

28 AUTOMATIC SEND-RECEIVE (ASR) TELETYPEWRITER SETS

FOR U. S. NAVY

COMPONENT WIRING DIAGRAMS

1. GENERAL

1.01 This section contains schematic and/or actual wiring diagrams for the component units of Automatic Send-Receive Teletypewriter Sets listed in Section 573-101-000TC.

1.02 An overall typical schematic wiring diagram of a set is included in the description Section 573-101-100TC.

Note: Wiring diagram numbers are followed with suffix A or S to designate actual or schematic. The numbers are arranged numerically in the section but not in the diagram index.

2. WIRING DIAGRAM INDEX

SUBJECT	NAVY DESIGNATION	DESIGNATION OF MANUFACTURER	WIRING DIAGRAM NUMBER	ISSUE
MOTOR UNITS	PD-17A/U	LMU 3	2900WD-A	42
	PD-18/U	LMU 4	2900WD-A	42
	PD-18A/U	LMU 41	2900WD-A	42
	PD-67/U	LMU 12	2900WD-A	42
	PD-77/U	LMU 14	2900WD-A	42
	PD-77A/U	LMU 39	2900WD-A	42
	PD-108/U	LMU 38	2900WD-A	42
	PD-111/U	LMU 50	2900WD-A	42
TYPING UNITS	MX-1115B/UG	LP14RN/AY	3214WD-A	44
	MX-1422A/UG	LP14RE/AY	3214WD-A	44
	MX-2984/UG	LP14RN/AGH	3214WD-A	44
	TT-325/UG	LP14RN/AHF	3214WD-A	44
	TT-372/UG	LP108RN/AY	3214WD-A	44
	TT-378/UG	LP108RE/ACX	3214WD-A	44
	TT-400/UG	LP14RE/ACX	3214WD-A	44
	TT-437/UG	LP14RN/AJG	3214WD-A	44
	TT-441/UG	LP14RE/AJG	3214WD-A	44
	TT-374/UG	LP108RN/AGH	3813WD-A	D
	TT-436/UG	LP14RN/AJE	3813WD-A	D
CABINETS	CY-2529/UG	LAAC 200	3264WD-A	20
	CY-3082/UG	LAAC 237	3264WD-A	20
ELECTRICAL SERVICE UNITS	SB-959/UG	LESU 13	3292WD-A	19
			3294WD-S	24
	SB-1061/UG	LESU 12	3344WD-A	K
			3343WD-S	P

2. WIRING DIAGRAM INDEX continued

SUBJECT	NAVY DESIGNATION	DESIGNATION OF MANUFACTURER	WIRING DIAGRAM NUMBER	ISSUE
ELECTRICAL SERVICE UNITS	SB-1302/UG	LESU 73	4385WD-A	B
	SB-2611/UG	LESU 96	4386WD-S	C
	SB-2680/UG	LESU111	5930WD-A	ORIG
			5931WD-S	A
TRANSMITTER DISTRIBUTOR	SB-2680/UG	LESU111	7015WD-A	5
	SB-2680/UG	LESU111	7016WD-S	3
TRANSMITTER DISTRIBUTOR	TT-251/UG	LXD 3	3300WD-A	G
	TT-439/UG	LXD 27	3300WD-A	G
	TT-311/UG	LXD 11	4264WD-A	9
TRANSMITTER DISTRIBUTOR BASE	MT2099/UG	LCXB1	—	
	MT2452/UG	LCXB 13	4265WD-A	C
KEYBOARD BASE	MX-2643/UG	LAK 4ARN	3302WD-A	17
	MX-2858/UG	LAK 4ARE	3302WD-A	17
	TT-371/UG	LAK 31ARN	4927WD-A	K2
	TT-377/UG	LAK 31ARE	4927WD-A	K2
	TT-433/UG	LAK 42ARN	6456WD-A	4
	TT-440/UG	LAK 42ARE	6456WD-A	4
	TT-475/UG	LAK 46ARN	6456WD-A	4
TYPING REPERFORATOR	TT-266/UG	LPR9/AWA	3628WD-A	21
	TT-267/UG	LPR9/ARE	3628WD-A	21
	TT-373/UG	LPR51/BWA	3628WD-A	21
			3567WD-S	13
	TT-375/UG	LPR52/BWA	3628WD-A	21
	TT-379/UG	LPR51/BRH	3628WD-A	21
			3567WD-S	13
	TT-380/UG	LPR52/BRH	3628WD-A	21
REPERFORATOR BASE	MT-2234/UG	LRB 6	3590WD-A	4
			3591WD-S	9
	MT-2272/UG	LRB 42	3591WD-S	9
			4447WD-A	7
	MT-2625/UG	LRB 36	3591WD-S	9
			4447WD-A	7
	MT-3369/UG	LRB 51	3591WD-S	9
			4447WD-A	7
PAPER WINDER	RL235/UG	LPW 300	5830WD-A&S	6

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 11 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 LMU17 MOTOR UNIT. LMU11 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

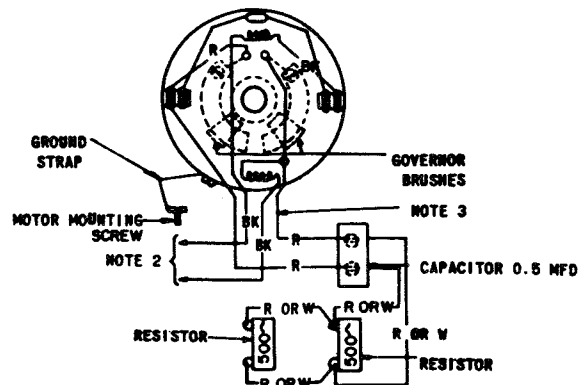
SERIES GOVERNED MOTOR UNITS

NOTE:
REVISION INFORMATION MUST ALSO BE REFLECTED ON THE ISSUE CONTROL RECORD, WHICH IS A PART OF THIS DRAWING.

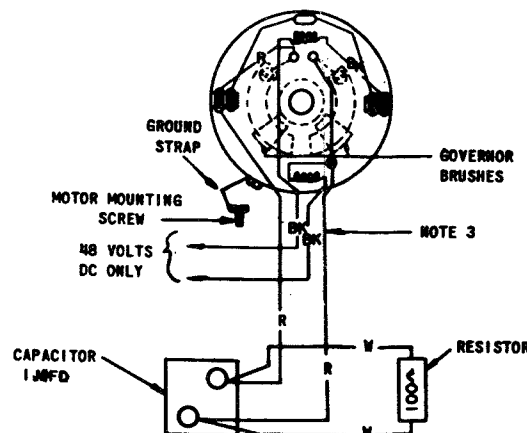
2900WD

REVISIONS

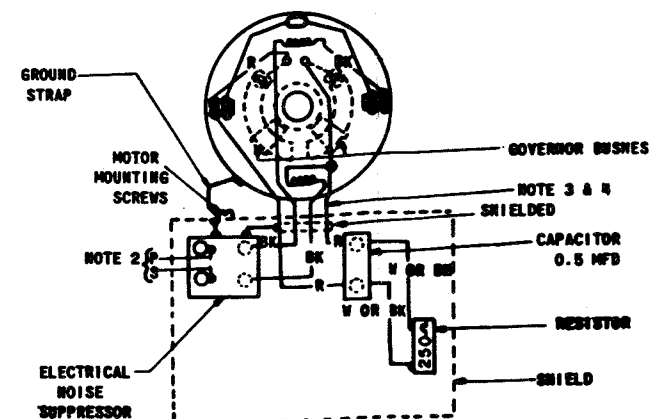
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N	8-27-60	29-13061
P	7-8-60	29-13068
Q	9-13-60	29-13069
R	12-13-60	29-13069
S	6-23-61	70059
T	9-9-61	70059
U	10-18-61	71871
V	11-30-61	71888
W	8-25-62	73088
X	9-20-62	74067
Y	11-22-62	75018
Z	4-18-63	76000
AA	8-16-63	76002
AB	8-16-63	76008
AC	8-28-63	76149
AD	8-22-63	77002
AE	1-12-64	78000
AF	1-24-64	78730-1
AG	4-13-64	78730-2
AH	8-22-64	80000
AI	11-5-64	84384
AJ	3-5-65	84382
AK	8-16-65	84382-1
AL	8-28-65	84382-2
AM	11-9-65	84382-3
AN	11-10-65	87000
AO	2-22-66	90350
AP	4-8-66	90820



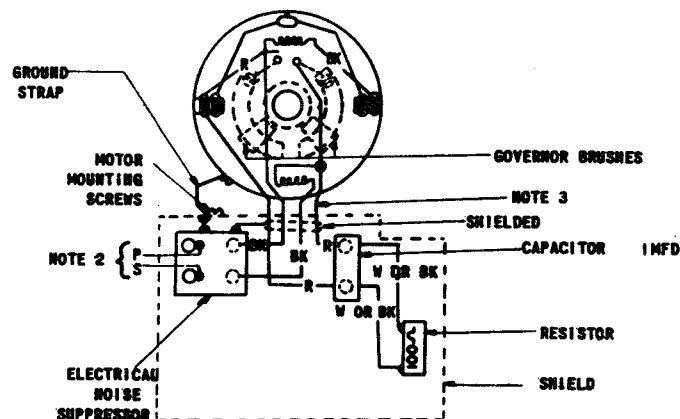
LMU 6,13 (UNIVERSAL)
WITHOUT RADIO FREQUENCY SUPPRESSORS
FOR USE WITH EITHER 115V AC 50-60~OR 115V DC
POWER SUPPLY (NOTE 1B).



LMU 25 (48 VOLTS)
WITHOUT RADIO FREQUENCY SUPPRESSORS
FOR USE ON 48 V.D.C. POWER SUPPLY ONLY.



LMU 28,32,39,41,47 (UNIVERSAL)
WITH RADIO FREQUENCY SUPPRESSORS
FOR USE WITH EITHER 115V AC 50-60~115 V DC
POWER SUPPLY (NOTE 1B)



LMU 29 (48 VOLTS)
WITH RADIO FREQUENCY SUPPRESSORS
FOR USE ON 48 VOLT DC POWER SUPPLY ONLY

SEE FIRST SHEET FOR
REVISIONS LIST OF SHEETS
CONTAINING THIS V.D.

SHEET 2

ACTUAL
WIRING DIAGRAM
FOR
MODEL 28 & 36
MOTOR UNITS

APPROVALS

D AND R	E OF M
---------	--------

E-NUMBER

PROD. NO. 2900WD

DATE 1-28-66

R.D. FILE NO. 1-30.66.166A

DRAWN E.R. CHKD. RER

ENGD. S.M.S. APPD.

TELETYPE
CORPORATION

2900WD

Diagram 15A: 60 MILLIAMPERE OPERATION

Wires connected to 156880 STRAP ASSEMBLY:

- R-3-BR
- R-0-S
- R-1-Y (SPARE)
- R-4-O (SPARE)

Wires connected to 156881 STRAP ASSEMBLY:

- (1)
- (2)
- (3)
- (4)

254M

(NOTE 15A)

Diagram 15B: 20-30 MILLIAMPERE OPERATION. This diagram shows two 254M assemblies connected to a 156880 AND 156881 STRAP ASSEMBLIES. The 156880 assembly has four terminals labeled (1), (2), (3), and (4). Wires connect these terminals to the 254M assemblies: (1) to R-1-Y (SPARE), (2) to R-0-S, (3) to R-4-O (SPARE), and (4) to R-3-BR.

Diagram 15B: 20-30 MILLIAMPERE OPERATION

Wires connected to 156880 AND 156881 STRAP ASSEMBLIES:

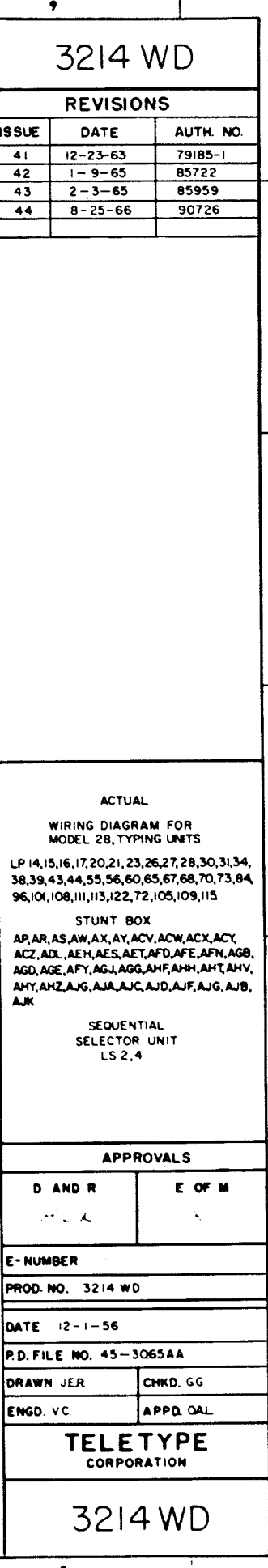
- R-1-Y (SPARE)
- R-0-S
- R-4-O (SPARE)
- R-3-BR

Wires connected to 156881 STRAP ASSEMBLY:

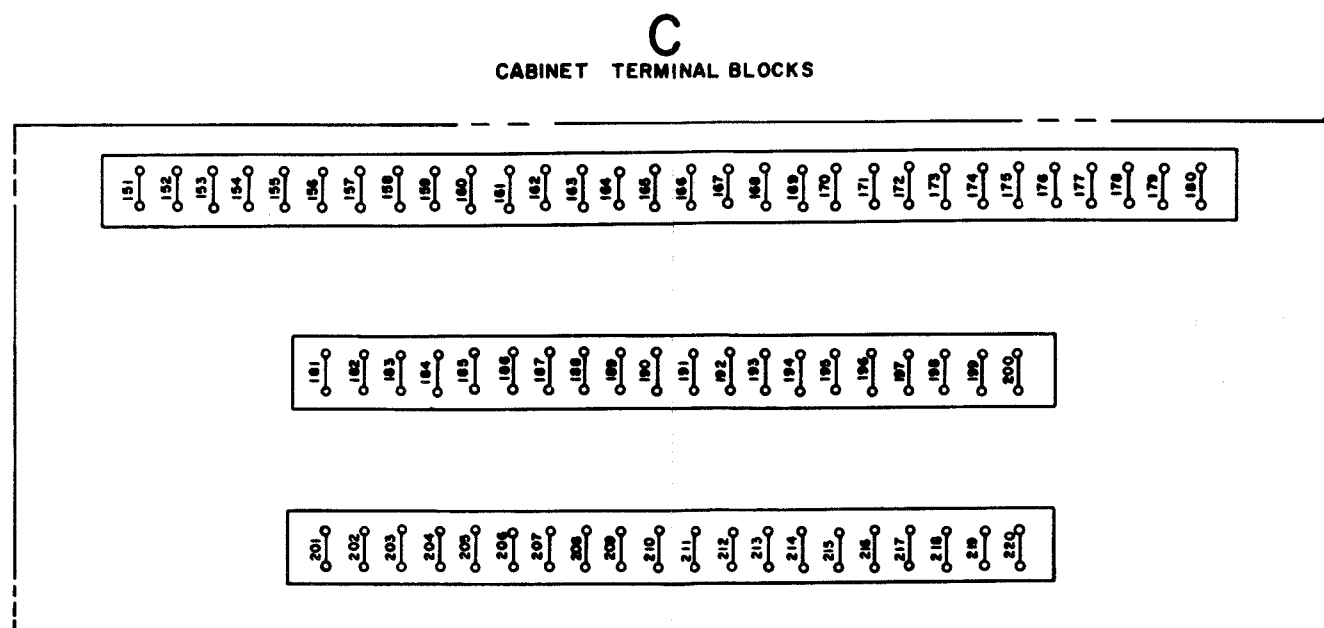
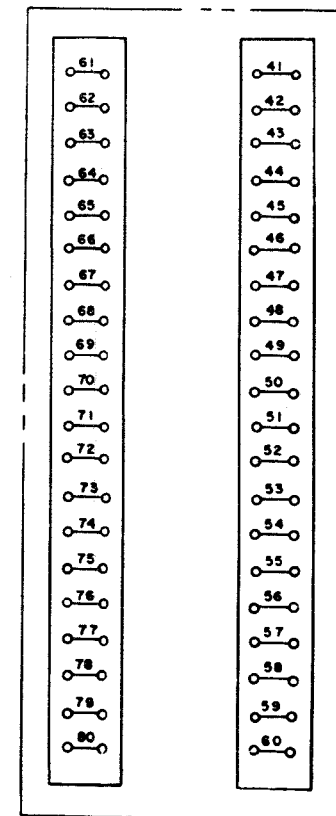
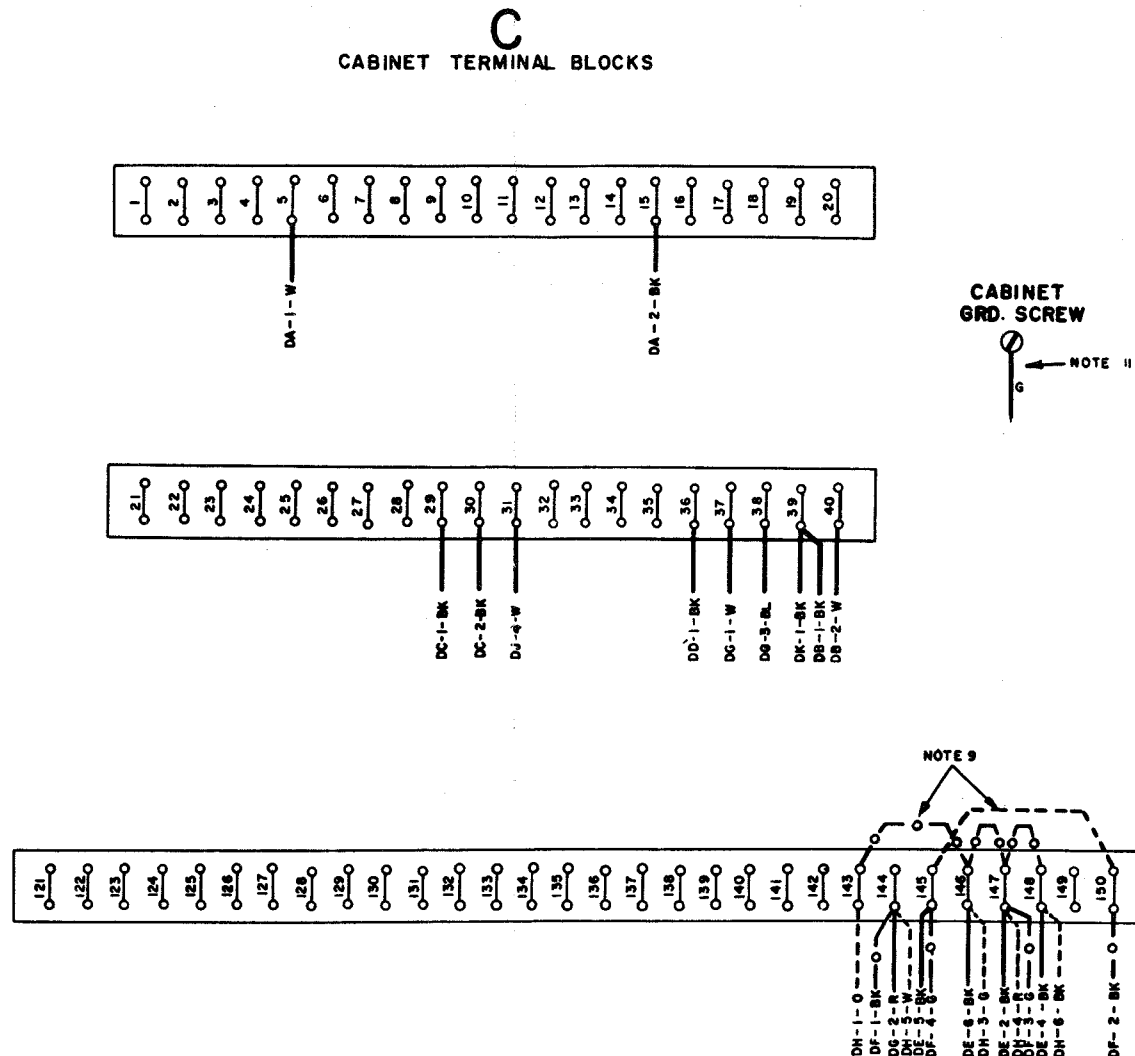
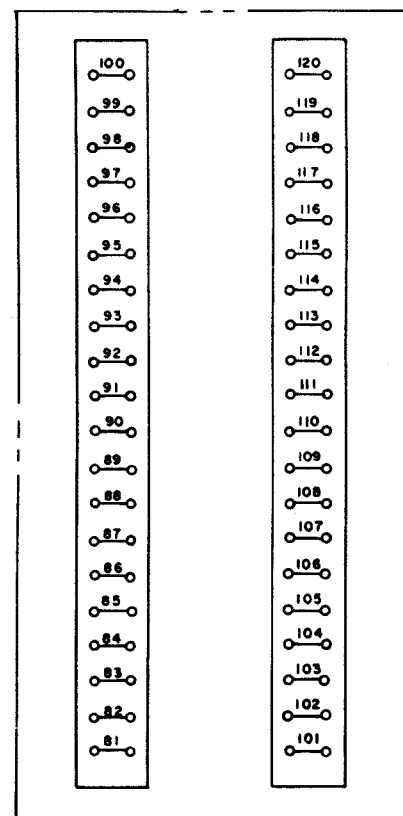
- (1)
- (2)
- (3)
- (4)

254M

(NOTE 15B)



NO	NOTES
1.	WIRING LEGEND:
2.	COLOR CODE: BK-BLACK BL-BLUE P-PURPLE S-SLATE W-WHITE BR-BROWN R-RED G-GREEN Y-YELLOW O-ORANGE
3.	-X- DENOTES SPLICED AND TAPED WIRES.
4.	USE POWER AND SIGNAL LINE INTERFERENCE SUPPRESSORS FOR INSTALLATIONS REQUIRING MINIMUM R.F. INTERFERENCE. FOR OTHER INSTALLATIONS, OMIT SUPPRESSORS AND CONNECT POSITIVE AND NEGATIVE LEADS OF THE INCOMING SIGNAL LINE TO CABINET TERMINALS C5 & C15 RESPECTIVELY. CONNECT THE INCOMING GROUNDED AND UNGROUNDED POWER LEADS TO CABINET TERMINALS C40 & C39 RESPECTIVELY.
5.	USE PROPER COPYLIGHT SYSTEM FOR THE TYPE OF CURRENT USED.
6.	CABINET RECEPTACLES REQUIRED WHEN TAPE WINDER OR TAPE STUFFER IS USED.
7.	OPTIONAL FEATURES, REFER TO APPLICABLE WD.
8.	CABINET POWER MUST BE 115V, 50-60~AC WHEN THIS ACCESSORY IS USED.
9.	----- FOR DC APPLICATION - - - - - FOR AC APPLICATION ————— NORMAL WIRING
10.	ASSOCIATED CABLES: 158267 TRANSFORMER AND CABLE 159329 TAPE WINDER CABLE 154440 CABINET LIGHTS, SWITCH CABLE 159330 RESISTOR PACK CABLE
11.	GROUND WIRE MAY BE ATTACHED TO THE RIGHT 154412 TERMINAL BLOCK ASSEMBLY MOUNTING STUD BY MEANS OF THE TERMINAL BLOCK COVER MOUNTING SCREW AND LOCK WASHER.



3264 WD

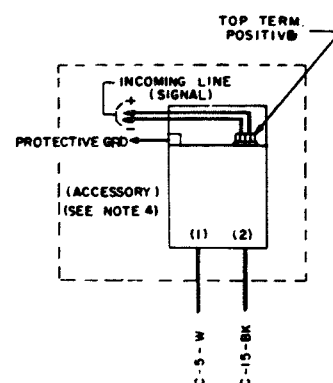
REVISIONS		
ISSUE	DATE	AUTH. NO.
A	7-9-57	TP-2027
B	9-16-57	TP-2399
C	2-24-58	28-8517
D 5	5-27-58	28-9036
E 6	9-17-58	28-9902
F 7	10-7-58	28-9996
8	11-28-58	28-10256
9	4-9-59	28-10928
10	5-22-59	28-11108
11	8-4-59	28-11508
12	9-22-61	71027
13	2-14-62	72426
14	3-23-62	72707
15	4-11-62	73058
16	12-10-62	75290
17	2-19-63	75725
18	3-14-63	75290-1
19	10-3-63	77579
20	10-17-63	78376

SHEET 1 OF 2

ACTUAL WIRING DIAGRAM FOR MODEL 28 AUTOMATIC SEND-RECEIVE CABINETS LAAC200, 201, 202, 205, 209, 210, 213, 214, 219, 235, 236 AC-DC APPLICATION 225, 237	
APPROVALS	
D AND R -----	E OF M -----
E-NUMBER	
PROD. NO. 3264WD	
DATE 4-16-57	
P.D. FILE NO. 24-488AA	
DRAWN R.W.D.	CHKD. R.D.
ENGD. J.M.	APPD. J.A.
TELETYPE CORPORATION	
3264 WD	

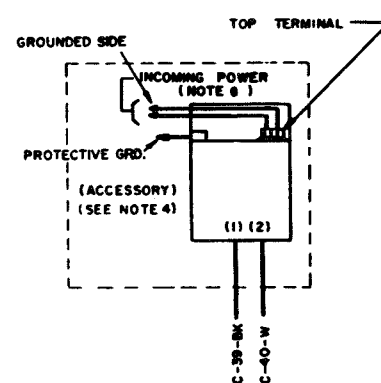
DA

NOISE SUPPRESSOR
(LINE)



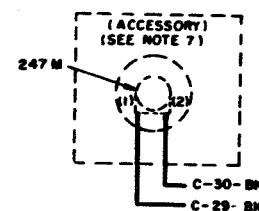
DB

NOISE SUPPRESSOR
(POWER)



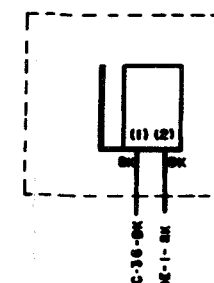
DC

SIGNAL BELL



DD

MARGIN INDICATOR
LAMP SOCKET



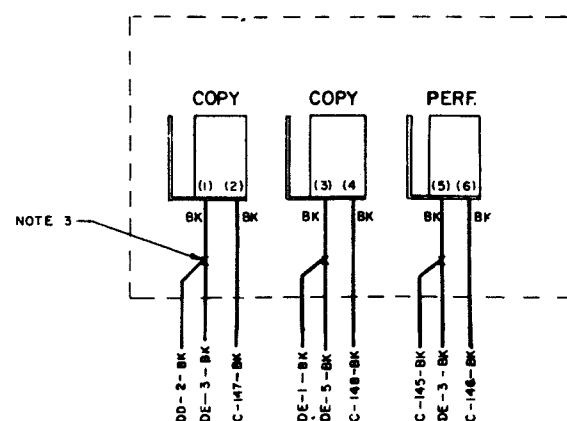
3264 WD

REVISIONS

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2	9-16-57	TP-2399
3	2-24-58	28-8517
4	5-27-58	28-9036
5	9-17-58	28-9802
6	10-7-58	28-9825
7	11-28-58	28-10206
8	4-9-59	28-10829
9	5-22-59	28-11108
10	8-4-59	28-11508
11	9-22-61	71027
12	2-18-62	72426
13	3-23-62	72707
14	4-11-62	73088
15	12-10-62	75290
16	2-19-63	75725
17	3-14-63	75890-1
18	10-3-63	77579
19	10-17-63	78376

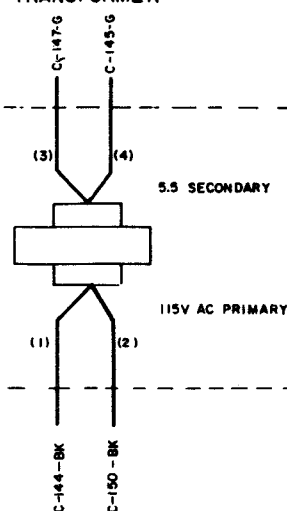
DE

5.5V, 50-60 ~ AC COPYLIGHT SYSTEM



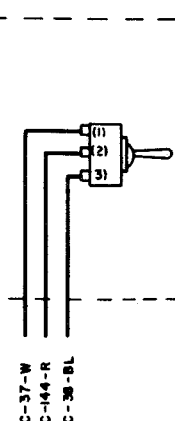
DF

TRANSFORMER



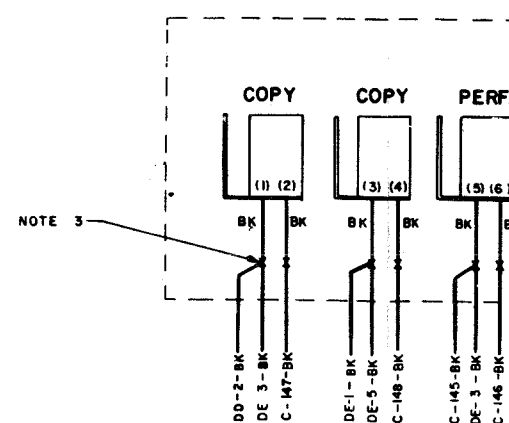
DG

COPYLIGHT SWITCH



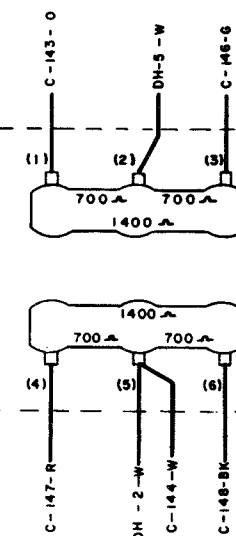
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60V DC COPYLIGHT SYSTEM



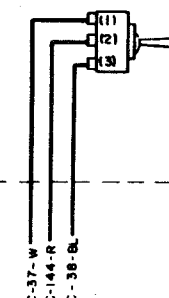
DH

RESISTOR PACKAGE



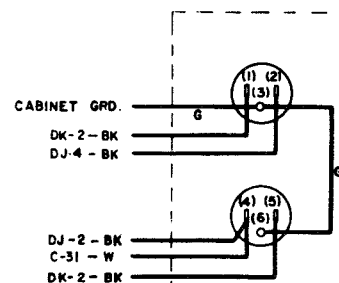
DG

COPYLIGHT SWITCH



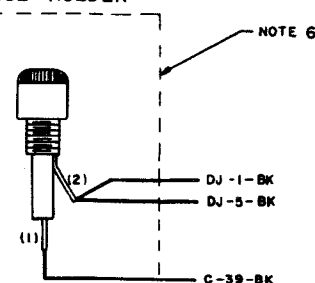
DJ

CABINET RECEPTACLE



DK

FUSE HOLDER



SHEET 2 OF 2

ACTUAL
WIRING DIAGRAM FOR
MODEL 28 AUTOMATIC
SEND-RECEIVE
CABINETS
LAAC200, 201, 202,
205, 209, 210, 213,
214, 219, 235, 236
AC-DC APPLICATION
225, 237

APPROVALS

D AND R	E OF M
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E-NUMBER	
PROD. NO.	3264WD
DATE	4-16-57
P.D. FILE NO.	24-A65AA
DRAWN R.W.D.	CHKD. R.D.
ENGD. J.M.	APPD. J.A.

TELETYPE
CORPORATION

3264 WD

- 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, 50 TO 60 CYCLE A C POWER INPUT ONLY.

4.

CONNECTORS VIEWED FROM SOLDER TERMINAL ENDS.

5.

CIRCUITS SHOWN FOR .060 AMP. NEUTRAL SIGNAL LINE OPERATION. FOR .020 AMP. OPERATION, REMOVE AND ADD CONNECTIONS AS TABULATED BELOW:

SIGNAL LINE CURRENT	CONNECTIONS REMOVED	CONNECTIONS ADDED
.020 AMP	K1-K2, J ① 1-J ② ②	J ① 3-J ① 4

6.

RECTIFIER SHOWN CONTROLLED BY POWER SWITCH.

A. FOR CONTINUOUS OPERATION, REMOVE LEAD L-2-BK FROM TERMINAL E-2 AND CONNECT TO TERMINAL E-1.

B. FOR OPERATION FROM MOTOR CONTROL, REMOVE LEAD L-2-BK FROM TERMINAL E-2 AND CONNECT TO TERMINAL E-3.

7.

LINE SHUNT RELAY SHOWN CONTROLLED BY POWER SWITCH AND SHUNTING LINE RELAY COIL AND KEYBOARD AND TRANSMITTER DISTRIBUTOR SIGNAL GENERATOR.

A. IF KEYBOARD SHUNTING IS NOT DESIRED, OR WHEN SIGNAL LINE BREAK SWITCH IS PRESENT, REMOVE THE BLACK STRAP CONNECTED BETWEEN TERMINALS C-10 AND C-13 AND CONNECT TERMINALS C-9 AND C-13.

B. FOR DIRECT CONTROL OF THE LINE SHUNT RELAY FROM THE POWER SWITCH, REMOVE STRAP BETWEEN TERMINALS C-34 AND C-37 AND CONNECT TERMINALS C-34 AND C-35. TERMINAL C-13 MAY THEN BE CONNECTED TO EITHER TERMINALS C-9, C-10, C-11 OR C-15 TO OBTAIN THE DESIRED SHUNTING OF THE SIGNAL LINE CIRCUIT.

8.

THE SPARE LEADS FROM THE KEYBOARD AND TRANSMITTER DISTRIBUTOR UNITS CONNECTORS ARE TERMINATED IN THE RIGHT END OF THE ELECTRICAL SERVICE UNIT. THE SPARE LEADS FROM THE TYPING UNIT CONNECTORS ARE TERMINATED IN THE LEFT END OF THE ELECTRICAL SERVICE UNIT.

9.

ADD STRAP BETWEEN C-10 AND C-11, IF SIGNAL LINE BREAK SWITCH IS NOT USED.

10.

SPARE LEADS FROM F-18 AND U-18 ARE RESERVED FOR POLAR OPERATION OF KEYBOARD AND TRANSMITTER DISTRIBUTOR SIGNAL GENERATORS.

11.

TERMINALS C-143 TO C-148 ARE RESERVED FOR CABINET LAMP OPERATION.

12.

TERMINALS C1-C3 RESERVED FOR CUSTOMER USE.

13.

TERMINALS C-121 - C-122 RESERVED FOR PERFORATOR LOW-TAPE SWITCH.

14.

CONTACTS SHOWN IN UNOPERATED OR DE-ENERGIZED POSITION.

15.

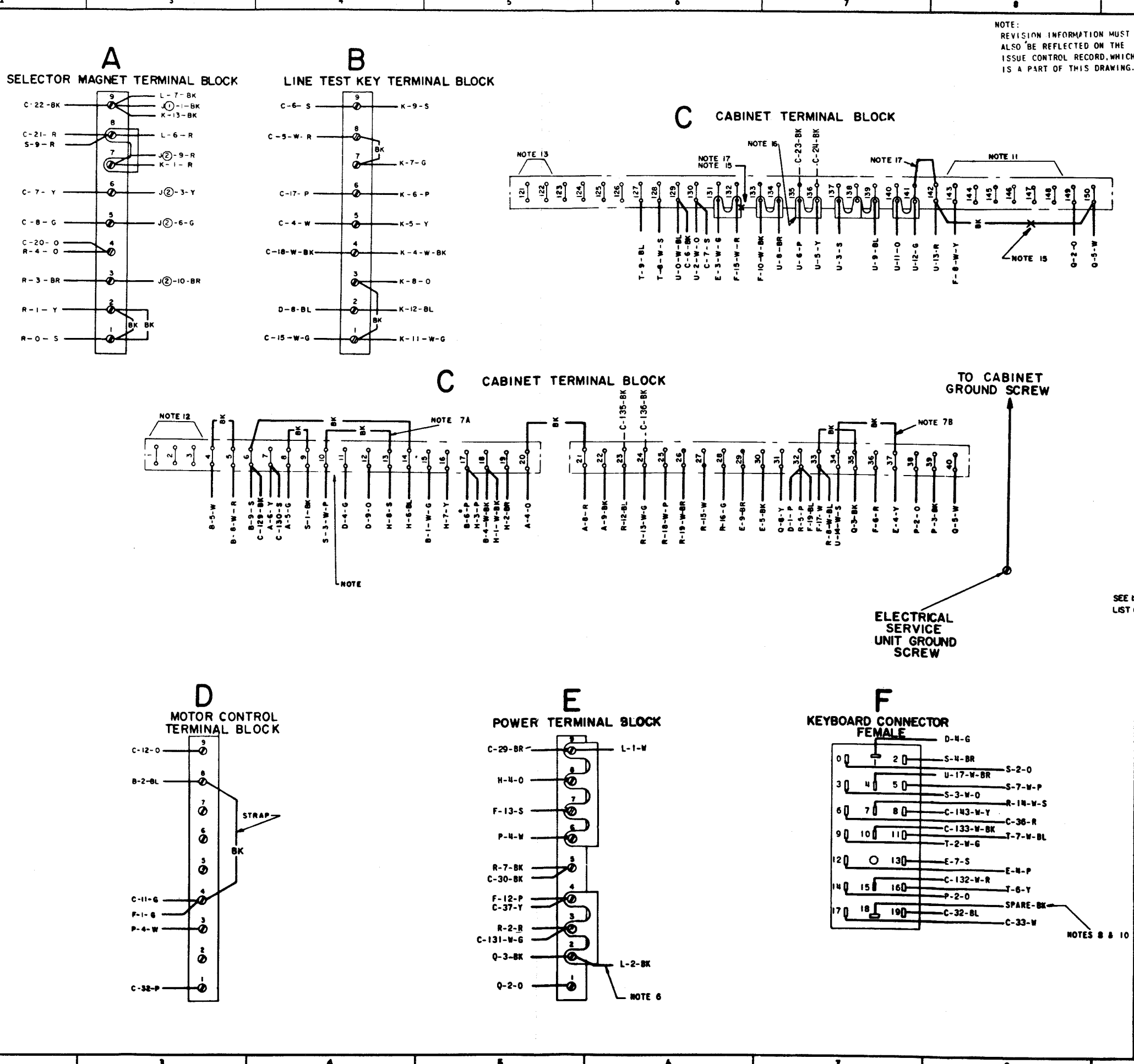
WHEN LBXD IS USED IN PLACE OF LXD, MAKE THE FOLLOWING CHANGES:
OMIT CONNECTIONS ADD CONNECTIONS
C-142 TO C-150
C-131 TO C-132

16.

WHEN LXD5 IS USED, REMOVE THE STRAP BETWEEN TERMINALS C-135 - C-136. ADD TWO STRAPS, ONE BETWEEN TERMINALS C-23 - C-135 AND ONE BETWEEN C-24 -C-136

17.

WHEN THE LXD 11 IS USED DO NOT INSTALL STRAPS BETWEEN TERMINALS C141 AND C142 OR C131 AND C132. THE INTERNAL CLUTCH MAGNET INPUT SHOULD BE CONNECTED TO TER MINALS C132 & C141. RESISTANCE PER COIL 210 OHMS.



3292 WD

REVISIONS

ISSUE	DATE	AUTH. NO.
14	3-28-62	69762-1
15	2-11-64	79910
16	8-28-64	82637
17	10-26-64	83790
18	2-26-65	86062
19	4-7-66	90222

SEE ISSUE CONTROL RECORD FOR COMPLETE LIST OF SHEETS COMPRISING THIS WD

SHEET 1

ACTUAL WIRING DIAGRAM FOR MODEL 28 ELECTRICAL SERVICE UNIT ASR - GP - OPT. IAC LESU13

APPROVALS

D. AND R	E. OF M
-----	-----

E-NUMBER

PROD. NO. 3292WD

DATE 10-10-56

P.D. FILE NO. 27-A.65.AA

DRAWN E.K.S. CHKD. R.D.

ENBD. H.S.P. APPD.

TELETYPE CORPORATION

3292WD

SEE SHEET 1 FOR NOTES.

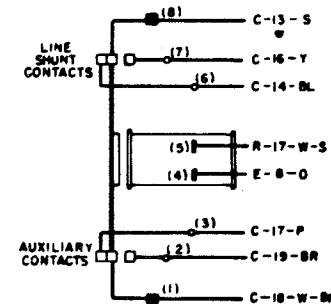
NOTE:
REVISION INFORMATION MUST
ALSO BE REFLECTED ON THE
ISSUE CONTROL RECORD WHICH
IS A PART OF THIS DRAWING.

3292WD

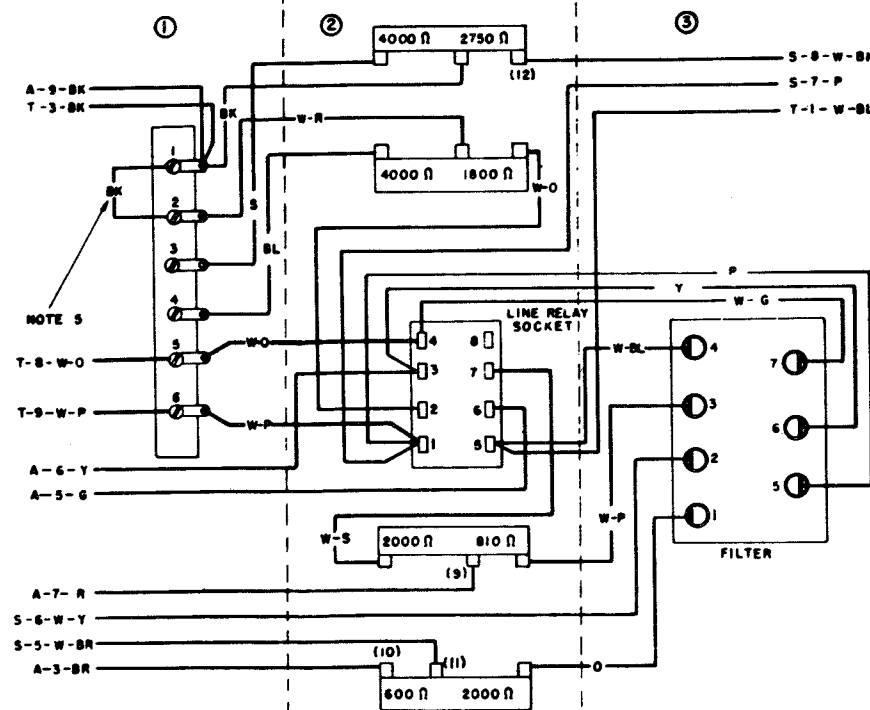
REVISIONS

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19	4-7-66	90222

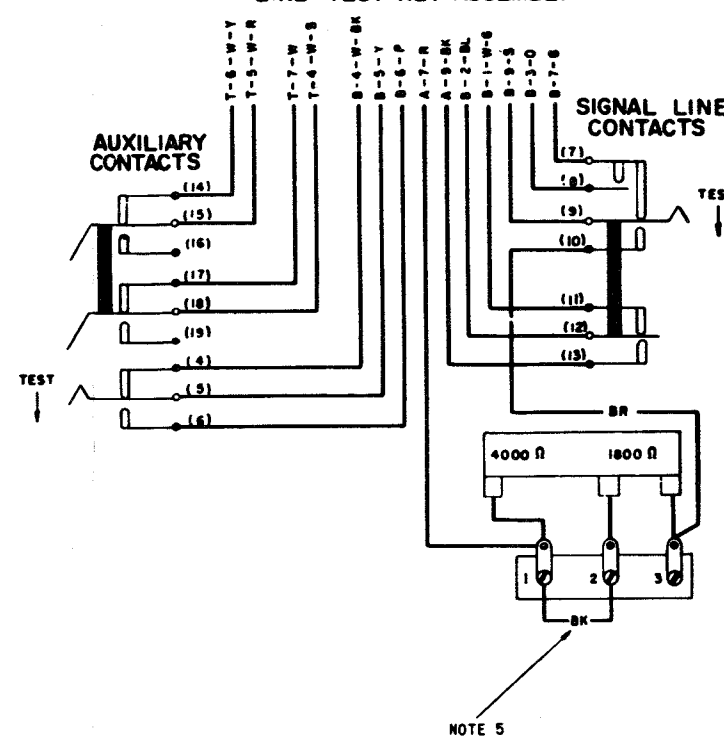
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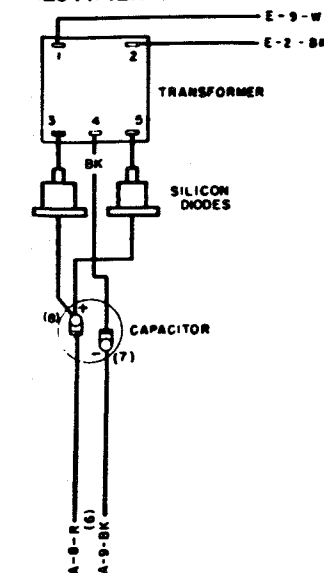
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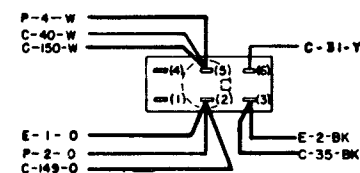
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LINE TEST KEY ASSEMBLY



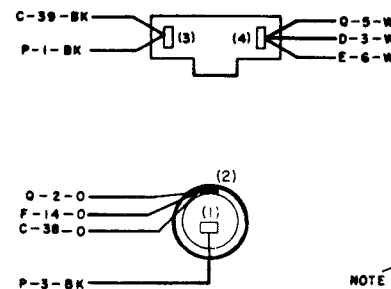
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RECTIFIER ASSEMBLY



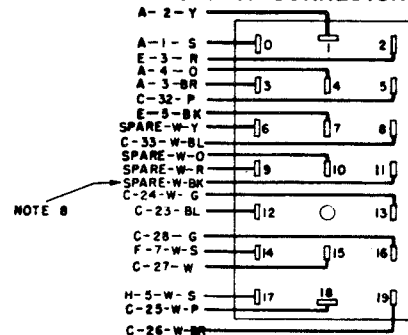
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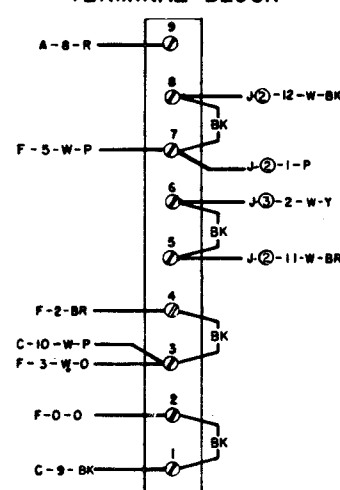
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CONVENIENCE
RECEPTACLE



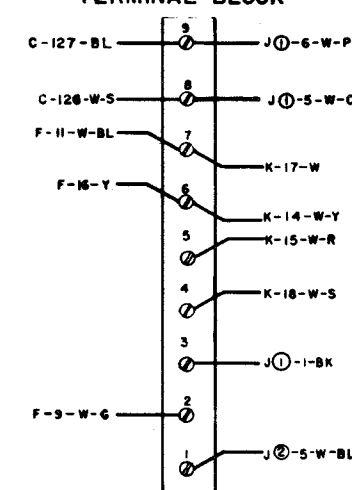
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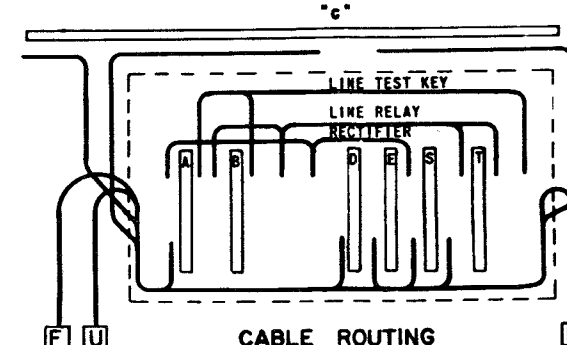
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TERMINAL BLOCK



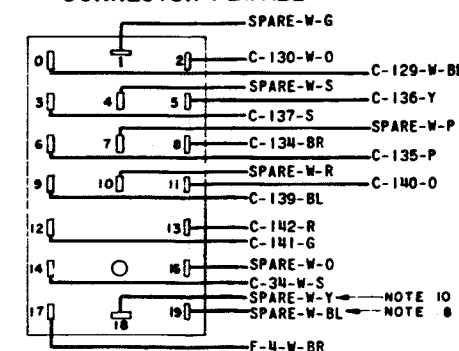
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SLOW RELEASE TEST KEY
TERMINAL BLOCK



CABLE ROUTING
(BOTTOM VIEW)



U
TRANSMITTER DISTRIBUTOR
CONNECTOR FEMALE



SEE ISSUE CONTROL RECORD FOR COMPLETE
LIST OF SHEETS COMPRISING THIS WD
SHEET 2

ACTUAL
WIRING DIAGRAM
FOR
MODEL 28
ELECTRICAL
SERVICE UNIT
ASR - GP - OPT. IAC
LESU13

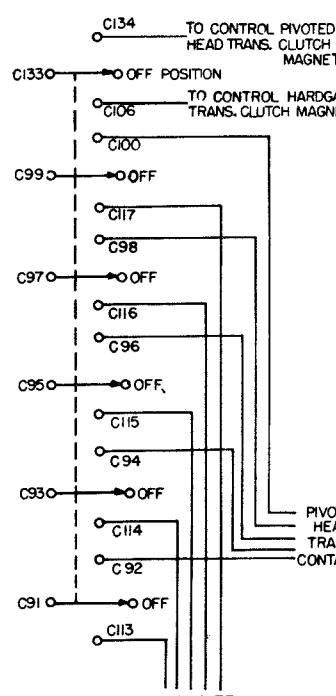
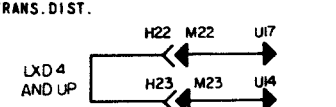
APPROVALS

D AND R	E OF M
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E-NUMBER	
PROD. NO.	3292WD
DATE	10-10-56
P.D. FILE NO.	27-A.65.AA
DRAWN E.K.S.	CHKD. R.D.
ENGD. H.S.P.	APPD.

TELETYPE
CORPORATION

3292 WD

NO.	NOTES	NO.	NOTES	NO.	NOTES
1.	FOR ACTUAL WIRING DIAGRAMS OF INDIVIDUAL UNITS SEE: WD NO. UNITS DIRECTLY OPERABLE WITH LESU 3264WD CABINETS-LAAC209,210 3292WD ELECTRICAL SERVICE UNIT LESU13 3302WD KEYBOARDS-LAK4 2900WD MOTOR UNITS-LMU12 OR 14. 2864WD PAGE TYPING UNITS-LP 3300WD TRANSMITTER DISTRIBUTOR-LXD3 3288WD TRANSMITTER DISTRIBUTOR-LAXD 3 & LCXD1 3251WD TRANSMITTER DISTRIBUTOR-LBXDS 3452WD TRANSMITTER DISTRIBUTOR BASE-LCXB7	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.	21.	CONTINUED LCXD AS PER DIAGRAM BELOW LEVER KEY SWITCH 6 NORMAL OPEN CONTACTS ON EACH SIDE 
2.	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 ASSEMBLY 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) ◀ Z TRANSMITTER DISTRIBUTOR CONN (LBXD).	11.	A. LINE SHUNT RELAY SHOWN CONTROLLED BY POWER SWITCH AND SHOWN SHUNTING LINE RELAY COIL, TRANS. DIST. SIG. GENERATOR AND KEYBOARD SIG. GEN. 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 CONN. MARKED (X) AT CABINET TERMINALS C34, C35, C37. CUSTOMER MAY THEN SELECT PORTION OF SIG. LINE CKT. TO BE SHUNTED BY CONNECTING TERM. C13 TO EITHER C9, C10, C11, C15.	22.	WHEN A SEPARATE TIGHT SWITCH IS USED IN LBXD THIS SWITCH BECOMES A MANUAL ON-OFF SWITCH ONLY.
3.	DOT DASH(---) LINES INDICATE FILTERING, SHIELDING AND SUPPRESSION NETWORKS.	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.	23.	WHEN LXD5 IS USED, REMOVE THE STRAP BETWEEN TERMINALS C135-C136. ADD TWO 176162 STRAPS, ONE BETWEEN TERMINALS C23-C135 AND ONE BETWEEN C24-C136.
4.	ALL APPARATUS IS SHOWN IN UNOPERATED OR DE-ENERGIZED POSITION.	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.	24.	TO CONTROL PIVOTED READER FROM ITS TAPE-OUT CONTACTS, REMOVE THE STRAP FROM TERMINALS I37 TO I41 AND PROVIDE SUIT-CIRCUITRY. THE TAPE OUT C NTACTS MAY NOT BE USED DIRECTLY SINCE THEY OPEN MOMENTARILY.
5.	A. RESISTANCE IN OHMS (Ω) B. INDUCTANCE VALUES IN MICROHENRIES(MH) C CAPACITANCE VALUES IN MICROFARADS(MF)	14.	WHEN PAPER FEED OUT SWITCH IS NOT USED DISCONNECT MOTOR LEAD FROM AG3 AND CONNECT TO AG1.	25.	U14 IS CONNECTED TO U17 THROUGH THE TRANS. DIST. 
6.	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.	15.	WHEN SIGNAL LINE BREAK SWITCH IS NOT USED IN KEYBOARD ADD DASHED (---) CONNECTION AT CABINET TERMINAL BLOCK BETWEEN C10 AND C11.	26.	CUSTOMER MUST SUPPLY THIS SWITCH WHEN EXTERNAL SWITCHING IS NOT USED.
7.	USE POWER & SIGNAL LINE SUPPRESSOR AND SYNC. OR GOV.-FILT. MOTOR FOR INSTALLATIONS REQUIRING MINIMUM R.F. INTER-FERENCE. FOR OTHER INSTALLATIONS OMIT SUPPRESSORS AND CONNECT INPUTS AND GOV. MOTOR DIRECTLY TO TERMINALS SHOWN.	16.	IN ALL TRANS. DIST. U14 MUST BE CONNECTED TO U17 EXCEPT FOR LXD4 AND UP. (SEE NOTE 25)	27.	CUSTOMER MUST SUPPLY THESE STRAPS WHEN EXTERNAL SWITCHING IS NOT USED.
8.	USE SYNCHRONOUS MOTOR ON REGULATED 60W (± 1%) AC POWER ONLY. GOVERNED MOTORS AND OTHER POWER CIRCUITS OPERABLE ON 50 TO 60~ UNREGULATED AC.	17.	IN ALL KEYBOARDS F4 MUST BE CONNECTED TO F7. IN ALL TYPING UNITS R14 MUST BE CONNECTED TO R17.	28.	WHEN THE LXD11 IS USED DO NOT INSTALL STRAPS BETWEEN TERMINAL C141 AND C142, OR C131 AND C132. THE INTERNAL CLUTCH MAGNET INPUT SHOULD BE CONNECTED TO TERMINALS C132 AND C141. RESISTANCE PER COIL 210 OHMS.
9.	RECTIFIER SHOWN CONTROLLED BY POWER SWITCH. FOR CONTINUOUS OPERATION, MOVE RECTIFIER LEAD L2 FROM E2 TO E1.	18.	SPARE LEADS FROM U18 AND F18 ARE RESERVED FOR POLAR OPERATION OF SIGNAL GENERATOR.		
		19.	CIRCUIT SHOWN FOR 115V DC POWER INPUT TO TRANS. DIST. CLUTCH MAGNETS. FOR 48V DC POWER INPUT MOVE WIRE CONNECTIONS AS FOLLOWS: UNIT WIRE INVOLVED MOVE CONN. FROM TO LAXD C81 TO V6 V6 V5 LCXD C142 TO V3 V3 V2 LBXD A13 TO V6 V6 V5 A6 TO V3 V3 V2 POWER SUPPLY MUST DELIVER 300MA @ 48V DC OR 200MA @ 115V DC.		
		20.	USE APPROPRIATELY LABELED LXD, LAXD, LBXD OR LCXD CIRCUITRY AND MAKE CONN. AS SHOWN.		
		21.	CUSTOMER MUST SUPPLY EXTERNAL SWITCHING AS FOLLOWS: LXD - NONE LAXD - BETWEEN C133 AND C134 TO CONTROL TRANS. CLUTCH MAGNET LBXD - NONE (CONTINUED)		

3294WD

REVISIONS

ISSUE	DATE	AUTH. NO.
Q	3-30-60	28-12924
R	4-21-60	28-12936
S18	10-12-60	28-14077
T19	4-15-61	68761-33
U20	4-26-61	69589
21	3-28-62	69768-33
22	11-26-63	78875
23	2-11-64	79910
24	8-28-64	82637

SHEET 1 OF 6

SCHEMATIC
WIRING DIAGRAM
FOR
MODEL 28
ASR GP. OPT. 1 AC
WITH FACILITIES
PROVIDED BY
ELECT. SERVICE UNIT
LESU13
AND ASSOCIATED
UNITS

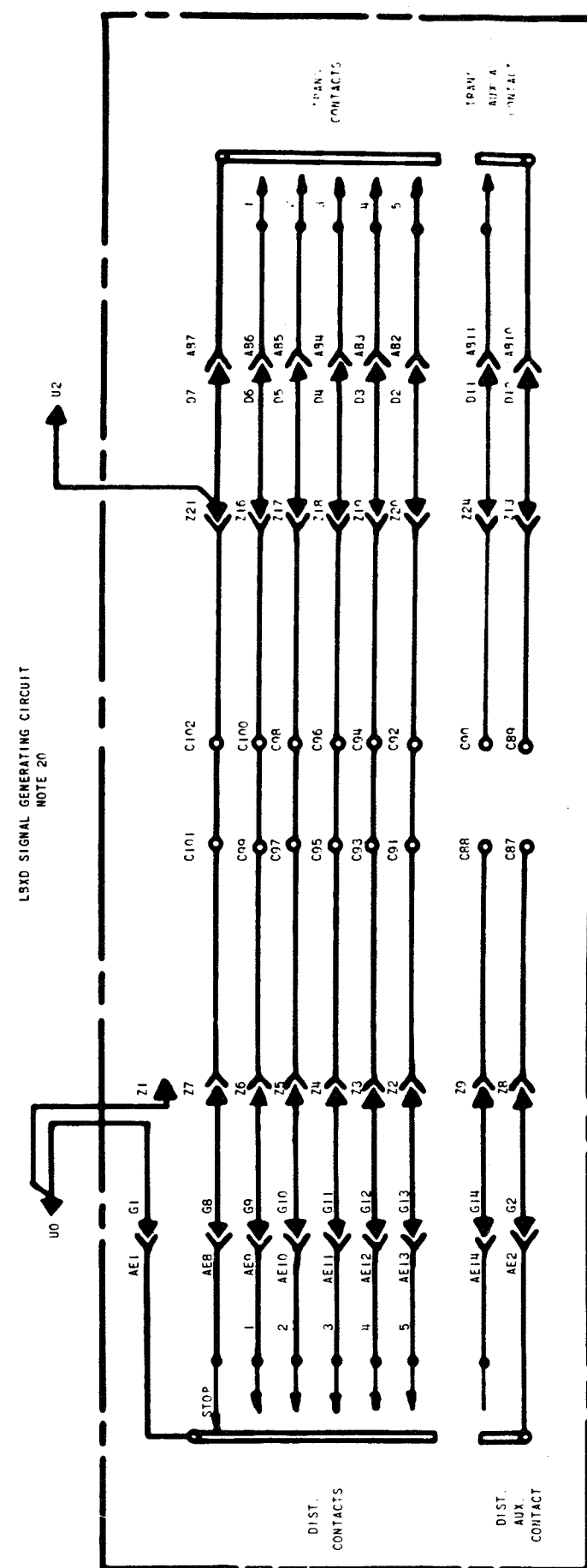
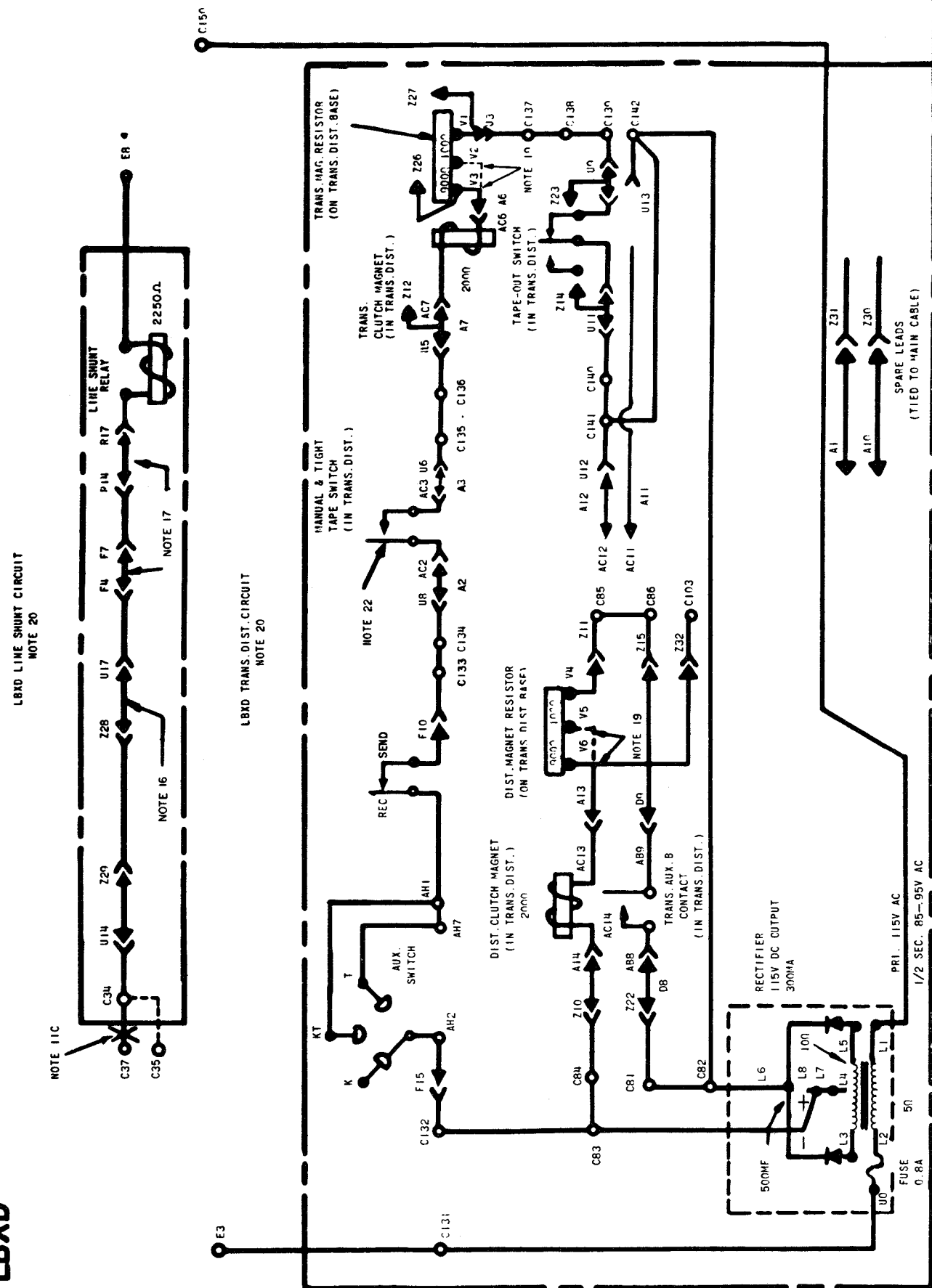
APPROVALS

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E-NUMBER	
PROD. NO. 3294WD	
DATE 11-17-59	
P.D. FILE NO. 27 AF544	
DRAWN A C	CHKD.
ENGD.	APPD.

TELETYPE
CORPORATION

3294WD

LBXD



3294 WD		
REVISIONS		
ISSUE	DATE	AUTH NO
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100	10-20-67	10-20-67

SHEET 2 OF 6

SCHEMATIC
WIRING DIAGRAM
FOR
MODEL 28
AGE GP OPT 1 AC
WITH FACILITIES
PROVIDED BY
ELECT SERVICE UNIT
LESUIS
AND ASSOCIATED
UNITS

APPROVALS

D AND R

E OF M

E - NUMBER

PROD. NO. 3294WD

DATE 11-17-50

P.D. FILE NO. 27-465AA

DRAWN A C

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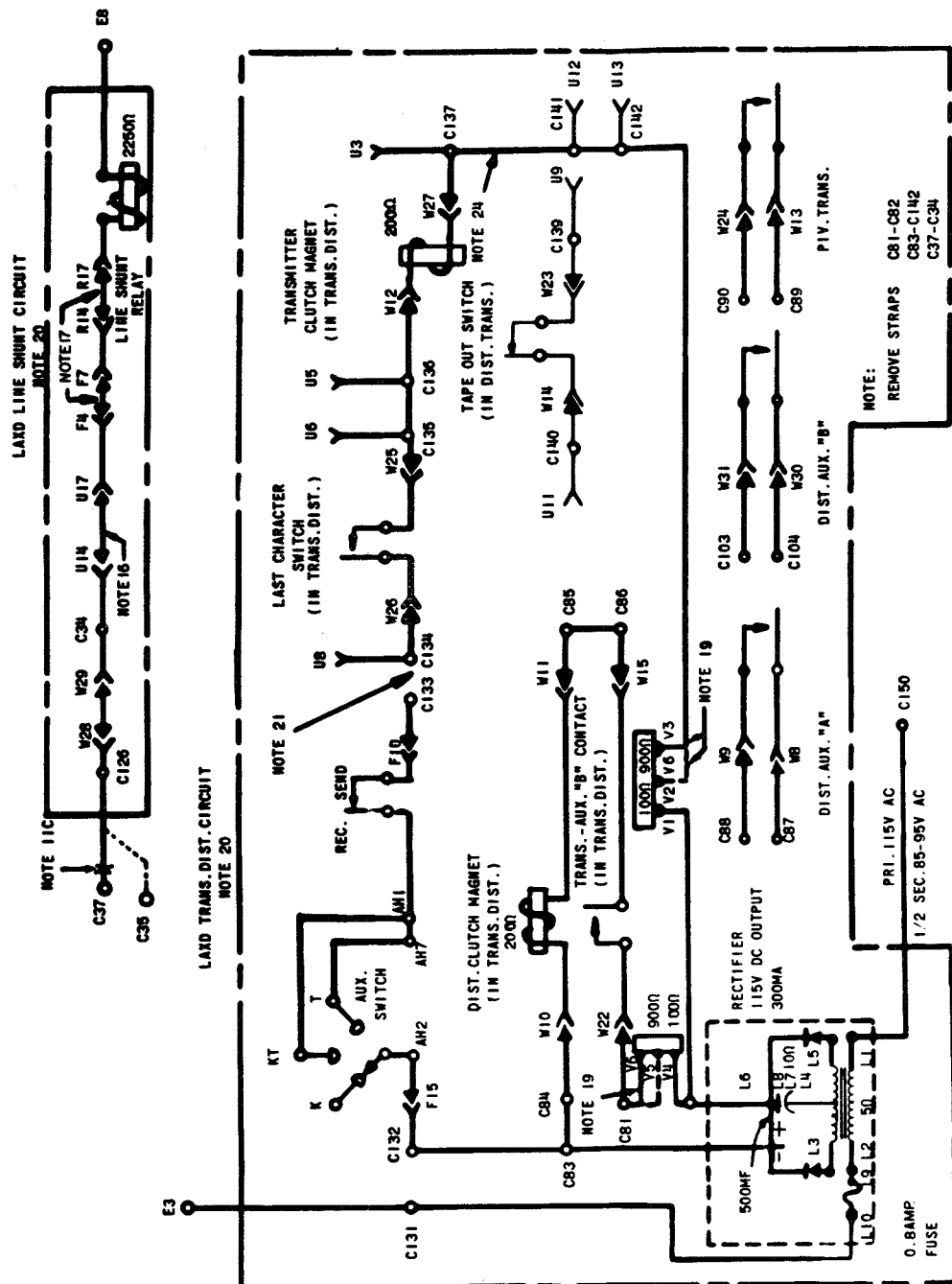
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**TELETYPE
CORPORATION**

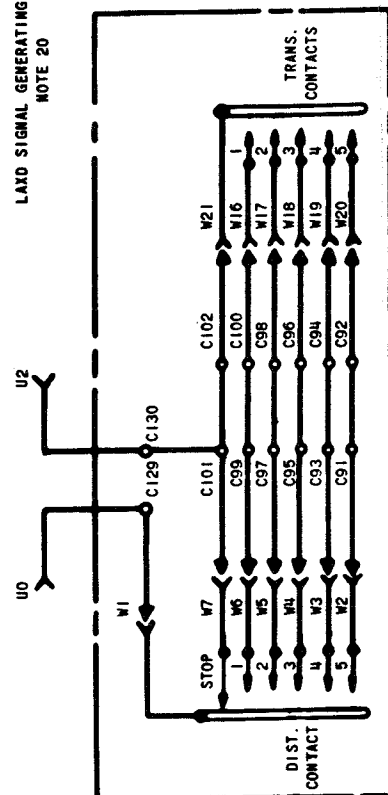
3294WD

LAXD

SEE SHEET 1 FOR NOTES

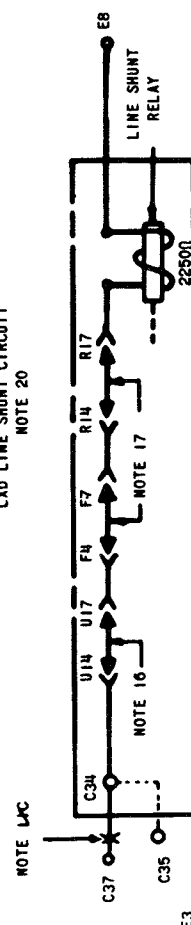


LAXD SIGNAL GENERATING CIRCUIT
NOTE 20

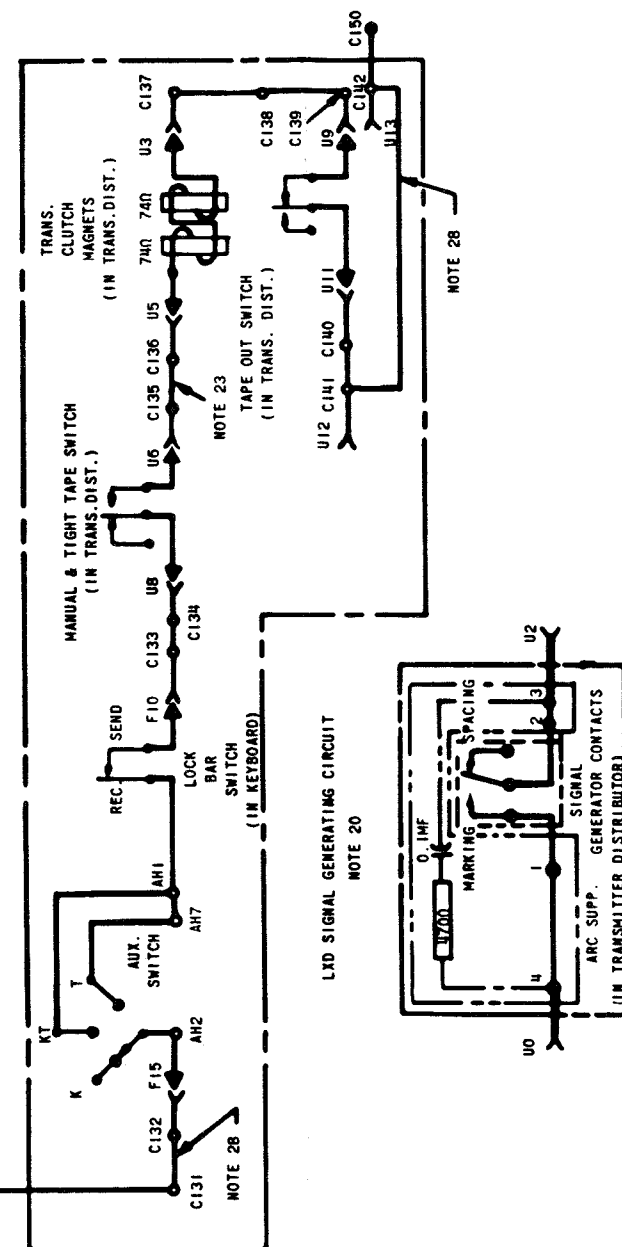


LXD

LXD LINE SHUNT CIRCUIT
NOTE 20



LXD TRANS. DIST. CIRCUIT
NOTE 20



3294 WD

REVISIONS

ISSUE	DATE	AUTH. NO.
Q	3-30-60	28-12924
R	4-21-60	28-12936
S18	10-12-60	28-14077
T19	4-5-61	68761-33
W20		
21	3-28-62	69768-10
22	11-26-63	78875
23	2-11-64	79910
24	8-28-64	82637

SHEET 4 OF 6

SCHEMATIC
WIRING DIAGRAM
FOR
MODEL 28
ASR-GP-OPT I AC
WITH FACILITIES
PROVIDED BY
ELECT. SERVICE UNIT
LESU13
AND ASSOCIATED
UNITS

APPROVALS

D AND R

E OF M

E-NUMBER

PROD. NO. 3294WD

DATE 11-17-59

P.D. FILE NO. 27-A65AA

DRAWN A.C.

CHKD.

ENGD.

APPD.

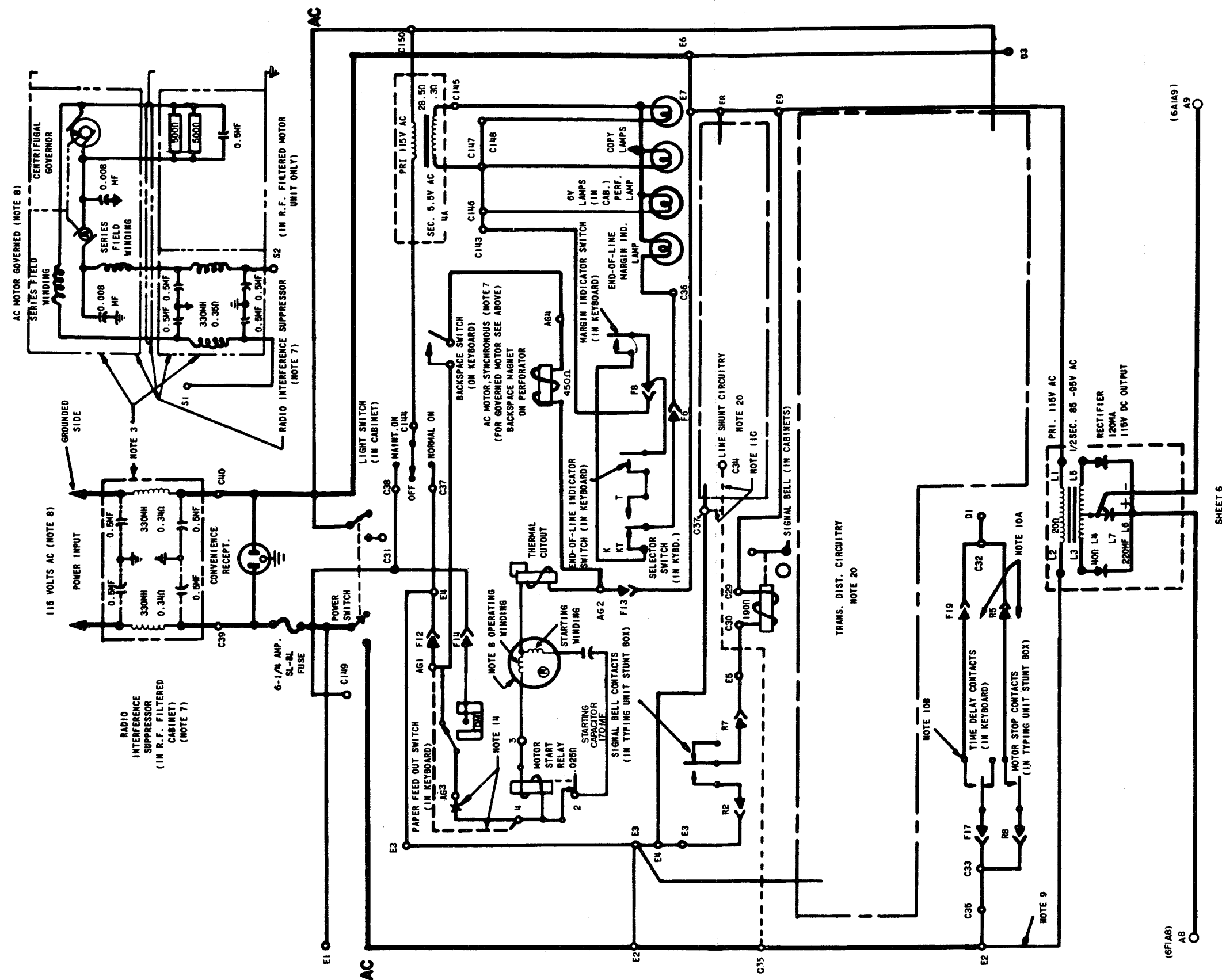
TELETYPE
CORPORATION

3294WD

3294WD

REVISIONS

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719	4- -61	68761-33
W20		
21	3-28-62	69768-10
22	11-26-63	78875
23	2-11-64	79910
24	8-28-64	82637



SHEET 6

SHEET 5 OF 6

SCHEMATIC
WIRING DIAGRAM
FOR
MODEL 28
ASR-GP-OPT 1 AC
WITH FACILITIES
PROVIDED BY
ELECT. SERVICE UNIT
LESU13
AND ASSOCIATED
UNITS

APPROVALS

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E-NUMBER

PROD. NO. 3294WD

DATE 11-17-59

R.D. FILE NO. 27-A65AA

DRAWN A.C. CHKD.

ENGD. APPD.

TELETYPE
CORPORATION

3294WD

**SCHEMATIC
WIRING DIAGRAM
FOR
MODEL 28
ASR-GP-OPT I AC
WITH FACILITIES
PROVIDED BY
ELECT. SERVICE UNIT
LESU13
AND ASSOCIATED
UNITS**

APPROVALS

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PROD. NO. 3294WD

DATE 11-17-59

R.D. FILE NO. 27-A65AA

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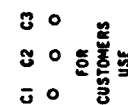
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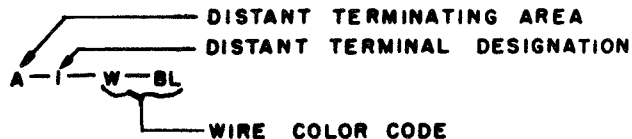
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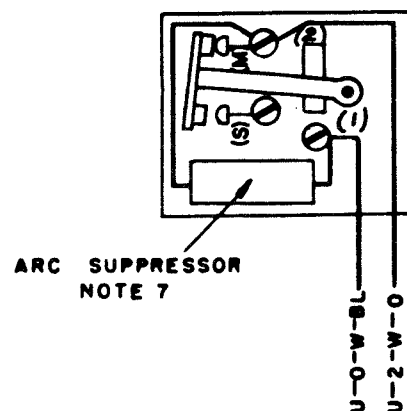
**TELETYPE
CORPORATION**

3294 WD

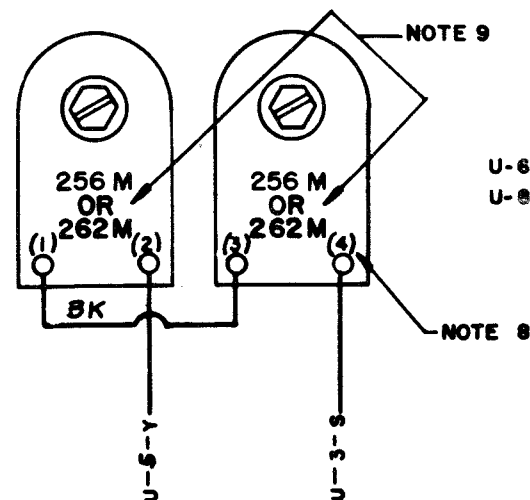


NO	NOTES																				
1.	WIRING LEGEND: 																				
2.	COLOR CODE: <table border="0"> <tr> <td>BK-BLACK</td><td>W-BK-WHITE-BLACK</td></tr> <tr> <td>BR-BROWN</td><td>W-BR-WHITE-BROWN</td></tr> <tr> <td>R-RED</td><td>W-R-WHITE-RED</td></tr> <tr> <td>O-ORANGE</td><td>W-O-WHITE-ORANGE</td></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>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																				
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																				
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P-PURPLE	W-P-WHITE-PURPLE																				
W-WHITE	W-S-WHITE-SLATE																				
S-SLATE																					
4.	CONNECTOR VIEWED FROM SOLDER TERMINAL ENDS.																				
5.	ALL CONTACTS SHOWN IN UNOPERATED POSITION.																				
6.	SPARE TERMINAL OF U-18 RESERVED FOR POLAR OPERATION OF TRANSMITTER DISTRIBUTOR 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.	A. 115V $\pm$ 10% AC POWER TO BE USED ON CLUTCH TRIP MAGNET ASSEMBLY CIRCUIT. (256M COIL ASSEMBLIES, 74 EACH) FOR DC OPERATION ADD SUFFICIENT EXTERNAL RESISTANCE TO LIMIT CURRENT TO 100 M.A. B. LXD27 EQUIPPED WITH 262M COIL ASSEMBLIES (RESISTANCE, 210 EACH) THE OPERATING CURRENT MUST BE 50 MA, 115VDC WIRED AS SHOWN. FOR AC OPERATION CONNECT IN PARALLEL.																				
10.	GROUND STRAP 117366 OF LCXB SHOULD BE SECURED TO RIGHT REAR MTG. STUD OF LAAC RAIL (SEE SPEC. 5941S).																				

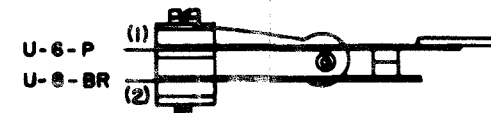
A
TRANSMITTER DISTRIBUTOR
SIGNAL GENERATOR



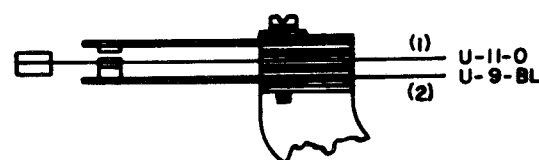
B
TRANSMITTER DISTRIBUTOR
CLUTCH MAGNETS



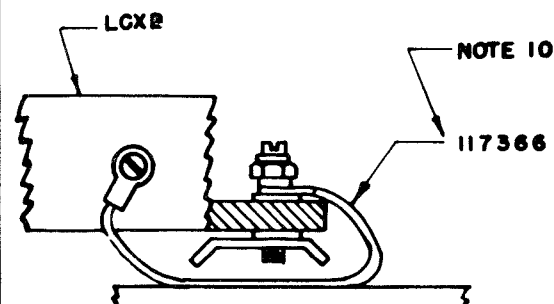
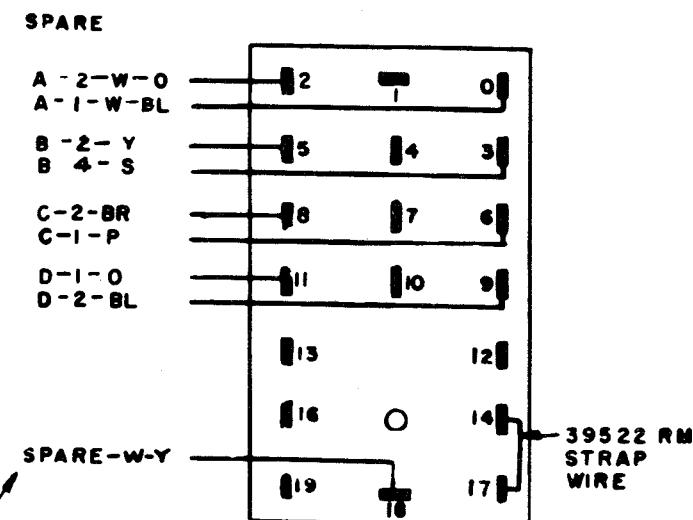
C
CONTROL LEVER
CONTACT ASSEMBLY



D
TAPE — OUT
CONTACT ASSEMBLY
(TAPE IN UNIT)



U
TRANSMITTER DISTRIBUTOR
CONNECTOR MALE



3300WD

ISSUE	DATE	AUTH NO
A	8-22-57	TP-2263
B	3-25-58	28-8767
C	6-25-58	28-9401
D	1-6-59	28-10308
E	2-25-59	28-10771
F	7-29-60	28-13548
G	10-17-63	78376

ACTUAL
WIRING DIAGRAM
MODEL 28
TRANSMITTER
DISTRIBUTOR
LXD 3,27
ASR-GP
LESU 13, 14, 15, 16, 28,
III

APPROVALS

D AND R E OF M

E-NUMBER

PROD. NO.

DATE 5-13-57

PD. FILE NO 2-58.65AA

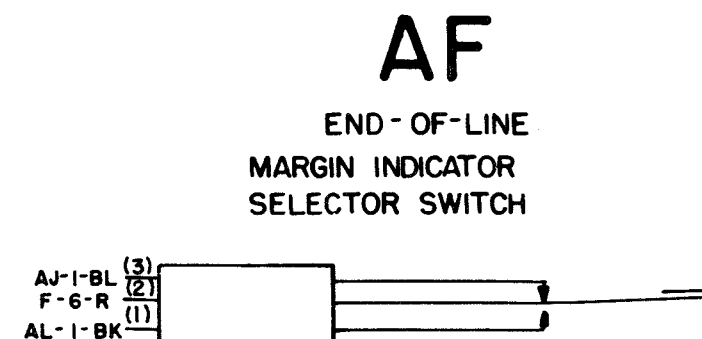
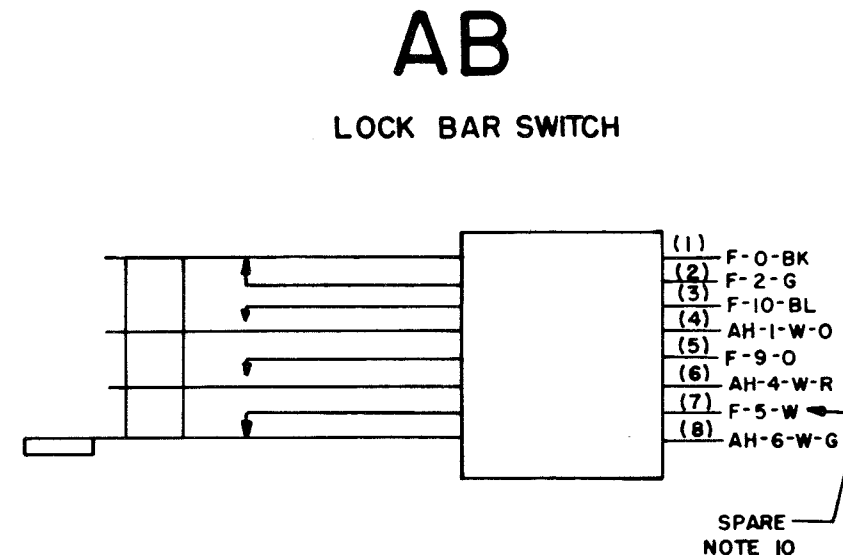
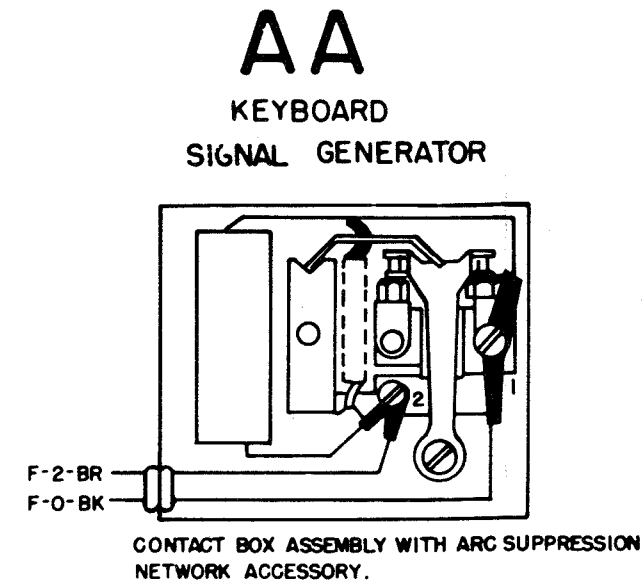
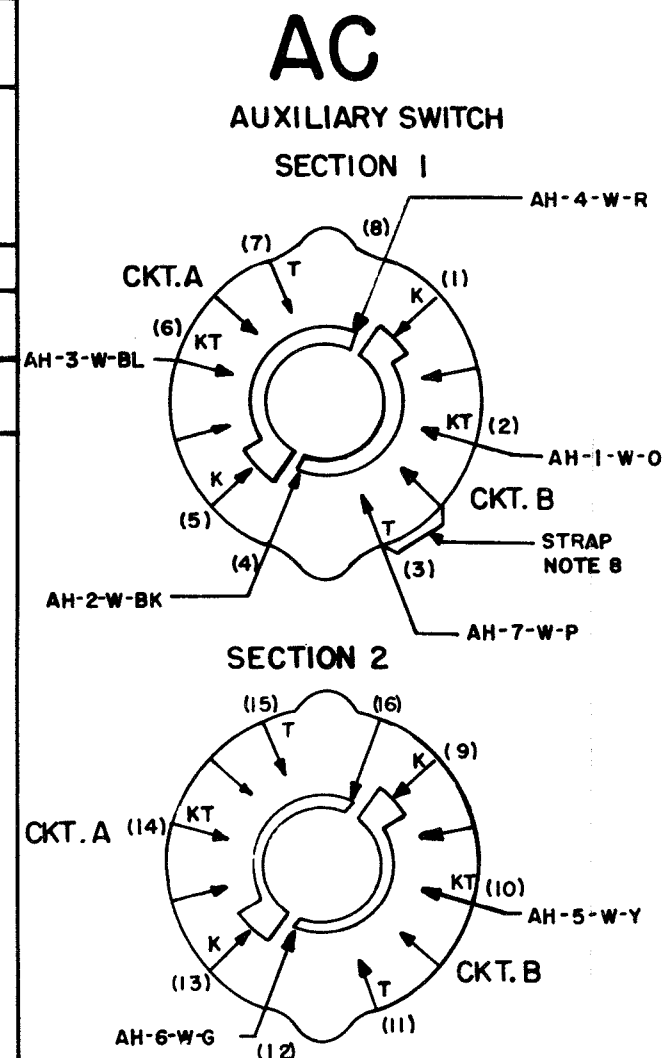
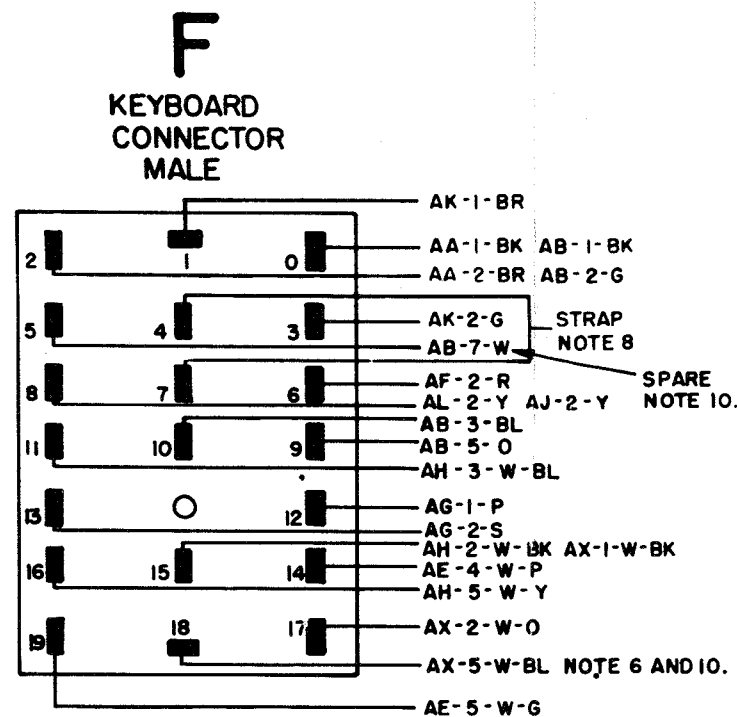
DRAWN J.M.K. CHKD R.D.

ENGD K.S. APPROVED

TELETYPE
CORPORATION

3300WD

NO	NOTES																				
1.	WIRING LEGEND																				
2.	COLOR CODES. <table> <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																				
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																					
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.	SPARE TERMINAL OF F-18 RESERVED FOR POLAR OPERATION OF KEYBOARD SIGNAL GENERATOR AND AL LAMP ON LAK 44.																				
7.	ASSOCIATED CABLES 158224 CABLE ASSEMBLY, AUXILIARY 158249 CABLE ASSEMBLY, KEYBOARD 155992 CABLE ASSEMBLY, BACK SPACE 159343 CABLE ASSEMBLY, BACK SPACE MAGNET 304613 CABLE ASSEMBLY, LAMP AND SWITCHES (LAK 44)																				
8.	BARE WIRE STRAP 39522 RM																				
9.	PART OF ASSOCIATED UNIT (LPE, LPR, LRPE OR LTPE)																				
10.	ON LAK 44 ONLY. REMOVE WHITE LEAD FROM F5 AND CUT OFF NEAR TUBING OF CABLE 158249.																				



3302 WD

ISSUE	DATE	AUTH NO
5	3-24-59	28-10903
6	4-27-59	28-10983
7	7-10-59	28-11487
8	8-4-59	28-11508
9	3-30-60	28-12924
10	8-24-60	28-13780
11	12-30-60	28-14465
12	8-7-62	74054
13	3-9-64	80416
14	4-3-64	80416-1
15	5-14-64	81758
16	4-14-65	87065
17	9-21-65	89204

SHEET 1 OF 2

ACTUAL
WIRING DIAGRAM
MODEL 28
KEYBOARD BASE
LAK 4, 25, 44.
ASR - GP - OPT I
ASR - GP - OPT II
LESU 13, 15, 16, 25,
28, 36, 112.

APPROVALS

D AND R E OF M

E-NUMBER
PROD. NO. 3302 WD

DATE 10-23-56

P.D. FILE NO 27A.65AA

DRAWN R.T.S. CHKD

ENGD O.P.L. APPD

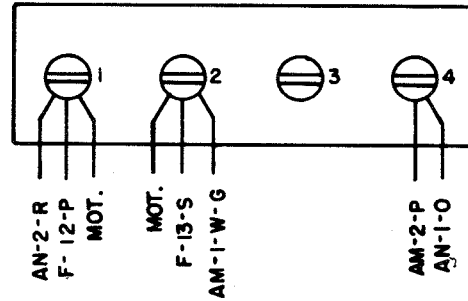
TELETYPE
CORPORATION

3302 WD

17

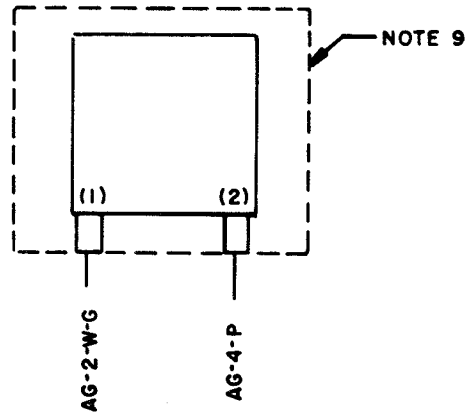
AG

MOTOR TERMINAL BLOCK



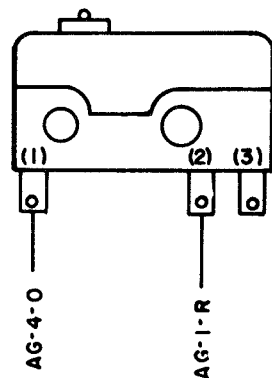
AM

BACK - SPACE MAGNET



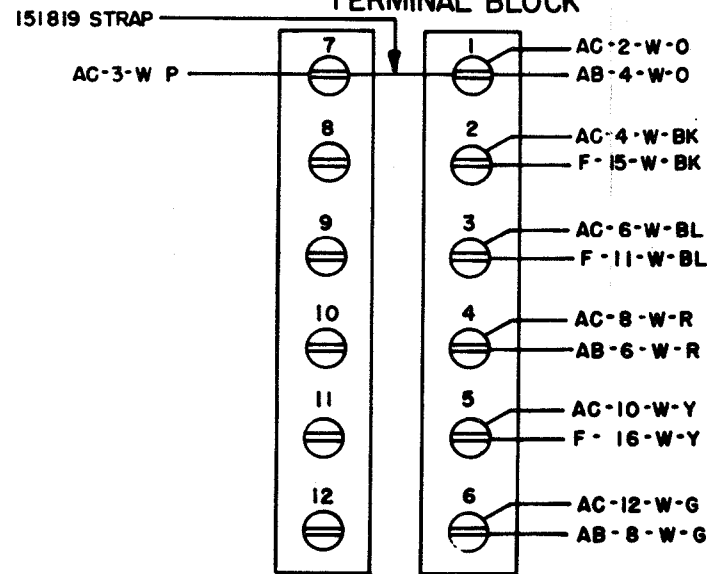
AN

BACK-SPACE SWITCH



AH

KEYBOARD
TERMINAL BLOCK



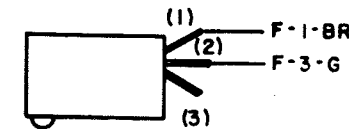
AJ

END-OF-LINE INDICATOR
SWITCH



AK

SIGNAL LINE BREAK KEY
SWITCH



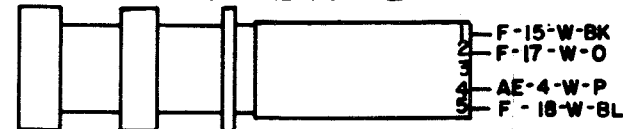
AL

MARGIN INDICATOR
SWITCH



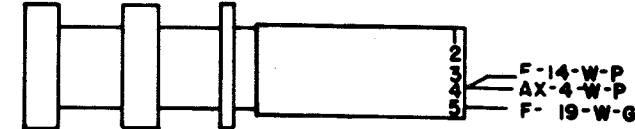
AX

AL LAMP AND AR KEY



AE

BID LAMP



LAK 44 ONLY

3302 WD

ISSUE	DATE	AUTH NO

SHEET 2 OF 2

ACTUAL
WIRING DIAGRAM
MODEL 28
KEYBOARD BASE
LAK 4, 25, 44,
ASR-GP-OPT I
ASR-GP-OPT II
LESU B, 15, 16, 25,
28, 36, 112.

APPROVALS

D AND R E OF M

E-NUMBER

PROD. NO. 3302 WD

DATE: 10-23-56

P.D. FILE NO. 27A.65AA

DRAWN R.T.S. CHKD

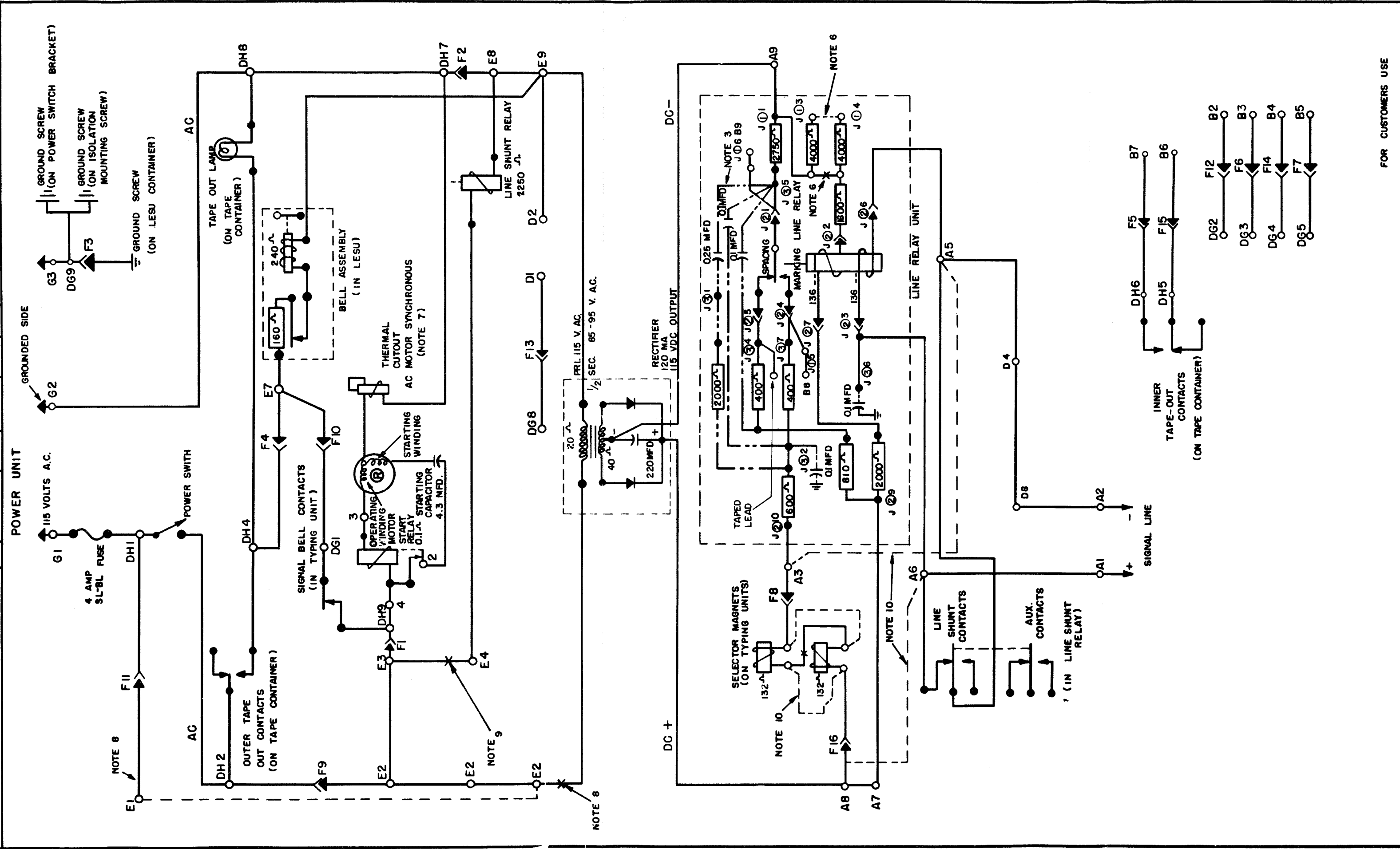
ENG'D O.P.L. APPD

TELETYPE
CORPORATION

3302 WD

ET-131481

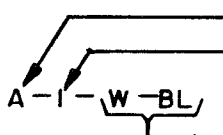
NO.	NOTES
1.	FOR ACTUAL WIRING DIAGRAMS OF INDIVIDUAL UNITS SEE WD NUMBER UNITS DIRECTLY OPERABLE WITH LESU 12
	3344 WD ELECTRICAL SERVICE UNIT LESU 12
	2900 WD MOTOR UNITS - L M U 3,4,6.
	3319 WD TYPING REPERFORATOR BASE LRB 3,11
2.	LEGEND O G 3-POINT CONNECTOR (ON BASE) O DG TERMINAL BLOCK (ON BASE) O DH TERMINAL BLOCK (ON BASE) F 16-POINT CONNECTOR O A TERMINAL BLOCK (IN LESU) O B TERMINAL BLOCK (IN LESU) O D TERMINAL BLOCK (IN LESU) O E TERMINAL BLOCK (IN LESU) O J ① TERMINAL STRIP ON LINE RELAY (IN LESU) O J ② LINE RELAY CONNECTOR (IN LESU) O J ③ LINE RELAY FILTER (IN LESU)
3.	DOT-DASH (---) LINES INDICATE FILTERING, SHIELDING AND SUPPRESSION NETWORKS.
4.	ALL APPARATUS IS SHOWN IN UNOPERATED OR DE-ENERGIZED POSITIONS.
5.	(A) RESISTANCE VALUES IN OHMS (Ω) (B) INDUCTANCE VALUES IN MICROHENRIES (MH) (C) CAPACITANCE VALUES IN MICROFARADS (MFD)
6.	CIRCUITS SHOWN FOR .060 AMP. NEUTRAL SIGNAL LINE OPERATION. FOR .020 AMP LINE CURRENT, ADD DASH LINE (---) CONNECTION AND OMIT CONNECTION MARKED (X) IN LINE RELAY.
7.	USE SYNCHRONOUS MOTOR ON REGULATED 60 (±1%) A.C. POWER ONLY. GOVERNED MOTORS AND OTHER POWER CIRCUITS OPERABLE ON 50 TO 60 UNREGULATED A.C.
8.	RECTIFIER SHOWN CONTROLLED BY POWER SWITCH A. FOR CONTINUOUS OPERATION MOVE PRIMARY (INPUT) LEAD FROM TERMINAL E2 TO TERMINAL E1.
9.	LINE SHUNT RELAY SHOWN CONTROLLED BY POWER SWITCH AND SHUNTING LINE RELAY COIL.
10.	FOR SPECIAL APPLICATIONS WHEN LESU 12 IS USED WITH LRB 20, THE FOLLOWING NOTE APPLIES; SELECTOR MAGNETS CAN BE OPERATED DIRECTLY IN A NEUTRAL SIGNAL LINE AS FOLLOWS: REMOVE LINE RELAY FOR 20 MILLIAMPERE, 60 AND 75 WPM OPERATION (OR ANY INTERMEDIATE SPEED.) 1. STRAP A5 TO A3 2. MOVE BLUE LEAD FROM TERMINAL A8 TO A6. FOR 60 MILLIAMPERE, 60, 75 & 100 WPM OPERATION (OR ANY INTERMEDIATE SPEED.) 1 AND 2 SAME AS ABOVE 3. ADD DASHED (---) LEAD, OMIT X LEAD ON SELECTOR MAGNETS (REFER TO 3342 WD)

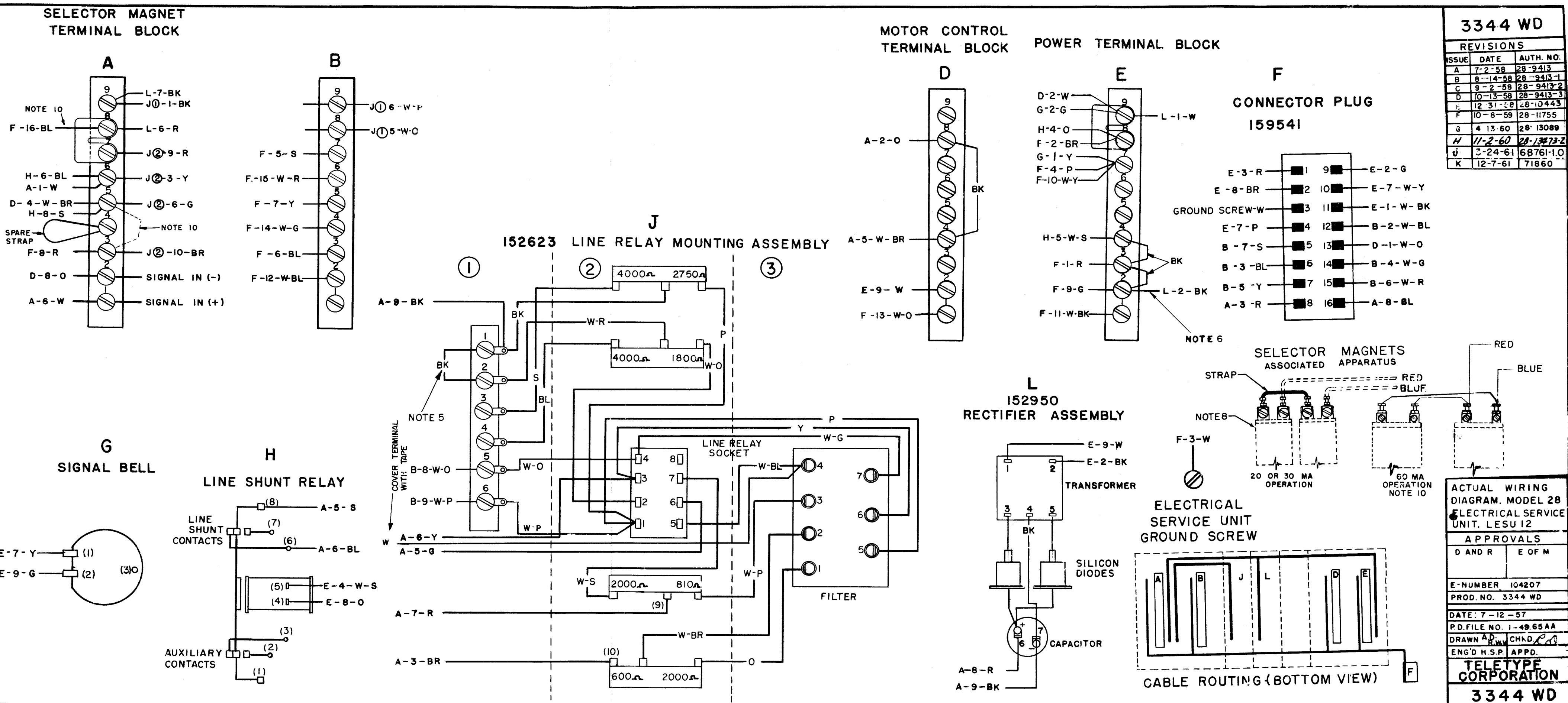


3343 WD		
REVISIONS		
ISSUE	DATE	AUTH. NO.
H	4-21-60	28-13089-1
J	11-8-60	28-15973-1
K	3-24-61	68-761-19
L	12-7-61	71860
M	3-28-62	60783-10
P	11-26-63	78878

FOR CUSTOMERS USE	
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SCHEMATIC WIRING DIAGRAM MODEL 28	
REPERFORATOR BASE LRB 3,11	
ELECT SERVICE UNIT LESU 12	
APPROVALS	
D AND R	E OF M
E-NUMBER 104027	
PROD. NO. 3343 WD	
DATE 6-27-87	
R.D. FILE NO. 1-49.65AA	
DRAWN E.R.	CHKD Q.Q.
ENGR H.S.P.	APPR J.J.C.
TELETYPE CORPORATION	
3343 WD	

NO.	NOTES																				
1.	WIRING LEGEND: 																				
2.	COLOR CODE <table><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-S - WHITE - SLATE</td></tr><tr><td>W - WHITE</td><td></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-S - WHITE - SLATE	W - WHITE		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-S - WHITE - SLATE																				
W - WHITE																					
S - SLATE																					
3.	UNIT WIRED FOR 115 VOLTS 50 TO 60 CYCLE A.C. POWER INPUT ONLY.																				
4.	CONNECTOR VIEWED FROM SOLDER TERMINAL END.																				
5.	CIRCUITS SHOWN FOR .060 AMP. NEUTRAL SIGNAL LINE OPERATION. FOR .020 AMP OPERATION REMOVE AND ADD CONNECTIONS AS TABULATED BELOW. <table><tr><th>SIGNAL LINE CURRENT</th><th>CONNECTION REMOVED</th><th>CONNECTION ADDED</th></tr><tr><td>.020 AMP.</td><td>J 01 - J 02,</td><td>J 03 - J 04</td></tr></table>	SIGNAL LINE CURRENT	CONNECTION REMOVED	CONNECTION ADDED	.020 AMP.	J 01 - J 02,	J 03 - J 04														
SIGNAL LINE CURRENT	CONNECTION REMOVED	CONNECTION ADDED																			
.020 AMP.	J 01 - J 02,	J 03 - J 04																			
6.	RECTIFIER SHOWN CONTROLLED BY POWER SWITCH. FOR CONTINUOUS OPERATION REMOVE LEAD L-2-BK FROM TERMINAL E-2 AND CONNECT TO TERMINAL E-1.																				
7.	LINE SHUNT RELAY SHOWN CONTROLLED BY POWER SWITCH AND SHUNTING LINE RELAY COIL.																				
8.	SELECTOR MAGNETS ARE TO BE WIRED AS SHOWN FOR 30 MILLIAMPERE OPERATION WHEN THE LINE RELAY IS USED.																				
9.	ASSOC. CABLE NUMBERS 159939 CABLE ASSEM., LESU 12 153477 CABLE ASSEM., RECTIFIER 164030 CABLE ASSEM., LINE RELAY MTG. ASSEM.																				
10.	SELECTOR MAGNETS CAN BE CONNECTED DIRECTLY IN THE SIGNAL LINE CIRCUIT FOR NEUTRAL OPERATION AS FOLLOWS: REMOVE LINE RELAY 20 MILLIAMPERE, 60 & 75 WPM OPERATION (OR ANY INTERMEDIATE SPEED) A STRAP A5 TO A3. B. MOVE BLUE LEAD FROM TERMINAL A8 TO TERMINAL A6 60 MILLIAMPERE, 60, 75 & 100 WPM OPERATION (OR ANY INTERMEDIATE SPEED) A & B SAME AS ABOVE C CHANGE WIRING ON SELECTOR MAGNETS FOR 60 MILLIAMPERE OPERATION.																				



REVISIONS		
ISSUE	DATE	AUTH. NO.
A	7-2-58	28-9413
B	8-14-58	28-9413-1
C	9-2-58	28-9413-2
D	10-13-58	28-9413-3
E	12-31-58	28-10443
F	10-8-59	28-11755
G	4-13-60	28-13089
H	11-2-60	28-13773-2
J	3-24-61	68761-1.0
K	12-7-61	71860

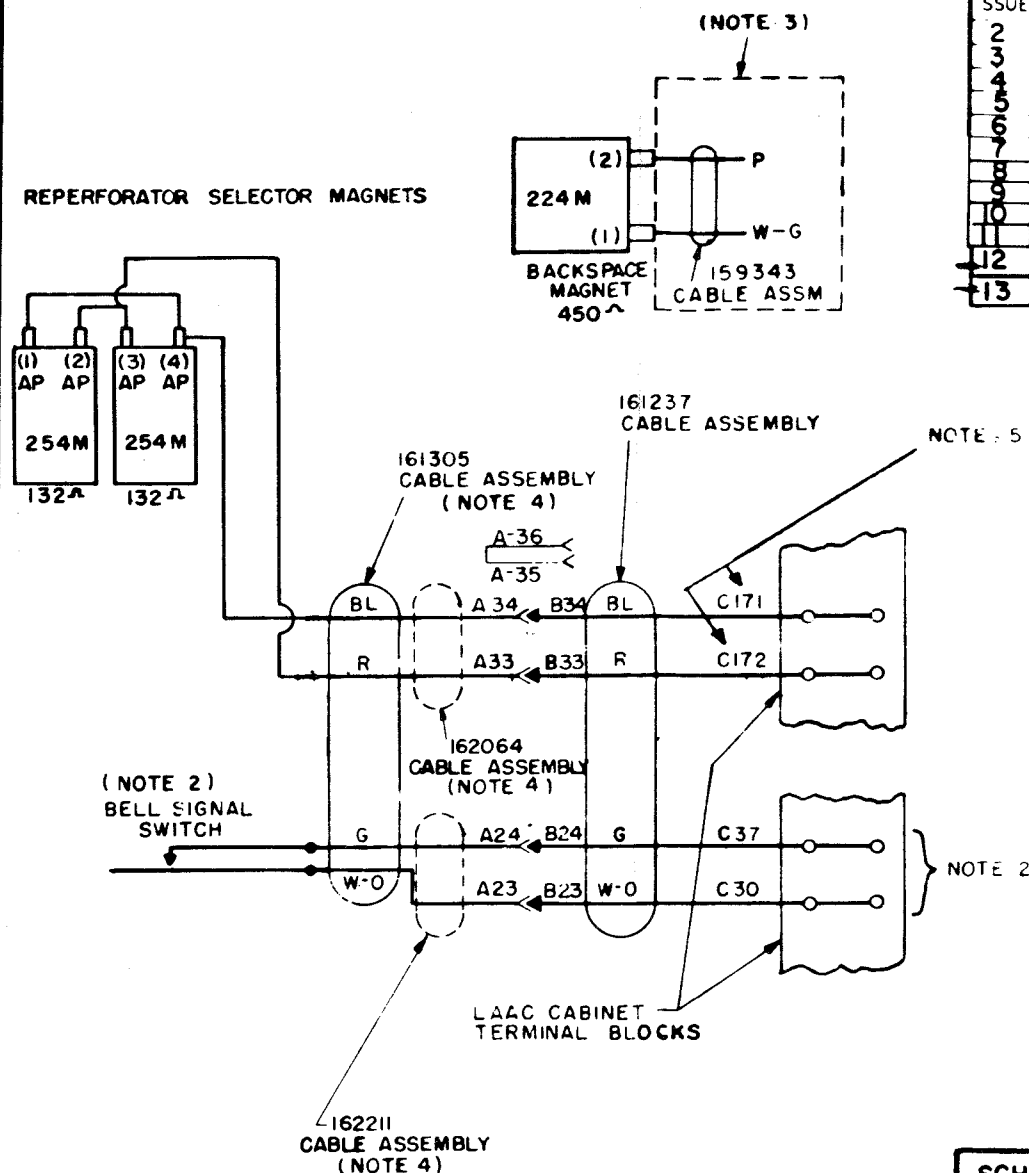
ACTUAL WIRING DIAGRAM, MODEL 28	
ELECTRICAL SERVICE UNIT, LESU 12	
APPROVALS	
D AND R	E OF M
E-NUMBER 104207	
PROD. NO. 3344 WD	
DATE: 7-12-57	
P.D. FILE NO. 1-49.65 AA	
DRAWN BY	CHKD BY
ENG'D H.S.P.	APPD.
TELETYPE CORPORATION	
3344 WD	

3567 WD

REVISIONS

ISSUE	DATE	AUTH NO
2	3-6-59	28-10836
3	4-27-59	28-10983
4	5-20-59	28-11062
5	1-13-60	28-12424
6	2-10-60	28-12625
7	4-6-60	28-13061
8	5-3-60	28-12266
9	4-6-61	69279
10	11-16-62	75121
11	12-20-62	75403
12	3-12-63	76325
13	9-8-66	91153

REPERFORATOR SELECTOR MAGNETS



NOTES:

REPERFORATOR SELECTOR MAGNETS SHOWN FOR .060 AMP OPERATION. FOR .020 AMP OPERATION REMOVE AND ADD CONNECTIONS AS TABULATED BELOW

4. LPR 51 & 56 USE 162064 & 162211 CABLE ASSEMBLIES. LRPE 6 USES 162064 CABLE ASSEMBLY. LPR 77 USES 162064 CABLE ASSEMBLY.

	CONNECTION REMOVED	CONNECTION ADDED
.020 AMPS.	A33- AP3 AP2- AP3 API- AP4	A33- AP2 API- AP3

2. BELL SIGNAL SWITCH NOT USED ON LRPE 6. TIE BACK W-O AND G WIRES ALONG CABLE 161237 WHEN USED WITH LRPE 6

3. PART OF LAK 4. & LAK 18

5. WHEN THESE TERMINALS ARE NOT AVAILABLE, THE 159396 MODIFICATION KIT TO ADD TERMINALS C-15 TO C-180, MAY BE ORDERED.

SCHEMATIC WIRING
DIAGRAM-LPR 10,33
56,51,77 AND LRPE 6

APPROVALS

D AND R

F OF M

E NUMBER

PROD NO 3567

DATE 8-7-58

PD FILE NO 1-76.65AA

DRAWN JNC

CHKD

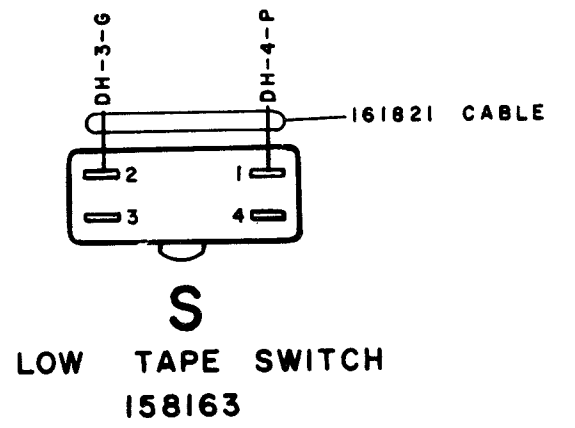
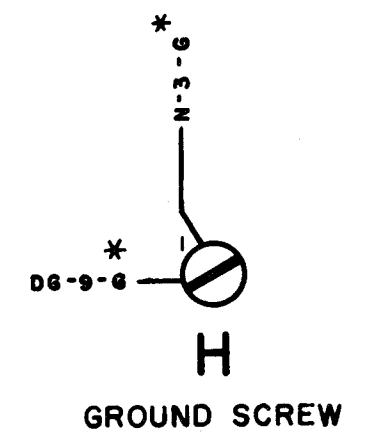
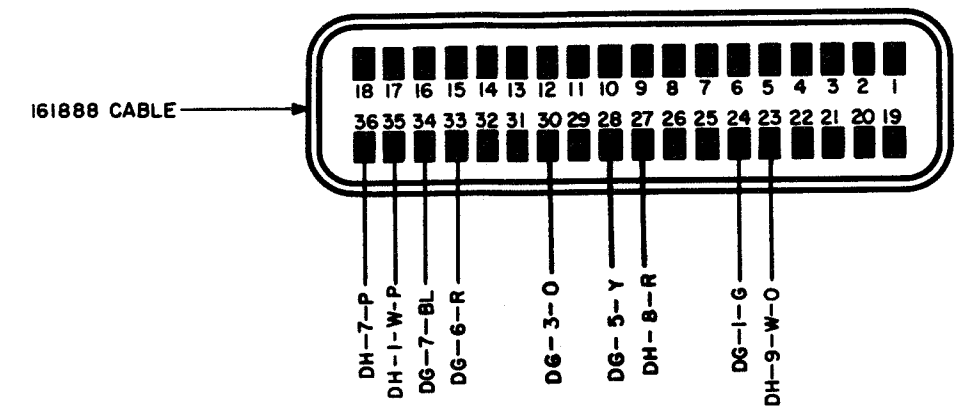
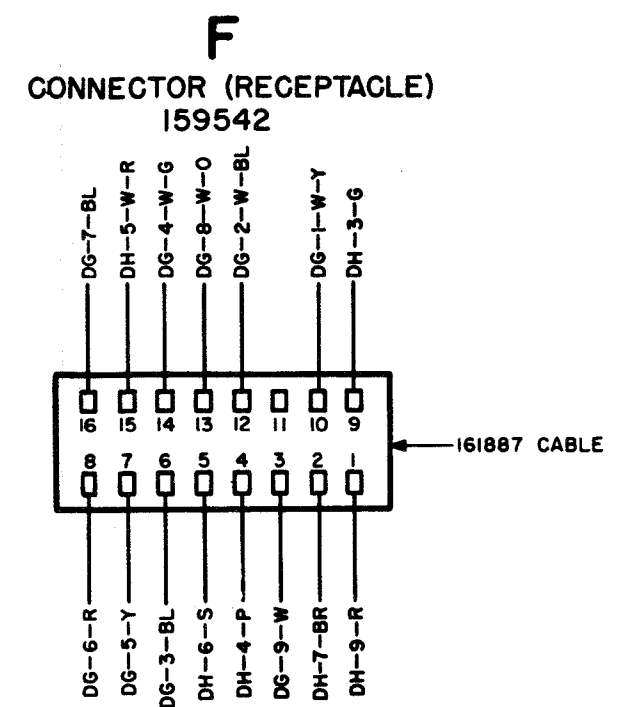
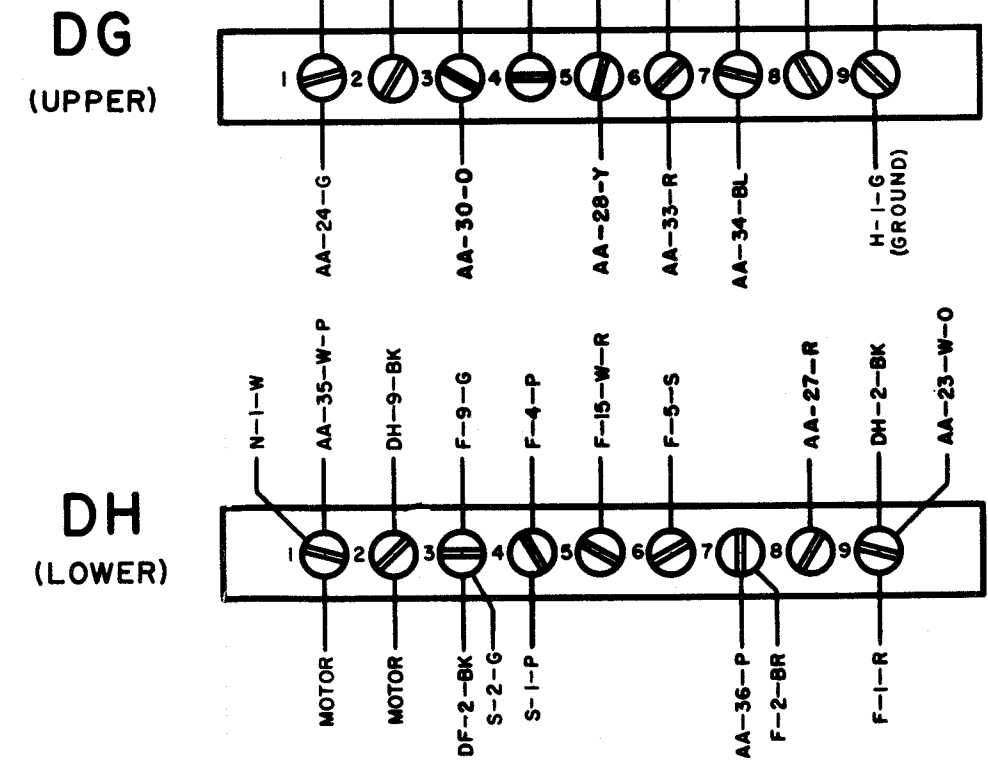
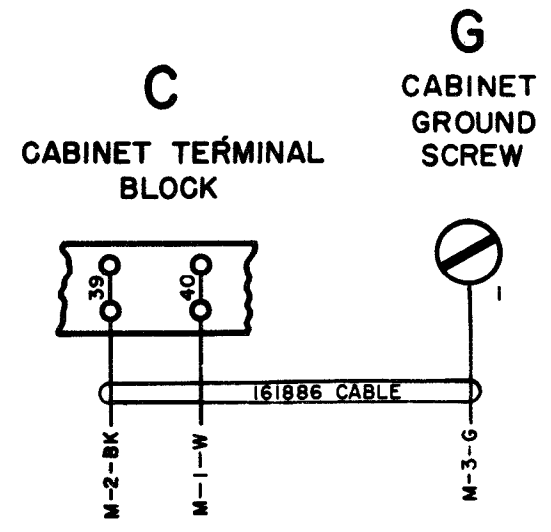
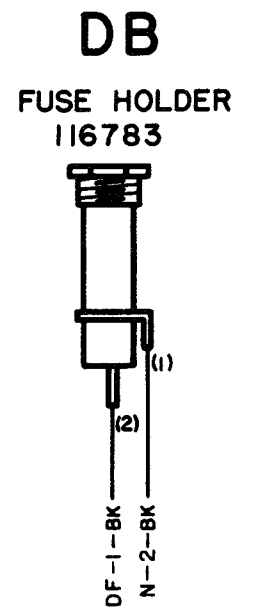
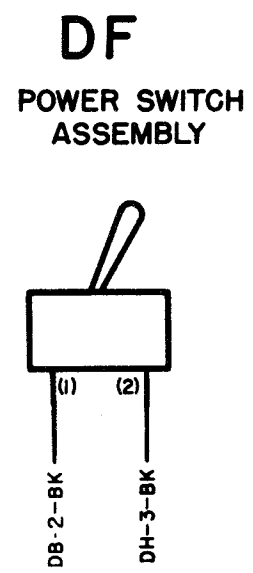
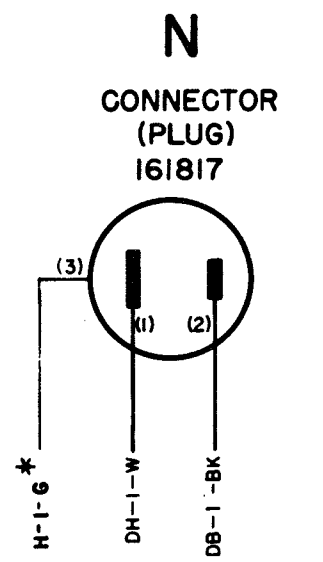
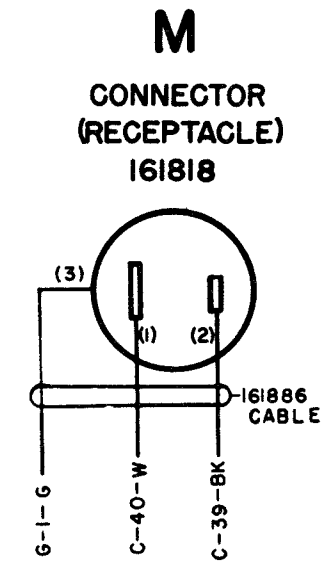
ENGD GW

APPD

TELETYPE
CORPORATION

3567 WD

NO	NOTES
1.	WIRING LEGEND: AB-2-W
2.	COLOR CODE: BK-BLACK BR-BROWN R-RED O-ORANGE Y-YELLOW G-GREEN BL-BLUE S-SLATE P-PURPLE W-WHITE W-BK WHITE-BLACK W-BR WHITE-BROWN W-R WHITE-RED W-O WHITE-ORANGE W-Y WHITE-YELLOW W-G WHITE-GREEN W-BL WHITE-BLUE W-S WHITE-SLATE W-P WHITE-PURPLE
3.	ASSOCIATED CABLE ASSEMBLIES 161886, 161887 & 161888.
4.	ALL CONNECTORS VIEWED FROM SOLDER END.
5.	TERMINAL DESIGNATIONS ENCLOSED IN PARENTHESIS ARE NOT MARKED ON COMPONENTS.
6.	FOR SCHEMATIC WIRING DIAGRAM SEE 3591 WD.

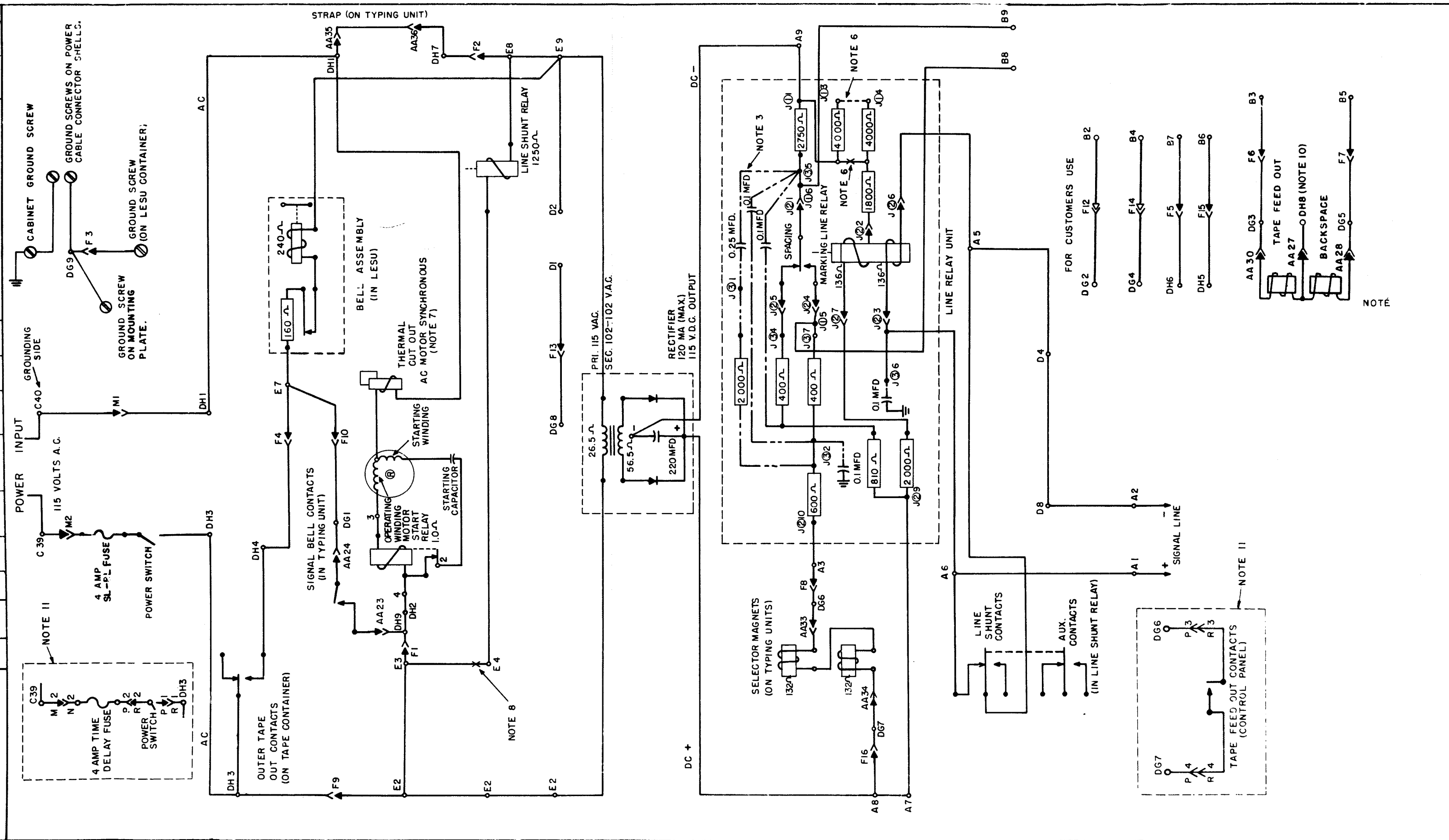


3590 WD

REVISIONS		
ISSUE	DATE	AUTH. NO.
1	8-28-59	28-11618
2	8-19-63	77729
3	8-31-66	88827-1

APPROVALS	
D AND B	E OF M
E-NUMBER	
PROD. NO. 3590 WD	
ACTUAL WIRING DIAGRAM MODEL 28 REPERFORATOR BASE LRB 5-6	
DATE: 9-25-58	
P.D. FILE NO. 8-A65.AA	
DRAWN: K.F.L.	CHKD. [Signature]
ENG'D. G.E.W.	APP'D. [Signature]
TELETYPE CORPORATION	
3590 WD	

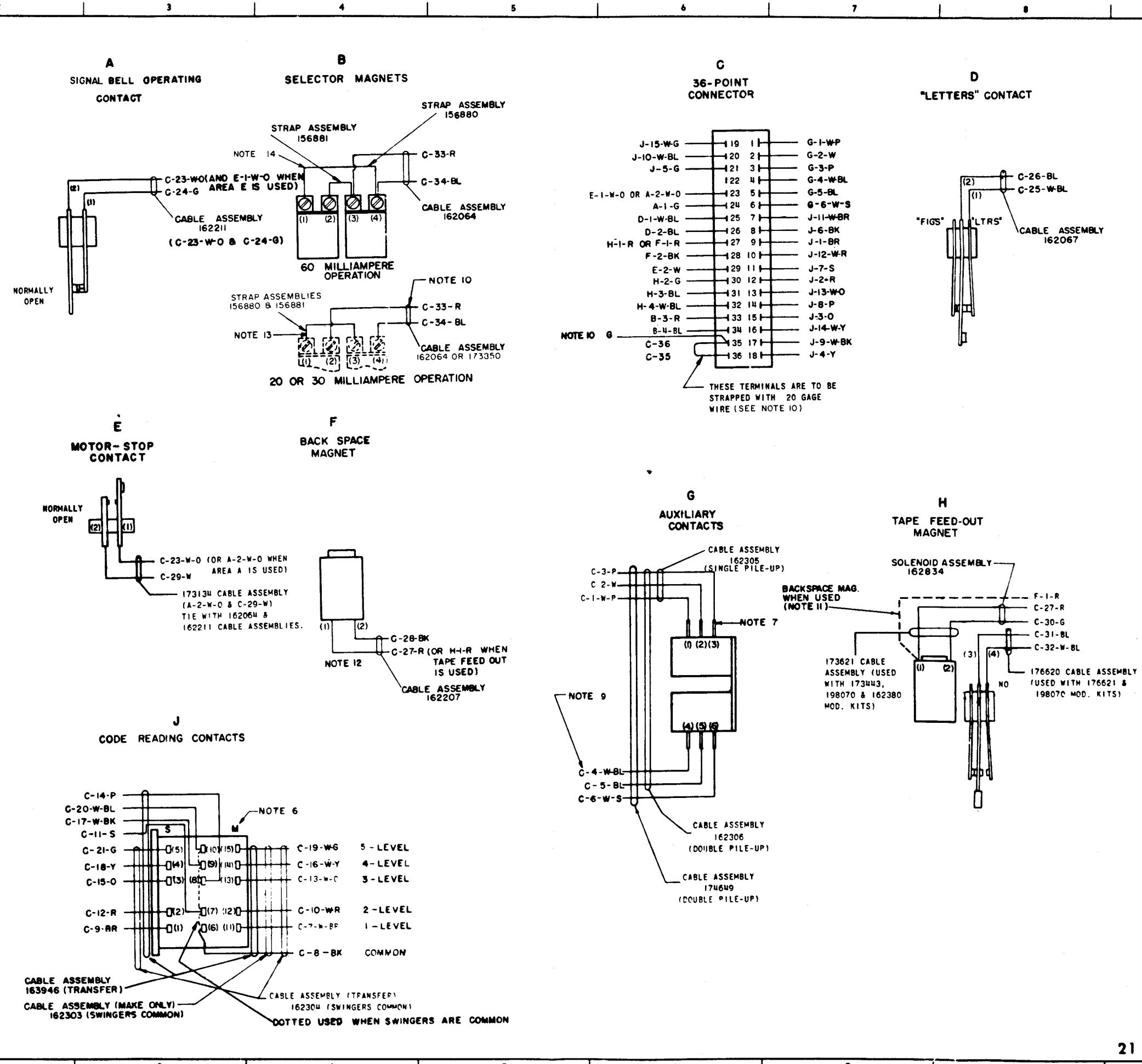
NO	NOTES
1.	FOR ACTUAL WIRING DIAGRAMS OF INDIVIDUAL UNITS SEE WD NUMBER UNITS DIRECTLY OPERABLE WITH LESU 12 3344 WD ELECTRICAL SERVICE UNIT LESU 12 2900 WD MOTOR UNITS—LMU 3,4,6 3590 WD TYPING REPERFORATOR BASE LRB 5, LRB 6
2.	LEGEND ◦ DG TERMINAL BLOCK (ON BASE) ◦ DH TERMINAL BLOCK (ON BASE) ◦ F 16-POINT CONNECTOR ◦ A TERMINAL BLOCK (IN LESU) ◦ B TERMINAL BLOCK (IN LESU) ◦ D TERMINAL BLOCK (IN LESU) ◦ E TERMINAL BLOCK (IN LESU) ◦ J ① TERMINAL STRIP ON LINE RELAY (IN LESU) ◦ J ② LINE RELAY CONNECTOR (IN LESU) ◦ J ③ LINE RELAY FILTER (IN LESU) ◦ AA 36 POINT CONNECTOR (ON BASE) ◦ C CABINET TERMINAL BLOCK ◦ P CONTROL PANEL CONNECTOR ◦ R CONTROL PANEL CONNECTOR
3.	DOT-DASH(---) LINES INDICATE FILTERING SHIELDING AND SUPPRESSION NETWORKS.
4.	ALL APPARATUS IS SHOWN IN UNOPERATED OR DE-ENERGIZED POSITIONS.
5.	(a) RESISTANCE VALUES IN OHMS (Ω) (b) INDUCTANCE VALUES IN MICROHENRIES (MH) (c) CAPACITANCE VALUES IN MICROFARADS (MFD)
6.	CIRCUITS SHOWN FOR .060 AMP. NEUTRAL SIGNAL LINE OPERATION. FOR .020 AMP LINE CURRENT, ADD DASH LINE (---) CONNECTION AND OMIT CONNECTION MARKED (X) IN LINE RELAY.
7.	USE SYNCHRONOUS MOTOR ON REGULATED 60 ~ (±1%) AC POWER ONLY. GOVERNED MOTORS AND OTHER POWER CIRCUITS OPERABLE ON 50 TO 60 ~ UNREGULATED A.C.
8.	LINE SHUNT RELAY SHOWN CONTROLLED BY POWER SWITCH AND SHUNTING LINE RELAY COIL.
9.	TAPE FEED OUT AND/OR BACKSPACE MAGNETS ARE AVAILABLE ONLY WITH SPECIFIC CODED LPR UNITS.
10.	WHEN COMMON CONNECTION IS USED, D.C. MUST BE PROVIDED FOR MAGNETS OTHER THAN 224M WHICH OPERATES ON A.C. OR D.C.
11.	WIRING FOR LRB6 (EQUIPPED WITH I78838 MOD. KIT) OR LRB36, LRB51



3591 WD		
REVISIONS		
ISSUE	DATE	AUTH. NO.
2	8-28-59	28-11618
3	5-19-60	69791
4	6-20-61	70239
5	1-9-63	75620
6	11-27-63	78864
7	6-15-64	82627
8	5-25-65	87056
9	8-31-66	88827-1

SCHEMATIC WIRING DIAGRAM MODEL 28	
REPERFORATOR BASE LRB 5, 6, 36, 42, 51	
ELECT SERVICE UNIT LESU 12	
APPROVALS	
D AND R	E OF M
E-NUMBER	
PROD. NO. 3591 WD	
DATE: 9-22-58	
P.D. FILE NO.	
DRAWN E. M.	CHKD. J. J.
ENG. G. W.	APPD. J. J.
TELETYPE CORPORATION	
3591 WD	

NOTES	
1.	WIRING LEGEND: DISTANT TERMINATING AREA DISTANT TERMINATING DESIGNATION WIRE COLOR CODE
2.	COLOR CODE: BK - BLACK BR - BROWN R - RED O - ORANGE Y - YELLOW G - GREEN BL - BLUE P - PURPLE S - SLATE W - WHITE
3.	TERMINAL DESIGNATIONS ENCLOSED IN PARENTHESES ARE FOR REFERENCE AND ARE NOT MARKED ON COMPONENTS.
4.	TERMINALS ON CONNECTOR SHOWN AS VIEWED FROM SOLDER END.
5.	NORMALLY OPEN (NO) AND NORMALLY CLOSED (NC) CONTACTS ARE SHOWN WHEN THE REPERFORATOR IS IN THE STOP (IDLE) POSITION.
6.	THE SPACING (S) SIDE ON THE CODE READING CONTACTS ARE NORMALLY CLOSED. THE MARKING (M) SIDE OF THE CODE READING CONTACTS ARE NORMALLY OPEN.
7.	WHEN THE AUXILIARY CONTACTS ARE OPERATED FROM A SINGLE CYCLE FUNCTION CAM, THE CONTACTS NEAREST THE MOUNTING BRACKET ARE NORMALLY CLOSED. WHEN THE AUXILIARY CONTACTS ARE OPERATED FROM A DOUBLE CYCLE FUNCTION CAM, THE CONTACTS FARTHEST FROM THE MOUNTING BRACKET ARE NORMALLY CLOSED.
8.	GENERAL NOTE: WIRING OF INDIVIDUAL COMPONENTS IS DETERMINED BY REFERRING TO THE CABLE ASSEMBLIES SPECIFIED ON THE UNIT B/M.
9.	WHEN USING THE 162306 CABLE ASSEMBLY WITH THE LRP66, CONNECT THE W-BL WIRE (NORMALLY CONNECTED TO 64) TO 66.
10.	
11.	WHEN COMMON CONNECTION IS USED, D.C. MUST BE PROVIDED FOR MAGNETS OTHER THAN 2244 WHICH OPERATES ON A.C. OR D.C.
12.	FOR WIRING OF BACKSPACE MAGNET ON LAK KEYBOARD MOUNTED PERFORATORS, REFER TO ASSOCIATED LAK WIRING DIAGRAM.
13.	SELECTOR MAGNETS MUST BE STRAPPED FOR 60 MILLIAMPERE OPERATION WHEN 179615 AND 179616 R.F. SUPPRESSION MODIFICATION KITS ARE USED WITH REPERFORATOR SET.
14.	ON UNITS EQUIPPED WITH THE 173850 SHIELDED CABLE, THE STRAP BETWEEN TERMINALS C-35 AND C-36 IS OMITTED AND THE "G" WIRE OF THE CABLE IS CONNECTED TO TERMINAL C-35. IF THE UNIT EQUIPPED WITH THE 173850 SHIELDED CABLE IS USED ON A BASE NOT CONTAINING PROVISIONS FOR R.F. SUPPRESSION (INCLUDING BELL SYSTEM) REMOVE THE "G" WIRE FROM TERMINAL C-35 AND ADD STRAP BETWEEN TERMINALS C-35 AND C-36.
15.	THE LPR 66 SELECTOR MAGNET ASSEMBLY SHALL BE STRAPPED IN PARALLEL FOR 500 MA OPERATION

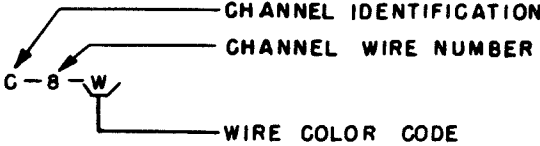
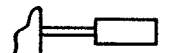
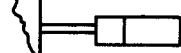


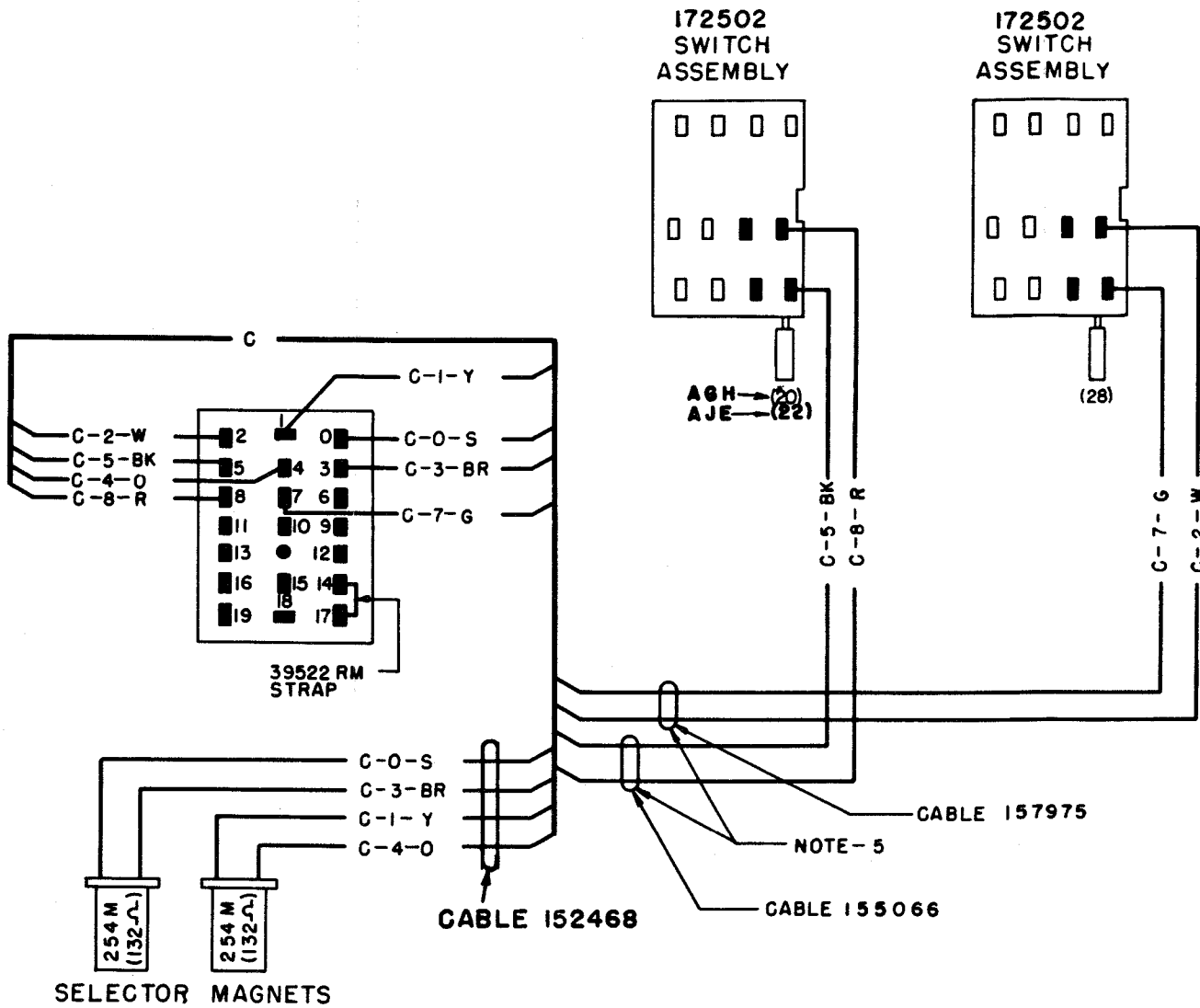
3628WD		
REVISIONS		
ISSUE	DATE	AUTH. NO.
A 2	4-13-59	28-10974
B 3	5-20-59	28-11062-1
C 4	8-4-59	28-11499
5	4-6-60	28-12999
6	5-3-60	28-13251
7	9-7-60	28-13795
8	10-26-60	28-14088
9	12-19-60	28-14370
10	5-19-61	69691
11	5-19-61	69791
12	11-16-61	71633
13	7-10-62	74013
14	2-9-63	75940
15	2-9-63	75958
16	5-31-63	76926
17	12-30-63	79205
18	10-5-64	83406
19	3-31-65	86803
20	1-6-66	89856
21	5-9-66	93891

APPROVALS	
D AND R	E OF M
-----	-----

E-NUMBER	
PROD. NO.	3628WD
DATE	11-17-58
P.D. FILE NO.	14-49.65AA
DRAWN R.B.B.	CHKD.
ENGR. D.C.L.	APPD.

TELETYPE CORPORATION
3628WD

NO.	NOTES.
1.	WIRING CHANNEL DESIGNATED BY "C" DOES NOT REPRESENT CABLE BUT ASSISTS IN TRACING CONNECTIONS.
2.	CHANNEL LEGEND* 
3.	COLOR CODE: BK - BLACK O - ORANGE R - RED Y - YELLOW W - WHITE S - SLATE G - GREEN BR - BROWN
4.	CONNECTORS VIEWED FROM SOLDERED TERMINAL ENDS.
5.	THESE CABLES ARE FURNISHED WITH STUNT BOX.
6.	 NORMALLY OPEN CONTACT  NORMALLY CLOSED CONTACT

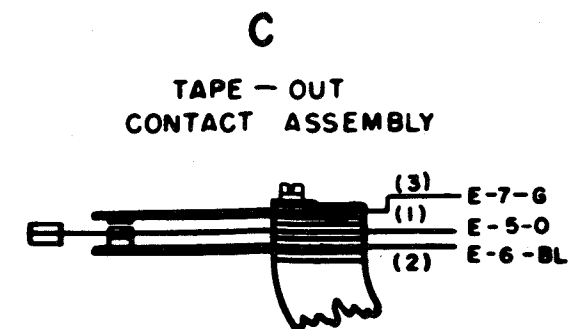
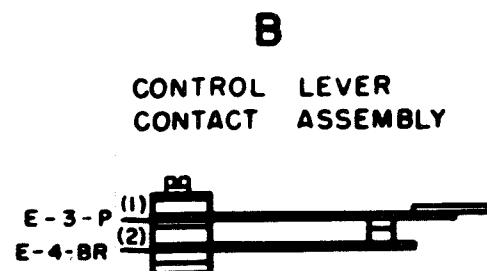
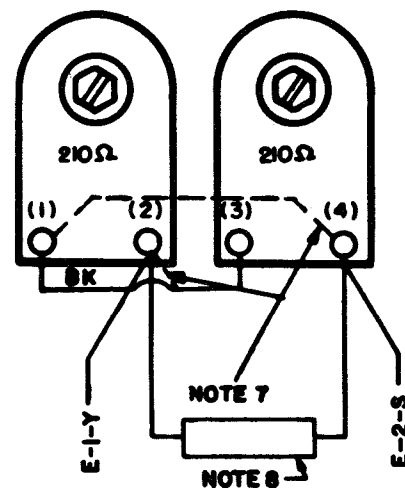


3813 WD		
ISSUE	DATE	AUTH NO.
A	1/25/60	28-12505
B	10-14-60	28-13541
C	8-20-62	74211
D	5-20-63	76966

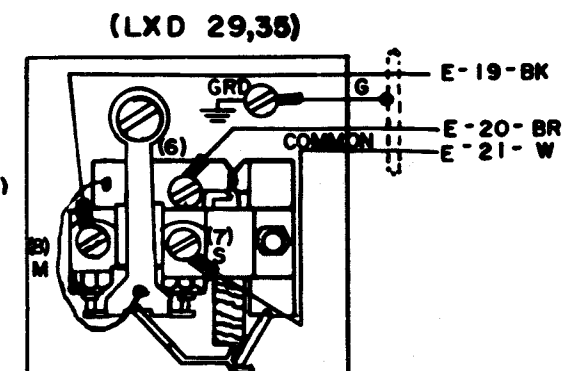
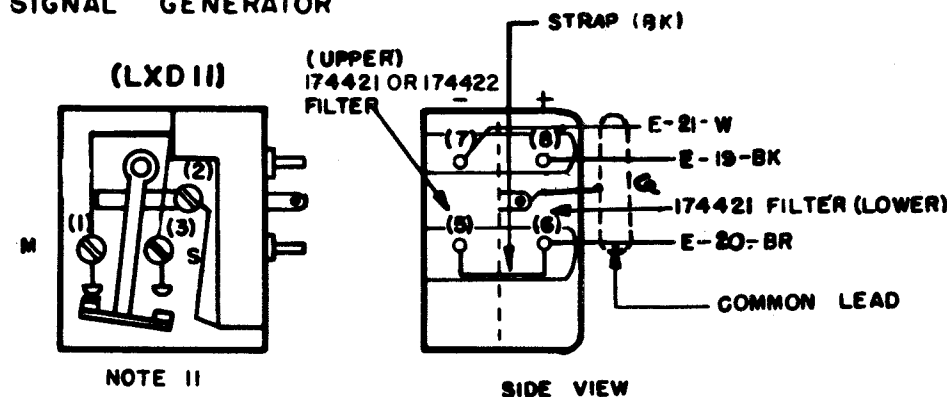
ACTUAL WIRING DIAGRAM MODEL 28 TYPING UNIT LP, 14, 108 STUNT BOX ARRANGT. AGH, AJE	
APPROVALS D AND R  E OF M 	
E. NUMBER	
PROD. NO. 3813 WD	
DATE: 10-10-59	
P.D. FILE NO. 5-30.65/120.125A	
DRAWN. E. M.	CHKD 
ENG'D. R.H.L.	APP'D 
TELETYPE CORPORATION 3813 WD	

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: 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.																				

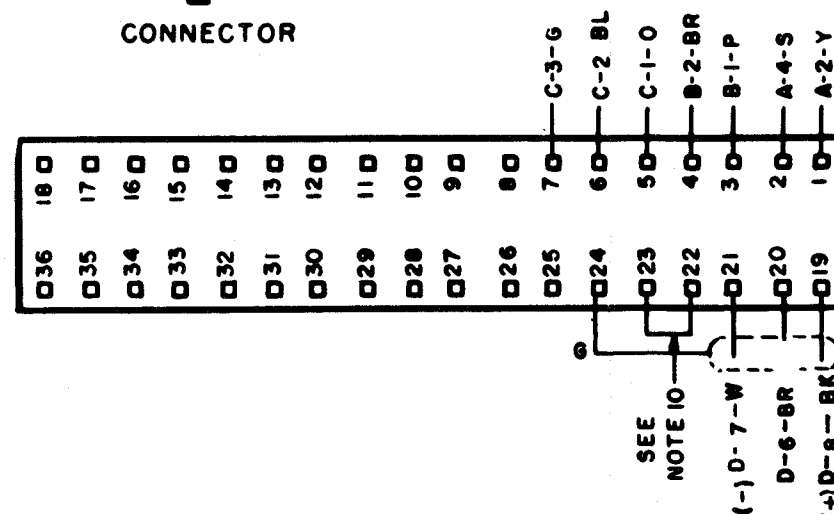
A
TRANSMITTER DISTRIBUTOR
CLUTCH MAGNETS



D
TRANSMITTER DISTRIBUTOR
SIGNAL GENERATOR



E
CONNECTOR



4264 WD

ISSUE	DATE	AUTH NO
1	9-24-60	66-782
2	11-18-60	66-782
3	5-16-62	73431
4	2-20-64	79225-1
5	3-8-64	79225-9
6	3-16-65	79225-10
7	2-16-66	84706
8	9-28-66	91161

ACTUAL
WIRING DIAGRAM
MODEL 28
TRANSMITTER
DISTRIBUTOR
LXD 11, 29,35

APPROVALS

D AND R	E OF M

E-NUMBER
PROD. NO. 4264 WD

DATE 6-8-60

P.D. FILE 18-A.65-2.219 A

DRAWN. WPH CHKD.

ENG. DCL APPD.

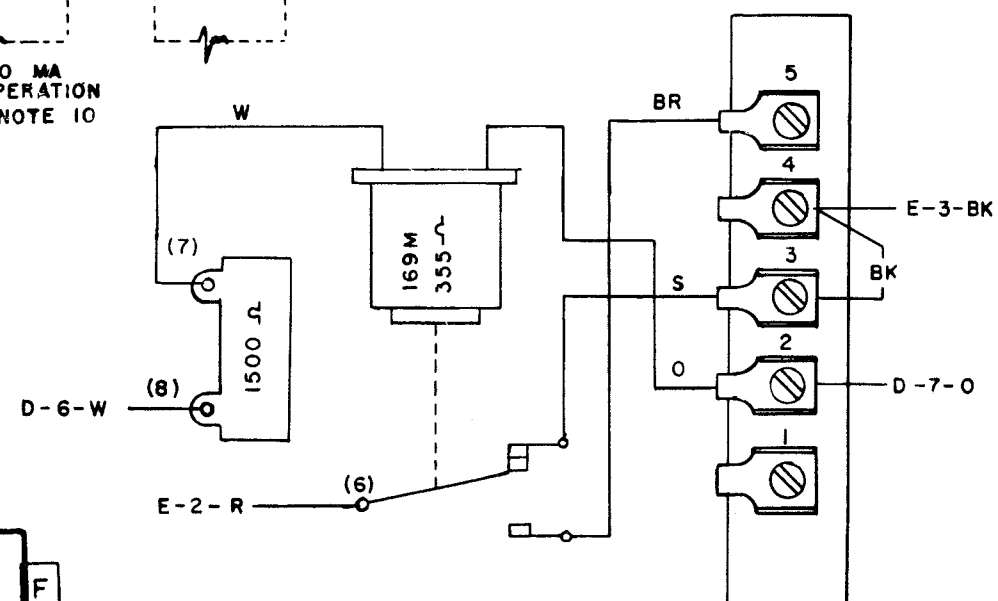
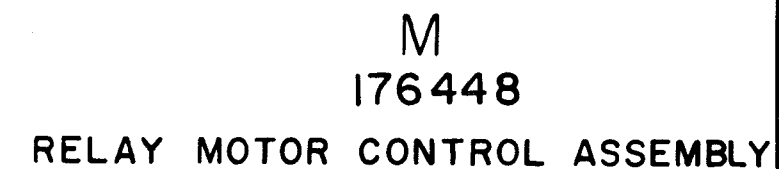
TELETYPE
CORPORATION

4264 WD

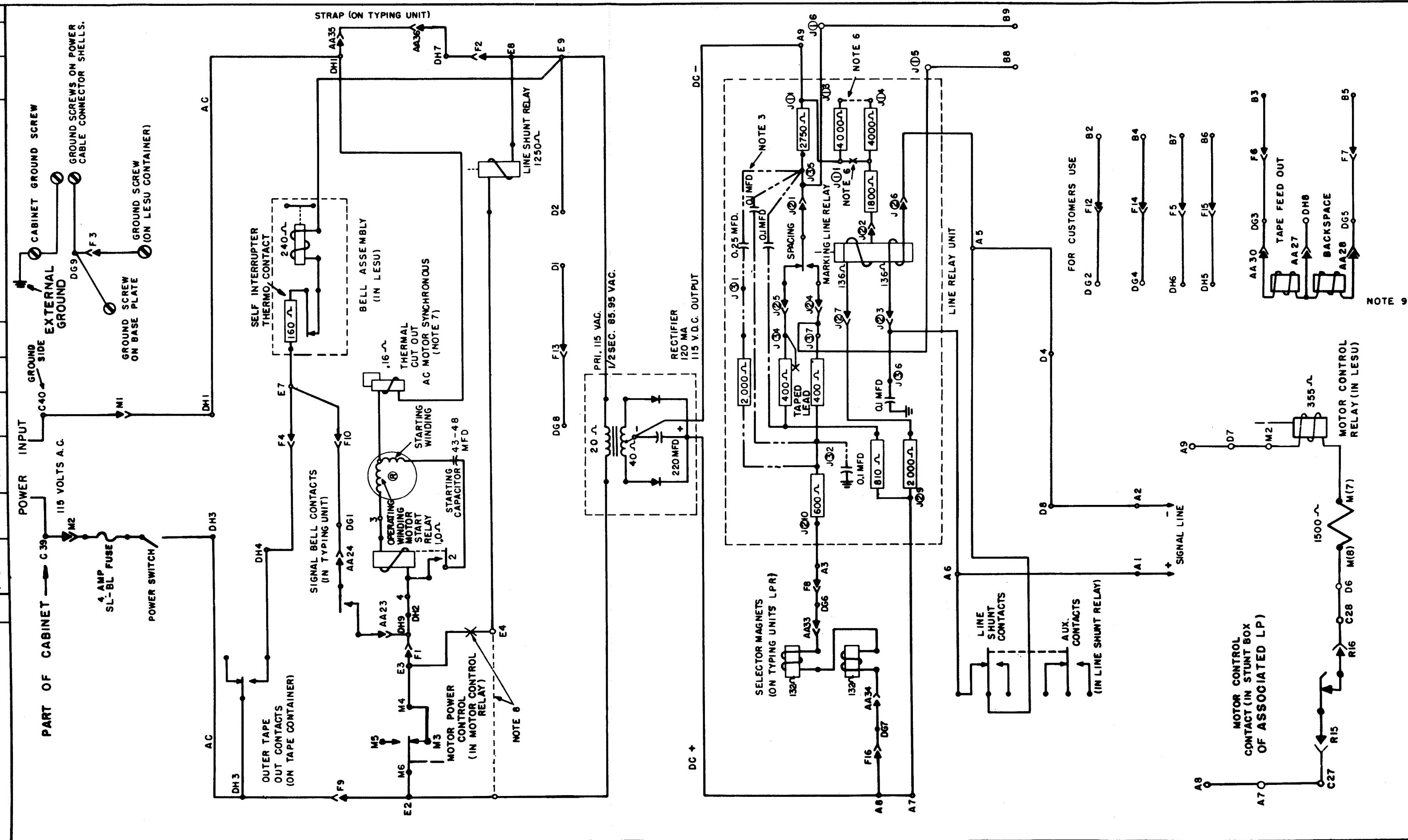
ACTUAL
WIRING DIAGRAM
MODEL 28
ELECT. SERVICE
UNIT 73

4385WD

G
SIGNAL BELL



NO	NOTES
1.	FOR ACTUAL WIRING DIAGRAMS OF INDIVIDUAL UNITS SEE WD NUMBER UNITS DIRECTLY OPERABLE WITH LESU 73 4385 WD ELECTRICAL SERVICE UNIT LESU 73 2900 WD MOTOR UNITS—LMU 3,4,6 3590 WD TYPING REPERFORATOR BASE LRB 5, LRB 6
2.	LEGEND ◦ D6 TERMINAL BLOCK (ON BASE) ◦ DH TERMINAL BLOCK (ON BASE) ◁ F 16-POINT CONNECTOR ◦ A TERMINAL BLOCK (IN LESU) ◦ B TERMINAL BLOCK (IN LESU) ◦ D TERMINAL BLOCK (IN LESU) ◦ E TERMINAL BLOCK (IN LESU) ◦ J ① TERMINAL STRIP ON LINE RELAY (IN LESU) ◁ J ② LINE RELAY CONNECTOR (IN LESU) ◦ J ③ LINE RELAY FILTER (IN LESU) ◁ AA 36 POINT CONNECTOR (ON BASE) - C CABINET TERMINAL BLOCK ◦ M MOTOR CONTROL RELAY (IN LESU)
3.	DOT-DASH(-----) LINES INDICATE FILTERING SHIELDING AND SUPPRESSION NETWORKS.
4.	ALL APPARATUS IS SHOWN IN UNOPERATED OR DE-ENERGIZED POSITIONS.
5.	(a) RESISTANCE VALUES IN OHMS (Ω) (b) INDUCTANCE VALUES IN MICROHENRIES (MH) (c) CAPACITANCE VALUES IN MICROFARADS (MFD)
6.	CIRCUITS SHOWN FOR .060 AMP. NEUTRAL SIGNAL LINE OPERATION. FOR .020 AMP LINE CURRENT, ADD DASH LINE (---) CONNECTION AND OMIT CONNECTION MARKED (✱) IN LINE RELAY.
7.	USE SYNCHRONOUS MOTOR ON REGULATED 60 ~ (±1%) AC. POWER ONLY. GOVERNED MOTORS AND OTHER POWER CIRCUITS OPERABLE ON 50 TO 60 ~ UNREGULATED A.C.
8.	LINE SHUNT RELAY SHOWN CONTROLLED BY POWER SWITCH AND MOTOR CONTROL RELAY. FOR CONTROL OF LINE SHUNT BY POWER SWITCH ONLY REMOVE CONNECTION MARKED (✱) AND ADD DASH LINE (---) CONNECTION.
9.	TAPE FEED OUT AND/OR BACKSPACE MAGNETS ARE AVAILABLE ONLY WITH SPECIFIC CODED LPR UNITS.

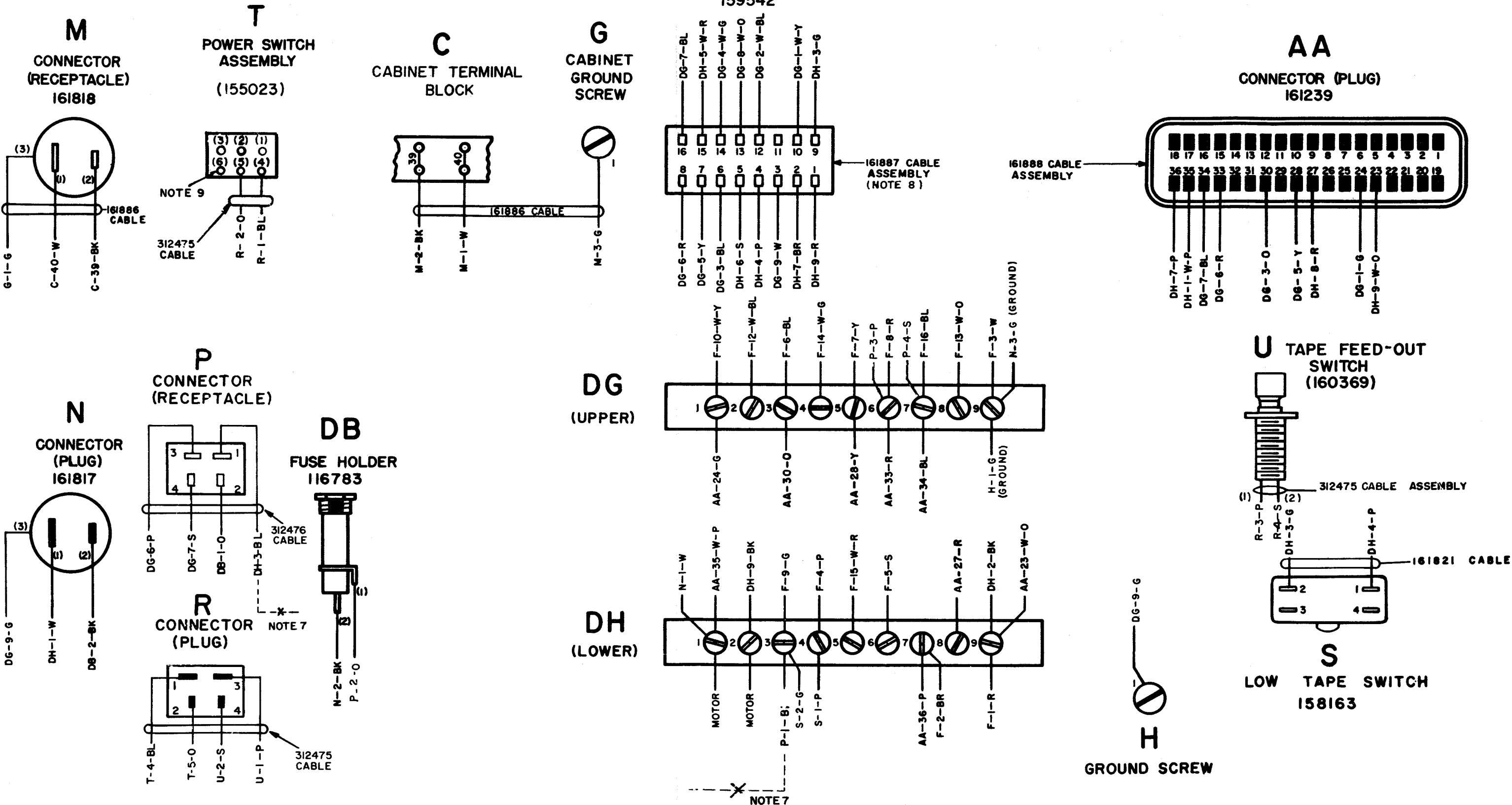


4386WD		
REVISIONS		
ISSUE	DATE	AUTH NO.
A	8-3-61	70466
B	12-7-61	71860
C	11-14-63	78862

**SCHEMATIC
DIAGRAM
FOR MODEL 28
ELECTRICAL
SET JOE UNIT
LESU73
ASSOCIATED UNITS
LMU MOTOR UNIT
LP TYPING UNIT
LPR TYPING REPERF
LRB REPERF. BASE**

APPROVALS	
<i>[Signature]</i>	<i>[Signature]</i>
E. NUMBER	
PROD. NO. 4386 WD	
DATE:	
P.D. FILE NO	
DRAWN <i>D.M.Z.</i>	CHKD
ENGD. <i>E.F.D.</i>	APPD <i>60C</i>
TELETYPE CORPORATION	
4386 WD	

NO	NOTES																				
1.	WIRING LEGEND: AB-2-W																				
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>S - SLATE</td> <td>W-S WHITE-SLATE</td> </tr> <tr> <td>P - PURPLE</td> <td>W-P WHITE-PURPLE</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	S - SLATE	W-S WHITE-SLATE	P - PURPLE	W-P WHITE-PURPLE	W - WHITE	
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																				
S - SLATE	W-S WHITE-SLATE																				
P - PURPLE	W-P WHITE-PURPLE																				
W - WHITE																					
3.	ALL CONNECTORS VIEWED FROM SOLDER END.																				
4.	TERMINAL DESIGNATIONS ENCLOSED IN PARENTHESIS ARE NOT MARKED ON COMPONENTS.																				
5.	FOR SCHEMATIC WIRING DIAGRAM SEE 3591WD.																				
6.	ASSOCIATED CABLE ASSEMBLIES 161886, 161887, 161888, 312475 AND 312476																				
7.	MAKE THIS CONNECTION BY (SPICE, SOLDER, AND TAPE) BLACK LEAD FROM 161887 CABLE ASSEMBLY AND BLUE LEAD FROM 312476 CABLE ASSEMBLY.																				
8.	TIE BLACK JUMPER WIRE BACK IN CABLE.																				
9.	COVER TERMINAL T-6 WITH A 155753 INSULATING SLEEVE.																				



4447WD

REVISIONS		
ISSUE	DATE	AUTH. NO.
1	11-10-61	71589
2	1-9-63	75620
3	6-15-64	82627
4	5-25-65	87056
5	10-18-65	89167
6	4-19-66	90365

APPROVALS	
D AND S	E OF M
E-NUMBER	
PROD. NO. 4447WD	

ACTUAL WIRING DIAGRAM

MODEL 28

REPERFORATOR

BASE, LRB 36, LRB 42

LRB 51

DATE:

P.D. FILE NO. 8-A65AA

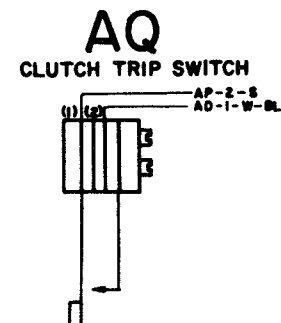
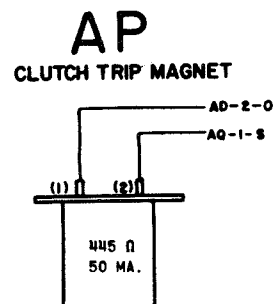
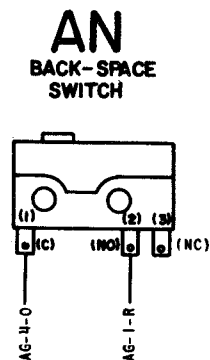
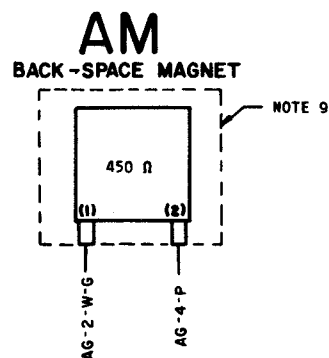
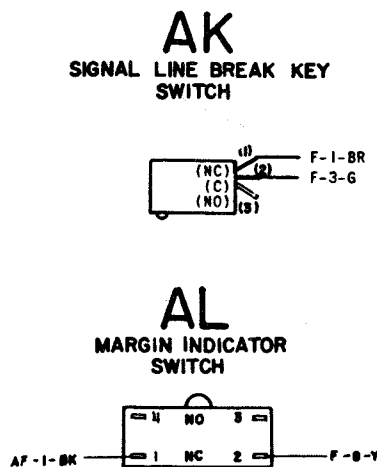
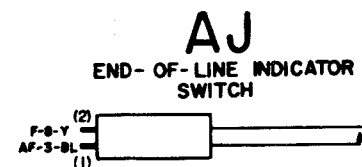
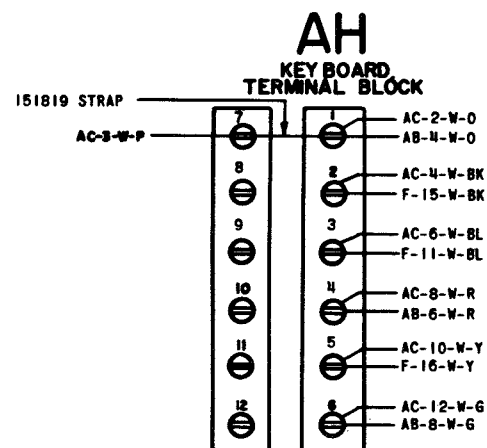
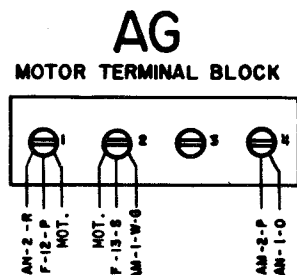
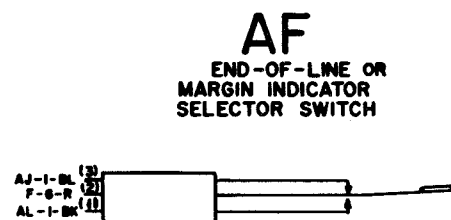
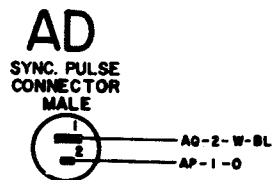
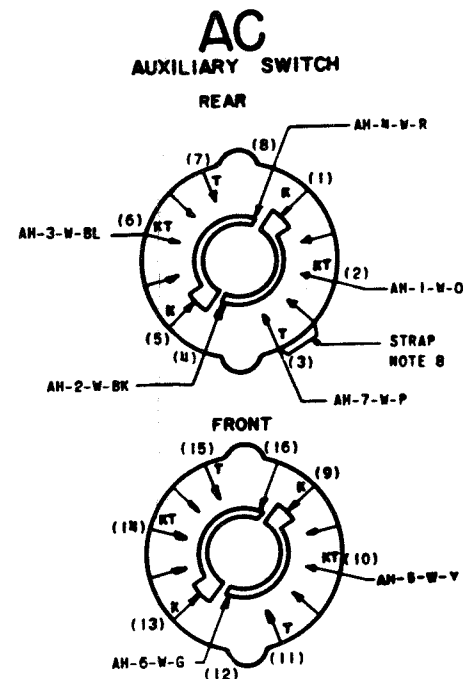
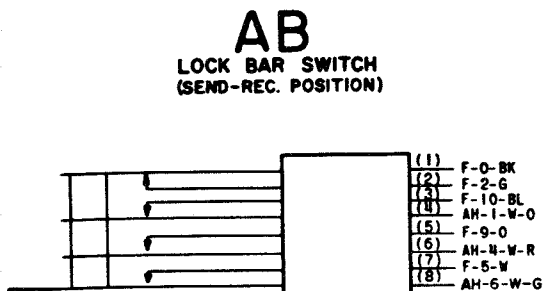
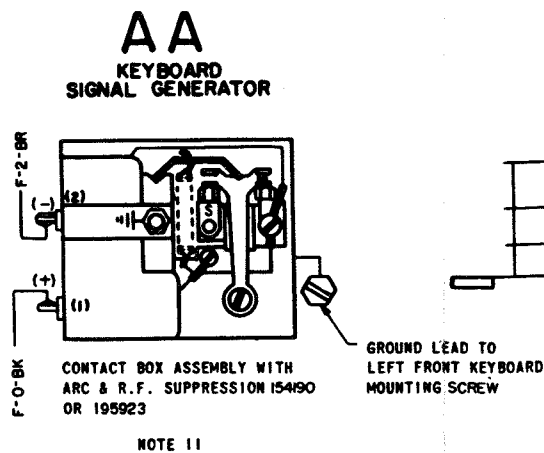
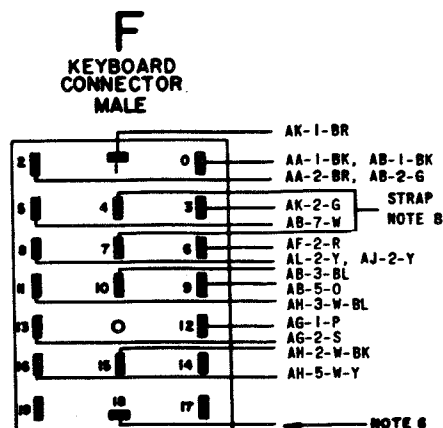
DRAWING FM CHD. 362

ENG. D.A.K. APPD. 69

TELETYPE CORPORATION

4447WD

NO.	NOTES										
1.	WIRING LEGEND: — DISTANT TERMINATING AREA — DISTANT TERMINATING DESIGNATION A-1-W-BL — WIRE COLOR CODE										
2.	COLOR CODE <table> <tr> <td>BK - BLACK</td><td>G - GREEN</td></tr> <tr> <td>BR - BROWN</td><td>BL - BLUE</td></tr> <tr> <td>R - RED</td><td>P - PURPLE</td></tr> <tr> <td>O - ORANGE</td><td>W - WHITE</td></tr> <tr> <td>Y - YELLOW</td><td>S - SLATE</td></tr> </table>	BK - BLACK	G - GREEN	BR - BROWN	BL - BLUE	R - RED	P - PURPLE	O - ORANGE	W - WHITE	Y - YELLOW	S - SLATE
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 50-60 CYCLE AC POWER INPUT.										
4.	CONNECTORS VIEWED FROM SOLDER TERMINAL ENDS.										
5.	ALL CONTACTS SHOWN IN UNOPERATED POSITION IN KEYBOARD.										
6.	SPARE TERMINAL OF F-18 RESERVED FOR POLAR OPERATION OF KEYBOARD SIGNAL GENERATOR.										
7.	ASSOCIATED CABLES: 158224 CABLE ASSEMBLY, AUXILIARY 158249 CABLE ASSEMBLY, KEYBOARD 158992 CABLE ASSEMBLY, BACKSPACE 159343 CABLE ASSEMBLY, BACKSPACE MAGNET 179362 CABLE ASSEMBLY, SYNC. PULSE										
8.	BARE WIRE STRAP 39522RM										
9.	PART OF ASSOCIATED UNIT (LPE, LPR, LRPE, OR LTPE)										
10.	UNCOIL, ROUTE, AND CONNECT 179362 CABLE TO TWO OPEN CABINET TERMINALS, TYING UP ANY SLACK										
11.	POLARITY MUST BE MAINTAINED ONLY WHEN 154190 FILTER IS USED. POLARITY MAY BE DISREGARDED WHEN 195923 FILTER IS USED.										



4927 WD

REVISIONS

ISSUE	DATE	AUTH. NO.
1	2	N-9-64
		79225-5

ACTUAL
WIRING DIAGRAM
FOR
MODEL 28
KEYBOARD BASE
LAK31

APPROVALS

D AND R	E OF M
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E-NUMBER	
PROD. NO. 4927WD	
DATE 12-15-61	
P.D. FILE NO.	
DRAWN R.L.W.	CHKD. F.G.S.
ENGD. E.F.D.	APPD. E.J.C.

TELETYPE
CORPORATION

4927 WD

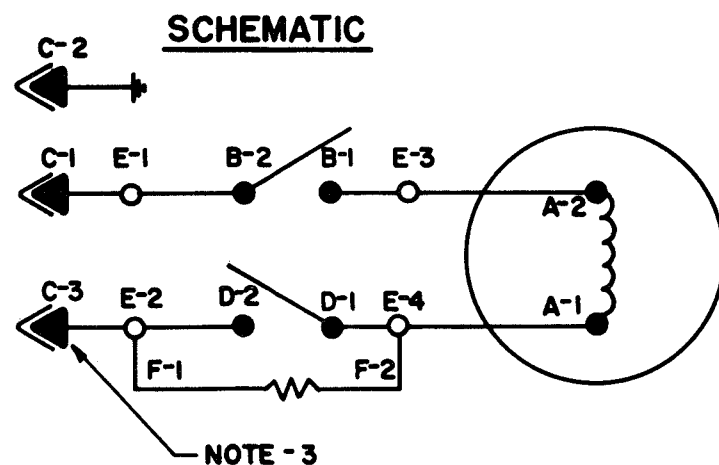
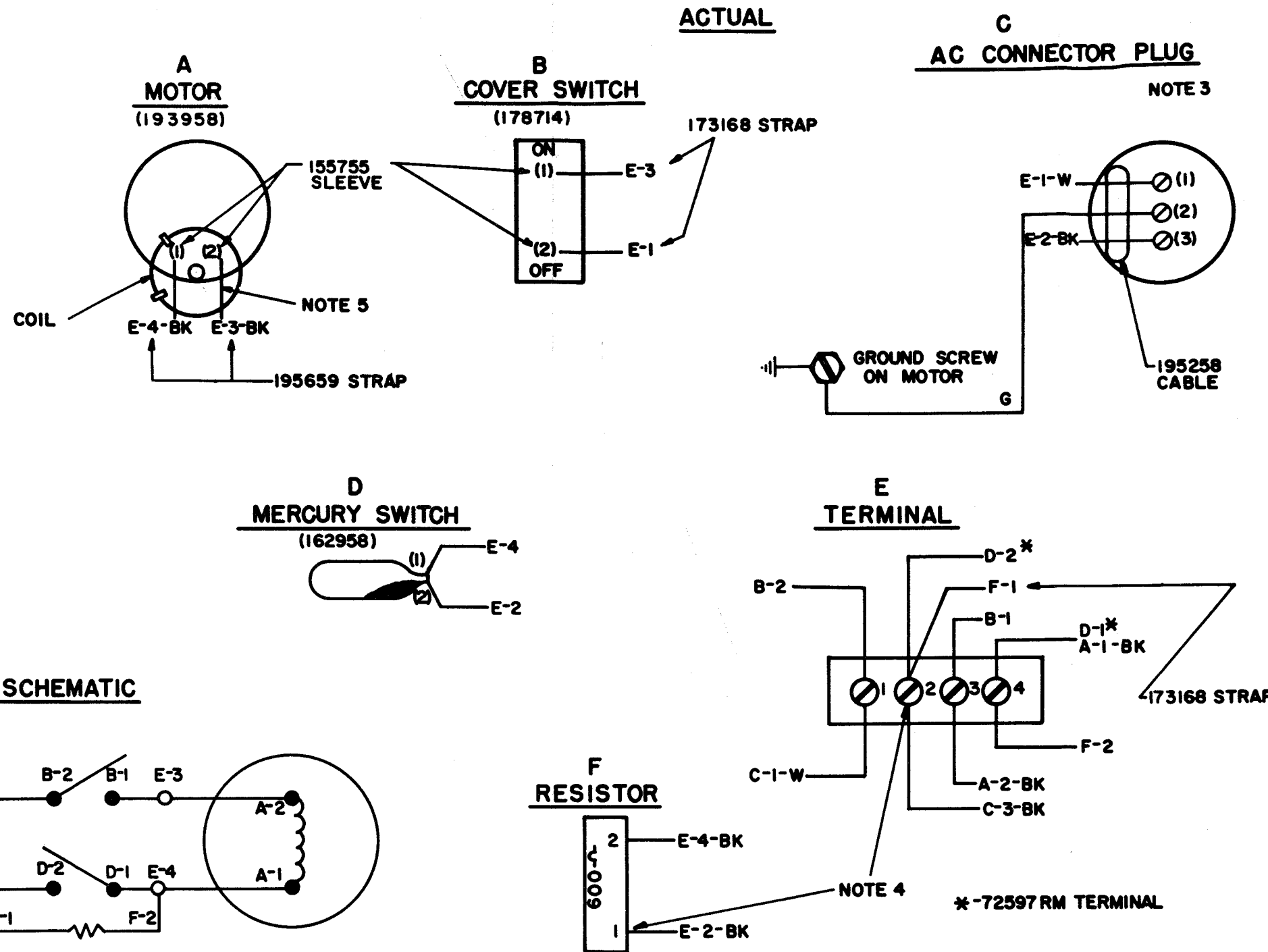
NOTES

1. **WIRING LEGEND**
 DISTANT TERM. AREA
 DISTANT TERM. DESIG.
 A-I-R WIRE COLOR CODE
2. **COLOR CODE:**
 R-RED W-WHITE BK-BLACK
3. **MATING CONNECTOR 114466 IS FURNISHED WITH UNIT. WIRING BETWEEN A.C. POWER AND 114466 IS TO BE PROVIDED IN FIELD AT INSTALLATION TIME.**
4. **REMOVE AND TAPE RESISTOR LEADS WHEN LPW300 IS OPERATED WITH MODEL 32 AND 33 PAGE PRINTERS.**
5. **MOTOR OPERATES ON 50-60 CYCLE 110 V.A.C.**
6. **THE NUMBERS ENCLOSED BY PARENTHESES ARE USED FOR REFERENCE AND ARE NOT SHOWN ON THE PART.**

5830 WD

REVISIONS

ISSUE	DATE	AUTH. NO.
2	11-8-62	75064
3	11-27-62	75207
4	1-10-63	75653
5	4-22-63	76601
6	12-23-63	77313



ACTUAL AND SCHEMATIC WIRING DIAGRAM OF LPW 300

APPROVALS

D AND R E OF M
 HGR ✓

E-NUMBER

PROD. NO. 5830 WD

DATE: 5-22-62

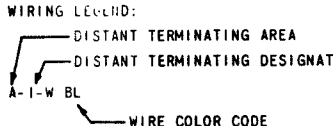
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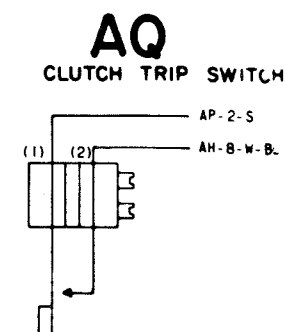
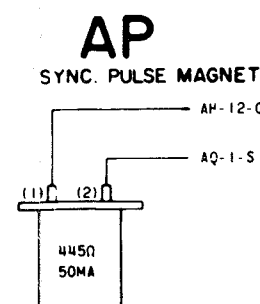
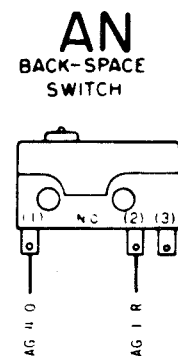
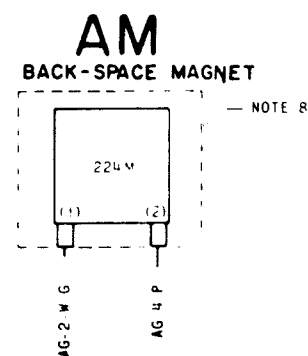
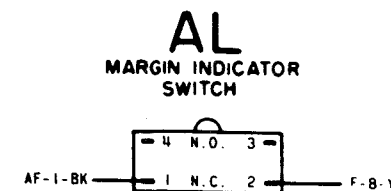
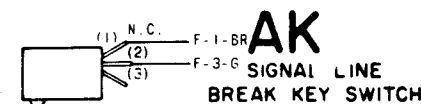
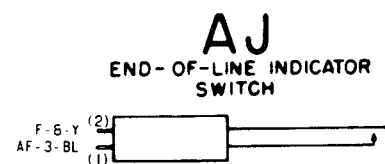
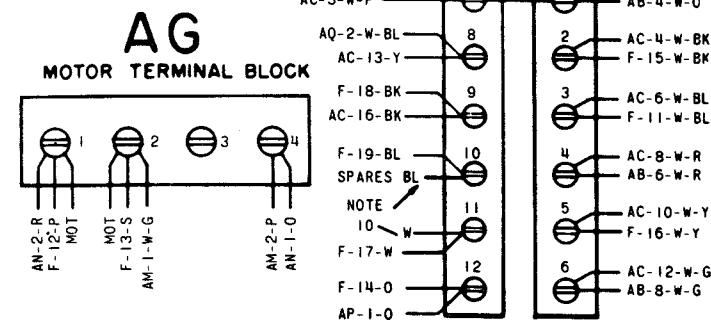
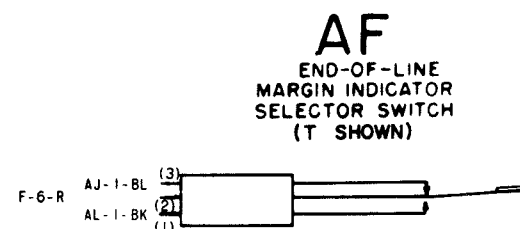
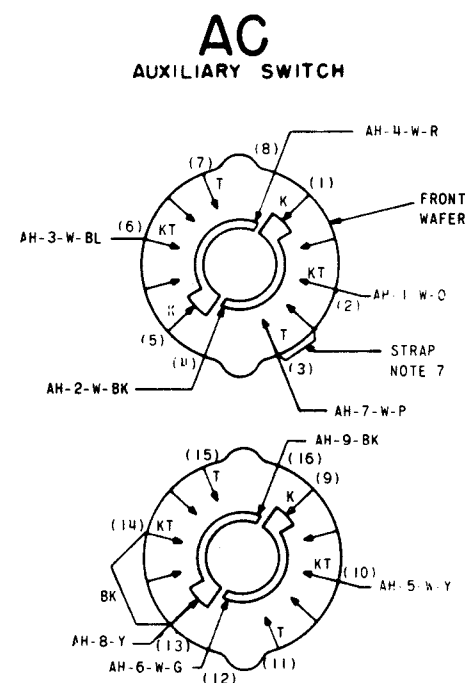
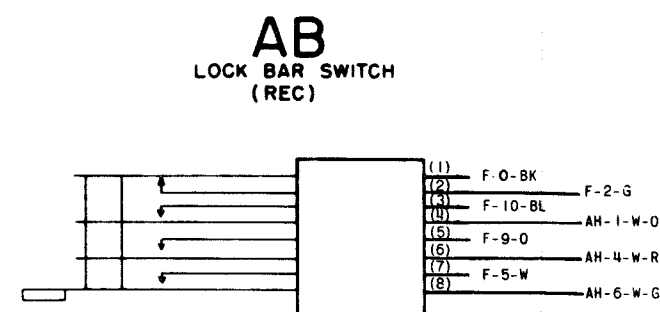
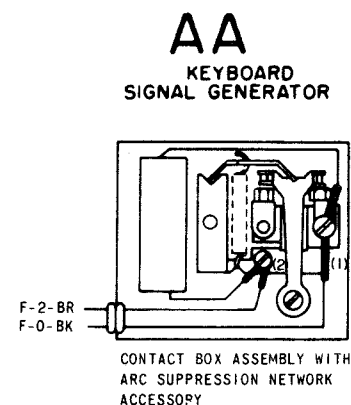
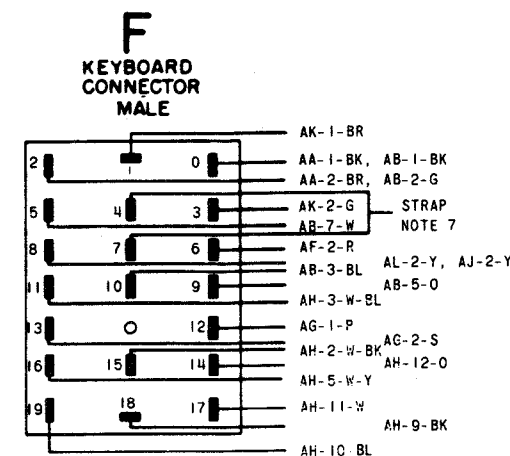
DRAWN TJM CHKD.

ENGR. JCF APPD. T.J.P.

TELETYPE CORPORATION

5830 WD

NO.	NOTES
1.	WIRING LEGEND: 
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: 198353 CABLE ASSEMBLY, AUXILIARY 198352 CABLE ASSEMBLY, KEYBOARD 155992 CABLE ASSEMBLY, BACKSPACE 159343 CABLE ASSEMBLY, BACKSPACE 198351 CABLE ASSEMBLY, SYNC. PULSE MAGNET TRIP MAGNET
7.	BARE WIRE STRAP 39522RM
8.	PART OF ASSOCIATED UNIT (LPE, LPR, LRPE, OR LTPE)
9.	FOR SCHEMATIC SEE 6460WD AND 7016WD.
10.	TAPE AND TIE BACK BLUE AND WHITE LEADS TO THE OTHER END OF 196353 CABLE ASSEMBLY.



6456 WD

REVISIONS

ISSUE	DATE	AUTH. NO.
2	11-27-63	
3	12-12-63	
4	6-15-64	82627

ACTUAL
WIRING DIAGRAM
FOR
MODEL 28
KEYBOARD BASE
LAK42 46

APPROVALS

D AND R H.J.K.	E OF M
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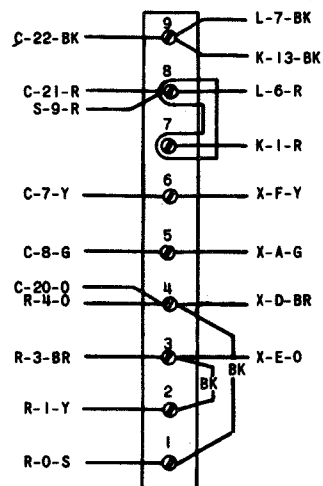
E-NUMBER	
PROD. NO.	6456WD
DATE	5-15-63
P.D. FILE NO.	49 A6544
DRAWN J D B	CHKD.
ENGD. R A F	APPD.

TELETYPE CORPORATION

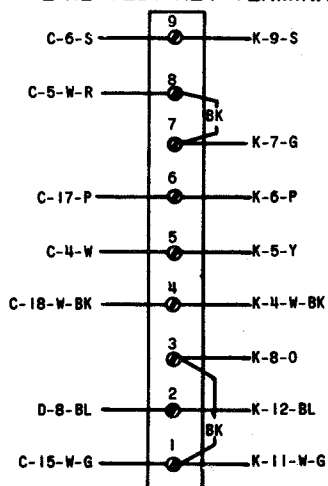
6456 WD

NO.	NOTES								
1.	WIRING LEGEND: DISTANT TERMINATING AREA DISTANT TERMINATING DESIGNATION A-1-W-BL WIRE COLOR CODE								
2.	COLOR CODE: BK - BLACK BR - BROWN BL - BLUE R - RED Y - YELLOW P - PURPLE W - WHITE S - SLATE O - ORANGE G - GREEN								
3.	UNIT WIRED FOR 117 VOLTS. 50 TO 60 CYCLE AC POWER INPUT ONLY.								
4.	CONNECTORS VIEWED FROM SOLDERED TERMINAL ENDS.								
5.	CIRCUITS SHOWN FOR .060 AMP. NEUTRAL SIGNAL LINE OPERATION. FOR .020 AMP. OPERATION REMOVE AND ADD CONNECTIONS AS TABULATED BELOW. <table><tr><th>SIG. LINE CURRENT</th><th>CONNECTION REMOVED</th><th>CONNECTIONS ADDED</th></tr><tr><td>.020 AMP.</td><td>K1-K2</td><td></td></tr></table> FOR .020 AMP. OPERATION OF SELECTOR MAGNET DRIVER, REFER TO 4445WD.			SIG. LINE CURRENT	CONNECTION REMOVED	CONNECTIONS ADDED	.020 AMP.	K1-K2	
SIG. LINE CURRENT	CONNECTION REMOVED	CONNECTIONS ADDED							
.020 AMP.	K1-K2								
6.	RECTIFIER SHOWN CONTROLLED BY POWER SWITCH. FOR CONTINUOUS OPERATION, REMOVE LEAD L-10-BK FROM TERMINAL E-2 AND CONNECT TO TERMINAL E-1.								
7.	LINE SHUNT RELAY SHOWN CONTROLLED BY POWER SWITCH AND SHUNTING LINE RELAY COIL AND KEYBOARD AND TRANSMITTER DISTRIBUTOR SIGNAL GENERATOR.								
8.	THE SPARE LEADS FROM THE TRANSMITTER DISTRIBUTOR UNIT CONNECTOR PLUG ARE TERMINATED IN THE RIGHT END OF THE ELECTRICAL SERVICE UNIT. THE SPARE LEADS FROM THE TYPING UNIT PLUG ARE TERMINATED IN THE LEFT END OF THE ELECTRICAL SERVICE UNIT.								
9.	ADD STRAP BETWEEN C10 & C11 IF SIGNAL LINE BREAK SWITCH IS NOT USED.								
10.	SPARE LEAD FROM U18 IS RESERVED FOR POLAR OPERATION OF KEYBOARD AND TRANSMITTER DISTRIBUTOR SIGNAL GENERATORS.								
11.	TERMINALS C143 TO C148 RESERVED FOR CABINET LAMP OPERATION.								
12.	TERMINALS C1 TO C3 RESERVED FOR CUSTOMER USE.								
13.	TERMINALS C121 - C122 RESERVED FOR PERFORATOR LO-TAPE SWITCH.								
14.	CONTACTS SHOWN IN UNOPERATED OR DE-ENERGIZED POSITION.								
15.	SYNC. PULSE CURRENT SHOWN SUPPLIED FROM SET RECTIFIER. TO PULSE SET EXTERNALLY REMOVE STRAPS AND CONNECT EXTERNAL SOURCE IN ACCORDANCE WITH INSTALLATION REQUIREMENTS: <table><tr><td>C124 - C131</td><td>C21 - C131</td></tr><tr><td>C125 - C142</td><td>C22 - C142</td></tr></table>			C124 - C131	C21 - C131	C125 - C142	C22 - C142		
C124 - C131	C21 - C131								
C125 - C142	C22 - C142								
16.	FOR SCHEMATIC WIRING DIAGRAM SEE 7016WD.								

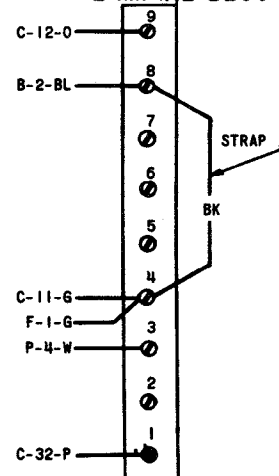
A
SELECTOR MAGNET TERMINAL BLOCK



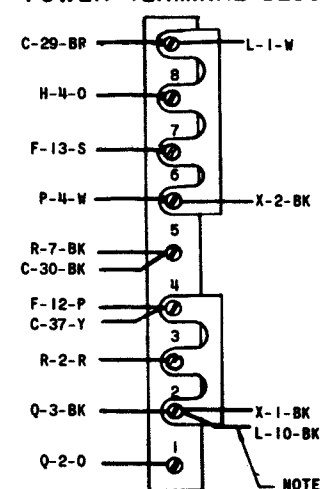
B
LINE TEST KEY TERMINAL BLOCK



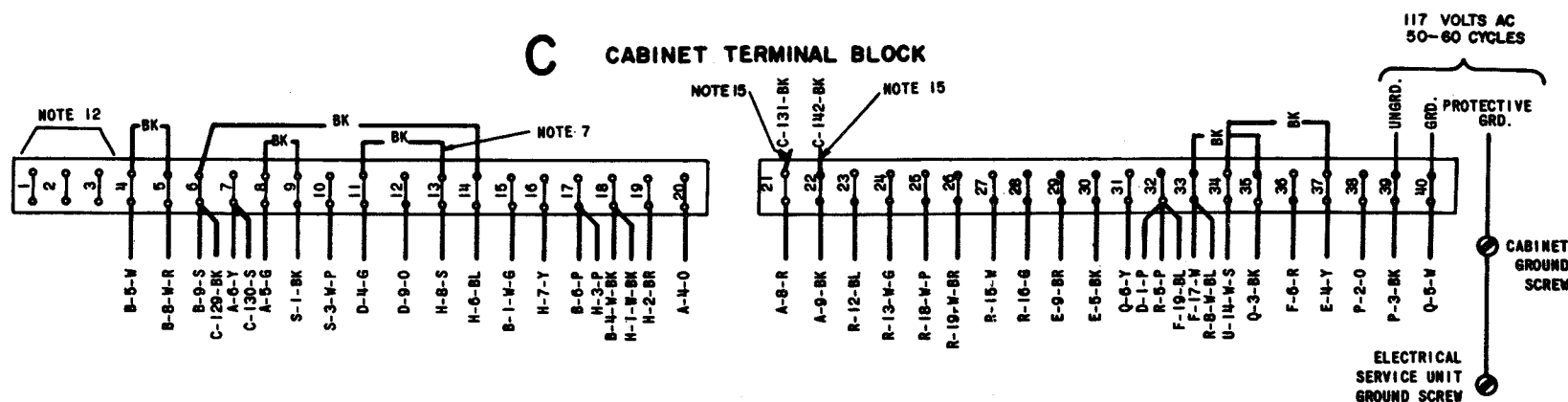
D
MOTOR CONTROL TERMINAL BLOCK



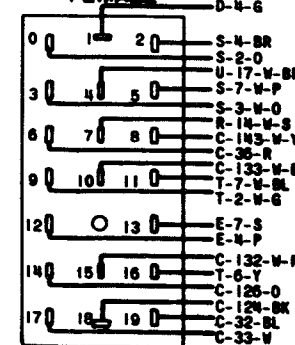
E
POWER TERMINAL BLOCK



C
CABINET TERMINAL BLOCK



F
KEYBOARD CONNECTOR FEMALE



SEE ISSUE CONTROL RECORD FOR COMPLETE LIST OF SHEETS COMPRISING THIS W.D.

SHEET 1 OF 2

ACTUAL
WIRING DIAGRAM
FOR
MODEL 28
ELECTRICAL
SERVICE UNIT
LESU111

APPROVALS

D AND R
E OF M

E-NUMBER

PROD. NO. 7015WD

DATE 8/20/63

P.D. FILE NO. 3-A65.219A

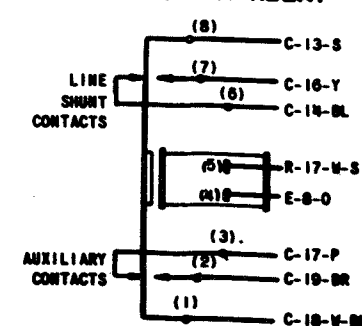
DRAWN JDB

END. RAF

TELETYPE
CORPORATION

7015WD

H
LINE SHUNT RELAY



7015 WD

REVISIONS

ISSUE	DATE	AUTH. NO.
A	1-31-64	80196
B3	2-6-64	80198
4	4-20-65	88085
5	7-29-65	88106
6	4-26-66	90882

NOTE

REVISION INFORMATION MUST ALSO BE REFLECTED ON THE ISSUE CONTROL RECORD, WHICH IS PART OF THIS W.D.

SEE ISSUE CONTROL RECORD FOR COMPLETE LIST OF SHEETS COMPRISING THIS W.D.

SHEET 2

ACTUAL
WIRING DIAGRAM
FOR
MODEL 28
ELECTRICAL
SERVICE UNIT
LESU111

APPROVALS

D AND R E OF M

E-NUMBER

PROD. NO. 7015WD

DATE 8/20/63

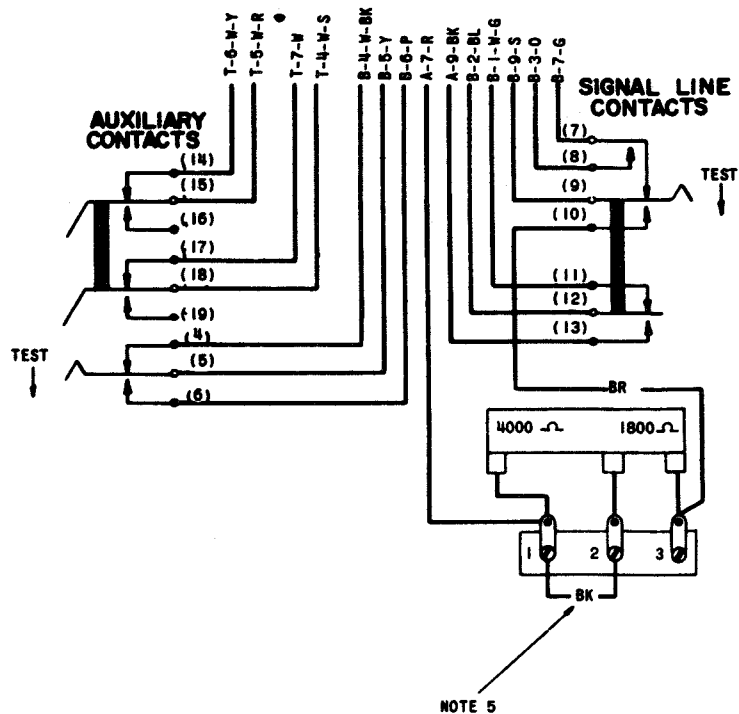
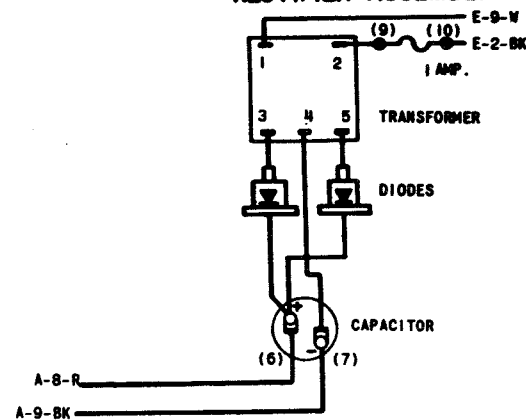
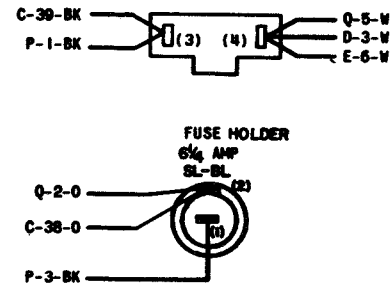
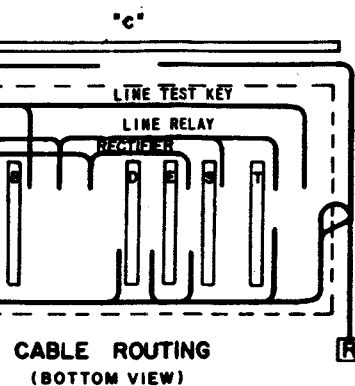
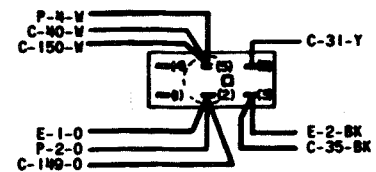
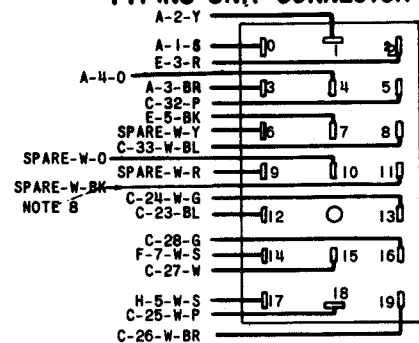
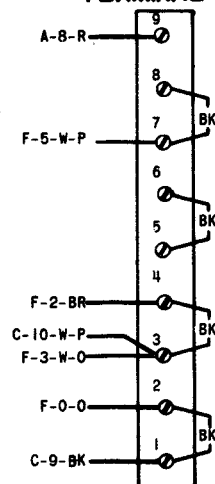
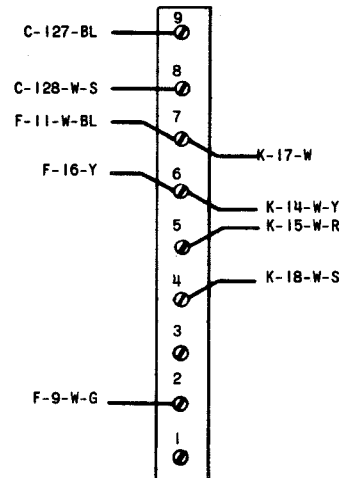
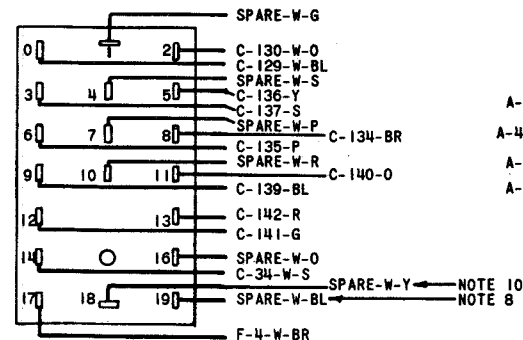
P.D. FILE NO. 3-A65.219A

DRAWN JDB CHKD.

ENGD. RAF APPD.

TELETYPE
CORPORATION

7015 WD

K
LINE TEST KEY ASSEMBLY**L**
RECTIFIER ASSEMBLY**P**
CONVENIENCE
RECEPTACLE**Q**
POWER SWITCH**R**
TYPING UNIT CONNECTOR FEMALE**S**
SLOW RELEASE RELAY
TERMINAL BLOCK**T**
SLOW RELEASE TEST KEY
TERMINAL BLOCK**U**
TRANSMITTER DISTRIBUTOR
CONNECTOR FEMALE**X**
177010
TYPING UNIT
SELECTOR MAGNET DRIVER