

28F AND 28G REPERFORATOR TRANSMITTER UNITS

WIRING DIAGRAMS

1. GENERAL

1.01 This section shows the wiring of the LRXB14, LPR25, LAXD1, and LMU12 (Bell 28F) and LRXB22, LRPE11, LAXD1, and LMU11 (Bell 28G) reperforator transmitter units. It is reissued to include recent engineering changes and to change the format.

1.02 The 28F and 28G units differ from 28-type reperforator transmitter sets in that they do not include a tape handling stand.

1.03 Notes on wiring diagrams explain symbols used and point out special conditions. These diagrams show the origin and termination of the various leads as well as color coding of the leads for each of the components.

2. WIRING DIAGRAM INDEX (ATTACHMENTS)

TITLE	DIAGRAM NUMBER	SHEET NO	WD ISSUE
Motor Units LMU11 (Used on 28G), LMU12 (Used on 28F)	2900WD	CTRL 1 2	6 43 44
LAXD1 (Used on 28F and 28G)	3277WD	1	10
Reperforator Transmitter Base LRXB22 (Used on 28G)	3740WD	1	C
Typing Reperforator LPR25 (Used on 28F)	3756WD	1	A
Reperforator Transmitter Base LRXB14 (Used on 28F)	4138WD	1	C
Nontyping Reperforator LRPE11 (Used on 28G)	4285WD	1	B

SYNCHRONOUS MOTOR UNITS

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

2900WD

REVISIONS

ISSUE	DATE	AUTH. NO.
L	2-15-60	28-12447
M	5-17-60	28-13280
N	5-27-60	28-13361
P	7-6-60	28-13494
Q	9-13-60	28-13899
R	12-14-60	28-14406
S	6-23-61	70255
T	8-8-61	70559
U	10-18-61	71471
V	11-30-61	71805
W	8-24-62	74285
X	9-20-62	74557
Y	11-20-62	75216
Z	4-15-63	76588
AA	4-15-63	76592
AB	5-16-63	76965
AC	5-28-63	76149
AD	8-22-63	77845
AE	1-13-64	79966
AF	1-24-64	79730-1
32	4-13-64	79730-2
33	5-22-64	82008
34	11-4-64	84364
35	3-4-65	82432
36	4-10-65	82432-1
37	9-22-65	82432-3
38	11-8-65	82432-4
39	11-10-65	87664
40	2-22-66	90356
41	4-5-66	90628
42	9-21-66	91790
43	2-27-68	95441

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

SHEET 1

WDP

ACTUAL
WIRING DIAGRAM
FOR
MODEL 28 & 35
MOTOR UNITS

APPROVALS

D AND R	E OF M
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E-NUMBER

PROD. NO. 2900WD

DATE 1-28-55

P.D. FILE NO. 1-30.65.156A

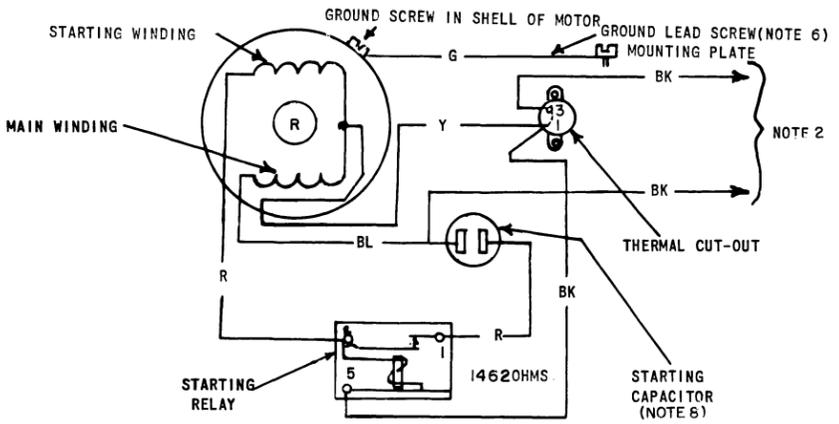
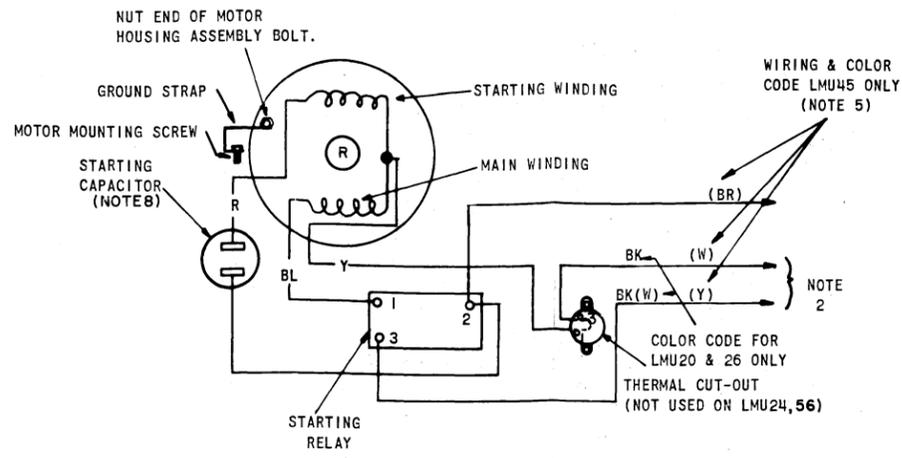
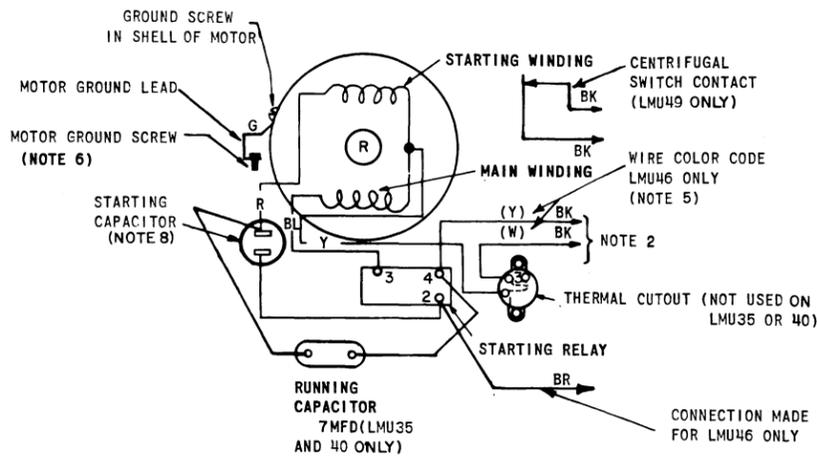
DRAWN E.R. CHKD. RSH

ENGD. B.M.B. APPD.

TELETYPE CORPORATION

2900WD

NO.	NOTES														
1.	SYNCHRONOUS MOTOR OPERATES ON REGULATED FREQUENCY ($\pm 0.75\%$) MAXIMUM AC ONLY.														
2.	CONNECT EITHER WIRE TO DESIGNATED TERMINALS OF UNIT TERMINAL BLOCK, PER WIRING DIAGRAM OF ASSOCIATED UNIT														
3.	MOTOR LEADS OF SAME COLOR ARE INTERCHANGEABLE.														
5.	EXTERNAL NOISE SUPPRESSION NETWORK CONSISTING OF 100 OHM, 1/2 WATT RESISTOR IN SERIES WITH 0.25 MFD 1K V CAPACITOR CONNECTED ACROSS YELLOW AND BROWN WIRES. (FOR LMU45,46)														
6.	MOTOR GROUND LEAD (GREEN) TERMINAL MUST BE FASTENED TO MOUNTING CRADLE OF MOTOR UNDER A SEPARATE GROUND SCREW ONLY. A SCREW USED FOR ANOTHER PURPOSE CANNOT BE USED FOR GROUNDING (UNDERWRITERS LABORATORIES REQUIREMENT).														
7.	WIRE COLOR CODE: BK - BLACK R - RED BL - BLUE O - ORANGE BR - BROWN Y - YELLOW P - PURPLE S - SLATE W - WHITE G - GREEN														
8.	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>LMU</th> <th>STARTING CAPACITOR VALUE</th> </tr> </thead> <tbody> <tr> <td>3,15,21,30,33,36,37,38,42,46,49,51,52</td> <td>43-48 MFD</td> </tr> <tr> <td>11,12</td> <td>170-226 MFD</td> </tr> <tr> <td>35,40</td> <td>64-77 MFD</td> </tr> <tr> <td>55</td> <td>15-18 MFD</td> </tr> <tr> <td>19,20,24,26,31,45,56</td> <td>88-108 MFD</td> </tr> <tr> <td>50,</td> <td>161-193 MFD</td> </tr> </tbody> </table>	LMU	STARTING CAPACITOR VALUE	3,15,21,30,33,36,37,38,42,46,49,51,52	43-48 MFD	11,12	170-226 MFD	35,40	64-77 MFD	55	15-18 MFD	19,20,24,26,31,45,56	88-108 MFD	50,	161-193 MFD
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3,15,21,30,33,36,37,38,42,46,49,51,52	43-48 MFD														
11,12	170-226 MFD														
35,40	64-77 MFD														
55	15-18 MFD														
19,20,24,26,31,45,56	88-108 MFD														
50,	161-193 MFD														



SERIES GOVERNED MOTOR UNITS

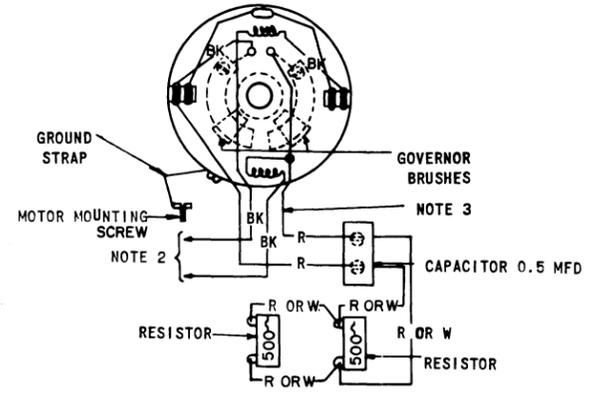
NOTE:
REVISION INFORMATION MUST ALSO BE
REFLECTED ON THE ISSUE CONTROL REC-
ORD, WHICH IS A PART OF THIS DRAWING

2900WD

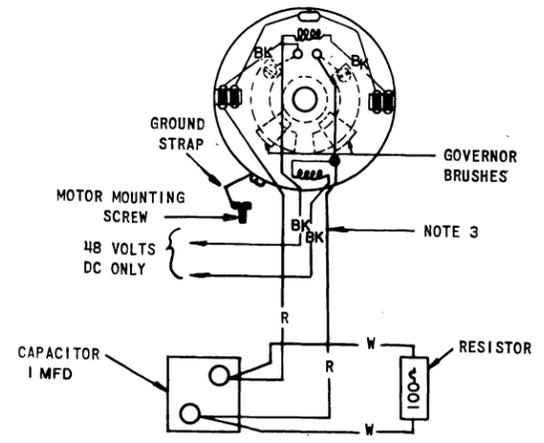
REVISIONS

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M	5-17-60	28-13280
N	5-27-60	28-13361
P	7-6-60	28-13404
Q	9-13-60	28-13899
R	12-14-60	28-14406
S	6-23-61	70285
T	8-8-61	70859
U	10-18-61	71471
V	11-30-61	71805
W	8-24-62	74285
X	9-20-62	74557
Y	11-29-62	75216
Z	4-15-63	75589
AA	4-15-63	75592
AB	5-16-63	75958
AC	5-28-63	76149
AD	8-22-63	77845
AE	1-13-64	79955
AF	1-24-64	79730-1
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33	5-22-64	82006
34	11-4-64	84364
35	3-4-65	82432
36	4-10-65	82432-1
37	9-22-65	82432-3
38	11-8-65	82432-4
39	11-10-65	87644
40	2-22-66	90356
41	4-5-66	90628
42	4-25-67	93075
43	5-26-67	94128-RC
44	5-13-68	95859

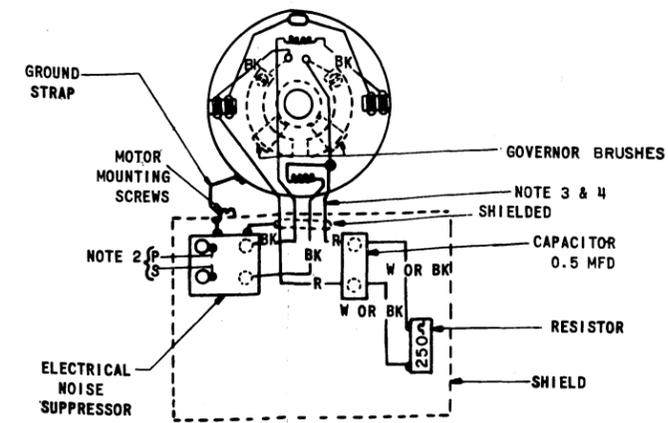
- NO. NOTES**
- A. AC SERIES MOTOR UNITS OPERATE ON UN-REGULATED AC POWER.
B. ASSOCIATED LESU MUST BE EQUIPPED WITH CAPACITOR-RESISTOR ASSEMBLY FOR DC OPERATION OF GOVERNED MOTORS.
 - CONNECT EITHER WIRE TO DESIGNATED TERMINALS OF UNIT TERMINAL BLOCK, PER WIRING DIAGRAM OF ASSOCIATED UNIT.
 - MOTOR LEADS OF SAME COLOR ARE INTER-CHANGEABLE.
 - MOTOR LEADS ARE ENCLOSED IN APPROXIMATELY 10" LONG COPPER SHIELDING & FASTENED TO MOTOR AND CONTROL PARTS COMPARTMENT. (FOR LMU28).
 - LMU4, 10, AND 14 MOTOR UNITS (UNIVERSAL SERIES GOVERNED) CONTAIN TWO 500 OHM RESISTORS WIRED IN PARALLEL EQUIVALENT TO 250 OHMS.
LMU4 MOTOR UNIT SUPERSEDED BY LMU41 MOTOR UNIT.
LMU10 MOTOR UNIT SUPERSEDED BY LMU47 MOTOR UNIT.
LMU14 MOTOR UNIT SUPERSEDED BY LMU39 MOTOR UNIT.
 - WIRE COLOR CODE:
BK - BLACK R - RED
BL - BLUE O - ORANGE
BR - BROWN Y - YELLOW
P - PURPLE S - SLATE
W - WHITE G - GREEN



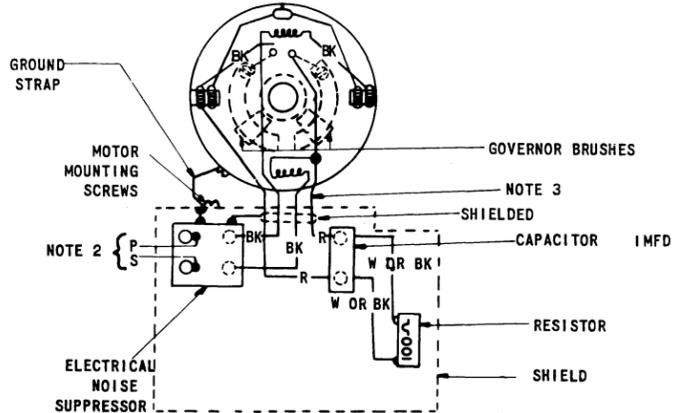
LMU 6, 13 (UNIVERSAL)
WITHOUT RADIO FREQUENCY SUPPRESSORS
FOR USE WITH EITHER 115V AC 50-60~OR 115V DC POWER SUPPLY (NOTE 1B).



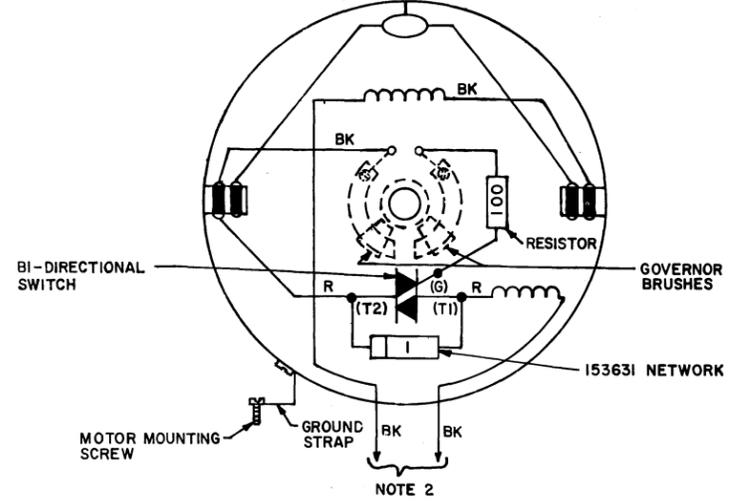
LMU 23 (48 VOLTS)
WITHOUT RADIO FREQUENCY SUPPRESSORS
FOR USE ON 48 V.D.C POWER SUPPLY ONLY.



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



LMU 57, 60 (115 VOLTS AC)
WITHOUT RADIO FREQUENCY SUPPRESSORS
FOR USE ON 115 VOLTS AC ONLY

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

SHEET 2

ACTUAL
WIRING DIAGRAM
FOR
MODEL 28 & 35
MOTOR UNITS

APPROVALS

D AND R	E OF M
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E-NUMBER
PROD. NO. 2900WD
DATE 1-28-55
P.D. FILE NO. 1-30.65.156A
DRAWN E.R. CHKD. R.E.N.
ENGD. B.M.B. APPD.

TELETYPE CORPORATION

2900WD

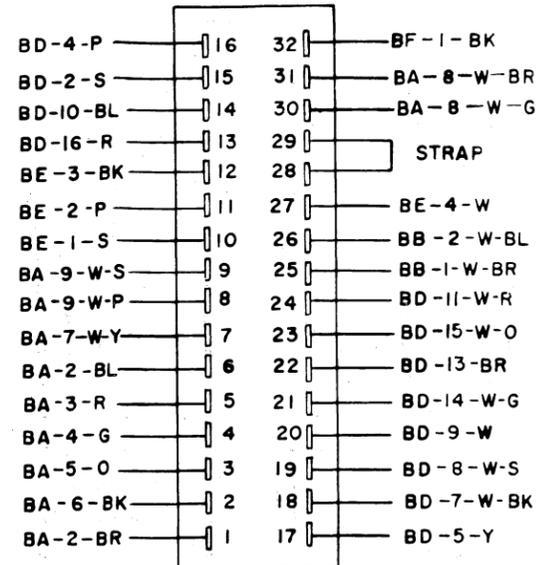
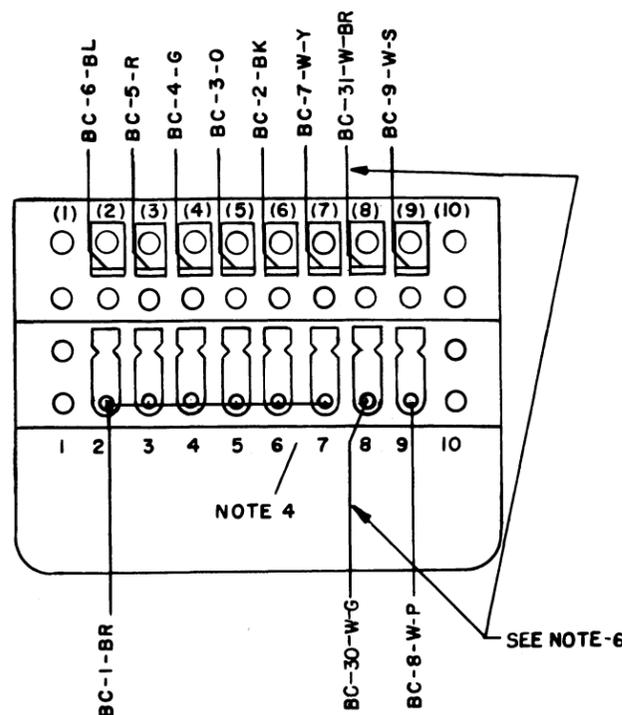
REVISIONS

ISSUE	DATE	AUTH. NO.
A2	4-13-57	TP-1523
B3	9-17-57	TP-2350
B4	12-6-57	TP-2854
B5	7-7-58	28-9566
B6	4-16-58	28-10909
B7	9-14-58	28-11662
B8	1-5-60	28-12339
B9	8-6-62	71-45
10	8-17-63	875C6

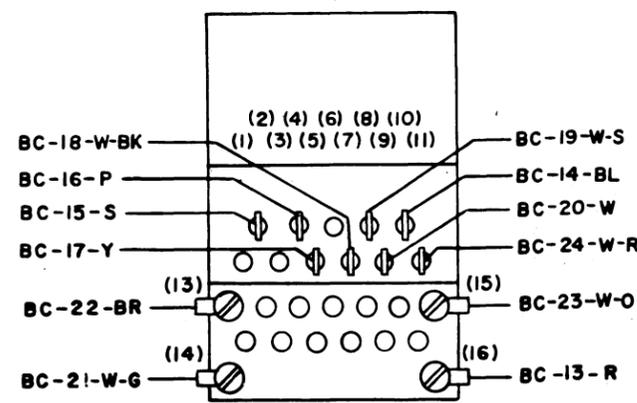
- NO. NOTES**
- WIRING LEGEND:**
 - COLOR CODE:**

BK - BLACK	P - PURPLE	W-BK - WHITE BLACK
BL - BLUE		W-BL - WHITE BLUE
BR - BROWN		W-BR - WHITE BROWN
G - GREEN		W-G - WHITE GREEN
O - ORANGE		W-O - WHITE ORANGE
W - WHITE		W-R - WHITE RED
Y - YELLOW		W-Y - WHITE YELLOW
R - RED		W-P - WHITE PURPLE
S - SLATE		W-S - WHITE SLATE
 - CONNECTOR, BLOCKS AND MAGNETS ARE VIEWED FROM SOLDER TERMINAL ENDS.
 - STRAP WITH #18 GAGE BARE WIRE AS INDICATED.
 - THIS WIRING DIAGRAM IS USED WITH 159809 CABLE ONLY.
 - LAXD 1 & 4 ONLY, OMIT ON LAXD 2 (TAPE AND TIE ENDS TO CABLE)

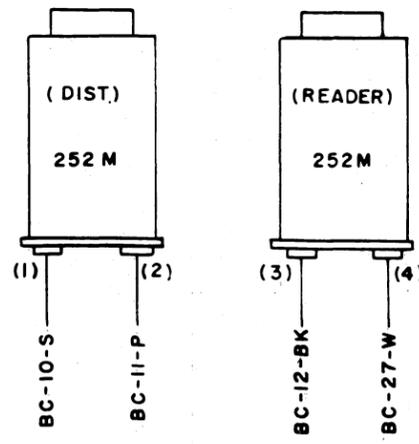
BA DISTRIBUTOR BLOCK BB LAST CHARACTER SWITCH TRANS-DISTR. CONNECTOR BC



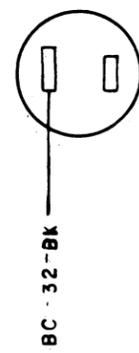
BD TRANSMITTER BLOCK



BE MAGNETS



BF LINE SHUNT CONNECTOR



APPROVALS

D AND R	E OF "11"
<i>[Signature]</i>	<i>[Signature]</i>
E. NUMBER	
PROD. NO. 3277WD	

ACTUAL WIRING DIAGRAM

FOR
LAXD 1
LAXD 2
LAXD 4

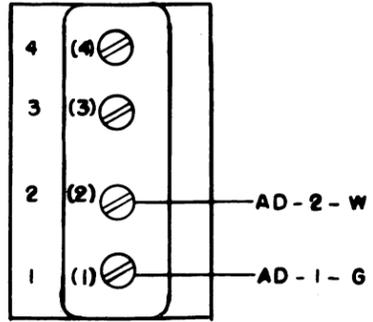
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PD. FILE NO 1-58.65AA
DRAWN: E.K.S. CHKD: R.D.
ENGD: A.A.H. APPD: <i>[Signature]</i>

TELETYPE CORPORATION

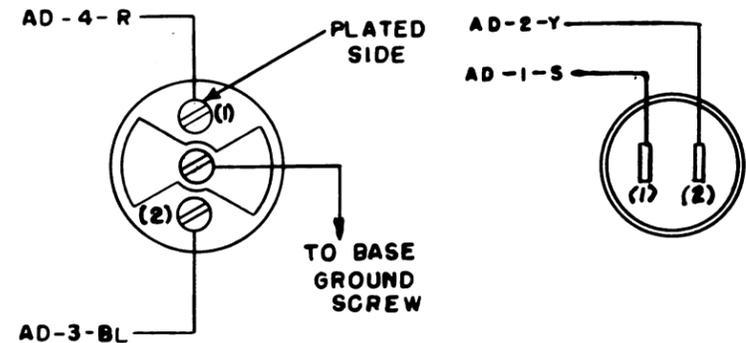
3740WD

ISSUE	DATE	AUTH. NO.
A	10-21-59	28-11974
B	12-8-59	28-12281
C	11-25-60	28-14317

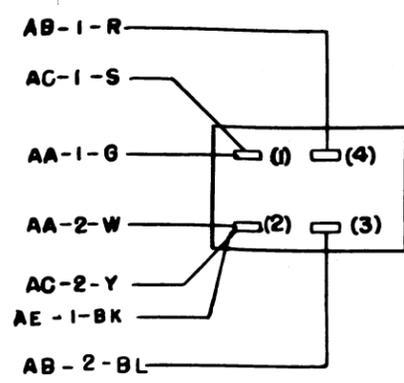
AA
MOTOR TERMINAL BOARD



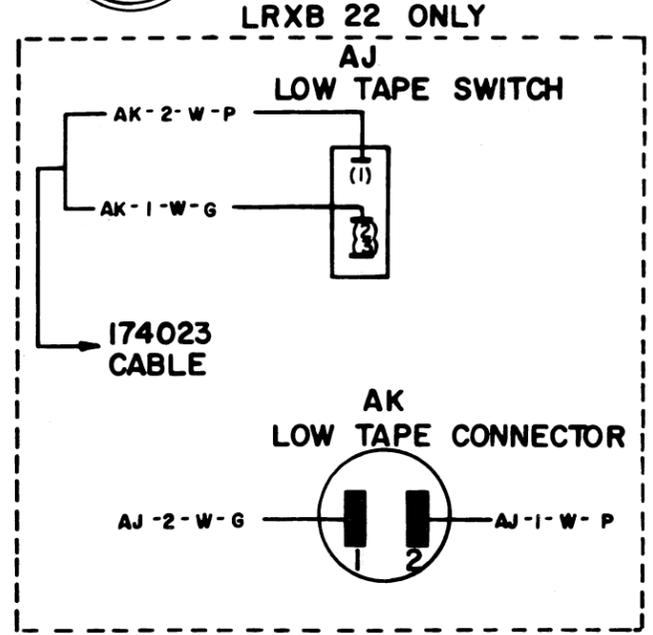
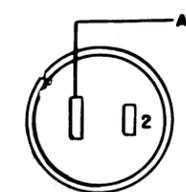
AB AC CONNECTOR
AC CAPACITOR CONNECTOR



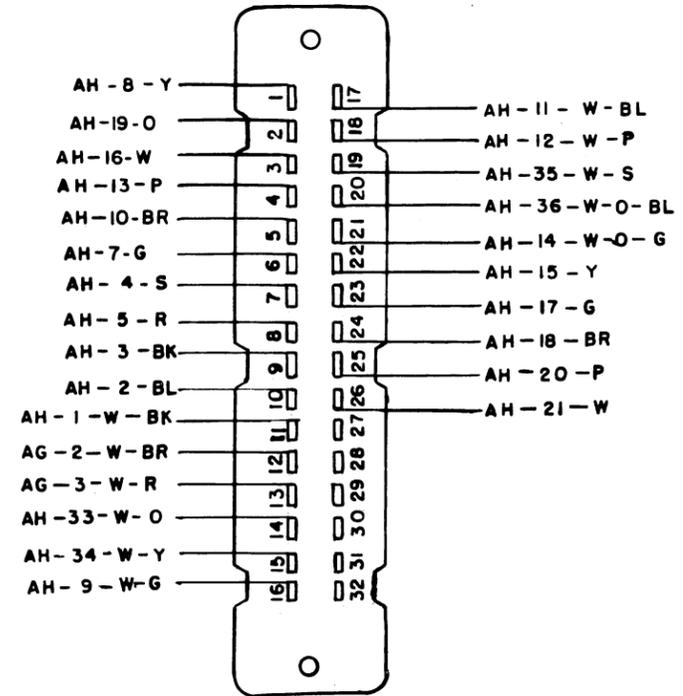
AD
POWER SWITCH



AE
LINE SHUNT CONNECTOR



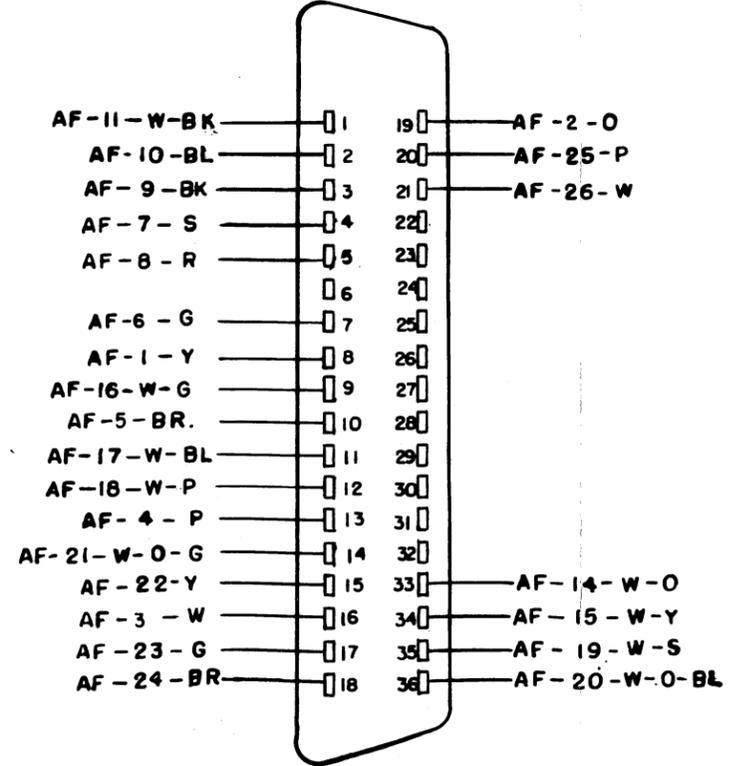
AF
PLUG CONNECTOR



AG
RECEPTACLE CONNECTOR



AH
PLUG CONNECTOR



ACTUAL WIRING DIAGRAM
MODEL 28 REPERFORATOR TRANSMITTER BASE

LRXB 10,12,22

APPROVALS

D AND R	E OF M
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E-NUMBER _____

PROD. NO. 3740WD

DATE: 7-9-59

P.D. FILE NO. 3-A65,220A

DRAWN N.A.R. CHKD *[Signature]*

ENGD. J.R.H. APPD. *[Signature]*

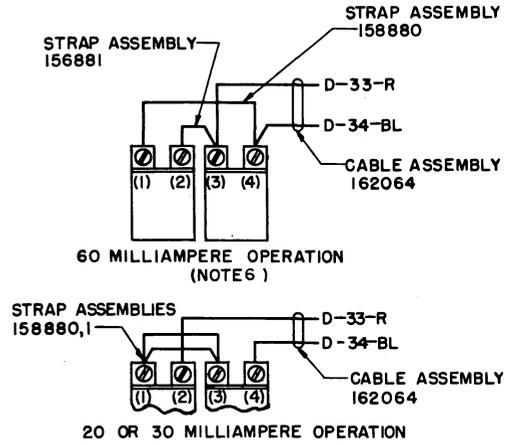
TELETYPE CORPORATION

3740WD

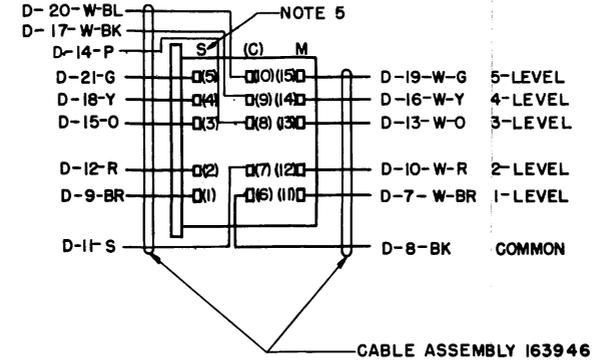
REVISIONS		
ISSUE	DATE	AUTH. NO.
B	1-26-60	28-1294

- NOTES**
- COLOR CODE**
 BK BLACK G GREEN
 BR BROWN BL BLUE
 R RED P PURPLE
 O ORANGE S SLATE
 Y YELLOW W WHITE
- WIRING LEGEND**
 DISTANT TERMINAL AREA
 DIST. TERM. DESIGNATION
 WIRE COLOR CODE
 F-4-W-BL
1. TERMINALS DESIGNATED IN PARENTHESIS ARE NOT MARKED ON COMPONENTS.
2. TERMINALS ON CONNECTOR SHOWN AS VIEWED FROM SOLDER END.
3. WHEN THE REPERFORATOR IS IN THE STOP (IDLE) POSITION:
 a. THE SPACING (S) SIDE OF THE CODE READING CONTACTS ARE CLOSED.
 b. THE CONTACTS NEAREST THE MOUNTING BRACKET OF THE AUXILIARY CONTACTS ARE CLOSED.
4. UNITS AS SHIPPED FROM FACTORY ARE WIRED FOR 60 M.A. OPERATION.

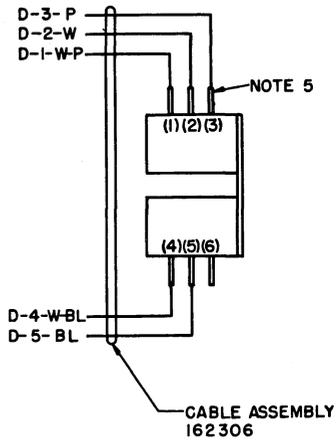
A
SELECTOR MAGNETS



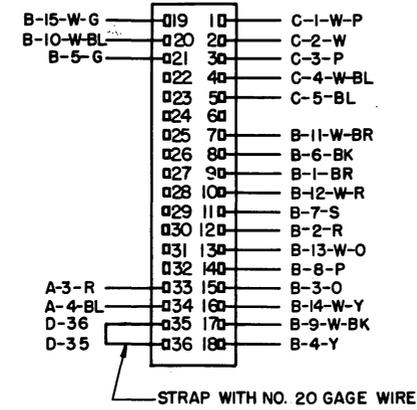
B
CODE READING CONTACTS



C
AUXILIARY CONTACTS



D
36-POINT CONNECTOR



APPROVALS

D AND P: [Signature] E OF M: [Signature]

E-NUMBER: [Signature]

PROJ. NO: 3756 WD

ACTUAL WIRING DIAGRAM FOR MODEL 28 TYPING REPERFORATOR LPR 25

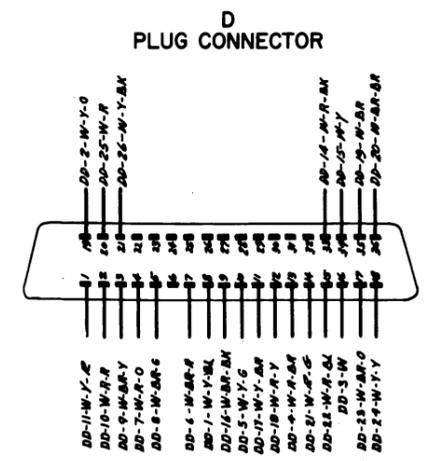
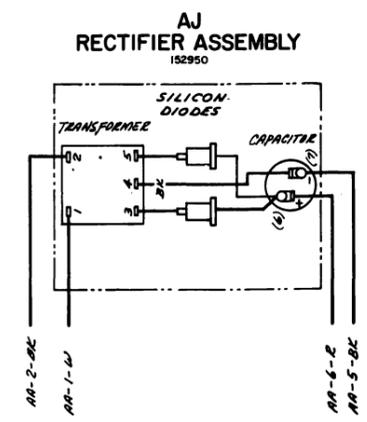
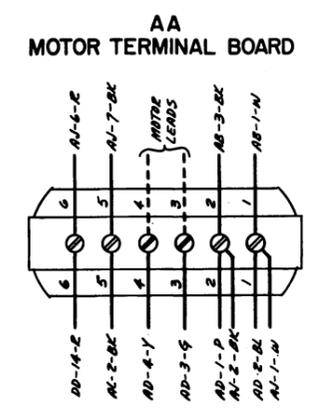
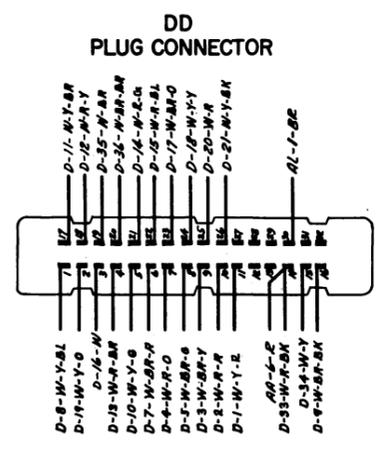
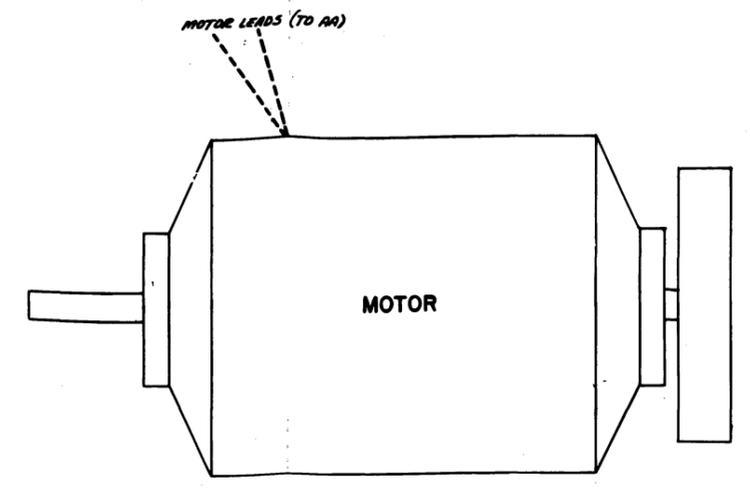
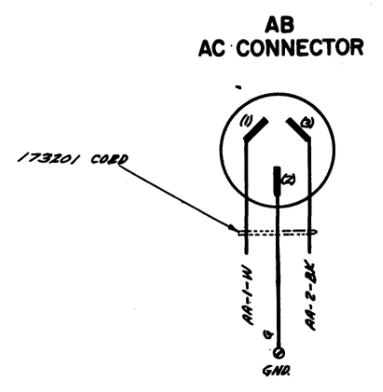
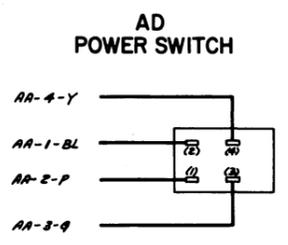
DATE: 6-28-59
 P.D. FILE NO. 3-805.220A
 DRAWN: E.M. CHND
 ENGR. J.R.A. APPD.

TELETYPE CORPORATION
 3756 WD

REVISED	DATE	BY
A	6-23-60	WJL
B	11-25-60	WJL
C	6-28-61	WJL

- NOTES**
1. DISTANT TERMINATING ADAPTER, DISTANT TERMINAL DESIGNATION, WIRE COLOR CODE
 2. COLOR CODE:

BL	BLACK	W-BL	WHITE-BLACK
BL	BLUE	W-BL	WHITE-BLUE
GR	GREEN	W-G	WHITE-GREEN
OR	ORANGE	W-O	WHITE-ORANGE
P	PURPLE	W-P	WHITE-PURPLE
R	RED	W-R	WHITE-RED
S	SLATE	W-S	WHITE-SLATE
Y	YELLOW	W-Y	WHITE-YELLOW
		W-BL	WHITE-ORANGE-BLUE
		W-BL	WHITE-ORANGE-GREEN
 3. CONNECTORS WELDED FROM SOLDER TERMINAL END.
 4. TERMINAL DESIGNATIONS ENCLOSED IN PARENTHESES ARE NOT MARKED ON COMPONENTS.
 5. THIS CONNECTOR IS PART OF LAYD AND IS ONLY INSTALLED WHEN LAYD IS PUT ON BASE.



ACTUAL WIRING DIAGRAM
MODEL 28
SUPERHEATER
TRANSMITTER BASE
LEXB 14

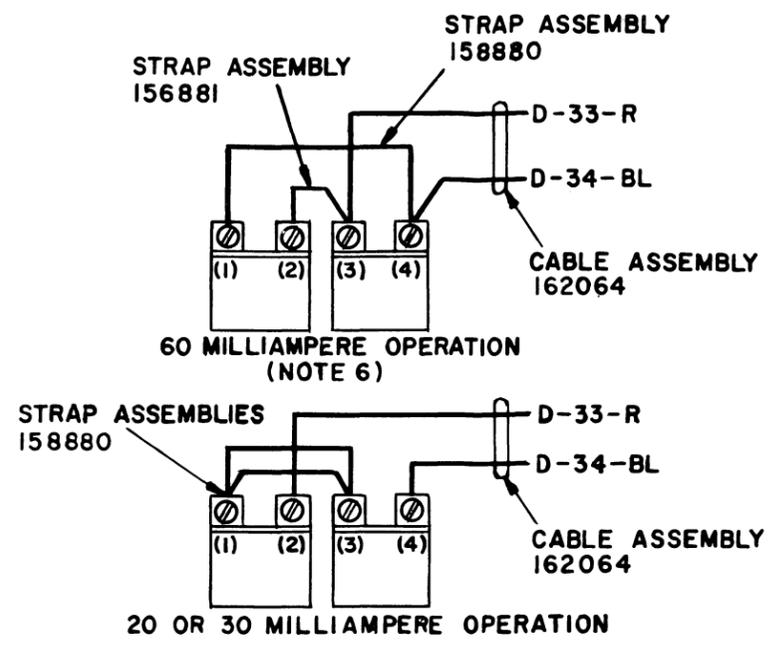
APPROVALS

DATE: 8-23-60
FILE: 8-A-152950
TELETYPE CORPORATION
4138 WD

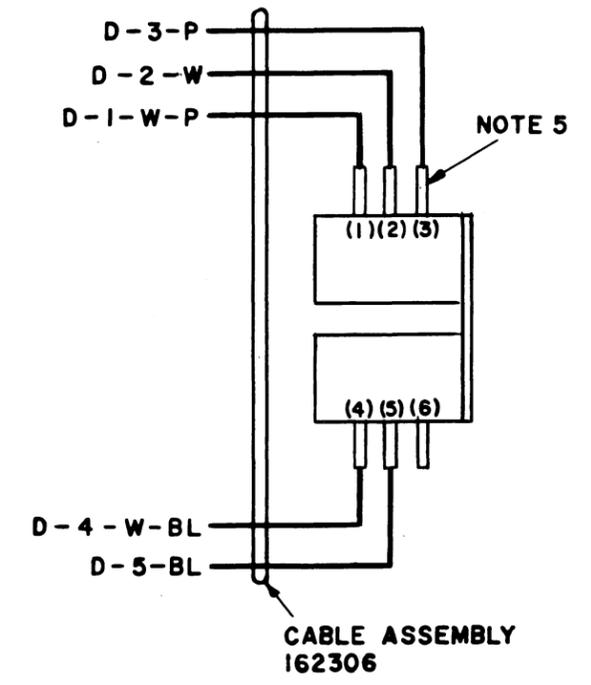
ISSUE	DATE	AUTH. NO.
A	8-30-63	77881
B	11-2-63	79096

- NO. NOTES**
- COLOR CODE:**
BK BLACK G GREEN BR BROWN
BL BLUE R RED P PURPLE
O ORANGE S SLATE Y YELLOW
W WHITE
 - WIRING LEGEND:**
DISTANT TERMINAL AREA
DIST. TERM. DESIGNATION
WIRE COLOR CODE
F-4-W-BL
 - TERMINALS DESIGNATED IN PARENTHESIS ARE NOT MARKED ON COMPONENTS.
 - TERMINALS ON CONNECTOR SHOWN AS VIEWED FROM SOLDER END.
 - WHEN THE REPERFORATOR IS IN THE STOP (IDLE) POSITION: THE CONTACTS NEAREST THE MOUNTING BRACKET OF THE AUXILIARY CONTACTS ARE CLOSED.
 - UNITS AS SHIPPED FROM FACTORY ARE WIRED FOR 60 MA. OPERATION.
 - FEED OUT MAGNET AND CABLE ASSEMBLY IS PART OF 173443 MODIFICATION KIT. VERIFIER CONTACT BLOCK AND CABLE ASSEMBLY IS PART OF 197969 MODIFICATION KIT.

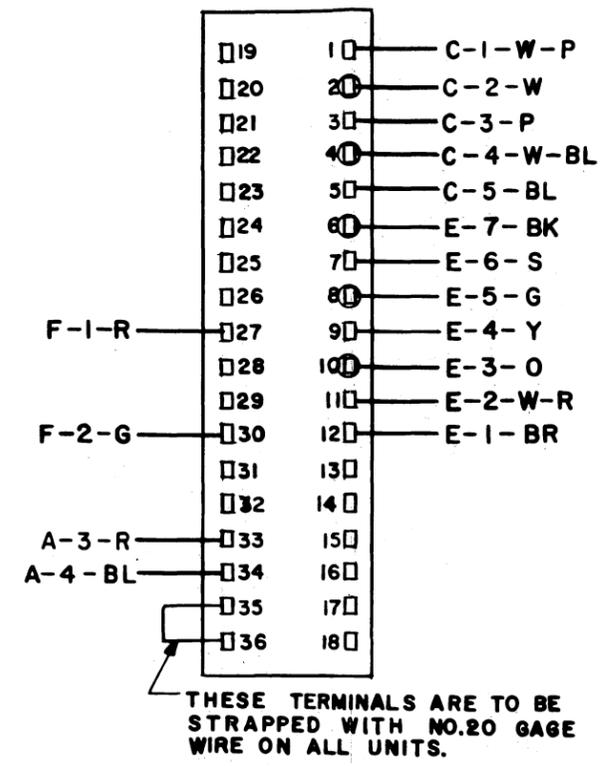
**A
SELECTOR MAGNETS**



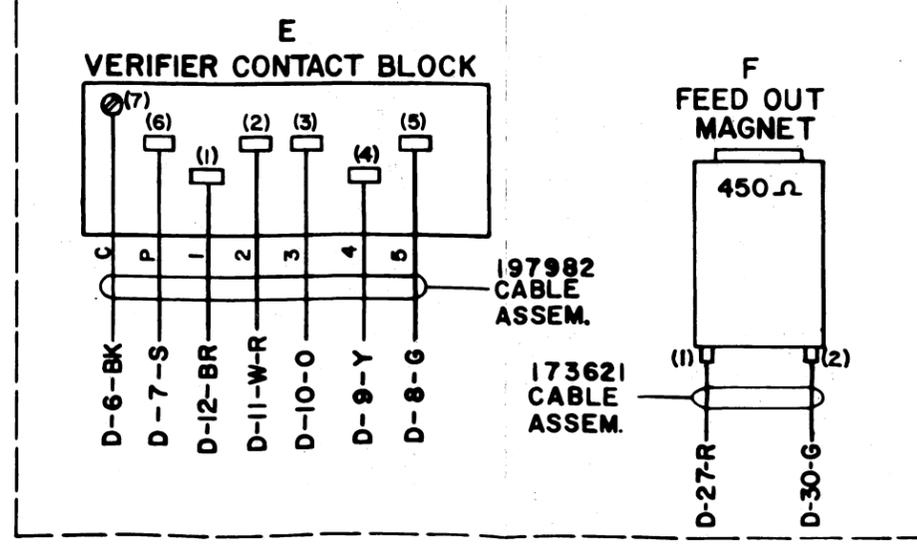
**C
AUXILIARY CONTACTS**



**D
36-POINT CONNECTOR**



ON LRPE 15 ONLY



LRPE 11 & 15
ACTUAL WIRING
DIAGRAM FOR MODEL
28 NON TYPING
REPERFORATOR

APPROVALS

D AND R	E OF M
<i>[Signature]</i>	<i>[Signature]</i>
E-NUMBER	
PROD. NO. 4285 W.D.	
DATE: 6-18-60	
P.D. FILE NO. 3-163-36	
DRAWN A.D.	CHKD <i>[Signature]</i>
ENGD. R.L.F.	APPR <i>[Signature]</i>

TELETYPE CORPORATION
3 4285 WD