



NO	NOTES																				
1	<p>WIRING LEGEND:</p> <p>DISTANT TERMINATING AREA DISTANT TERMINAL DESIGNATION WIRE COLOR CODE</p>																				
2.	<p>COLOR CODE</p> <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>W—WHITE</td> <td>W—S—WHITE—SLATE</td> </tr> <tr> <td>S—SLATE</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	W—WHITE	W—S—WHITE—SLATE	S—SLATE	
BK—BLACK	W—BK—WHITE—BLACK																				
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G—GREEN	W—G—WHITE—GREEN																				
BL—BLUE	W—BL—WHITE—BLUE																				
P—PURPLE	W—P—WHITE—PURPLE																				
W—WHITE	W—S—WHITE—SLATE																				
S—SLATE																					
3.	UNIT WIRED FOR 115 VOLTS AC OR DC POWER INPUT.																				
4.	CONNECTOR VIEWED FROM SOLDER TERMINAL ENDS.																				
5.	ALL CONTACTS SHOWN IN UNOPERATED POSITION.																				
6.	SPARE TERMINAL OF F-12 RESERVED FOR POLAR OPERATION OF TRANSMITTER DISTRIBUTOR SIGNAL GENERATOR. TIE W-Y LEAD BACK ALONG CABLE ASSEMBLY FROM SIGNAL GENERATOR.																				
7.	DISCONNECT ONE TERMINAL WHEN TESTING SIGNAL GENERATOR.																				
8.	THE NUMBERS ENCASED BY PARENTHESES ARE USED FOR REFERENCE AND ARE NOT NECESSARILY SHOWN ON THE PARTS.																				
9.	TO PLACE THE CLUTCH TRIP MAGNET ASSEMBLY AND THE TWO CONTACT ASSEMBLIES IN SERIES, CONNECT THE TWO 151827 TERMINAL STRAPS TO TERMINALS 2 & 3 AND TERMINALS 4 & 5. CONNECT THE TWO BLACK STRAPS OF THE CABLE ASSEMBLY TO TERMINALS 1 & (17) AND TERMINALS 6 & (18).																				
10.	115 V ±10% AC POWER TO BE USED ON CLUTCH TRIP MAGNET ASSEMBLY CIRCUIT. (256 M COIL ASSEMBLIES) FOR DC OPERATION ADD SUFFICIENT EXTERNAL RESISTANCE TO LIMIT CURRENT TO 100 M.A.																				

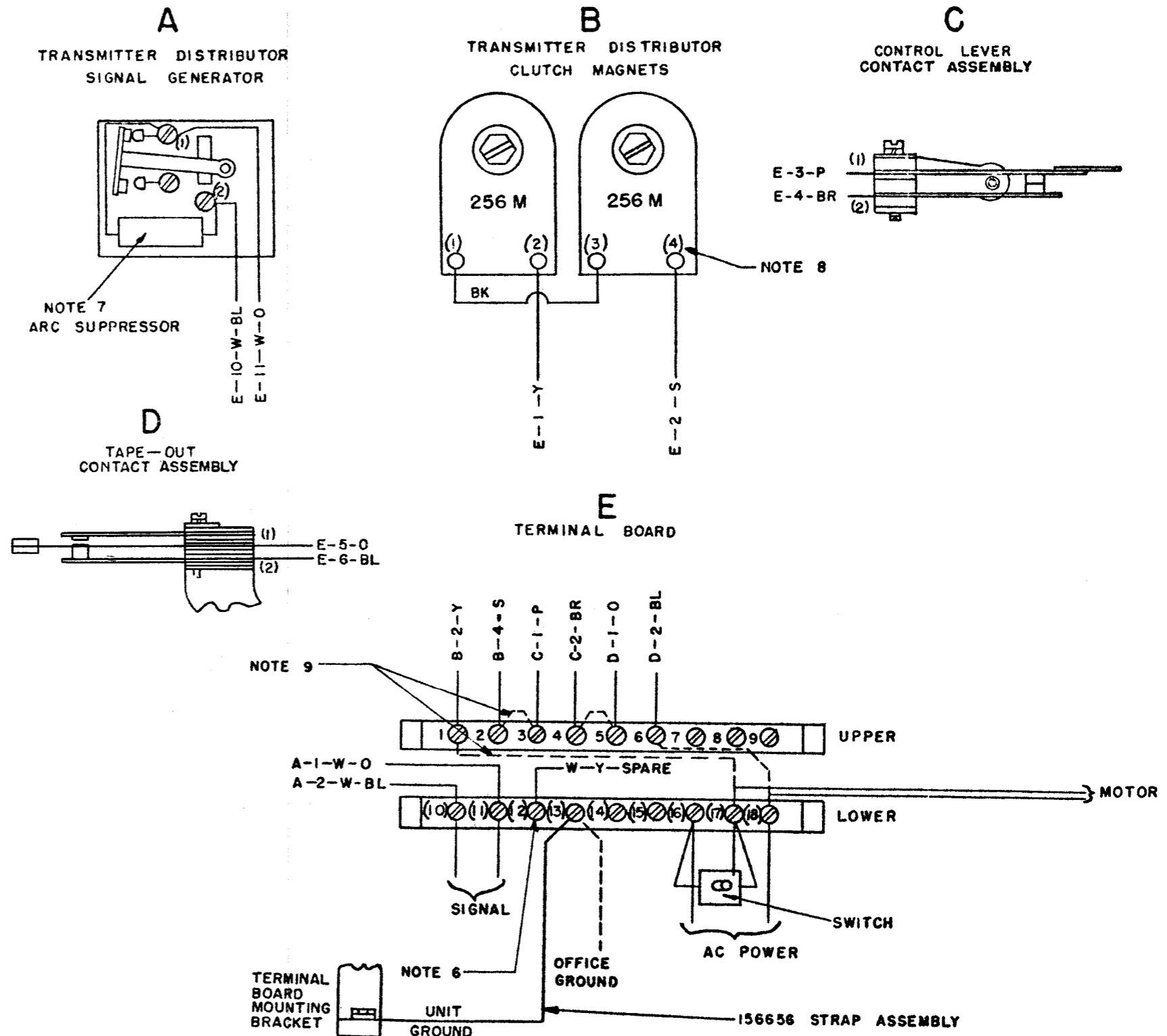


Figure 5-1. Transmitter Distributor Unit LXD1 Wiring Diagram

NO	NOTES										
1	<b>WIRING LEGEND:</b> 										
2	<b>COLOR CODE:</b> <table border="0"> <tr> <td>BK-BLACK</td> <td>BL-BLUE</td> </tr> <tr> <td>BR-BROWN</td> <td>R-RED</td> </tr> <tr> <td>W-WHITE</td> <td>P-PURPLE</td> </tr> <tr> <td>O-ORANGE</td> <td>Y-YELLOW</td> </tr> <tr> <td>G-GREEN</td> <td>S-SLATE</td> </tr> </table>	BK-BLACK	BL-BLUE	BR-BROWN	R-RED	W-WHITE	P-PURPLE	O-ORANGE	Y-YELLOW	G-GREEN	S-SLATE
BK-BLACK	BL-BLUE										
BR-BROWN	R-RED										
W-WHITE	P-PURPLE										
O-ORANGE	Y-YELLOW										
G-GREEN	S-SLATE										
3	CONNECTORS VIEWED FROM SOLDER TERMINAL ENDS.										
4	ALL CONTACTS SHOWN IN UNOPERATED POSITION.										
5	DISCONNECT ONE ARC SUPPRESSOR LEAD WHEN STROBING SIGNAL GENERATOR.										
6	THE NUMBERS ENCLOSED BY PARENTHESES ARE USED FOR REFERENCE AND ARE NOT NECESSARILY SHOWN ON THE PARTS.										
7	115V AC $\pm$ 10% POWER TO BE USED ON CLUTCH TRIP MAGNET ASSEMBLY CIRCUIT (256 M COIL ASSEMBLIES). IF DC IS USED, CURRENT MUST BE LIMITED TO 100 MA BY AN EXTERNAL RESISTANCE (COIL RESISTANCE=74 EACH). FOR 120V DC $\pm$ 10% POWER, AN EXTERNAL RESISTANCE OF 1000 IS REQUIRED. FOR 90V DC $\pm$ 10% POWER, AN EXTERNAL RESISTANCE OF 360 IS REQUIRED.										
8	TERMINAL NO. 21 ON CONNECTOR H IS RESERVED FOR POLAR SIGNAL.										
9	STRAP WITH #22 GAUGE WIRE AS INDICATED.										
10	FOR LXD9 SEE WIRING DIAGRAMS 3292VD & 3299VD FOR WIRING OF HORIZONTAL TAB WHEN USED WITH ASR SET.										
11	WHEN THE LXD9 IS IN THE STOP (IDLE) CONDITION, THE SPACING(S) SIDE OF THE MULTIPLE WIRE OUTPUT CONTACTS ARE CLOSED.										
12	ARC SUPPRESSOR IS OMITTED ON THE LXD09.										
13	W-Y WIRE FROM D-3 TO H-21 FURNISHED WITH LXD13.										
14	OMIT ARC SUPPRESSOR FROM LXD10.										
15	W-P WIRE FROM C-3 TO H-14 FURNISHED WITH LXD10.										
16	TOGGLE STRAP - LXD20 ONLY.										
17	THE TAPE WITHHOLD MAGNET IS TO BE USED WITH 115V DC $\pm$ 10% WITH AN 1100 OHM SERIES RESISTANCE OR WITH 48V DC $\pm$ 10% WITH NO EXTERNAL RESISTANCE. COIL RESISTANCE= 872 OHMS $\pm$ 10%. ON ASR INSTALLATION ROUTE CABLE UNDER BASE ALONG LEFT SIDE OF CABINET TO "C" TERMINAL STRIP AND SECURE TO CABINET.										
18	LXD30 IS EQUIPPED WITH 256M MAGNET COIL ASSEMBLIES (210 OHMS EACH) STRAPPED FOR 115V AC NON-PULSED OPERATION. FOR 90MA, 115V DC PULSED OPERATION, ADD EXTERNAL RESISTANCE AND CHANGE CONNECTIONS AS FOLLOWS:										
	<table border="1"> <thead> <tr> <th>CONNECTIONS REMOVED</th> <th>CONNECTIONS ADDED</th> </tr> </thead> <tbody> <tr> <td>A8-A3</td> <td>A1-A3</td> </tr> <tr> <td>A1-A8</td> <td></td> </tr> </tbody> </table>	CONNECTIONS REMOVED	CONNECTIONS ADDED	A8-A3	A1-A3	A1-A8					
CONNECTIONS REMOVED	CONNECTIONS ADDED										
A8-A3	A1-A3										
A1-A8											
19	AREA E-UNNUMBERED TERMINALS ON MULTIPLE WIRE OUTPUT CONTACT ASSEMBLY ARE NOT PRESENT ON OLDER ASSEMBLIES AND ARE NOT USED.										

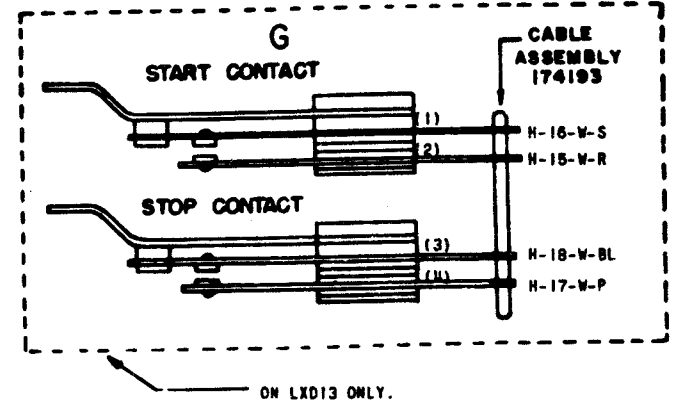
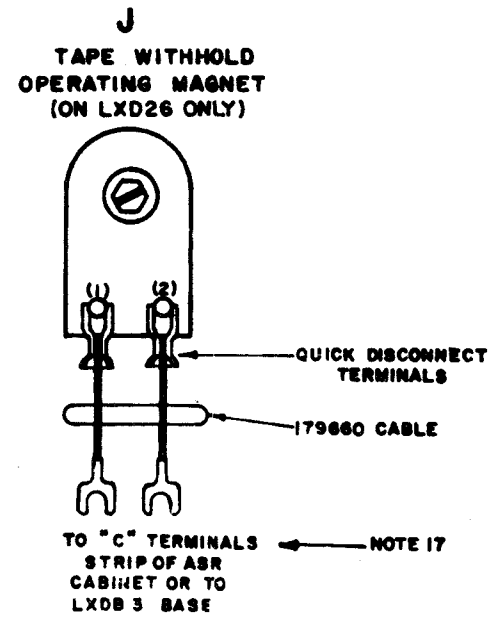
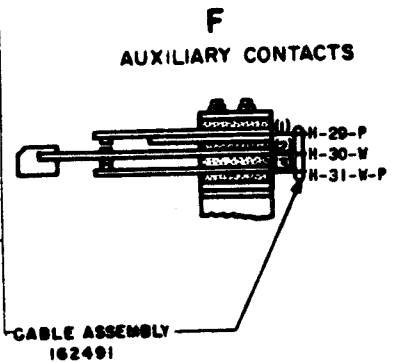
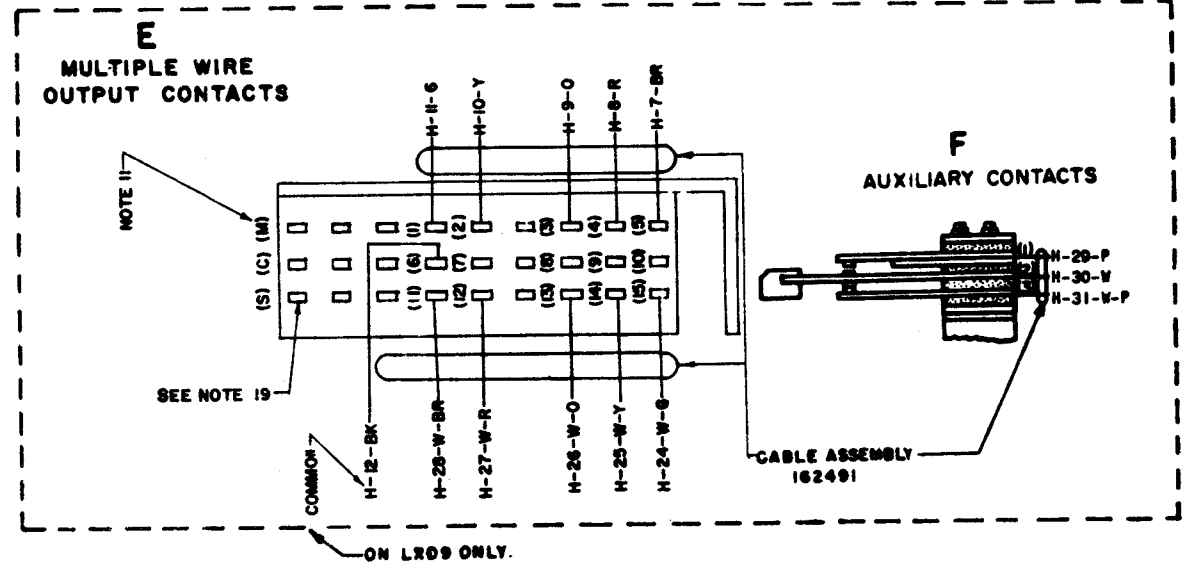
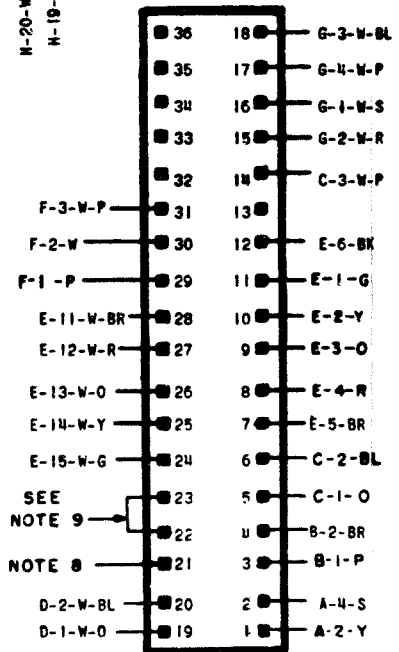
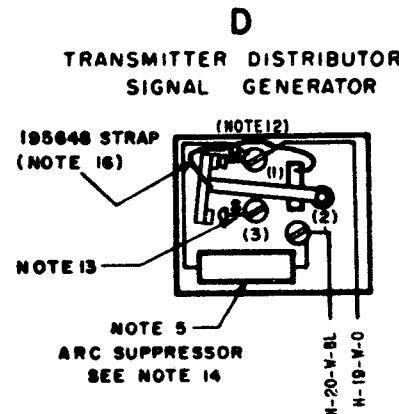
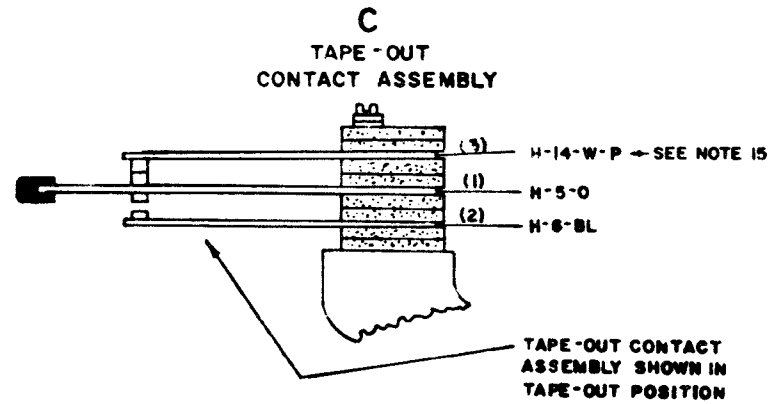
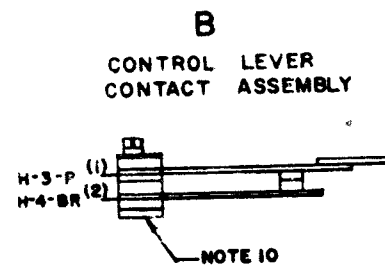
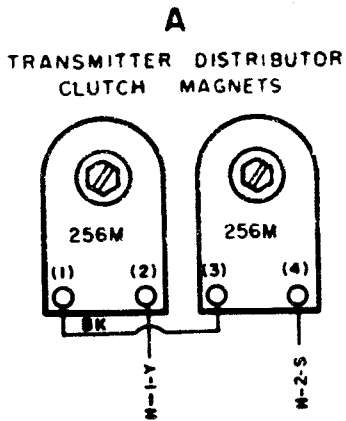
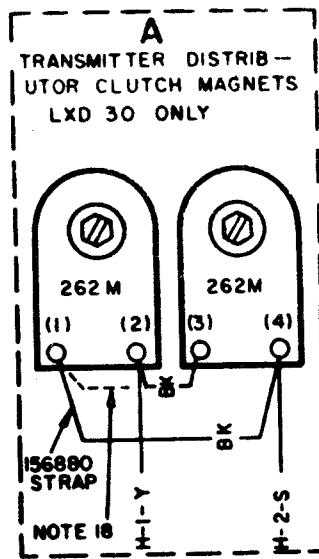
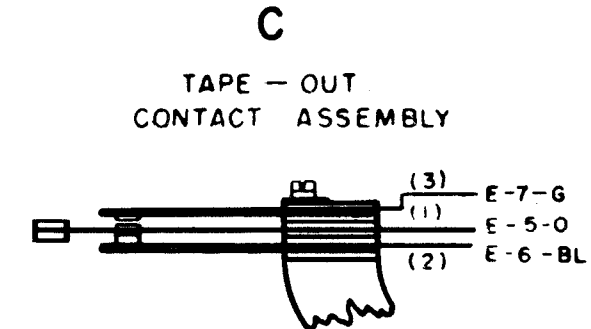
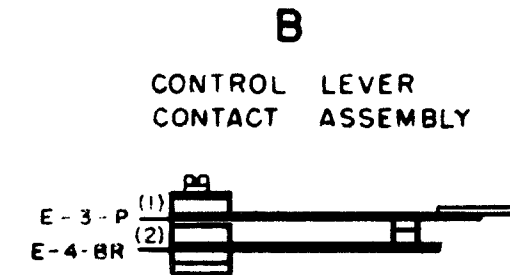
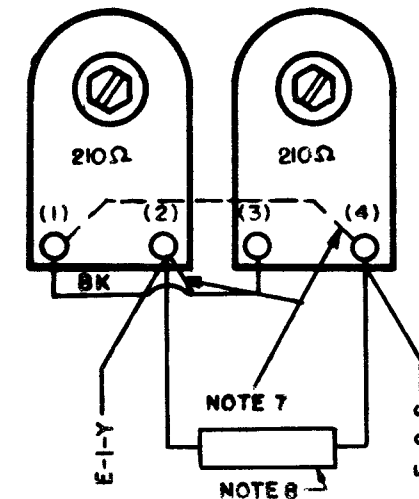


Figure 5-2. Transmitter Distributor Unit LXD4, 9, 13, 15, 18, 19, 20, 26, 601, 602, 800, 802, 30, 41 Wiring Diagram

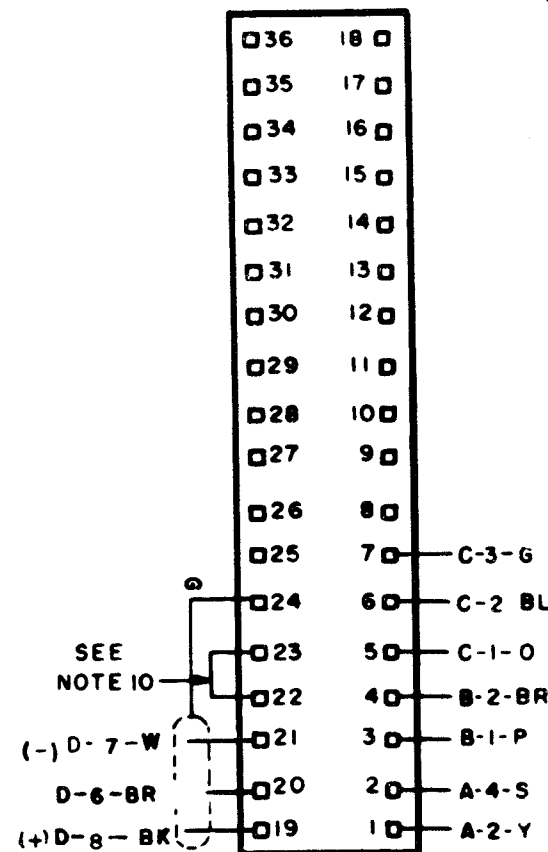
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BK - BLACK	W-BK - WHITE-BLACK																				
BR - BROWN	W-BR - WHITE-BROWN																				
R - RED	W-R - WHITE-RED																				
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G - GREEN	W-G - WHITE-GREEN																				
BL - 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.	<b>ASSOCIATED CABLES:</b> 173440 CABLE ASSEMBLY (LXD 11) 307288 CABLE ASSEMBLY (LXD 29,35)																				
6.	THE NUMBERS ENCLOSED BY PARENTHESES ARE USED FOR REFERENCE AND ARE NOT MARKED ON THE PARTS.																				
7.	UNIT EQUIPPED WITH 262 COIL ASSEMBLY (RESISTANCE 210Ω EACH). THE OPERATING CURRENT MUST BE 50 MA. 120V. DC FOR EXTERNAL PULSING.  FOR 110V AC. NON-PULSING OPERATION, RELOCATE STRAP ON TERMINAL (1) TO TERMINAL (2). ADD STRAP BETWEEN TERMINALS (1) AND (4) FOR PARALLEL OPERATION OF MAGNETS.																				

8.	178535 SPARK SUPPRESSOR ASSEMBLY (153631 NETWORK) USED ON LXD 29 ONLY.
9.	TERMINAL NO. 21 ON CONNECTOR E IS RESERVED FOR POLAR SIGNAL.
10.	STRAP WITH 22 GAUGE WIRE AS INDICATED.
11.	FOR PROPER R.F. FILTERING POLARITY OF FILTERS MUST BE MAINTAINED WHEN 174422 FILTER IS USED. UNIT AS FURNISHED IS WIRED FOR "MARKING" CONTACT POSITIVE (+) "SPACING" CONTACT NEGATIVE (-). TO REVERSE POLARITY OF CONTACTS SO THAT THE "MARKING" CONTACT IS NEGATIVE(-) AND "SPACING" POSITIVE (+) MAKE THE FOLLOWING CONNECTIONS IN CONTACT BOX ASSEMBLY. 1. MOVE BLACK LEAD OF BOTTOM FILTER FROM "MARKING" CONTACT TO "SPACING" CONTACT. 2. MOVE GREEN LEAD OF TOP FILTER FROM "SPACING" CONTACT TO "MARKING" CONTACT.  POLARITY MAY BE DISREGARDED WHEN UNITS ARE FURNISHED WITH 174421 FILTER. COLOR CODING OF FILTER LEADS DOES NOT APPLY TO 174421 FILTER.

**A**  
TRANSMITTER DISTRIBUTOR CLUTCH MAGNETS



**E**  
CONNECTOR



**D**  
TRANSMITTER DISTRIBUTOR SIGNAL GENERATOR

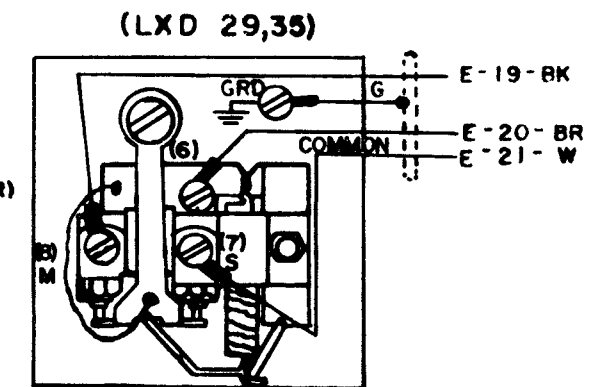
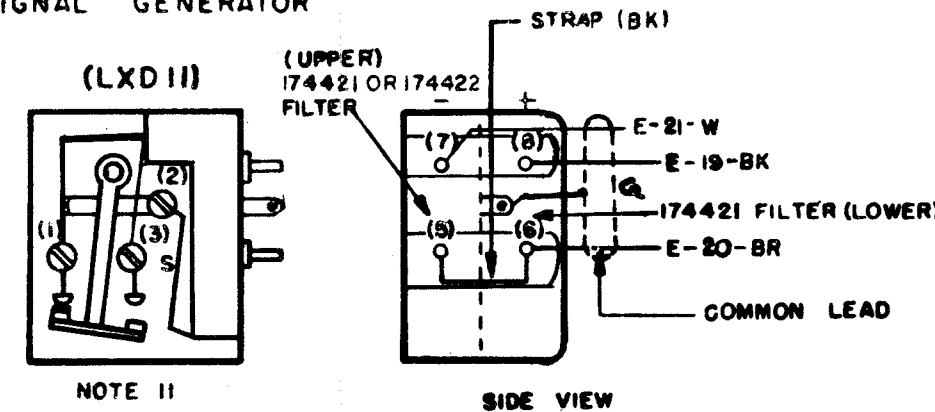
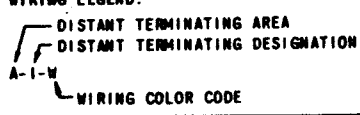


Figure 5-3. Transmitter Distributor Unit LXD11, 29, 35 Wiring Diagram

NO.	NOTES
1.	<b>WIRING LEGEND:</b> 
2.	<b>COLOR CODE:</b> BK - BLACK            R - RED BL - BLUE            P - PURPLE BR - BROWN          Y - YELLOW O - ORANGE          G - GREEN W - WHITE            S - SLATE
3.	CONNECTORS VIEWED FROM SOLDER TERMINAL ENDS.
4.	ALL CONTACTS SHOWN IN UNOPERATED POSITION.
5.	ASSOCIATED CABLES: 173440 CABLE ASSEMBLY
6.	THE NUMBERS ENCLOSED BY PARENTHESES ARE USED FOR REFERENCE AND ARE NOT NECESSARILY SHOWN ON THE PARTS.
7.	UNIT EQUIPPED WITH 262 COIL ASSEMBLY (RESISTANCE 210Ω EACH) THE OPERATING CURRENT MUST BE 50 MA 120 V DC FOR EXTERNAL PULSING. FOR 110 AC NON-PULSING OPERATION, RELOCATE STRAP ON TERMINAL (1) TO TERMINAL (2). ADD STRAP BETWEEN TERMINALS (1) AND (4) FOR PARALLEL OPERATION OF MAGNETS.
8.	TERMINAL NO. 21 ON CONNECTOR E IS RESERVED FOR POLAR SIGNAL.
9.	STRAP WITH NO. 22 GAUGE WIRE AS INDICATED
10.	FOR PROPER R.F. FILTERING USING EARLY STYLE 174421 AND 174422 FILTERS POLARITY OF FILTERS MUST BE MAINTAINED. WIRING SHOWN IS FOR MARKING CONTACT NEGATIVE. FOR MARKING CONTACT POSITIVE MAKE THE FOLLOWING CHANGES: A. MOVE GREEN LEAD OF TOP FILTER FROM MARKING CONTACT TO SPACING CONTACT. B. MOVE BLACK LEAD OF BOTTOM FILTER FROM SPACING CONTACT TO MARKING CONTACT. LATE STYLE 174421 FILTER IS NOT POLARIZED AND IS USED IN BOTH UPPER AND LOWER POSITIONS. BOTH LEADS OF FILTER ARE BLACK.

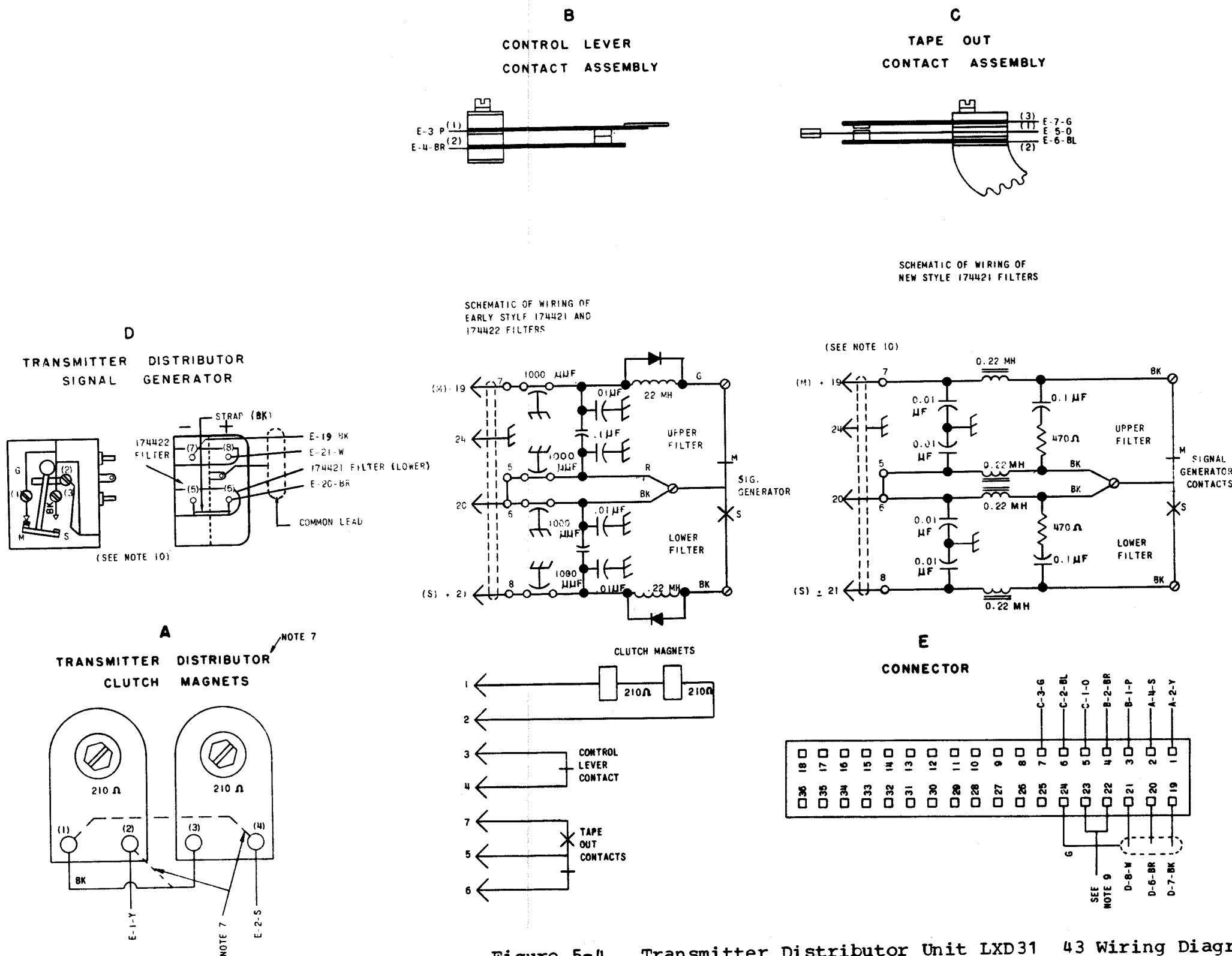
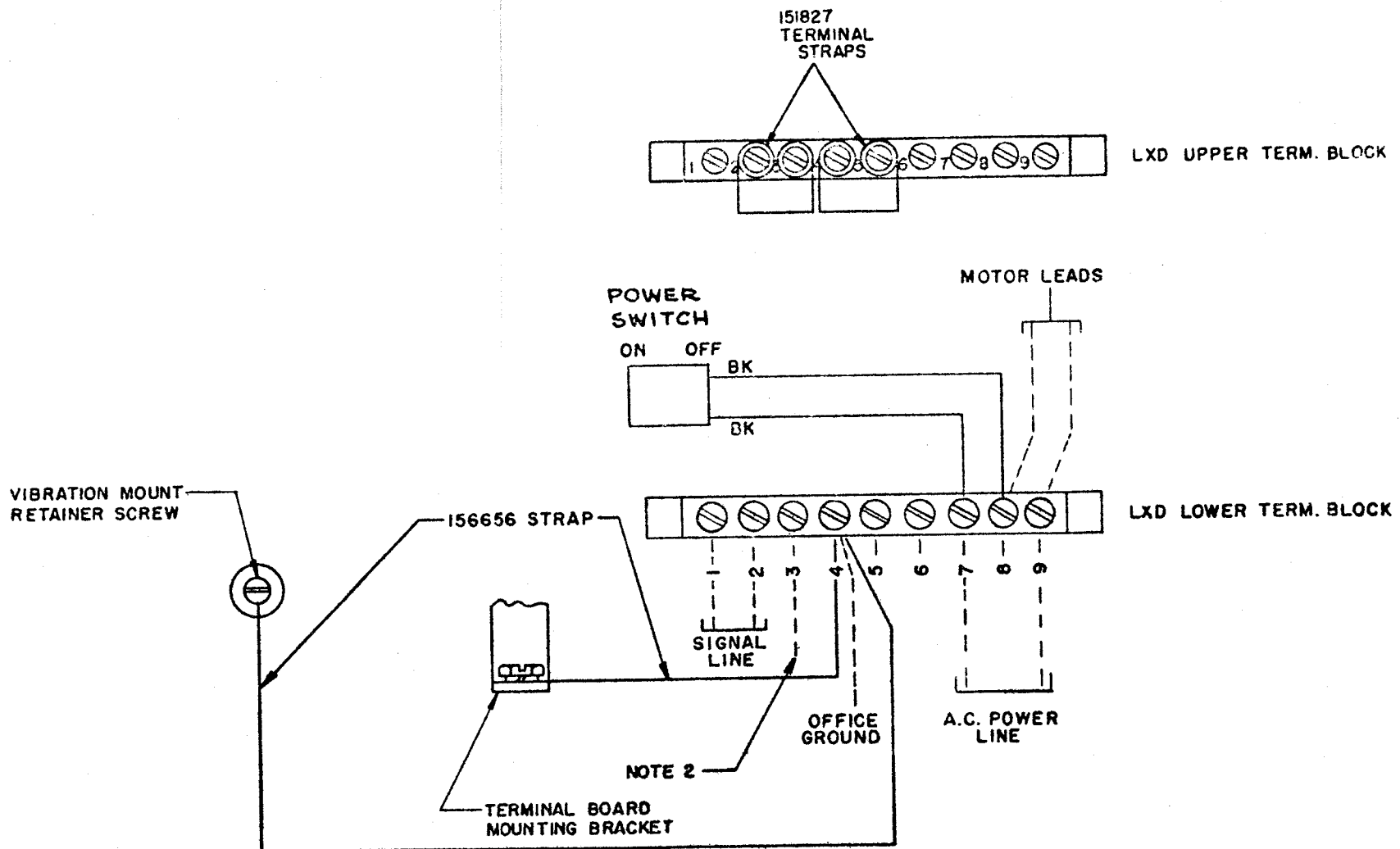


Figure 5-4. Transmitter Distributor Unit LXD31 43 Wiring Diagram



NOTES	
1	WIRE COLOR CODE: BK - BLACK
2	TERMINAL NO. 3 AVAILABLE FOR POLAR OPERATION.
3	NUMBERS 1 TO 9 SHOWN ON THE LOWER TERMINAL BLOCK CORRE- SPOND TO NUMBERS (10) TO (18) RESPECTIVELY ON WIRING DIAGRAM 3342 WD.
4	DOTTED LINES NOT PART OF THE BASE UNIT.

Figure 5-5. Transmitter Distributor Base LXDB1 Wiring Diagram

NO.	NOTES
1.	<b>WIRING LEGEND:</b> 
2.	<b>COLOR CODE:</b> BK-BLACK      BR-BROWN BL-BLUE      R-RED G-GREEN      P-PURPLE Y-YELLOW     O-ORANGE S-SLATE      W-WHITE
3.	UNIT WIRED FOR 115 VOLTS AC OR DC POWER INPUT.
4.	CONNECTOR VIEWED FROM SOLDER TERMINAL ENDS.
5.	TERMINAL E-3 RESERVED FOR POLAR OPERATION. W-Y LEAD CONNECTED FROM E-3 TO H-21.
6.	THE NUMBERS ENCLOSED BY PARENTHESES ARE NOT NECESSARILY SHOWN ON THE PARTS.
7.	115V AC ± 10% POWER TO BE USED ON CLUTCH TRIP MAGNET ASSEMBLY CIRCUIT (250 M COIL ASSEMBLIES). IF DC IS USED CURRENT MUST BE LIMITED TO 100 MA BY AN EXTERNAL RESISTANCE (COIL RESISTANCE = 7HΩ EACH). FOR 120V DC ± 10% POWER, AN EXTERNAL RESISTANCE OF 1000Ω IS REQUIRED FOR 50V DC ± 10% POWER, AN EXTERNAL RESISTANCE OF 350Ω IS REQUIRED.
8.	WITH THE TWO 151827 TERMINAL STRAPS CONNECTED AS SHOWN (TERMINALS 2 & 3 AND TERMINALS 4 & 5) THE CLUTCH MAGNET ASSEMBLY, THE TAPE-OUT CONTACT ASSEMBLY, AND THE CONTROL LEVER CONTACT ASSEMBLY (ALL ON THE ASSOCIATED TRANSMITTER DISTRIBUTOR) WILL BE WIRED IN SERIES.
9.	MOTOR IS NOT PART OF BASE.

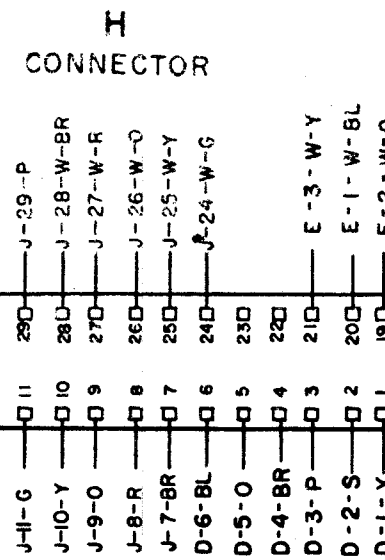
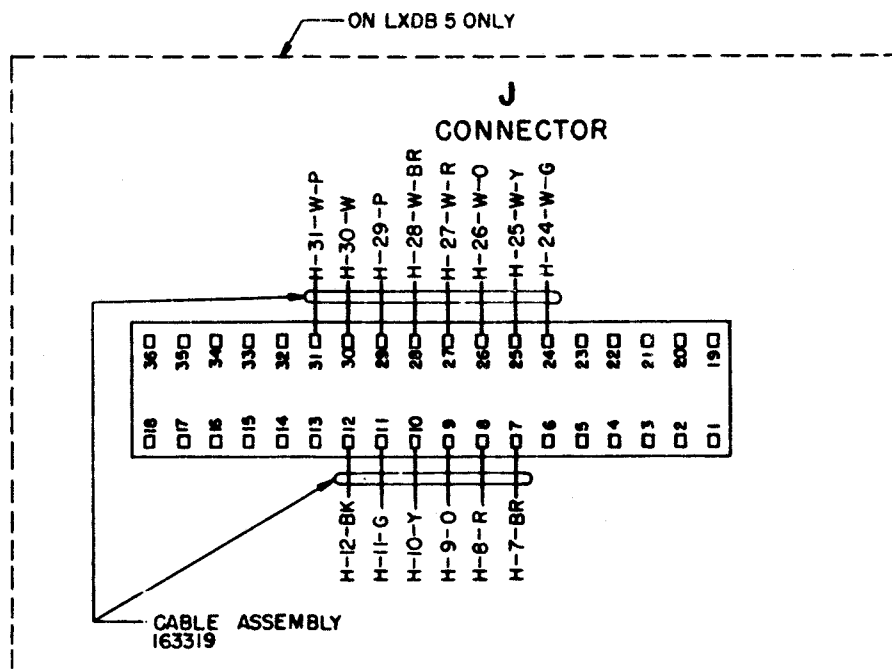
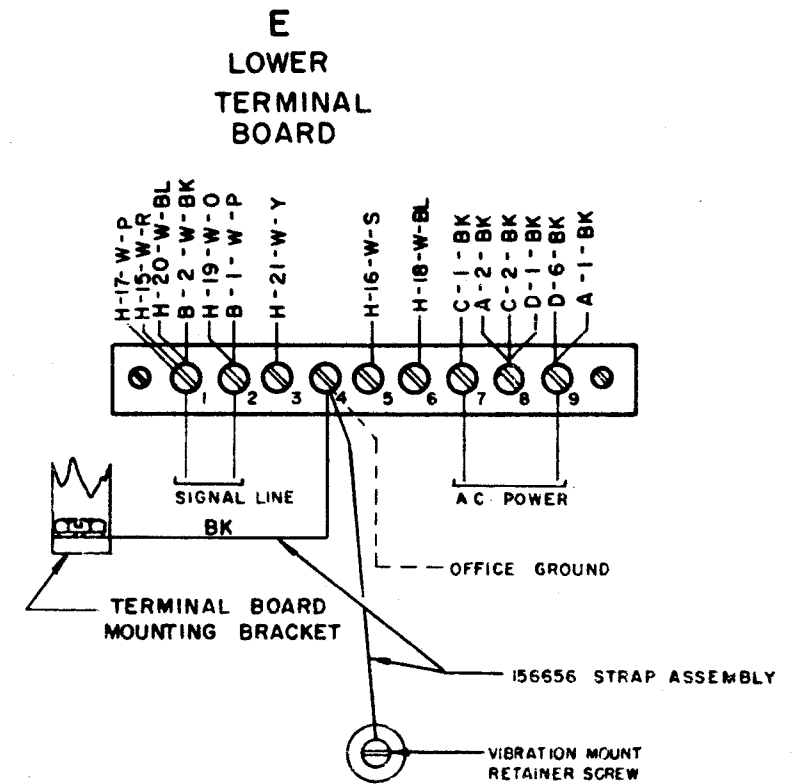
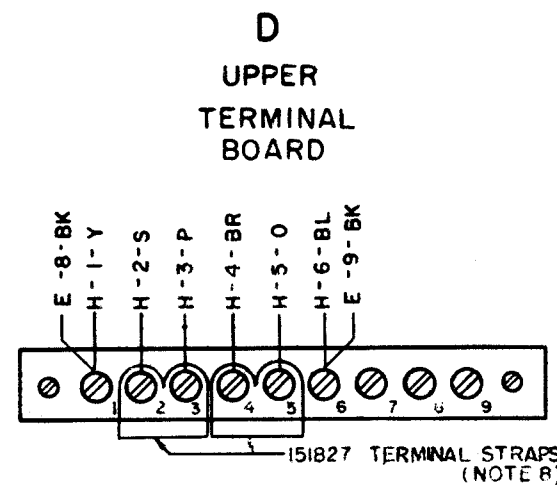
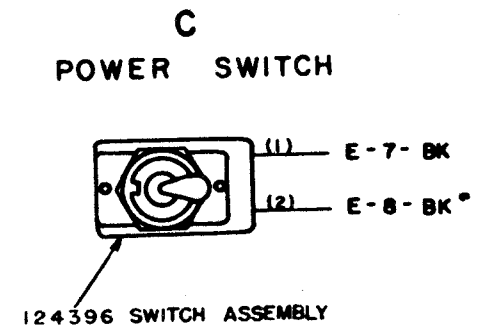
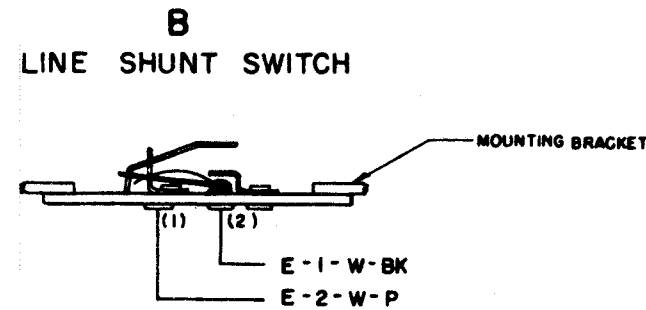
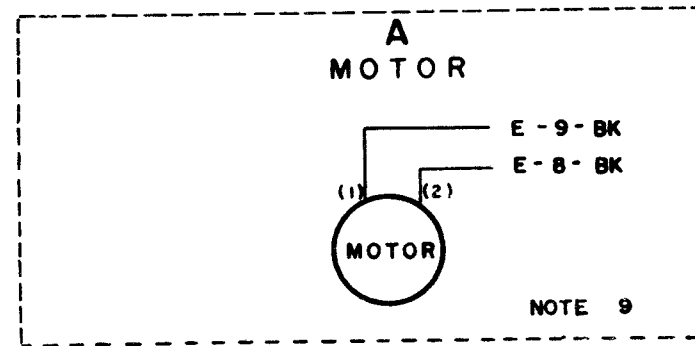


Figure 5-6. Transmitter Distributor Base LXDB3, 4, 5, 10, 13, 15 Wiring Diagram

NOTES:																											
1.	<b>WIRING LEGEND:</b> 																										
	<b>COLOR CODE:</b> <table border="0"> <tr> <td>BK BLACK</td> <td>W-BK WHITE</td> <td>BLACK</td> </tr> <tr> <td>BR BROWN</td> <td>W-BR "</td> <td>BROWN</td> </tr> <tr> <td>R RED</td> <td>W-R "</td> <td>RED</td> </tr> <tr> <td>O ORANGE</td> <td>W-O "</td> <td>ORANGE</td> </tr> <tr> <td>Y YELLOW</td> <td>W-Y "</td> <td>YELLOW</td> </tr> <tr> <td>G GREEN</td> <td>W-G "</td> <td>GREEN</td> </tr> <tr> <td>BL BLUE</td> <td>W-BL "</td> <td>BLUE</td> </tr> <tr> <td>P PURPLE</td> <td>W-P "</td> <td>PURPLE</td> </tr> <tr> <td>W WHITE</td> <td>W-S "</td> <td>SLATE</td> </tr> </table>	BK BLACK	W-BK WHITE	BLACK	BR BROWN	W-BR "	BROWN	R RED	W-R "	RED	O ORANGE	W-O "	ORANGE	Y YELLOW	W-Y "	YELLOW	G GREEN	W-G "	GREEN	BL BLUE	W-BL "	BLUE	P PURPLE	W-P "	PURPLE	W WHITE	W-S "
BK BLACK	W-BK WHITE	BLACK																									
BR BROWN	W-BR "	BROWN																									
R RED	W-R "	RED																									
O ORANGE	W-O "	ORANGE																									
Y YELLOW	W-Y "	YELLOW																									
G GREEN	W-G "	GREEN																									
BL BLUE	W-BL "	BLUE																									
P PURPLE	W-P "	PURPLE																									
W WHITE	W-S "	SLATE																									
3.	CONNECTOR VIEWED FROM SOLDER TERMINAL ENDS.																										
4.	THE NUMBERS ENCLOSED IN PARENTHESES ARE USED FOR REFERENCE AND ARE NOT NECESSARILY SHOWN ON THE PARTS.																										
5.	WITH THE TWO 151827 TERMINAL STRAPS CONNECTED AS SHOWN (TERMINAL 2 & 3 AND TERMINALS 4 & 5) THE CLUTCH MAGNET ASSEMBLY, THE TAPE-OUT CONTACT ASSEMBLY, AND THE CONTROL LEVER CONTACT ASSEMBLY (ALL ON THE ASSOCIATED TRANSMITTER DISTRIBUTOR) WILL BE WIRED IN SERIES.																										
6.	ASTERISK (*) ITEMS INDICATE 18 GA. WIRE																										
7.	THE MOTOR IS NOT A PART OF THE LXDB9 UNIT.																										
8.	① BK & ② BK (4 ENDS) OF CABLE 173935 IN THE AREA OF THE UPPER AND LOWER TERMINAL BLOCK ARE NOT USED ON LXDB9. TIE BACK AND INSULATE TERMINAL ENDS.																										

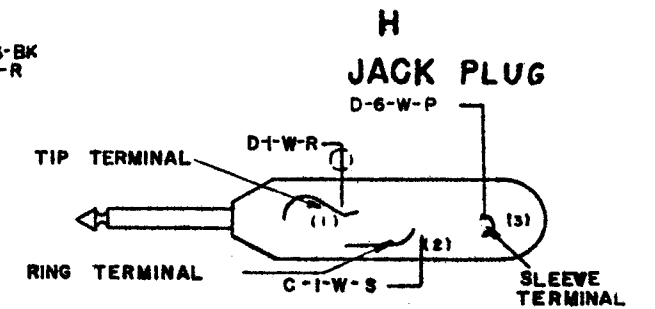
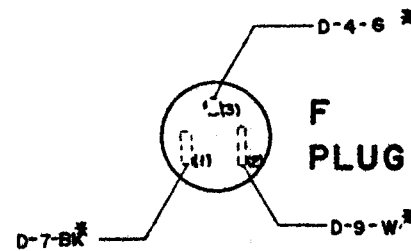
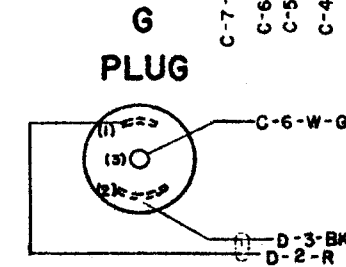
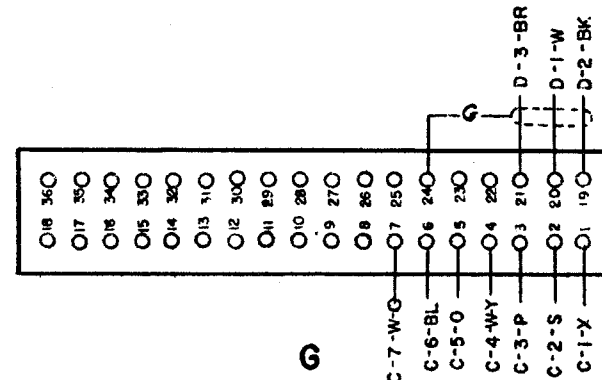
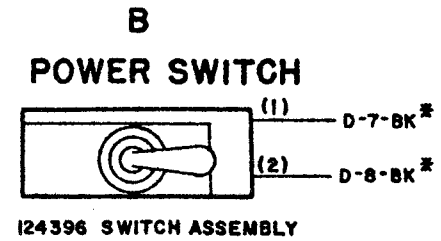
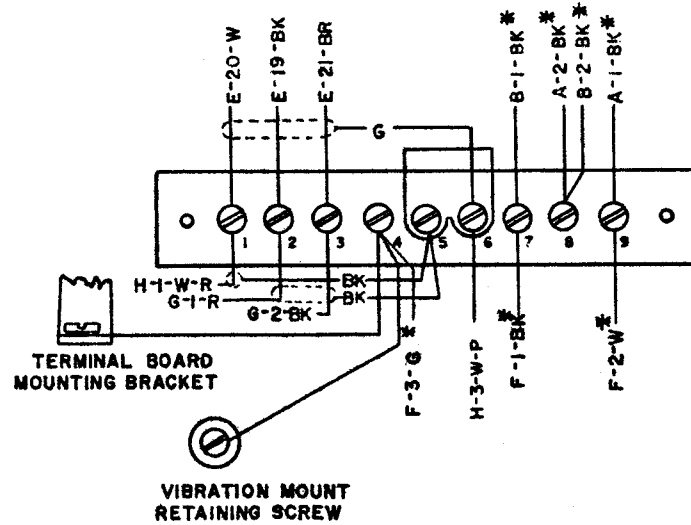
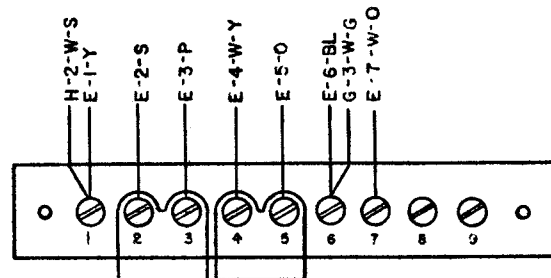
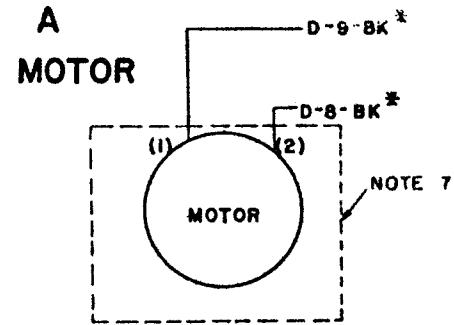



Figure 5-7. Transmitter Distributor Base LXDB9 Wiring Diagram



NO.	NOTES										
1.	<p><b>WIRING LEGEND:</b></p> <p>— DISTANT TERMINATING AREA</p> <p>— DISTANT TERMINATING DESIGNATION</p> <p>A-Y WIRE COLOR CODE</p>										
2.	<p><b>COLOR CODE:</b></p> <table border="0"> <tr> <td>BK-BLACK</td> <td>BR-BROWN</td> </tr> <tr> <td>R-RED</td> <td>O-ORANGE</td> </tr> <tr> <td>Y-YELLOW</td> <td>G-GREEN</td> </tr> <tr> <td>BL-BLUE</td> <td>P-PURPLE</td> </tr> <tr> <td>W-WHITE</td> <td>S-SLATE</td> </tr> </table>	BK-BLACK	BR-BROWN	R-RED	O-ORANGE	Y-YELLOW	G-GREEN	BL-BLUE	P-PURPLE	W-WHITE	S-SLATE
BK-BLACK	BR-BROWN										
R-RED	O-ORANGE										
Y-YELLOW	G-GREEN										
BL-BLUE	P-PURPLE										
W-WHITE	S-SLATE										
3.	UNIT WIRED FOR 115 VOLTS AC POWER INPUT.										
4.	CONNECTOR VIEWED FROM SOLDER TERMINAL ENDS.										
5.	 INDICATES SHIELDING										
6.	THE NUMBERS ENCLOSED BY PARENTHESIS ARE USED FOR REFERENCE AND ARE NOT SHOWN ON THE PARTS.										
7.	WITH THE TWO 151827 TERMINAL STRAPS CONNECTED AS SHOWN (TERMINALS 2 & 3 AND TERMINALS 4 & 5) THE CLUTCH MAGNET ASSEM., THE TAPE-OUT CONTACT ASSEM., AND THE CONTROL LEVER CONT. ASSEM. (ALL ON THE ASSOCIATED TRANSMITTER DIST.) WILL BE WIRED IN SERIES.										
8.	REFERENCE SPECIFICATION FOR TELETYPE CORPORATION EMPLOYEES ONLY 6820 S										

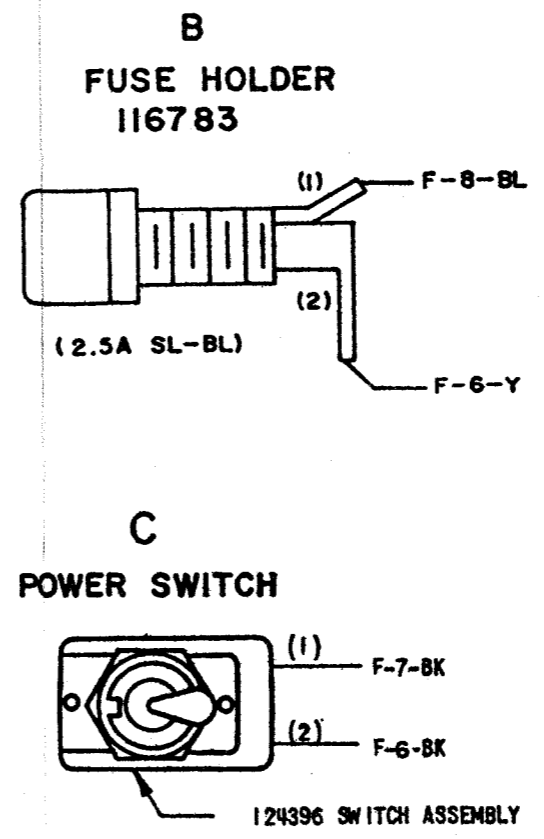
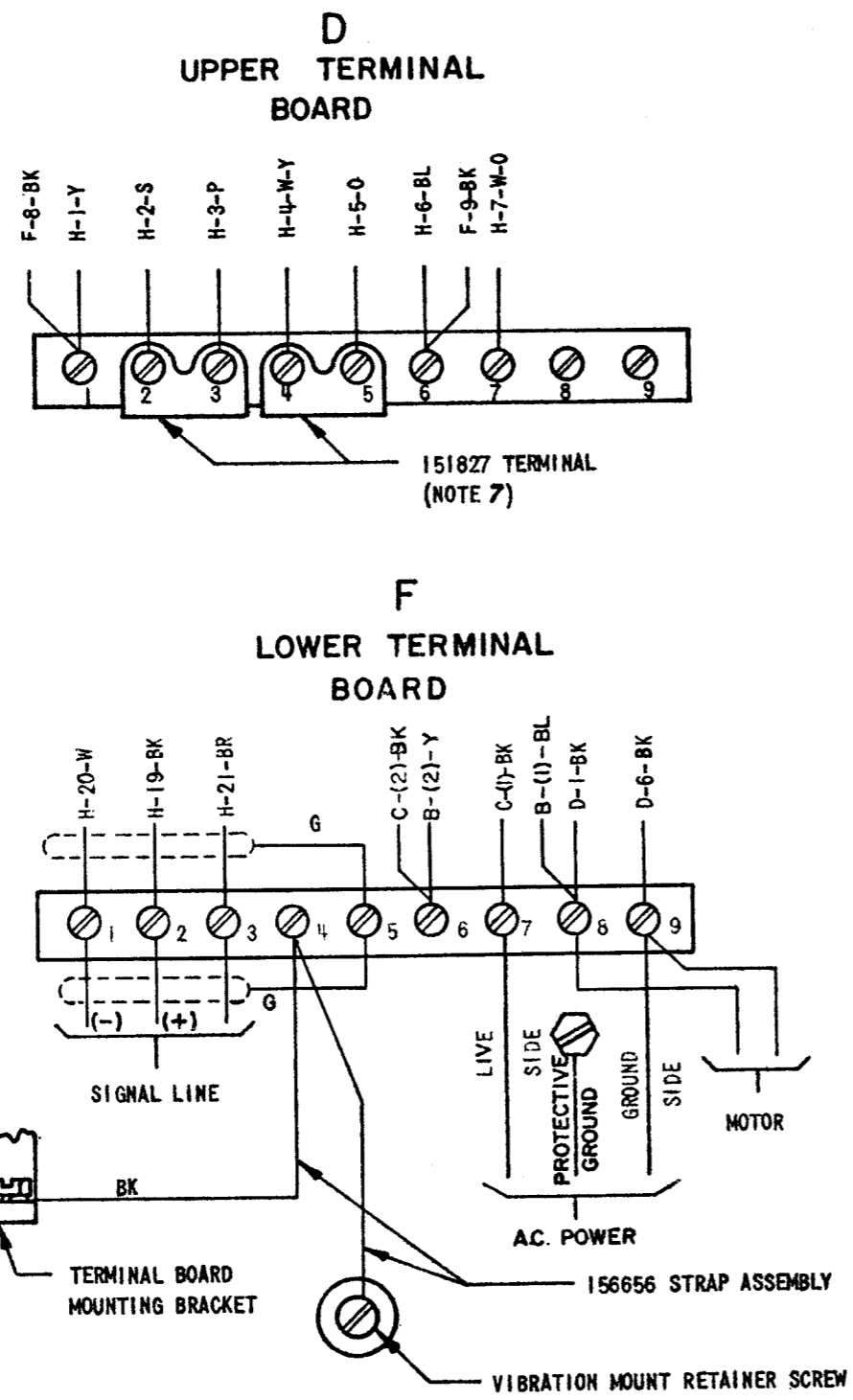


Figure 5-8. Transmitter Distributor Base LXDB19 Wiring Diagram



# 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 BL - BLUE BR - BROWN P - PURPLE W - WHITE R - RED O - ORANGE Y - YELLOW S - SLATE G - GREEN

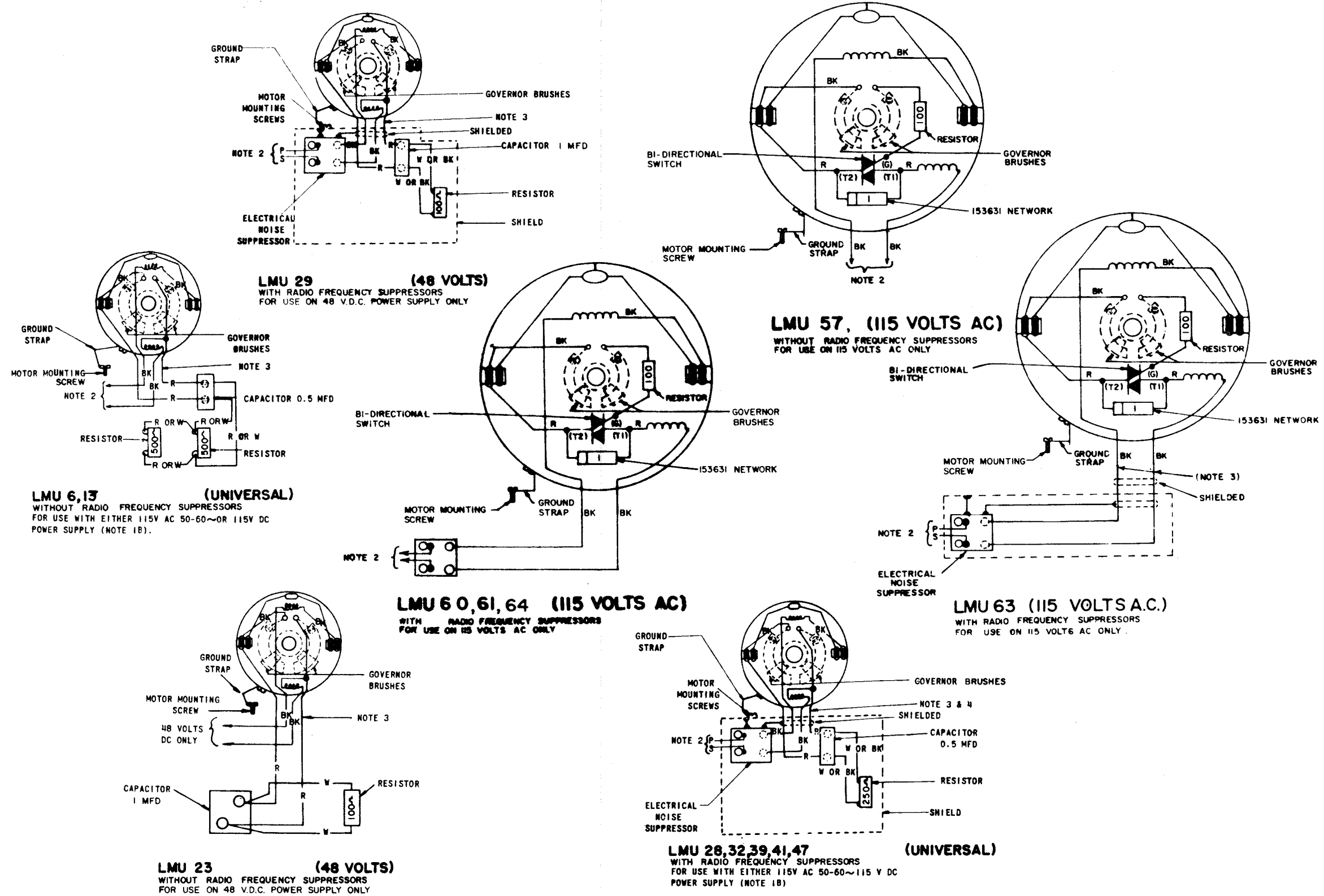


Figure 5-9. Motor Units Wiring Diagram (Sheet 2 of 2)

NOTES:	
1.	<b>WIRING LEGEND:</b> 
2.	<b>COLOR CODE:</b> 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.	<b>ASSOCIATED CABLES:</b> 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.

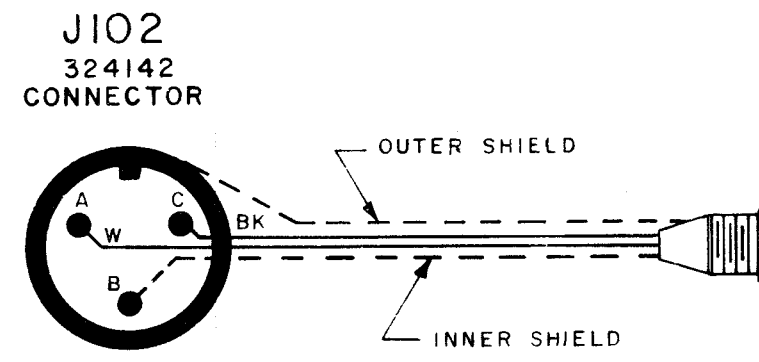
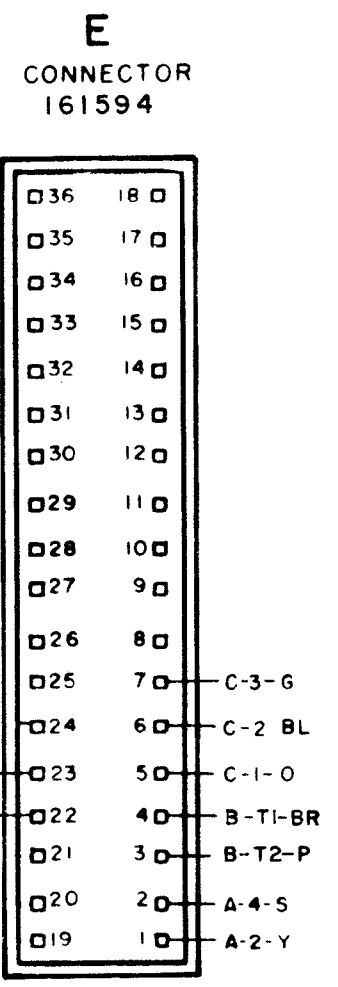
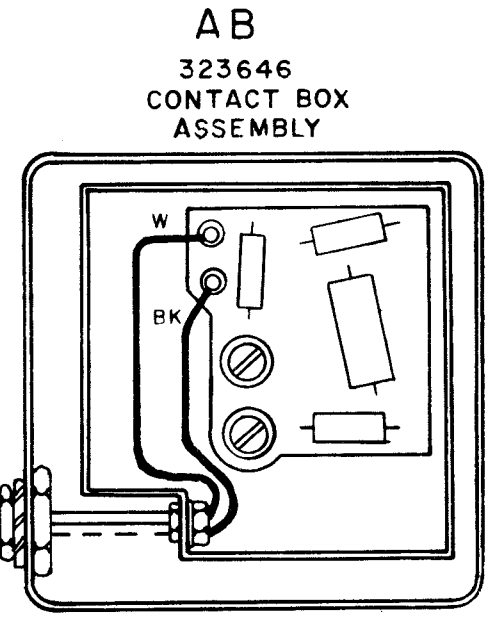
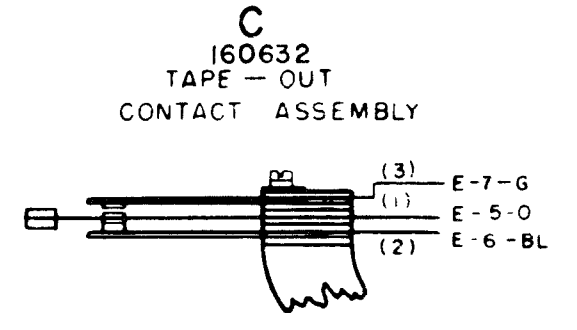
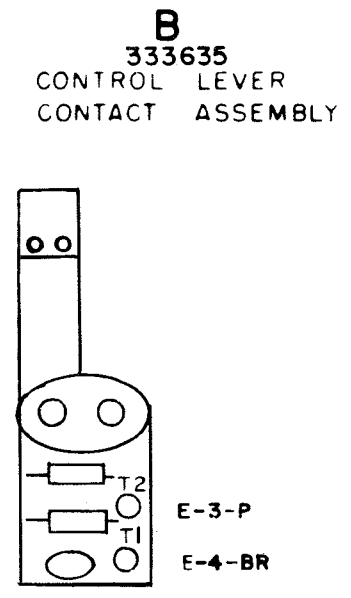
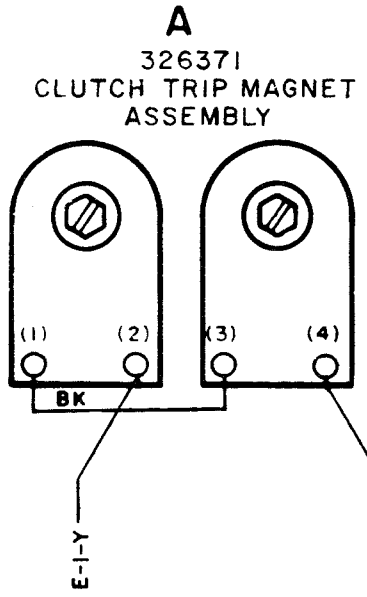
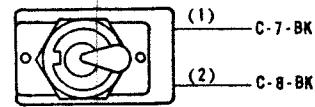


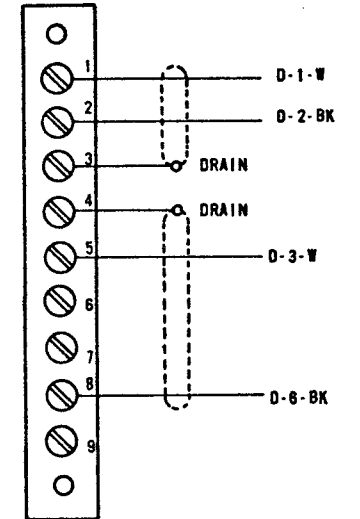
Figure 5-10. Transmitter Distributor Unit LXD37, 38 Wiring Diagram

NO	NOTES										
1.	<p>WIRING LEGEND:</p> <p>DISTANT TERMINATING AREA  DISTANT TERMINATING DESIGNATION  WIRE COLOR CODE</p>										
2.	<p>COLOR CODE:</p> <table border="0"> <tr> <td>BK - BLACK</td> <td>BR - BROWN</td> </tr> <tr> <td>BL - BLUE</td> <td>R - RED</td> </tr> <tr> <td>G - GREEN</td> <td>P - PURPLE</td> </tr> <tr> <td>Y - YELLOW</td> <td>O - ORANGE</td> </tr> <tr> <td>S - SLATE</td> <td>W - WHITE</td> </tr> </table>	BK - BLACK	BR - BROWN	BL - BLUE	R - RED	G - GREEN	P - PURPLE	Y - YELLOW	O - ORANGE	S - SLATE	W - WHITE
BK - BLACK	BR - BROWN										
BL - BLUE	R - RED										
G - GREEN	P - PURPLE										
Y - YELLOW	O - ORANGE										
S - SLATE	W - WHITE										
3.	UNIT WIRED FOR 115 VOLTS AC OR DC POWER INPUT.										
4.	CONNECTOR VIEWED FROM SOLDER TERMINAL ENDS.										
5.	TERMINAL DESIGNATION ENCLOSED IN PARENTHESIS ARE FOR REFERENCE AND ARE NOT MARKED ON COMPONENT.										
6.	INDICATES TO TAPE END TERMINATING POINT										
7.	INDICATES SINGLE SHIELDING										
8.	REFER TO 8100WD FOR SCHEMATIC DIAGRAM.										
9.	ASSOCIATED CABLES: 327287										
10.	REFERENCE SPECIFICATION FOR TELETYPE CORPORATION EMPLOYEES ONLY 6820S.										

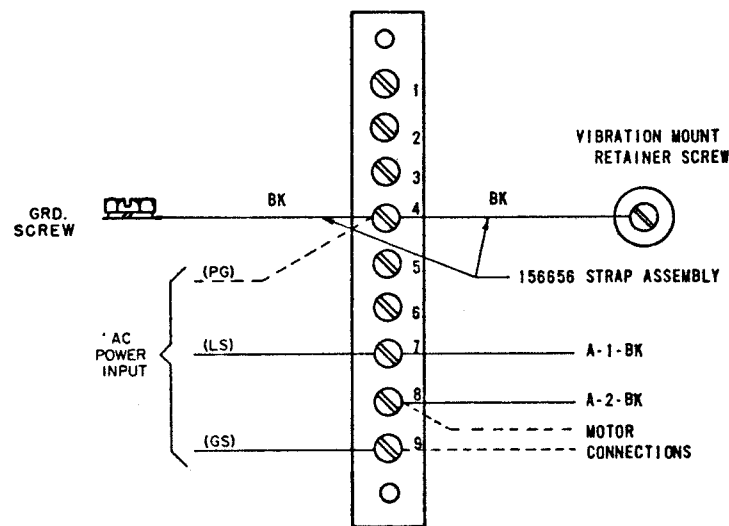
A  
(C)  
POWER SWITCH  
ASSEMBLY  
(124396)



B  
(D)  
UPPER TERMINAL  
BOARD  
(151411)



C  
(E)  
LOWER TERMINAL  
BOARD  
(151411)



D  
(H)  
CONNECTOR  
(161595)

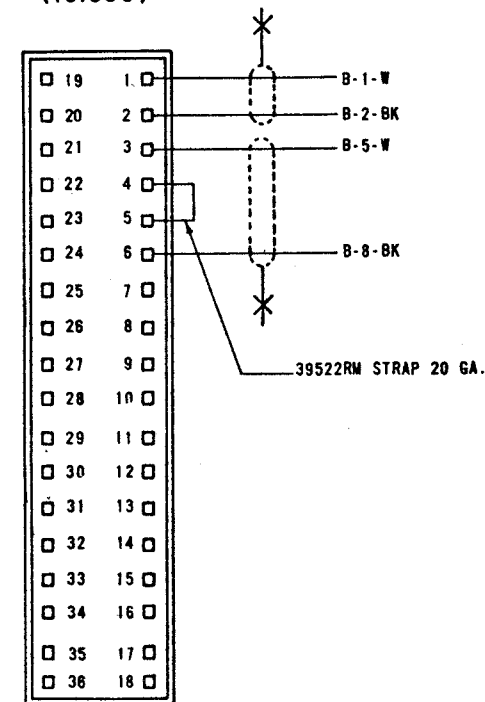
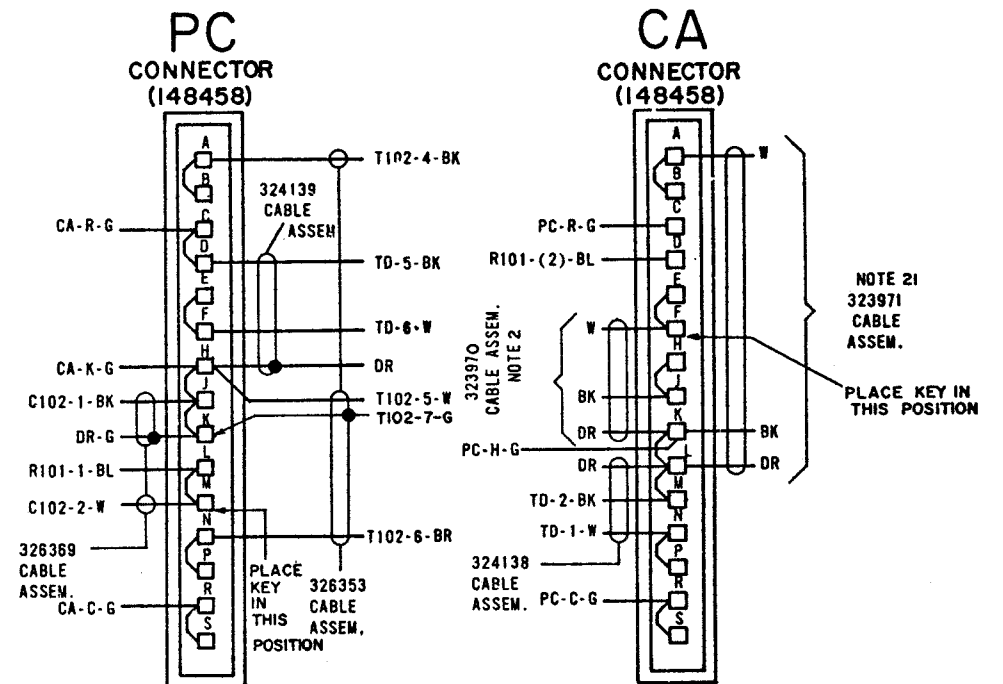
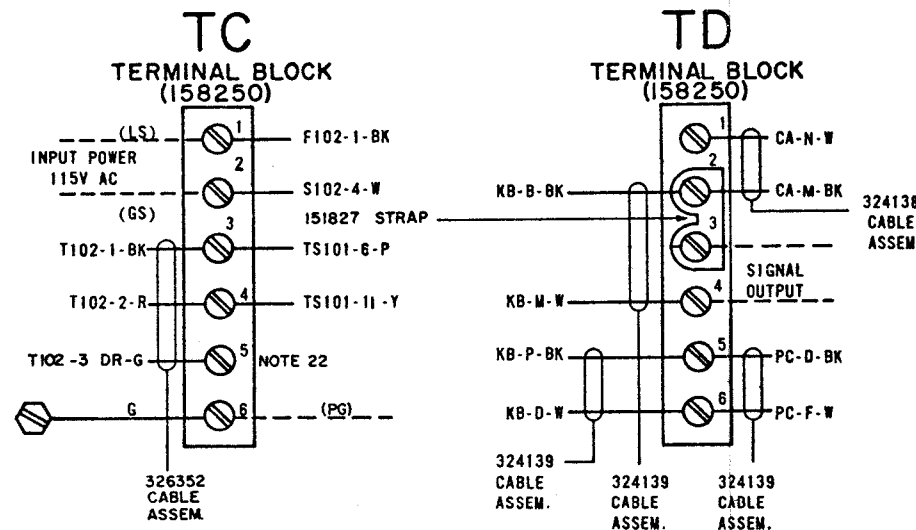
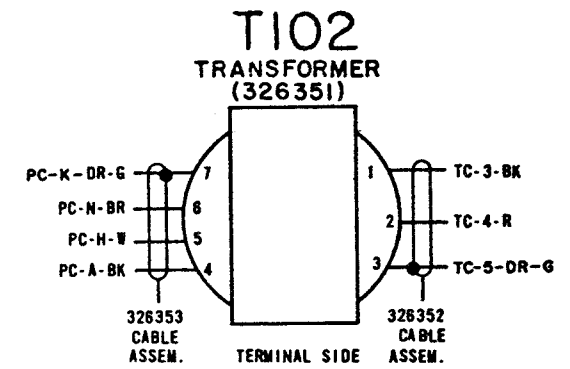
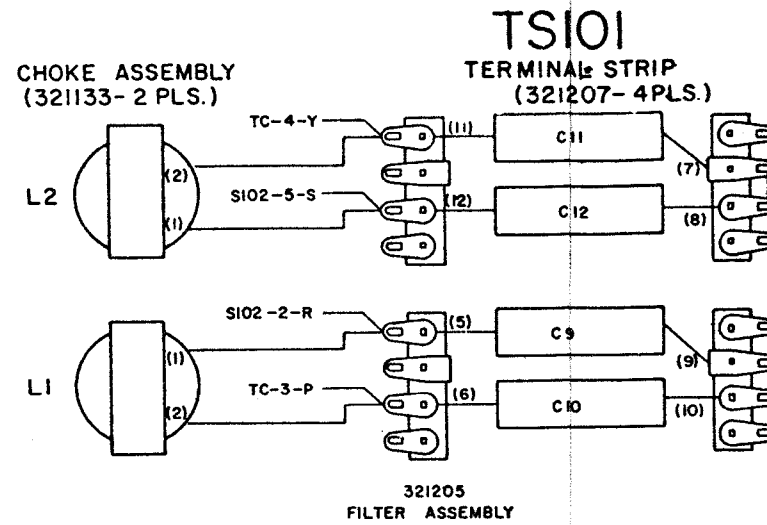
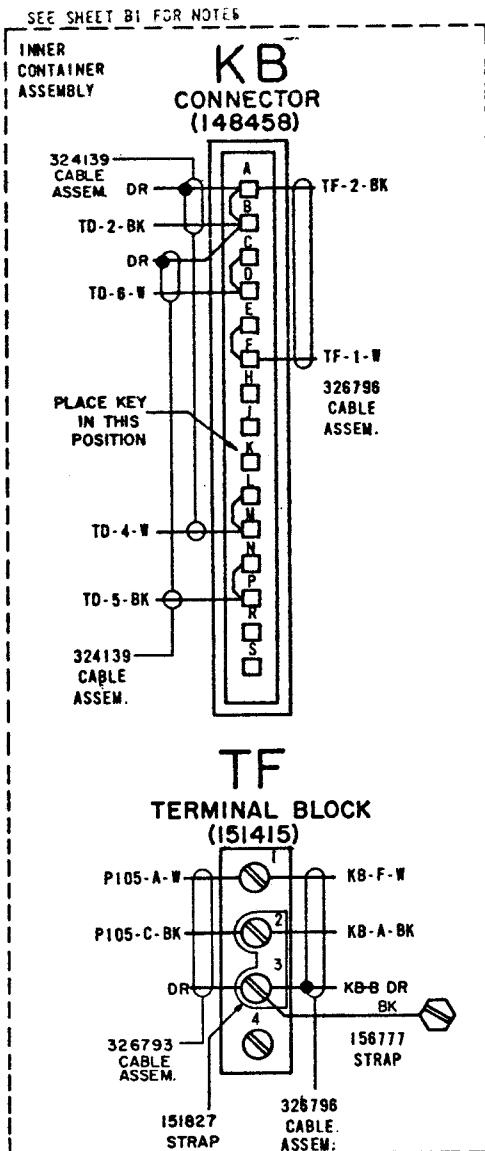
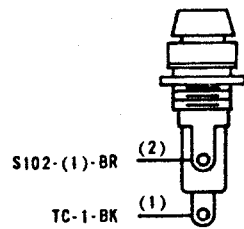


Figure 5-11. Transmitter Distributor Base LXDB20 Wiring Diagram

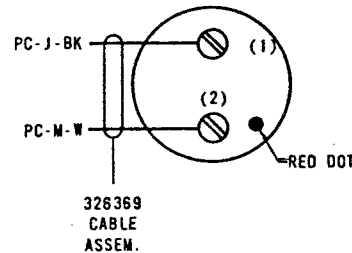




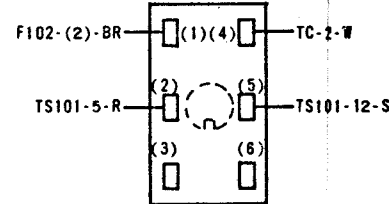
**F102 FUSE HOLDER (116783)**



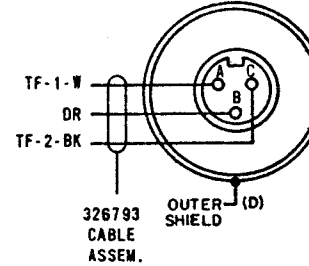
**C102 CAPACITOR (321129)**



**S102 SWITCH (118659)**



**P105 CONNECTOR (324141)**



**R101 RESISTOR (172726)**

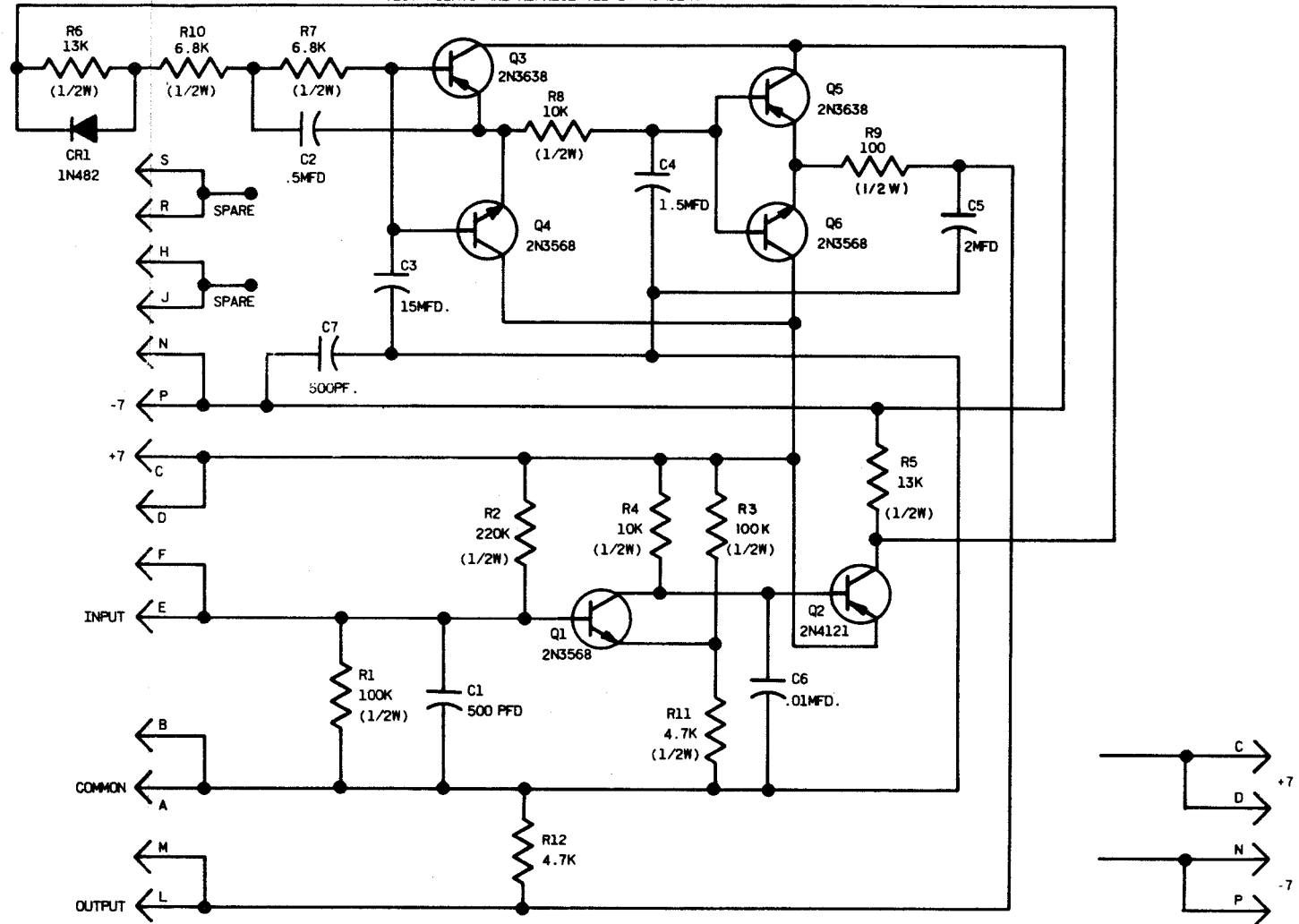


Figure 5-13. Electrical Service Assembly 326792 Wiring Diagram

REF DESIG.	FAR. 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 100 Ω 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
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	

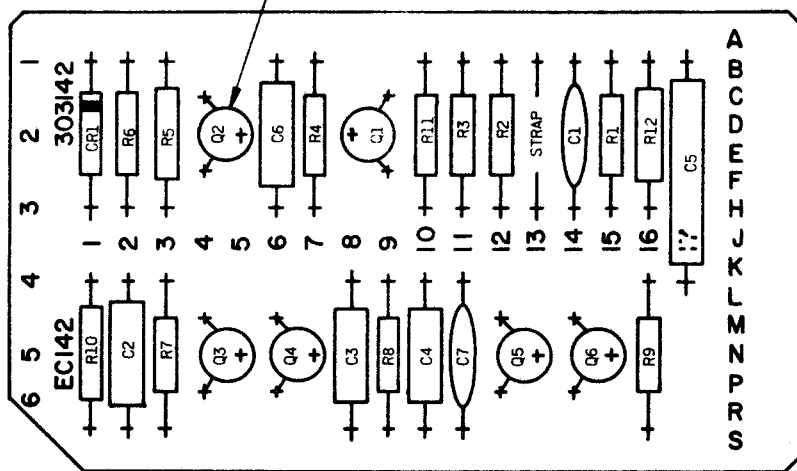
**POLAR LINE KEYS ± 6V**

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

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
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

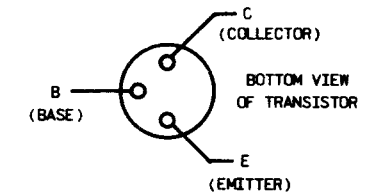


Figure 5-14. Low-Level Keyer 303142 (Polar Line Keyer) Schematic Diagram



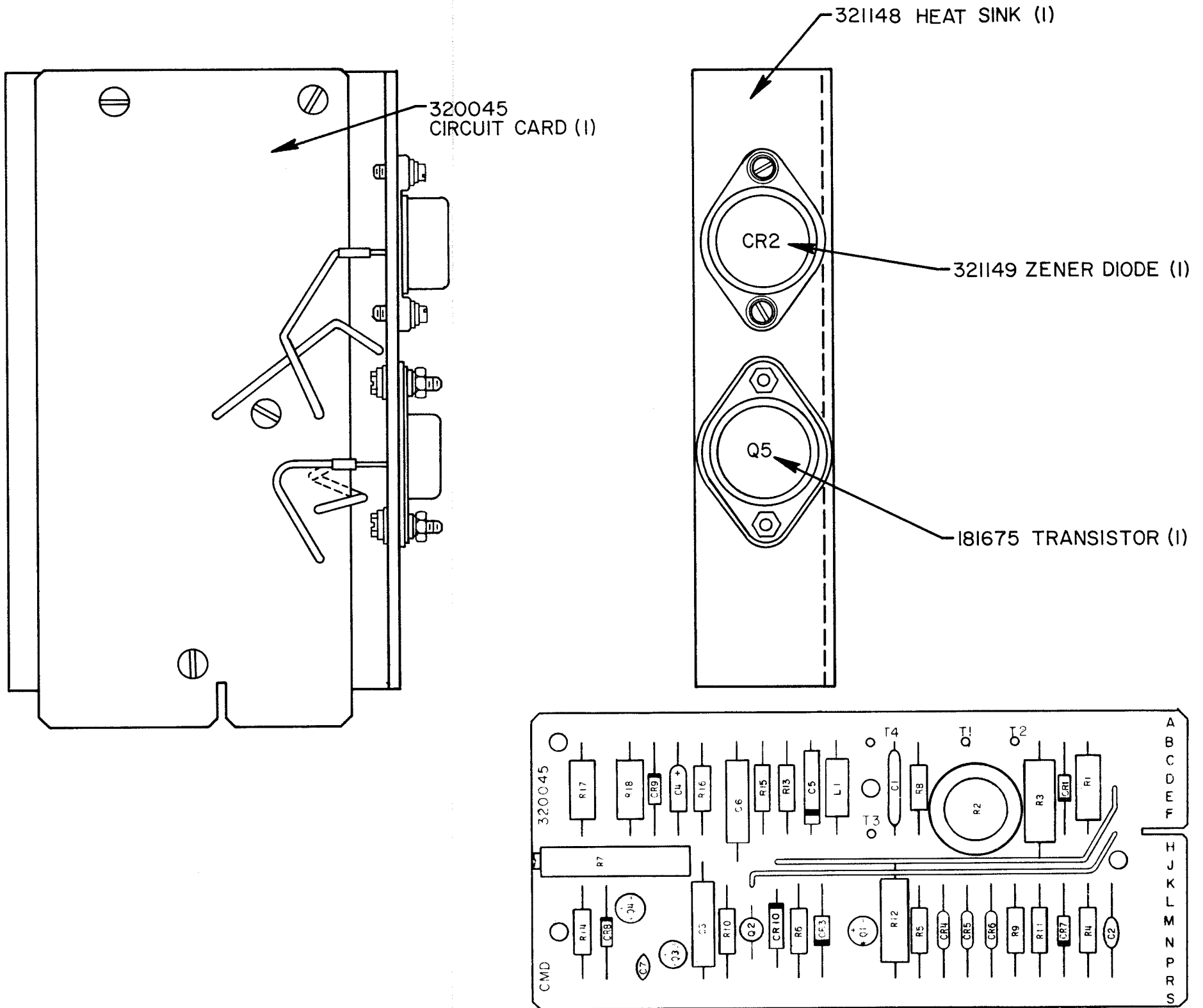
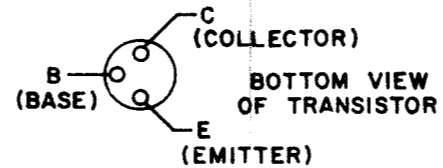


Figure 5-15. Clutch Magnet Driver 321991 Schematic Diagram  
(Sheet 1 of 2)

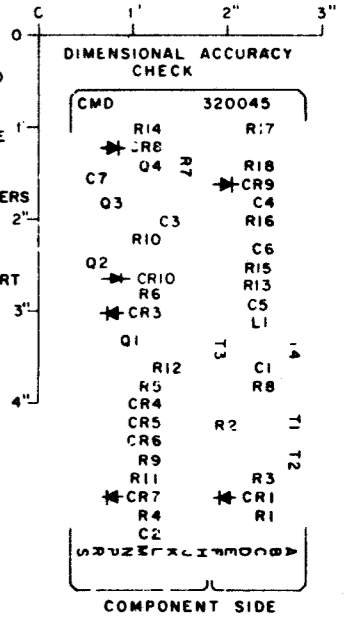
USED ON 321991

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, #1%	REG. CURRENT LIMITER
R2	182773	1	POTENTIOMETER, 3 OHM, 2.5 W	REG. CURRENT ADJ.
R3	321155	1	RESISTOR, 2K, 2W, 5%	Q1 CURRENT LIMITER
R4	118720	1	RESISTOR, 100K, 1/2 W, 5%	Q1 OPEN LINE BIAS
R5	118720	1	RESISTOR, 100K, 1/2 W, 5%	INPUT RESISTOR
R6	129854	1	RESISTOR, 10K, 1.2W	Q1 BIAS
R7	321160	1	POTENTIOMETER, 5M	Q1 BIAS
R8	118146	1	RESISTOR, 4.7K, 1/2 W, 5%	Q1 EMITTER RES.
R9	129850	1	RESISTOR, 680 OHM, 1/2 W, 5%	VOLTAGE DIVIDER
R10	321258	1	RESISTOR, 20K, 1/2 W, 5%	Q1 LOAD RES.
R11	137604	1	RESISTOR, 620 OHM, 1/2 W, 5%	VOLTAGE DIVIDER
R12	321292	1	RESISTOR, 1.3K, 2W, 5%	CR7 CURRENT LIMITER
R13	139143	1	RESISTOR, 43K, 1/2 W, 5%	Q2 LOAD RES.
R14	321259	1	RESISTOR, 15 OHM, 1/2 W, 5%	Q3 EMITTER RES.
R15	165178	1	RESISTOR, 3.6K, 1 W, 5%	Q3 LOAD RES.
R16	137442	1	RESISTOR, 1.5K, 1/2 W, 5%	C4 BLEEDER RES.
R17	321151	1	RESISTOR, 110 OHM, 3W, 1%	COIL CURRENT LIMITER
R18	321258	1	RESISTOR, 20K, 1/2 W, 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
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, 1N750A, 4.7V ± 5%	TEMP. COMP. REF.
CR8	177611	1	DIODE, 1N382	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)	
	137471	4	LUG, TERMINAL	



- 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.



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 (#6) AND OUTPUT CONNECTED TO A 150 OHM RESISTOR (5W)												
4.	R7 IS ADJUSTED FOR SYMMETRICAL SWITCHING ABOUT ZERO.												
5.	<table border="0"> <tr><td>PINS A, B</td><td>140 MA TO COILS</td></tr> <tr><td>PINS R, S</td><td>-6V DC</td></tr> <tr><td>PINS C, D</td><td>+47 TO 53V DC POWER</td></tr> <tr><td>PINS E, F, H, J</td><td>CONTROL CONTACT PROVISION</td></tr> <tr><td>PINS N, P</td><td>MS 1888 SIGNAL INPUT</td></tr> <tr><td>PINS K, L, M</td><td>COMMON</td></tr> </table> <p>(ALL INPUTS AND OUTPUTS REFERRED TO COMMON)</p>	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, P	MS 1888 SIGNAL INPUT	PINS K, L, M	COMMON
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, P	MS 1888 SIGNAL INPUT												
PINS K, L, M	COMMON												
6.	S-NUMBER 61,263\$												

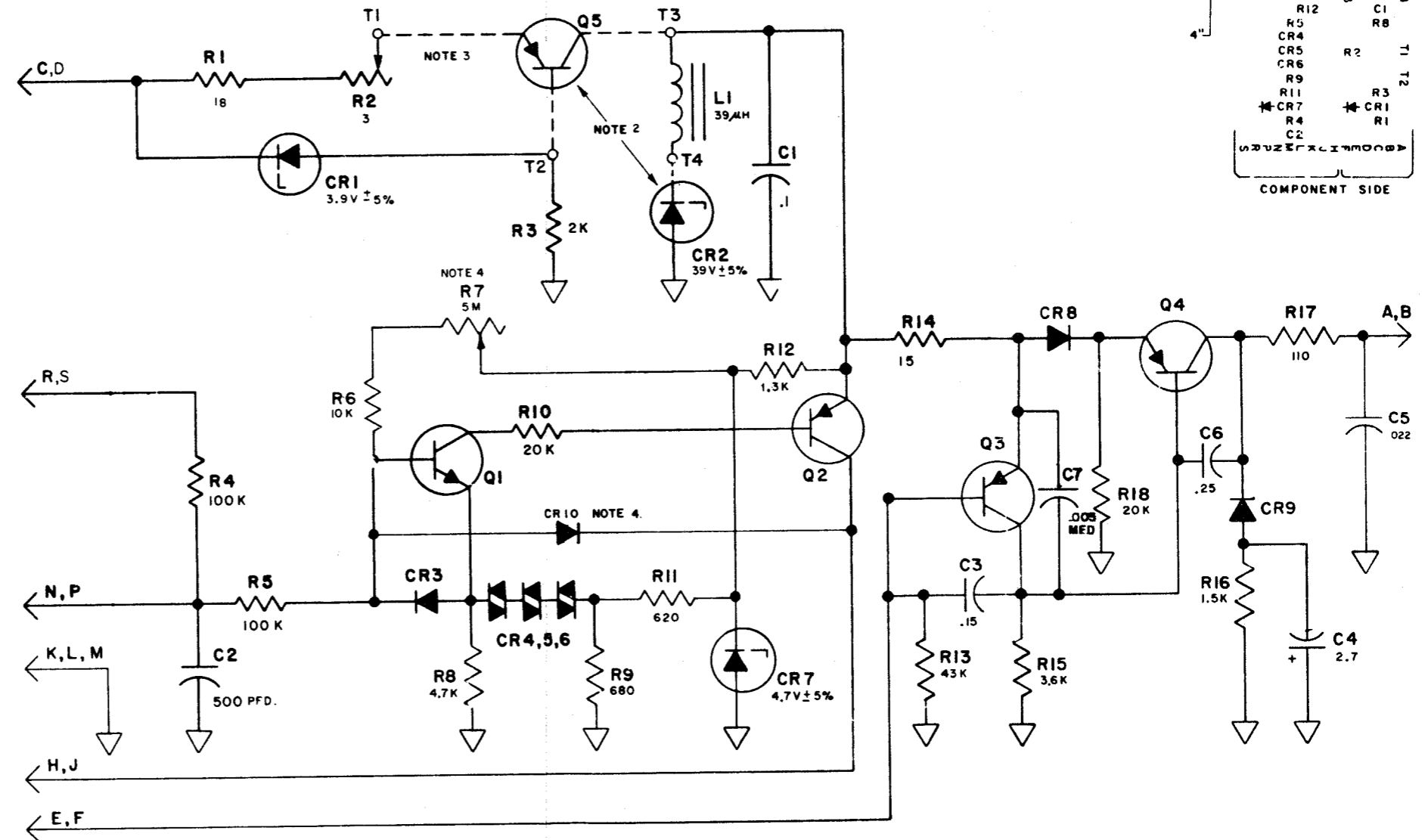
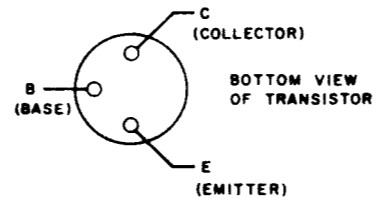
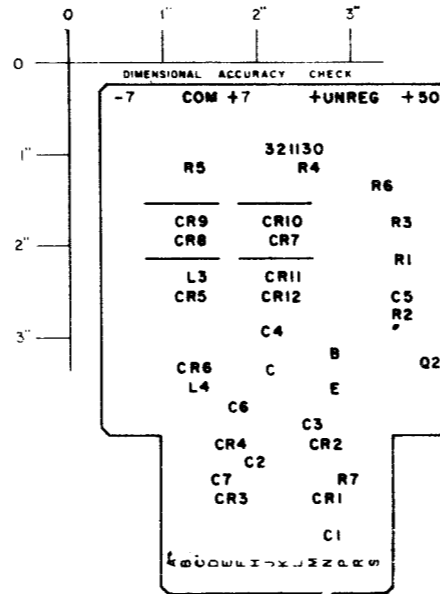


Figure 5-15. Clutch Magnet Driver 321991 Schematic Diagram (Sheet 2 of 2)

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, 1.5MFD 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	312385	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	311654	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)	
P1-3	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.

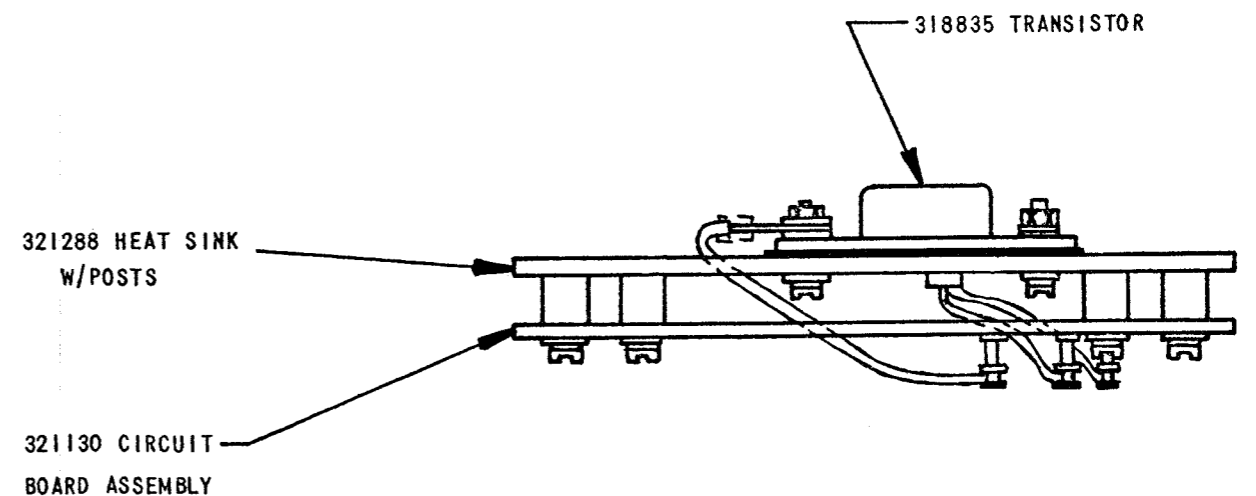
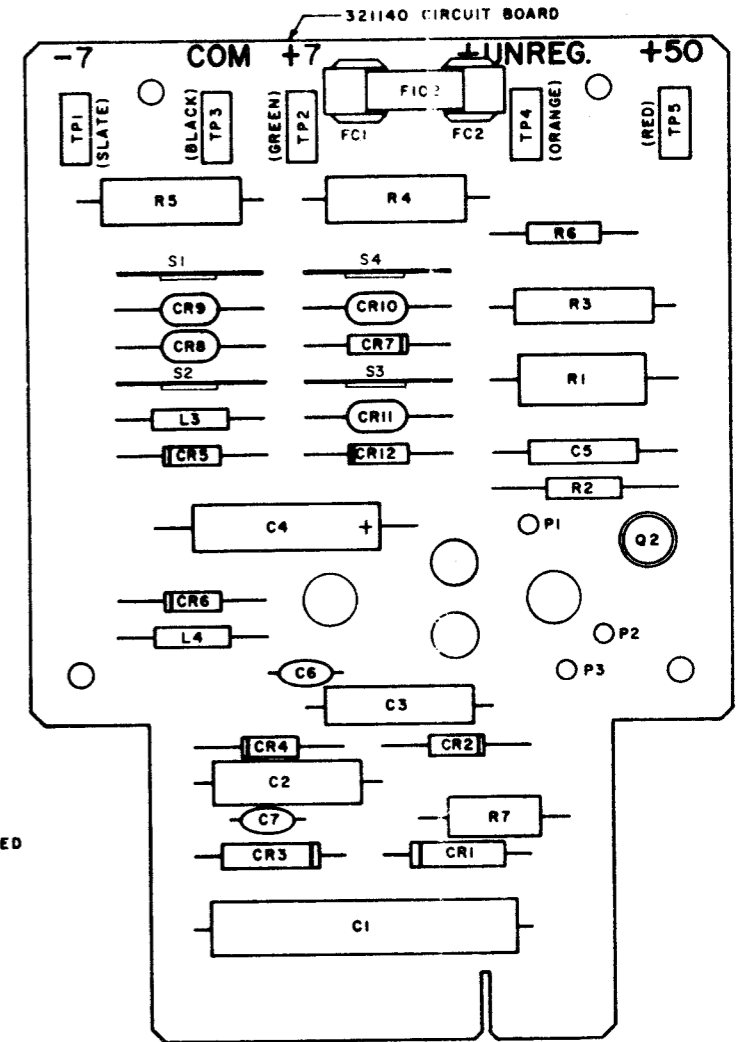


Figure 5-16. Power Supply 321290 (0.5 Ampere) Schematic Diagram (Sheet 1 of 2)

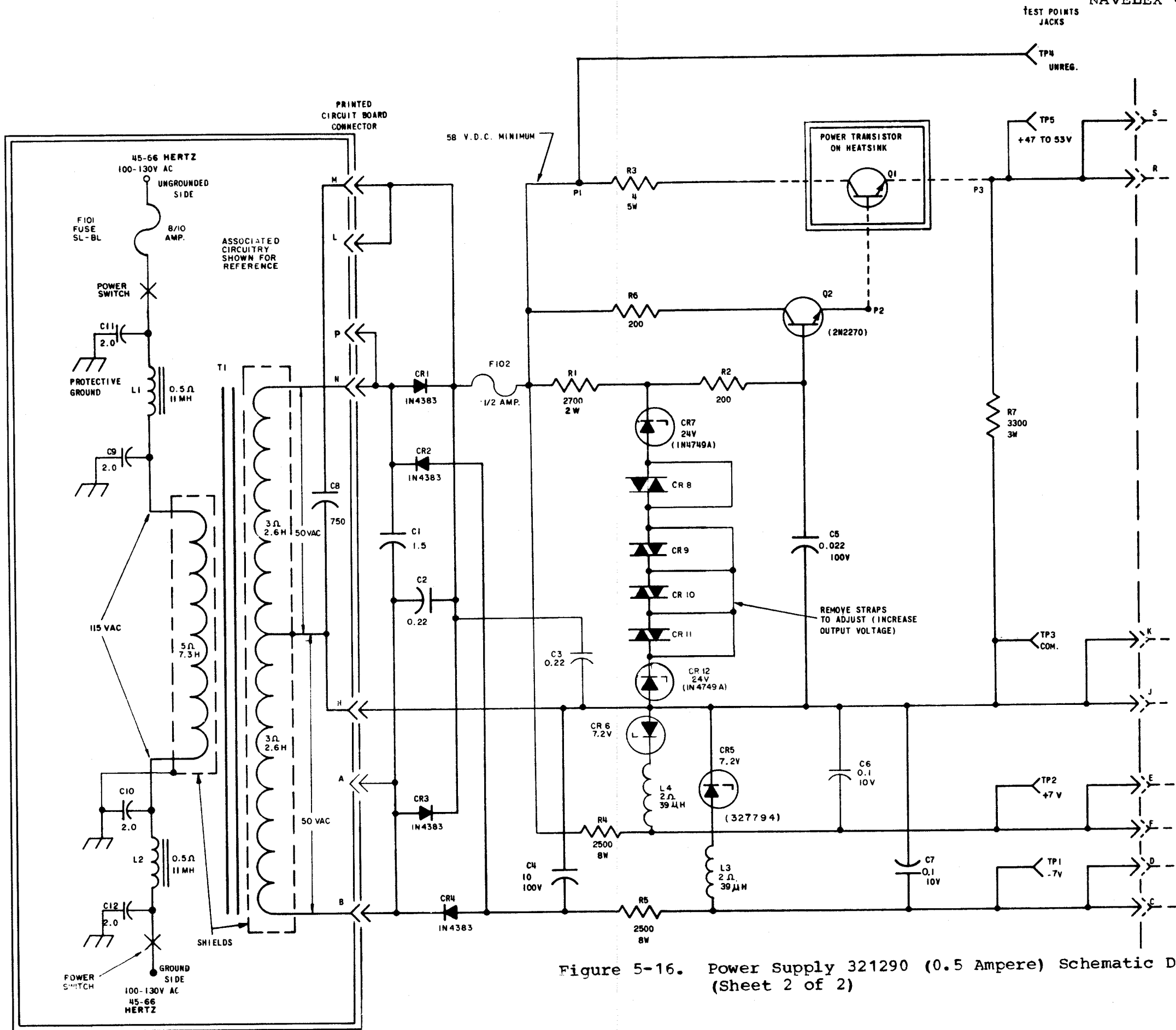
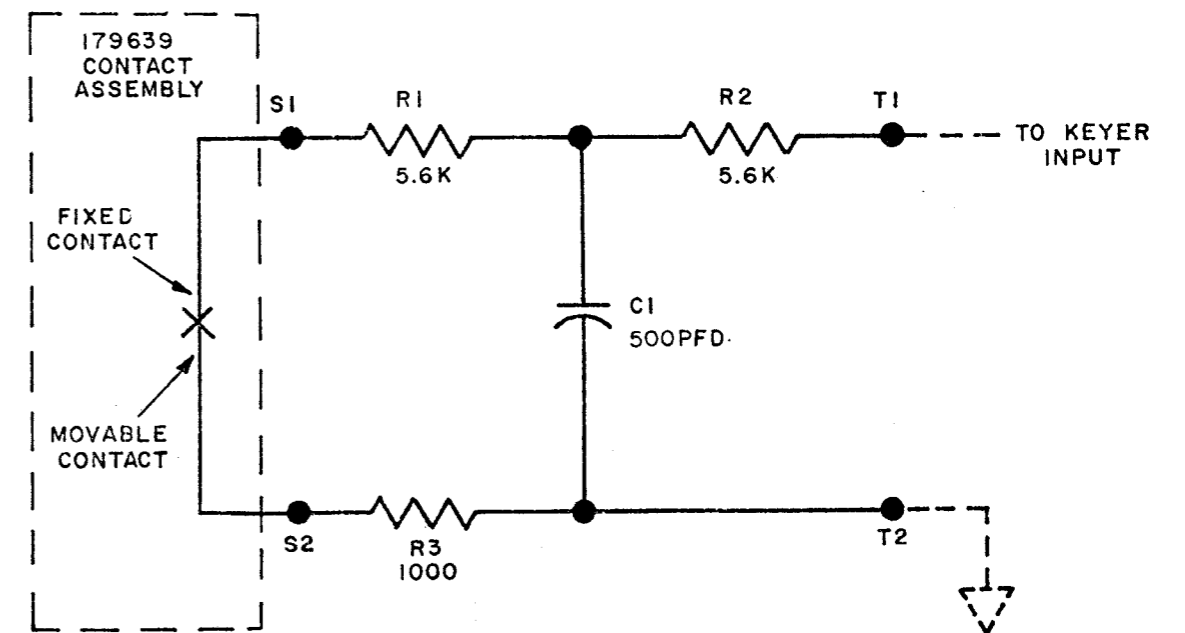
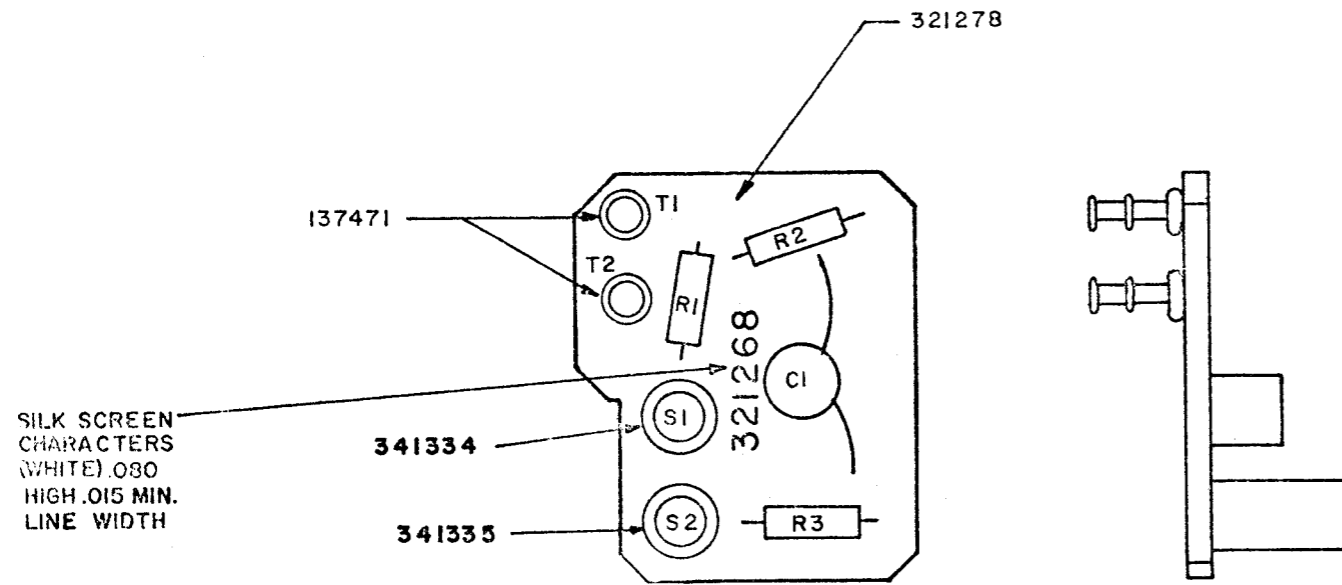


Figure 5-16. Power Supply 321290 (0.5 Ampere) Schematic Diagram (Sheet 2 of 2)



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 5-17. Filter Card Assembly 321268 Schematic Diagram