28 PERFORATOR TRANSMITTER BASE

WIRING DIAGRAMS

1. GENERAL

1.01 This section shows the wiring for the 28A, 28B, 28B-1, 28D, 28E, 28E-1, 28F, 28G, 28G-1, 28H, 28J, 28J-1, 28K, 28L, and 28LA perforator transmitter bases for use with 28 Automatic Send-Receive (ASR) Sets.

1.02 This section is reissued to add the 28B-1, 28E-1, and 28L perforator transmitter bases. It also includes recent engineering information and changes format.

1.03 The wiring diagrams, which are attached as a part of this publication, are listed in the wiring diagram index. The index also lists the subject matter and current issue of each diagram.

1.04 These diagrams show the origin and termination of the various leads as well as the color coding of the leads for each of the components. Notes are included on the diagrams to explain the symbols used or to point out certain special conditions that should be observed.

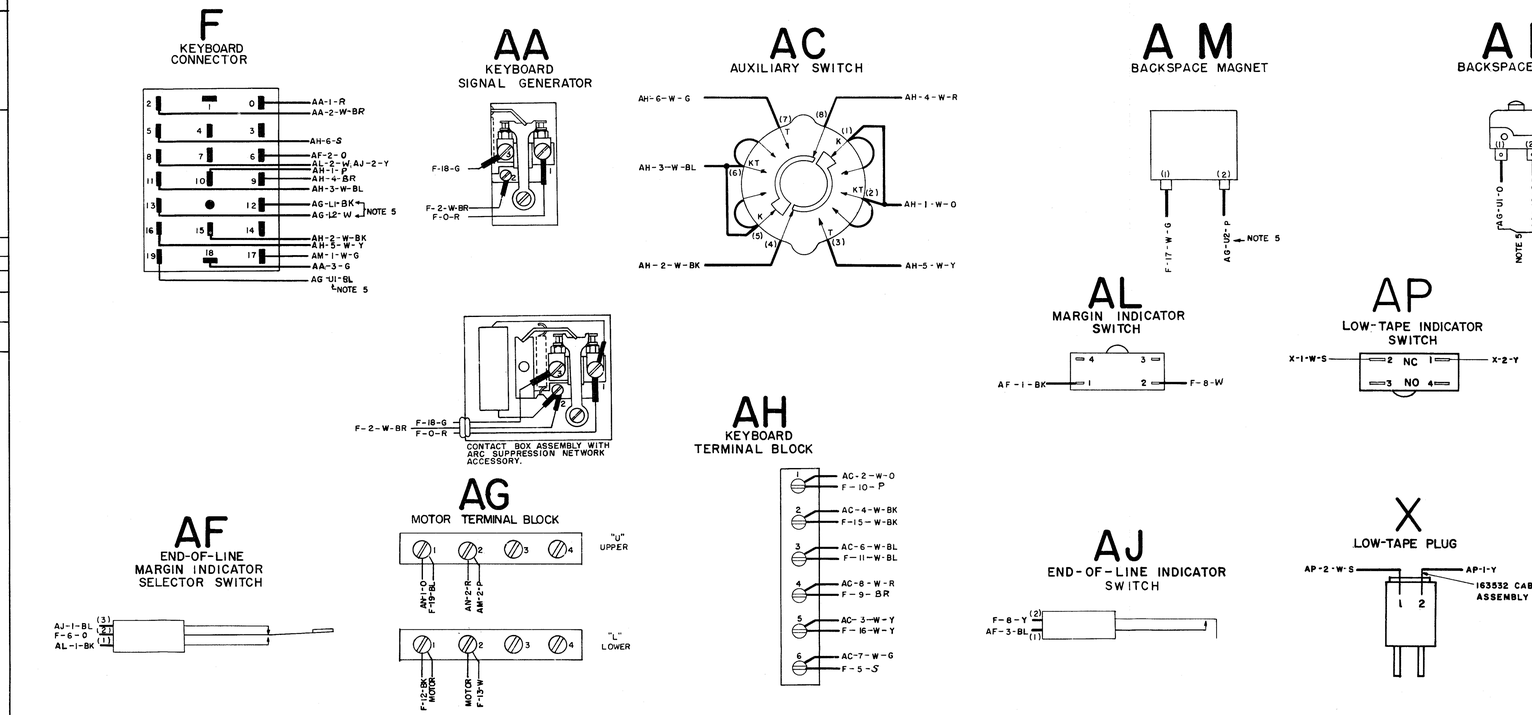
2. WIRING DIAGRAM INDEX (ATTACHMENTS)

TITLE	DIAGRAM NUMBER	SHEET NO.	WD ISSUE
Wiring Diagram for Keyboard Base LAK2 (Part of Bell 28A)	3261WD	1	6
Wiring Diagram for Keyboard Base LAK4 (Part of Bell 28B, 28D, 28E, 28F, 28K), LAK44 (Part of Bell 28B-1, 28E-1)	3302WD	1 2	17 -
Wiring Diagram for LPE2 (Part of Bell 28A)	3309WD	1	B
Schematic Wiring Diagram for LPR33 (Part of Bell 28D, 28L), LPR56 (Part of Bell 28K), LRPE 6 (Part of Bell 28F)	No Number	-	-
Wiring Diagram for Keyboard Base LAK10 (Part of Bell 28G, 28G-1), LAK40 (Part of Bell 28J-1)	3673WD	1	E
Wiring Diagram and Schematic Wiring Diagram for LPE3 (Part of Bell 28G, 28J, 28J-1), LTPE4 (Part of Bell 28G-1)	No Number	-	-
Wiring Diagram for LARP801 (Part of Bell 28LA)	4136WD	1	D
Schematic Wiring Diagram for LARP801 (Part of Bell 28LA)	No Number	-	-
Wiring Diagram for LAK20 (Part of Bell 28LA)	4213WD	1	G

Prepared for American Telephone and Telegraph Company
by Teletype Corporation
Printed in U.S.A.

TITLE	DIAGRAM NUMBER	SHEET NO.	WD ISSUE
Wiring Diagram for Keyboard Base LAK27 (Part of Bell 28H), LPE4 (Part of Bell 28H)	4338WD	1	4
Wiring Diagram for Keyboard Base LAK39 (Bell 28J)	4915WD	1	6
Wiring Diagram for Keyboard Base LAK49 (Bell 28L)	7765WD	1	3

NO.	NOTES
1.	WIRING LEGEND: A-1-W-BL — DISTANT TERMINATING AREA; DISTANT TERMINAL DESIGNATION; WIRE COLOR CODE
2.	COLOR CODE: BK — BLACK; BR — BROWN; R — RED; O — ORANGE; Y — YELLOW; G — GREEN; BL — BLUE; P — PURPLE; W — WHITE; S — SLATE; 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-P — WHITE-PURPLE; W-S — WHITE-SLATE
3.	CONNECTORS VIEWED FROM SOLDER TERMINAL ENDS.
4.	ALL CONTACTS SHOWN IN UNOPERATED POSITION IN KEYBOARD.
5.	"U" DESIGNATES UPPER TERMINAL BLOCK; "L" DESIGNATES LOWER TERMINAL BLOCK FOR AREA "AG"
6.	ASSOCIATED SCHEMATIC WIRING DIAGRAM 3289WD



3261 WD

REVISIONS

ISSUE	DATE	AUTH. NO.
2	9-3-57	TP-2300
3	3-21-58	28-8622
4	10-22-58	28-9978
5	5-1-63	76607
6	1-20-65	85616

APPROVALS

D AND R: [signature] E OF M: [signature]

E-NUMBER

PROD. NO. 3261WD

ACTUAL WIRING DIAGRAM KEYBOARD BASE LAK-2 ASR-SF LESU 11

DATE: 1-18-57

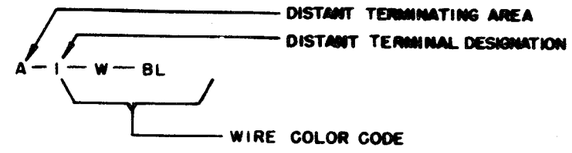
P.D. FILE NO. 1-76.65AA

DRAWN: R.W.D. CHKD.

ENGD. J.L. APPD. [signature]

TELETYPE CORPORATION

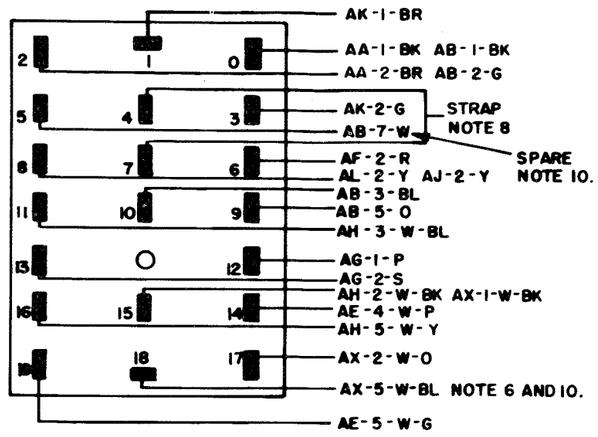
3261 WD

NO	NOTES
1.	WIRING LEGEND 
2.	COLOR CODES. BK — BLACK BR — BROWN R — RED O — ORANGE Y — YELLOW G — GREEN BL — BLUE P — PURPLE W — WHITE S — SLATE 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-P — WHITE - PURPLE W-S — WHITE - 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.

ET:108147
TC255(8-54)

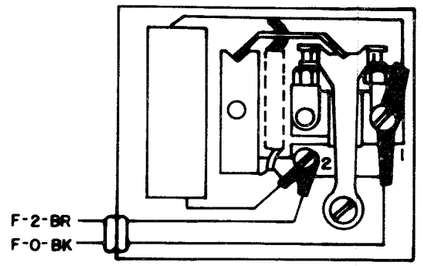
F

KEYBOARD
CONNECTOR
MALE



AA

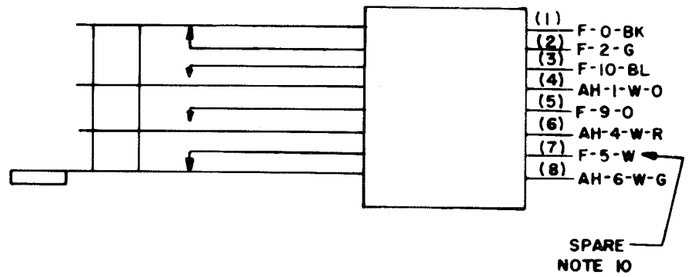
KEYBOARD
SIGNAL GENERATOR



CONTACT BOX ASSEMBLY WITH ARC SUPPRESSION NETWORK ACCESSORY.

AB

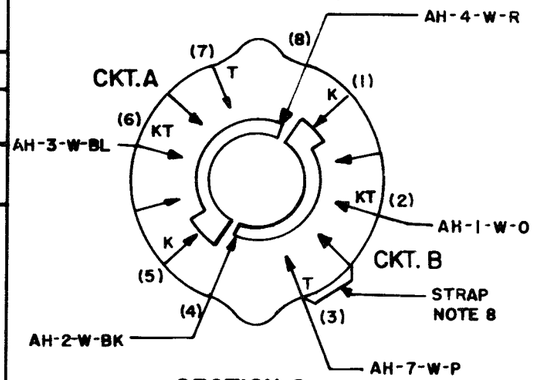
LOCK BAR SWITCH



AC

AUXILIARY SWITCH

SECTION 1



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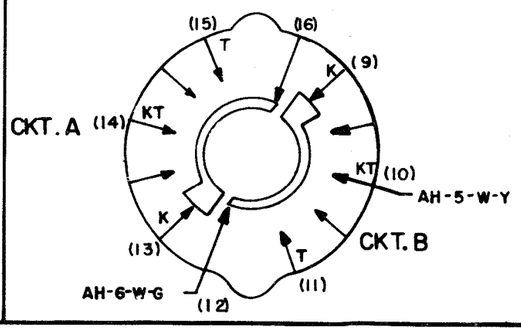
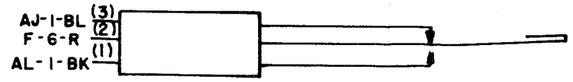


AF

END-OF-LINE
MARGIN INDICATOR
SELECTOR SWITCH



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	28-12984
10	8-24-60	28-13760
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-SP-OPT I
ASR-GP-OPT II
LESU 13, 15, 16, 25, 28, 36, 112.

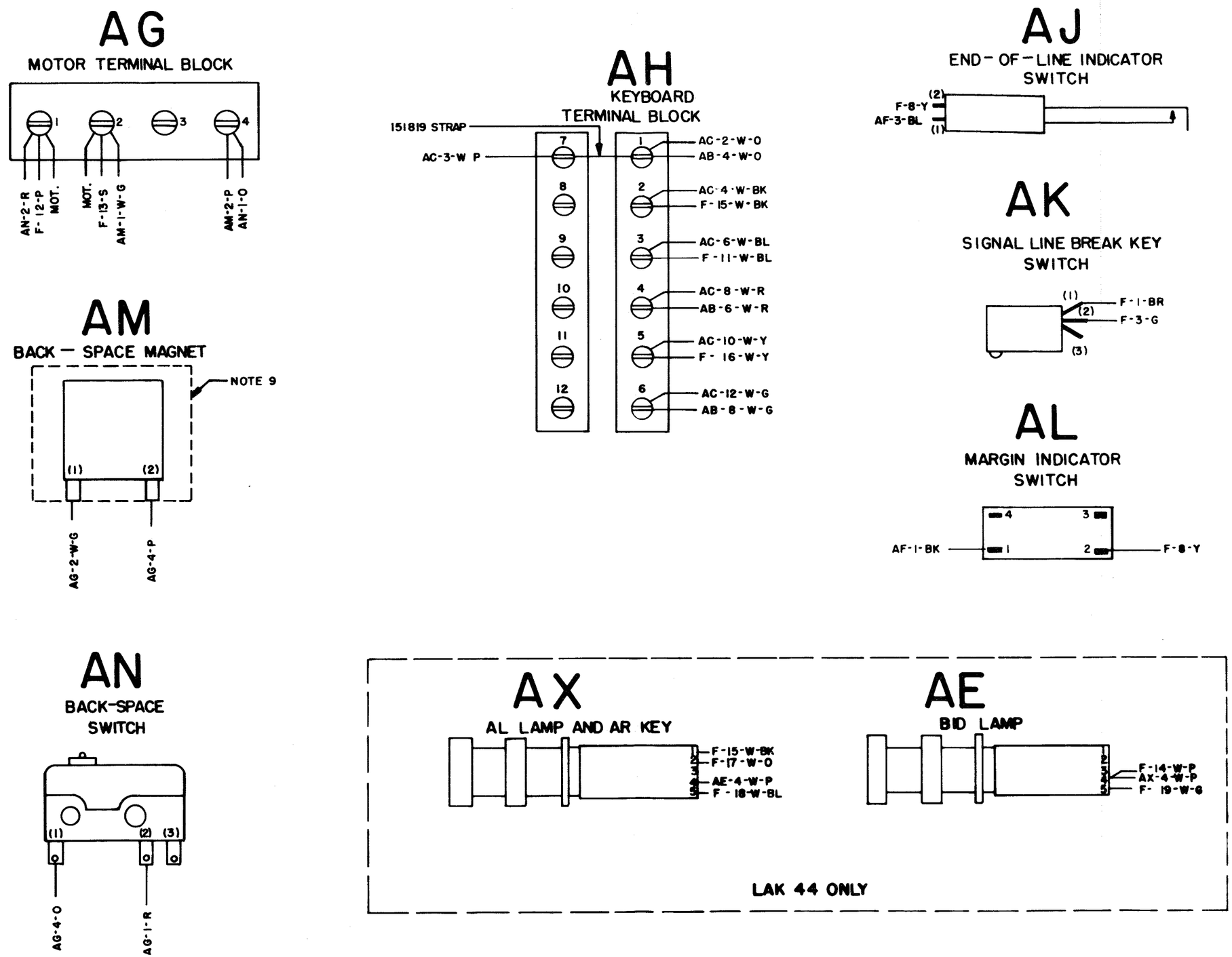
APPROVALS	
D AND R	E OF M
E-NUMBER	
PROD. NO. 3302 WD	
DATE 10-23-56	
P.D. FILE NO 27A.65AA	
DRAWN R.T.S.	CHKD
ENGD O.P.L.	APPD

TELETYPE CORPORATION

3302 WD

17

ET:131481



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 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

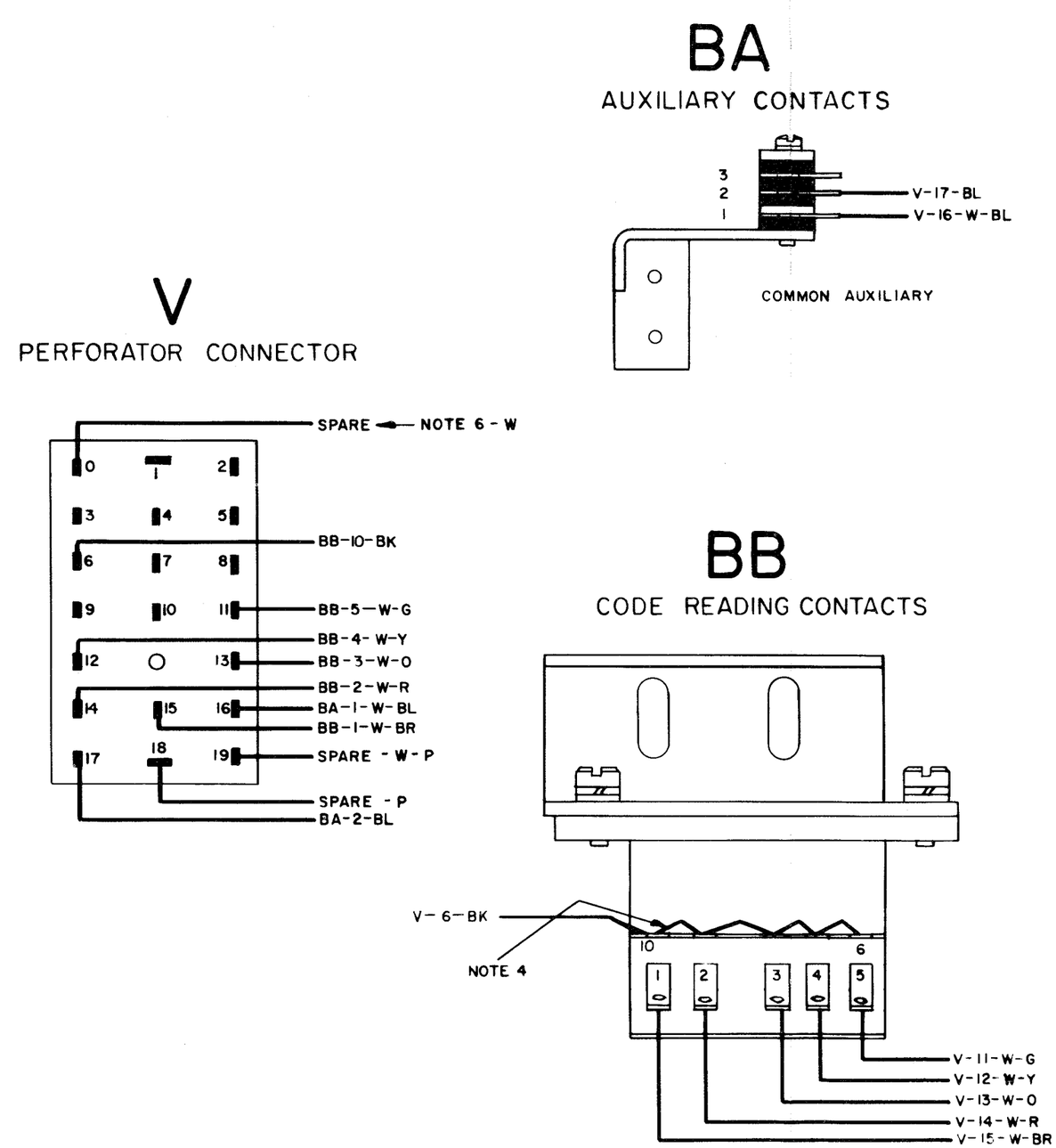
1

3302 WD

ET-131481

ET108147
TC255(6-54)

1	WIRING LEGEND: A-1-W-BL A — DISTANT TERMINATING AREA 1 — DISTANT TERMINAL DESIGNATION W-BL — WIRE COLOR CODE
2	COLOR CODE: 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	CONNECTOR VIEWED FROM SOLDER TERMINAL SIDE.
4	CODE READING CONTACTS ARE STRAPPED WITH 39603RM COPPER WIRE.
5	ASSOCIATED CABLE 158257
6	SPARE LEADS ARE TERMINATED AT THE AUXILIARY CONTACTS, AND ARE RESERVED FOR UNIVERSAL CONTACT ASSEMBLY.



3309 WD

ISSUE	DATE	AUTH. NO.
A	3-13-59	28-1087
B	10-3-61	71118

ACTUAL WIRING DIAGRAM LPE-2 CODE READING CONTACT ASSEM.

APPROVALS

D AND R | E OF M

E-NUMBER

PROD. NO. 3309WD

DATE: 3-25-56

P.D. FILE NO. 24-A65AA

DRAWN. R.W.D. | CHKD.

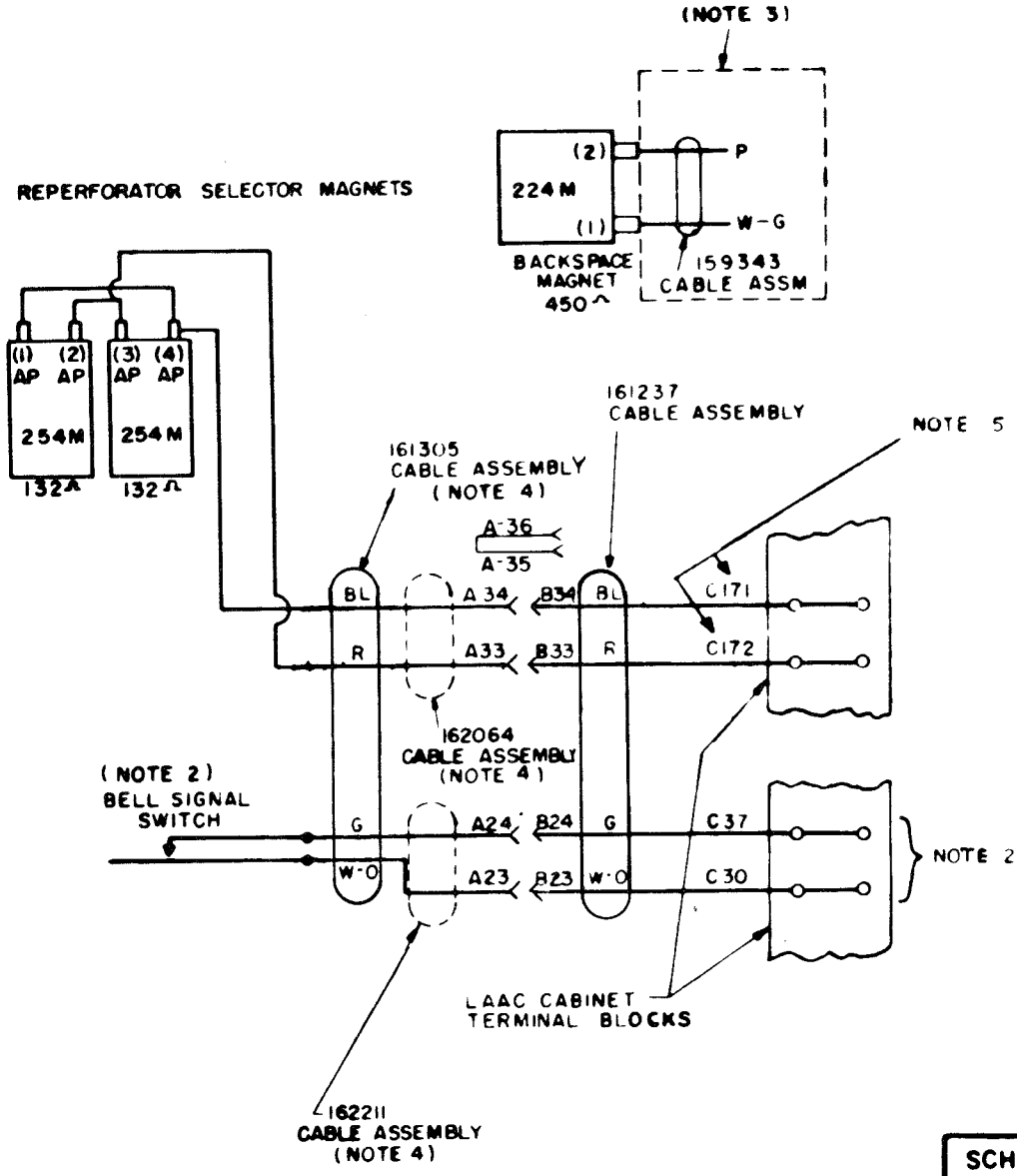
ENGD. J.M. | APPD.

TELETYPE CORPORATION

3309 WD

ET-131481

ET108147
TC255(6-54)



SCHEMATIC WIRING DIAGRAM–LPR 10,33 36,51,77 AND LRPE 6

NOTES:

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

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

2. BELL SIGNAL SWITCH NOT USED ON LRPE6. TIE BACK W-O AND G WIRES ALONG CABLE 161237 WHEN USED WITH LRPE 6

3. PART OF LAK 4 & LAK 18

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

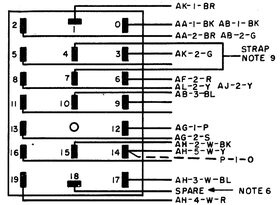
5. WHEN THESE TERMINALS ARE NOT AVAILABLE, THE 159396 MODIFICATION KIT TO ADD TERMINALS C-151 TO C-180, MAY BE ORDERED.

NO.	NOTES.
1.	WIRING LEGEND: A-1-W-BL — A: DISTANT TERMINATING AREA; 1: DISTANT TERMINAL DESIGNATION; W-BL: WIRE COLOR CODE.
2.	COLOR CODE: BK—BLACK, BR—BROWN, R—RED, O—ORANGE, Y—YELLOW, G—GREEN, BL—BLUE, P—PURPLE, W—WHITE, S—SLATE; 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-P—WHITE—PURPLE, W-S—WHITE—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.
7.	

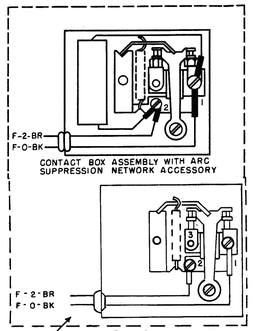
LAK NUMBER	ARC SUPPRESSION NETWORK 154166	R.F. NETWORK 154190	TIME DELAY MECH. 154142	PAPER FEED OUT MECH 154147	LINE BREAK MECH. 154141
10	X	—	—	—	X
30	—	—	—	—	X
40	—	—	—	X	X

8.	ASSOCIATED CABLES. 162572 CABLE ASSEMBLY, AUXILIARY. 162571 CABLE ASSEMBLY, KEYBOARD.
9.	BARE WIRE STRAP 39522 RM.
10.	FOR LAK 40 ADD DASHED CONNECTIONS (— — —) AND OMIT CONNECTIONS MARKED (—X—X—) IN MOTOR POWER CIRCUITS.

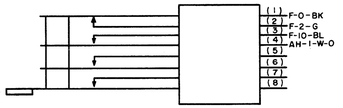
F
KEYBOARD CONNECTOR MALE



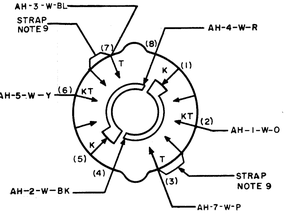
AA
KEYBOARD SIGNAL GENERATOR



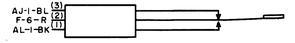
AB
LOCK BAR SWITCH



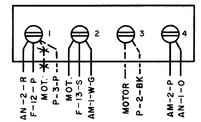
AC
AUXILIARY SWITCH



AF
END-OF-LINE MARGIN INDICATOR SELECTOR SWITCH

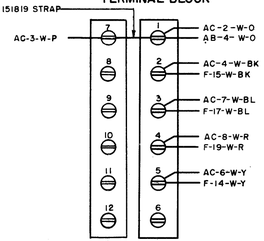


AG
MOTOR TERMINAL BLOCK

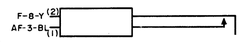


(SEE NOTE 10)

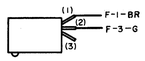
AH
KEYBOARD TERMINAL BLOCK



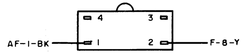
AJ
END-OF-LINE INDICATOR SWITCH



AK
SIGNAL LINE BREAK KEY SWITCH



AL
MARGIN INDICATOR SWITCH



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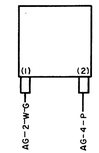
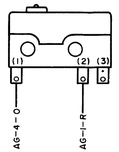
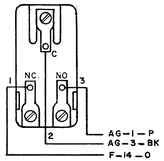


AN
BACK SPACE SWITCH



P
LOCAL PAPER FEED OUT MOTOR START SWITCH



3673 WD		
REVISIONS		
ISSUE	DATE	AUTH. NO.
A	6-9-59	28-11273
B	3-30-60	28-12924
C	4-6-62	73026
D	7-31-63	77270
E	1-29-64	79231

APPROVALS
D. A. [illegible] 1-29-64
E. M. [illegible]
PRODN. ENG.

ACTUAL WIRING DIAGRAM MODEL 28 KEYBOARD BASE LAK-10 (81 DI SYSTEM LESU 33) LAK-30 LAK-40

DATE: 1-29-59	
P.D. FILE NO. 1-A 115AA	
DRAWN R.W.V.	CHKD.
ENGD. G.P.L.	APPD.

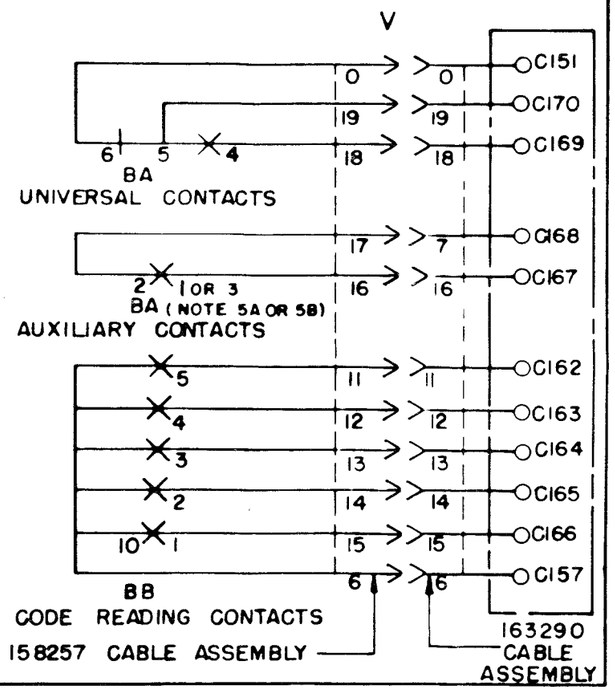
TELETYPE CORPORATION

3673 WD

NO	NOTES
1	WIRING LEGEND A-1-W BL DISTANT TERMINATING AREA DISTANT TERMINAL DESIGNATION WIRE COLOR CODE
2	COLOR CODE BK — BLACK BL — BLUE P — PURPLE W — WHITE 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-P — WHITE-PURPLE
3.	CONNECTOR VIEWED FROM SOLDER TERMINAL SIDE.
4	CODE READING CONTACTS ARE STRAPPED WITH 39603RM COPPER WIRE.
5	A. WHEN THE AUXILIARY CONTACTS ARE OPERATED FROM A DOUBLE FUNCTION CAM, THE CONTACTS FARTHEST FROM THE MOUNTING BRACKET ARE NORMALLY CLOSED. B. WHEN THE AUXILIARY CONTACTS ARE OPERATED FROM A SINGLE FUNCTION CAM, THE CONTACTS NEAREST THE MOUNTING BRACKET ARE NORMALLY CLOSED.

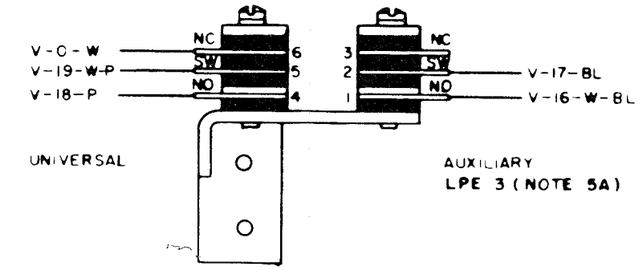
SCHEMATIC

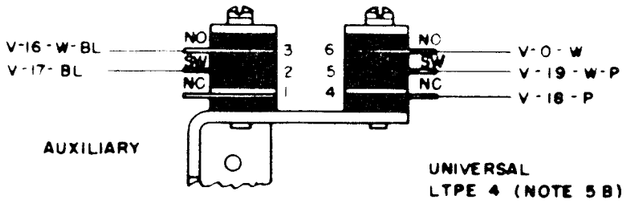
SHOWING INTERCONNECTION TO C TERMINALS IN CABINET



BA

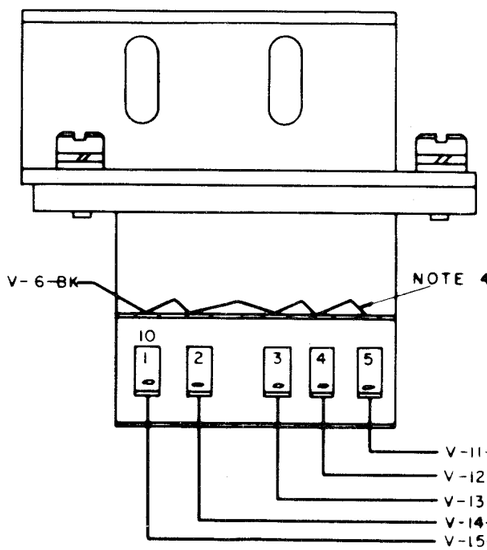
UNIVERSAL & AUXILIARY CONTACTS





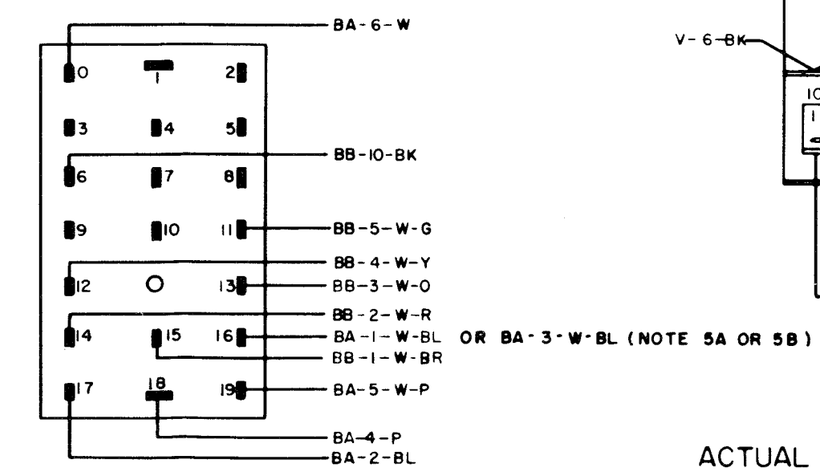
BB

CODE READING CONTACTS



V

PERFORATOR CONNECTOR (PLUG)

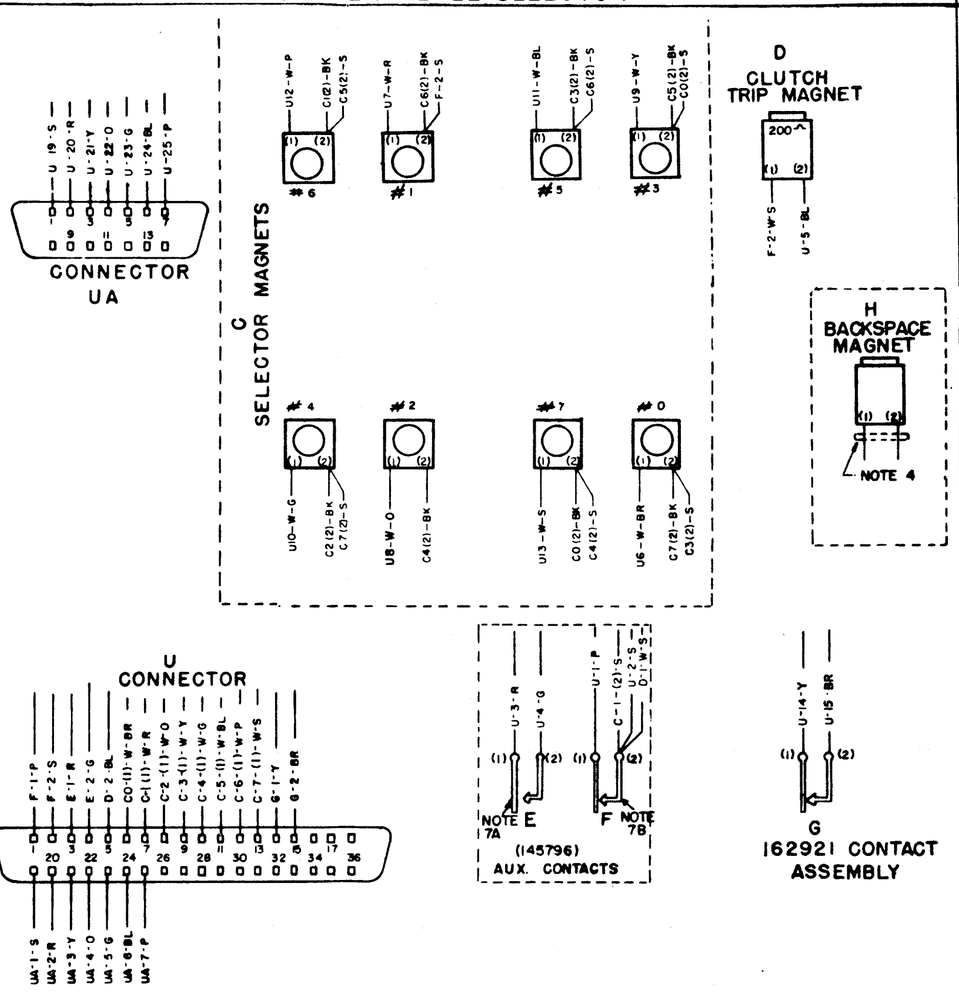


ACTUAL

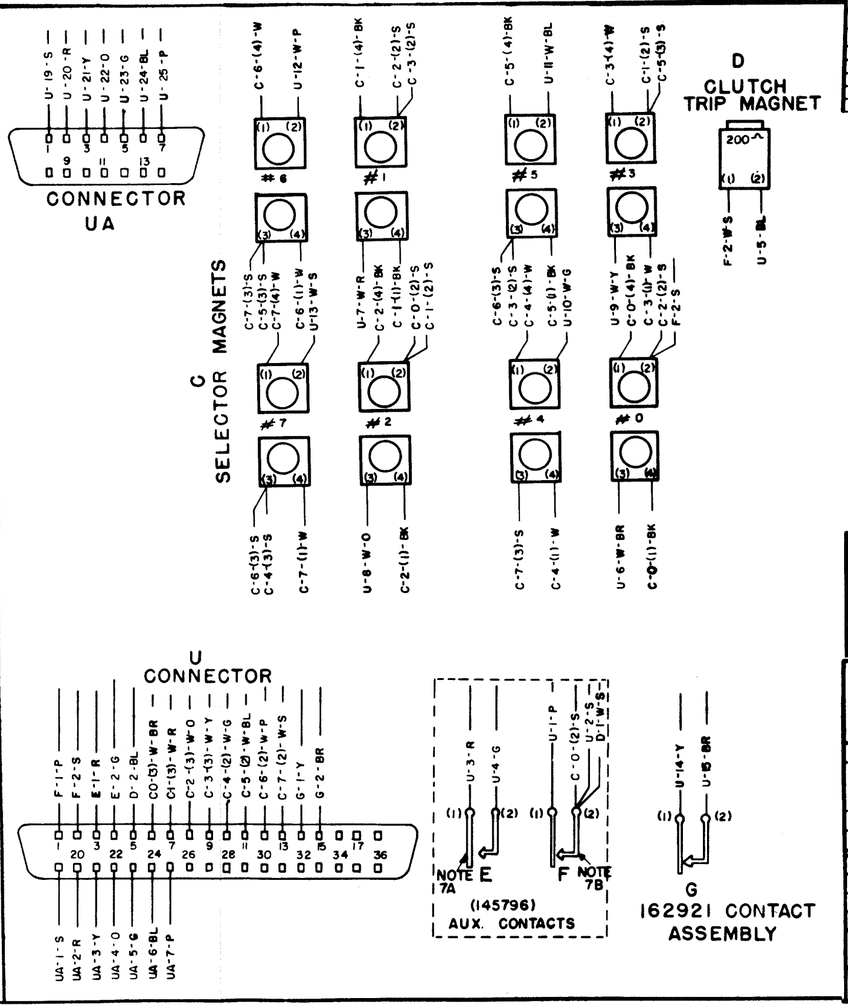
WIRING DIAGRAMS
LTPE 4
LPE 3
CODE READING, UNIVERSAL AND AUXILIARY CONTACT ASSEMBLIES

NO.	NOTES
1.	WIRING LEGEND VA-7-S DISTANT TERMINATING AREA DISTANT TERMINATING DESIGNATION WIRE COLOR CODE
2.	COLOR CODE: BK - BLACK, BR - BROWN, R - RED, O - ORANGE, Y - YELLOW, BL - BLUE, S - SLATE, P - PURPLE, W - WHITE (W-PREFIX INDICATES WHITE TRACER)
3.	LARP801 COMPATIBLE WITH LAK20 ONLY
4.	159343 CABLE ASSEMBLY (PART OF LAK20)
5.	ALL CONNECTORS VIEWED FROM SOLDER END.
6.	FOR SCHEMATIC WIRING SEE 4137 WD.
7.	A. REAR CONTACT ASSEMBLY B. FRONT CONTACT ASSEMBLY

LARP WITH ONE COIL PER LEVEL SELECTOR



LARP WITH TWO COILS PER LEVEL SELECTOR



4136 WD		
ISSUE	DATE	AUTH NO
B	12-5-60	DA-223
C	5-2-61	69516
D	4-30-64	79883

ACTUAL WIRING DIAGRAM LARP 801

APPROVALS

D AND R | E OF M

E. NUMBER

PROD NO. 4136 WD

DATE

PD FILE NO 16-35.65AA

DRAWN E.R. CHKD

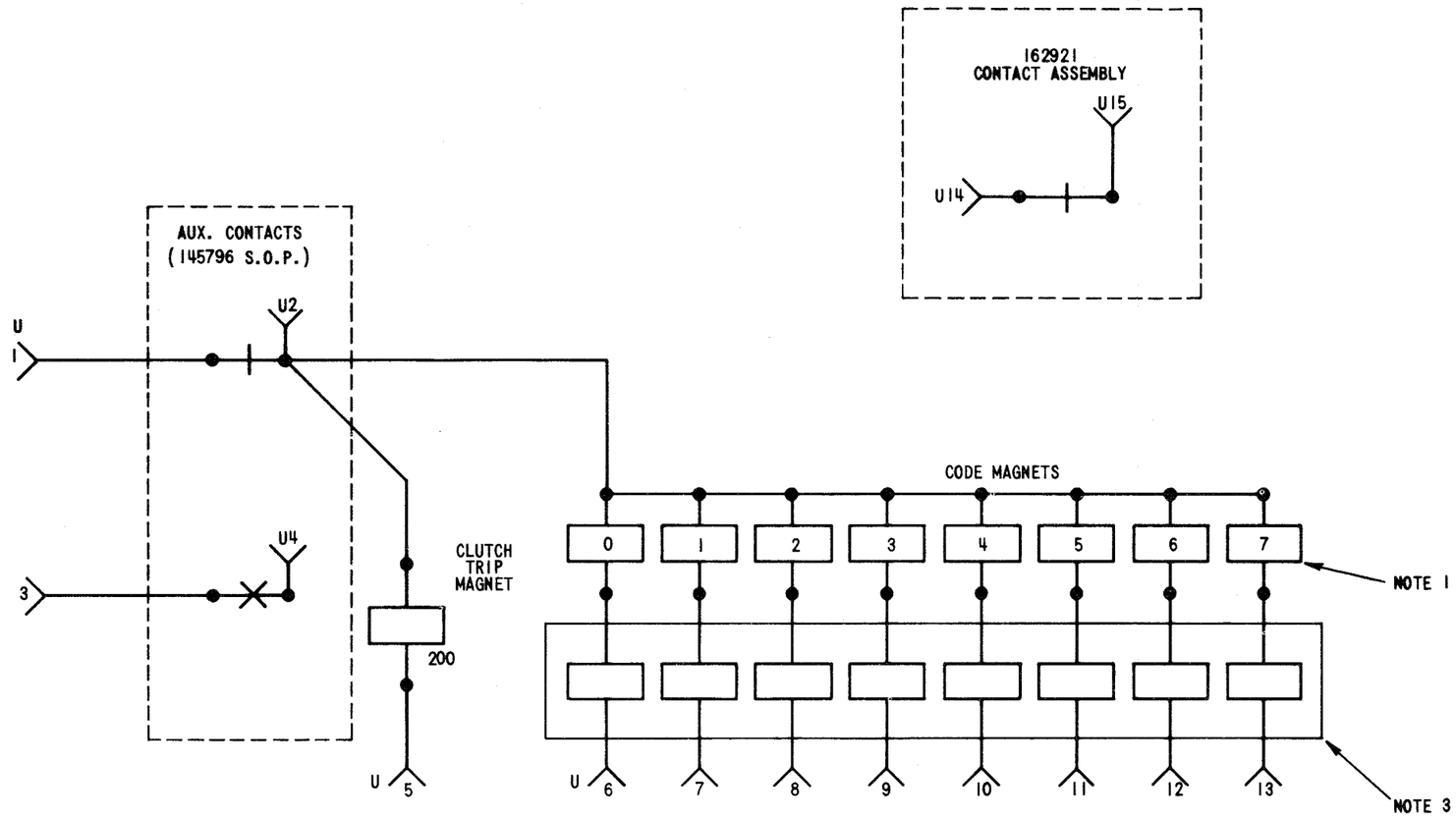
ENGD T.J.T. APPD

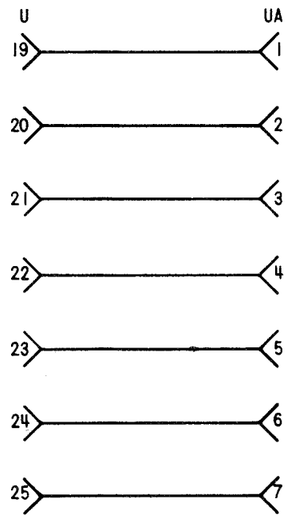
TELETYPE CORPORATION

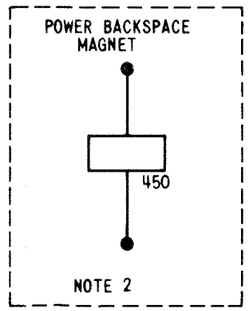
4136 WD

ET-131601

NO.	NOTES
1.	SELECTOR MAGNET RESISTANCE 340 OHMS TOTAL PER CODE LEVEL.
2.	WIRING PROVIDED FOR IN THE LAK20.
3.	THESE COILS ARE OMITTED ON UNITS EQUIPPED WITH A 194143 SELECTOR ASSEMBLY.

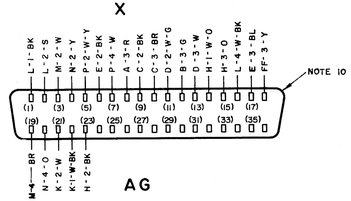


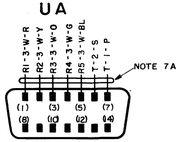


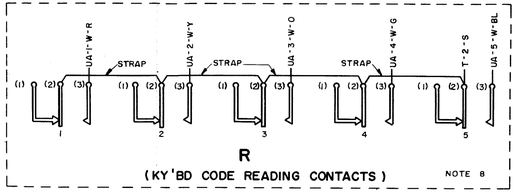


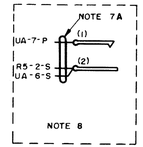
SCHEMATIC
WIRING DIAGRAM
LARP8 01

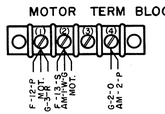
NO.	NOTES
1.	155992 CABLE ASSEMBLY (BACK SPACE)
2.	OPTIONAL FEATURE (NOT PART OF LAK 20) SPARE LEADS TO BE SPLICED, SOLDERED, TAPED, & TIED BACK.
3.	PART OF ASSOCIATED UNIT LARP 801
4.	BARE WIRE STRAP 39522 RM
5.	SPARE-RESERVED FOR POLAR OPERATION.
6.	KEYBOARD CONNECTOR PART OF THE 144995 CABLE ASSEMBLY.
7.	AJ 144744 CABLE ASSEMBLY
8.	CONTACTS SHOWN IN STOP POSITION.
9.	AUX. VIEW TO SHOW LOCATION OF SOLDER TERMINALS ON THE UNDERSIDE OF THE 144702 SWITCH (L-M-N-P).
10.	PART OF THE 144741 CABLE ASSEMBLY.
11.	159343 CABLE ASSEMBLY.

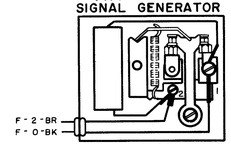




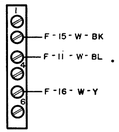


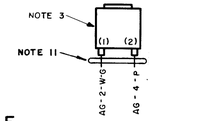


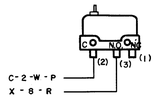




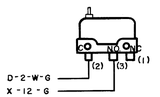
CONTACT BOX ASSEMBLY WITH ARC SUPRESSION NETWORK ACCESSORY.



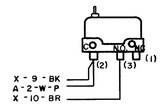




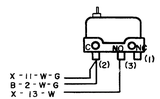
A (SOM-KEY) (NOTE 10)



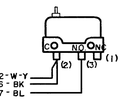
B (EOA-KEY) (NOTE 10)



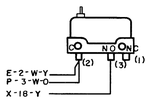
C (EOM-KEY)



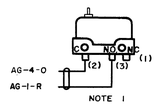
D (ID KEY-SPARE) (NOTE 2)



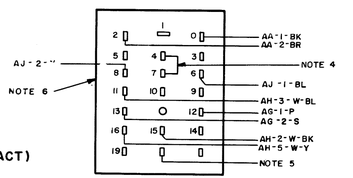
E (FEED OUT-KEY) (NOTE 10)

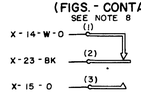


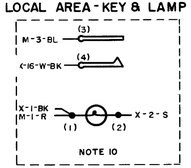
FF (RUB OUT-KEY) (NOTE 10)

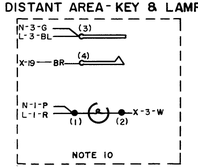


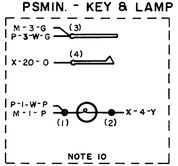
G (TAPE B. SP.-KEY)

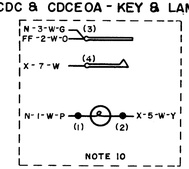


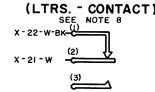












4213WD REVISIONS		
ISSUE	DATE	AUTH. NO.
D	3-30-61	DA-519
E	4-11-61	DA-540
F	6-22-61	70087
G	10-5-61	71174

ACTUAL WIRING DIAGRAM KEYBOARD, MODEL 28 LAK 20

APPROVALS

D AND R	E OF M

E. NUMBER :

PROD NO. : 4213WD

DATE : 4-4-60

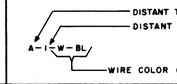
P.O. FILE NO. : 16-35.650

DRAWN: E.R CHKD.:

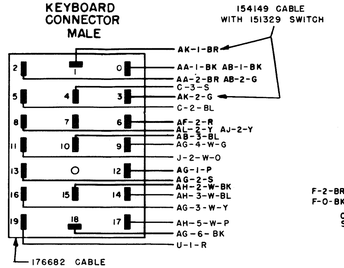
ENGD.: T.J.T. APPD.:

TELETYPE CORPORATION

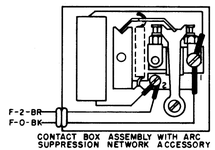
4213WD

NO	NOTES
1.	WIRING LEGEND: 
2.	COLOR CODE: BK — BLACK BR — BROWN R — RED O — ORANGE Y — YELLOW G — GREEN BL — BLUE P — PURPLE W — WHITE S — SLATE 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-P — WHITE — PURPLE W-S — WHITE — SLATE
3.	UNIT WIRED FOR 115 VOLTS AC OR DC POWER INPUT.
4.	PLUGS VIEWFD FROM SOLDER TERMINAL ENDS.
5.	ALL CONTACTS SHOWN IN UNOPERATED POSITION IN KEYBOARD.
6.	
7.	ASSOCIATED CABLES. 154149 (PART OF 176682) , 155992, 158224, 176682
8.	BARE WIRE STRAP 39522 RM.
9.	PART OF ASSOCIATED UNIT
10.	NEW STYLE SWITCH (309507) SHOWN EARLIER VERSION 162873 SWITCH.

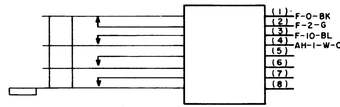
F
KEYBOARD CONNECTOR MALE



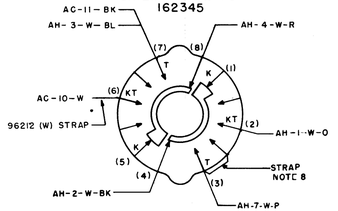
AA
KEYBOARD SIGNAL GENERATOR
154166



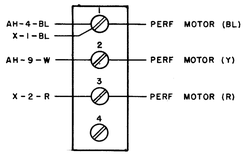
AB
LOCK BAR SWITCH
158231



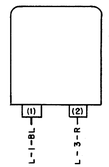
AC
AUXILIARY SWITCH
162345



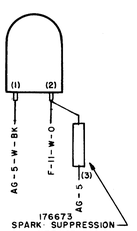
L
TERMINAL BLOCK
151415



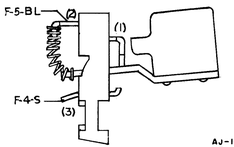
X
CAPACITOR
176679



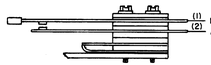
J
GEAR SHIFT MAGNET
224M

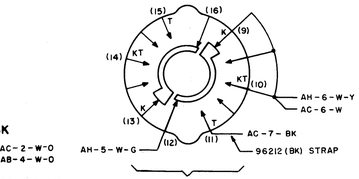


C
HERE-IS KEYLEVER CONTACTS
NOTE 10 309507

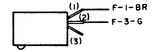


U
KEYBOARD UNIVERSAL CONTACT
162878

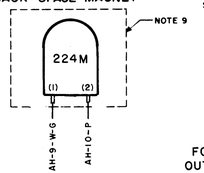




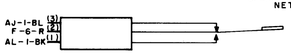
AK
SIGNAL LINE BREAK KEY SWITCH
151329



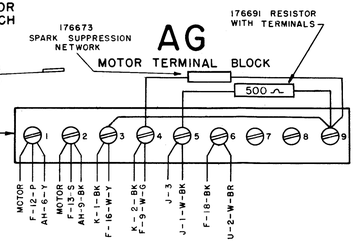
AM
BACK-SPACE MAGNET



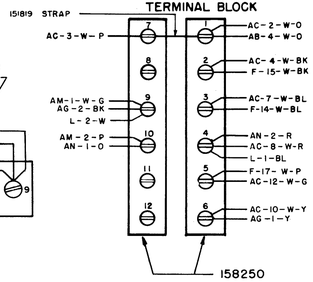
AF
END-OF-LINE MARGIN INDICATOR SELECTOR SWITCH
158066



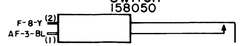
AG
MOTOR TERMINAL BLOCK



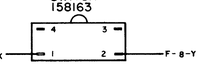
AH
KEYBOARD TERMINAL BLOCK



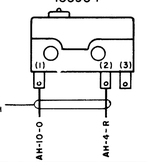
AJ
END-OF-LINE INDICATOR SWITCH
158050



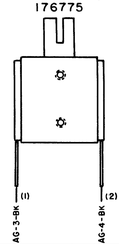
AL
MARGIN INDICATOR SWITCH
158163



AN
BACK-SPACE SWITCH
155954



K
FORM FEED OUT SOLENOID
176775



4338 WD

REVISIONS

ISSUE	DATE	AUTH. NO.
2	12-27-66	77177
3	6-7-67	78054
4	5-23-67	88832-2

APPROVALS

D AND	E OF M
E NUMBER	
PROD. NO. 4338 WD	

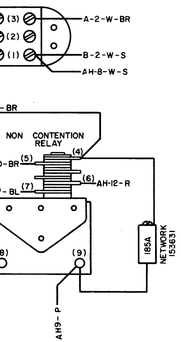
ACTUAL WIRING DIAGRAM MODEL 28 KEYBOARD BASE
LAK 27
LPE 4

DATE: 1-5-6
P.O. FILE NO. 22 A65.219A
DRAWN
ENGD. G.E.W. APD

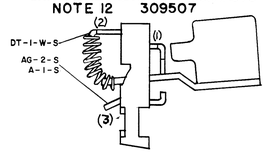
TELETYPE CORPORATION

4338 WD

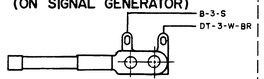
DT
RELAY ASSEMBLY



B
HERE-IS UNIVERSAL KEYBOARD CONTACTS NOTE 12 309507

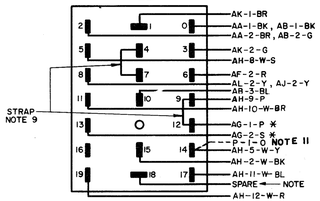


A
PULSING KEYBOARD CONTACTS (ON SIGNAL GENERATOR)

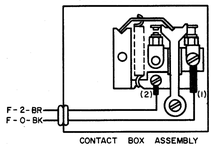


165692 ANSWER BACK MECHANISM (SEE NOTE 8)

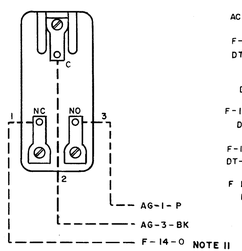
F
KEYBOARD CONNECTOR MALE



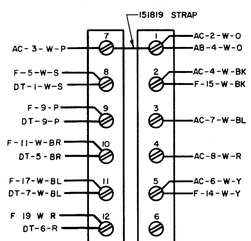
AA
KEYBOARD SIGNAL GENERATOR



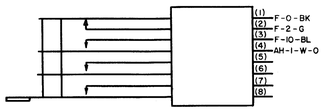
P
LOCAL PAPER FEED OUT MOTOR START SWITCH



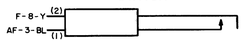
AH
KEYBOARD TERMINAL BLOCK



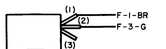
AB
LOCK BAR SWITCH



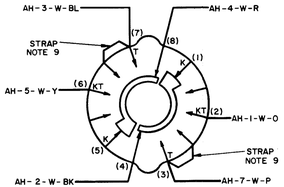
AJ
END OF LINE INDICATOR SWITCH

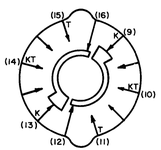


AK
SIGNAL LINE BREAK KEY SWITCH

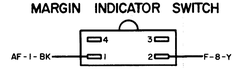


AC
AUXILIARY SWITCH

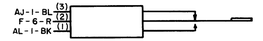




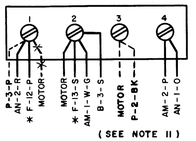
AL
MARGIN INDICATOR SWITCH



AF
END OF LINE MARGIN INDICATOR SELECTOR SWITCH

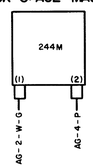


AG
MOTOR TERMINAL BLOCK

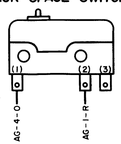


(SEE NOTE 11)

AM
BACK SPACE MAGNET



AN
BACK SPACE SWITCH



4915WD		
REVISIONS		
ISSUE	DATE	AUTH NO.
#2	4-28-62	73202
#3	7-31-63	77270
#4	1-29-64	79231
#5	2-28-64	81000
6	5-24-67	89532

ACTUAL WIRING DIAGRAM

MODEL 28 KEYBOARD BASE

LAK 29, LAK 39

APPROVALS	
R AND D	E OF M
E-NUMBER	
PROD. NO.	4915WD
DATE:	1-31-62
P.O. FILE NO.	5-A100AA
DRAWN JJK	CHKD
ENGD. WTC	APPD.

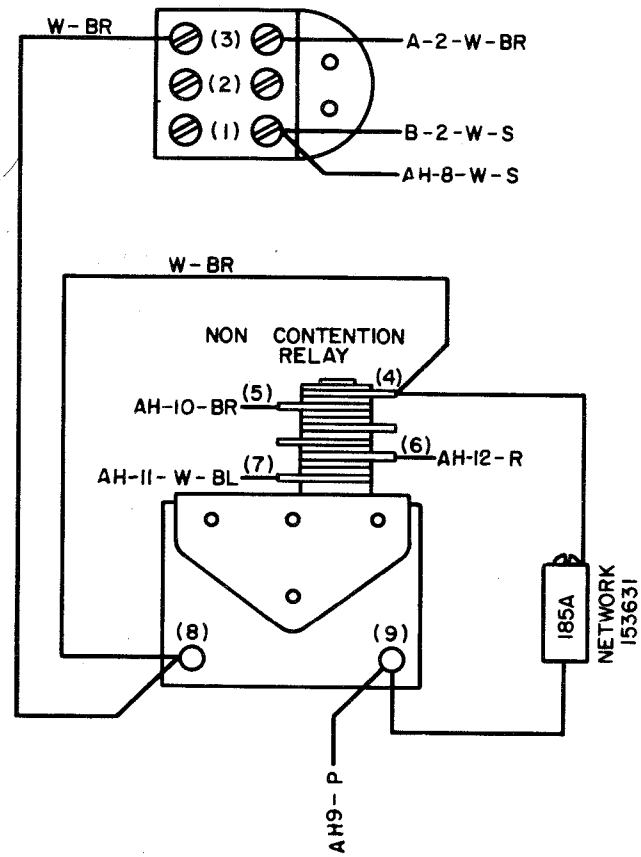
TELETYPE CORPORATION

4915WD

NO.	NOTES
1.	WIRING LEGEND: DISTANT TERMINATING AREA DISTANT TERMINAL DESIGNATION WIRE COLOR CODE A – 2 – W-BR
2.	COLOR CODE: BK — BLACK BR — BROWN BL — BLUE Y — YELLOW O — ORANGE G — GREEN P — PURPLE W — WHITE S — SLATE R — RED * = 18 GA.
3.	UNIT WIRED FOR 115 VOLTS AC OR DC POWER INPUT.
4.	CONNECTOR VIEWED FROM SOLDER TERMINAL END.
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: 162572 CABLE ASSEMBLY, AUXILIARY 165694 CABLE ASSEMBLY, KEYBOARD - LAK29
8.	(table below)
9.	BARE WIRE STRAP 39522RM
10.	NUMBERS ENCLOSED IN PARENTHESIS ARE USED FOR REFERENCE AND ARE NOT NECESSARILY SHOWN ON PART.
11	FOR LAK39 ADD DASHED CONNECTIONS (– – – –) AND OMIT CONNECTIONS MARKED (——X——X——) IN MOTOR POWER CIRCUITS.
12.	NEW STYLE SWITCH (309507) SHOWN. EARLIER VERSION IS 162873 SWITCH.

LAK NUMBER	ARC SUPPRESSION NETWORK 154166	R.F. NETWORK 154190	TIME DELAY MECH. 154142	PAPER FEED-OUT MECH. 154147	LINE BREAK MECH. 154141	ANSWER BACK MECH. 165692
29	—	—	—	—	X	X
39	—	—	—	X	X	X

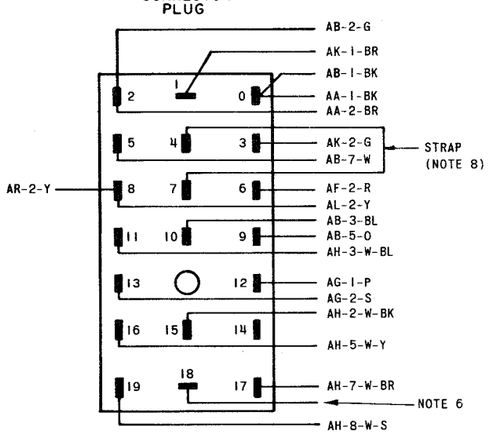
DT
CONTROL RELAY ASSEMBLY



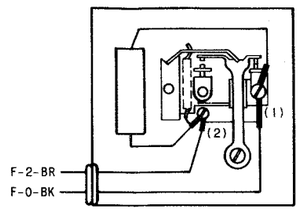
165692 ANSWE
(SEE

NO.	NOTES
1.	WIRING LEGEND: DISTANT TERMINATING AREA DISTANT TERMINATING DESIGNATION. A-1-W-BL WIRE COLOR CODE
2.	COLOR CODE: BK - BLACK G - GREEN BR - BROWN BL - BLUE R - RED P - PURPLE O - ORANGE W - WHITE Y - YELLOW S - SLATE
3.	UNIT WIRED FOR 115 VOLTS AC OR DC POWER INPUT.
4.	PLUGS VIEWED FROM SOLDER TERMINAL ENDS.
5.	ALL CONTACTS SHOWN IN UNOPERATED OR DE-ENERGIZED POSITION IN KEYBOARD.
6.	SPARE TERMINAL OF F-18 RESERVED FOR POLAR OPERATION OF KEYBOARD SIGNAL GENERATOR.
7.	ASSOCIATED CABLE ASSEMBLIES: 158224 CABLE ASSEMBLY, AUXILIARY 158249 CABLE ASSEMBLY, KEYBOARD 155992 CABLE ASSEMBLY, BACKSPACE 159343 CABLE ASSEMBLY, BACKSPACE MAGNET 178599 F TO AH TWO-WIRE CABLE ASSEMBLY 311439 CABLE & SWITCH ASSEMBLY, TAPE-OUT 179362 CABLE ASSEMBLY, TAPE-OUT CABINET
8.	BARE WIRE STRAP, 39522RM.
9.	PART OF ASSOCIATED UNIT (LPE, LPR, LRPE, OR LTPE).
10.	ASSOCIATED SCHEMATIC WIRING DIAGRAM: 7762WD
11.	
12.	REPERFORATOR SELECTOR MAGNETS: STRAP LPR33 SELECTOR MAGNETS IN AIDING SERIES AS SHOWN FOR 30MA. OPERATION WHEN USED WITH THIS KEYBOARD.
13.	NUMBERS SHOWN IN PARENTHESES ARE FOR REFERENCE ONLY AND ARE NOT MARKED ON COMPONENTS.
14.	REPERFORATOR SELECTOR MAGNETS: STRAP LPR6 SELECTOR MAGNETS IN AIDING PARALLEL AS SHOWN FOR 60MA OPERATION WHEN USED WITH LESU94.
15.	WHEN KEYBOARD IS USED WITH LESU94 ADD A STRAP FROM AH5 TO AH7 AND RELOCATE THE FOLLOWING LEADS: AC1-A1-W-G FROM AH6 TO AH4 AC2-A5-W-Y FROM AH5 TO AH2 AC2-A6-W-R FROM AH3 TO AH1 BQ-1-W-BL FROM C121 TO C123.

F
KEYBOARD CONNECTOR PLUG

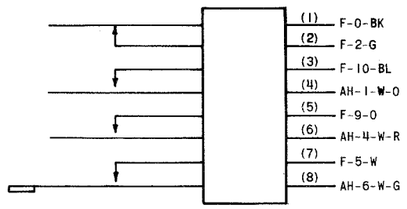


AA
KEYBOARD SIGNAL GENERATOR



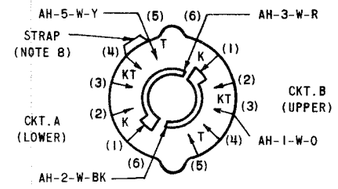
CONTACT BOX ASSEMBLY WITH ARC SUPPRESSION NETWORK ACCESSORY

AB
LOCK BAR SWITCH (RECEIVE)

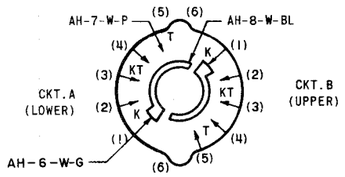


AC
AUXILIARY SWITCH

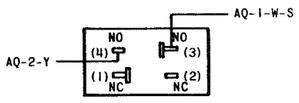
SECTION 2



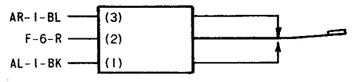
SECTION 1 (CLOSEST TO KNOB)



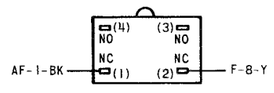
AE
LOW TAPE SWITCH



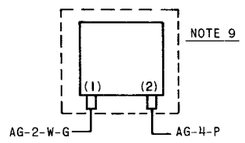
AF
END OF LINE MARGIN INDICATOR SELECTOR SWITCH (T)



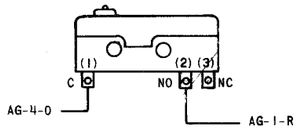
AL
MARGIN INDICATOR SWITCH



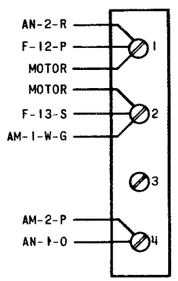
AM
BACKSPACE MAGNET



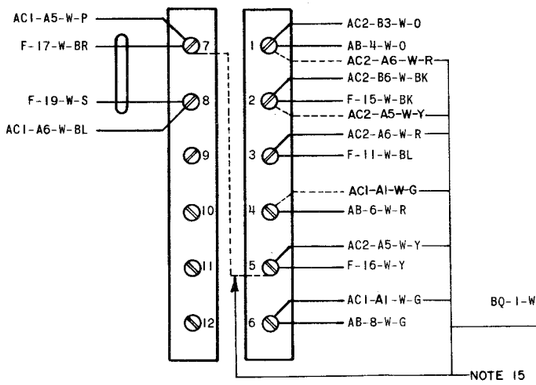
AN
BACKSPACE SWITCH



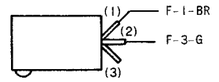
AG
MOTOR TERMINAL BLOCK



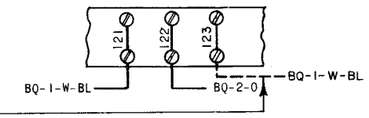
AH
KEYBOARD TERMINAL BLOCKS



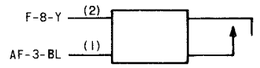
AK
SIGNAL LINE BREAK KEY SWITCH (UNUSED)



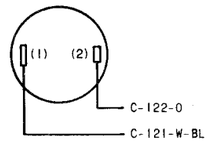
C
CABINET TERMINAL BLOCK



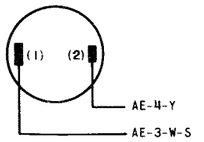
AR
END OF LINE INDICATOR SWITCH



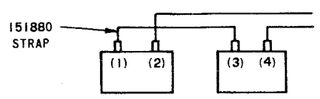
BQ
TAPE-OUT CONNECTOR (RECEPTACLE)



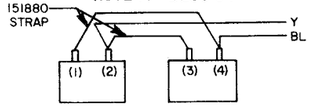
AQ
TAPE-OUT CONNECTOR (PLUG)



REPERFORATOR SELECTOR MAGNETS NOTE 12



REPERFORATOR SELECTOR MAGNETS NOTE 14 LESU 94



7765WD

REVISIONS

ISSUE	DATE	AUTH. NO.
1	4-20-65	16768-R
2	1-13-66	89018
3	5-31-66	89776

ACTUAL WIRING DIAGRAM FOR MODEL 28 ASR KEYBOARD BASE LAK49

APPROVALS

D AND R	E OF M
HJK	

E-NUMBER

PROD. NO. 7765WD

DATE 2-17-65

P.D. FILE NO. 26-58.65AA

DRAWN DDG/MK | CHKD. TDC

ENGD. R.E.P. | APPD. KRS

TELETYPE CORPORATION

7765WD