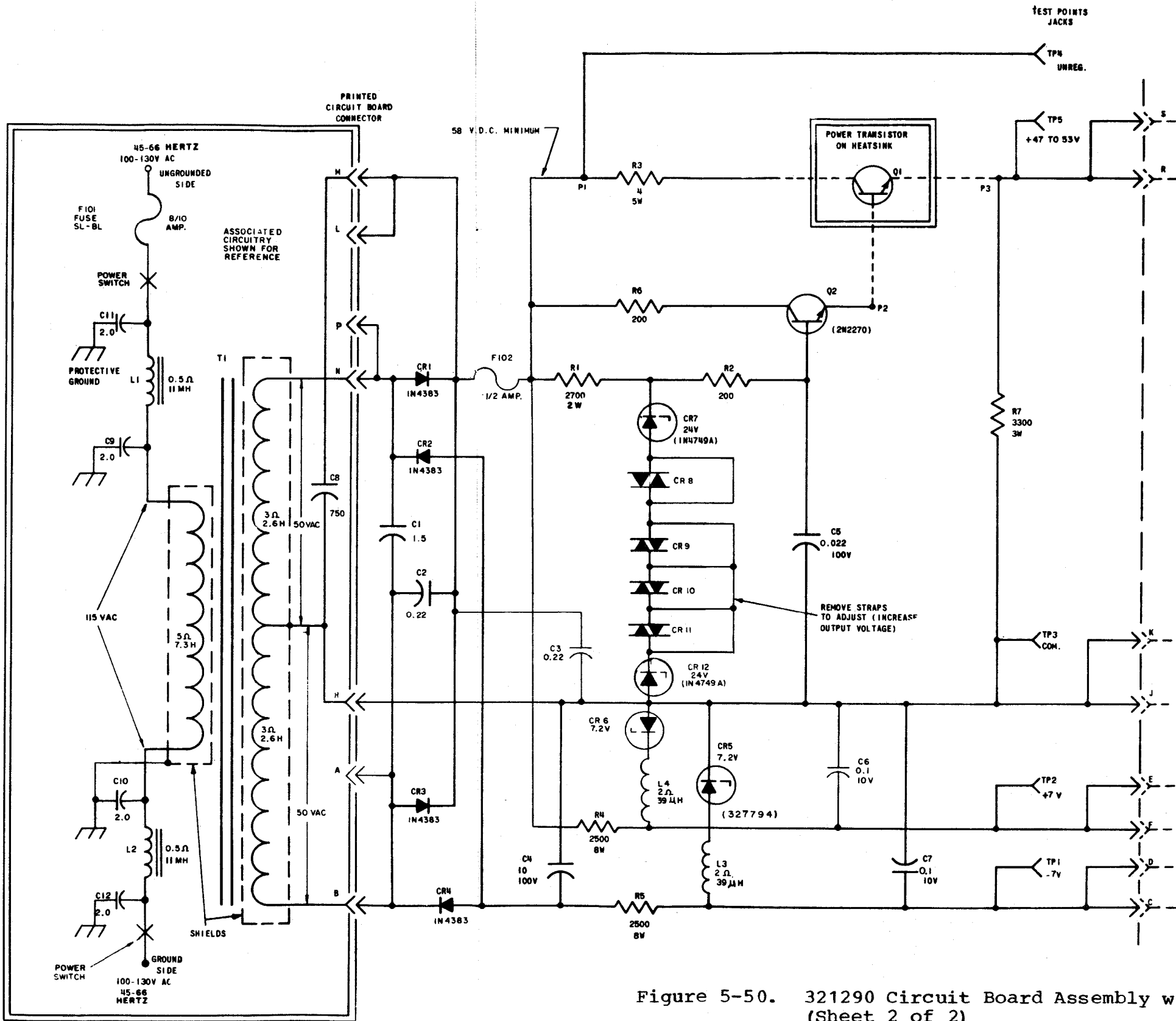


Figure 5-50. 321290 Circuit Board Assembly w/Heat Sink (Sheet 2 of 2)

NO	NOTES
1.	R3 AND R15 ARE ADJUSTED FOR SYMMETRICAL SWITCHING ABOUT ZERO VOLTS FOR INPUT 1 AND 2 RESPECTIVELY.
2.	PINS A, B - 60MA TO COILS PINS C, D - 47 TO 53V DC POWER INPUT PINS N, P - MS 188B SIGNAL INPUT 1 PINS E, F - MS 188B SIGNAL INPUT 2 PINS H, J, K, L, M, - CIRCUIT COMMON (ALL INPUTS AND OUTPUTS REFERRED TO CIRCUIT COMMON).
3.	REFERENCE SPEC. FOR TELETYPE CORP. EMPLOYEES ONLY: 61,264S.
4.	ALL RESISTORS ARE 5%, 1/2 WATT UNLESS OTHERWISE SPECIFIED.
5.	ALL CAPACITANCE VALUES IN PICOFARADS UNLESS OTHERWISE SPECIFIED.
6.	∇ DENOTES CIRCUIT COMMON.

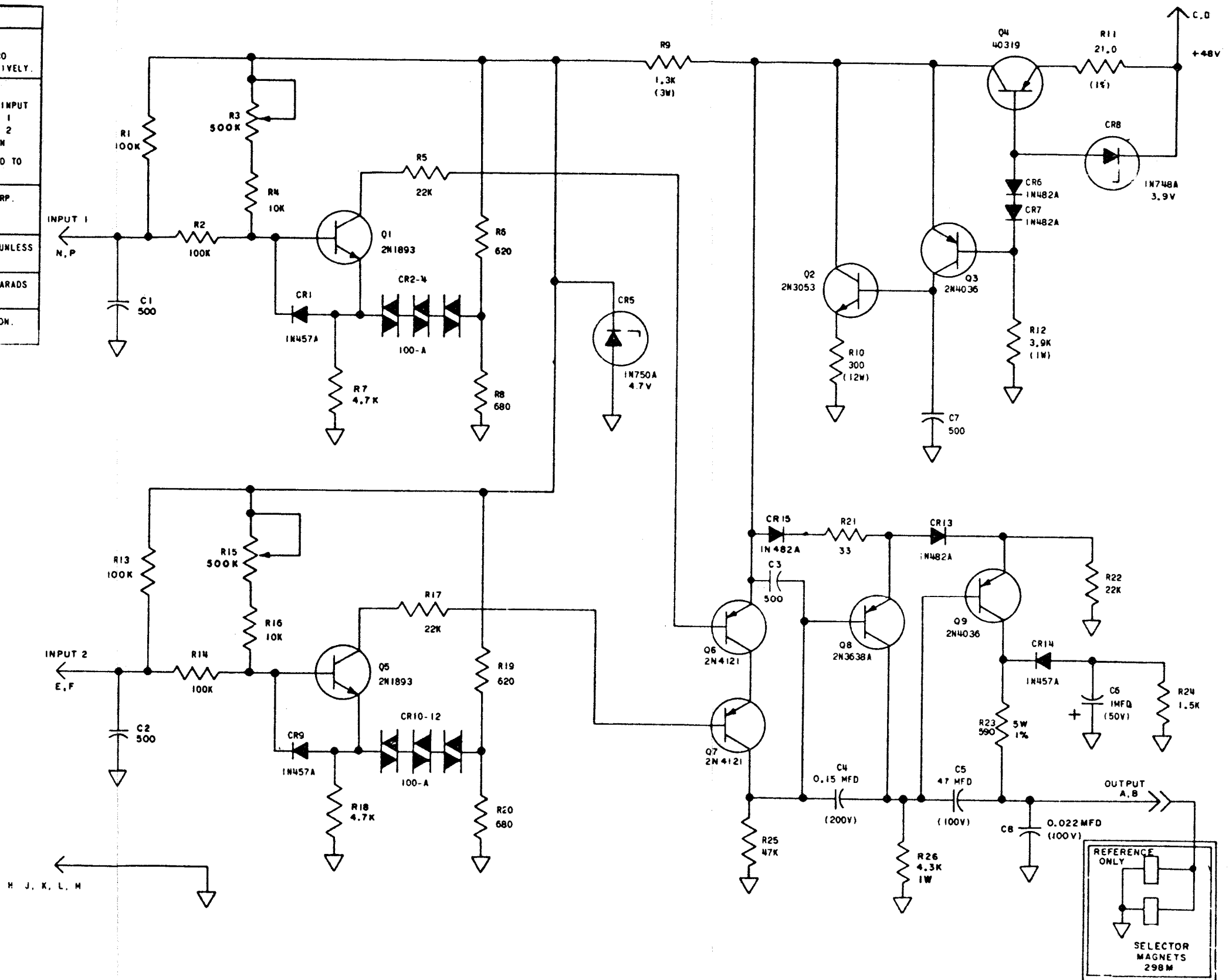


Figure 5-51. 323810 Selector Magnet Driver (SMD) With Signal Combiner Schematic Wiring Diagram (Sheet 1 of 2)

REF. DESIG.	TELETYPE PART NO.	TOTAL QTY.	NAME AND DESCRIPTION	LOCATING FUNCTION
C1	321157	1	CAPACITOR, 500 pF	R.F. BY-PASS CAP.
C2	321157	1	CAPACITOR, 500 pF	R.F. BY-PASS CAP.
C3	321157	1	CAPACITOR, 500 pF	R.F. BY-PASS CAP.
C4	171828	1	CAPACITOR, .15 MFD	Q2 FEEDBACK CAP.
C5	326776	1	CAPACITOR, .47 MFD	Q2 FEEDBACK CAP.
C6	321280	1	CAPACITOR, 1 MFD 50V	TRANSIENT SUPP.
C7	321157	1	CAPACITOR, 500 pF	R.F. BY-PASS CAP.
C8	178880	1	CAPACITOR, .022 MFD	R.F. BY-PASS CAP.
R1	118720	1	RESISTOR, 100K, 1/2W	Q1 OPEN LINE BIAS
R2	118720	1	RESISTOR, 100K, 1/2W	INPUT 1 RES
R3	323948	1	POTENTIOMETER 500K	Q1 BIAS
R4	128054	1	RESISTOR, 10K, 1/2W	Q1 BIAS
R5	118177	1	RESISTOR, 22K, 1/2W	Q1 LOAD RES.
R6	127604	1	RESISTOR, 620, 1/2W	VOLTAGE DIVIDER
R7	118146	1	RESISTOR, 4.7K, 1/2W	Q1 EMITTER RES.
R8	128050	1	RESISTOR, 680, 1/2W	VOLTAGE DIVIDER
R9	309868	1	RESISTOR, 1.2K, 2W	CR5 CURRENT LIMITER
R10	323841	1	RESISTOR, 300, 12W	Q2 LOAD RES.
R11	323842	1	RESISTOR, 21, 1/2W, 15	REG. CURRENT SET
R12	178884	1	RESISTOR, 3.9K, 1W	CR5 CURRENT LIMITER
R13	118720	1	RESISTOR, 100K, 1/2W	Q5 OPEN LINE BIAS
R14	118720	1	RESISTOR, 100K, 1/2W	INPUT 2 RES.
R15	323264	1	POTENTIOMETER 500K	Q5 BIAS
R16	128054	1	RESISTOR, 10K, 1/2W	Q5 BIAS
R17	118177	1	RESISTOR, 22K, 1/2W	Q5 LOAD RES.
R18	118146	1	RESISTOR, 4.7K, 1/2W	Q5 EMITTER RES.
R19	127604	1	RESISTOR, 620, 1/2W	VOLTAGE DIVIDER
R20	128050	1	RESISTOR, 680, 1/2W	VOLTAGE DIVIDER
R21	321976	1	RESISTOR, 33, 1/2W	Q6 EMITTER RES.
R22	118177	1	RESISTOR, 22K, 1/2W	CR12 BIAS RES.
R23	323843	1	RESISTOR, 590, 5W, 12	COIL CURRENT LIMITER
R24	127442	1	RESISTOR, 1.5K, 1/2W	CR5 BLEEDER RES.
R25	118158	1	RESISTOR 475, 1/2W	Q6, Q7 LOAD RES.
R26	120424	1	RESISTOR 4.3K, 1W	Q6 LOAD RES.
CR1	321158	1	DIODE, 1N457A	Q1 BASE PROT.
CR2	178844	1	VARIATOR, 100-A	TEMP. COMP.
CR3	178844	1	VARIATOR, 100-A	TEMP. COMP.
CR4	178844	1	VARIATOR, 100-A	TEMP. COMP.
CR5	178844	1	VARIATOR, 100-A	TEMP. COMP.
CR6	181667	1	DIODE, 1N750A	TEMP. COMP. REF.
CR7	321156	1	DIODE, 1N424	Q1 COLLECTOR CLAMP
CR8	321161	1	DIODE, 1N748A	REG. VOLT. REF.
CR9	321156	1	DIODE, 1N457A	Q5 BASE PROT.
CR10	178844	1	VARIATOR, 100-A	TEMP. COMP.
CR11	178844	1	VARIATOR, 100-A	TEMP. COMP.
CR12	178844	1	VARIATOR, 100-A	TEMP. COMP.
CR13	321156	1	DIODE, 1N424	Q2 EMITTER DIODE
CR14	321156	1	DIODE, 1N457A	TRANSIENT SUPP.
CR15	321156	1	DIODE, 1N424	Q6 EMITTER DIODE
Q1	321166	1	TRANSISTOR, 2N1933	DC AMP.
Q2	323844	1	TRANSISTOR, 2N3055	SHUNT REG.
Q3	321261	1	TRANSISTOR, 2N4026	SHUNT REG. AMP.
Q4	323845	1	TRANSISTOR, 60919	SERIES REG.
Q5	321166	1	TRANSISTOR, 2N1933	DC AMP.
Q6	326144	2	TRANSISTOR, 2N4121	DC AMP.
Q7			SAME AS Q6	
Q8	321165	1	TRANSISTOR, 2N3438A	DC AMP.
Q9	321261	1	TRANSISTOR, 2N4026	DC AMP.
	324197	2	PAD, TRANSISTOR	
	144495	1	PAD, TRANSISTOR	
	323846	1	PAD, TRANSISTOR	
	323847	1	HEAT SINK	
	323835	1	CIRCUIT BOARD, ETCHED	
	300116	1	COVER, INSULATING	

ASSEMBLY, CIRCUIT (SMD WITH SIGNAL COMBINER)

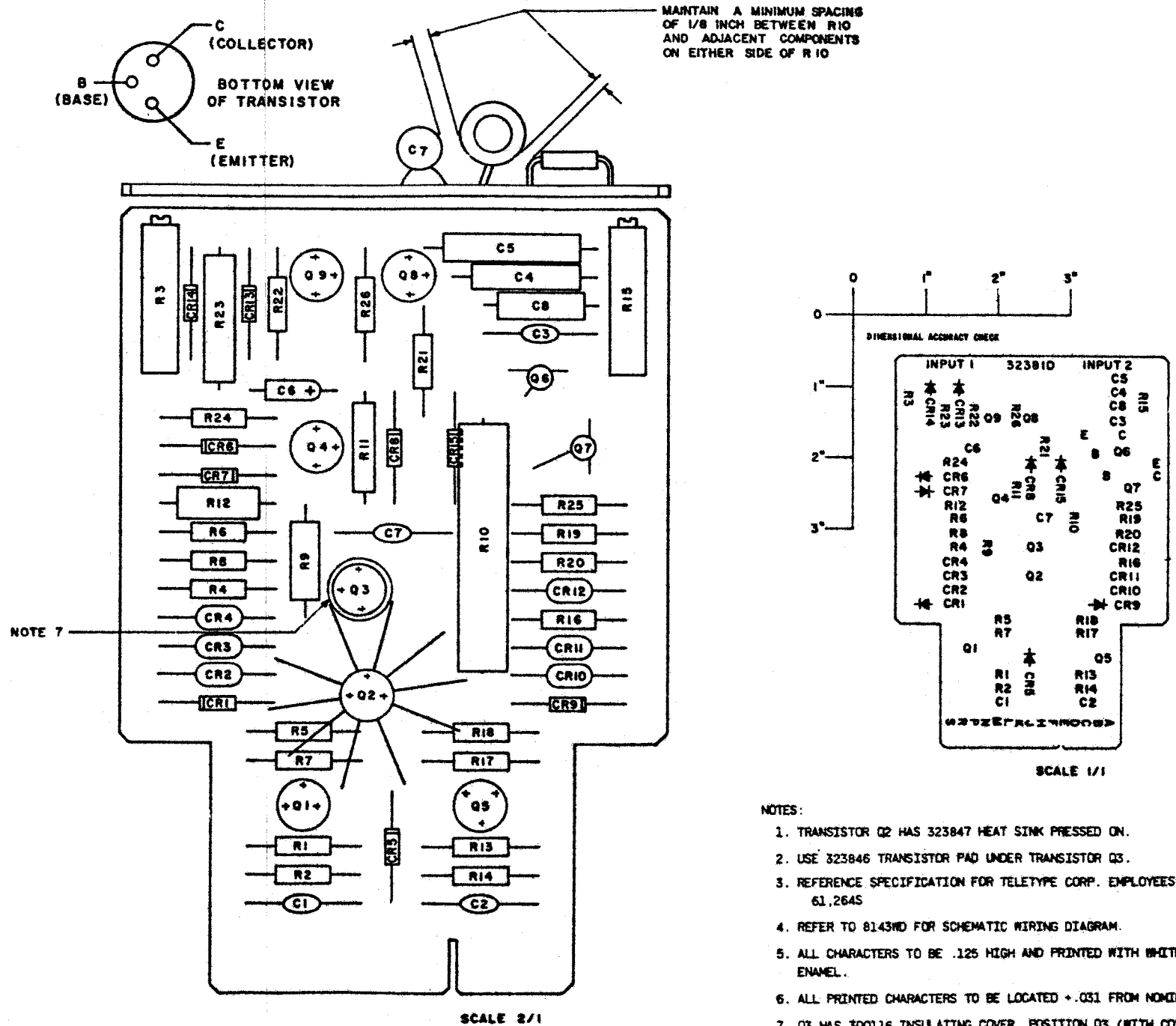
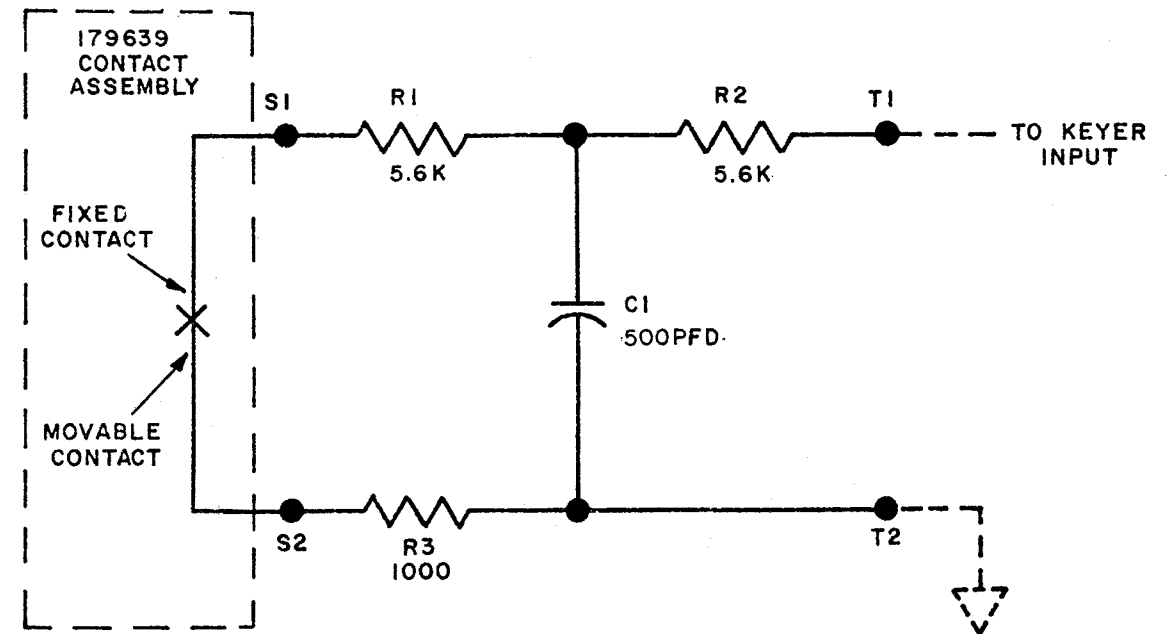
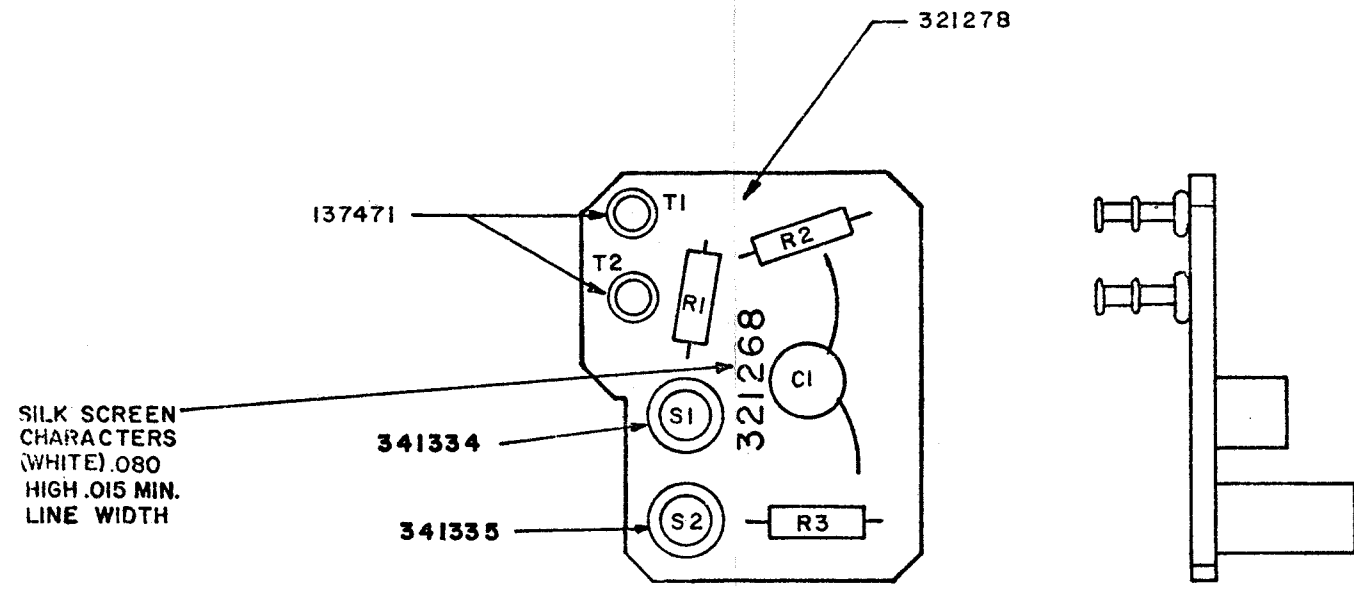


Figure 5-51. 323810 Selector Magnet Driver (SMD) With Signal Combiner Schematic Wiring Diagram (Sheet 2 of 2)



NOTE:
DASHED LINES INDICATE EXTERNAL CIRCUITRY.

REF. DESIGN	TELETYPE PART NO.	TOTAL QTY.	NAME AND DESCRIPTION	LOCATING FUNCTION
R1	315960	2	RESISTOR, 5.6K 1/4 WATT	RC FILTER
R2	"		SAME AS R1	"
R3	321213	1	RESISTOR, 1000 Ω 1/4 WATT	"
C1	321157	1	CAPACITOR, 500 PFD	"
T1	137471	2	TERMINAL, SOLDER	
T2	"		"	
S1	341334	1	STUD, CONNECTOR	
S2	341335	1	"	
321278	321278	1	BOARD, ETCHED CIRCUIT	

Figure 5-52. 321268 Filter Card Assembly

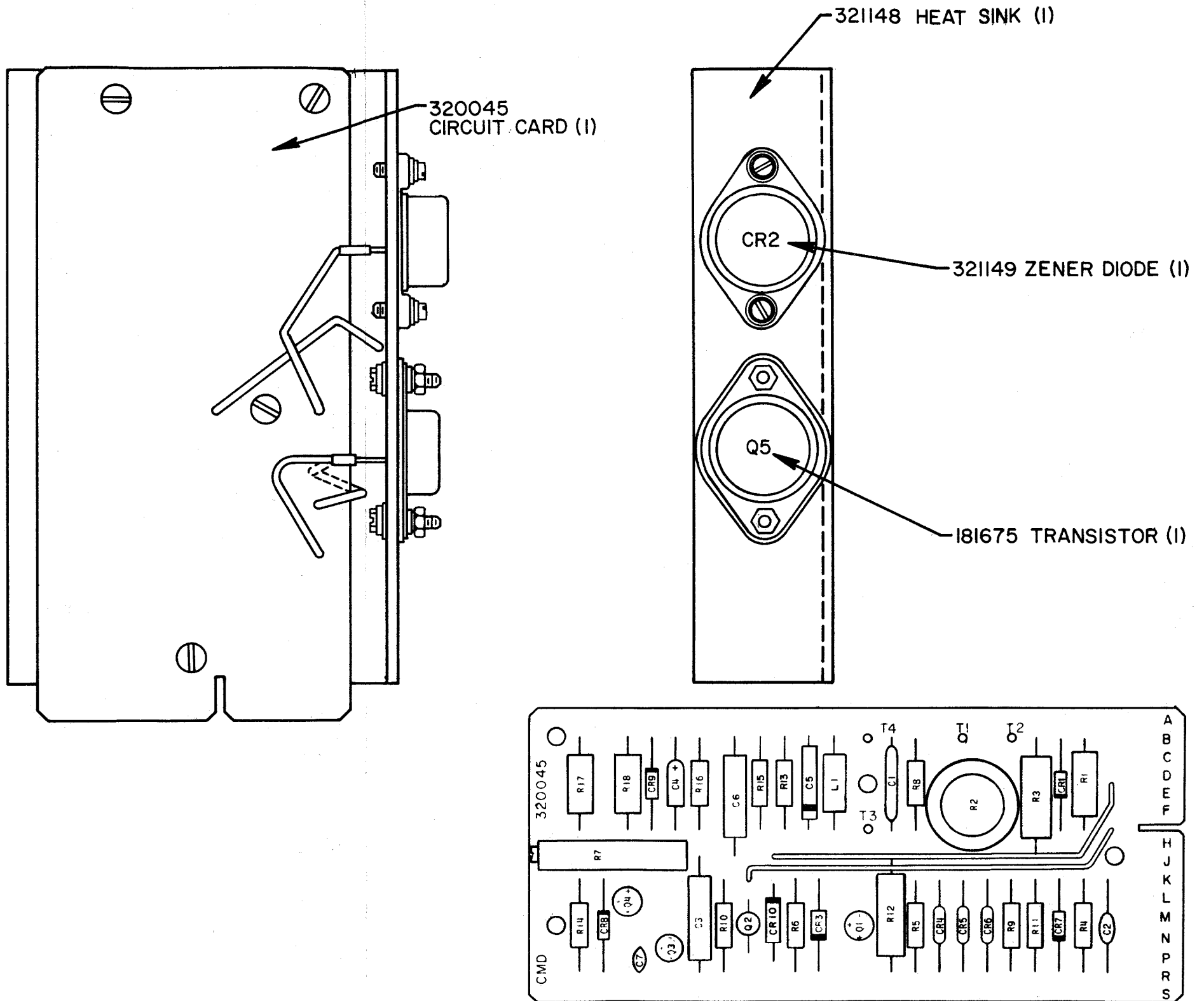


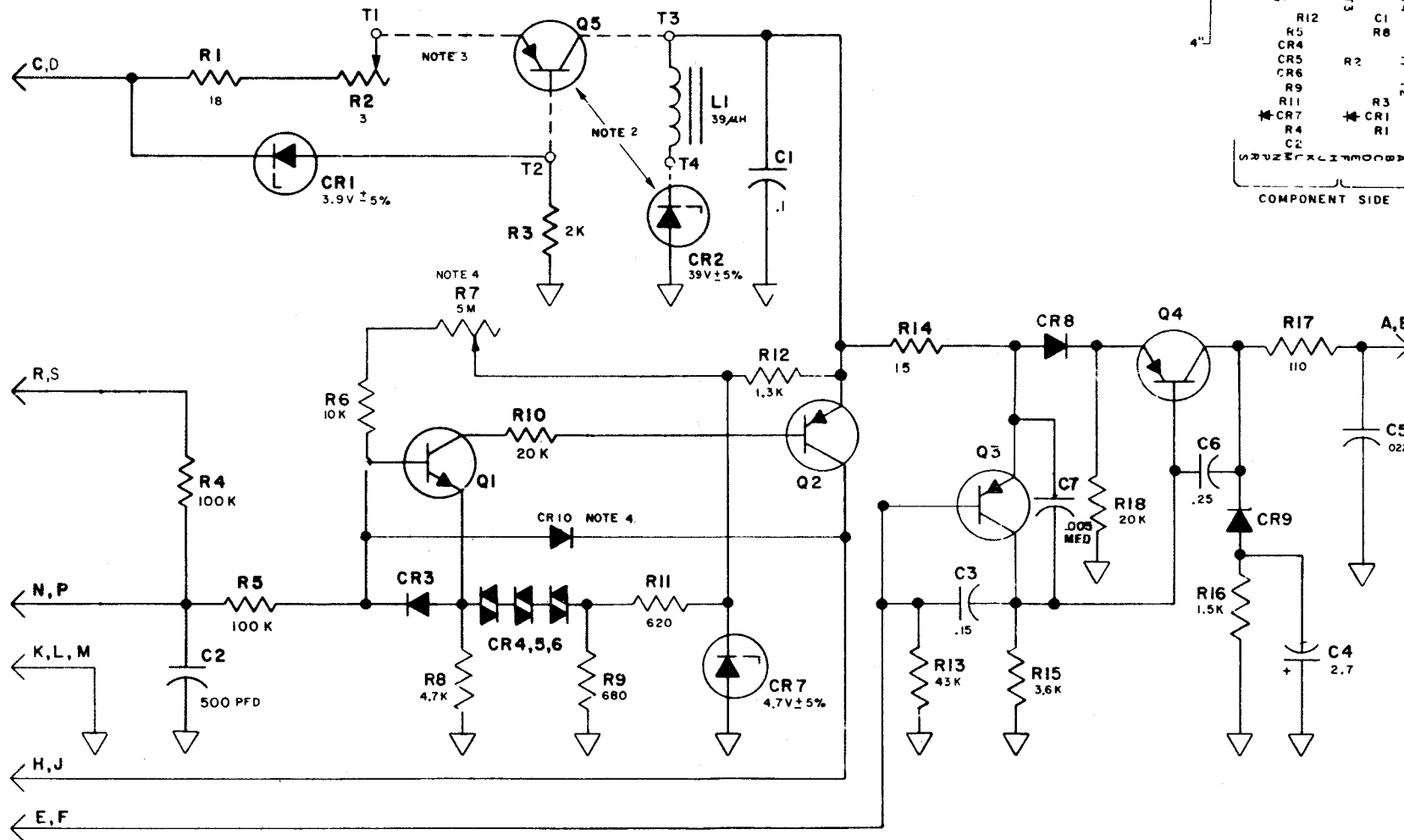
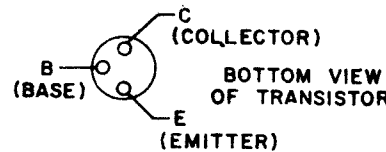
Figure 5-53 Clutch Magnet Driver 321991 (Sheet 1 of 2)

USED ON 321991
NO B/M

ASSEMBLY, CIRCUIT CARD (CMD)				
REF. DESIG.	TELETYPE PART NO.	TOTAL QTY.	NAME AND DESCRIPTION	LOCATING FUNCTION
R1	327793	1	RESISTOR, 18 OHM, 3 W, 41%	REG CURRENT LIMITER
R2	182773	1	POTENTIOMETER, 3 OHM, 2.5W	REG CURRENT ADJ.
R3	321155	1	RESISTOR, 2K, 2W, 5%	Q1 CURRENT LIMITER
R4	118720	1	RESISTOR, 100K, 1/2W, 5%	Q1 OPEN LINE BIAS
R5	118720	1	RESISTOR, 100K, 1/2W, 5%	INPUT RESISTOR
R6	129854	1	RESISTOR, 10K, 1/2W, 5%	Q1 BIAS
R7	321160	1	POTENTIOMETER, 5M	Q1 BIAS
R8	118146	1	RESISTOR, 4.7K, 1/2W, 5%	Q1 EMITTER RES
R9	129850	1	RESISTOR, 680 OHM, 1/2W, 5%	VOLTAGE DIVIDER
R10	321258	1	RESISTOR, 20K, 1/2W, 5%	Q1 LOAD RES
R11	137604	1	RESISTOR, 620 OHM, 1/2W, 5%	VOLTAGE DIVIDER
R12	321292	1	RESISTOR, 1.3K, 2W, 5%	CR7 CURRENT LIMITE
R13	139143	1	RESISTOR, 43K, 1/2W, 5%	Q2 LOAD RES.
R14	321259	1	RESISTOR, 15 OHM, 1/2W, 5%	Q3 EMITTER RES.
R15	165178	1	RESISTOR, 3.6K, 1/2W, 5%	Q3 LOAD RES
R16	137442	1	RESISTOR, 15K, 1/2W, 5%	C4 BLEEDER RES
R17	321151	1	RESISTOR, 110 OHM, 3W, 1%	COIL CURRENT LIMITER
R18	321258	1	RESISTOR, 20K, 1/2W, 5%	CR8 BIAS RES.
C1	321158	1	CAPACITOR, .1 MFD.	R.F. BY-PASS CAP
C2	321157	1	CAPACITOR, 500 PFD.	R.F. BY-PASS CAP
C3	171829	1	CAPACITOR, .15 MFD.	Q3 FEEDBACK CAP
C4	321264	1	CAPACITOR, 50V, 2.7 MFD.	TRANSIENT SUPP.
C5	178860	1	CAPACITOR, 100V, .022 MFD.	R.F. BY-PASS CAP
C6	171587	1	CAPACITOR, 200V, .25 MFD.	Q4 FEEDBACK CAP.
C7	171583	1	CAPACITOR, .003 MFD	R.F. BY-PASS CAP.
L1	321159	1	CHOKE, 390 μH	R.F. CHOKE
CR1	321161	1	DIODE, 1N748A, 3.9V ± 5%	REG. VOLT. REF.
CR3	321154	1	DIODE, 1N457A	Q1 BASE PROT.
CR4	178844	1	VARIATOR, 100-A	TEMP. COMP.
CR5	178844	1	VARIATOR, 100-A	TEMP. COMP.
CR6	178844	1	VARIATOR, 100-A	TEMP. COMP.
CR7	181667	1	DIODE, 1N704, 4.7V ± 5%	TEMP. COMP. REF.
CR8	177611	1	DIODE, 1N402	Q4 EMITTER DIODE
CR9	321154	1	DIODE, 1N457A	TRANSIENT SUPP.
CR10	321154	1	DIODE, 1N457A	SHORT PROT.
Q1	321166	1	TRANSISTOR, 2N1893	D.C. AMP.
Q2	324144	1	TRANSISTOR, 2N4121	D.C. AMP.
Q3	321165	1	TRANSISTOR,	D.C. AMP.
Q4	321261	1	TRANSISTOR, 2N4036	D.C. AMP.
	324147	1	PAD, TRANSISTOR	Q2
	144495	3	PAD, TRANSISTOR	Q1, Q3, Q4
	321299	1	CIRCUIT BOARD, ETCHED	
	321171	2	LEAD (BK)	
T1-T4	137471	4	LUG, TERMINAL	

NOTE 4

NO	NOTES
1.	ALL RESISTORS 1/2 WATT, ALL RESISTANCE VALUES IN OHMS AND ALL CAPACITANCE VALUES IN MFD. UNLESS OTHERWISE SPECIFIED.
2.	Q5 (181675) AND CR2 (321149) ARE MOUNTED TO 321148 HEAT SINK. SEE CMD ASSEMBLY 321991.
3.	R2 IS ADJUSTED FOR 15 MA IN CR2 WITH INPUT MARKING(S) AND OUTPUT CONNECTED TO A 150 OHM RESISTOR (5W)
4.	R7 IS ADJUSTED FOR SYMMETRICAL SWITCHING ABOUT ZERO.
5.	PINS A, B 140 MA TO COILS PINS R, S -6V DC PINS C, D +47 TO 53V DC POWER PINS E, F, H, J CONTROL CONTACT PROVISION PINS N, F RS 1888 SIGNAL INPUT PINS K, L, M COMMON (ALL INPUTS AND OUTPUTS REFERRED TO COMMON)
6.	S-NUMBER 61,2635



NOTES

- THIS VIEW MAY BE USED AS 1 TO 1 MASTER FOR ART WORK.
- ALL CHARACTERS TO BE .125 HIGH AND PRINTED WITH WHITE ENAMEL.
- ALL PRINTED CHARACTERS TO BE LOCATED ±.031 FROM POSITION SHOWN IN VIEW.
- CR 10 ADDED FOR SHORT CIRCUIT PROTECTION.

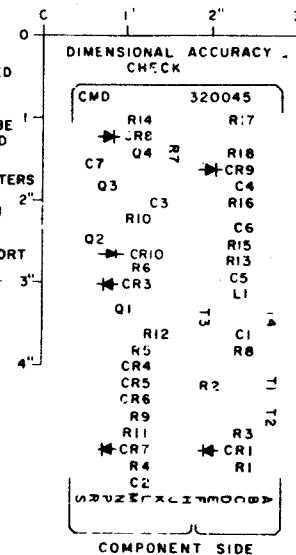


Figure 5-53 Clutch Magnet Driver 321991 (Sheet 2 of 2)