

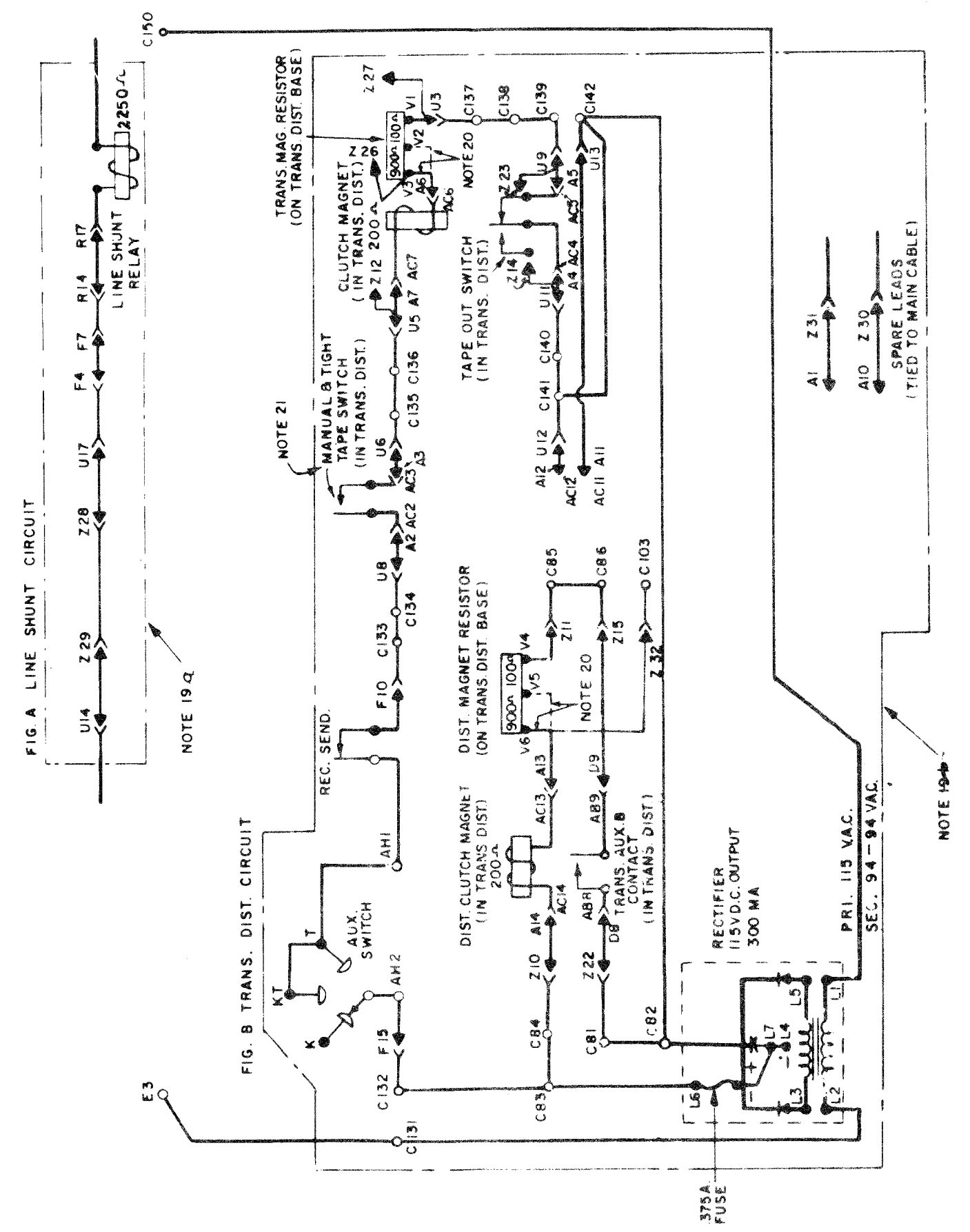
3659 WD		REVISIONS	
ISSUE	DATE	AUTH. NO.	
A	8-4-58	28-11508	
B	3-28-62	67768-10	
C	11-26-63	78860	

3659 WD	
DATE	1-19-59
P.D. FILE NO.	G-159.65AA
DRAWN K.F.L.	CHKD. R.P.
ENG. J.R.H.	APPD. R.P.
TELETYPE CORPORATION	
3659 WD	

SHEET 1 OF 2	
APPROVALS	
D AND. 8	E R F M
E NUMBER	
PROD. NO.	3659 WD
SCHEMATIC WIRING DIAGRAM MODEL 28 ASR-GP-OPT. I.A.C. WITH FACILITIES PROVIDED BY ELECT. SERVICE UNIT LESU 35 AND ASSOCIATED UNITS	
SEE SHEET 2 FOR NOTES	

NO.	NOTES														
1	FOR ACTUAL WIRING DIAGRAMS OF INDIVIDUAL UNITS SEE: <table border="1"> <tr> <th>WD NUMBER</th> <th>UNITS DIRECTLY OPERABLE WITH LESU</th> </tr> <tr> <td></td> <td>CABINETS - LAAC 200, 201</td> </tr> <tr> <td></td> <td>ELECTRICAL SERVICE UNIT LESU</td> </tr> <tr> <td></td> <td>KEYBOARDS-LAK</td> </tr> <tr> <td></td> <td>MOTOR UNITS-LMU</td> </tr> <tr> <td></td> <td>PAGE TYPING UNITS-LP</td> </tr> <tr> <td></td> <td>PAGE TYPING UNITS-LP</td> </tr> </table>	WD NUMBER	UNITS DIRECTLY OPERABLE WITH LESU		CABINETS - LAAC 200, 201		ELECTRICAL SERVICE UNIT LESU		KEYBOARDS-LAK		MOTOR UNITS-LMU		PAGE TYPING UNITS-LP		PAGE TYPING UNITS-LP
WD NUMBER	UNITS DIRECTLY OPERABLE WITH LESU														
	CABINETS - LAAC 200, 201														
	ELECTRICAL SERVICE UNIT LESU														
	KEYBOARDS-LAK														
	MOTOR UNITS-LMU														
	PAGE TYPING UNITS-LP														
	PAGE TYPING UNITS-LP														
2	LEGEND <ul style="list-style-type: none"> ○ A SELECTOR MAGNET TERMINAL BLOCK (IN LESU) ○ B LINE TEST KEY TERMINAL BLOCK (IN LESU) ○ C CABINET TERMINAL BLOCK ○ D MOTOR CONTROL TERMINAL BLOCK (IN LESU) ○ E POWER TERMINAL BLOCK (IN LESU) △ F KEYBOARD CONNECTOR ○ J ⊕ TERMINAL STRIP (ON LINE RELAY ASSEM. IN LESU) △ J ⊕ LINE RELAY CONNECTOR (IN LESU) ○ J ⊕ LINE RELAY FILTER (IN LESU) ○ K TERMINAL STRIP (ON LINE TEST KEY IN LESU) △ R TYPING UNIT CONNECTOR ○ S SLOW RELEASE RELAY TERMINAL BOARD (IN LESU) ○ T TEST SWITCH TERMINAL BOARD (IN LESU) △ U TRANSMITTER DISTRIBUTOR CONNECTOR ○ AG MOTOR TERMINAL BLOCK (ON LAK) ○ AH AUXILIARY SWITCH TERMINAL BLOCK (ON LAK) △ Z TRANSMITTER DISTRIBUTOR CONNECTOR (LBXD) 														
3	DOT DASH --- LINES INDICATE FILTERING, SHIELDING AND SUPPRESSION NETWORKS														
4	ALL APPARATUS IS SHOWN IN UNOPERATED OR DE-ENERGIZED POSITIONS.														
5	a. RESISTANCE IN OHMS (Ω) b. INDUCTANCE VALUES IN MICRONEERIES (MH) c. CAPACITANCE VALUES IN MICROFARADS (MF)														
6	CIRCUITS SHOWN FOR 0.60 AMP NEUTRAL SIGNAL LINE OPERATION FOR 0.20 AMP LINE CURRENT, ADD DASHED (---) CONNECTIONS AND OMIT CONNECTIONS MARKED (---) IN LINE TEST KEY, LINE RELAY, AND ELECTRICAL MOTOR CONTROL START MAGNETS CIRCUITS.														
7	a. USE POWER & SIGNAL LINE SUPPRESSOR AND SYNC OR GOV.-FLT. MOTOR FOR INSTALLATIONS REQUIRING MINIMUM R.F. INTERFERENCE. b. FOR OTHER INSTALLATIONS, OMIT SUPPRESSORS AND CONNECT INPUTS AND GOV. MOTOR DIRECTLY TO TERMINALS SHOWN.														
8	USE SYNCHRONOUS MOTOR ON REGULATED 60~(±1%) A.C. POWER ONLY. GOVERNED MOTORS & OTHER POWER CIRCUITS OPERABLE ON 50 TO 60~ UNREGULATED A.C.														
9	CIRCUIT SHOWN FOR OPERATION FROM AN EXTERNAL D.C. POWER SUPPLY, LEADS OF WHICH ARE TO BE CONNECTED TO CABINET TERMINALS C21 AND C22.														
10	a. TO OPERATE MOTOR CONTROL, SET MUST BE EQUIPPED WITH EITHER: 1. TIME DELAY MECH. OR 2. MOTOR STOP CONTACTS. b. IF TAPE POSITION IS TO BE USED IN THE ASR SET THE TIME DELAY MECHANISM MUST BE EITHER ELECTRICALLY OR MECHANICALLY DISABLED.														
11	a. LINE SHUNT RELAY SHOWN CONTROLLED BY POWER SWITCH AND SHOWN SHUNTING LINE RELAY COIL, TRANS. DIST. SIG GEN. AND KEYBOARD SIG GEN.														

NO.	NOTES						
b.	IF KEYBOARD SHUNTING IS NOT DESIRED MOVE STRAP FROM C10 TO C9.						
c.	FOR DIRECT CONTROL OF LINE SHUNT RELAY FROM POWER SWITCH, ADD DASHED(---) CONNECTIONS AND OMIT CONNECTION MARKED(---) AT CABINET TERMINALS C34, C35, C37. CUSTOMER MAY THEN SELECT PORTION OF SIGNAL LINE CIRCUIT TO BE SHUNTED BY CONNECTING TERMINAL C13 TO EITHER C9, C10, C11, OR C15.						
12.	CIRCUIT SHOWS BOTH HORIZONTAL TABULATOR AND FORM START CONTROL USED ON TYPING UNIT. WHEN ONLY ONE CONTROL IS USED, OMIT CONNECTION MARKED (---) AND ADD PROPER DASHED (---) CONNECTION IN TYPING UNIT CIRCUITS.						
13.	FORM PAPER OUT ALARM CONTACTS MAY BE MOUNTED ON EITHER THE TYPING UNIT OR EXTERNAL TO THE CABINET. IN LATTER EVENT, CONNECTIONS ARE MADE DIRECTLY TO TERMINALS C25 AND C26.						
14.	WHEN PAPER FEED OUT SWITCH IS NOT USED, DISCONNECT MOTOR LEAD FROM AG3 AND CONNECT TO AG1.						
15.	WHEN SIGNAL LINE BREAK SWITCH IS NOT USED IN KEYBOARD ADD (---) CONNECTION AT CABINET TERMINAL BLOCK BETWEEN C10 & C11.						
16.	IN ALL KEYBOARDS F4 MUST BE CONNECTED TO F7 IN ALL TRANS. DIST. U14 MUST BE CONNECTED TO U17. IN ALL TYPING UNITS R14 MUST BE CONNECTED TO R17.						
17.	SPARE LEADS FROM U18 AND F18 ARE RESERVED FOR POLAR OPERATION OF SIGNAL GENERATOR						
18.	WHEN LBXD IS USED IN PLACE OF LXD: <table border="1"> <tr> <th>OMIT</th> <th>ADD</th> </tr> <tr> <td>C-142 TO C-150</td> <td></td> </tr> <tr> <td>C-131 TO C-132</td> <td></td> </tr> </table>	OMIT	ADD	C-142 TO C-150		C-131 TO C-132	
OMIT	ADD						
C-142 TO C-150							
C-131 TO C-132							
19.	WHEN LBXD USED IN PLACE OF LXD USE FOLLOWING FIGURES a. FIG. A --- LINE SHUNT CIRCUIT b. FIG. B --- TRANS. DIST. CIRCUIT c. FIG. C --- SIGNAL GENERATING CIRCUIT						
20.	CIRCUIT SHOWN FOR 115 V.D.C. POWER INPUT TO TRANS DIST CLUTCH MAGNETS. FOR 48 V.D.C. POWER INPUT REMOVE AND ADD CONNECTIONS AS FOLLOWS: DISCONNECT THE WHITE LEAD FROM V6 AND CONNECT TO V5. DISCONNECT THE PURPLE LEAD FROM V3 AND CONNECT TO V2						
	POWER SUPPLY MUST DELIVER 300 MA @ 48 V.D.C. OR 200 MA @ 115 V.D.C.						
21.	WHEN LXD5 IS USED, REMOVE THE STRAP BETWEEN TERMINALS C135-C136. ADD TWO 162365 STRAPS, ONE BETWEEN TERMINALS C23-C125 AND ONE BETWEEN TERMINALS C24-C136						



(CONT'D ABOVE)