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REVISIONS

ISSUE	DATE	AUTH. NO.
E	3-30-60	28-12924
F	4-21-60	28-12936
G	5-29-61	69913
H	3-28-62	69768-10
J	11-26-63	78860
K/2	2-11-64	79910

SHEET 1 OF 3

APPROVALS

SCHEMATIC WIRING DIAGRAM MODEL 28 ASR-GP-OPT II AC WITH FACILITIES PROVIDED BY ELECT. SERVICE UNIT LESU 15 AND ASSOCIATED UNITS

E NUMBER

PROD. NO. 3298 WD

DATE: 11-17-59

P.D. FILE NO. 27-A65AA

DRAWN R.O. | CHKD.

ENGD. | APPD.

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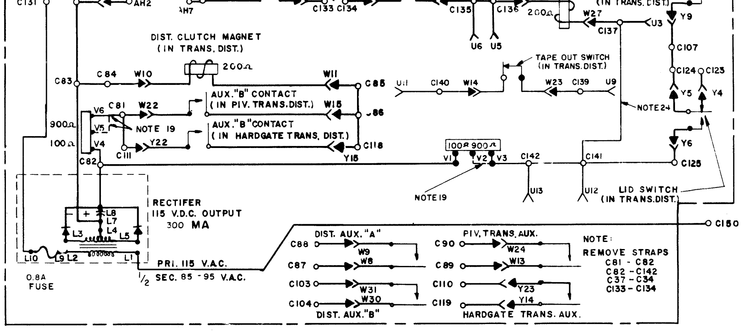
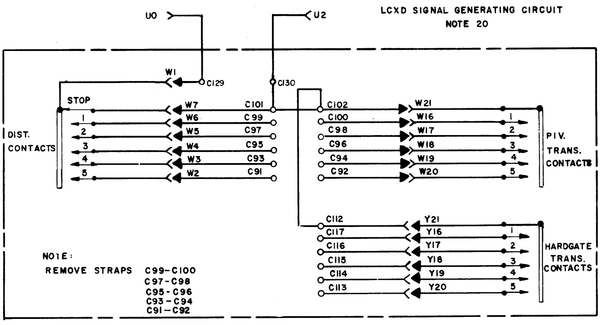
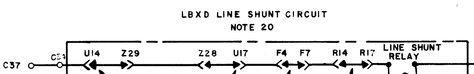
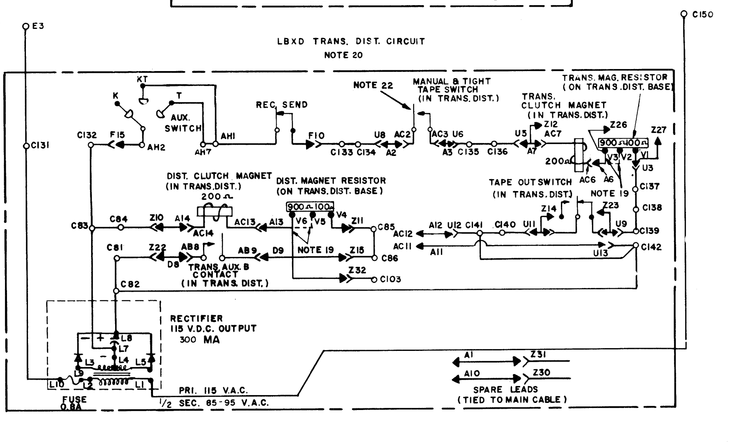
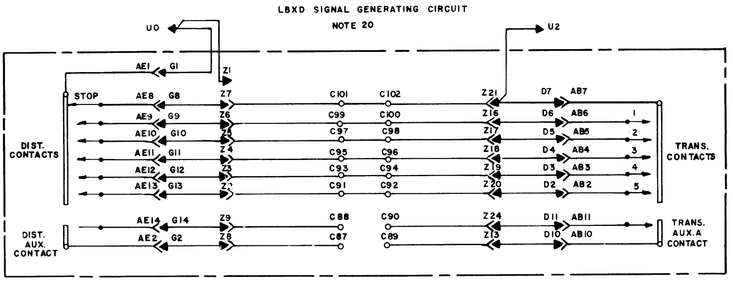




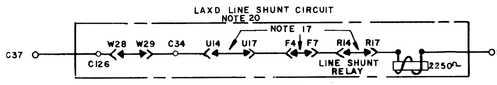
LBXD

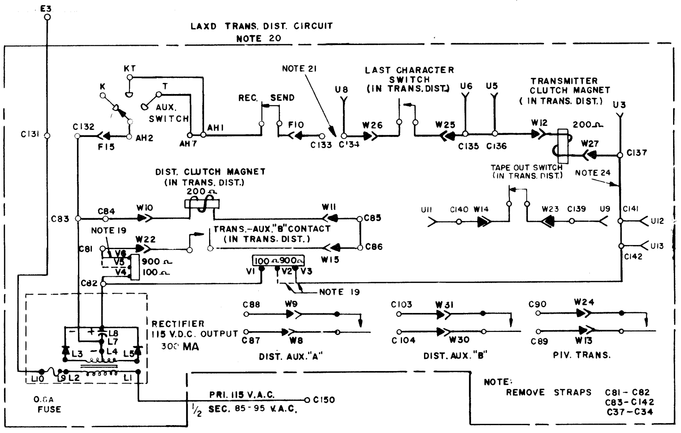


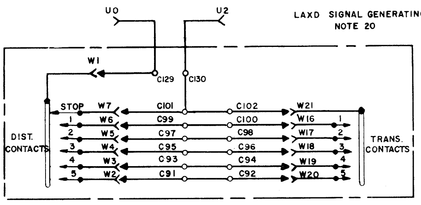




LAXD







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SCHEMATIC WIRING DIAGRAM MODEL 28 ASR-SP-OPTION WITH FACILITIES PROVIDED BY ELECTRONIC SERVICE UNIT LESU 15 AND ASSOCIATED UNITS

SHEET 2 OF 3

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12	2-11-64	7890	

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NO. 1 — NOTES

FOR ACTUAL WIRING DIAGRAMS OF INDIVIDUAL UNITS SEE:

WD NUMBER	UNITS DIRECTLY OPERABLE WITH LESU
3264 WD	CABINETS – LAAC 209,210
3292 WD	ELECTRICAL SERVICE UNIT LESU 15
3302 WD	KEYBOARDS – LAK 4
2900 WD	MOTOR UNITS – LMU 12 OR 14
2864 WD	PAGE TYPING UNITS – LP
3300 WD	TRANSMITTER DISTRIBUTOR – LXD 3
3288 WD	TRANSMITTER DISTRIBUTOR – LAXD 3 & LCXD 1
3251 WD	TRANSMITTER DISTRIBUTOR – LBXD 5
3452 WD	TRANSMITTER DISTRIBUTOR BASE – LCXB 7

NO. 2 — NOTES

LEGEND

- O A SELECTOR MAGNET TERMINAL BLOCK (IN LESU)
- O B LINE TEST KEY TERMINAL BLOCK (IN LESU)
- O C CABINET TERMINAL BLOCK
- O D MOTOR CONTROL TERMINAL BLOCK (IN LESU)
- O E POWER TERMINAL BLOCK (IN LESU)
- ◀ F KEYBOARD CONNECTOR
- O J (1) TERMINAL STRIP (ON LINE RELAY ASSEM. IN LESU)
- ◀ J (2) LINE RELAY CONNECTOR (IN LESU)
- ● J (3) LINE RELAY FILTER (IN LESU)
- O K TERMINAL STRIP (ON LINE TEST KEY IN LESU)
- ◀ R TYPING UNIT CONNECTOR
- O S SLOW RELEASE RELAY TERMINAL BOARD (IN LESU)
- O T TEST SWITCH TERMINAL BOARD (IN LESU)
- ◀ U TRANSMITTER DISTRIBUTOR CONNECTOR
- O AG MOTOR TERMINAL BLOCK (ON LAK)
- O AH AUXILIARY SWITCH TERMINAL BLOCK (ON LAK)

NO. 3 — NOTES

DOT DASH (– – ––) LINES INDICATE FILTERING, SHIELDING AND SUPPRESSION NETWORKS.

NO. 4 — NOTES

ALL APPARATUS IS SHOWN IN UNOPERATED OR DE-ENERGIZED POSITIONS.

NO. 5 — NOTES

a. RESISTANCE IN OHMS (Ω)
b. INDUCTANCE VALUES IN MICROHENRIES (MH)
c. CAPACITANCE VALUES IN MICROFARADS (MF)

NO. 6 — NOTES

CIRCUITS SHOWN FOR .060 AMP. NEUTRAL SIGNAL LINE OPERATION. FOR .020 AMP. LINE CURRENT, ADD DASHED (– – –) CONNECTIONS AND OMIT CONNECTIONS MARKED (–X–) IN LINE TEST KEY, AND LINE RELAY CIRCUITS.

NO. 7 — NOTES

USE POWER & SIGNAL LINE SUPPRESSOR AND SYNC. OR GOV-FILT. MOTOR FOR INSTALLATIONS REQUIRING MINIMUM R.F. INTERFERENCE.

FOR OTHER INSTALLATIONS, OMIT SUPPRESSORS AND CONNECT INPUTS AND GOV. MOTOR DIRECTLY TO TERMINALS SHOWN.

NO. 8 — NOTES

USE SYNCHRONUS MOTOR ON REGULATED 60~ (±1%) A.C. POWER ONLY. GOVERNED MOTORS AND OTHER POWER CIRCUITS OPERABLE ON 50 TO 60~ UNREGULATED A.C.

NO. 9 — NOTES

RECTIFIER SHOWN CONTROLLED BY POWER SWITCH.

FOR CONTINUOUS OPERATION, MOVE RECTIFER LEAD L10 FROM E2 TO E1.

NO. 10 — NOTES

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.

NO. 11 — NOTES

A. LINE SHUNT RELAY SHOWN SHUNTING LINE RELAY COIL, TRANS. DIST. SIG. GENERATOR AND KEYBOARD SIG. GEN..

B. IF KEYBOARD SHUNT 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 CONN. MARKED (–X–) AT CABINET TERMINALS C34, C35, C37 CUST. MAY THEN SELECT PORTION OF SIG. LINE CKT. TO BE SHUNT. BY CONNECTING TERM. C13 TO EITHER C9, C10, C11, C15.

NO. 12 — NOTES

CIRCUIT SHOWS BOTH HORIZONTAL TABULATOR AND FORM START CONTROL USED ON TYPING UNIT. WHEN ONLY ONE CONTROL IS USED, OMIT CONNECTION MARKED (–X–) AND ADD PROPER DASHED (– – –) CONNECTION IN TYPING UNIT CIRCUITS.

NO. 13 — NOTES

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.

NO. 14 — NOTES

WHEN PAPER FEED SWITCH IS NOT USED, ADD DASHED (– – –) CONNECTIONS AND OMIT CONNECTIONS MARKED (–X–) IN MOTOR POWER CIRCUITS.

NO. 15 — NOTES

WHEN SIGNAL LINE BREAK SWITCH IS NOT USED IN KEYBOARD ADD DASHED (– – –) CONNECTION AT CABINET TERMINAL BLOCK BETWEEN C10 AND C11.

NO. 16 — NOTES

TO PREVENT SLOW RELEASE RELAY FROM ENERGIZING REMOVE CONNECTIONS MARKED (–X–).

NO. 17 — NOTES

IN ALL KEYBOARDS F4 MUST BE CONNECTED TO F7
IN ALL TRANS. DIST. UI4 MUST BE CONNECTED TO UI7
IN ALL TYPING UNITS RI4 MUST BE CONNECTED TO RI7

NO. 18 — NOTES

SPARE LEADS FROM UI8 AND FI8 ARE RESERVED FOR POLAR OPERATION OF SIGNAL GENERATOR.

NO. 19 — NOTES

CIRCUIT SHOWN FOR 115 V.D.C. POWER INPUT TO TRANS. DIST. CLUTCH MAGNETS. FOR 48 V.D.C POWER INPUT MOVE WIRE CONNECTIONS AS FOLLOWS:

UNIT	WIRE INVOLVED	MOVE CONNECTION FROM	TO
LAXD & LCXD	C81 TO V6	V6	V5
	C142 TO V3	V3	V2
LBXD	A13 TO V6	V6	V5
	A6 TO V3	V3	V2

POWER SUPPLY MUST DELIVER 300 MA @ 48 V.D.C. OR 200 MA @ 115 V.D.C.

NO. 20 — NOTES

USE APPROPRIATELY LABELED LXD, LAXD, LBXD OR LCXD CIRCUITRY AND MAKE CONNECTIONS AS SHOWN.

NO. 21 — NOTES

CUSTOMER MUST SUPPLY EXTERNAL SWITCHING AS FOLLOWS:

LXD —— NONE

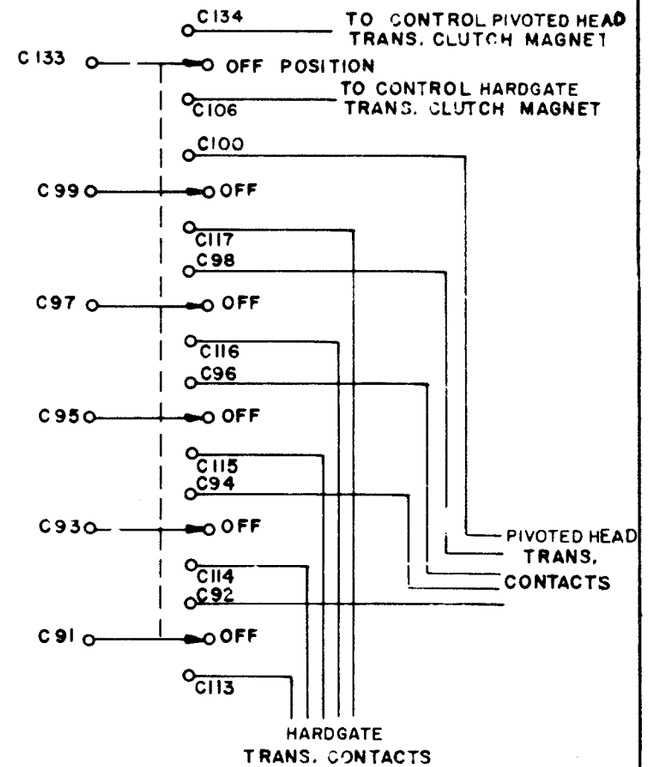
LAXD —— BETWEEN C133 AND C134 TO CONTROL TRANS. CLUTCH MAGNET.

LBXD —— NONE

(CONTINUED)

NO. 21 (CONT.) — NOTES

LCXD —— AS PER DIAGRAM BELOW:



NO. 22 — NOTES

WHEN A SEPARATE TIGHT TAPE SWITCH IS USED IN LBXD THIS SWITCH BECOMES A MANUAL ON – OFF SWITCH ONLY.

NO. 23 — NOTES

WHEN LXD IS USED, REMOVE THE STRAP BETWEEN TERMINALS C135 – C136. ADD TWO 176162 STRAPS, ONE BETWEEN TERMINALS C23 – C135 AND ONE BETWEEN C24 – C136.

NO. 24 — NOTES

TO CONTROL PIVOTED READER FROM ITS TAPE OUT CONTACTS, REMOVE THE STRAP FROM TERMINALS I37 TO I41 AND PROVIDE SUITABLE CIRCUITRY. THE TAPE OUT CONTACTS MAY NOT BE USED DIRECTLY SINCE THEY OPEN MOMENTARILY.

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