

"DATASPEED<sup>®</sup>" TAPE RECEIVER 5B  
SCHEMATIC AND ACTUAL WIRING DIAGRAMS

**1. GENERAL**

1.01 This section provides the schematic diagrams, actual wiring diagrams, interconnecting diagrams, and power distribution diagrams for DATASPEED Tape Receiver 5B. This section is reissued to provide the latest wiring diagrams, circuit cards, and cable diagram for the Tape Receiver 5B. Since this is a general revision, marginal arrows ordinarily used to indicate changes and additions are omitted.

1.02 Refer to related sections for descriptive information. Diagrams concerned with the tape punch or optional feature unit are included in a standard tape punch section or the section covering the feature unit.

1.03 The attached material consists of Wiring Diagram Package WDP0005. The index of the WDP lists the title of each diagram, its Teletype identification number, and the diagram issue number.



REVISIONS

ISSUE	DATE	AUTH. NO.
2	RECORD ONLY	
3	8-28-64	83084
4	10-7-64	84000
5	11-20-64	84989
6	2-19-65	86191
7	4-21-65	86360
8	10-1-65	88979
9	3-28-66	88025
10	11-1-66	88034
11	5-10-67	92196
12	7-6-67	94248
13	8-21-67	94496A

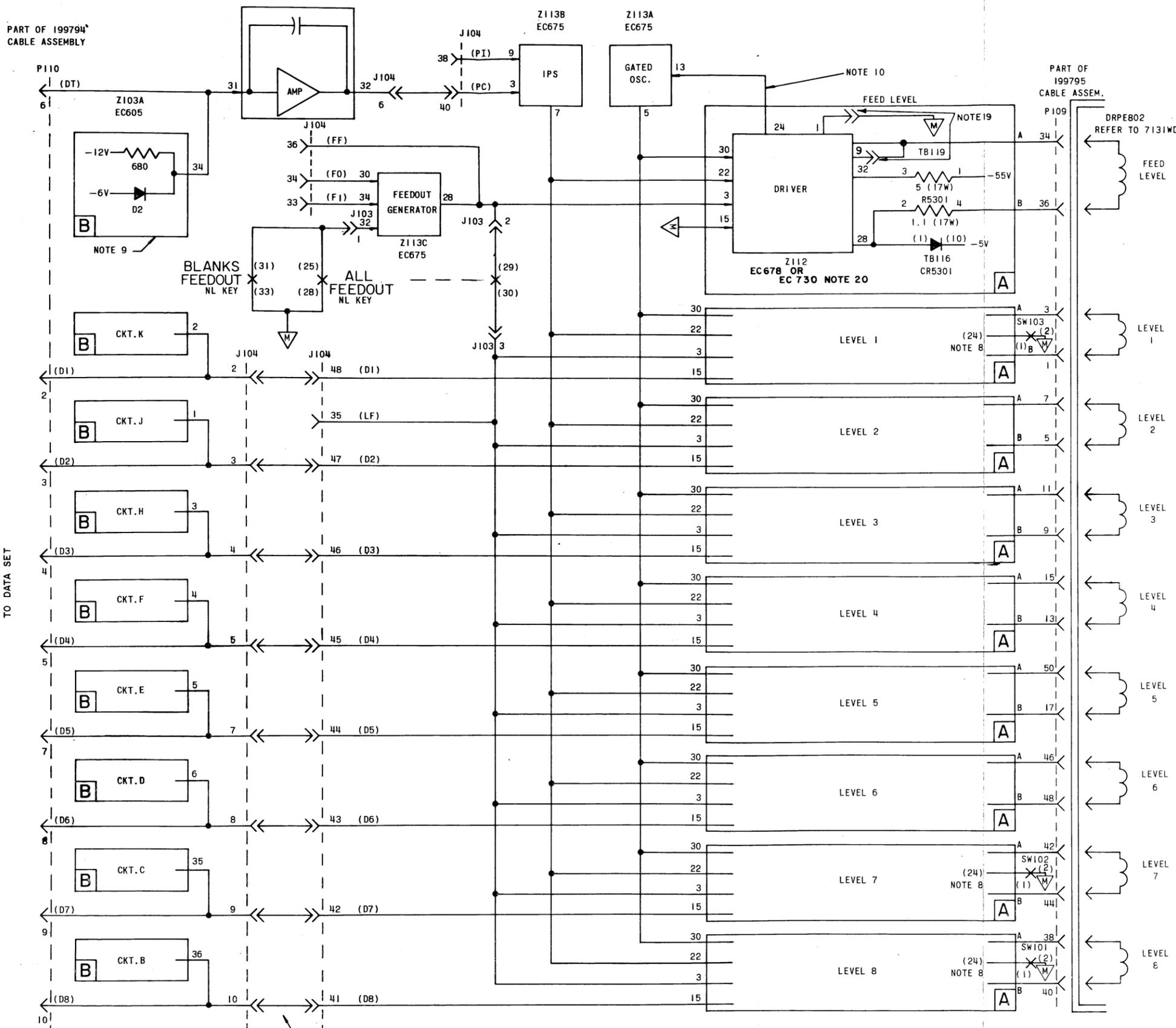
PUNCH LOGIC

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

PART OF 199794 CABLE ASSEMBLY

PART OF 199795 CABLE ASSEM.

TO DATA SET



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

SHEET 1

SCHEMATIC WIRING DIAGRAM FOR TYPE 5 DATA SPEED RECEIVER (VS228 & VS246)

ASSEMBLY NO. 199540

APPROVALS

D AND R E OF M

E-NUMBER

PROD. NO. 6403WD

DATE 9-24-63

P.D. FILE NO. 1-A143AA

DRAWN A.H.P. CHKD.

ENR'D. E.W.S. APPD.

TELETYPE CORPORATION

NO.	NOTES																																																												
1.	REFER TO 8404WD & 6412WD FOR ACTUAL WIRING DIAGRAM.																																																												
2.	ALL VOLTAGES D.C., UNLESS OTHERWISE SPECIFIED.																																																												
3.	TERMINAL DESIGNATIONS ENCLOSED IN PARENTHESES ARE FOR REFERENCE AND ARE NOT MARKED ON COMPONENT.																																																												
4.	ALL RESISTORS ARE 1/2 WATT AND RESISTANCE IN OHMS UNLESS OTHERWISE SPECIFIED																																																												
5.	REFERENCE SPECIFICATION FOR TELETYPE CORPORATION EMPLOYEES ONLY 60803S.																																																												
6.	ZA & ZB WIRING ARE FURNISHED. REMOVE ZA WIRING EXCEPT FOR SERVICE ON INCOMING-ONLY LINES OF ROTARY HUNTING GROUPS. REMOVE ZB WIRING, IF AUTOMATIC ANSWER IS NOT TO BE USED.																																																												
7.	ALL CIRCUIT CARDS WITHIN A CIRCUIT ARE 303730 OR 303678 MAGNET DRIVER CIRCUIT CARDS.																																																												
8.	LEVELS 1, 7, AND 8 HAVE A LEVEL SELECTOR SWITCH WHICH GROUNDS PIN 24																																																												
9.	ALL CIRCUITS DESIGNATED B ARE ON 303605 CIRCUIT CARD ASSEMBLY.																																																												
10.	PIN 13 OF Z113A CONNECTS TO PIN 24 OF Z112 ONLY.																																																												
11.	<table border="1"> <thead> <tr> <th>8 LEVEL</th> <th>5 LEVEL</th> <th>DRIVER</th> <th>RES.</th> <th>DIODE</th> <th>-55 COLOR</th> </tr> </thead> <tbody> <tr> <td>FEED</td> <td>FEED</td> <td>Z112</td> <td>R5301</td> <td>CR5301</td> <td>BR</td> </tr> <tr> <td>1</td> <td>1</td> <td>Z104</td> <td>R5302</td> <td>CR5302</td> <td>O-W</td> </tr> <tr> <td>2</td> <td>1</td> <td>Z105</td> <td>R5303</td> <td>CR5303</td> <td>S</td> </tr> <tr> <td>3</td> <td>2</td> <td>Z106</td> <td>R5304</td> <td>CR5304</td> <td>P</td> </tr> <tr> <td>4</td> <td>3</td> <td>Z107</td> <td>R5305</td> <td>CR5305</td> <td>BL</td> </tr> <tr> <td>5</td> <td>4</td> <td>Z108</td> <td>R5306</td> <td>CR5306</td> <td>G</td> </tr> <tr> <td>6</td> <td>5</td> <td>Z109</td> <td>R5307</td> <td>CR5307</td> <td>Y</td> </tr> <tr> <td>7</td> <td></td> <td>Z110</td> <td>R5308</td> <td>CR5308</td> <td>O</td> </tr> <tr> <td>8</td> <td></td> <td>Z111</td> <td>R5309</td> <td>CR5309</td> <td>R</td> </tr> </tbody> </table>	8 LEVEL	5 LEVEL	DRIVER	RES.	DIODE	-55 COLOR	FEED	FEED	Z112	R5301	CR5301	BR	1	1	Z104	R5302	CR5302	O-W	2	1	Z105	R5303	CR5303	S	3	2	Z106	R5304	CR5304	P	4	3	Z107	R5305	CR5305	BL	5	4	Z108	R5306	CR5306	G	6	5	Z109	R5307	CR5307	Y	7		Z110	R5308	CR5308	O	8		Z111	R5309	CR5309	R
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6	5	Z109	R5307	CR5307	Y																																																								
7		Z110	R5308	CR5308	O																																																								
8		Z111	R5309	CR5309	R																																																								
12.	199793 STRAPPING PLUG																																																												
13.	<p>NETWORK VALUES:</p>																																																												
14.	OPTIONAL EQUIPMENT REPLACES THE STRAPPING PLUG. REFER TO 7098WD AND 7104WD.																																																												
15.	INDICATES MODULE CIRCUIT GROUND.																																																												
16.	ZE WIRING IS FURNISHED BUT IS NOT INSERTED IN POSITIONS 25, 26, & 32. INSERT ZE OPTION WHEN TERMINAL EQUIPMENT IS BEING USED ON A DIALED UP PRIVATE LINE AND THE TRANSMITTER IS USING THE 148558 S.O.P..																																																												
17.	ALL CAPACITORS ARE IN MICROFARADS, UNLESS OTHERWISE SPECIFIED																																																												
18.	<p>NETWORK</p>																																																												
19.	SOME UNITS HAVE STRAPS ADDED BETWEEN CONNECTOR & CIRCUIT CARD ON PINS 1 & 9 ON ALL MAGNET DRIVER CARDS.																																																												
20.	DRIVER CARD CHANGED FROM 303678 TO 303730 AS A PRODUCT IMPROVMENT.																																																												
21.	SOME UNITS HAVE FLASHER CIRCUIT OPERATING ON - 6 VOLTS.																																																												

NOTES 12 & 14

SEE SHEET 1 FOR NOTES.

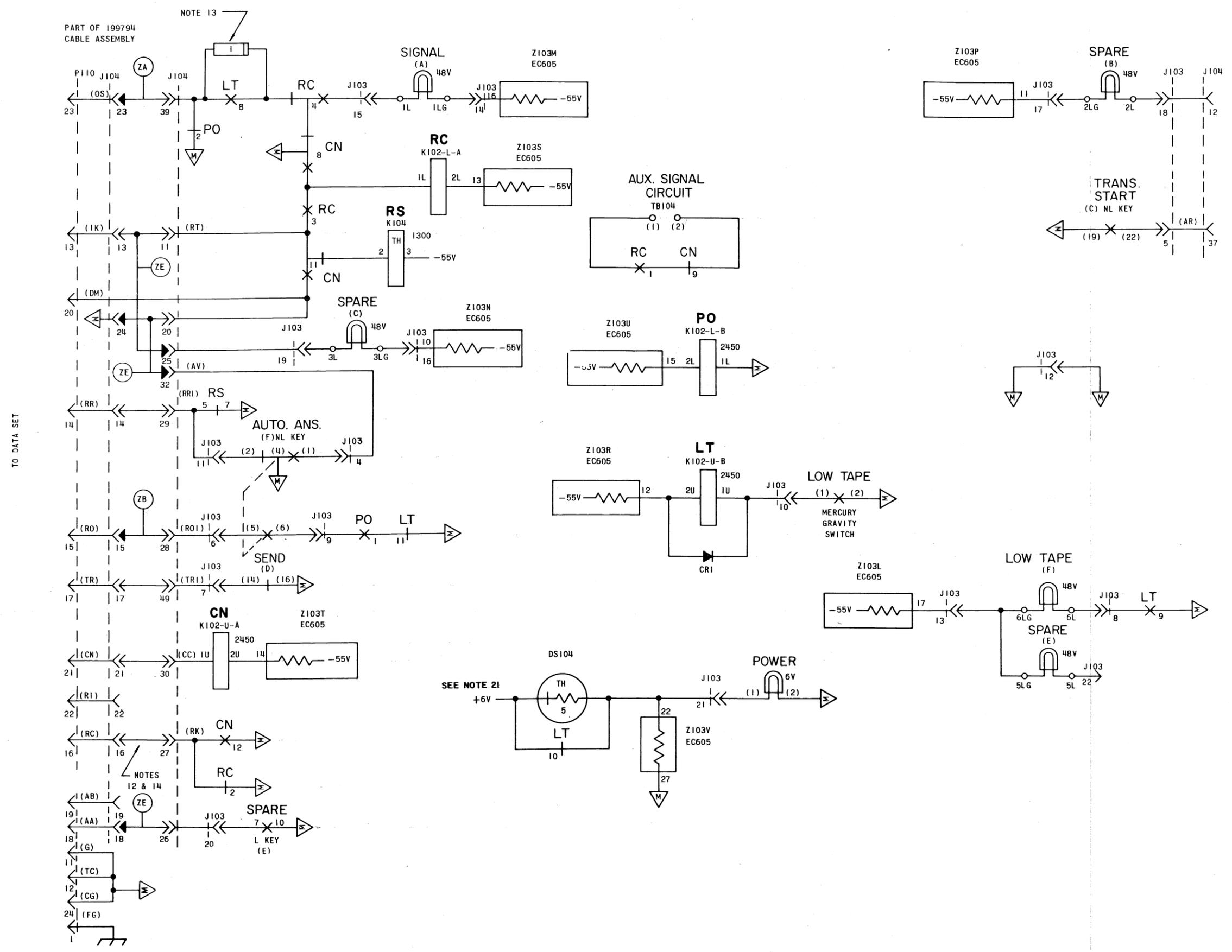
# RELAY LOGIC

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

## 6403WD

### REVISIONS

ISSUE	DATE	AUTH. NO.
2	3-24-64	80039
3	8-28-64	83094
4	10-7-64	84000
5	11-3-64	84263
6	11-9-64	84265
7	11-20-64	84939
8	4-29-65	86363
9	6-29-65	87243
10	9-2-65	88015
11	10-1-65	88979
12	3-28-66	88025
13	11-1-66	88034
14	8-21-67	84496A



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

SHEET 2

### SCHEMATIC WIRING DIAGRAM FOR TYPE 5 DATA SPEED RECEIVER (VS228 & VS246)

ASSEMBLY NO. 199540

#### APPROVALS

D AND R <i>aqc</i>	E OF M
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E-NUMBER	
PROD. NO. 6403WD	
DATE 9-24-63	
P.D. FILE NO. 1-A143AA	
DRAWN A.H.P.	CHKD. <i>aqc</i>
ENGD. E.W.S.	APPD. <i>aqc</i>

TELETYPE CORPORATION

## 6403WD

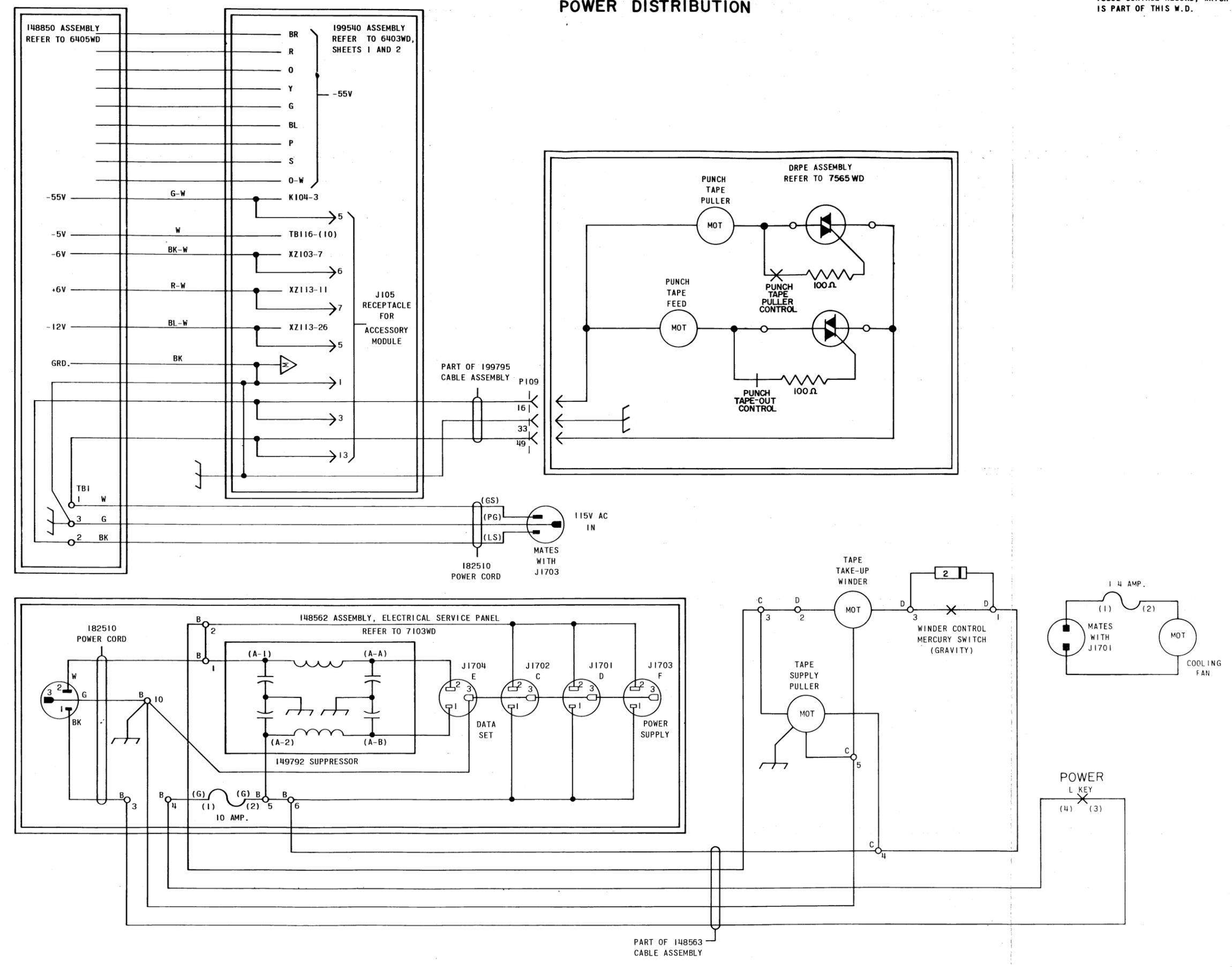
# POWER DISTRIBUTION

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

## 6403 WD

### REVISIONS

ISSUE	DATE	AUTH. NO.
2	11-1-66	88034



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

SHEET 3

### SCHEMATIC WIRING DIAGRAM FOR TYPE 5 DATA SPEED RECEIVER

(VS228 & VS246)  
ASSEMBLY NO. 199540

#### APPROVALS

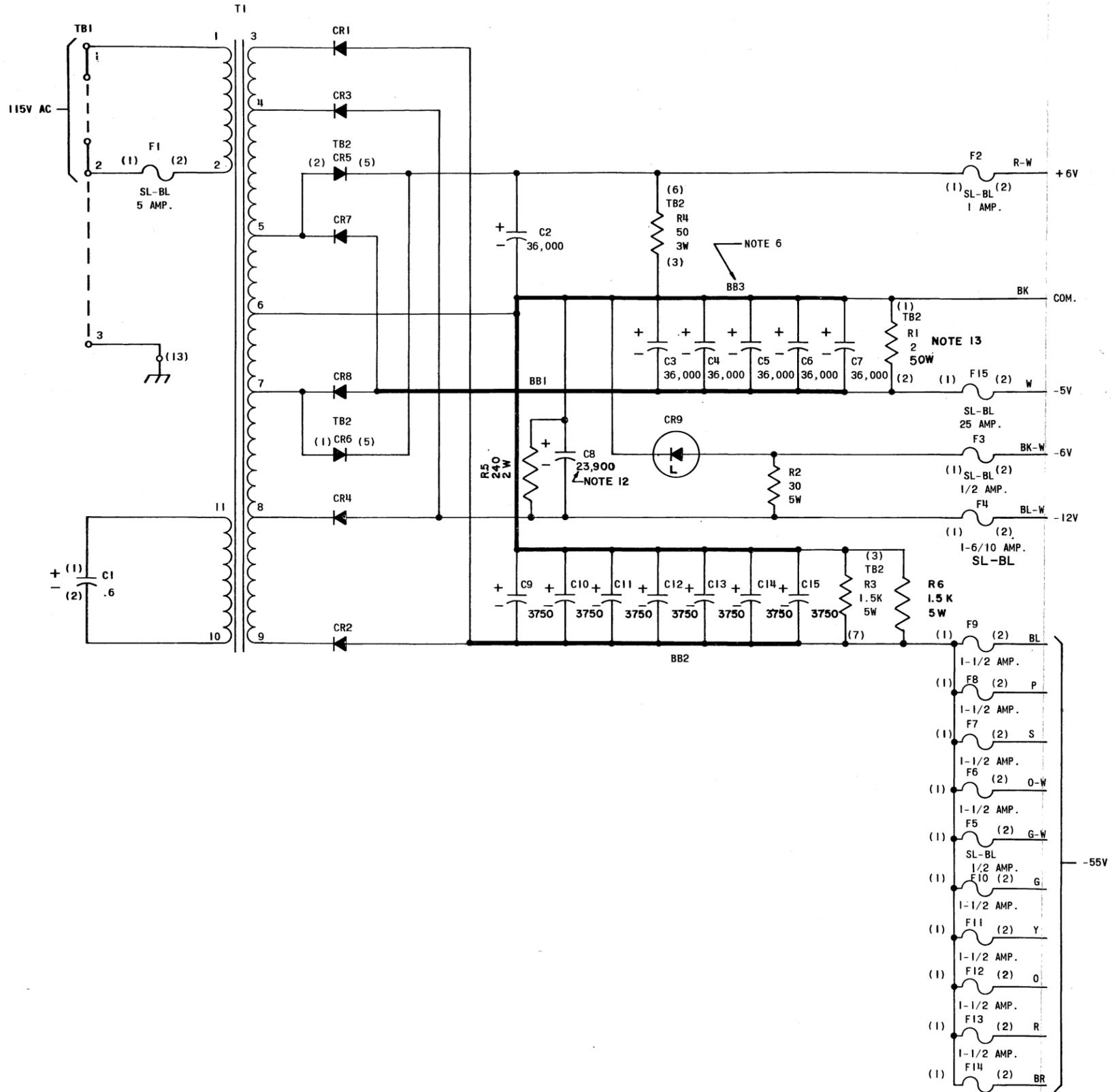
D AND R <i>a.l.</i>	E OF M
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E-NUMBER	
PROD. NO.	6403 WD
DATE	9-24-63
P.D. FILE NO.	1-A143AA
DRAWN	A.H.P. CHKD.
ENGD.	E.W.S. APPD. <i>a.l.</i>

TELETYPE CORPORATION

## 6403 WD

NO	NOTES
1.	REFER TO 6406WD FOR ACTUAL WIRING DIAGRAM.
2.	ALL VOLTAGES DC UNLESS OTHERWISE SPECIFIED.
3.	ALL RESISTANCE VALUES IN OHMS.
4.	TERMINAL DESIGNATIONS ENCLOSED IN PARENTHESES ARE FOR REFERENCE AND ARE NOT MARKED ON COMPONENTS.
5.	ALL CAPACITORS IN MICROFARADS.
6.	BB1, BB2, & BB3 ARE THREE SHORTING PLATES WHICH CONNECT THE CAPACITOR TERMINALS.
7.	REFER TO 148850-52 FOR ASSEMBLY DRAWING.
8.	THE 15 OUTPUT LEADS COMPRISE A 3 FT. CABLE WHICH IS NOT TERMINATED.
9.	SL-BL INDICATES SLOW BLOWING.
10.	
11.	SOME UNITS DO NOT CONTAIN R5 & R6 BLEEDER RESISTORS.
12.	SOME UNITS HAVE A 10,000 MFD. CAPACITOR. (C8)
13.	SOME UNITS HAVE A 148857 2 OHM, 25 WATT RESISTOR.



# 6405WD

## REVISIONS

ISSUE	DATE	AUTH. NO.
2	11-24-64	84989
3	6-3-65	87445
4	2-4-66	89711
5	11-1-66	88034
6	11-23-66	92189-RC
7	11-8-67	94593-3
8	3-20-68	95401
9	7-29-68	94593-1
10	7-30-68	95098-2

### SCHEMATIC WIRING DIAGRAM FOR HISPUC POWER SUPPLY

308480  
ASSEMBLY NO. 148850-52

#### APPROVALS

D AND R	E OF M
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#### E-NUMBER

PROD. NO. 6405WD

DATE 11-25-65

P.D. FILE NO. 1-A143AA

DRAWN G.R.S.	CHKD. <i>[Signature]</i>
ENGD. R.C.H.	APPD. <i>[Signature]</i>

#### TELETYPE CORPORATION

6405WD

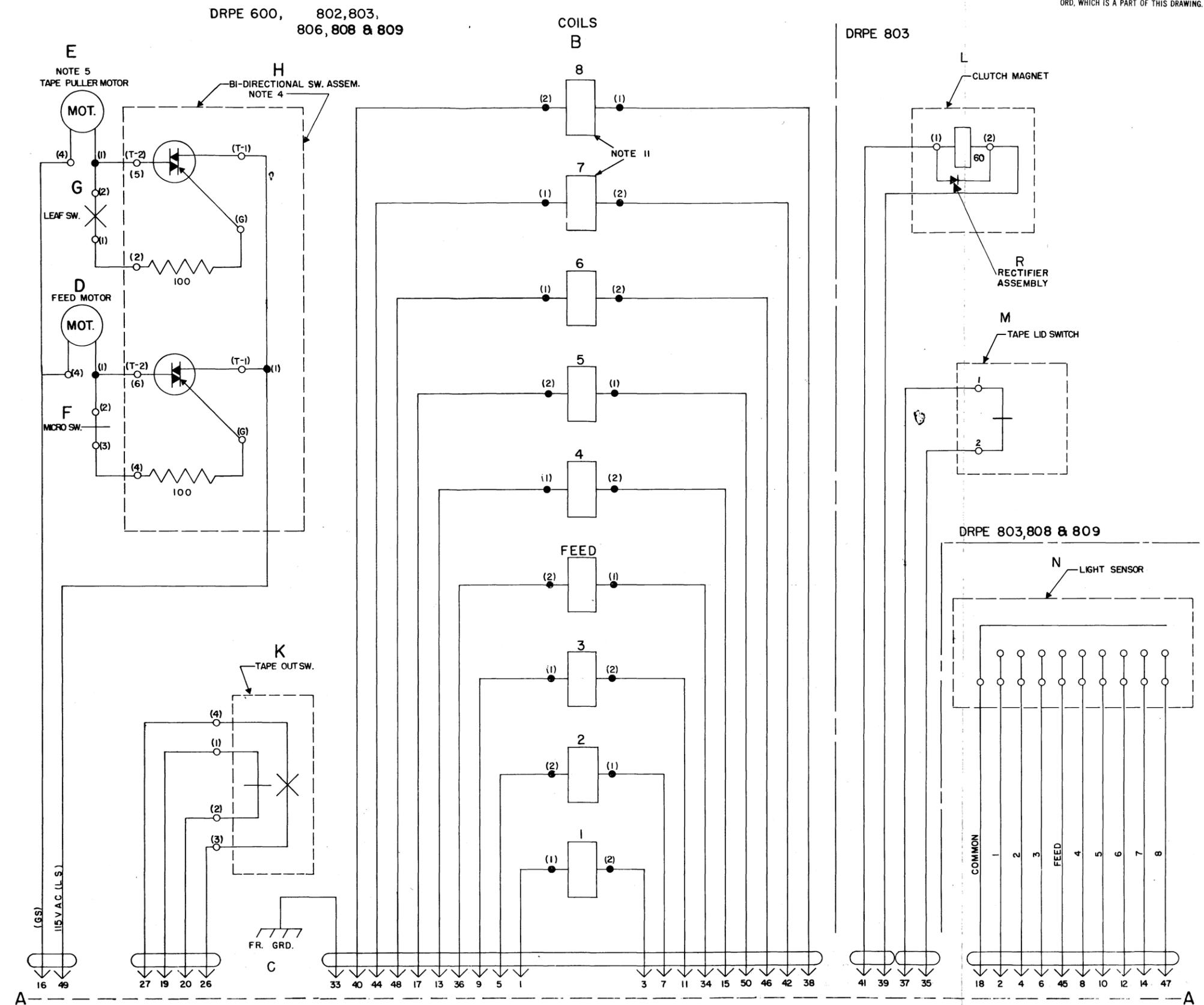
# 7565 WD

## REVISIONS

ISSUE	DATE	AUTH. NO.
1	12-7-65	17418-R
2	5-13-66	90793
3	6-30-66	90900
4	1-5-67	92546
5	2-13-67	93120
6	4-10-67	93135
7	7-31-68	96064

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

- | NO. | NOTES  |
|-----|--|
| 1.  | REFER TO 7558WD FOR ACTUAL WIRING DIAGRAM.   |
| 2.  |  |
| 3.  | DRPE 800 HAS 273 M COIL 5.Ω. RESISTANCE. DRPE 600, 802, 803, 806, 808 & 809 HAVE .283M COILS 1/2 Ω. RESISTANCE.  |
| 4.  | REFER TO 7557WD FOR 147609 BI-DIRECTIONAL SWITCH ASSEMBLY.   |
| 5.  | DRPE 806 & 808 (50 CPS.) USES MOTORS 147615 (FEED) & 147616 (TAPE PULLER). ALL OTHER DRPE'S (60 CPS.) USE MOTORS 177869 (FEED) & 177870 (TAPE PULLER).                                 |
| 6.  | → INDICATES MALE TERMINAL ON RECEPTACLE.   |
| 7.  | ALL RESISTORS 1/2 WATT AND RESISTANCE VALUES IN OHMS, UNLESS OTHERWISE SPECIFIED.  |
| 8.  | ALL VOLTAGES DC UNLESS OTHERWISE SPECIFIED.  |
| 9.  | TERMINAL DESIGNATIONS ENCLOSED IN PARENTHESES ARE FOR REFERENCE AND ARE NOT MARKED ON COMPONENT.   |
| 10. | ASSOCIATED CABLE ASSEMBLY:<br>147607-(TAPE PULLER MOTOR)<br>147594-(TAPE OUT SWITCH-174570)<br>147606-(283M COILS)<br>302863-(308M CLUTCH MAGNET COIL)<br>302450-(LIGHT SENSOR-302943) |
| 11. | DRPE COILS 7 & 8 ARE NOT ON DRPE 600   |



SEE ISSUE CONTROL RECORD FOR COMPLETE LIST OF SHEETS COMPRISING THIS W.D.  
SHEET 1

SCHMATIC WIRING DIAGRAM FOR DRPE 600, 800, 802, 803, 806, 808 & 809

APPROVALS	
D AND R <i>HR</i>	E OF M <i>C-1</i>
E-NUMBER	
PROD. NO. 7565 WD	
DATE 3-29-65	
P.D. FILE NO. 2-35.136AA	
DRAWN R.S.	CHKD. <i>JSP</i>
ENGD. K.R.	APPD. <i>JSP</i>

TELETYPE CORPORATION

# 7565 WD

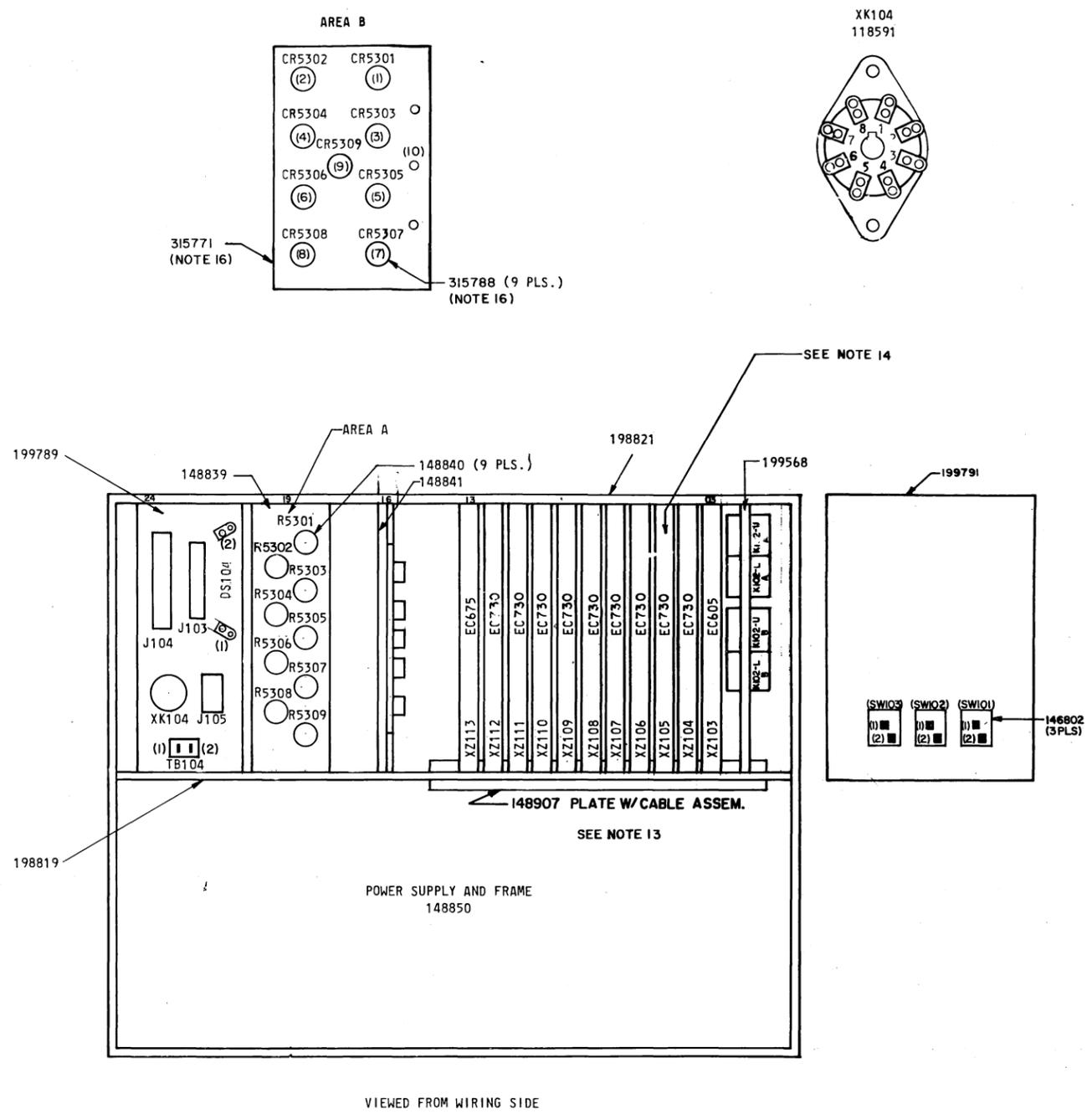




- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- NO. NOTES
- REFER TO 6403WD FOR SCHEMATIC.
  - ALL VOLTAGE DC, UNLESS OTHERWISE SPECIFIED.
  - TERMINAL DESIGNATIONS ENCLOSED IN PARENTHESES ARE NOT MARKED ON THE COMPONENT.
  - ALL SURFACE WIRE 24 GA GREEN, 31784RM, UNLESS OTHERWISE SPECIFIED.
  - ALL STRAPPING WIRE 20 GA BARE, 39522RM. USE SLEEVING WHERE REQUIRED. DO NOT PULL TAUT BETWEEN TERMINALS.
  - INSERT CARDS BEFORE WIRING MODULE
  - \* INDICATES 18 AWG WIRE RM 31773-GR
  - RUBBER STAMP .125 CHARACTERS ON THE CARDS OF THE FOLLOWING RELAYS IN WHITE INK.
 

RELAY	STAMPING
K102-U-A	CN
K102-L-A	RC
K102-U-B	LT
K102-L-B	PO
  - USE DOUBLE STRAPPING WHEN STRAPPING BETWEEN NO. 1 TERMINALS OF CARD CONNECTORS.
  - WIRING STATUS:  
RECTANGULAR BOX INDICATES HISTORY OF WIRING CHANGES  

00-B	B-DENOTES WIRING BEFORE THE CHANGE DESCRIBED BY THE DESIGNATED NOTE ENTERED THE PRODUCT.
NOTE NUMBER	
00-A	A-DENOTES WIRING AFTER THE CHANGE DESCRIBED BY THE DESIGNATED NOTE ENTERED THE PRODUCT.
  - SOME RECEIVER MODULE WIRING REROUTED, DASHED LINES WITH WIRING STATUS NOTE INDICATE WIRING PRIOR TO CHANGE.
  - SOME UNITS EQUIPPED WITH 148440 CONNECTOR INSTEAD OF 148846 CONNECTOR.
  - SOME UNITS EQUIPPED WITH 148907 PLATE WITH CABLE ASSEM. UNITS SHIPPED WITH 303730 CIRCUIT CARDS DO NOT CONTAIN 148907 PLATE W/CABLE ASSEMBLY.
  - SOME UNITS EQUIPPED WITH 303678 CIRCUIT CARDS.
  - SOME UNITS HAVE FLASHER CIRCUIT OPERATING ON-6VOLTS.
  - ON ISSUE 15, THE PART NUMBER OF DIODES CR5301 THRU CR5309 WAS 148843 AND THE PART NUMBER OF THE DIODE PLATE WAS 148842.



6404 WD

REVISIONS

ISSUE	DATE	AUTH. NO.
2	3-23-64	80039
3	8-28-64	83084
4	2-19-65	86191
5	4-21-65	86360
6	6-29-65	88013
7	9-2-65	88015
8	10-1-65	88978
9	10-22-65	88334
10	5-25-66	90274
11	6-6-66	88029
12	8-5-66	90274-1
13	5-11-67	92196
14	7-7-67	94248
15	8-21-67	94494A
16	5-1-69	96773

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

SEE ISSUE CONTROL RECORD FOR COMPLETE LIST OF SHEETS COMPRISING THIS SHEET 3.

ACTUAL WIRING DIAGRAM FOR TYPE 5 DATA SPEED RECEIVER MODULE VS228 & VS246

ASSEM. NO. 199540

APPROVALS

D AND R	E OF M
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E-NUMBER

PROD. NO. 6404WD

DATE 11-28-63

P.D. FILE NO. 1-A143AA

DRAWN G.R.S. CHKD.

ENGD. R.C.H. APPD.

TELETYPE CORPORATION

6404 WD



6406 WD

REVISIONS

ISSUE	DATE	AUTH. NO.
2	10-7-64	84000
3	11-20-64	84989
4	10-22-65	88250
5	2-4-66	89711
6	11-1-66	88034
7	11-8-67	94593-B
8	3-20-68	95401
9	7-30-68	94593-I-R

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

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

SHEET 1

ACTUAL WIRING DIAGRAM FOR HISPUC POWER SUPPLY

ASSEMBLY NO. 148850-92

APPROVALS

R AND D  
E OF M

E-NUMBER

PROD. NO. 6406WD

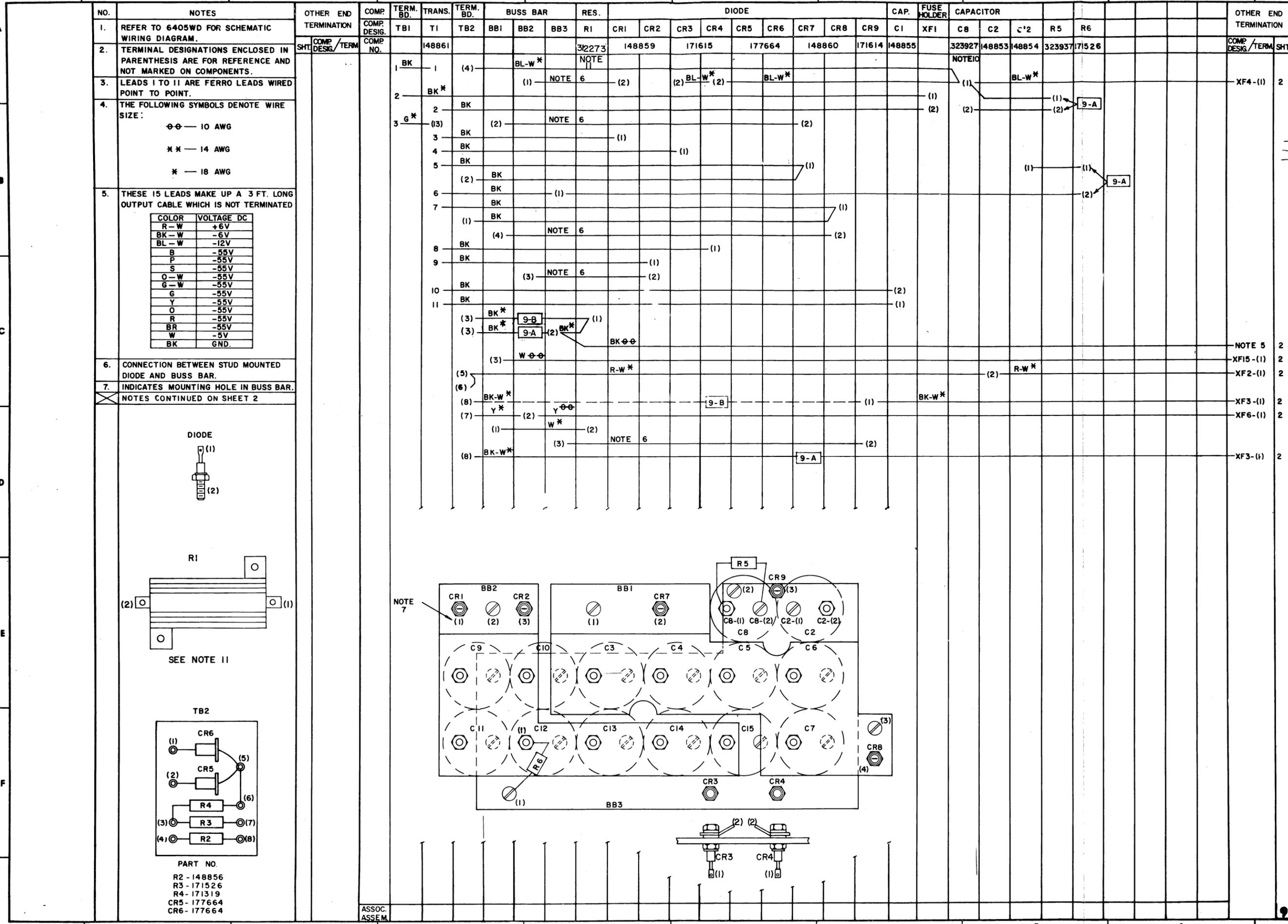
DATE 11-29-63

P.D. FILE NO. 1-A143AA

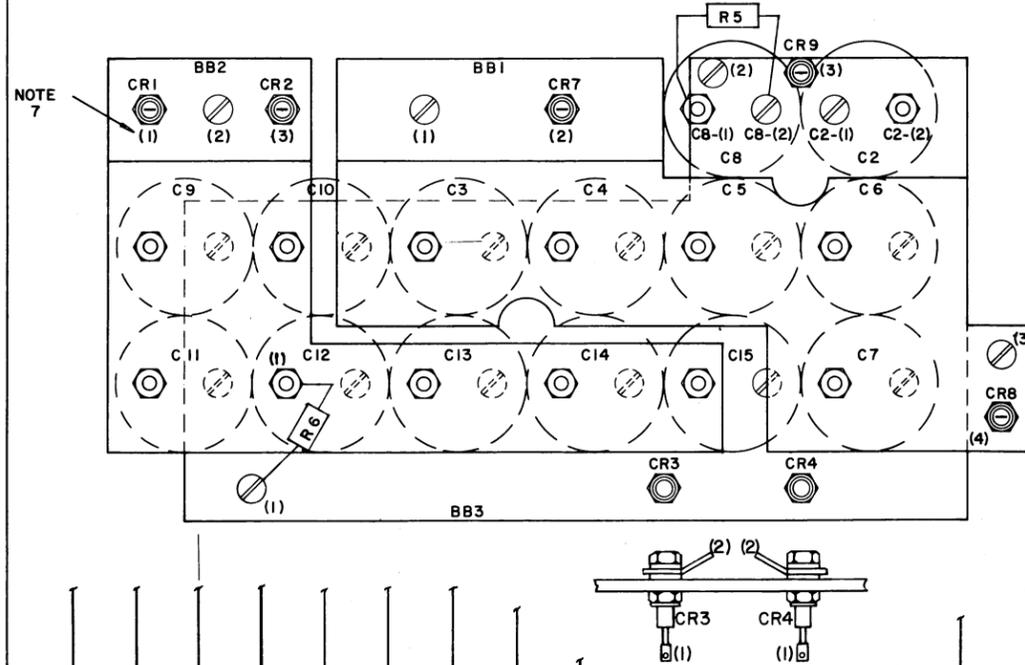
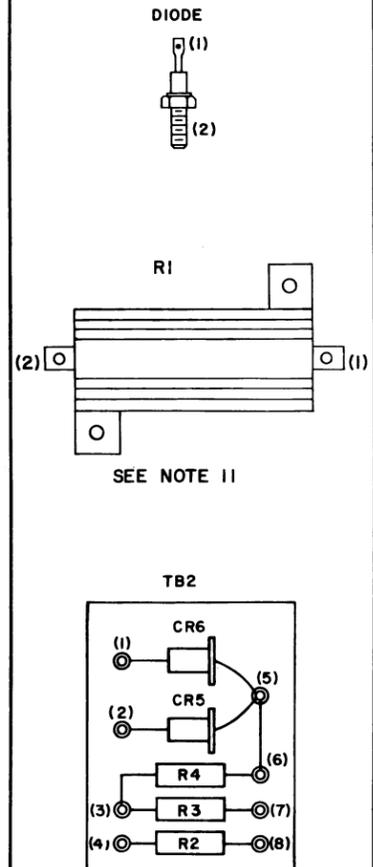
DRAWN GRS  
ENG. R.C.H.  
CHKD. [Signature]  
APPD. [Signature]

TELETYPE CORPORATION

6406 WD



COLOR	VOLTAGE DC
R-W	+6V
BK-W	-6V
BL-W	-12V
B	-55V
P	-55V
S	-55V
O-W	-55V
G-W	-55V
G	-55V
Y	-55V
O	-55V
R	-55V
BR	-55V
W	-5V
BK	GND.



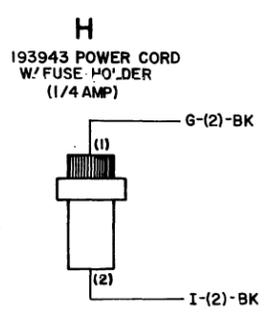
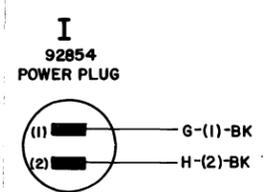
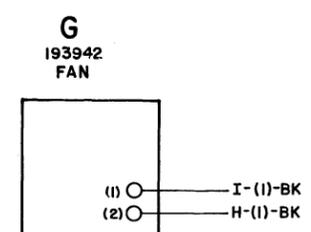
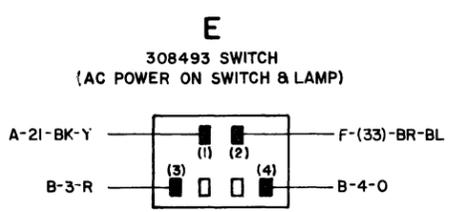
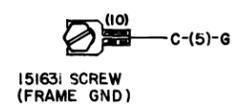
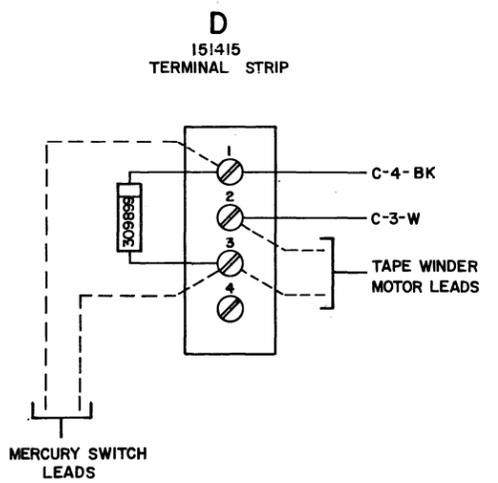
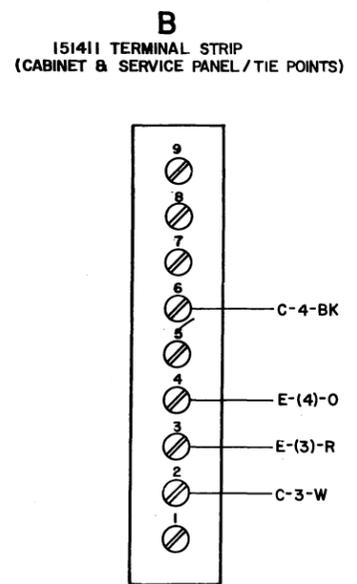
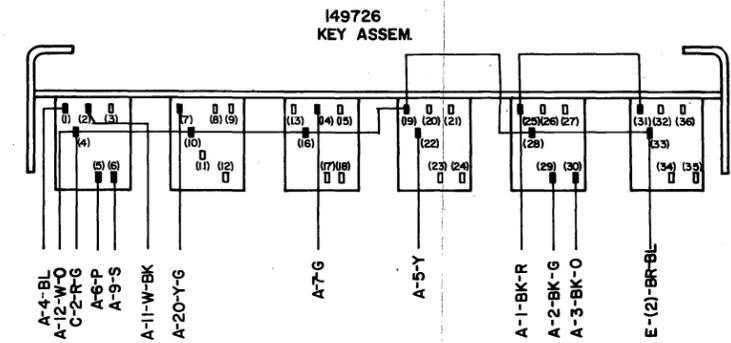
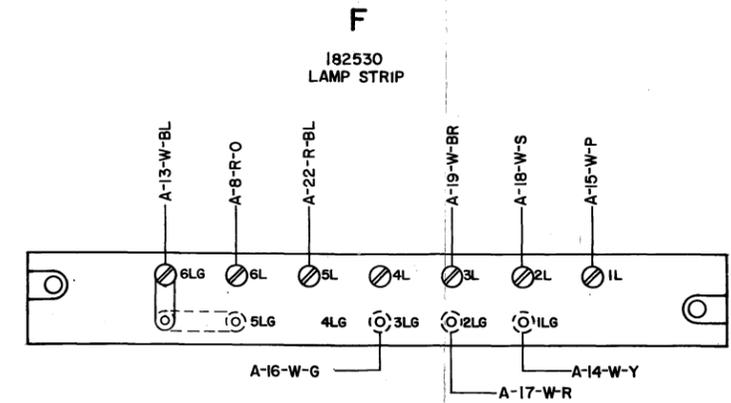
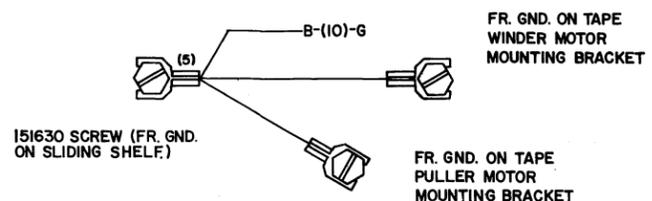
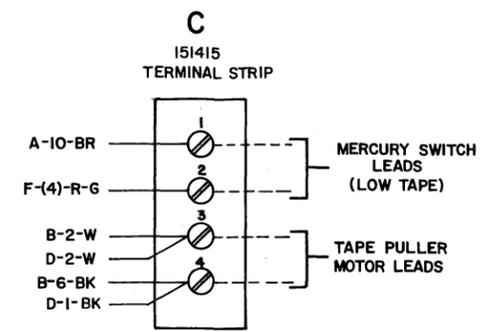
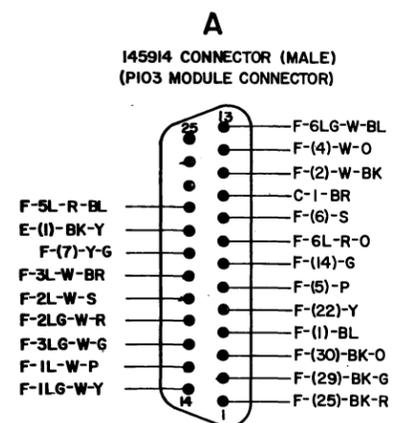


# 6412 WD

## REVISIONS

ISSUE	DATE	AUTH. NO.
1	2-22-65	16407-R
2	4-26-65	86736
3	8-4-65	88340
4	11-30-65	89110
5	12-19-66	88031

- NO. NOTES**
- WIRING LEGEND**  
 DISTANT TERMINATING AREA  
 DISTANT TERMINATING DESIGNATION  
 WIRE COLOR CODE  
 A-1-BK
  - COLOR CODE LEGEND**  
 W - WHITE      P - PURPLE  
 G - GREEN      Y - YELLOW  
 R - RED        BL - BLUE  
 S - SLATE      BK - BLACK  
 O - ORANGE    BR - BROWN
  - REFER TO 6403 WD FOR SCHEMATIC WIRING DIAGRAM.
  - TERMINAL DESIGNATIONS IN PARENTHESIS ( ) ARE FOR REFERENCE ONLY AND NOT MARKED ON COMPONENT.
  - ALL CONNECTORS ARE VIEWED FROM WIRING SIDE.



ACTUAL WIRING DIAGRAM FOR AC356 DATA SPEED RECEIVER TERMINALS

**APPROVALS**

D AND R <i>AK</i>	E OF M <i>[Signature]</i>
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**E-NUMBER**

**PROD. NO.** 6412 WD

**DATE** 12-17-64

**P.D. FILE NO.** 1-A143AA

**DRAWN** G.R.S.      **CHKD.** *[Signature]*

**ENG. R.C.H.**      **APPD.** *[Signature]*

**TELETYPE CORPORATION**

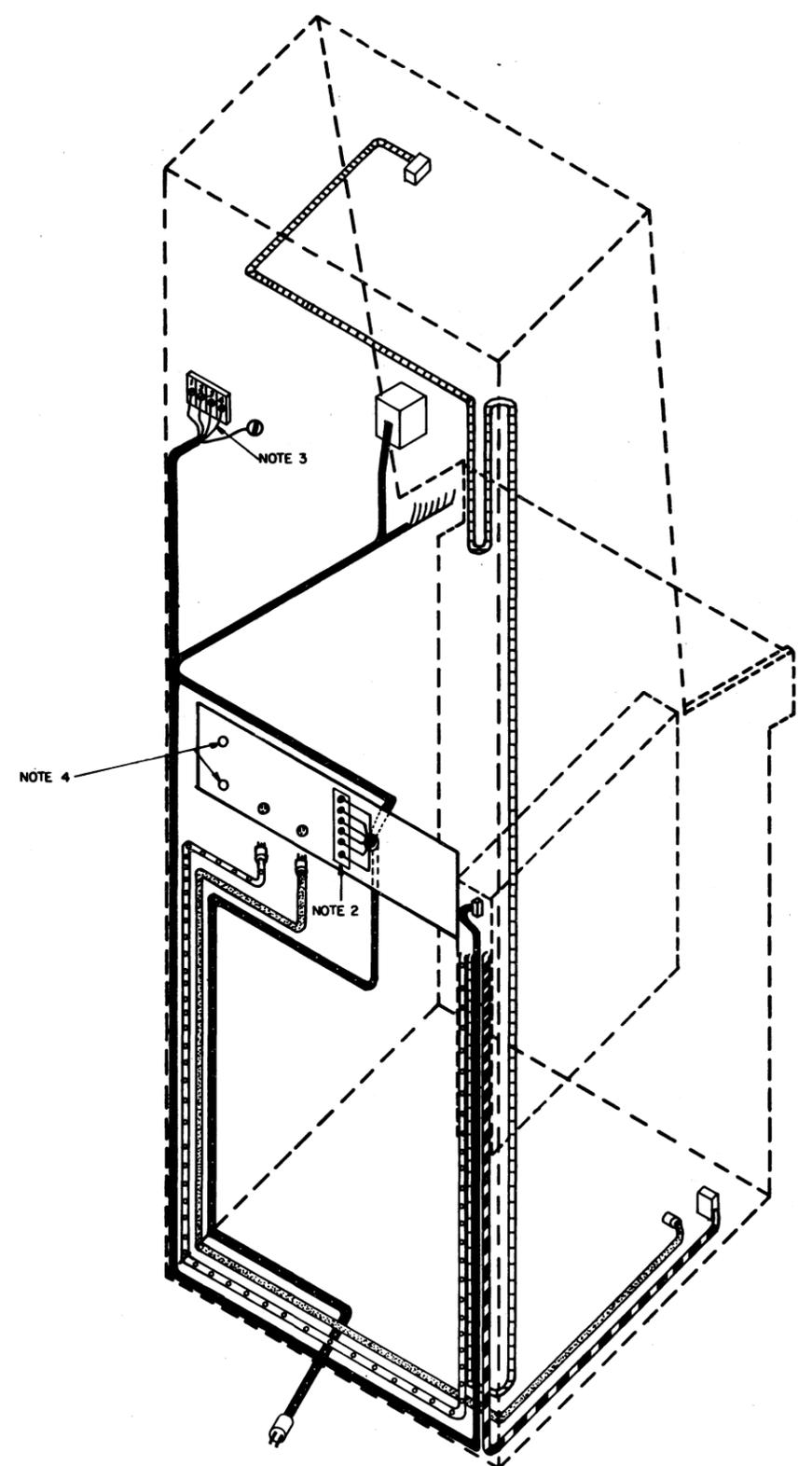
# 6412 WD

6448WD

REVISIONS

ISSUE	DATE	AUTH. NO.
2	9-29-64	83088
3	10-1-65	88979
4	6-8-66	91025

- | NO. | NOTES  |
|-----|--|
| 1.  | COLOR CODE:<br>BK - BLACK<br>W - WHITE<br>R - RED<br>O - ORANGE<br>BR - BROWN<br>R-G - RED-GREEN           |
| 2.  | CONNECT<br>BK TO TERMINAL 6<br>O TO TERMINAL 4<br>R TO TERMINAL 3<br>W TO TERMINAL 2                       |
| 3.  | CONNECT<br>W TO TERMINAL 3<br>BK TO TERMINAL 4<br>BR TO TERMINAL 1<br>R-G TO TERMINAL 2<br>G TO FRAME GRD. |
| 4.  | HOLES PROVIDED FOR WESTERN ELECTRIC<br>44A TERMINAL BOARD.   |



CABLE LEGEND

	148563
	199794
	DATA SET POWER CORD
	199795
	165239
	182510

ACTUAL  
WIRING DIAGRAM  
FOR  
TYPE 5 DATA SPEED  
RECEIVER CABINET  
VS228  
VS246

APPROVALS

D AND R <i>HJK</i>	E OF M <i>[Signature]</i>
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E-NUMBER

PROD. NO. 6448WD

DATE 11-27-63

R.D. FILE NO. 1-A143AA

DRAWN G.R.S. CHKD.

ENGD. R.C.H. APPD.

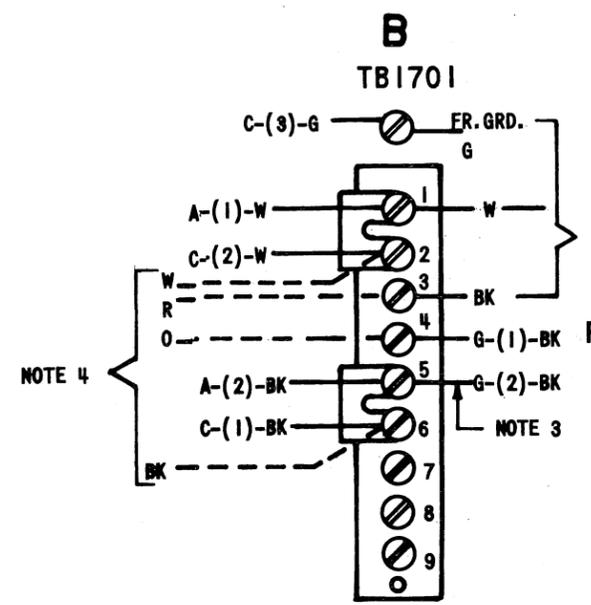
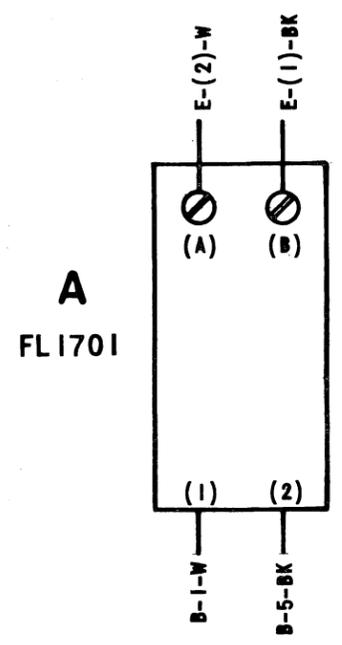
TELETYPE  
CORPORATION

6448WD

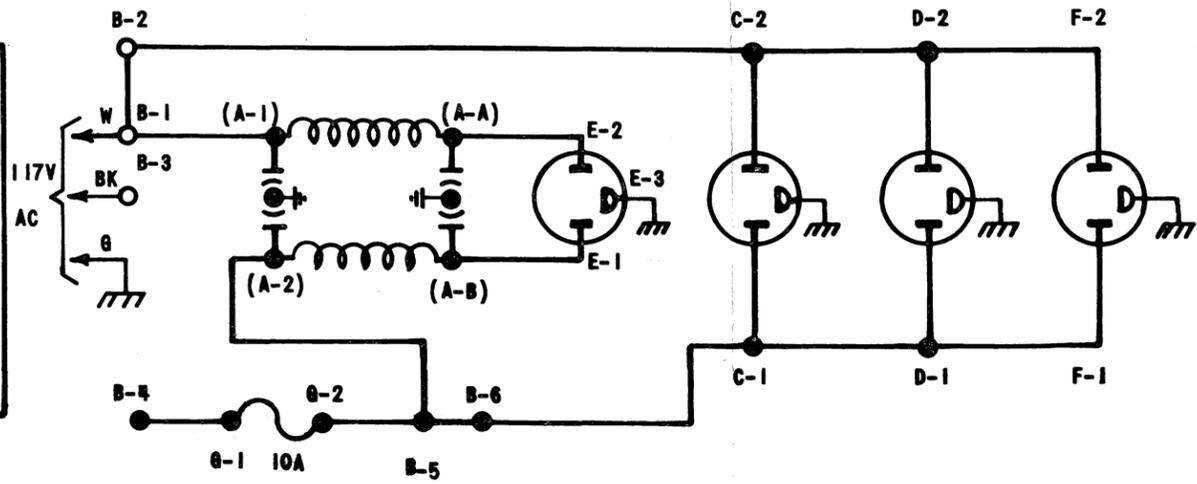
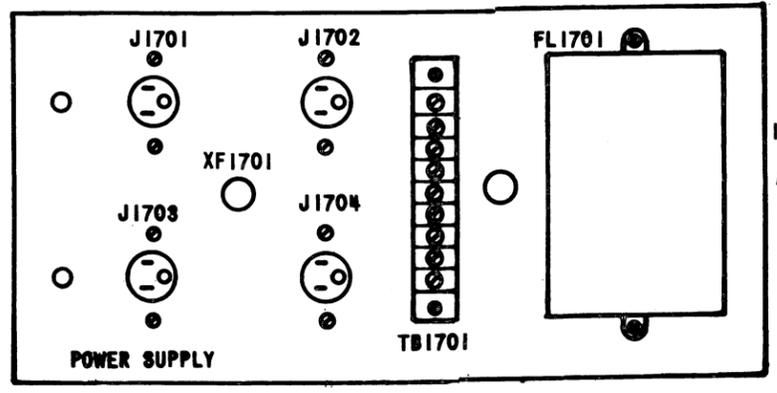
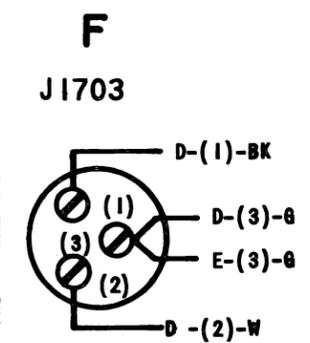
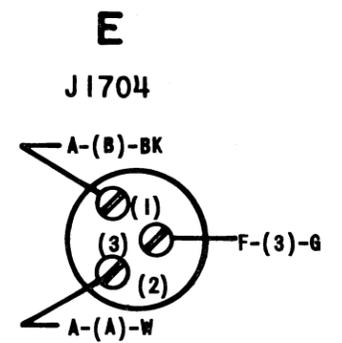
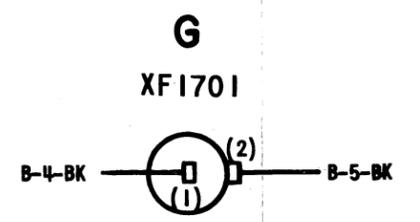
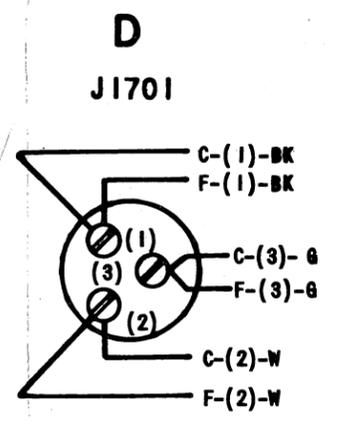
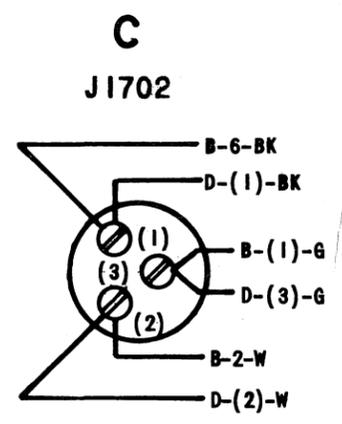
REVISIONS

ISSUE	DATE	AUTH. NO.
2	8-28-64	83084
3	10-7-64	84000

- NO. NOTES**
- WIRING LEGEND:**  
 - DISTANT TERMINATING AREA  
 - DISTANT TERMINATING DESIGNATION  
 R-12-BL  
 WIRE COLOR CODE
  - TERMINAL DESIGNATIONS ENCLOSED IN PARENTHESES ARE NOT MARKED ON THE COMPONENT.**
  - 148574 CABLE ASSEMBLY.
  - 148563 FOR AC356 OR 148564 FOR AC364.
  - COLOR CODE:**  
 BK-BLACK      BL-BLUE  
 BR-BROWN     R-RED  
 G-GREEN        Y-YELLOW  
 P-PURPLE       O-ORANGE  
 S-SLATE        W-WHITE



117V AC  
60~  
182510  
POWER CORD



ACTUAL  
WIRING DIAGRAM  
FOR  
ELECTRICAL  
SERVICE PANEL  
ASSEM. NO. 148562

APPROVALS

D AND R      E OF M  
*HYK*      *[Signature]*

E-NUMBER

PROD. NO. 7103WD

DATE: 11-18-63

P.D. FILE NO. 1-A145AA

DRAWN G.R.S.      CRED.

ENGD. R.C.H.      APPD. *[Signature]*

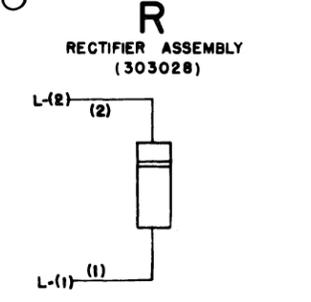
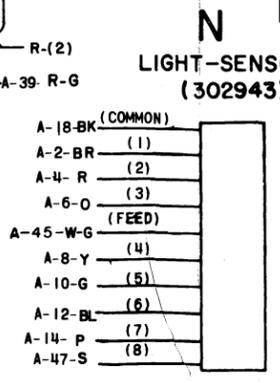
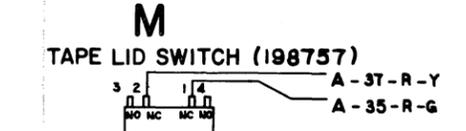
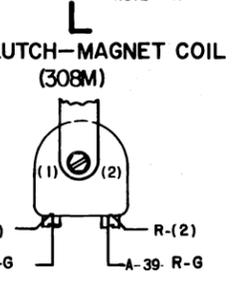
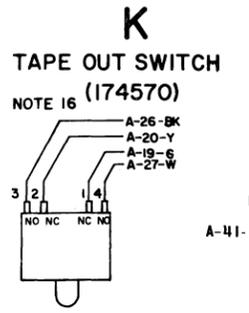
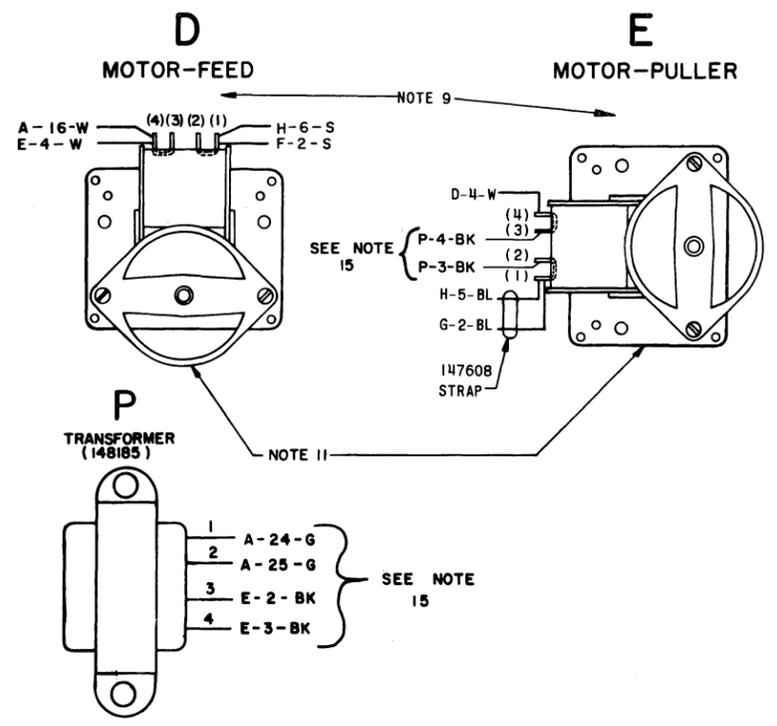
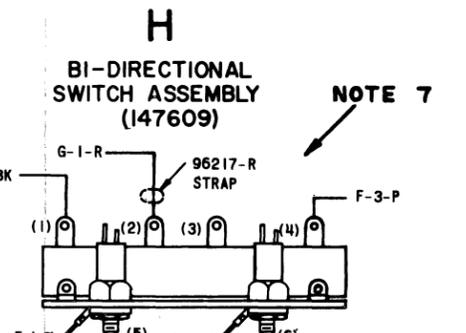
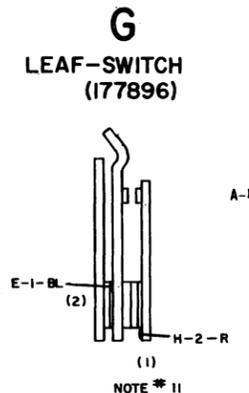
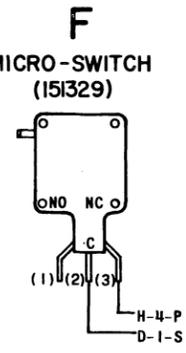
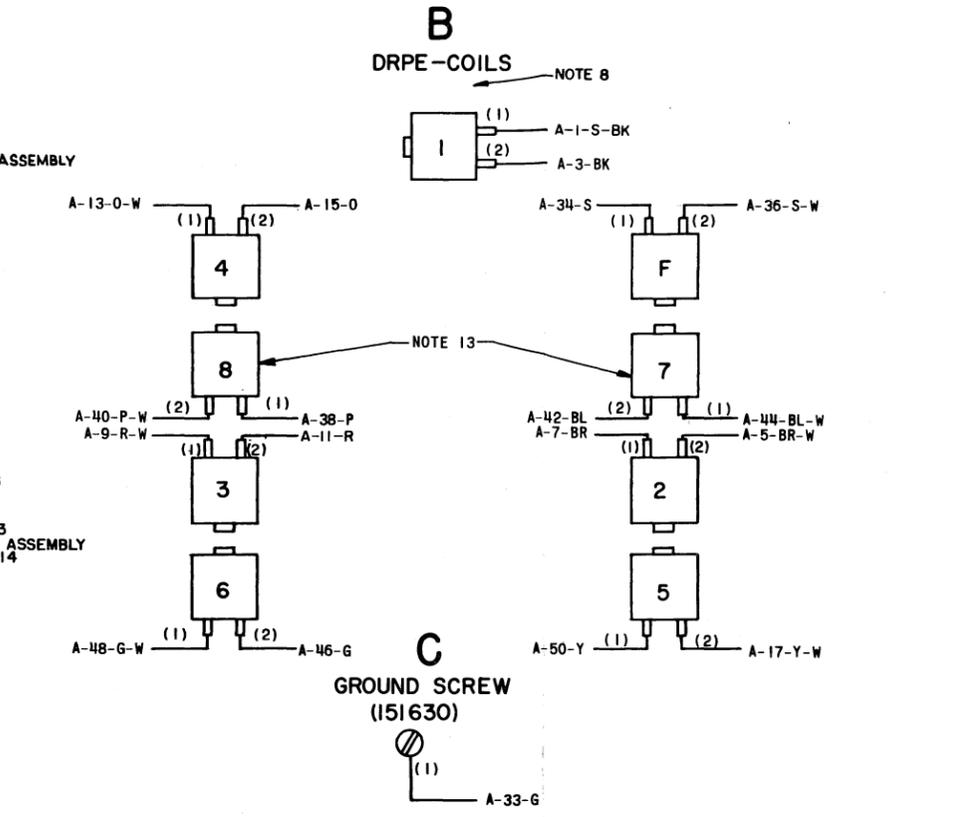
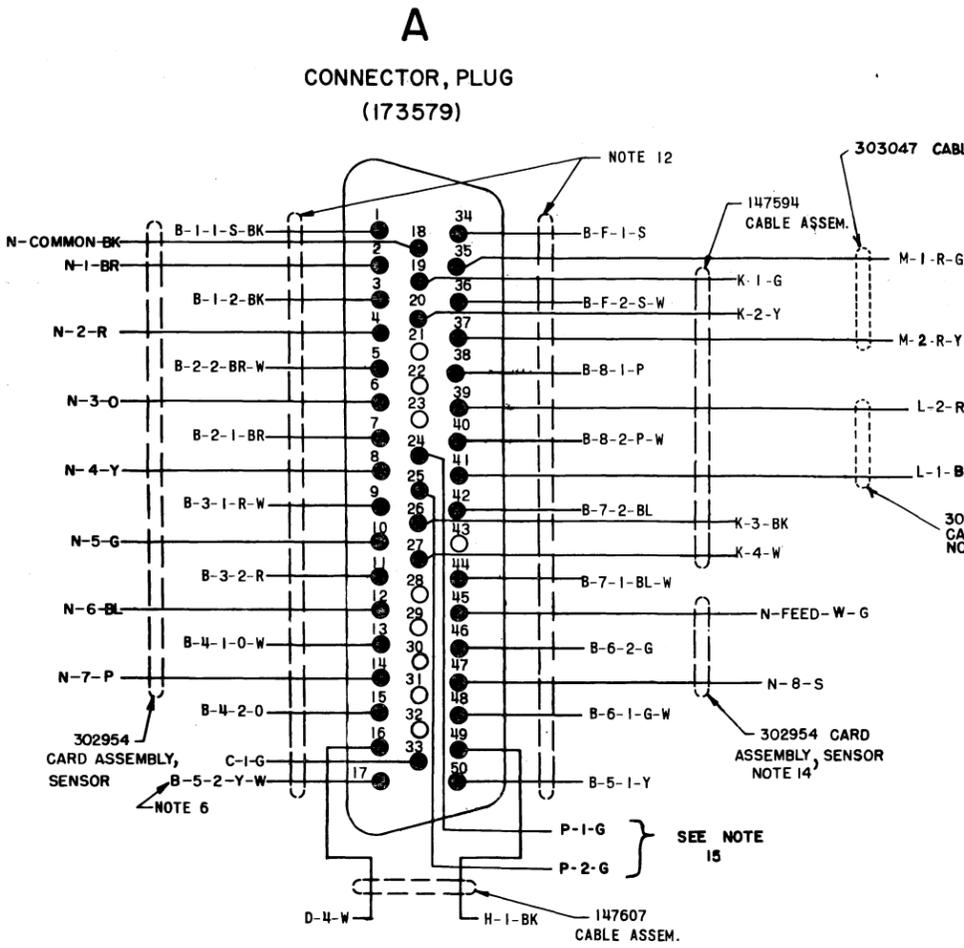
TELETYPE CORPORATION

## REVISIONS

ISSUE	DATE	AUTH. NO.
1	4-8-65	16904-R
2	9-25-65	88447
3	3-12-66	89632
4	5-13-66	90793
5	6-30-66	90900
6	1-5-67	92548
7	2-13-67	93120
8	4-7-67	93155
9	1-2-68	93837
10	7-31-68	96064

- NOTES**
- LEGEND:
  - COLOR  

BK-BLACK	W-WHITE
BL-BLUE	R-RED
BR-BROWN	O-ORANGE
G-GREEN	P-PURPLE
S-SLATE	Y-YELLOW
  - NO. 1, 4, F, 8 AND 7 INDICATES LOWER LEVELS ON DRPE PUNCH.  
 NO. 3, 2, 6 AND 5 INDICATES UPPER LEVELS ON DRPE PUNCH.
  - USE SLEEVING TO INSULATE WHERE NECESSARY.
  - TERMINAL DESIGNATIONS ENCLOSED IN PARENTHESES ARE FOR REFERENCE AND ARE NOT MARKED ON COMPONENT.
  - WIRING LEGEND; MAGNETS ONLY:
  - REFER TO 7557WD FOR 147609 BI-DIRECTIONAL SW. ASSEMBLY.
  - DRPE800 REQUIRES 273M COILS DRPE600, 802, 803, 808 & 809, 806 REQUIRE 283M COILS.
  - DRPE806 & 808 (50CPS) USE MOTORS 147615 (FEED) & 147616 (TAPE PULLER) ALL OTHER DRPE'S USE MOTORS 177869 (FEED) & 177870 (TAPE PULLER).
  - REFER TO 7565WD FOR SCHEMATIC.
  - MOTORS AND LEAF SWITCH ARE VIEWED FROM THE REAR.
  - 147606 CABLE ASSEMBLY IS USED ON DRPE802, 803, 808 & 809, 806  
 147576 CABLE ASSEMBLY IS USED ON DRPE 600 ONLY.
  - DRPE COILS 7 AND 8 ARE NOT ON DRPE600.
  - THE (308M) MAGNET COIL, (198757) TAPE LID SWITCH AND (302943) LIGHT SENSOR ARE NOT REQUIRED ON THE DRPE 600, 800, 802 & 806
  - USED ON DRPE 800 ONLY EITHER WIRE OF SAME COLOR MAY CONNECT TO EITHER PIN.
  - 174570 TAPE OUT SWITCH IS NOT USED ON DRPE803

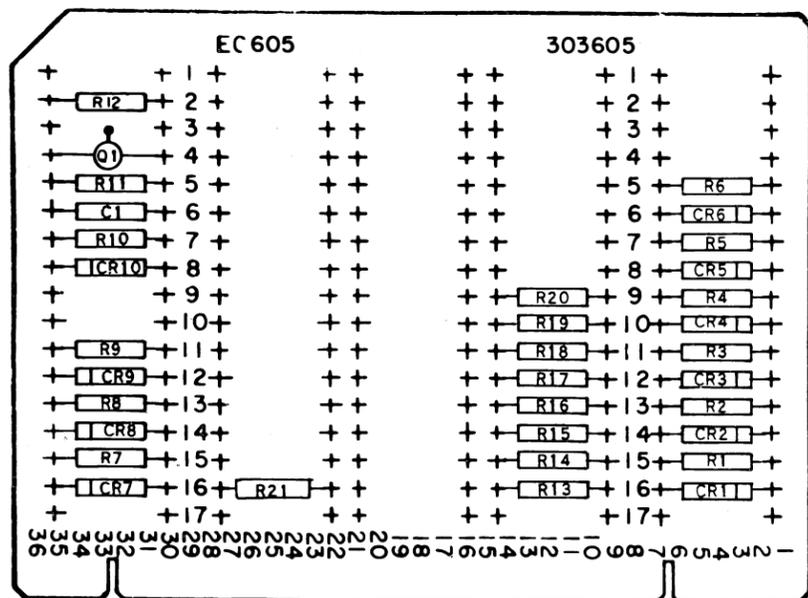


ACTUAL WIRING DIAGRAM FOR DRPE600, 800, 802, 803, 806, 808 & 809

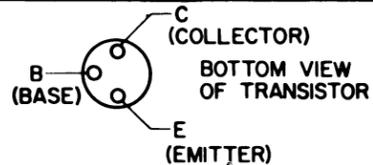
APPROVALS  
 D AND R E OF M

E-NUMBER  
 PROD. NO. 7558WD  
 DATE 11-23-64  
 P.D. FILE NO. 2-35.136  
 DRAWN R.F. CHKD. [Signature]  
 ENGD. K.R. APPD. [Signature]

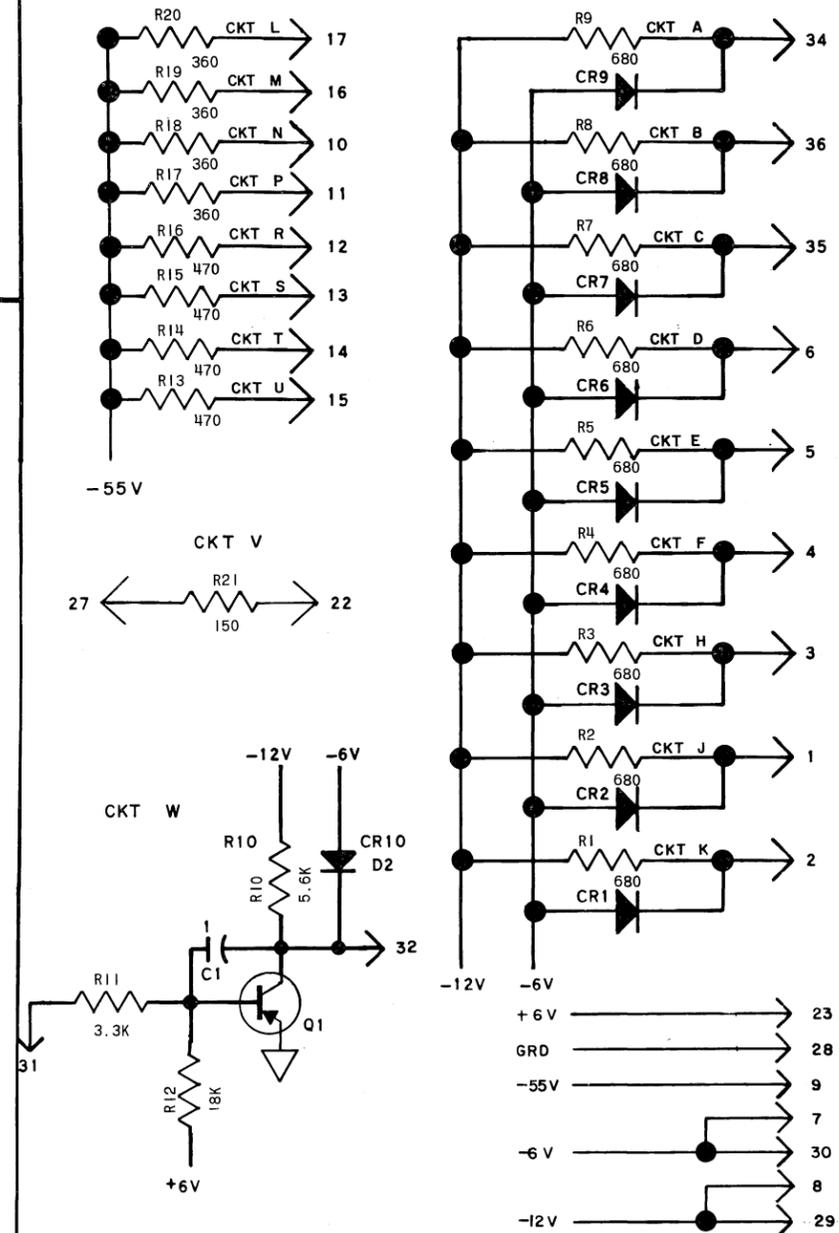
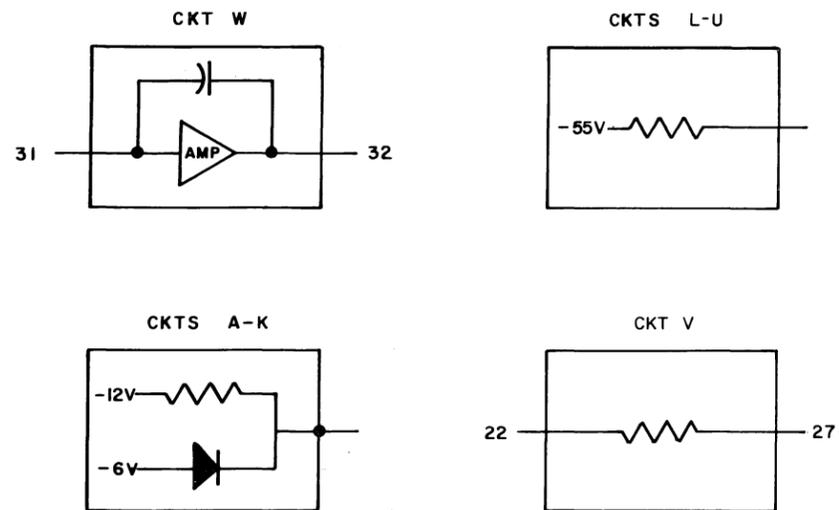
TELETYPE CORPORATION  
**7558WD**



NOTE: REFER TO 6050WD FOR BASIC MARKING INFORMATION



THIS CARD CONSISTS OF THREE INDEPENDENT CIRCUITS. THE FIRST IS BIAS NETWORK CONSISTING OF NINE DIODES AND NINE RESISTORS. THE SECOND IS NINE CURRENT LIMITING RESISTORS TO -55 VOLTS. THE THIRD IS A PNP SLOW INVERTER. THE PHASE INVERTER IS A COMMON EMITTER AMPLIFIER WHICH PROVIDES AN INVERTED OUTPUT. Q1 HAS A REVERSED BIAS OF +6 VOLTS AND THE COLLECTOR IS CLAMPED AT -6 VOLTS BY CR10. WITH A NEGATIVE 6 VOLTS APPLIED AT 31, Q1 IS DRIVEN INTO SATURATION. CAPACITOR C1 CAUSES THE CIRCUIT TO REJECT SHORT-DURATION INPUT PULSES.



CIRCUIT BOARD EC 605

REF DESIG	TELETYPE PART NO.	TOTAL QTY.	NAME AND DESCRIPTION	LOCATING FUNCTION
R1	129850	9	RESISTOR, FIXED 680Ω	DIVIDER
R2			SAME AS R1	DIVIDER
R3			SAME AS R1	DIVIDER
R4			SAME AS R1	DIVIDER
R5			SAME AS R1	DIVIDER
R6			SAME AS R1	DIVIDER
R7			SAME AS R1	DIVIDER
R8			SAME AS R1	DIVIDER
R9			SAME AS R1	DIVIDER
R10	118186	1	RESISTOR, FIXED 5.6KΩ	COLLECTOR LOAD
R11	129851	1	RESISTOR, FIXED 3.3KΩ	BASE BIAS
R12	118151	1	RESISTOR, FIXED 18KΩ	BASE BIAS
R13	137602	4	RESISTOR, FIXED 470Ω	CURRENT LIMITING
R14			SAME AS R13	CURRENT LIMITING
R15			SAME AS R13	CURRENT LIMITING
R16			SAME AS R13	CURRENT LIMITING
R17	143669	4	RESISTOR, FIXED 360Ω	CURRENT LIMITING
R18			SAME AS R17	CURRENT LIMITING
R19			SAME AS R17	CURRENT LIMITING
R20			SAME AS R17	CURRENT LIMITING
R21	143658	1	RESISTOR, FIXED 150Ω	
CR1	177108	10	DIODE D2	
CR2			SAME AS CR1	
CR3			SAME AS CR1	
CR4			SAME AS CR1	
CR5			SAME AS CR1	
CR6			SAME AS CR1	
CR7			SAME AS CR1	
CR8			SAME AS CR1	
CR9			SAME AS CR1	
CR10			SAME AS CR1	CLAMP
C1	148833	1	CAPACITOR .1 MFD	TIMING
Q1	177105	1	TRANSISTOR, P22	INVERTER
EC	199783	1	CIRCUIT CARD, ETCHED	
	144495	1	PAD, TRANSISTOR	

303605

REVISIONS

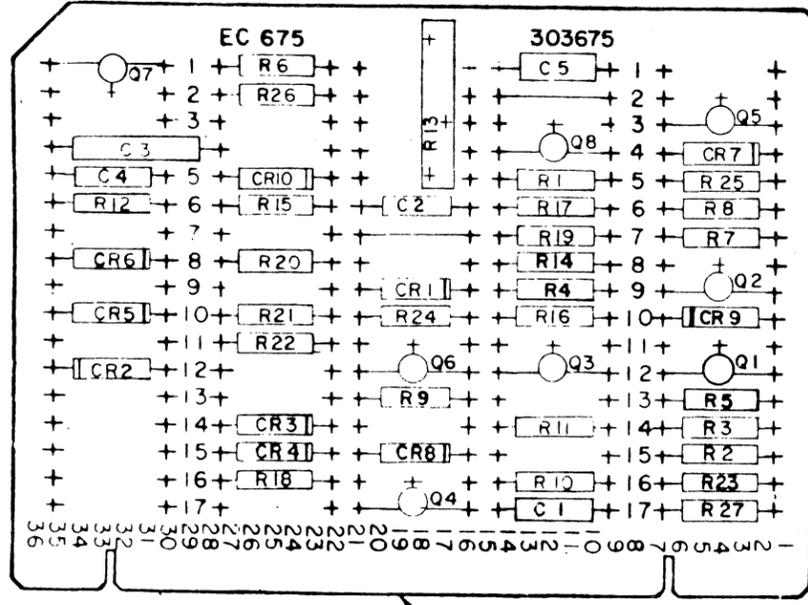
ISSUE	DATE	AUTH. NO.
2	4-1-64	80037
3	6-29-65	87243
4	4-4-68	95413-5

APPROVALS

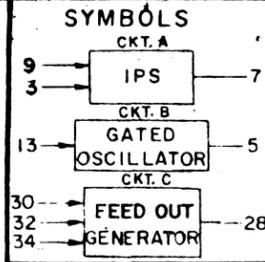
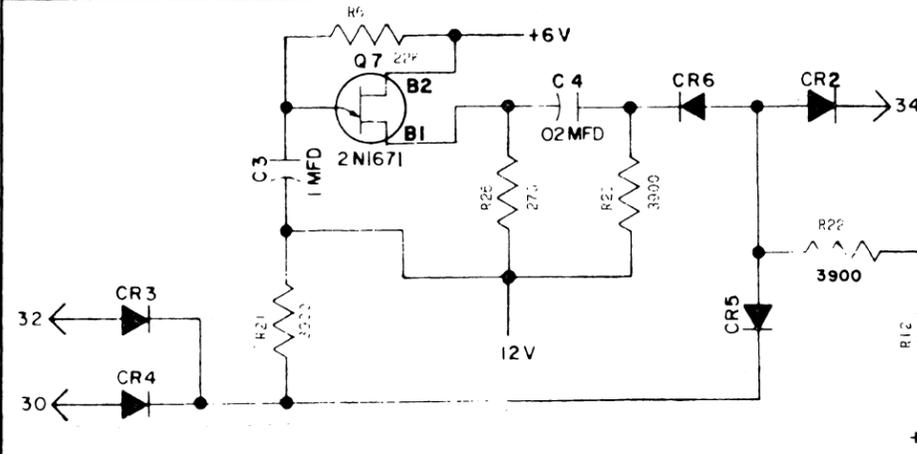
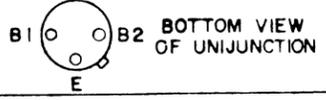
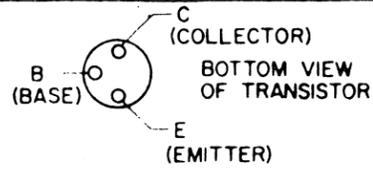
R AND D <i>HJK</i>	E OF M <i>✓</i>
E-NUMBER	
PROD. NO. 303605	
DATE 10-8-63	
RAD FILE I-A1N3AA	
DRAWN G.R.S.	CHKD.
ENGD. J.J.H.	APPD.

TELETYPE CORPORATION

303605

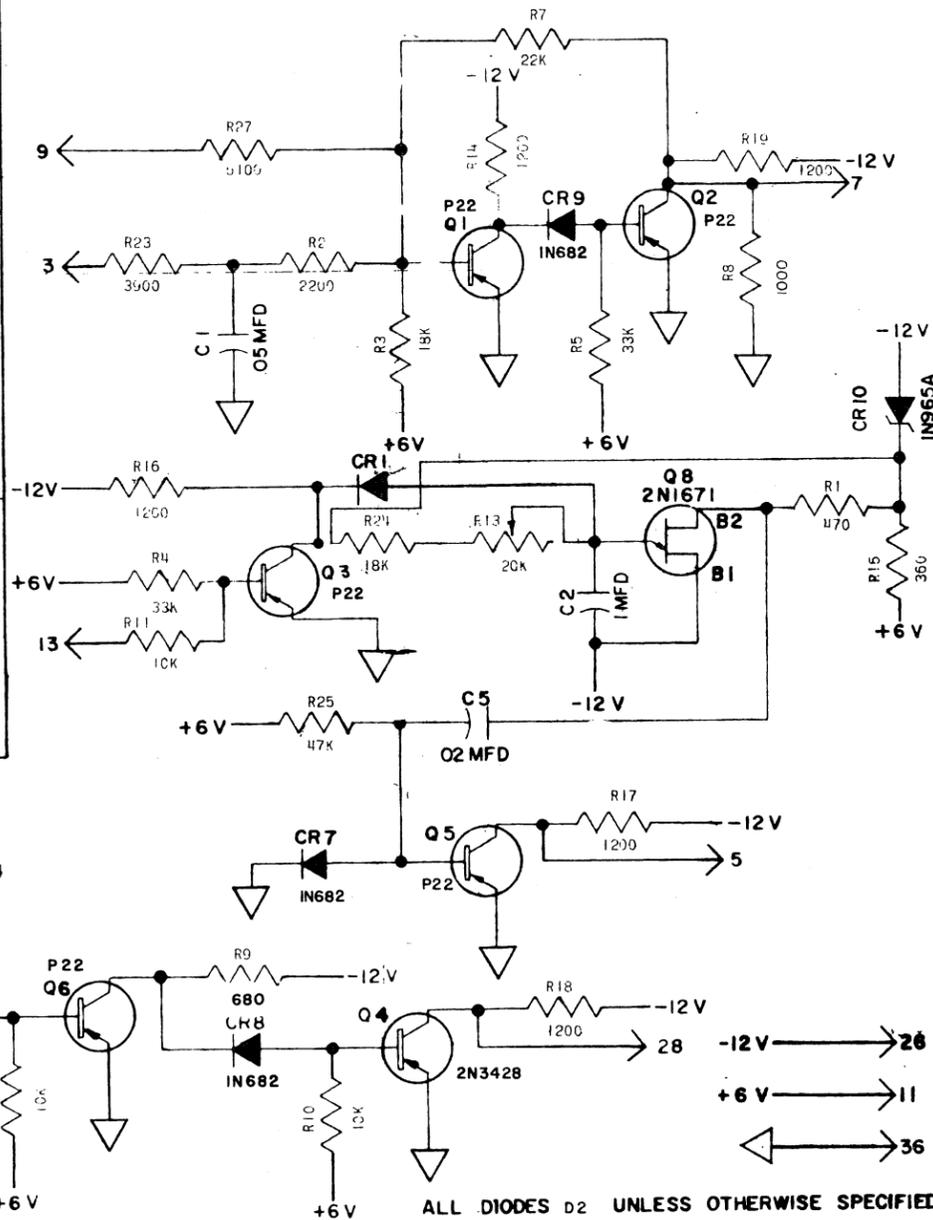


NOTE:  
REFER TO 6050WD FOR BASIC MARKING INFORMATION



LOGIC CARD

THIS CARD PERFORMS THREE INDEPENDENT LOGIC FUNCTIONS. THE FIRST IS AN INTEGRATOR PULSE SHAPER USING Q1 AND Q2. THE SECOND CIRCUIT USES Q3, Q8 AND Q5 TO FORM A GATED OSCILLATOR. TRANSISTORS Q4, Q6 AND Q7 FORM A FEEDOUT GENERATOR. FOR THE THEORY OF OPERATION, SEE SPECIFICATION 60.7855



ALL DIODES D2 UNLESS OTHERWISE SPECIFIED

CIRCUIT BOARD EC 675

REF DESIG	TELETYPE PART NO.	TOTAL QTY.	NAME AND DESCRIPTION	LOCATING FUNCTION
R1	137602	1	RESISTOR 470 OHMS	BASE 2 LOAD
R2	129852	1	RESISTOR 2200 OHMS	BASE INPUT
R3	118151	2	RESISTOR 18K OHMS	BASE BIAS
R4	118153	2	RESISTOR 33K OHMS	BASE BIAS
R5			RESISTOR 33K OHMS	BASE BIAS
R6	118177	2	RESISTOR 22K OHMS	TIMING
R7			RESISTOR 22K OHMS	FEEDBACK
R8	137440	1	RESISTOR 1000 OHMS	VOLTAGE DIVIDER
R9	129850	1	RESISTOR 680 OHMS	COLLECTOR LOAD
R10	118180	3	RESISTOR 10K OHMS	BASE BIAS
R11			RESISTOR 10K OHMS	BASE INPUT
R12			RESISTOR 10K OHMS	BASE BIAS
R13	118836	1	POTENTIOMETER 20K OHMS	TIMING ADJUST
R14	137141	5	RESISTOR 1200 OHMS	COLLECTOR LOAD
R15	1183669	1	RESISTOR 360 OHMS	VOLTAGE DROPPING
R16			RESISTOR 1200 OHMS	COLLECTOR LOAD
R17			RESISTOR 1200 OHMS	COLLECTOR LOAD
R18			RESISTOR 1200 OHMS	COLLECTOR LOAD
R19			RESISTOR 1200 OHMS	COLLECTOR LOAD
R20	1183667	4	RESISTOR 3900 OHMS	CAPACITOR DISCHARGE
R21			RESISTOR 3900 OHMS	BIAS
R22			RESISTOR 3900 OHMS	BASE INPUT
R23			RESISTOR 3900 OHMS	INTEGRATION
R24	118151		RESISTOR 18K OHMS	CURRENT LIMITER
R25	118154	1	RESISTOR 47K OHMS	BASE BIAS
R26	18725	1	RESISTOR 270 OHMS	BASE 1 LOAD
R27	143665	1	RESISTOR 5100 OHMS	INHIBIT INPUT
C1	137306	1	CAPACITOR .05 MFD	INTEGRATION
C2	148833	1	CAPACITOR 1 MFD	TIMING
C3	118831	1	CAPACITOR 1 MFD	TIMING
C4	137311	2	CAPACITOR .02 MFD	COUPLING
C5			CAPACITOR .02 MFD	COUPLING
CR1	177108	6	DIODE D2	CAPACITOR DISCHARGE
CR2			DIODE D2	AND GATE
CR3			DIODE D2	OR GATE
CR4			DIODE D2	OR GATE
CR5			DIODE D2	AND GATE
CR6			DIODE D2	AND GATE
CR7	177611	3	DIODE IN682	BIAS
CR8			DIODE IN682	COUPLING
CR9			DIODE IN682	COUPLING
CR10	177404	1	DIODE ZENER IN355 A	VOLTAGE REGULATION
Q1	177105	5	TRANSISTOR P22	AMPLIFIER
Q2			TRANSISTOR P22	AMPLIFIER
Q3			TRANSISTOR P22	OSCILLATOR CONTROL
Q4	323928		TRANSISTOR 2N3428	AMPLIFIER
Q5			TRANSISTOR P22	AMPLIFIER
Q6			TRANSISTOR P22	AMPLIFIER
Q7	177610	2	TRANSISTOR 2N1671	OSCILLATOR
Q8			TRANSISTOR 2N1671	OSCILLATOR
	144495	8	TRANSISTOR PAD	
FC	148801		ETCHED CIRCUIT BOARD	
		2	24 AWG BARE WIRE STRAP	

303675

REVISIONS

ISSUE	DATE	AUTH. NO.
2	4-1-64	80037
3	6-23-64	80734
4	10-22-64	80979
5	2-8-65	85287
6	8-31-66	91786-RC
7	5-12-67	94062
8	9-14-67	958968

APPROVALS

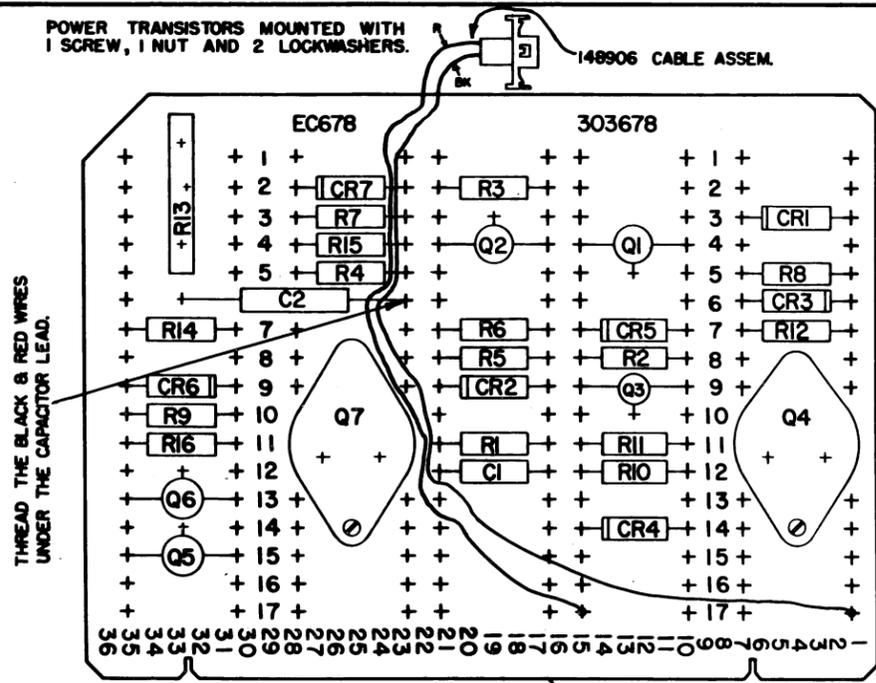
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E-NUMBER	
PROD. NO.	303675
DATE	8-13-63
R&D FILE	2-35-136AA
DRAWN	A.H.P. CHKD
ENGD.	E.W.S. APPD.

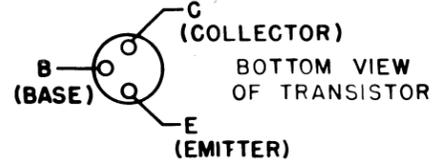
TELETYPE CORPORATION

303675

POWER TRANSISTORS MOUNTED WITH 1 SCREW, 1 NUT AND 2 LOCKWASHERS.

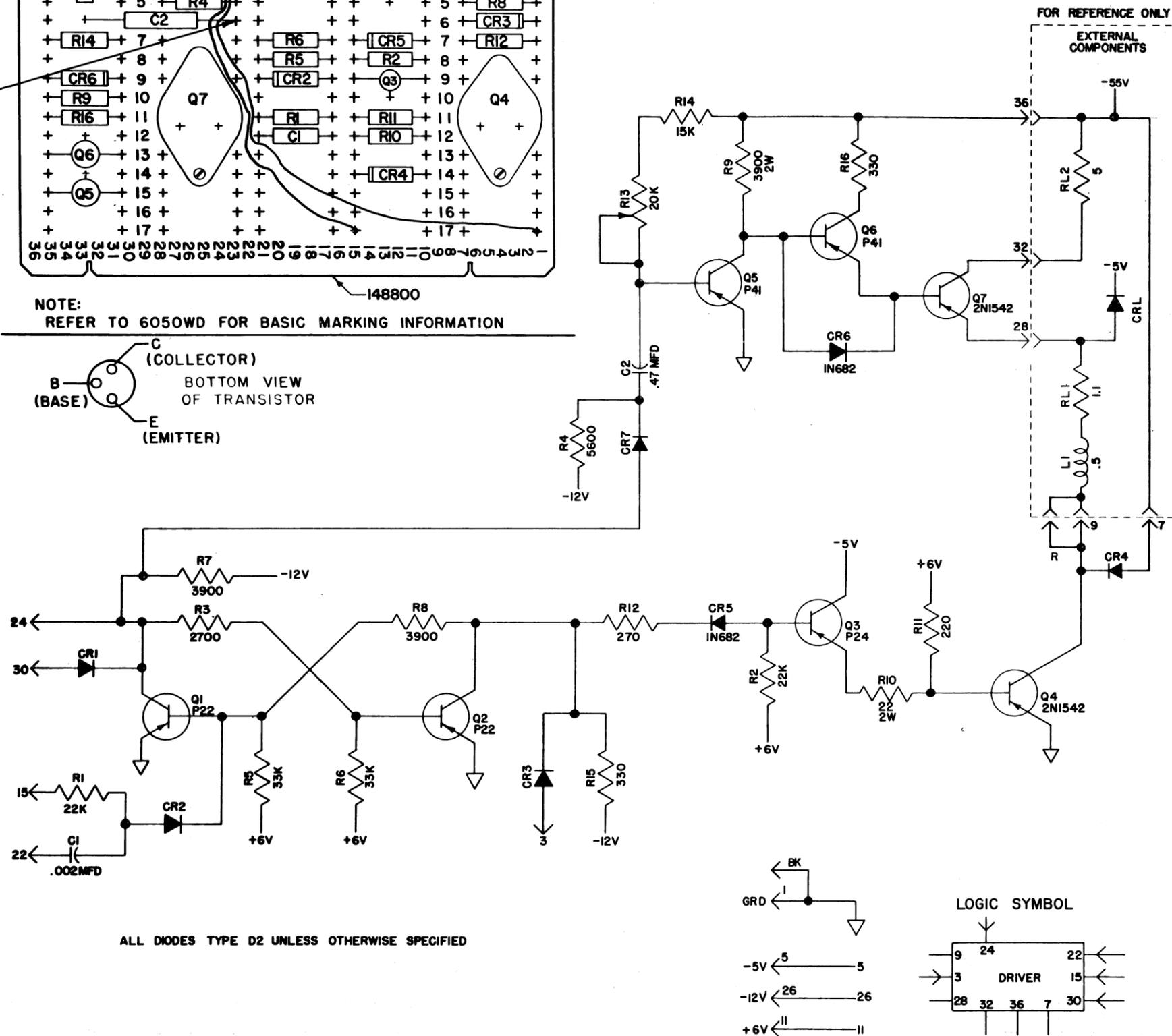


NOTE: REFER TO 6050WD FOR BASIC MARKING INFORMATION



### MAGNET DRIVER

THIS IS A MAGNET DRIVER CARD. IT PROVIDES A MAGNET HOLDING CURRENT THROUGH TRANSISTOR Q4. BY SETTING THE FLIP-FLOP (Q1 & Q2) TO THE "1" STATE, Q4 IS SHUT OFF RELEASING THE MAGNET. WHEN THE FLIP-FLOP IS RESET, Q4 IS TURNED ON AND A TIMED CURRENT PULSE IS PROVIDED BY Q7 TO PULL UP THE MAGNET.



ALL DIODES TYPE D2 UNLESS OTHERWISE SPECIFIED

### CIRCUIT BOARD EC678

REF. DESIG.	TELETYPE PART NO.	TOTAL QTY.	NAME AND DESCRIPTION	LOCATING FUNCTION
R1	118177	2	RESISTOR, 22K OHMS	PRIME
R2	118177		RESISTOR 22K OHMS	BASE BIAS
R3	118144	1	RESISTOR 2700 OHMS	CROSSOVER
R4	118186	1	RESISTOR 5600 OHMS	CAPACITOR DISCHARGE
R5	118153	2	RESISTOR 33K OHMS	BASE BIAS
R6	118153		RESISTOR 33K OHMS	BASE BIAS
R7	143667	2	RESISTOR 3900 OHMS	COLLECTOR LOAD
R8	143667		RESISTOR 3900 OHMS	CROSSOVER
R9	170314	1	RESISTOR 3900 OHMS, 2 W	COLLECTOR LOAD
R10	148835	1	RESISTOR 22 OHMS, 2W	COUPLING
R11	118724	1	RESISTOR 220 OHMS	BASE BIAS
R12	118725	1	RESISTOR 270 OHMS	COUPLING
R13	148836	1	POTENTIOMETER 20K OHMS	TIMING
R14	118150	1	RESISTOR 15K OHMS	CURRENT LIMITING
R15	143661	2	RESISTOR, 330 OHMS	COLLECTOR LOAD
R16	143661		RESISTOR 330 OHMS	COLLECTOR LOAD

C1	177332	1	CAPACITOR .002 MFD	DIFFERENTIATING
C2	148832	1	CAPACITOR .47 MFD	TIMING

CR1	177108	4	DIODE D2	INPUT
CR2	177108		DIODE D2	INPUT
CR3	177108		DIODE D2	INPUT
CR4	182520	1	DIODE MED. CURR.	CLAMP
CR5	177611	2	DIODE IN682	BASE BIAS
CR6	177611		DIODE IN682	BASE BIAS
CR7	177108		DIODE D2	COUPLING

Q1	177105	2	TRANSISTOR P22	FLIP-FLOP
Q2	177105		TRANSISTOR P22	FLIP-FLOP
Q3	193135	1	TRANSISTOR P24	EMITTER FOLLOWER
Q4	177618	2	TRANSISTOR 2N1542	AMPLIFIER
Q5	177224	2	TRANSISTOR P41	AMPLIFIER
Q6	177224		TRANSISTOR P41	EMITTER FOLLOWER
Q7	177618		TRANSISTOR 2N1542	EMITTER FOLLOWER

111017	2	SCREWS 6-40 FIL.		
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80728	2	NUTS 6-40 HEX		
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92260	4	WASHERS 10-32		
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144495	5	PAD, TRANSISTOR		
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EC	148800	1	ETCHED CIRCUIT CARD	
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148906	1	CABLE ASSEM.	NOT INCLUDED ON SOME CARDS	
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303678

### REVISIONS

ISSUE	DATE	AUTH. NO.
1	2-24-65	16823-R
2	11-1-66	88034
3	5-11-67	92196
4	6-27-67	94251-RC

### APPROVALS

R AND D E OF M

E-NUMBER

PROD NO. 303678

DATE 1-20-65

R&D FILE 1-A43AA

DRAWN GJM/RHB

CHKD.

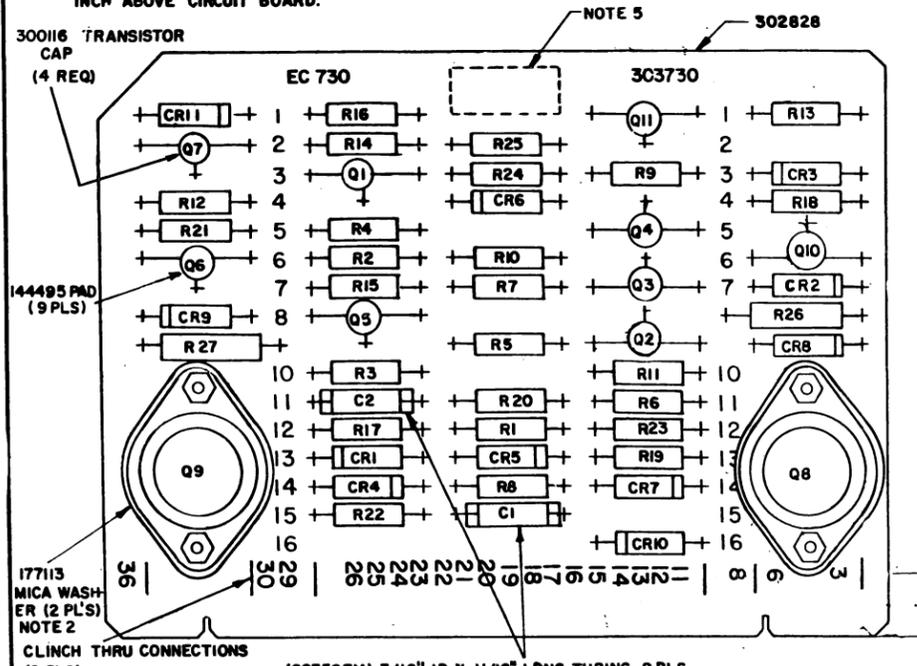
ENGD. WBM/RGH

APPD.

TELETYPE CORPORATION

303678

NOTE: RESISTORS R26 & R27 ARE MOUNTED 1/8 INCH ABOVE CIRCUIT BOARD.



CIRCUIT DESCRIPTION

THIS CARD CONTROLS THE MAGNET COIL OF A DRPE PUNCH. TRANSISTOR Q8 TURNS THE MAGNET COIL ON AND OFF. TRANSISTOR Q9 TURNS ON 55 VOLTS TO RAPIDLY ENERGIZE THE COIL.

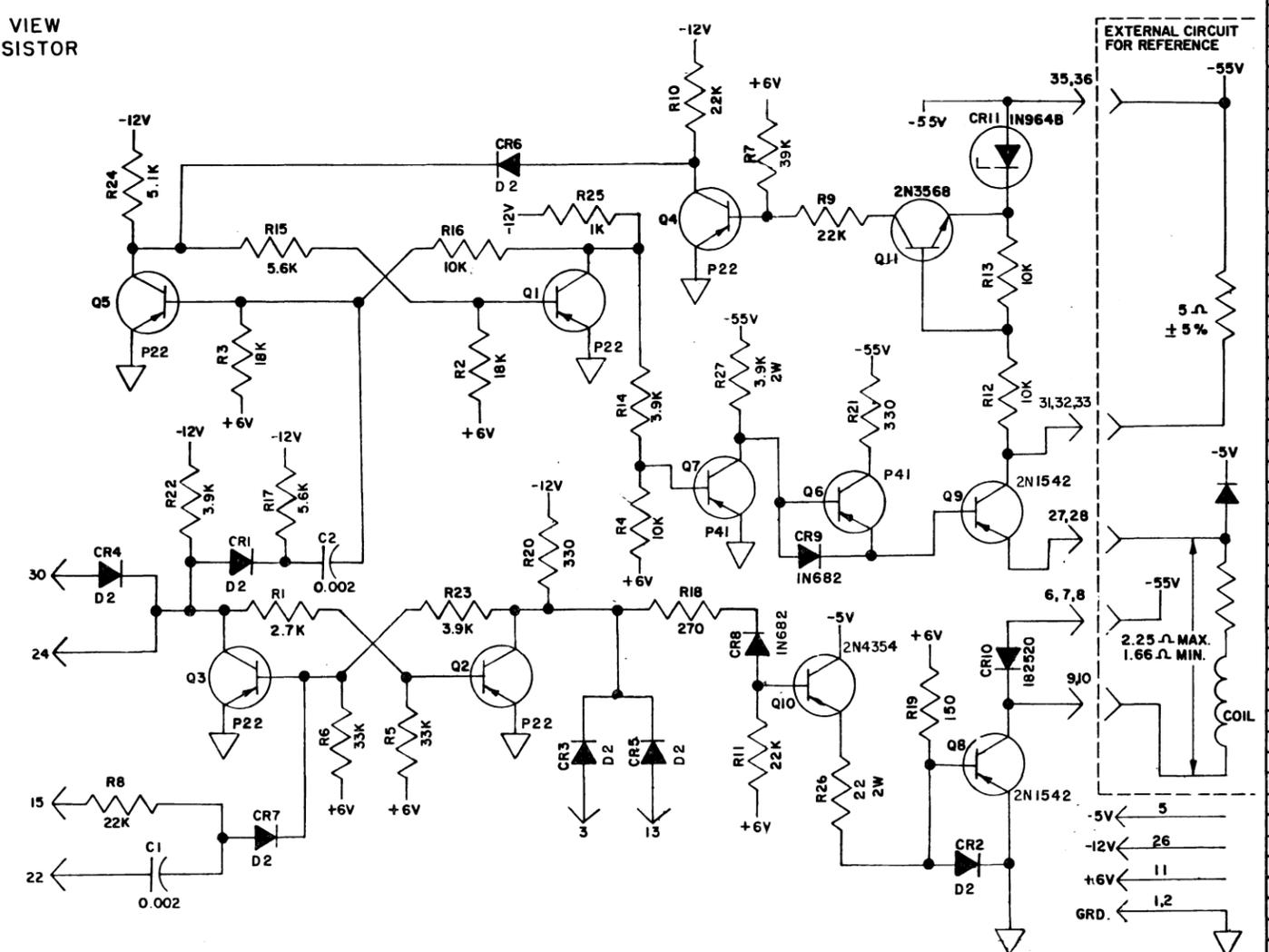
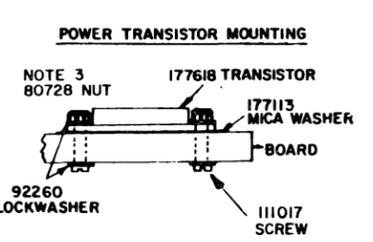
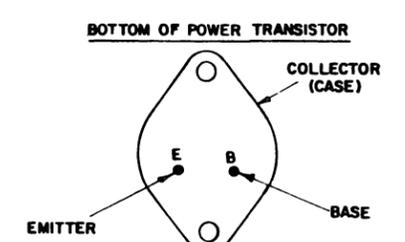
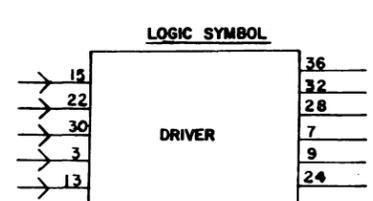
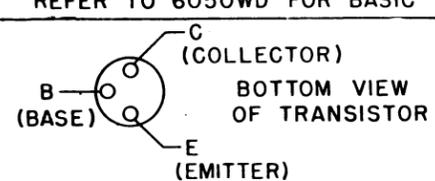
TO PUNCH A HOLE, 0 VOLTS IS APPLIED TO A PRIME INPUT 15 BEING FOLLOWED BY A 5 VOLT POSITIVE PULSE (PUNCH SAMPLE) ON INPUT 22. THIS PUTS A POSITIVE PULSE ON THE BASE OF Q3, SHUTTING IT OFF. THE COLLECTOR OF Q3 GOES NEGATIVE, TURNING Q2 ON, AND 0 VOLTS APPEARS ON THE COLLECTOR OF Q2. THIS HOLDS Q3 OFF AND TURNS OFF Q10, PUTTING 0 VOLTS ON THE EMITTER OF Q10, WHICH TURNS OFF Q8 AND THE MAGNET IS DE-ENERGIZED.

1.9 MS ± 0.05 MS AFTER THE TIME PIN 24 GOES NEGATIVE, A POSITIVE PULSE IS GENERATED IN THE DRPE CONTROL CARD AND IS APPLIED TO PIN 30 TO RESET THE FLIP-FLOP AND TURN Q8 BACK ON. THIS POSITIVE PULSE IS COUPLED THROUGH C2 TO TURN Q5 OFF, WHICH TURNS Q1 ON, APPLYING POSITIVE BIAS TO THE BASE OF Q7. Q7 TURNS OFF AND EMITTER FOLLOWER Q6 APPLIES NEGATIVE BIAS TO THE BASE OF Q9. Q9 TURNS ON APPLYING 55 VOLTS TO THE MAGNET COIL.

WHEN THE CURRENT IN THE MAGNET COIL HAS REACHED THE CORRECT LEVEL, THE VOLTAGE BETWEEN TERMINALS 35 (36) AND 31 (32,33) REACHES 13 VOLTS. THIS IS THE ZENER POINT FOR CR11 SO IT STARTS TO CONDUCT, ALLOWING A FORWARD BIAS ON Q11 TO BE DEVELOPED ACROSS R13. Q11 TURNS ON, PUTTING NEGATIVE BIAS ON THE BASE OF Q4, TURNING Q4 ON. THE COLLECTOR OF Q4 GOES TO 0 VOLTS WHICH IS APPLIED THROUGH CR6 TO THE COLLECTOR OF Q5, TURNING Q5 ON. THIS TURNS Q1 OFF, PUTTING NEGATIVE BIAS TO THE BASE OF Q7, TURNING IT ON. THIS PUTS 0 VOLTS ON THE BASE OF Q9, TURNING IT OFF TO REMOVE THE 55 VOLTS FROM THE MAGNET COIL.

INPUTS 3 AND 13 ALLOW THE PUNCHING CYCLE TO BE STARTED BY A POSITIVE PULSE TURNING Q2 ON AT THE COLLECTOR. NO PRIME IS NECESSARY WHEN THIS INPUT IS USED.

- NOTES:
1. THIS IS A DOUBLE SIDED BOARD; THE COMPONENT SIDE IS USED AS A HEAT SINK.
  2. MICA WASHER MUST BE CENTERED UNDER TRANSISTOR WITH THE ENTIRE EDGE VISIBLE.
  3. APPLY 80728 NUT WITH 11-13 IN.-LB. TORQUE.
  4. SILK SCREEN ALL CHARACTERS 1/8 HIGH WITH BLACK ENAMEL AFTER SOLDER PLATING.
  5. TRADEMARK TO BE REDUCED TO SPECIFIED SIZE FROM APPROVED ART WORK R & D PHOTO NO.661015-10.



CIRCUIT BOARD EC

REF. DESIG.	TELETYPE PART NO.	TOTAL QTY.	NAME AND DESCRIPTION	LOCATING FUNCTION
R1	118144	1	RESISTOR, 2.7K OHMS	CROSS OVER
R2	118151	1	RESISTOR, 18K OHMS	BASE BIAS
R3			SAME AS R2	BASE BIAS
R4	118180	4	RESISTOR, 10K OHMS	COUPLING
R5	118153	2	RESISTOR, 33K OHMS	BASE BIAS
R6			SAME AS R5	BASE BIAS
R7	118188	1	RESISTOR, 39K OHMS	BASE BIAS
R8	118177	4	RESISTOR, 22K OHMS	PRIME
R9			SAME AS R8	COLLECTOR LOAD
R10			SAME AS R8	COLLECTOR LOAD
R11			SAME AS R8	BASE BIAS
R12			SAME AS R4	COUPLING
R13			SAME AS R4	BASE BIAS
R14	143667	3	RESISTOR, 3.9K OHMS	COUPLING
R15	118186	2	RESISTOR, 5.6K OHMS	CROSS OVER
R16			SAME AS R4	CROSS OVER
R17			SAME AS R15	BIAS
R18	118725	1	RESISTOR, 270 OHMS	COUPLING
R19	143658	1	RESISTOR, 150 OHMS	BASE BIAS
R20	143661	2	RESISTOR, 330 OHMS	COLLECTOR LOAD
R21			SAME AS R20	COLLECTOR LOAD
R22			SAME AS R14	COLLECTOR LOAD
R23			SAME AS R14	CROSS OVER
R24	143665	1	RESISTOR, 5.1K OHMS	COLLECTOR LOAD
R25	137440	1	RESISTOR, 1K OHM	COLLECTOR LOAD
R26	148835	1	RESISTOR, 22 OHMS, 2W	COUPLING
R27	170314	1	RESISTOR, 3.9K OHMS, 2W	COLLECTOR LOAD
C1	177332	2	CAPACITOR, 0.002 MFD	DIFFERENTIATING
C2			SAME AS C1	COUPLING
CR1	177108	7	DIODE, D2	COUPLING
CR2			SAME AS CR1	BASE BIAS
CR3			SAME AS CR1	INPUT
CR4			SAME AS CR1	COUPLING
CR5			SAME AS CR1	INPUT
CR6			SAME AS CR1	COUPLING
CR7			SAME AS CR1	INPUT
CR8	177611	2	DIODE, IN682	COUPLING
CR9			SAME AS CR8	BASE BIAS
CR10	182520	1	DIODE	CLAMP
CR11	302844	1	DIODE, ZENER, IN964B	REFERENCE
Q1	177105	5	TRANSISTOR, P22	FLIP-FLOP
Q2			SAME AS Q1	FLIP-FLOP
Q3			SAME AS Q1	FLIP-FLOP
Q4			SAME AS Q1	INVERTER
Q5			SAME AS Q1	FLIP-FLOP
Q6	177224	2	TRANSISTOR, P41	EMITTER FOLLOWER
Q7			SAME AS Q6	AMPLIFIER
Q8	177618	2	TRANSISTOR, 2N1542	AMPLIFIER
Q9			SAME AS Q8	EMITTER FOLLOWER
Q10	302865	1	TRANSISTOR, 2N4354	EMITTER FOLLOWER
Q11	315930	1	TRANSISTOR, 2N3568	VOLTAGE SENSOR
144495	9		TRANSISTOR PADS	
EC	302828	1	CIRCUIT CARD, ETCHED	
111017	4		SCREW, 6-40	
92260	8		WASHER, LOCK	
80728	4		NUT, 6-40 HEX.	
177113	2		MICA WASHER	
	6		CLINCH THRU CONNECTIONS	
60358RM	2		11/16" LONG TUBING	
300116	4		TRANSISTOR CAPS	

303730

REVISIONS

ISSUE	DATE	AUTH. NO.
1	6-2-67	16655-R
2	8-15-67	94191-B
3	9-1-67	94492-A
4	11-9-67	95413-D
5	12-4-67	94912-D

P

SHEET 1 OF 2

APPROVALS

R AND D E OF M

E-NUMBER  
PROD NO. 303730

DATE 6-1-67

R&D FILE 5-A148/134AA

DRAWN R.J.P. CHKD.  
ENG. R.K.S. APPD.

TELETYPE CORPORATION

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