

35 AUTOMATIC SEND-RECEIVE (ASR) SETS  
ACTUAL AND SCHEMATIC WIRING DIAGRAMS

1. GENERAL

1.01 This section is reissued to include wiring diagrams for ASR sets used in DATREX\* Service, for the TP186627 set logic assembly, and related options. Also, the title has been changed to reflect the inclusion of the actual wiring diagrams. Since it is a general revision, marginal arrows ordinarily used to indicate changes and additions are omitted.

1.02 The sheet index, detached schematics, apparatus figures, and circuit notes are covered in wiring diagram 6000WD and consists of 21 pages.

1.03 The sheet index provides a complete contents listing for the detached schematics, apparatus figures, and circuit notes.

1.04 Detached schematics (B1 through B12) show the complete functioning paths of all relays and other apparatus.

1.05 The individual parts of a given relay, jack, key, or other component may perform various functions. Apparatus figures (C1 through C7) show these parts independent of the detached schematics (B1 through B12) and indicate the various functions performed. In addition, the apparatus figures serve as a convenient index for locating specific parts or areas in the associated detached schematics.

1.06 For circuit notes, refer to sheet D1.

2. WIRING DIAGRAM INDEX

TITLE	DRAWING NUMBER
ACTUALS	
Call Control Unit UCC29	8162WD
SCHEMATICS	
Set Logic Assembly (TP186627)	WDP0238
Automatic Send-Receive Sets (35J and 35L)	6000WD
Sheet index	A1
Detached schematics	B1
	B2
	B3
	B4
	B5
	B6
	B7
	B8
	B9
	B10
	B11
	B12

\*Service Mark of AT&TCo

## WIRING DIAGRAM INDEX (Continued)

TITLE	DRAWING NUMBER
Apparatus figures	C1 C2 C3 C4 C5 C6 C7
Circuit notes	D1
Call Control Unit UCC29	8163WD
Automatic Send-Receive Sets (VSL347, VSL348, VSL349, and VSL350)	8226WD
CIRCUIT CARDS	
Selector Magnet Driver Card	182630-35
Answer-Back Trip Magnet Card	303834



SEE ISSUE CONTROL SHEET FOR NOTES

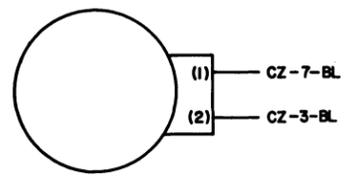
NOTE:  
REVISION INFORMATION MUST ALSO BE REFLECTED ON THE ISSUE CONTROL RECORD, WHICH IS A PART OF THIS DRAWING.

8162WD

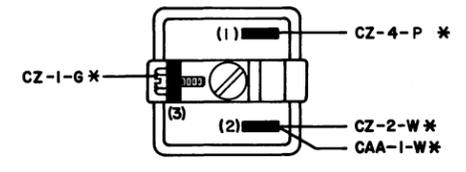
REVISIONS

ISSUE	DATE	AUTH. NO.
1	9-25-69	19474-R
2	3-31-70	99954

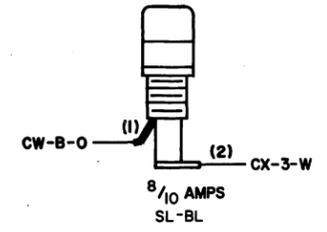
**CP**  
ELAPSED TIME INDICATOR  
186318



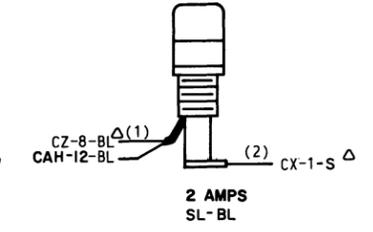
**CQ**  
CONVENIENCE OUTLET  
301713



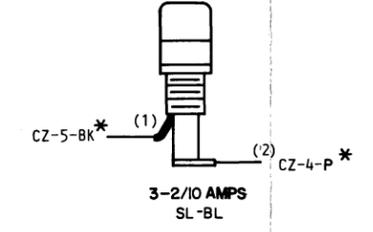
**CR**  
FUSE HOLDER  
182182



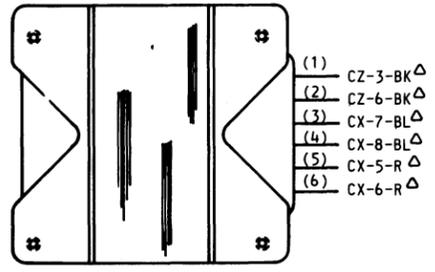
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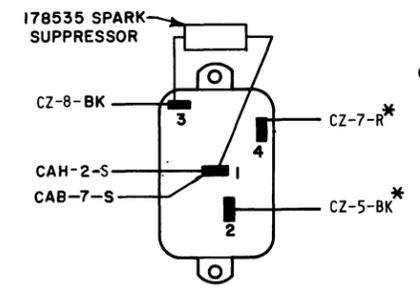
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FUSE HOLDER  
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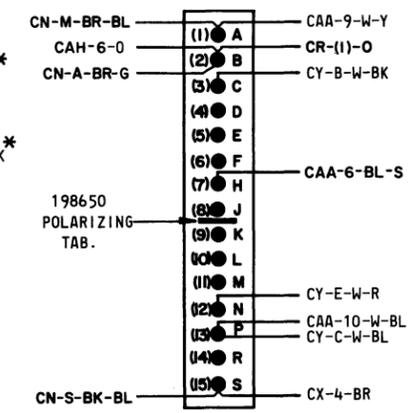
**CU**  
TRANSFORMER ASSEMBLY  
186434



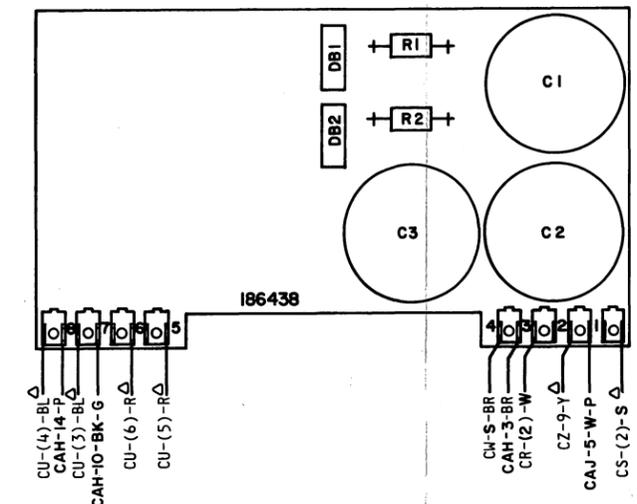
**CV**  
MOTOR CONTROL RELAY  
178306



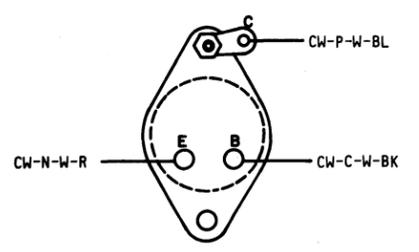
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SMD CARD CONNECTOR  
181819



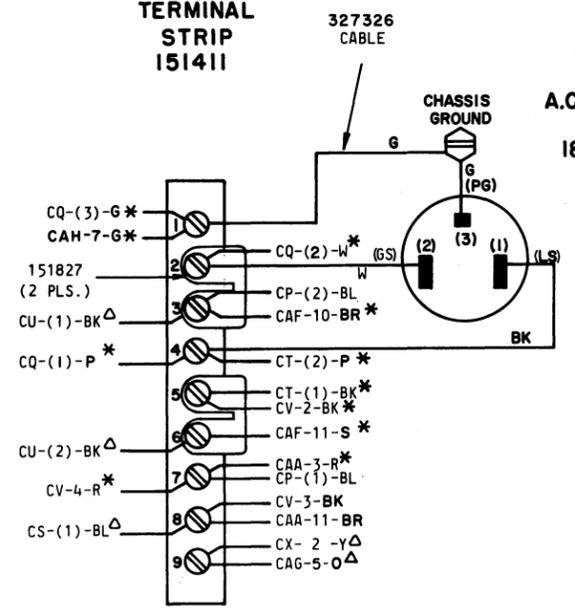
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CIRCUIT CARD ASSEMBLY  
186438



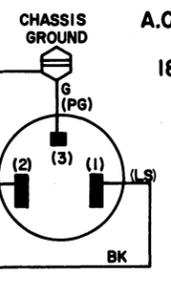
**CY**  
POWER TRANSISTOR  
181675



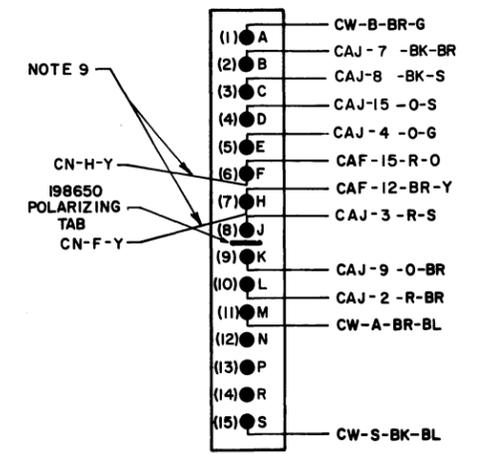
**CZ**  
TERMINAL STRIP  
151411



**CM**  
A.C. POWER CORD  
182510



**CN**  
BREAK DETECTOR CARD CONNECTOR  
181819



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

SHEET 1

ACTUAL WIRING DIAGRAM FOR CALL CONTROL UNIT UCC-29 MODEL 33 8 LEVEL AUTOMATIC SEND-RECEIVE (ASR) SEND-RECEIVE (KSR) RECEIVE ONLY (RO)

APPROVALS

D AND R: *LDM* E OF M: *[Signature]*

E-NUMBER

PROD. NO. 8162 WD

DATE

R.D. FILE NO. 2-168.152 AA

DRAWN MWH. CHKD. *RK*

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

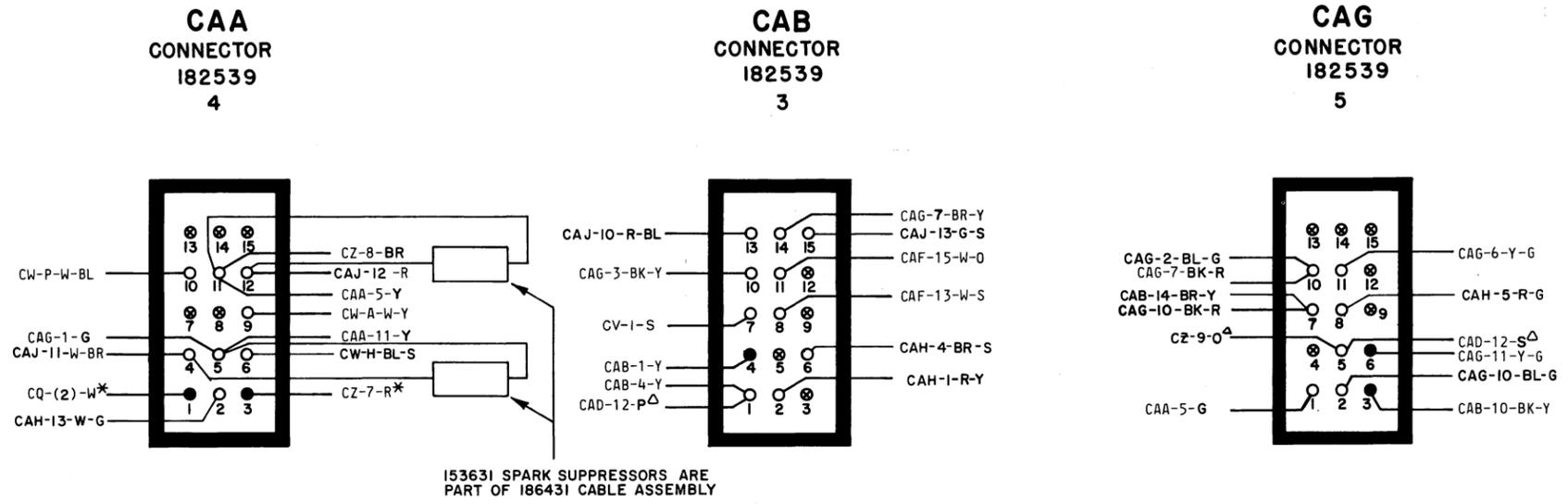
TELETYPE CORPORATION

8162WD

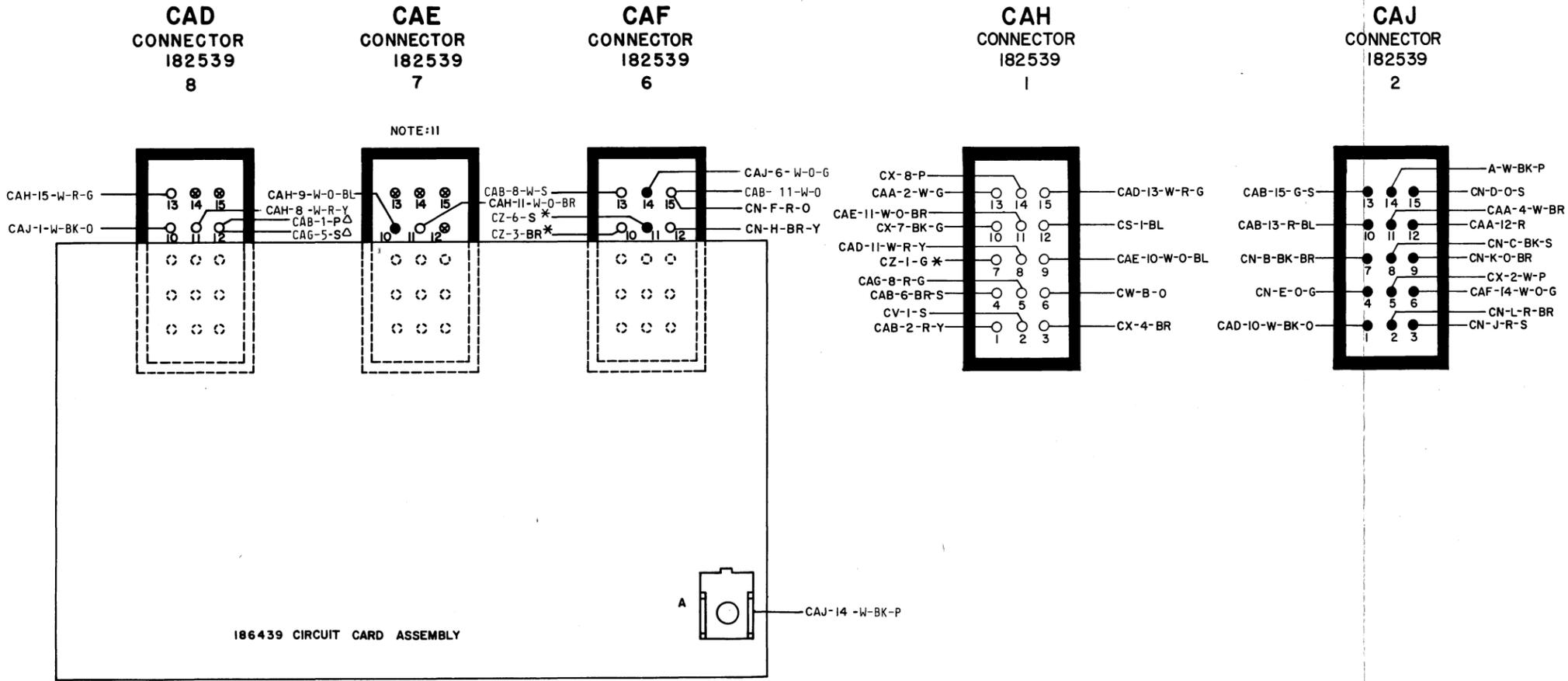
SEE ISSUE CONTROL SHEET FOR NOTES

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

8162WD		
REVISIONS		
ISSUE	DATE	AUTH. NO.
1	9-25-69	19474-R
2	3-31-70	99954



153631 SPARK SUPPRESSORS ARE  
PART OF 186431 CABLE ASSEMBLY



NOTE:II

186439 CIRCUIT CARD ASSEMBLY

SEE ISSUE CONTROL RECORD FOR COM-  
PLETE LIST OF SHEETS COMPRISING THIS  
W.D.

SHEET 2

ACTUAL  
WIRING DIAGRAM  
FOR  
CALL CONTROL UNIT  
UCC-29  
MODEL 33  
8 LEVEL  
AUTOMATIC SEND-RECEIVE(ASR)  
SEND-RECEIVE(KSR)  
RECEIVE ONLY (RO)

APPROVALS	
D AND R <i>LKM</i>	E OF M <i>[Signature]</i>
E-NUMBER	
PROD. NO. 8162 WD	
DATE 3-21-68	
P.D. FILE NO. 2-165.152AA	
DRAWN MWH.	CHKD. <i>KCS</i>
ENGD. R.C.H.	APPD. <i>[Signature]</i>

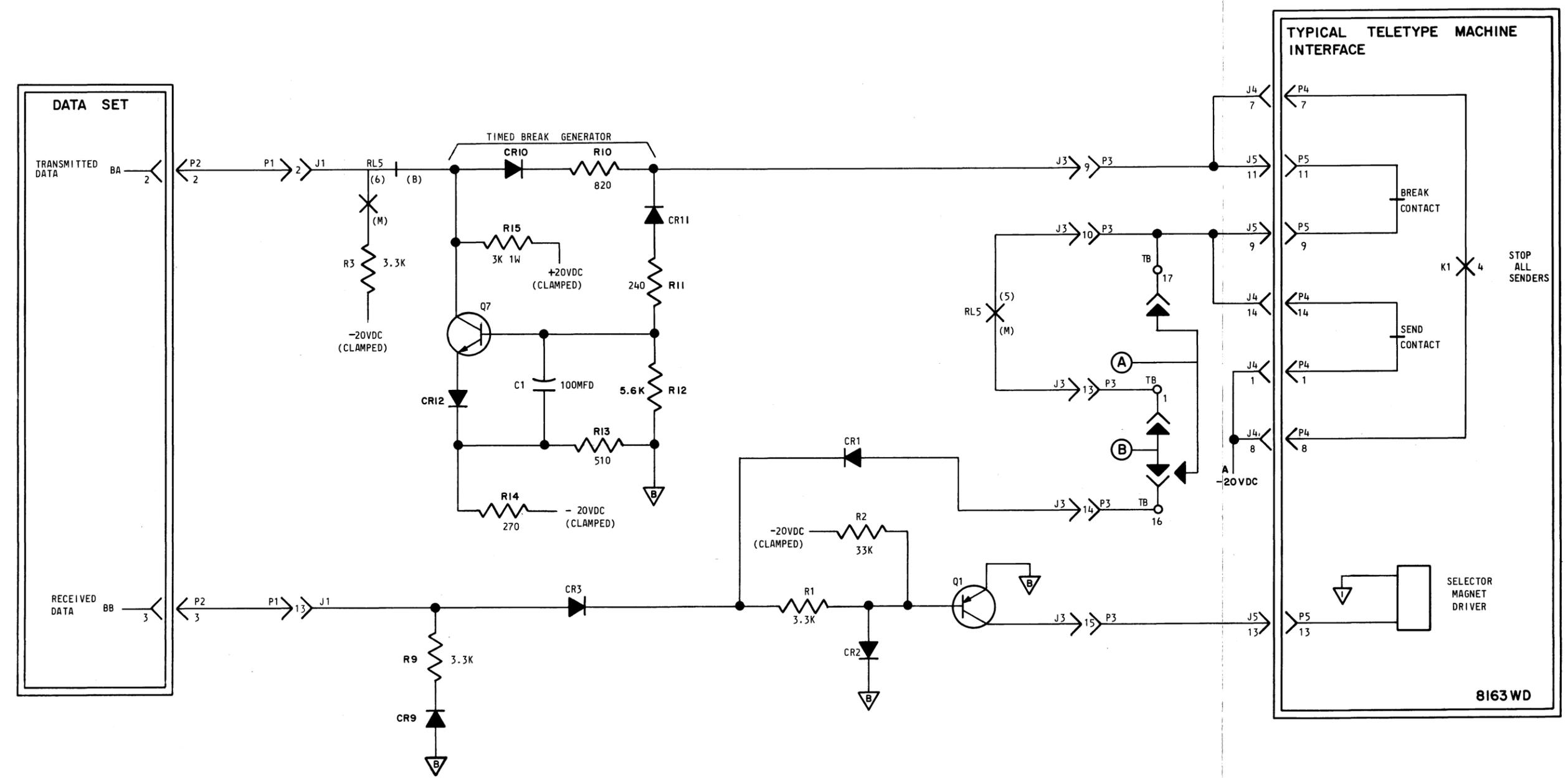
TELETYPE  
CORPORATION

8162WD





# FS-1 SIGNAL LINE CIRCUITRY



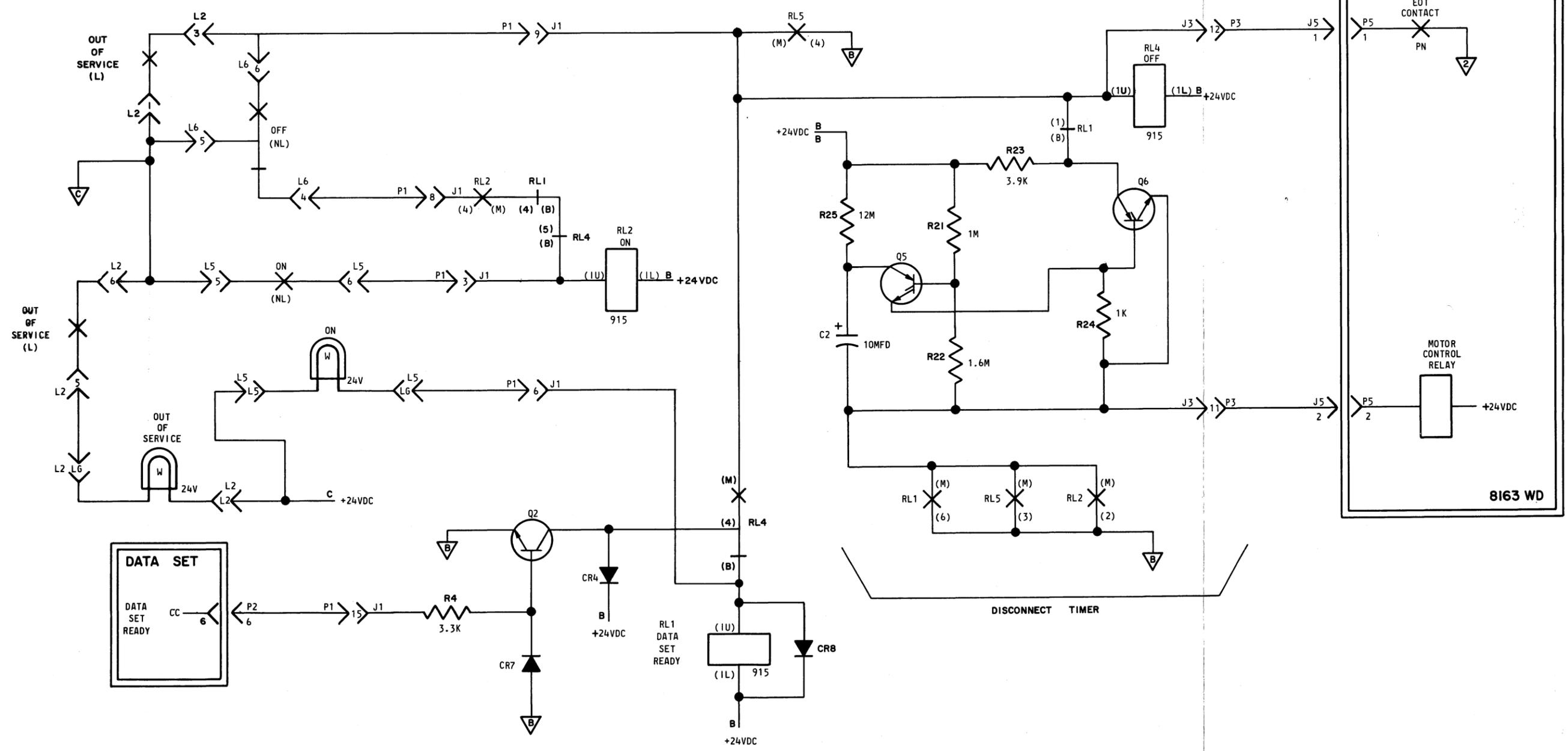
SHEET NOTES:  
I. CONNECTOR CROSS-REFERENCE

1051SD	8163WD
P4	CAJ
P5	CAH

186627  
SET LOGIC  
ASSEMBLY



# FS-2 CONTROL CIRCUITRY ON-DATA SET READY-OFF

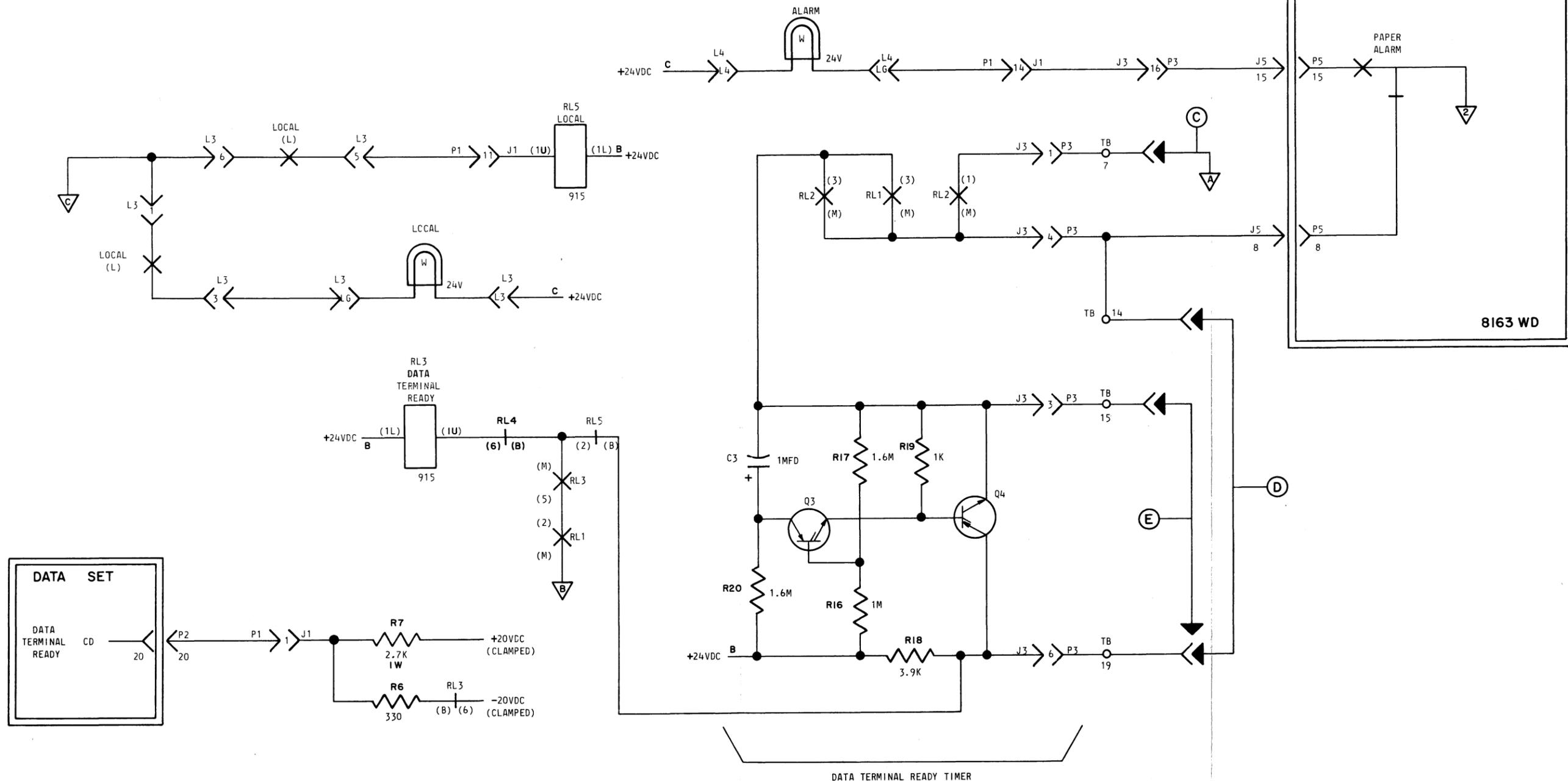


**SHEET NOTES:**  
I. CONNECTOR CROSS-REFERENCE

1051SD	8163WD
P4	CAJ
P5	CAH

<p>186627 SET LOGIC ASSEMBLY</p>	 <p>1051 SD - B2</p>
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# FS-3 CONTROL CIRCUITRY DATA TERMINAL READY-LOCAL



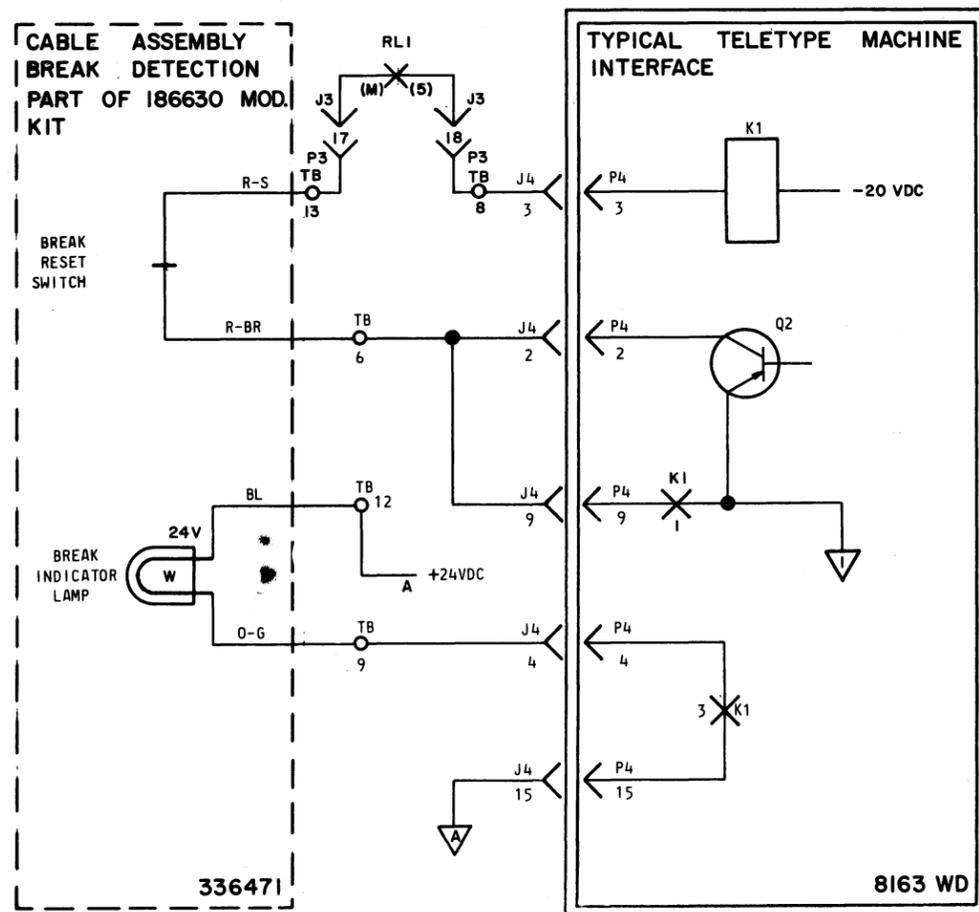
SHEET NOTES:

I. CONNECTOR CROSS-REFERENCE

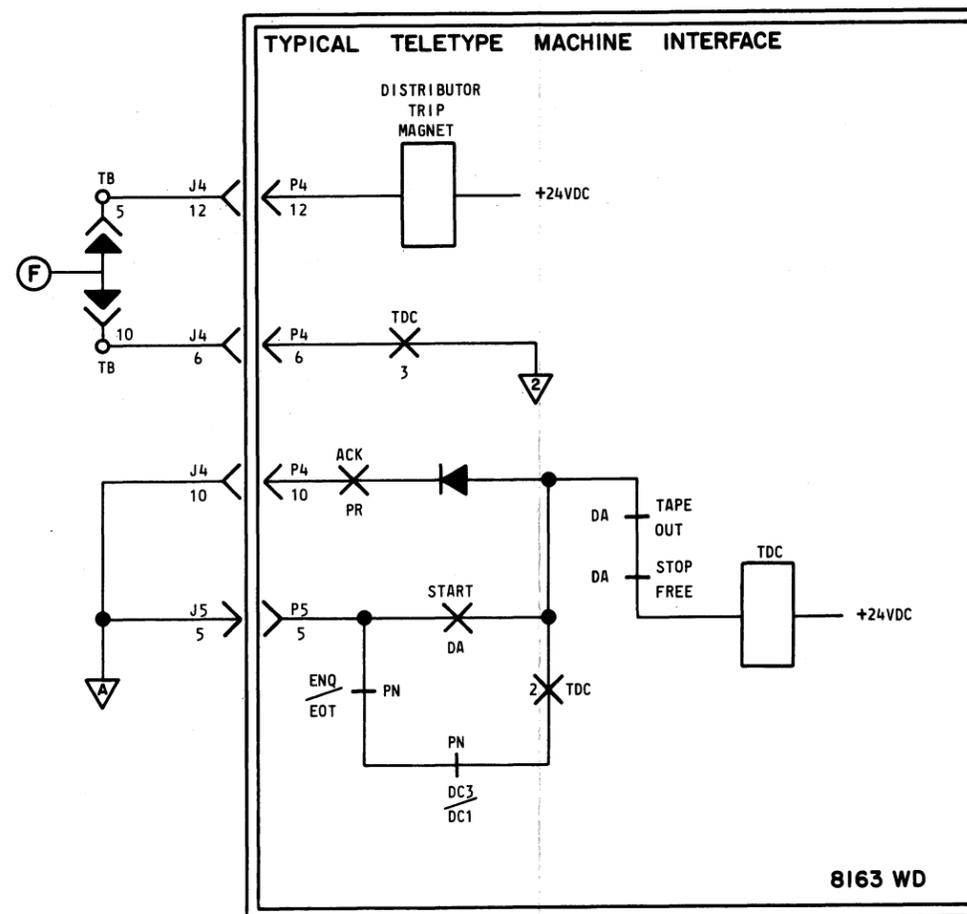
1051SD	8163WD
P4	CAJ
P5	CAH

186627 SET LOGIC ASSEMBLY	 TELETYPE 1051 SD-B3
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# FS-4 BREAK DETECTOR CIRCUITRY



# FS-5 DISTRIBUTOR CIRCUITRY



SHEET NOTES:  
I. CONNECTOR CROSS-REFERENCE

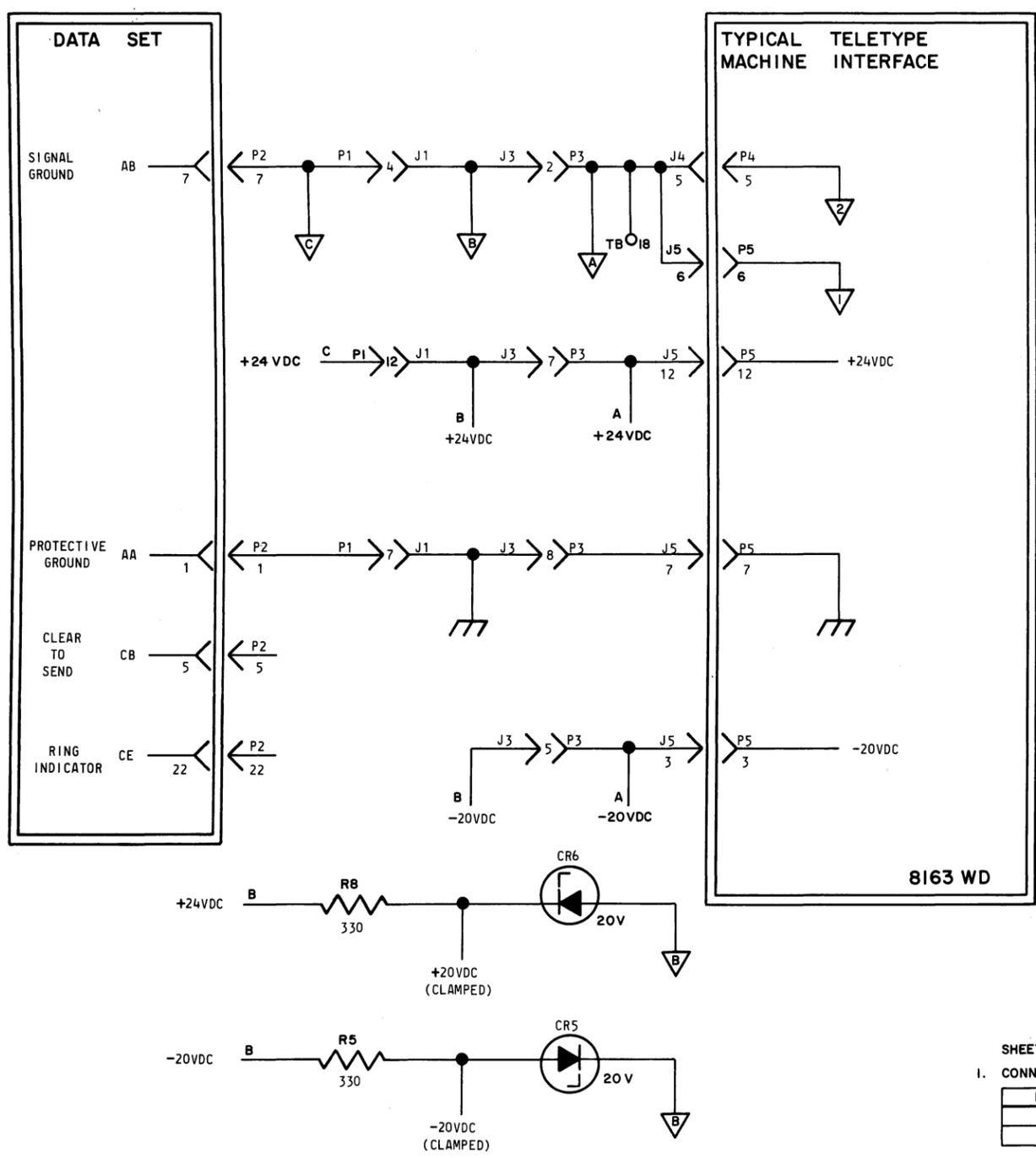
1051SD	8163WD
P4	CAJ
P5	CAH

186627  
SET LOGIC  
ASSEMBLY

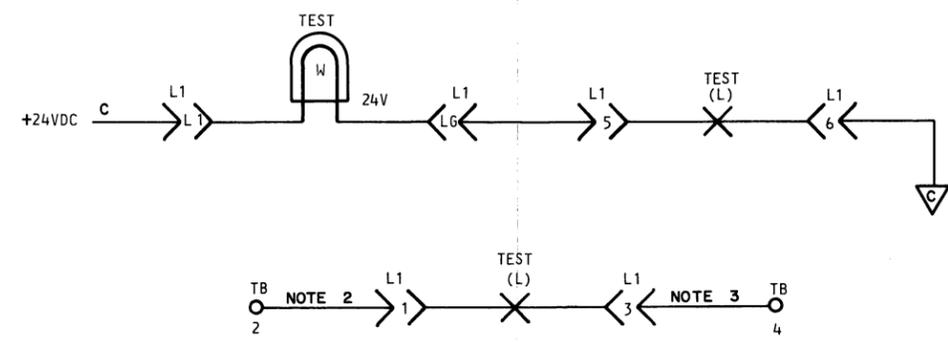


1051 SD - B4

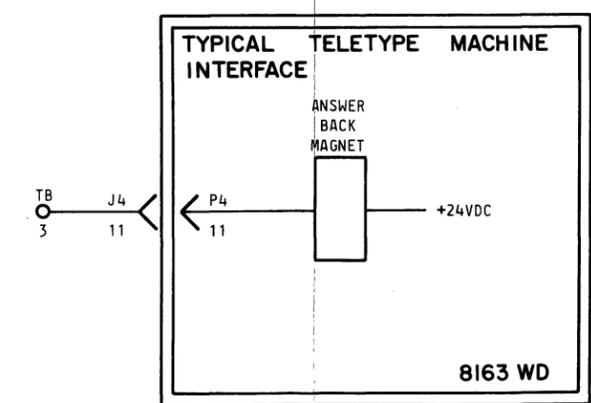
# FS-6 POWER SUPPLY DISTRIBUTION



# FS-7 TEST CIRCUITRY



# FS-8 ANSWER BACK CIRCUITRY



- SHEET NOTES:
- CONNECTOR CROSS-REFERENCE
- | 1051 SD | 8163 WD |
|---------|---------|
| P4      | CAJ     |
| P5      | CAH     |
- CONNECT THE PURPLE WIRE OF THE 336601 CABLE ASSEMBLY TO TB 2.
  - CONNECT THE SLATE WIRE OF THE 336601 CABLE ASSEMBLY TO TB 4.

APP. FIG. 1

RELAY

DESIG	RL1	RL2	RL3	RL4	RL5	DESIG					
CODE	336953	336953	336953	336953	336953	CODE					
OPTION						OPTION					
	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	CONT ARR	LOC	
6	EBM	2D5	EBM		EBM	3D3	EBM	3C3	EBM	1B3	6
5	EBM	4B2	EBM		EBM	3C3	EBM	2B3	EBM	1C5	5
4	EBM	2B3	EBM	2B3	EBM		EBM	2D4	EBM	2A4	4
3	EBM	3B5	EBM	3B4	EBM		EBM		EBM	2D5	3
2	EBM	3D3	EBM	2D5	EBM		EBM		EBM	3C3	2
1	EBM	2B5	EBM	3B5	EBM		EBM	4B2	EBM		1
COIL		2D4		2C3		3C3		2B6		3B3	COIL

APP. FIG. 2

CAPACITOR

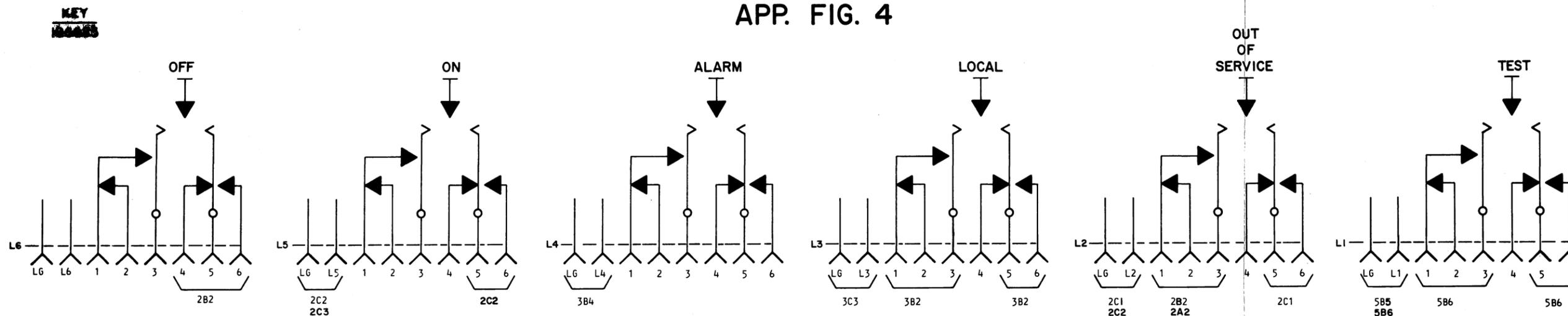
DESIG	LOC	CODE
C1	1C3	336946
C2	2C4	336947
C3	3C4	336948

APP. FIG. 3

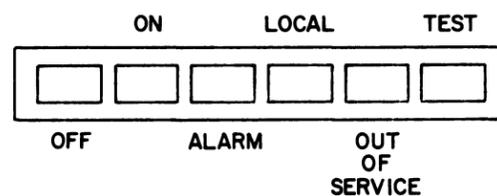
CORD - OPTION

OPTION	LOC	CODE
B	1C5	156880
C	3B6	156880
F	4B5	156880

APP. FIG. 4



KEYTOP  
186683



LAMPS

DESIG	LOC	CODE	DESIG.	LOC	CODE
OFF	—	—	LOCAL	3C3	327061
ON	2C2	327061	OUT OF SERVICE	2C2	327061
ALARM	3B4	327061	TEST	5B5	327061

186627  
SET LOGIC  
ASSEMBLY



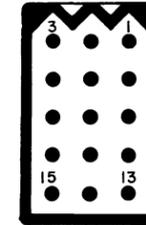
1051 SD-CI

# APP. FIG. 5

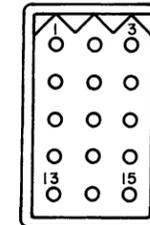
## CONNECTOR

DESIG.	J1	P1	P2	J3	P3	J4	J5
CODE	RECPT.	PLUG	PLUG	PLUG	RECPT.	RECPT.	PLUG
	328733	182540	145914	325161 325163	315946	328733	328727
TERM.	LOCATION						
1	3D2	3D2	5C2	3B5	3B5	1C6	2B6
2	1B2	1B2	1B2	5B3	5B3	4C3	2C6
3	2C3	2C3	1D2	3C5	3C5	4B3	5D3
4	5B2	5B2		3B5	3B5	4C3	
5			5C2	5D3	5D3	5B3	4C5
6	2C3	2C3	2D2	3D5	3D5	4B5	5B3
7	5C2	5C2	5B2	5B3	5B3	1B6	5C3
8	2B3	2B3		5C3	5C3	1C6	3B6
9	2B3	2B3		1B5	1B5	4C3	1B6
10				1B5	1B5	4C5	
11	3B3	3B3		2C6	2C6	5D5	1B6
12	5B2	5B2		2B6	2B6	4B5	5B3
13	1D2	1D2		1C5	1C5		1D6
14	3B5	3B5		1C5	1C5	1C6	
15	2D2	2D2		1D5	1D5	4D3	3B6
16				3B6	3B6		
17				4B2	4B2		
18				4B2	4B2		
19							
20			3D2				
21							
22			5D2				
23							
24							
25							

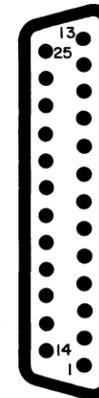
328727  
PLUG



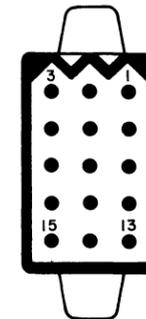
328733  
RECEPTACLE



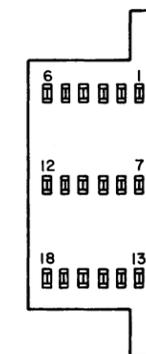
145914  
PLUG



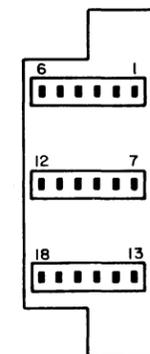
182540  
PLUG



315946  
RECEPTACLE



325161 & 325163  
PLUG



### APP. FIG. 6

#### DIODE

DESIG.	LOC	CODE
CR1	1C4	181653
CR2	1D4	177108
CR3	1D3	181653
CR4	2D3	177108
CR5	5E3	323606
CR6	5D3	323606
CR7	2D3	177108
CR8	2D4	181653
CR9	1D3	181653
CR10	1B3	181653
CR11	1B4	181653
CR12	1C3	181653

### APP. FIG. 7

#### RESISTOR

DESIG.	LOC	CODE
R1	1D4	129851
R2	1D4	118153
R3	1B3	129851
R4	2D3	129851
R5	5E2	143661
R6	3D3	143661
R7	3D3	117729
R8	5D2	143661
R9	1D3	129851
R10	1B3	137439
R11	1B4	320440
R12	1C4	137444
R13	1C3	137603
R14	1C3	118725
R15	1B3	165867
R16	3D4	118169
R17	3C4	336950
R18	3D5	143667
R19	3C5	137440
R20	3D4	336950
R21	2B5	118169
R22	2C5	336950
R23	2B5	143667
R24	2C5	137440
R25	2B4	336951

### APP. FIG. 8

#### TERMINAL

DESIG.	LOC	CODE
TB1	1C6	336952
TB2	5B5	336952
TB3	5D5	336952
TB4	5B6	336952
TB5	4B5	336952
TB6	4B2	336952
TB7	3B5	336952
TB8	4B2	336952
TB9	4C2	336952
TB10	4B5	336952
TB11		336952
TB12	4C2	336952
TB13	4B2	336952
TB14	3C5	336952
TB15	3C5	336952
TB16	1C6	336952
TB17	1B6	336952
TB18	5B3	336952
TB19	3D5	336952

### APP. FIG. 9

#### TRANSISTOR - SCR - PUT

DESIG	LOC	CODE
Q1	1D5	319304
Q2	2D3	315930
Q3	3D4	333248
Q4	3D5	336949
Q5	2C5	327946
Q6	2B6	336949
Q7	1C3	300455

CIRCUIT NOTES:

101.

DESIG.	FUSE AMP	POTENTIAL	ONE PER
BATTERY SYMBOL		VOLTAGE RANGE	
+24 VDC		20-32	
-20 VDC		18-30	
+20 VDC (CLAMPED)		18-20	
-20 VDC (CLAMPED)		12-20	

102.

FEATURE OR OPTION	LOC	PROVIDE
A	1C5	HALF DUPLEX OPERATION. STRAP TB-16 TO TB-17
B	1C5	FULL DUPLEX OPERATION. STRAP TB-1 TO TB-16
C	3B6	ORIGINATION OF A CALL IN A LOW PAPER OR PAPER OUT CONDITION. STRAP TB-7 TO TB-18
D	3C6	DATA TERMINAL READY (CD) ON FOR DATAPHONE OPERATION. STRAP TB-14 TO TB-19
E	3D6	DISABLES THE DATA TERMINAL READY TIMING CIRCUIT. STRAP TB-15 TO TB-19
F	4B5	DISTRIBUTOR CONTROL. STRAP TB-5 TO TB-10

103.

NETWORK VALUES		
NET NO.	RESISTANCE (OHMS)	CAPACITANCE (MFD)

EQUIPMENT NOTES:

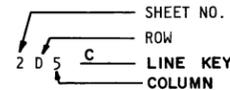
201. TERMINAL BOARD "TB" IS STRAPPED BY THE FACTORY AS SHOWN IN NOTE 202.

202.

OPTION	STRAPPING TERMINALS	
	FROM	TO
B	TB-1	TB-16
C	TB-7	TB-18
F	TB-5	TB-10

INFORMATION NOTES:

301. SHEET COORDINATE LOCATION LEGEND:



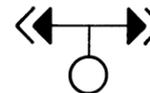
302. TERMINAL DESIGNATIONS ENCLOSED IN PARENTHESES ARE FOR REFERENCE AND ARE NOT MARKED ON COMPONENTS.

303. ALL RESISTANCE VALUES IN OHMS UNLESS OTHERWISE SPECIFIED.

304. ALL RESISTORS ARE 1/2 WATT UNLESS OTHERWISE SPECIFIED.

305. ALL CAPACITANCE VALUES IN MICROFARADS UNLESS OTHERWISE SPECIFIED.

306. OPTION SYMBOL.



ISSUE

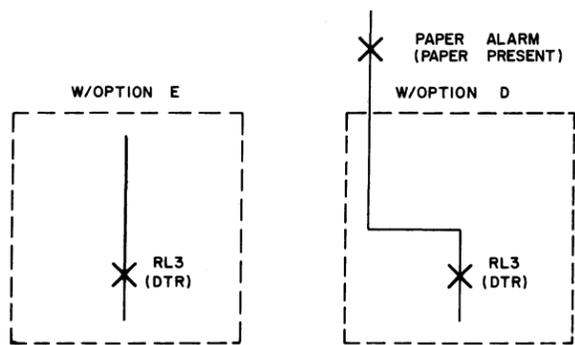
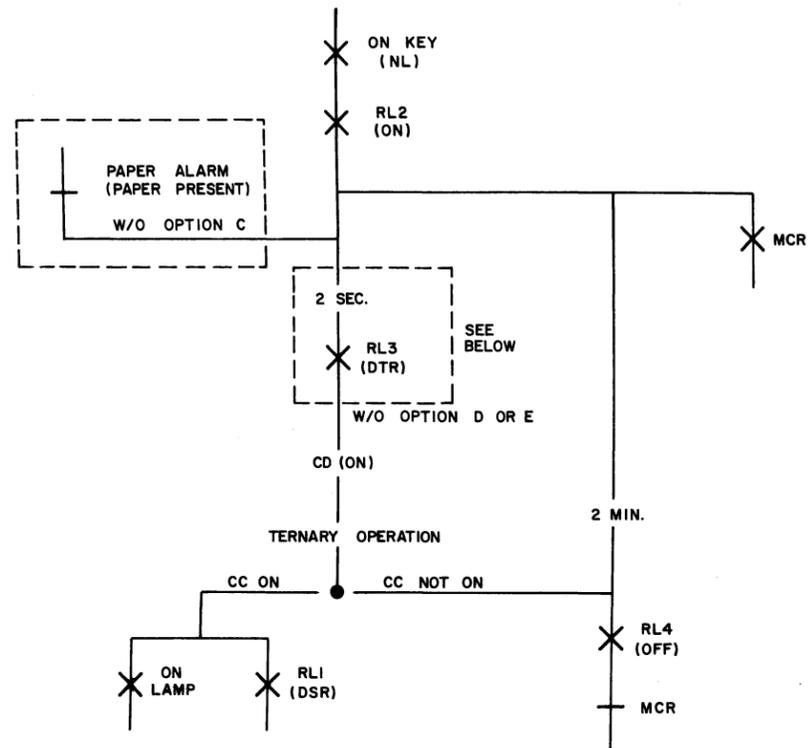
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186627  
SET LOGIC  
ASSEMBLY

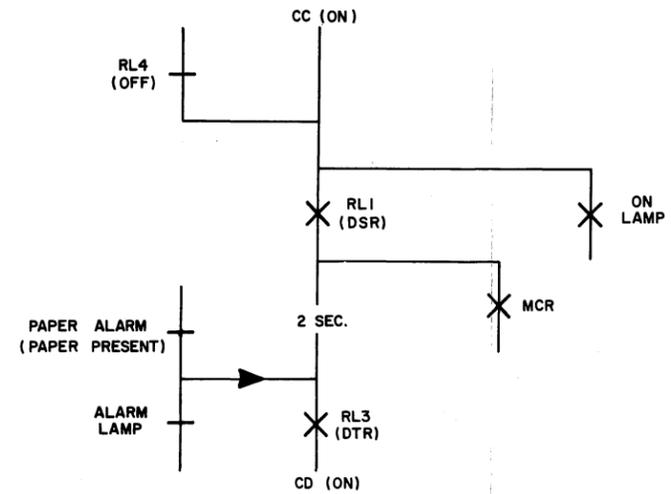


1051 SD - DI

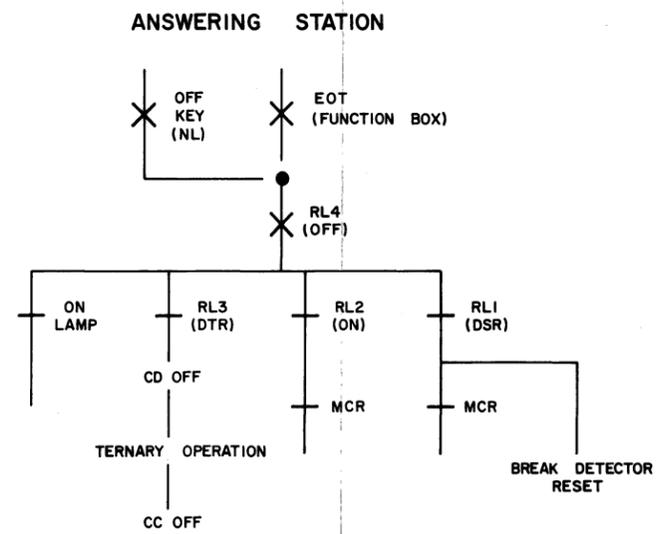
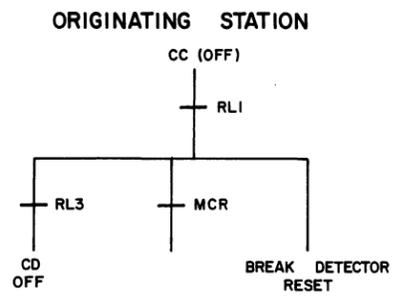
### SC 1 ORIGINATING STATION



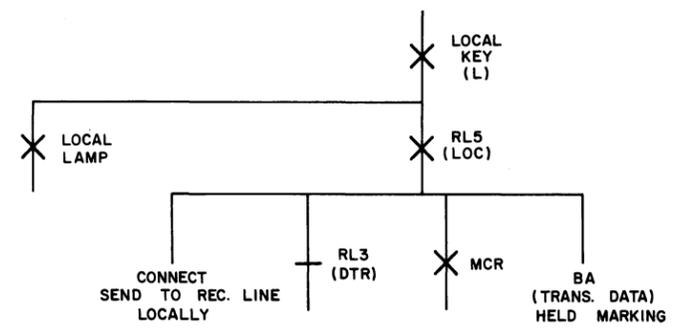
### SC 2 ANSWERING STATION



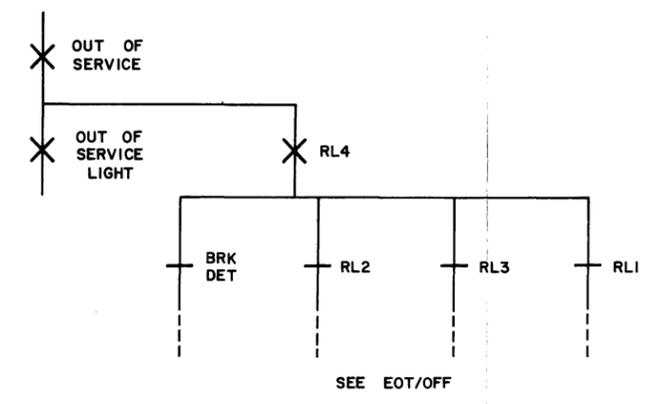
### SC 3 TERMINATE



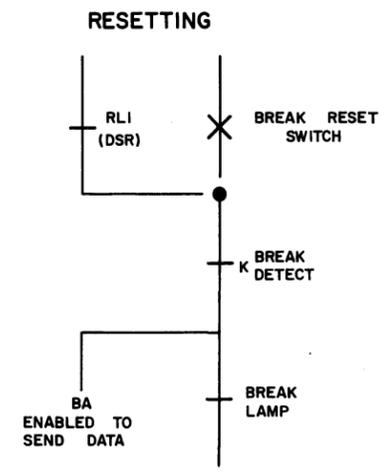
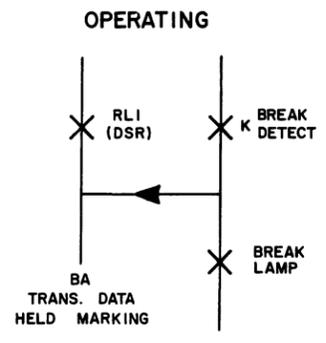
### SC4 LOCAL



### SC5 OUT OF SERVICE



### SC6 BREAK DETECTION



ORIGINAL USE  
M33/35 FINAL  
DIRECT

PARTS REQUIRED		QTY.
PART NO.	DESCRIPTION	
336954	SCREW	19
6347	SCREW	4
7002	FLATWASHER	4
151685	SCREW	4
181241	SCREW	4
186637	CARD ASSEM.	1
186681	BRACKET	1
186682	BRACKET	1
186683	KEY ASSEM.	1
303826	CARD ASSEM.	1
327061	LAMP	5
330906	LABEL	1
330923	LABEL	1
336333	PLATE	1
336334	COLLAR	1
336464	CABLE	1
336601	CABLE	1
336631	LABEL	1
336632	LABEL	1
336633	LABEL	1
336635	LABEL	1
156880	STRAP	3
336957	LABEL	1
121244	CLAMP	1
336959	COVER	1

NOTES:

1. KEY ASSEMBLY POSITION IDENTIFICATION.

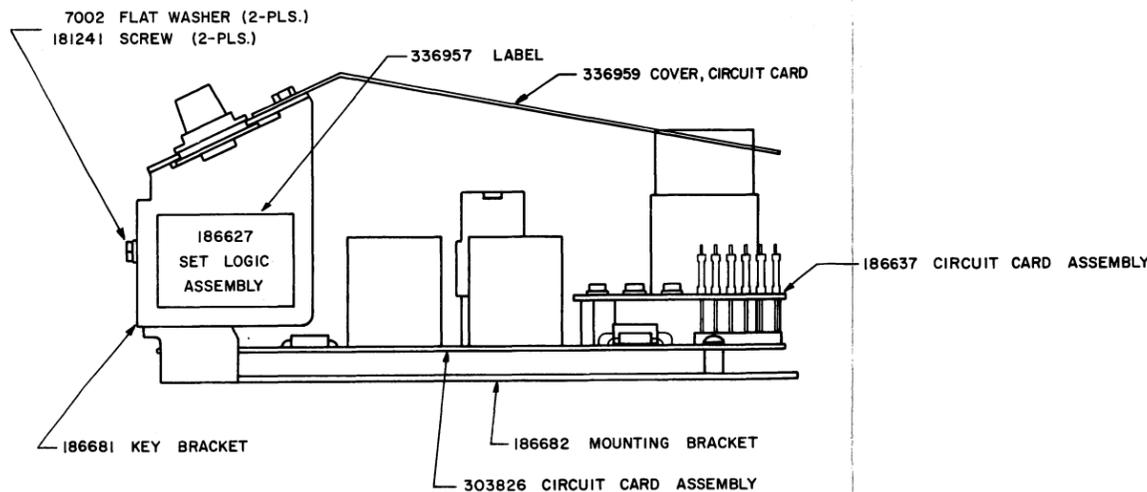
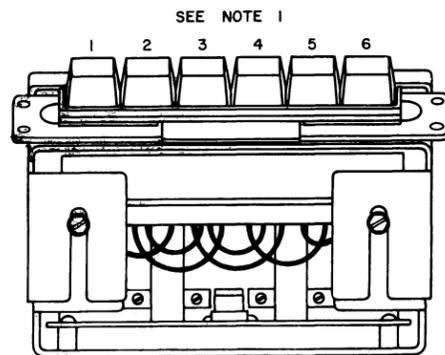
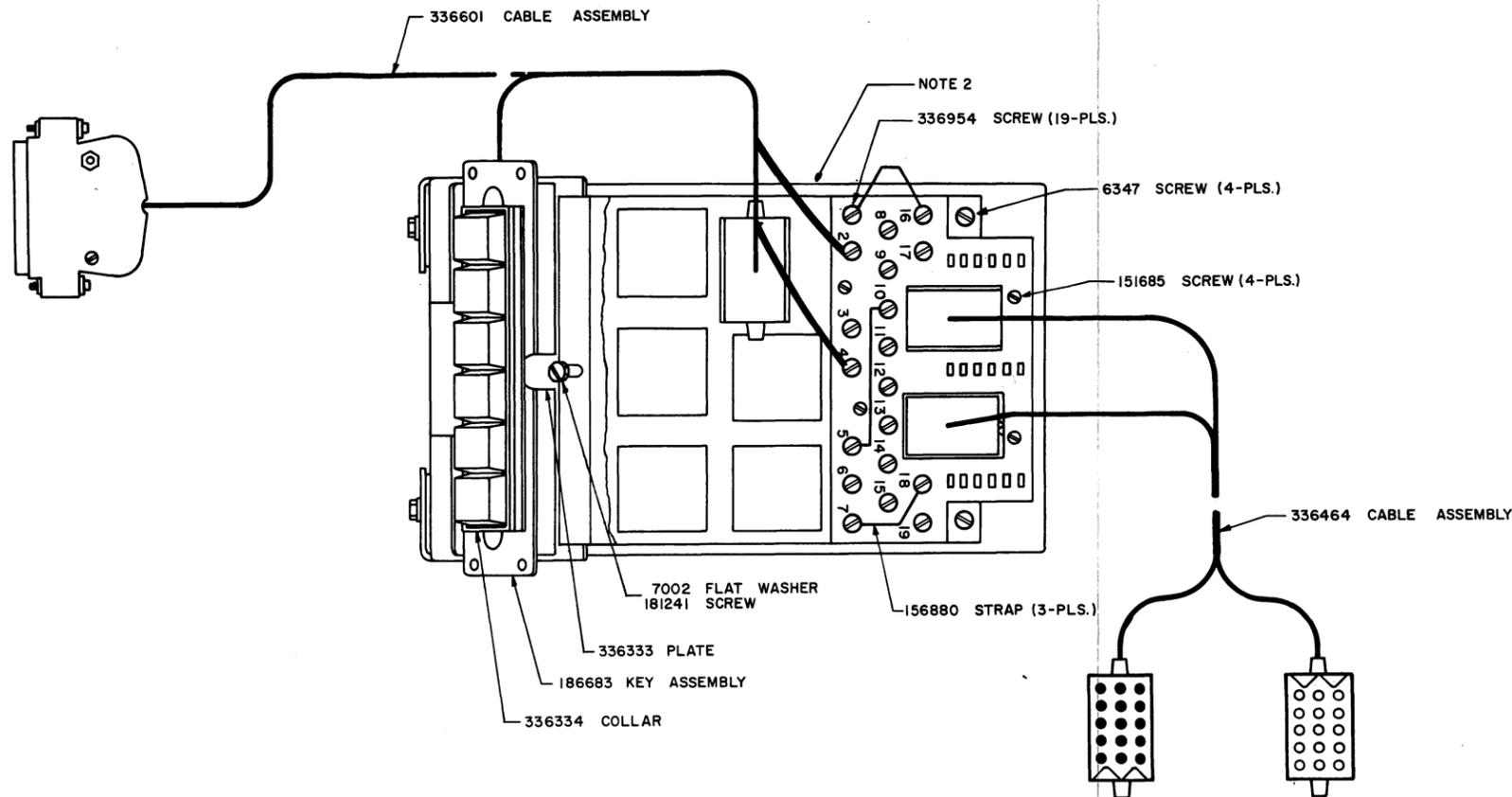
POSITION	1	2	3	4	5	6
LABEL DESIGNATION	OFF	ON	ALARM	LOCAL	OUT OF SERVICE	TEST
LABEL PART NUMBER	336631	336635	330923	336633	330906	336632
LAMP PART NUMBER	NOT REQUIRED	327061	327061	327061	327061	327061

2. ATTACH PURPLE (P) WIRE OF THE 336601 CABLE ASSEMBLY TO TERMINAL NO. 2 OF THE 186637 CIRCUIT CARD ASSEMBLY.

ATTACH SLATE (S) WIRE OF THE 336601 CABLE ASSEMBLY TO TERMINAL NO. 4 OF THE 186637 CIRCUIT CARD ASSEMBLY.

3. WIRE PER AND INCLUDE ONE COPY OF W9P Q238 WITH EACH UNIT.

4. FOR SALES ORDERS ONLY FURNISH A COPY OF 50,694S.



181241 SCREW, 7002 FLATWASHER AND 121244 CABLE CLAMP TO BE ATTACHED AND SHIPPED WITH ASSEMBLY

REFER TO 1051SD FOR SCHEMATIC WIRING

ISSUE	DATE	AUTH. NO.
4	8-18-70	786
3	6-23-70	635
2	5-15-70	508
1	3-3-70	20630R

REVISIONS

APPROVALS

PROJ. SUPV. *TRC* PROJ. DIR. *RRS* MFG. REL. COMPL. *LDM*

ENGR. A. S. DSGNR. A. S.

DRN. C. E. C. DATE 10-15-69

S-NUMBER 61,733

PROD. NO. 186627

R & D FILE 2-165.152AA



186627

TELETYPE CORPORATION - COMPANY PRIVATE

SCALE 1/1

FINISH	HEAT TREAT	MATERIAL SPECIFICATION



186627  
SET LOGIC  
ASSEMBLY

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186627  
SET LOGIC  
ASSEMBLY

SECTION I - GENERAL TECHNICAL DATA

1. Purpose of Circuit

1.01 The 186627 Set Logic Assembly is a basic module designed to provide facilities for the interconnection of Teletype terminal equipment and data sets which conform to the standards of the Electronics Industries Association. In accordance with these standards, all data and control leads of the data set carry polar voltage signals.

1.02 The 186627 Set Logic Assembly accepts current-no-current data and control signals from the teletypewriter and converts them into suitable polar signals for use by the data set. In addition, it accepts polar data and control signals from the data set and converts them into current-no-current signals for use by the teletypewriter.

2. General Description of Operation

2.01 The 186627 Set Logic Assembly, consisting of a main circuit card, a customer interface and connector circuit card, and a pushbutton assembly, is mounted in the front right hand corner of an M33 or M35 terminal.

2.02 The pushbutton assembly consists of six pushbuttons, these are: OFF (non-locking, releasing), ON (non-locking, releasing), ALARM (non-locking, non-releasing), LOCAL (locking, releasing), OUT OF SERVICE (locking, releasing), and TEST (locking, releasing).

2.03 The electronic circuitry required to perform the various set functions is mounted on the main circuit card. The customer interface and connector card is fastened to the main circuit card and is accessible at the rear of the set logic assembly for customer programming.

2.04 The 186627 Set Logic Assembly obtains its operating power from the call control unit in the teletype terminal.

2.05 Data Set Interface Leads

2.05 1 AA - Protective Ground - This conductor shall be electrically bonded to the frame of the terminal apparatus. It may be further connected to external grounds as required by applicable regulations.

2.05 2 AB - Signal Ground - This conductor establishes the common-ground reference potential for all interchange circuits except Circuit AA (Protective Ground). It may be connected to Circuit AA or the frame, as required by applicable regulations, and is available at TB - 18.

2.05 3 BA - Transmitted Data - Signals on this circuit are generated by the terminal apparatus for transmission to remote data sets.

SECTION I (CONTINUED)

2.05 4 BB - Received Data - Signals on this circuit are generated by the data set in response to data signal received from remote data sets.

2.05 5 CB - Clear to Send - Signals on this circuit are generated by the data set to indicate that the data set is ready to transmit data when in the ON condition.

2.05 6 CC - Data Set Ready - Signals on this circuit are generated by the data set to indicate that it is ready to operate (ON condition). The OFF condition indicates either:

- a. Any abnormal or test condition which disables or impairs normal operation.
- b. That the communication channel is switched to an alternate means of communication.
- c. That the data set is not connected to the communication channel.

2.05 7 CD - Data Terminal Ready - Signals on this circuit are generated by the terminal apparatus to control switching of the data set to a communications channel. The ON condition causes the data set to be connected to a communications channel. The OFF condition removes the data set from a communications channel for such reasons as terminating a call, freeing the line for alternate use, or permitting the use of the terminal apparatus for an alternate function.

2.05 8 CE - Ring Indicator - Signals on this circuit are generated by the data set to indicate that ringing current is being received from a remote station. The ON condition indicates that a ringing signal is being received with the OFF condition maintained at all other times.

2.06 Modes of Operation

2.06 1 The control circuits provide for the following modes of operation.

- a. Call Origination
- b. Unattended Answering
- c. Local
- d. Out of Service
- e. Alarm
- f. Test
- g. Terminating a Call

SECTION I (CONTINUED)

2.07 Call Origination

2.07 1 The attendant must depress the ON pushbutton of the set logic assembly. (Refer to the appropriate data set circuit description for the correct dialing procedure, if applicable).

2.07 2 When the ON pushbutton is depressed, the Data Terminal Ready and the Disconnect Timers are activated, if the terminal is equipped with break detection circuitry, this circuitry is enabled at this time.

2.07 3 Approximately 2 seconds after the Data Terminal Ready Timer is activated, the set logic assembly transmits a Data Terminal Ready (CD) signal to the Data Set.

2.07 4 A connection must be made and the data set must have sent a Data Set Ready (CC) signal to the terminal within 2 minutes or the terminals disconnect circuitry will terminate the call.

2.08 Unattended Answering

2.08 1 If the remote terminal data set is equipped to answer a call automatically, that terminal can answer a call automatically and without an attendant being present.

2.09 Local

2.09 1 To enter the LOCAL mode, the attendant must depress the LOCAL pushbutton of the set logic assembly. This will energize the LOCAL relay which in turn puts a marking signal on the Transmit Data (BA) lead and the Data Terminal Ready (CD) lead is held in the off condition.

2.10 Out of Service

2.10 1 An OUT OF SERVICE pushbutton has been provided on the set logic assembly. When this key is depressed, such as for maintenance, a call cannot be answered automatically.

2.11 Alarm

2.11 1 An ALARM indication lamp has been provided that indicates a low paper condition.

2.12 Test

2.12 1 A TEST pushbutton has been provided on the set logic assembly, this pushbutton will activate external circuitry.

2.13 Terminating a Call

2.13 1 A call can be terminated in one of two ways, both of these procedures are recognized by the set logic assembly identically.

SECTION I (CONTINUED)

- a. Transmission of an EOT code from a teletypewriter terminal.
- b. Depressing the OFF pushbutton.

3. Support Information

3.01 The following documents are offered as support information for the 186627 Set Logic Assembly:

WDPO238 Wiring Diagram Package for the 186627 Set Logic Assembly.

8163WD Model 33 Automatic Send-Receive Keyboard Send-Receive and Receive only sets using the UCC29.

SECTION II - DETAILED DESCRIPTION

1. Originating a Call (FS-2)

1.01 The operator must depress the non-locking ON pushbutton. The RL2 relay energizes through the ON pushbutton. The RL2 relay is held energized through RL4-5B, RL1-4B, RL2-4M and the normally closed OFF pushbutton. When the RL2 relay energized, the RL2-2M contact closed, thus energizing the motor control relay, starting the motor and the Disconnect Timing Circuit.

1.02 When the RL2 relay energized, RL2-3M closed which started the Data Terminal Ready Timing Circuit. After 2 seconds the Data Terminal Ready Timing Circuit activated, energizing the RL3 relay through RL4-6B, RL5-2B, RL2-3M, and either the normally closed paper alarm contact or RL2-1M contact. The RL2-1M contact is an option that is provided by strapping TB-7 to TB-18, this will allow a station to originate a call in a low paper or paper out condition. The CC lead (P2-6) must go positive within 2 minutes after the ON key is depressed. The RL3 relay is now held energized through RL3-5M and RL1-2M. Normally, J1-1 is at -10 volts which indicates Data Terminal is not ready. When RL3 energizes RL3-6B opens, putting a +20V DC on J1-1 which indicates Data Terminal Ready.

1.03 When the CC lead goes positive the Q2 transistor turns on which energizes the RL1 Relay through RL4-4B, and the ON pushbutton is illuminated. Two minutes after depressing the ON pushbutton the Disconnect Timing Circuit activates and attempts to energize the RL4 Relay through RL1-1B, since the CC lead is on, the RL1 Relay would be energized opening the RL1-1B, thus preventing the RL4 Relay from being energized. If the CC lead did not turn on within 2 minutes, the RL1 Relay would not energize, thus the RL1-1B contact would be closed and the RL4 Relay would be energized which would terminate the call and turn off the motor.

1.04 If the CC lead did come up then the motor is running and the terminal is ready to transmit or receive data. At the conclusion of transmission, the call can be terminated by receiving an EOT character which causes operation of the RL4 Relay or by the operator pushing the OFF pushbutton which also operates the RL4 Relay. This causes the RL3 Relay to drop out by opening the RL4-6B contact which turns off the CD lead and transferring the RL4-4 contact which causes RL1 to drop

SECTION II (CONTINUED)

out. RL4-4M locks RL4 to ground through the Q2 transistor. When the CD lead turns off, the data set takes down the CC lead and RL4 drops out. The ON lamp is extinguished.

2. Receiving a Call (FS-2)

2.01 The Teletype terminal can answer a call unattended, as follows: the CC lead comes up turning on Q2 which energizes the RL1 Relay. With the RL1 Relay energized, RL1-5M closes which enables the break detection circuit. Once RL1 energizes, the sequence is the same as a manual start except the motor is started by the RL1-6M contact and Data Terminal Ready Timing Circuit is started by the RL1-3M contact. The CD lead (P2-20) going on indicates to the data set that the terminal is ready and the call should be maintained. If CD doesn't come up, CC will go down thus removing power from the RL1 relay and turning the motor off.

3. Send Circuit Operation (FS-1)

3.01 Half Duplex

3.01 1 When the send and break contacts are closed, -20 volts is applied to the junction R10 and CR11. Diode CR11 conducts causing the positive terminal of capacitor C1 to charge rapidly to about -15 volts from the voltage divider formed by CR11, R11 and R12 turning transistor Q7 off due to the application of this negative voltage to its base. A voltage of -8 volts is applied to the BA lead (P2-2) through the voltage divider consisting of R10, CR10, and the data set impedance indicating a mark. At the same time, a -20 volts is applied to the anode of CR1 which turns Q1 on, energizing the selector magnet driver. When either the send or break contact opens, +20 volts is applied to the BA lead (P2-2) indicating a space. The send contact opening will cause +20 volts to be applied to the anode of CR1 which turns off Q1, dropping out the selector magnet driver. The break contact opening will have no effect on CR1, therefore, it will not be recognized by the selector magnet driver. If this open contact condition lasts for more than 500 milliseconds, as would be caused by holding the BREAK key operated, capacitor C1 discharges through R12 to ground. After about 500 milliseconds of discharge, Q7 conducts and remains conducting until the open contact condition ceases. With Q7 conducting -6 volts is applied to the BA lead (P2-2) through RL4, CR12 and Q7 which forms a voltage divider with the data set impedance.

3.02 Full Duplex

3.02 1 Full duplex operation would be the same as for half duplex operation, except that the path to the anode of CR1 is now open, therefore, the local selector magnet driver will not respond to incoming signals and no local copy will be received.

4. Receive Circuit Operation (FS-1)

4.01 A negative voltage of -20 volts maximum at BB (P2-3) will cause Q1 to be on, which indicates mark, causing the selector magnet driver to be energized. A positive voltage of +20 volts maximum will cause Q1 to be off, indicating space, and de-energizing the selector magnet driver.

SECTION II (CONTINUED)

5. Local Operation (FS-1 & 3)

5.01 The LOCAL locking pushbutton will energize the RL5 Relay. This closes RL5-6M which will keep the BA lead at a -20 volts. The RL5-2B contact opens the operate path for the RL3 Relay, thus maintaining the CD lead at a -10 volts indicating that the data terminal is not ready. The RL5-3M contact also closes which operates the Motor Control relay starting the station's motor. The terminal now operates locally. To get out of local and in an off condition, the OFF pushbutton is depressed which mechanically releases the LOCAL pushbutton, dropping out the RL5 Relay. When the LOCAL pushbutton is depressed, the lamp under the pushbutton is on.

6. Strapping Options

6.01 Option A - Half Duplex (FS-1)

6.01 1 By strapping TB-16 to TB-17, the send circuit signals are fed into the receive circuit and the set is in half duplex.

6.02 Option B - Full Duplex (FS-1)

6.02 1 By strapping TB-1 to TB-16, the send circuit signals are isolated from the receive circuit in an on line mode, and the set is in full duplex. (Factory wired).

6.03 Option C - Low Paper Originating (FS-3)

6.03 1 By strapping TB-7 to TB-18 (circuit common) the set will be able to originate a call in a low paper condition.

6.04 Option D - DATA-PHONE ® (FS-3)

6.04 1 By strapping TB-14 to TB-19 the data terminal ready relay will be held energized, thus indicating to the data set that the terminal is ready. This is required in automatic answer DATA-PHONE ® applications.

6.05 Option E - Data Terminal Ready Timer Bypass (FS-3)

6.05 1 By strapping TB-15 to TB-19 the data terminal ready timing circuit would be bypassed.

6.06 Option F - Distributor Control (FS-5)

6.06 1 By strapping TB-5 to TB-10 the set's distributor would be enabled.

7. Controls

7.01 Off

7.01 1 The OFF pushbutton does not contain an indicator lamp.

SECTION II (CONTINUED)

7.01 2 Depressing the OFF pushbutton operates the RL4 Relay, thus placing the terminal in the off condition. The OFF pushbutton overrides any remote start-up command and the terminal will be off as long as the pushbutton is depressed.

7.01 3 Operating the OFF pushbutton will release any locking pushbutton that had been depressed. (LOCAL, OUT OF SERVICE OR TEST).

7.02 On

7.02 1 The ON pushbutton contains an indicator lamp. The lamp is on whenever the terminal receives a Data Set Ready (CC) from the data set.

7.02 2 Depressing the ON pushbutton operates the RL2 Relay, the procedure that would follow is fully described in paragraph 1 of this section.

7.02 3 Operating the ON pushbutton will release any locking pushbutton that had been depressed.

7.03 Local

7.03 1 The LOCAL pushbutton contains an indicator lamp. The lamp is on whenever the terminal is in the Local mode.

7.03 2 Depressing the LOCAL pushbutton operates the RL5 Relay, the procedure that would follow is fully described in paragraph 5 of this section.

7.03 3 Operating the LOCAL pushbutton will release any other locking pushbutton that had been depressed.

7.04 Out of Service

7.04 1 The OUT OF SERVICE pushbutton contains an indicator lamp. The lamp is on whenever the terminal is placed in the Out of Service mode.

7.04 2 Depressing the OUT OF SERVICE pushbutton holds the RL4 Relay operated, thus placing the terminal in the Off mode.

7.04 3 Operating the OUT OF SERVICE pushbutton will release any other locking pushbutton that had been depressed.

7.05 Test

7.05 1 The TEST pushbutton contains an indicator lamp. The lamp is on whenever the TEST pushbutton is depressed.

7.05 2 Depressing the TEST pushbutton closes the L1-1/3 contact of the pushbutton assembly. This contact is presented at TB-2 and TB-4 and is intended to activate external test circuitry.

7.05 3 Operating the TEST pushbutton will not prevent the terminal from receiving a call as described in paragraph 2 of this section.

SECTION II (CONTINUED)

7.05 4 Operating the TEST pushbutton will release any other locking pushbutton that has been depressed.

8. Indicators

8.01 Alarm

8.01 1 The ALARM lamp is turned on when the terminal goes into a low paper (or paper out with sprocket feed) condition. If a message is being transmitted when a low paper condition is sensed, the operation of the terminal will remain unaffected. After the terminal is turned off, a call may be originated only if Option C (see paragraph 6.03 of this section) has been implemented, but a call cannot be received.

9. Power (FS-6)

9.01 +24 VDC and -20 VDC are supplied to the logic assembly from the call control unit (UCC29) contained in the teletypewriter.

9.02 The +24 VDC and -20 VDC together with zener diodes CR5 and CR6 and resistors R5 and R8 are used to supply -20 VDC clamped and +20 VDC clamped for EI4 output leads.

10. Timing Circuit Operation (FS-2 & 3)

10.01 Component cross reference:

<u>Designation</u>	<u>Disconnect Timer (2 min.)</u>	<u>Data Terminal Ready Timer (2 sec.)</u>
Ra	R21	R17
Rb	R22	R16
Rc	R25	R20
C	C2	C3
Qa	Q5	Q3
Qb	Q6	Q4

10.02 When Relay RL1 or RL2 are operated, +24 VDC is applied across the RC Timing components Rc and C when the voltage at the junction of Rc and C is approximately 12.5 VDC, Qa is turned on. The turn on time is determined by time constant multiplier which is provided by the gate voltage divider Ra and R6. When Qa turns on it pulses the gate of Qb thus turning Qb on.

SECTION III - REFERENCE DATA

1. Working Limits

1.01 Ambient Temperature Range - 40°F to 110°F.

1.02 Relative Humidity Range - 0 to 95 percent.

SECTION III - (CONTINUED)

2. Abbreviations and Functional Designations

2.01 Abbreviations Used:

AA	Protective Ground
AB	Signal Ground
BA	Transmitted Data
BB	Received Data
CB	Clear to Send
CC	Data Set Ready
CD	Data Terminal Ready
CE	Ring Indicator

2.02 Functional Designations

<u>Designation</u>	<u>Meaning</u>
C	Capacitor
CR	Diode
J1	Receptacle, Pushbutton Assembly
J3	Receptacle, "Piggyback" Card
J4	Receptacle, Call Control Unit
J5	Plug, Call Control Unit
L	Plug, Pushbutton Assembly
P1	Plug, Pushbutton Assembly cable
P2	Plug, EIA, Data Set
P3	Plug, "Piggyback" Card
Q	Transistor, SCR or PUT
R	Resistor
RL1	Relay, Data Set Ready
RL2	Relay, On
RL3	Relay, Data Terminal Ready
RL4	Relay, Off
RL5	Relay, Local
TB	Terminal Board

3. Connecting Circuits

3.01 Data sets or stations conforming to EIA RS-232-B Standard.

3.02 Teletype machines equipped with a UCC29.

SET LOGIC ASSEMBLY

186627

ORIGINAL USE  
M33/35 FINAL  
DIRECT

PARTS REQUIRED	
PART NO.	DESCRIPTION QTY.
336954	SCREW 19
6347	SCREW 4
7002	FLATWASHER 4
151685	SCREW 4
181241	SCREW 4
186637	CARD ASSEM. 1
186681	BRACKET 1
186682	BRACKET 1
186683	KEY ASSEM. 1
303826	CARD ASSEM. 1
327061	LAMP 5
330906	LABEL 1
330923	LABEL 1
336333	PLATE 1
336334	COLLAR 1
336464	CABLE 1
336601	CABLE 1
336631	LABEL 1
336632	LABEL 1
336633	LABEL 1
336635	LABEL 1
156880	STRAP 3
336957	LABEL 1
121244	CLAMP 1
336959	COVER 1

NOTES:

1. KEY ASSEMBLY POSITION IDENTIFICATION.

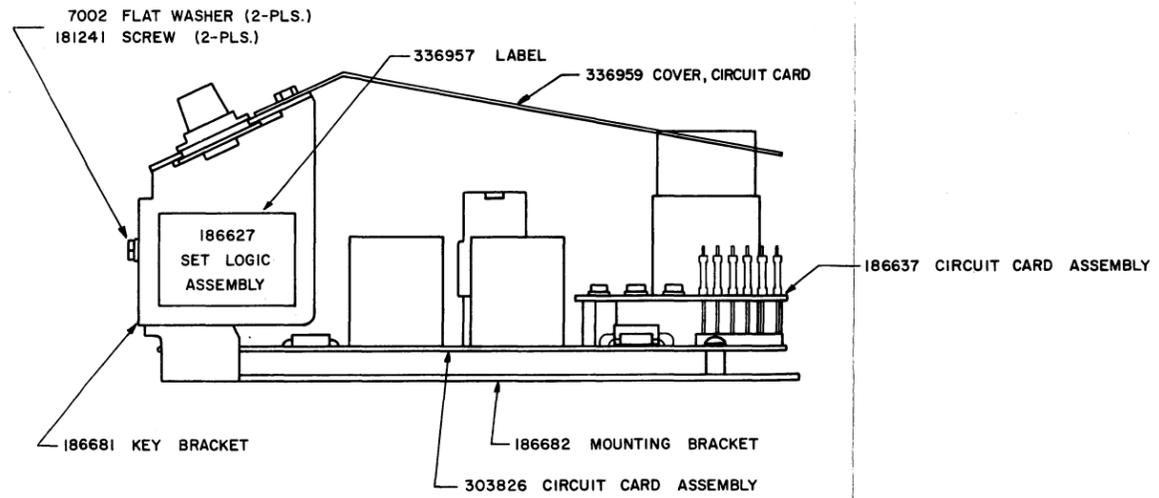
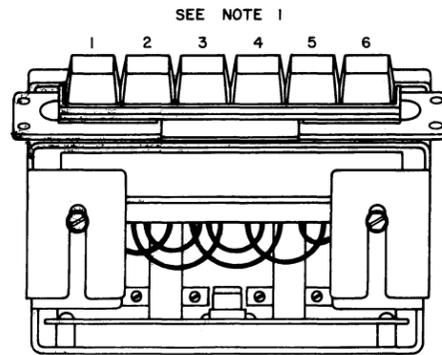
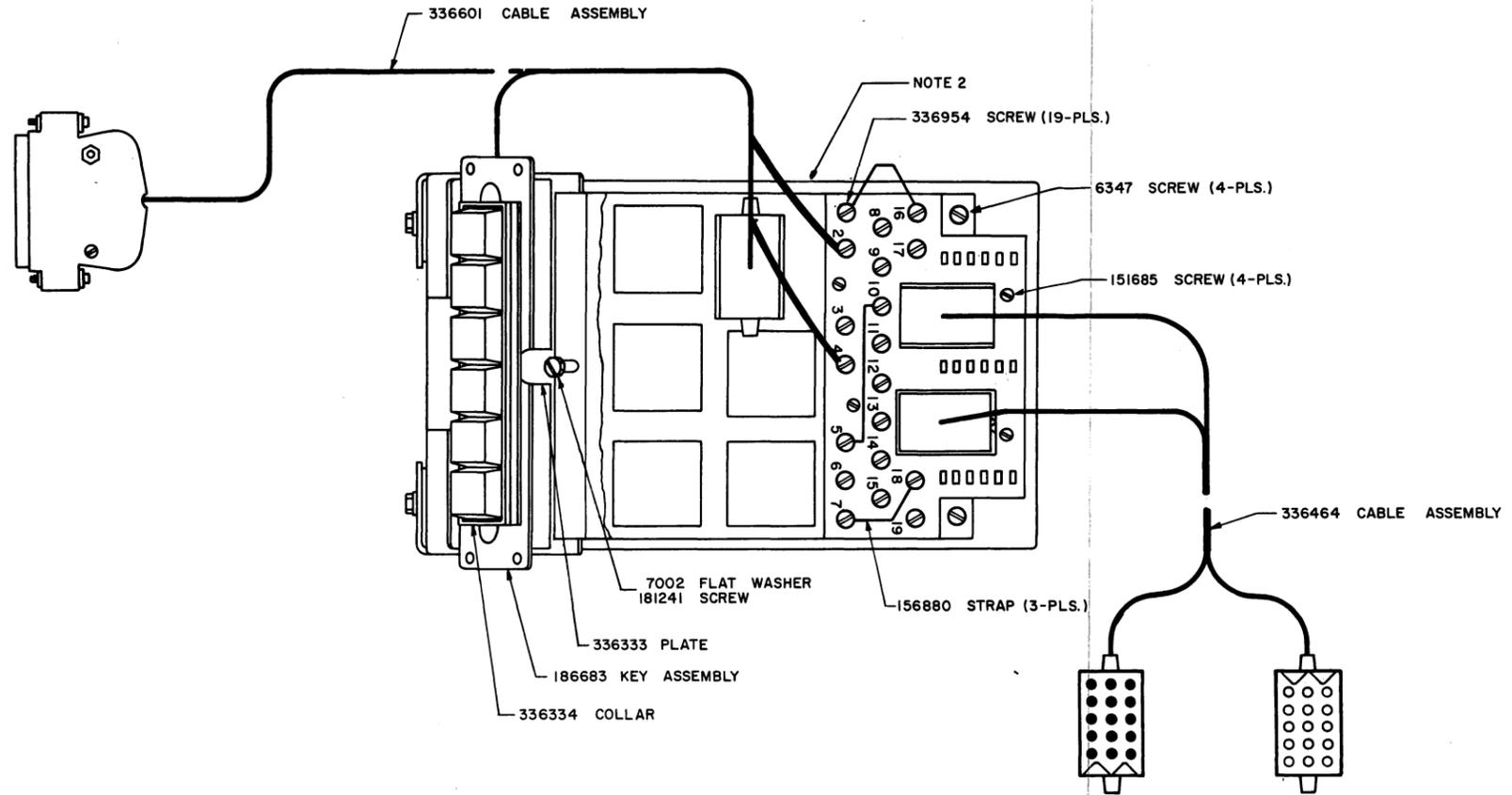
POSITION	1	2	3	4	5	6
LABEL DESIGNATION	OFF	ON	ALARM	LOCAL	OUT OF SERVICE	TEST
LABEL PART NUMBER	336631	336635	330923	336633	330906	336632
LAMP PART NUMBER	NOT REQUIRED	327061	327061	327061	327061	327061

2. ATTACH PURPLE (P) WIRE OF THE 336601 CABLE ASSEMBLY TO TERMINAL NO. 2 OF THE 186637 CIRCUIT CARD ASSEMBLY.

ATTACH SLATE (S) WIRE OF THE 336601 CABLE ASSEMBLY TO TERMINAL NO. 4 OF THE 186637 CIRCUIT CARD ASSEMBLY.

3. WIRE PER AND INCLUDE ONE COPY OF WDP Q238 WITH EACH UNIT.

4. FOR SALES ORDERS ONLY FURNISH A COPY OF 50,694S.



181241 SCREW, 7002 FLATWASHER AND 121244 CABLE CLAMP TO BE ATTACHED AND SHIPPED WITH ASSEMBLY

REFER TO 1051SD FOR SCHEMATIC WIRING

4	8-18-70	786
3	6-23-70	635
2	5-15-70	508
1	3-3-70	20630 R

ISSUE DATE AUTH. NO.

REVISIONS

APPROVALS

PROJ. SUPV.	PROJ. DIR.	MFG. REL. COMPL.
TDC	RRS	LDM

ENGR. A. S. DSGNR. A. S.

DRN. C.E.C. DATE 10-15-69

S-NUMBER 61,733

PROD. NO. 186627

R & D FILE 2-165.152AA

TELETYPE CORPORATION - COMPANY PRIVATE

SCALE 1/1

FINISH	HEAT TREAT	MATERIAL SPECIFICATION



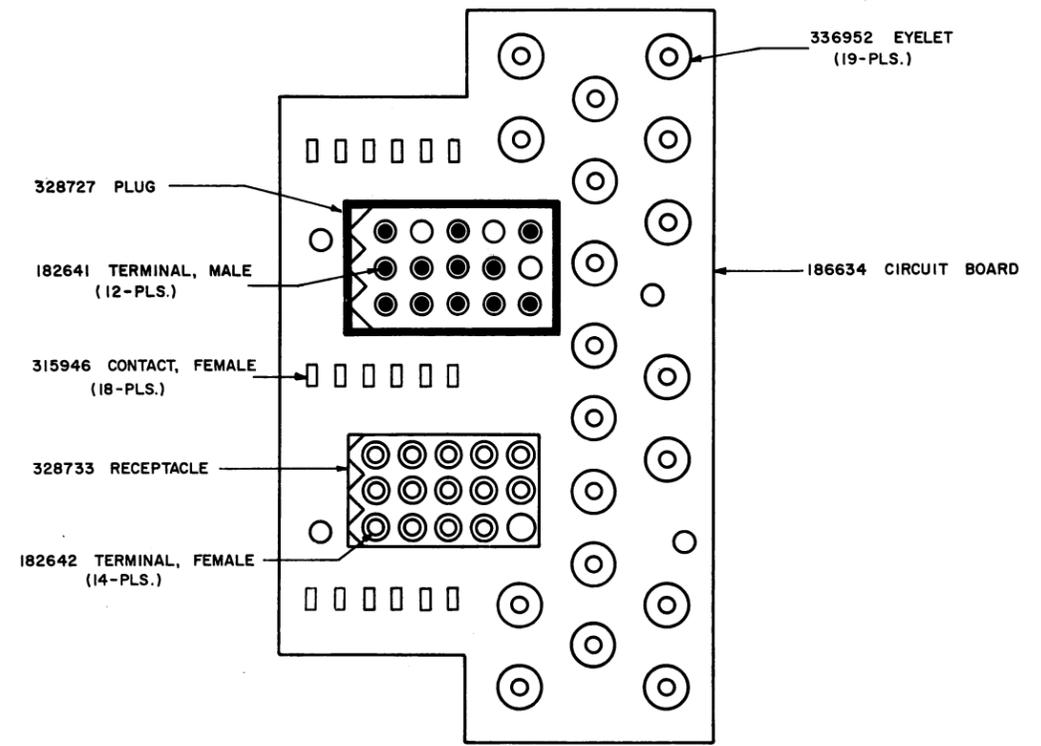
186627

REF. DESIG.	PART NO. REQ.	QTY	DESCRIPTION
328727	1		PLUG, 15 CIRCUIT
328733	1		RECEPTACLE, 15 CIRCUIT
182641	12		TERMINAL, MALE
182642	14		TERMINAL, FEMALE
315946	18		CONTACT, FEMALE
336952	19		EYELET

NOTE: PRINTING SCREEN TO BE MADE FROM MASTER ARTWORK NO. 186637 AW. ARTWORK AVAILABLE IN R & D OFFICE SERVICE SECTION.

186634	1		CIRCUIT BOARD
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REVISIONS		
ISSUE	DATE	AUTH. NO.
1	1-21-70	20630-R



REFER TO 1051 SD FOR SCHEMATIC WIRING

SIMILAR TO:

CIRCUIT CARD  
  
186637  
CIRCUIT CARD  
ASSEMBLY

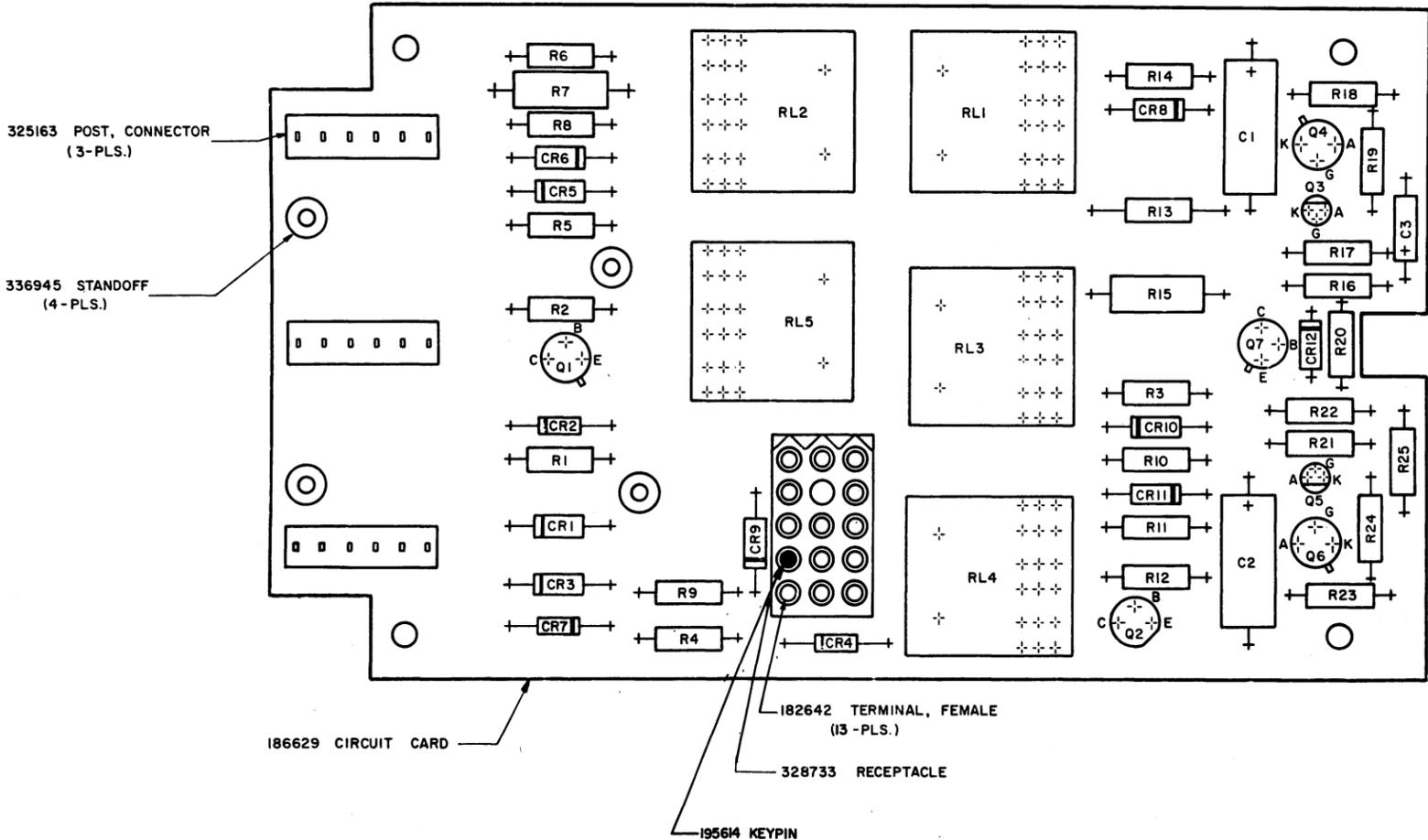
APPROVALS		
PROJ. SUPV.	PROJ. DIR.	MFG. REL. COMPL.
<i>TR</i>	<i>RRS</i>	<i>LDM</i>
ENGR. A. S.	DSGR. A. S.	
DRN. C.E.C.	DATE 10-9-69	
E-NUMBER		
SD-CD NO. 1051		
R & D FILE 2-165.152AA		

TELETYPE  
  
**186637**

REF. DESIG.	PART NO. REQ.	QTY.	DESCRIPTION
C1	336946	1	CAPACITOR, 100MFD, 20V
C2	336947	1	CAPACITOR, 10 MFD, 35V
C3	334948	1	CAPACITOR, 1 MFD, 35V
CR1	181653	7	DIODE, 1N645
CR2	177108	3	DIODE, D2
CR3			SAME AS CR1
CR4			SAME AS CR2
CR5	323606	2	DIODE, 1N4747A
CR6			SAME AS CR5
CR7			SAME AS CR2
CR8			SAME AS CR1
CR9			SAME AS CR1
CR10			SAME AS CR1
CR11			SAME AS CR1
CR12			SAME AS CR1
Q1	319304	1	TRANSISTOR
Q2	315930	1	TRANSISTOR 2N3568
Q3	333248	1	PUT D13T1
Q4	336949	2	SCR 2N2323
Q5	327946	1	PUT D13T2
Q6			SAME AS Q4
Q7	300455	1	TRANSISTOR 2N697
R1	129851	4	RESISTOR 3.3K, 1/2W
R2	118153	1	RESISTOR 33K, 1/2W
R3			SAME AS R1
R4			SAME AS R1
R5	143661	3	RESISTOR, 330 $\Omega$ , 1/2W
R6			SAME AS R5
R7	117729	1	RESISTOR, 2.7K 1W
R8			SAME AS R5
R9			SAME AS R1
R10	137439	1	RESISTOR, 820 $\Omega$ , 1/2W
R11	320442	1	RESISTOR, 240 $\Omega$ , 1/2W
R12	118186	1	RESISTOR, 5.6K, 1/2W
R13	137603	1	RESISTOR, 510 $\Omega$ , 1/2W
R14	118725	1	RESISTOR, 270 $\Omega$ , 1/2W
R15	165867	1	RESISTOR 3K, 1W
R16	118169	2	RESISTOR 1M, 1/2W
R17	336950	3	RESISTOR 1.6M, 1/2W
R18	143667	2	RESISTOR 3.9K, 1/2W
R19	137440	2	RESISTOR 1K, 1/2W
R20			SAME AS R17
R21			SAME AS R16
R22			SAME AS R17
R23			SAME AS R18
R24			SAME AS R19
R25	336951	1	RESISTOR 12M, 1/2W
336945	4		STANDOFF
325163	3		POST, CONNECTOR
328733	1		RECEPTACLE, 15 CIRCUIT
182642	13		TERMINAL, FEMALE
144495	5		TRANSISTOR PAD
195614	1		KEYPIN
136629	1		CIRCUIT BOARD
RL1	336953	5	RELAY
RL2			SAME AS RL1
RL3			SAME AS RL1
RL4			SAME AS RL1
RL5			SAME AS RL1

NOTE: PRINTING SCREEN TO BE MADE FROM MASTER ARTWORK NO. 303826 AW ARTWORK AVAILABLE IN R & D OFFICE SERVICE SECTION.

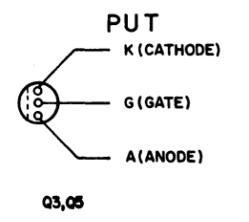
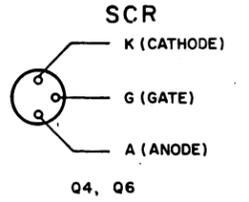
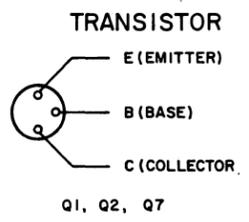
SIMILAR TO:



REFER TO 1051 SD FOR SCHEMATIC WIRING

REVISIONS		
ISSUE	DATE	AUTH. NO.
1	1-21-70	20630-R
2	5-18-70	508

BOTTOM VIEWS



CIRCUIT CARD  
EC 826  
303826  
CIRCUIT CARD  
ASSEMBLY

APPROVALS		
PROJ. SUPV.	PROJ. DIR.	MFG. REL. COMPL.
TDC	PRS	
ENGR. A.S.	DSGNNR. A.S.	
DRN. C.E.C.	DATE 10-7-69	
E-NUMBER		
SD-CD NO. 1051		
R & D FILE 2-165.152AA		



303826

ISSUE CONTROL RECORD

6000 WD

NO.	NOTES	SUPPORTING INFORMATION		CONTENTS	SHEET NO.	ISSUE																		
		CATEGORY	NO.			2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	
1.	FOR CROSS REFERENCE OF BELL AND TELETYPE CODES SEE E.S.I. 4.002-35	TECHNICAL MANUAL - MODEL 35 AUTOMATIC SEND-RECEIVE TELETYPEWRITER SET (ASR)  DATA SET 101C 105A  8G 25F1 26C 41A  DATA SYSTEMS ATTENDANT CIRCUIT RELATED ACTUAL WIRING DIAGRAMS AND DRAWINGS: LRB301 ANSWER BACK LCX8800 LP806 LP805 LPR801 OR LPR804 LP SELECTOR MAGNET DRIVER LAK803 LXD803 LESU301 LCCU300 LRPE SMD WITH 193440 CARD LRB300 LESU306 WITH 193440 SMD CARD LT300 LRPE SMD WITH 182630 CARD LPR802 OR LPR805 LAK811 LESU326 LESU306 WITH 182630 SMD CARD  DATA STATION CIRCUIT 101C 105A  DIALER (CONTINUED) 35NIA 36J	BULLETIN 280B	FS-1 CALL PROGRESS OR DIAL TONE FS-2 TEST FS-3 BREAK RELEASE FS-4 RESTRAIN FS-5 CLEAR FS-6 ANSWER FS-7 ORIGINATE  FS-8 ROTARY DIAL AND PULSING CARD DIALER FS-9 AMPLIFIER  FS-10 TOUCH TONE DIALER  FS-11 MODE SWITCH LAMPS FS-12 MODE SWITCH CONTROL  FS-13 SIGNAL GENERATORS AND SELECTOR MAGNET DRIVERS  FS-14 TD AND ANSWER BACK CONTROL  FS-15 PAPER OUT DISCONNECT FS-16 FORM OUT MAGNET FS-17 EOT DISCONNECT  FS-18 LOCAL FS-19 MOTOR CONTROL RELAY FS-20 OUT OF SERVICE INDICATOR FS-21 RINGER CIRCUIT AND OFF HOOK CIRCUIT  FS-22 PAPER ALARM  FS-23 ROTR CONTROL CIRCUITS  FS-24 POWER AND CABINET CIRCUITS  FS-25 SIGNAL REGENERATOR  APP. FIG. 1 (PART OF) APP. FIG. 1 (PART OF) APP. FIG. 1 (PART OF) APP. FIG. 2 APP. FIG. 3 APP. FIG. 4 APP. FIGS. 5,6,7,8,9,10,11,AND12  CIRCUIT NOTES 101-104  SC-1 KEYBOARD MODE SC-2 KEYBOARD - TAPE MODE SC-3 TAPE MODE SC-4 TAPE TO TAPE SEND MODE SC-5 TAPE-TO-TAPE RECEIVE MODE SC-6 ANSWER BACK AT ORIGINATING STATION SC-7 ANSWER BACK AT ANSWERING STATION  SC-8 TRANSMITTER DISTRIBUTOR CONTROLS SC-9 RIBBON SHIFT (OR PRINT SUPPRESSION) MAGNET ON TYPING REPERFORATORS SC-10 CONTROL OF CHARACTER COUNTER AND E.O.L. LIGHT  SC-11 HORIZONTAL OR VERTICAL TAB OR FORM FEED SC-12 FORM OUT ON DISCONNECT SC-13 MOTOR CONTROL  SC-14 LOW PAPER ALARMS SC-15 ROTR CONTROL  CIRCUIT DESCRIPTION (47 PAGES) SEE 6000WD-CD, PAGE 1 FOR PAGE CHECK LIST	B1	X	X	X	X	X														
2.	ISSUE 1 OF THIS ISSUE CONTROL SHEET REPLACES ISSUE 49 OF 6000WD-A1.																							
3.	WIRING WAS CHANGED TO PROVIDE PROPER MSK RELAY CONTACT OPERATION SEQUENCE WITH 323609 SIGNAL REGENERATOR CIRCUIT CARD. FORMER WIRING WAS AS FOLLOWS.  																							
4.	500Ω RESISTOR IS USED IN EARLY DESIGN SETS.																							
5.	27KΩ RESISTOR IS NOT PRESENT ON SOME SETS.																							
6.	NETWORK AND STRAP ARE NOT PRESENT ON SOME SETS.																							
7.	FUSE IS NOT PRESENT ON SOME SETS.																							
8.	C FUSE TERMINATION TR-2 CHANGED TO R-1 WHEN AG FUSE ADDED.																							
9.	WIRING STATUS: RECTANGULAR BOX INDICATES HISTORY OF WIRING CHANGES 																							
10.	WIRING WAS CHANGED TO PROVIDE MAKE BEFORE BREAK TRANSFER CONTACT FOR ENERGIZING RCR RELAY. FORMER WIRING WAS AS FOLLOWS.  																							
11.	SOME UNITS DO NOT HAVE THIS NETWORK																							
12.	ON ISSUE 19 OF SHEET B13, DIODE CRI1A WAS ABSENT.																							

REVISIONS APPLYING TO THIS CONTROL RECORD		
ISSUE	DATE	AUTH. NO.
1	2-24-66	
2	4-6-66	90550
3	6-10-66	90658
4	10-27-66	91933-1
5	12-9-66	92594 RC
6	1-4-67	93002 RC
7	3-30-67	93019
8	6-29-67	94201
9	8-21-67	94324-B
10	1-24-68	94665
11	5-8-68	95523-4
12	5-9-68	95810
13	11-15-68	96529
14	12-13-68	96463
15	5-19-69	99164
16	1-9-70	99875
17	5-7-70	8

ISSUE CONTROL SHEET 1 OF 2

DETACHED SCHEMATIC WIRING DIAGRAM FOR 35AL, 35AM, 35BA, 35BA-X3, 35BB, 35BB-X3, 35J, 35J-X3, 35L, 35L-X3

TELETYPEWRITER SETS (ASR)

WD NUMBER 6000WD

DRAWN D.W.J. CHKD. ENG'D. G.E.W. APP'D. G.A.L.

TELETYPE CORPORATION

6000 WD

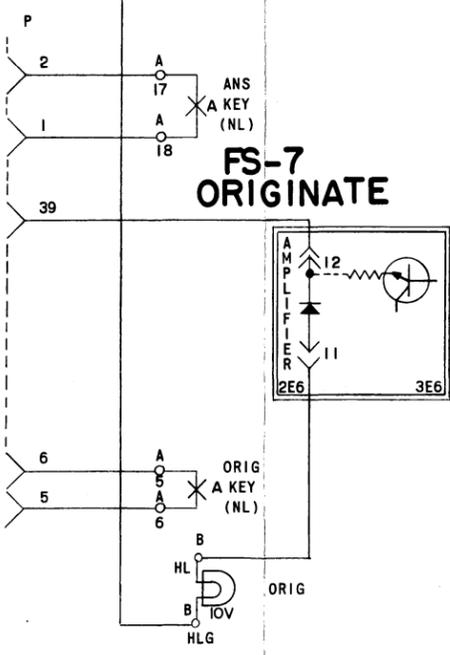
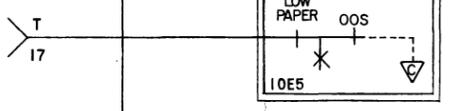
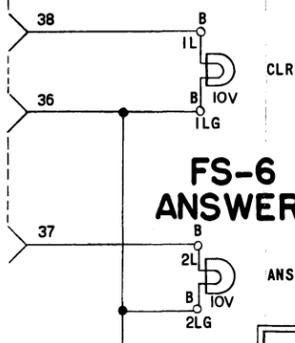
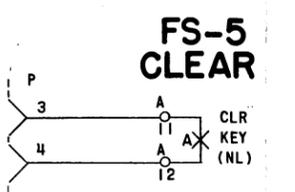
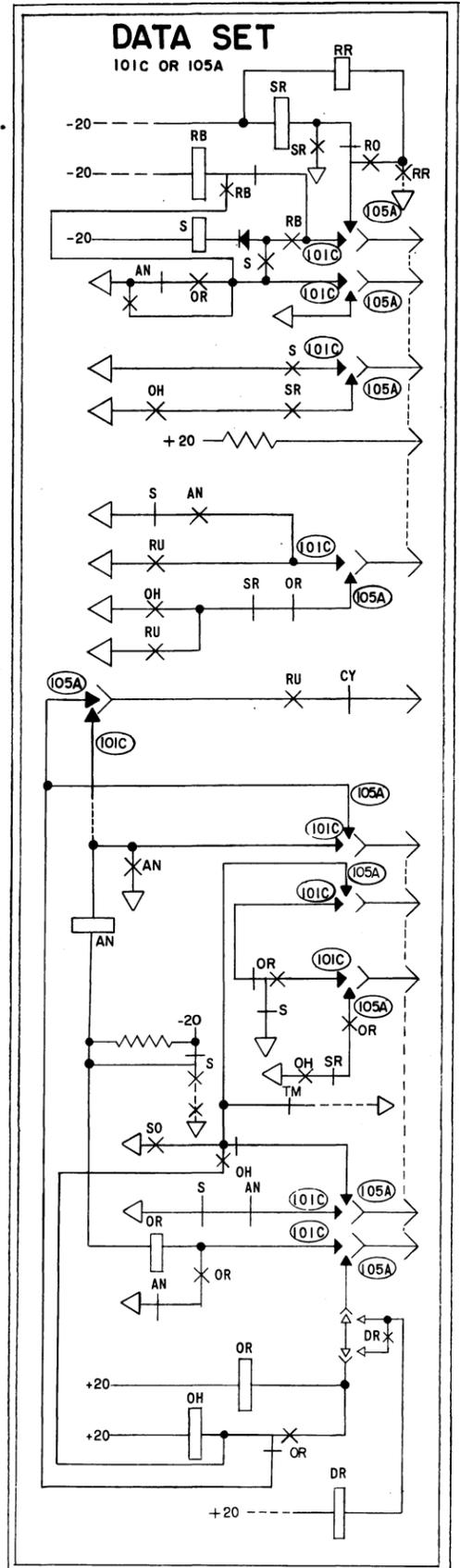
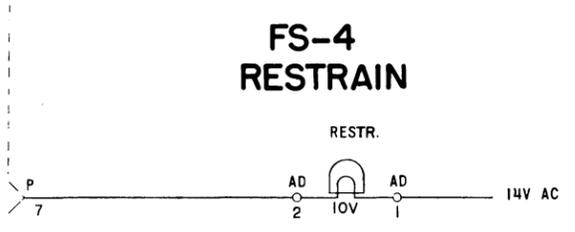
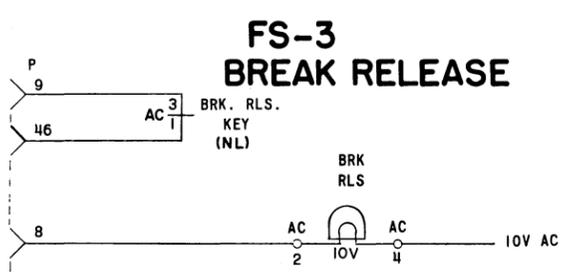
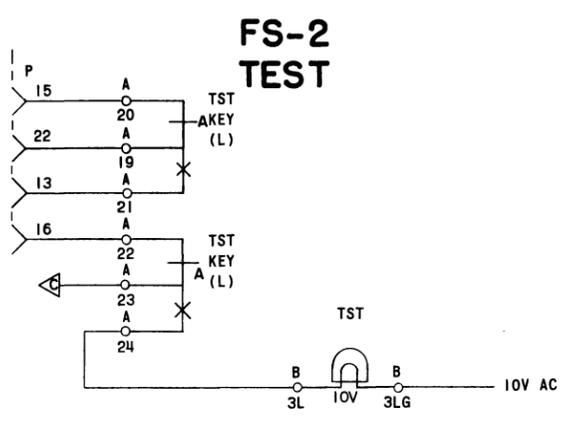
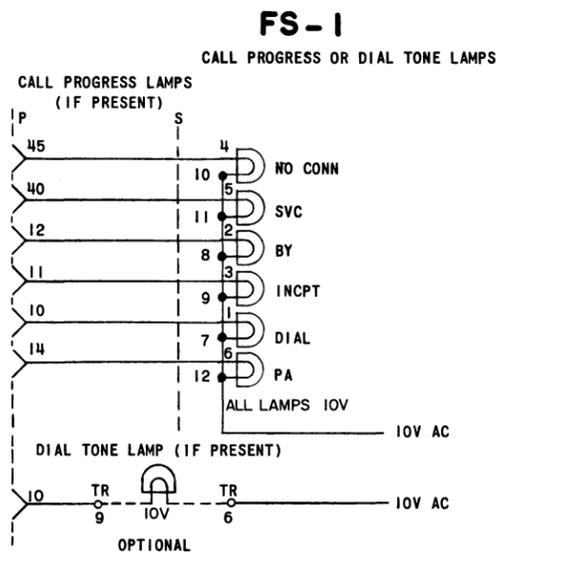
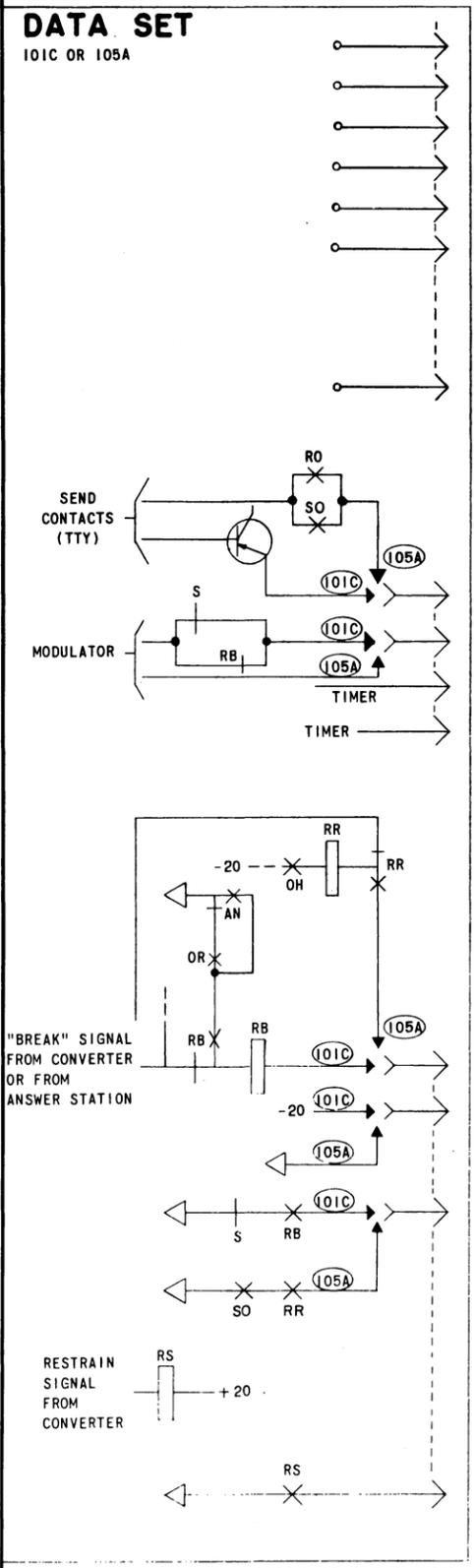


INDICATES COMMON RETURN TO THE POWER SUPPLY - NOT RELATED TO CHASSIS POTENTIAL.

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

# 6000WD-BI

REVISIONS		
ISSUE	DATE	AUTH. NO.
2	12-13-62	75364
3	10-16-64	84122
4	12-10-64	83562
5	12-21-64	84609
6	6-21-65	87583



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

DETACHED SCHEMATIC WIRING DIAGRAM FOR TELETYPEWRITER SETS (ASR)

SHEET B1

APPROVALS

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

E-NUMBER

PROD. NO. 6000WD-BI

DATE 8-20-62

P.D. FILE NO. G-A151AA

DRAWN J.A.P. CHKD. *[Signature]*

ENGD. R.D.S. APPD. *[Signature]*

TELETYPE CORPORATION

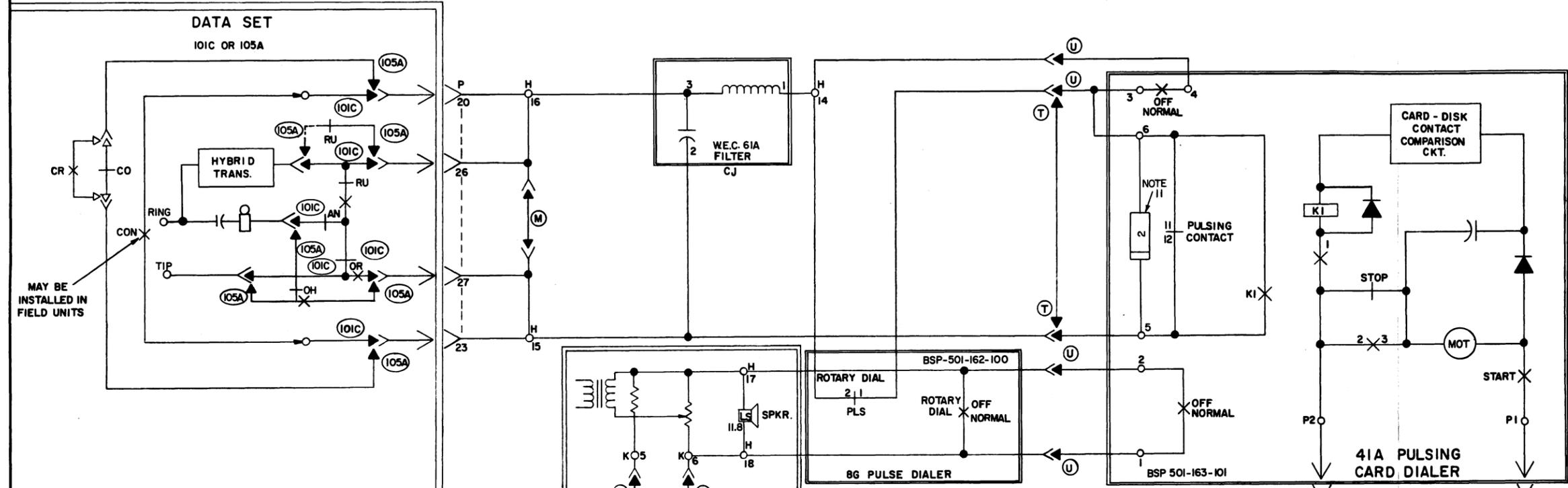
# 6000WD-BI

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

REVISIONS		
ISSUE	DATE	AUTH. NO.
2	11-12-62	75072
3	12-13-62	75364
4	8-31-64	83141
5	10-16-64	84122
6	12-21-64	84609
7	3-15-65	86287
8	6-21-65	87583
9	12-13-68	96463
10	5-7-70	8

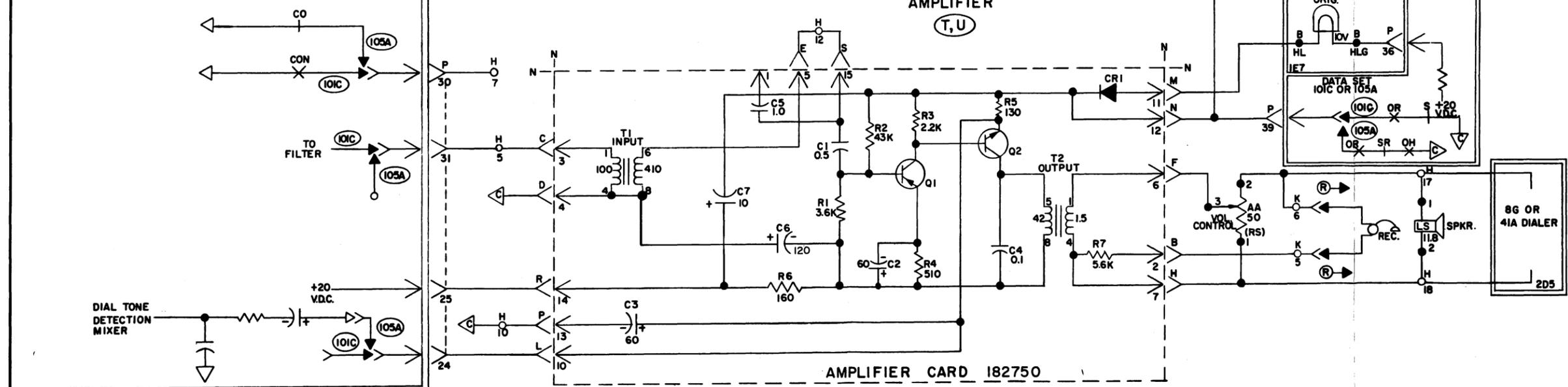
**FS-8**  
ROTARY DIAL & PULSING CARD DIALER

(T,U)



**FS-9**  
AMPLIFIER

(T,U)



AMPLIFIER CARD 182750

INDICATES COMMON RETURN TO THE POWER SUPPLY-  
NOT RELATED TO CHASSIS POTENTIAL.

DENOTES ARC SUPPRESSION NETWORK  
ASSEMBLY 334167

SEE ISSUE CONTROL RECORD FOR COM-  
PLETE LIST OF SHEETS COMPRISING THIS  
W.D.

DETACHED SCHEMATIC  
WIRING DIAGRAM FOR  
TELETYPE SETS  
(ASR)

SHEET B2

APPROVALS

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

E-NUMBER

PROD. NO. 6000WD - B2

DATE 8-20-62

P.D. FILE NO. G-A151AA

DRAWN J.A.P. CHKD. [Signature]

ENG. R.D.S. APPD. [Signature]

TELETYPE  
CORPORATION

6000WD - B2

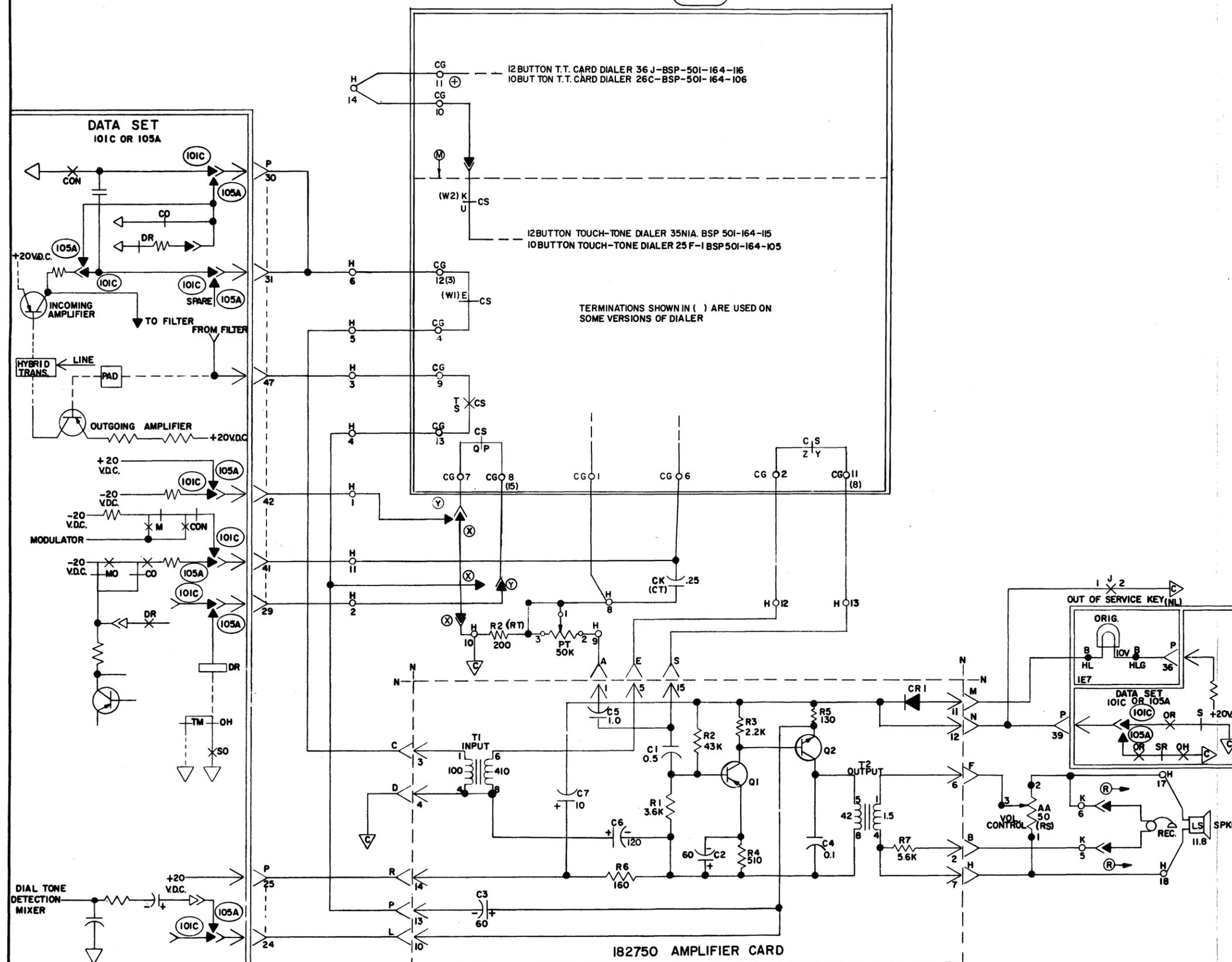
NOTE:  
REVISION INFORMATION MUST ALSO BE  
REFLECTED ON THE ISSUE CONTROL REC-  
ORD, WHICH IS A PART OF THIS DRAWING.

# 6000WD-B3

## REVISIONS

ISSUE	DATE	AUTH. NO.
2	12-13-62	75364
3	12-9-63	79390
4	10-16-64	84122
5	12-21-64	84609
6	3-15-65	86287
7	6-21-65	87583
8	10-18-65	88321
9	5-19-69	99164
10	5-7-70	8

### FS-10 TOUCH-TONE DIALER & AMPLIFIER CIRCUIT (M,X,Y)



INDICATES COMMON RETURN TO THE POWER SUPPLY-  
NOT RELATED TO CHASSIS POTENTIAL.

SEE ISSUE CONTROL RECORD FOR COM-  
PLETE LIST OF SHEETS COMPRISING THIS  
W.D.

DETACHED SCHEMATIC  
WIRING DIAGRAM FOR  
TELETYPEWRITER SETS  
(A S R)

SHEET B3

#### APPROVALS

D AND R  
0. A. J.

E OF M  
L. I.

E-NUMBER

PROD. NO. 6000WD-B3

DATE 8-20-62

P.D. FILE NO. G-A151AA

DRAWN J.A.P.

CHKD. [Signature]

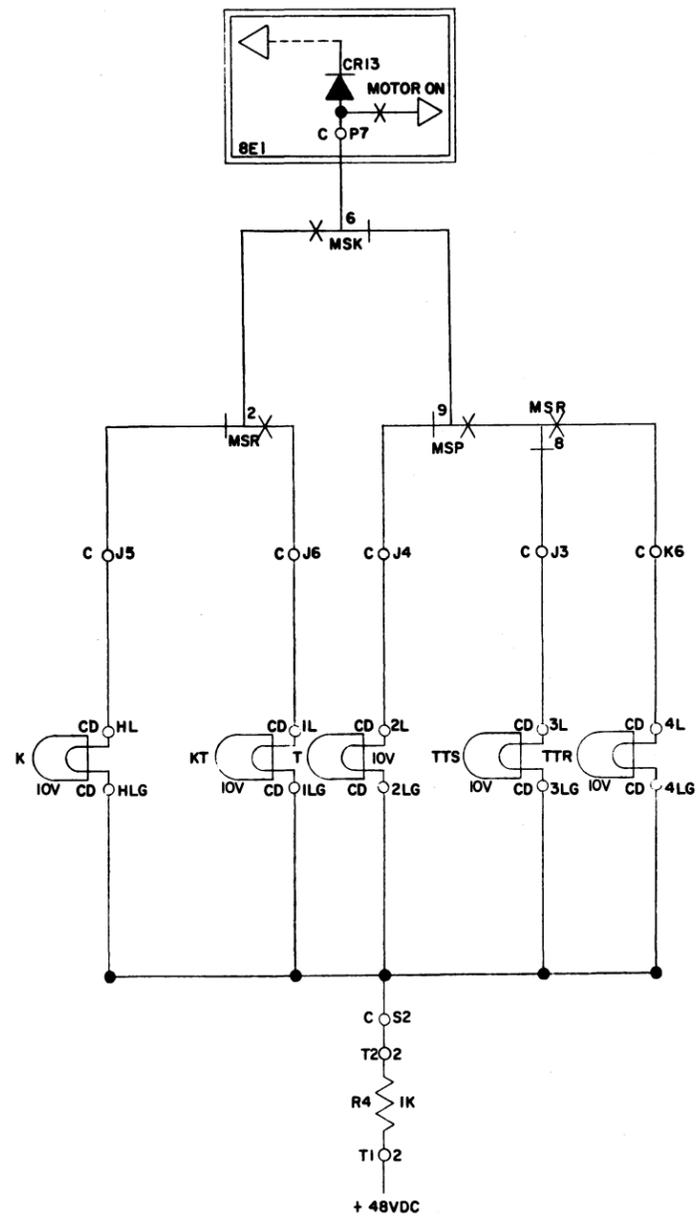
ENGD. R.S.D.

APPD. [Signature]

TELETYPE  
CORPORATION

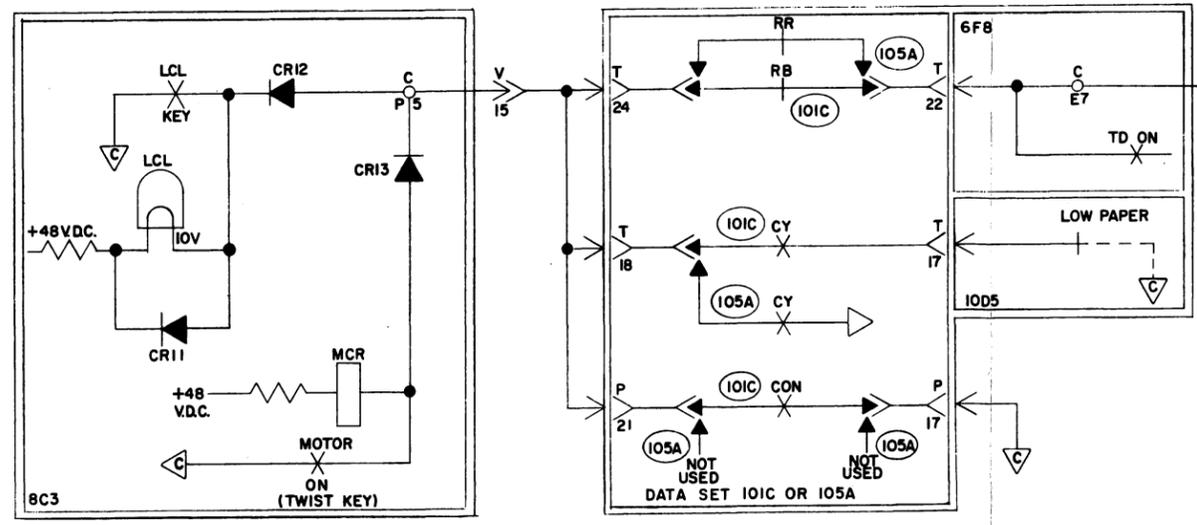
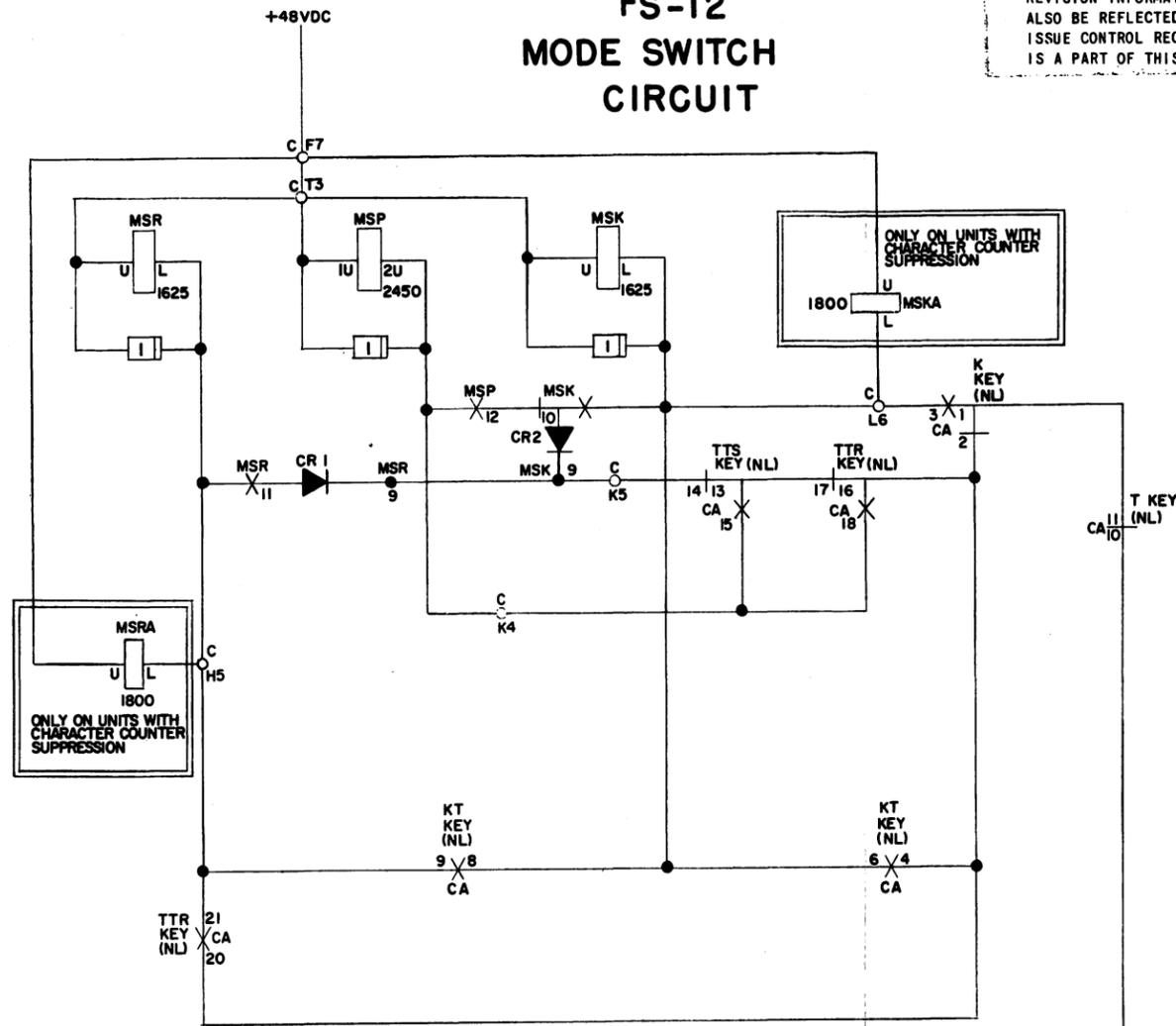
# 6000WD-B3

# FS-11 MODE SWITCH LAMP CIRCUIT



DENOTES ARC SUPPRESSION NETWORK 153631  
 INDICATES COMMON RETURN TO THE POWER SUPPLY - NOT RELATED TO CHASSIS POTENTIAL.

# FS-12 MODE SWITCH CIRCUIT



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

6000WD-B4

REVISIONS		
ISSUE	DATE	AUTH. NO.
2	11-12-62	75072
3	12-13-62	75364
4	10-16-64	84122
5	12-18-64	84609
6	6-21-65	87583

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

DETACHED SCHEMATIC  
WIRING DIAGRAM FOR  
TELETYPEWRITER SETS  
(A S P)

SHEET B4  
APPROVALS

D AND R  
E OF M

E-NUMBER

PROD. NO. 6000WD-B4

DATE 8-20-62

P.D. FILE NO. G-A151AA

DRAWN J.A.P. CHKD. R.S.P.

ENGD. R.D.S. APPD.

TELETYPE  
CORPORATION

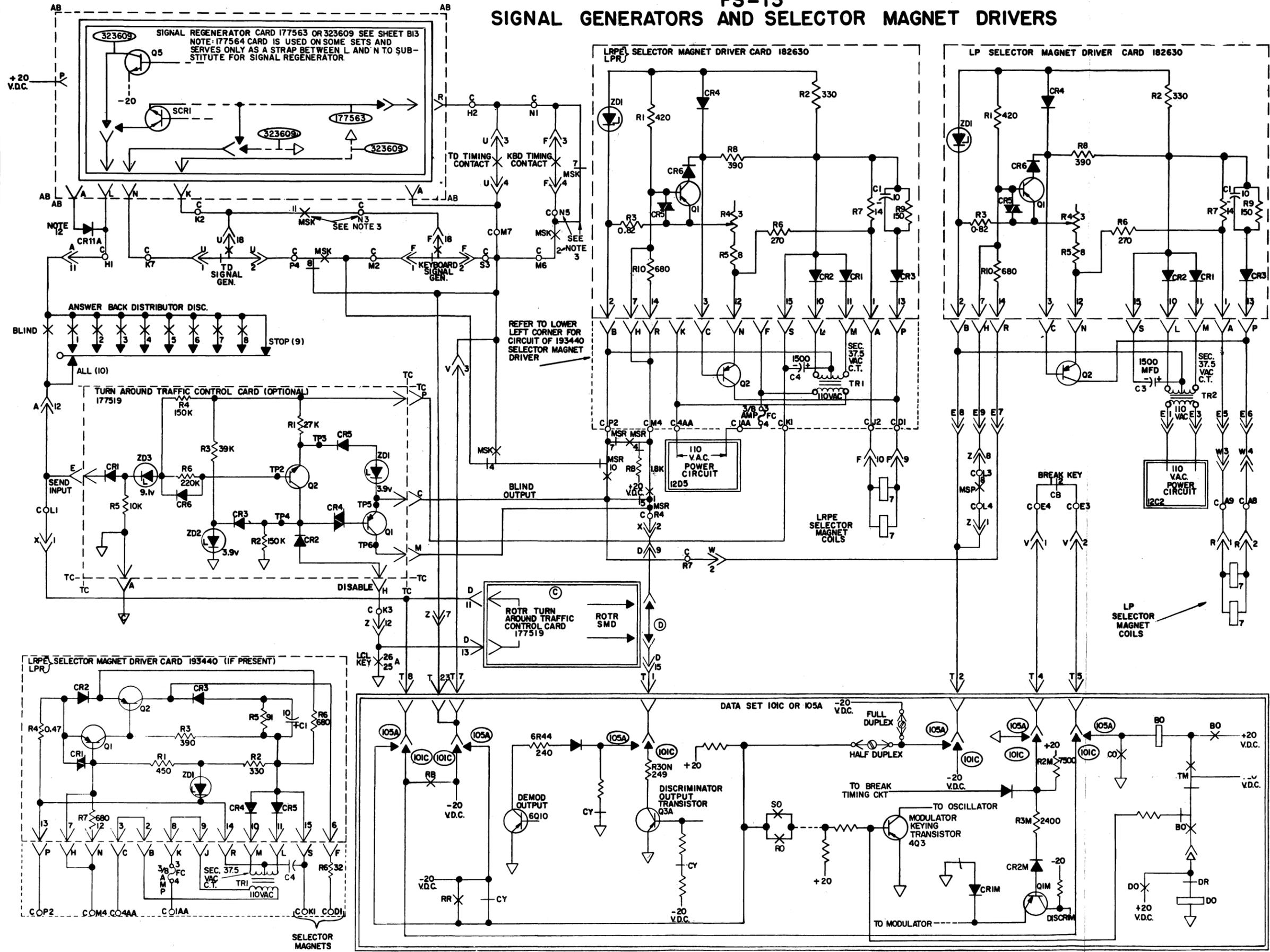
6000WD-B4

# FS-13 SIGNAL GENERATORS AND SELECTOR MAGNET DRIVERS

**6000WD-B5**

**REVISIONS**

ISSUE	DATE	AUTH. NO.
2	11-12-62	75072
3	12-13-62	75364
4	1-21-63	75588
5	8-9-63	77101
6	8-10-63	75085-1
7	4-9-64	81585
8	4-22-64	81585-1
9	8-1-64	83153
10	10-16-64	84122
11	12-21-64	84609
12	12-23-64	83811
13	5-10-65	86507-1
14	6-21-65	87583
15	7-28-65	88284
16	6-10-66	90658
17	10-27-66	91933-1
18	3-30-67	93019
19	5-8-68	95523-4
20	1-2-69	99875



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.

DETACHED SCHEMATIC WIRING DIAGRAM FOR TELETYPEWRITER SETS (ASR)

SHEET B5

**APPROVALS**

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

E-NUMBER

PROD. NO. 6000WD-B5

DATE 8-20-62

P.D. FILE NO. G-A151AA

DRAWN J.A.P. CHKD. *[Signature]*

ENG. R.D.S. APPD. *[Signature]*

**TELETYPE CORPORATION**

**6000WD-B5**

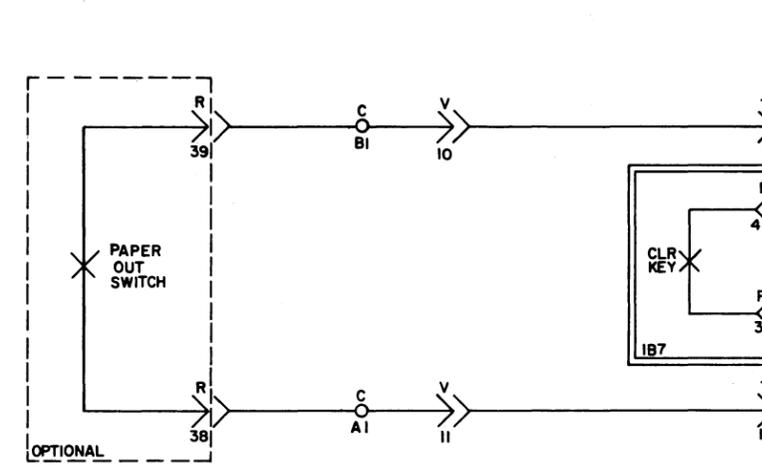


NOTE:  
REVISION INFORMATION MUST ALSO BE  
REFLECTED ON THE ISSUE CONTROL REC-  
ORD, WHICH IS A PART OF THIS DRAWING.

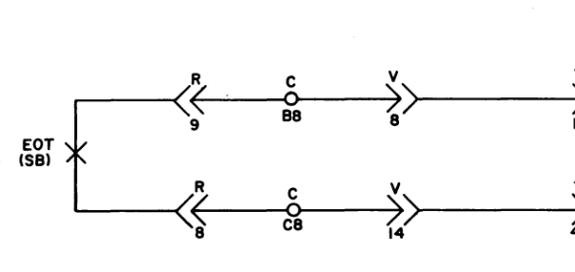
# 6000WD-B7

REVISIONS		
ISSUE	DATE	AUTH. NO.
2	12-13-62	75364
3	10-16-64	84122
4	12-21-64	84609
5	8-10-64	81109-1
6	6-21-65	87583
7	5-7-68	95810

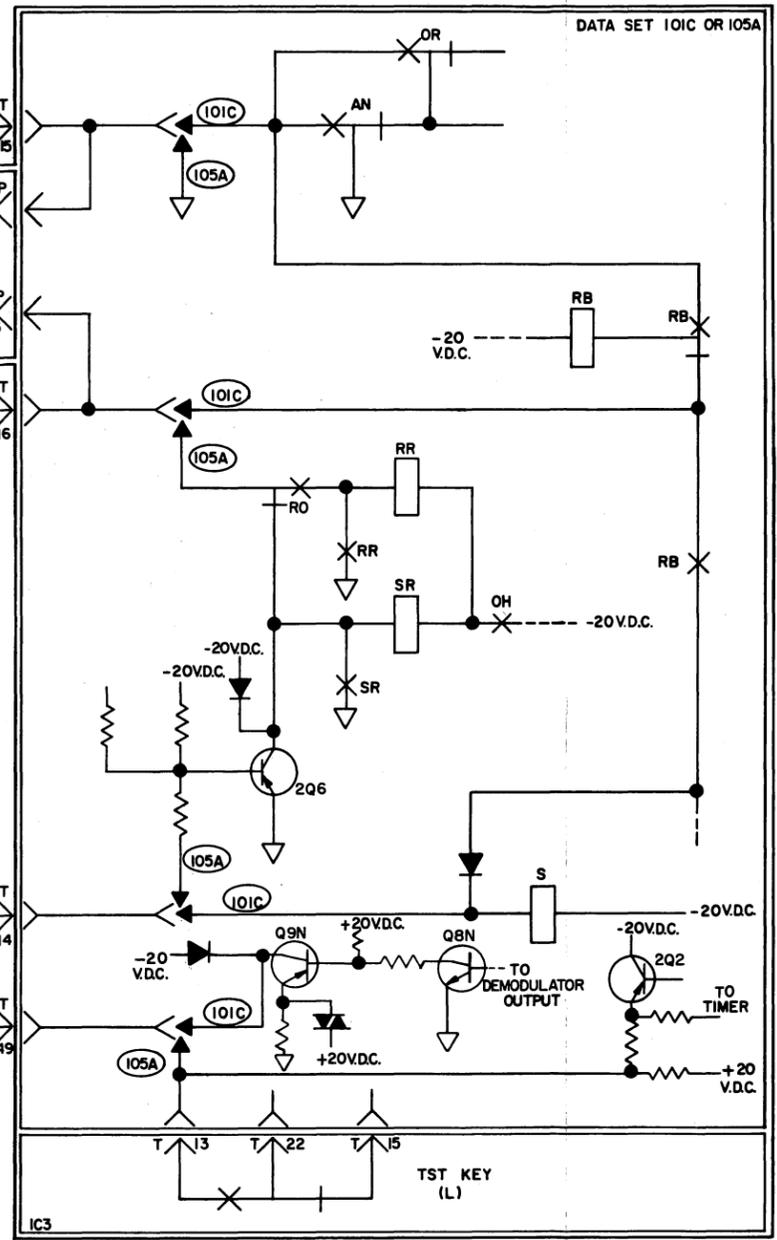
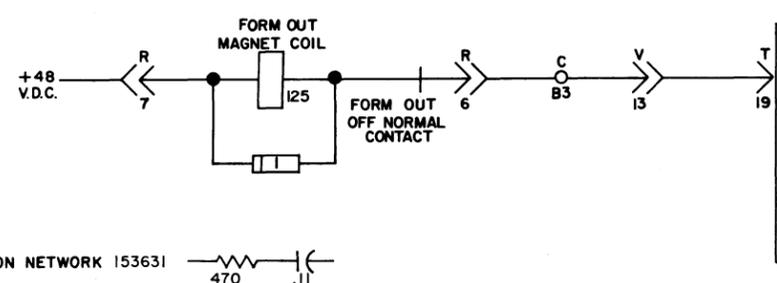
FS-15  
PAPER OUT DISCONNECT



FS-17  
EOT DISCONNECT



FS-16  
FORM-OUT MAGNET COIL



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

DETACHED SCHEMATIC WIRING DIAGRAM FOR TELETYPEWRITER SETS (A S R)

SHEET B7

**APPROVALS**

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

PROD. NO. 6000WD-B7

DATE 8-20-62

P.D. FILE NO. G-A151AA

DRAWN J.A.P.	CHKD. <i>[Signature]</i>
ENGD. A.B.	APPD. <i>[Signature]</i>

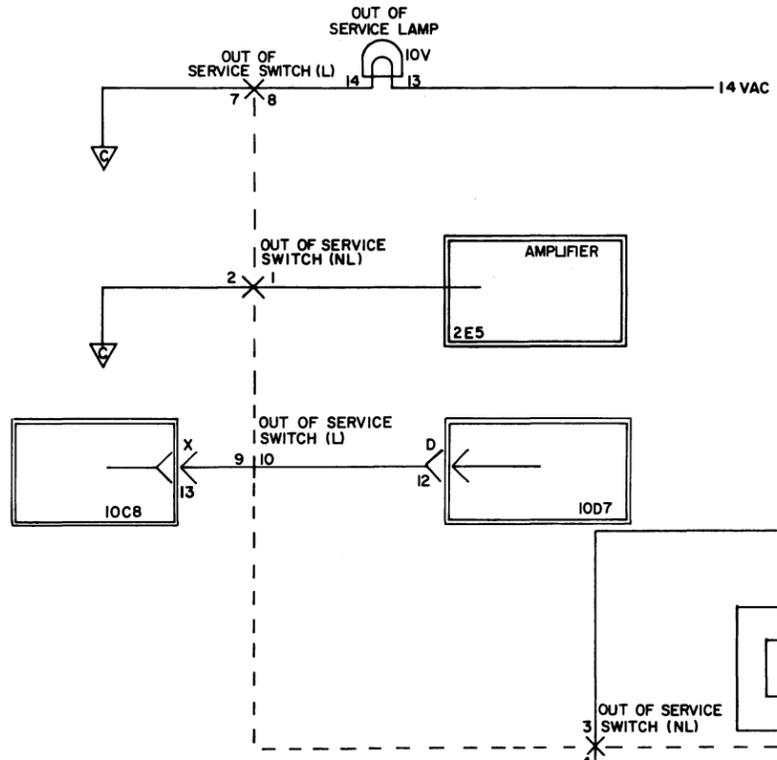
**TELETYPE CORPORATION**



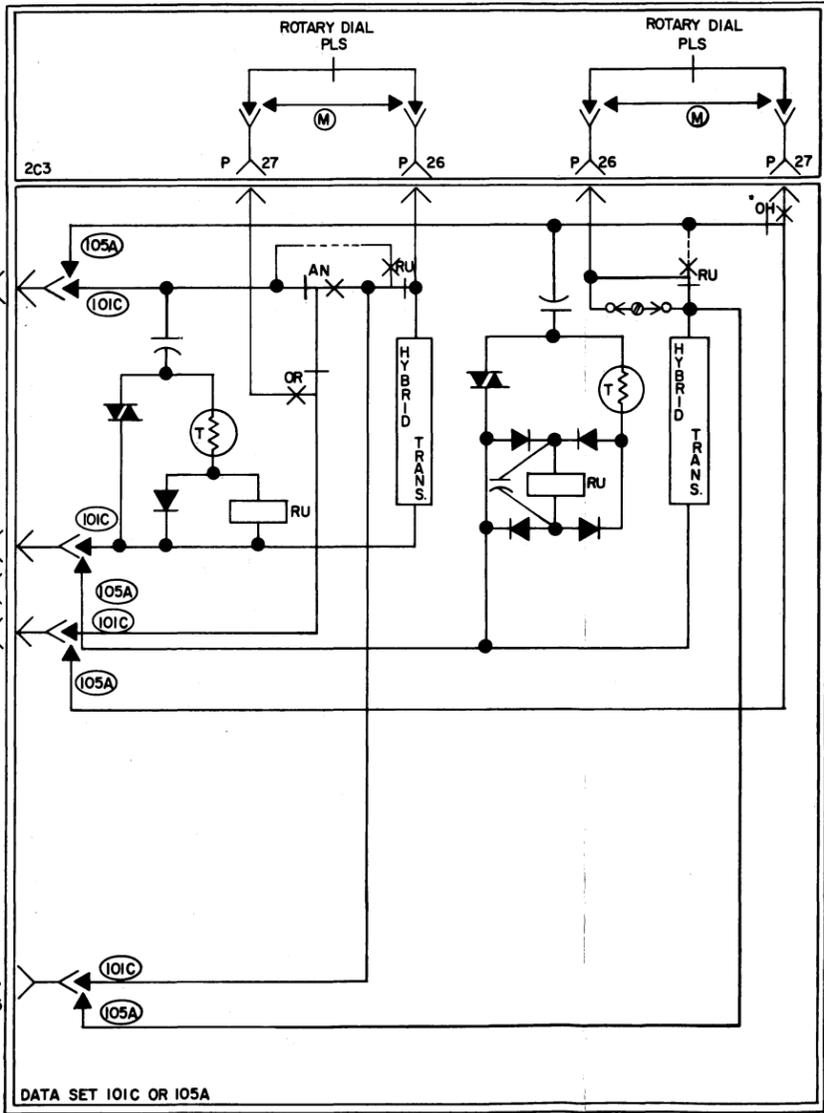
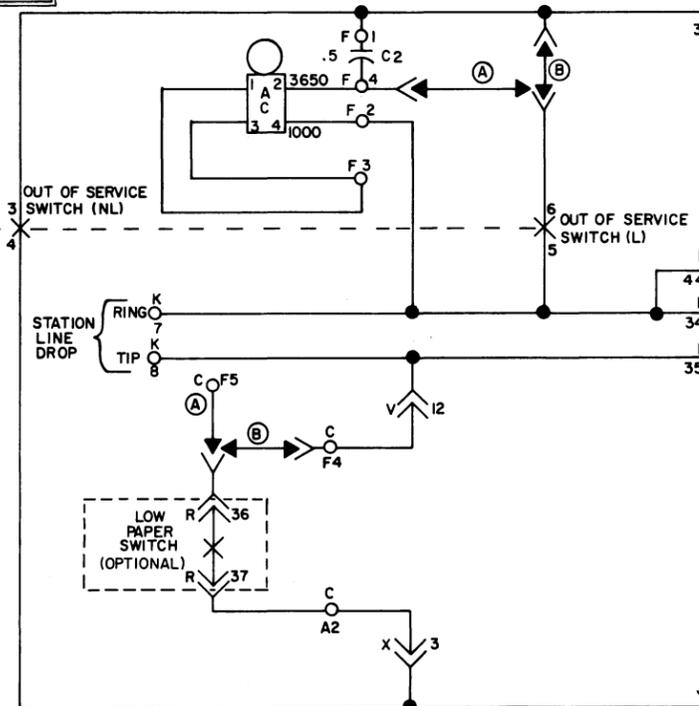
NOTE:  
REVISION INFORMATION MUST  
ALSO BE REFLECTED ON THE  
ISSUE CONTROL RECORD, WHICH  
IS A PART OF THIS DRAWING.

REVISIONS		
ISSUE	DATE	AUTH. NO.
2	12-13-62	75364
3	8-10-64	81109-1
4	10-30-64	81109-2
5	3-15-65	86287
6	6-21-65	87583

FS-20  
OUT OF SERVICE



FS-21  
RINGER CIRCUIT  
& OFF HOOK CIRCUIT



OUT OF SERVICE IS A THREE POSITION TWIST UNIT.  
NORMAL - AS SHOWN  
LOCKING - CCW TWIST FROM NORMAL  
NON-LOCKING - CW TWIST FROM NORMAL.

INDICATES COMMON RETURN TO THE POWER SUPPLY-  
NOT RELATED TO CHASSIS POTENTIAL.

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

DETACHED SCHEMATIC  
WIRING DIAGRAM FOR  
TELETYPEWRITER SETS  
(ASR)

SHEET B9

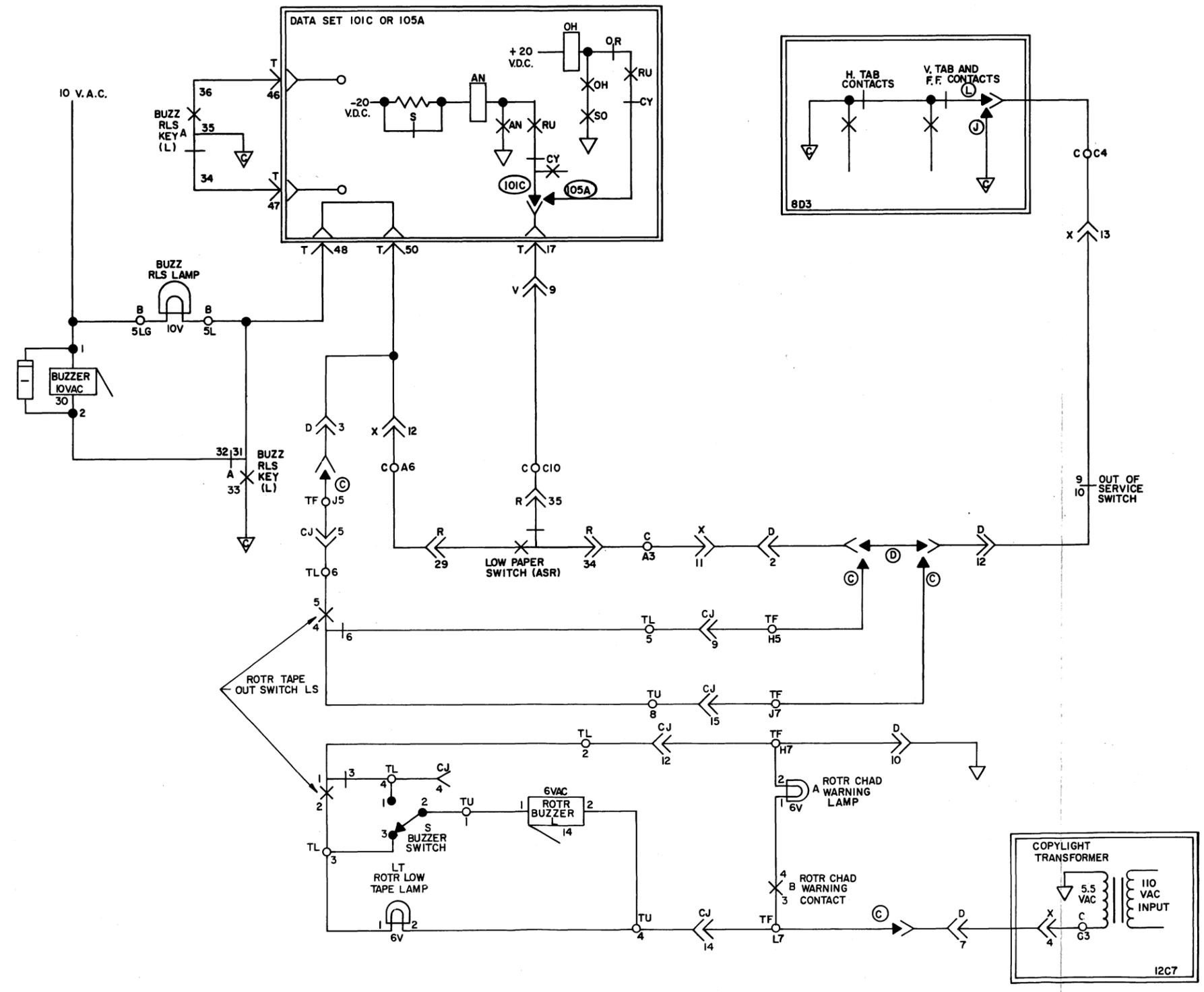
APPROVALS	
D AND R <i>D.A.L.</i>	E OF M <i>[Signature]</i>
E-NUMBER	
PROD. NO. 6000WD-B9	
DATE 8-20-62	
P.D. FILE NO. G-A151AA	
DRAWN J.A.P.	CHKD. <i>[Signature]</i>
ENGD. A.B. R.D.S.	APPD. <i>[Signature]</i>
<b>TELETYPE CORPORATION</b>	

# FS-22 PAPER ALARM

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

## 6000WD-B10

REVISIONS		
ISSUE	DATE	AUTH. NO.
6	7-31-63	76470-1
7	9-26-63	76470-2
8	10-16-64	84122
9	12-21-64	84609
10	3-15-65	86287
11	6-21-65	87583



ROTR TAPE OUT SWITCH CONTACTS ARE SHOWN WITH FULL TAPE ROLL.

DENOTES ARC SUPPRESSION NETWORK 153631
 470 .11

INDICATES COMMON RETURN TO THE POWER SUPPLY - NOT RELATED TO CHASSIS POTENTIAL.

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

DETACHED SCHEMATIC WIRING DIAGRAM FOR TELETYPEWRITER SETS (ASR)

SHEET B10

**APPROVALS**

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

E-NUMBER

PROD. NO. 6000WD-B10

DATE 8-20-62

P.D. FILE NO. G-A151AA

DRAWN J.A.P.	CHKD. <i>[Signature]</i>
ENGD. A.B. R.D.S.	APPD. <i>[Signature]</i>

**TELETYPE CORPORATION**

## 6000WD-B10



SEE ISSUE CONTROL SHEET FOR NOTES.

# FS-24 POWER AND CABINET CIRCUITS

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

6000WD-B12

### REVISIONS

ISSUE	DATE	AUTH. NO.
2	11-12-62	75072
3	12-13-62	75364
4	3-1-63	75461
5	3-5-63	75882
6	3-10-64	81103
7	6-18-64	82025
8	10-16-64	84122
9	11-16-64	84334
10	12-21-64	84609
11	1-5-65	85704
12	2-2-65	85509
13	2-15-65	84599-1
14	6-21-65	87583
15	8-6-65	88293
16	8-22-67	94324-B

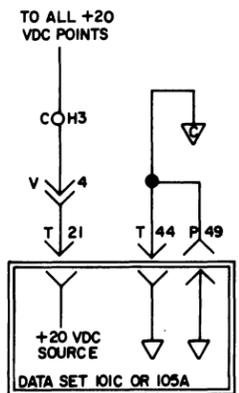
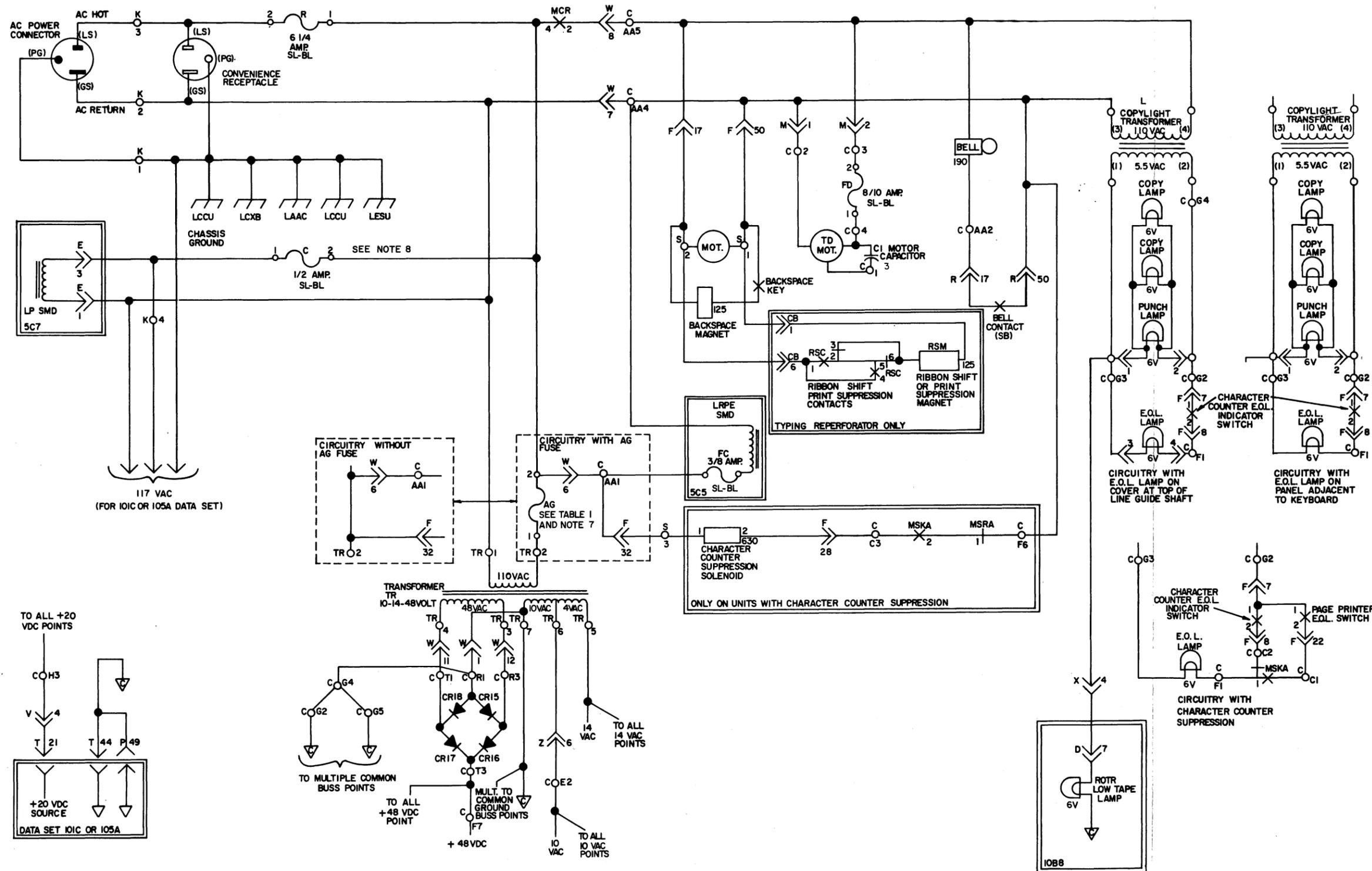


TABLE I

TRANSFORMER	FUSE AG	PART NO.
181879	1/2 AMP. SL-BL	117176
182657	8/10 AMP. SL-BL	162360

↓ INDICATES COMMON RETURN TO THE POWER SUPPLY- NOT RELATED TO CHASSIS POTENTIAL.

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

DETACHED SCHEMATIC WIRING DIAGRAM FOR TELETYPEWRITER SETS (A S R)

SHEET B12

### APPROVALS

D AND R <i>o.a.l.</i>	E OF M <i>u</i>
--------------------------	--------------------

E-NUMBER	
PROD. NO.	6000WD-B12
DATE	8-20-62
P.D. FILE NO.	G-A151AA
DRAWN J.A.P.	CHKD. <i>o.a.l.</i>
ENGD. R.D.S.	APPD. <i>o.a.l.</i>

TELETYPE CORPORATION

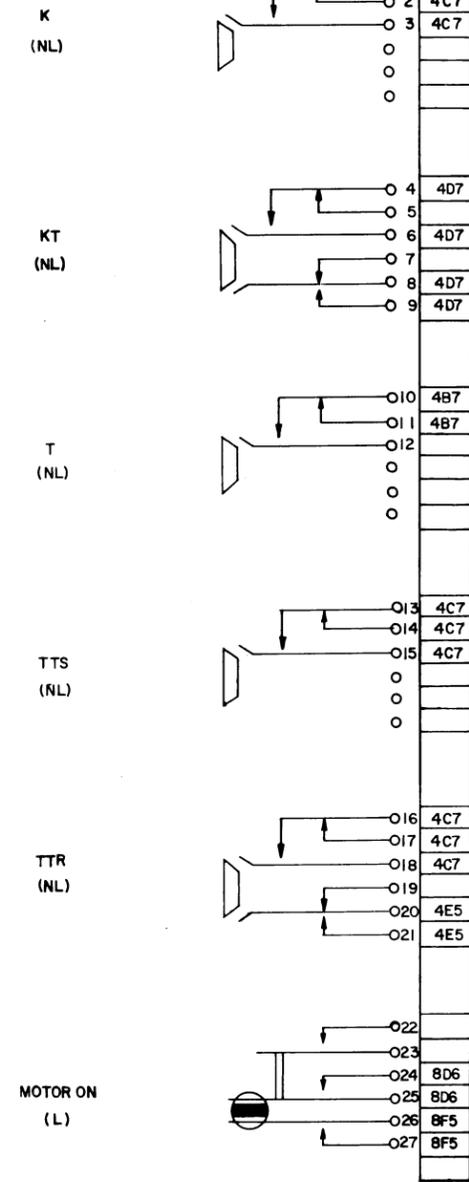
6000WD-B12

TERMINAL BOARD

DESIG	C
PART NO	193422
TERM	LOC
AA1	12D5
AA2	12C7
AA3	
AA4	a
AA5	12B5
A1	7B6
A2	9F5
A3	10D6
A4	6E7
A5	6E8
A6	10D4
A7	6C5
A8	5D8
A9	5D8
A10	11D3
B1	7A6
B2	6E7
B3	7E3
B4	SPARE
B5	6E7
B6	6E5
B7	6E3
B8	7D7
B9	6E7
B10	6D4
C1	
C2	
C3	
C4	10C8
C5	
C6	
C7	
C8	7D5
C9	
C10	10D5
D1	5D6
D2	
D3	SPARE
D4	SPARE
D5	6E6
D6	6E6
D7	6E6
D8	6B6
D9	
D10	
E1	6E4
E2	12F5
E3	5D7
E4	5D7
E5	
E6	
E7	6E7
F1	12E8
F2	11A5
F3	
F4	9E4
F5	9E4
F6	
F7	12F4
G1	6E5
G2	12E3
G3	12D7
G4	12E3
G5	12E3

TERM.	LOC.
H1	5C1
H2	5A4
H3	12E1
H4	6B7
H5	4D5
H6	6B6
J2	5D6
J3	4C3
J4	4C2
J5	4C1
J6	4C2
J7	
K1	5D6
K2	5B2
K3	5E3
K4	4D6
K5	4C7
K6	4C3
K7	5C1
L1	5D1
L2	6D5
L3	5D6
L4	5D6
L5	8D1
L6	4C7
L7	
M1	6A1
M2	5C3
M3	8D4
M4	5C5
M5	11E2
M6	5C4
M7	5B4
N1	5A4
N2	6C3
N3	5B4
N4	6D1
N5	5B3
N6	6B3
N7	8D2
P1	6B1
P2	5C4
P3	8C5
P4	5C2
P5	8C3
P6	6D1
P7	8C5
R1	12E4
R2	11D2
R3	12E4
R4	5D5
R5	6B4
R6	6B3
R7	5E5
S1	6E5
S2	4D1
S3	5C4
S4	6E1
S5	6E4
S6	8C8
S7	6E5
T1	12E3
T2	6E3
T3	12F4
T4	6D2
T5	6E6
T6	6B4
T7	6D4
a	12B5

MODE SWITCH  
PART NO. 182583  
DESIGNATION CA

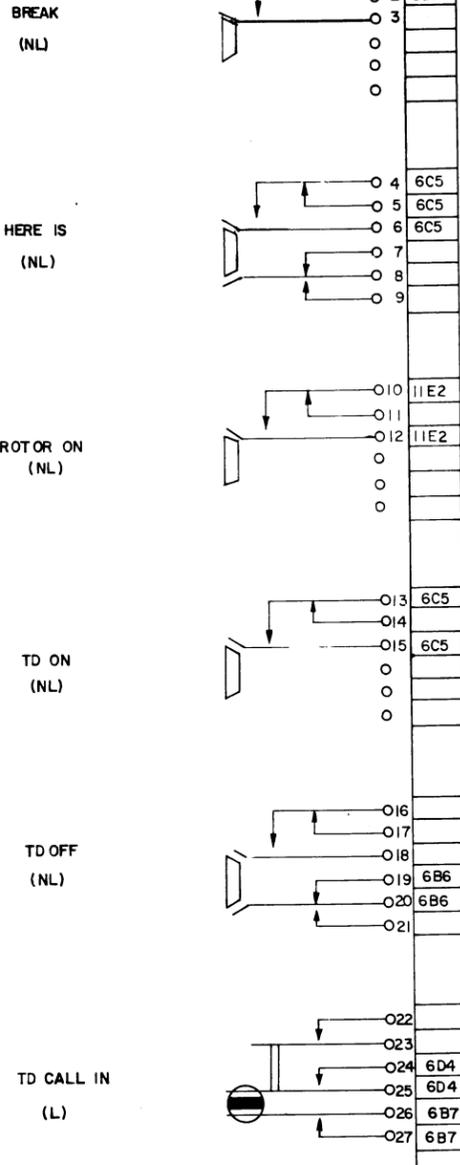


RELAY

DESIG	MSR	MSK	MSP	TDC	NCT
PART #	179173	179173	171503	171503	145022
CODE	AJ79	AJ79	AK8	AK8	AG-22
	CONT ARR	LOC.	CONT ARR	LOC.	CONT ARR
12			M	4C6	B
11	M	4C5	M	5B4	M
10	EBM	5D4	EBM	4C6	EBM
9		4C6		4C6	EBM
8	EMB	4C3	EMB	5B2	EM
7	B	5C4	B		
6	EBM	6E5	EBM	4B2	BM
5	B	5D5	B	6D6	
4	PMB	5C5	PMB	5D4	
3					EM
2	PBEM	4C1	PBEM	5B3	EBM
1	M	5D5	M	6C3	M
COIL		4B4		4B6	4B5
					6A6
					6A3

(PART OF)  
APPARATUS FIGURE I

MODE SWITCH  
PART NO. 182583  
DESIGNATION CB



PRINTED CIRCUIT CARDS

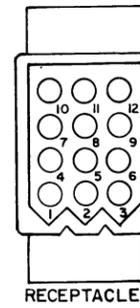
DESIG.	PART NO.	LOC.
SIGNAL REGENERATOR	177563 OR 4	5A2
LRPE SELECTOR MAGNET DRIVER	193440 OR 182630	5B5
LP SELECTOR MAGNET DRIVER	182630	5B7

TERMINAL STRIP

DESIG.	T1	T2	T3
PART NO.	114654	114654	114654
TERM.	LOC.	LOC.	LOC.
1	6A1	8C8	a
2	a	4D1	8C1
	4E1		8C9

CONNECTOR

DESIG.	COPYRIGHT	COPYRIGHT
PART NO.	100657 (CHASSIS)	199322 (CHASSIS)
TERM.	LOC.	LOC.
1	12C8	12D8
2	12C8	12D8
3		12E8
4		12E8



RECEPTACLE

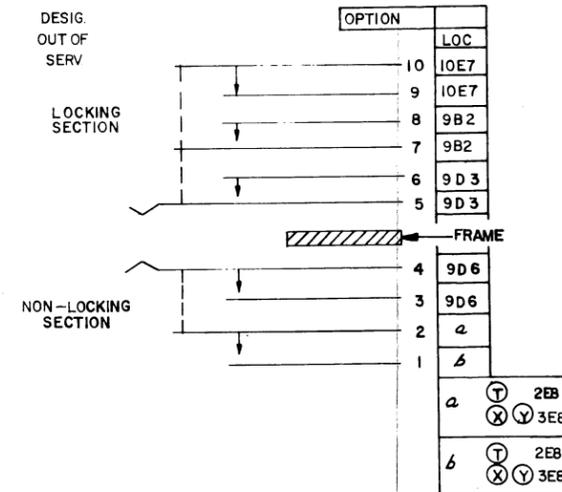
PART NO.	182648	182647
MTG.	CHASSIS	CABLE

TERMINAL NUMBERING AS VIEWED FROM TERMINAL END.

TERMINALS ARE INDIVIDUALLY INSERTED AND MAY BE EITHER MALE OR FEMALE.

INSERT	PART NO.
MALE	182643
FEMALE	182644

KEY  
PART NO. 182688



CONNECTOR

DESIG.	A
PART NO.	182647
	182648
TERM.	LOC.
1	8D5
2	8D5
3	6C3
4	6C3
5	
6	6B4
7	6B4
8	
9	
10	6A4
11	5C1
12	5C1

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

6000WD-CI

REVISIONS

ISSUE	DATE	AUTH. NO.
3	12-13-62	75364
4	1-21-63	75588
5	12-21-64	84609
6	2-2-65	85509

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

APPARATUS FIGURE FOR TELETYPEWRITER SETS (ASR)

APPROVALS

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

E-NUMBER

PROD. NO. 6000WD-C1

DATE 10-4-62

P.D. FILE NO. G-A151AA

DRAWN G.H.L.	CHKD J.M.
ENGD. W.E.C.	APPD J.M.

TELETYPE CORPORATION

6000WD-CI

(PART OF)  
APPARATUS FIGURE I.

6000WD-C2

REVISIONS

ISSUE	DATE	AUTH. NO.
3	12-13-62	75364
4	1-21-63	75588
5	4-21-64	75390-1
6	12-21-64	84609
7	2-2-65	85509
8	6-10-66	90658
9	5-8-68	95523-4
10	5-16-69	99164

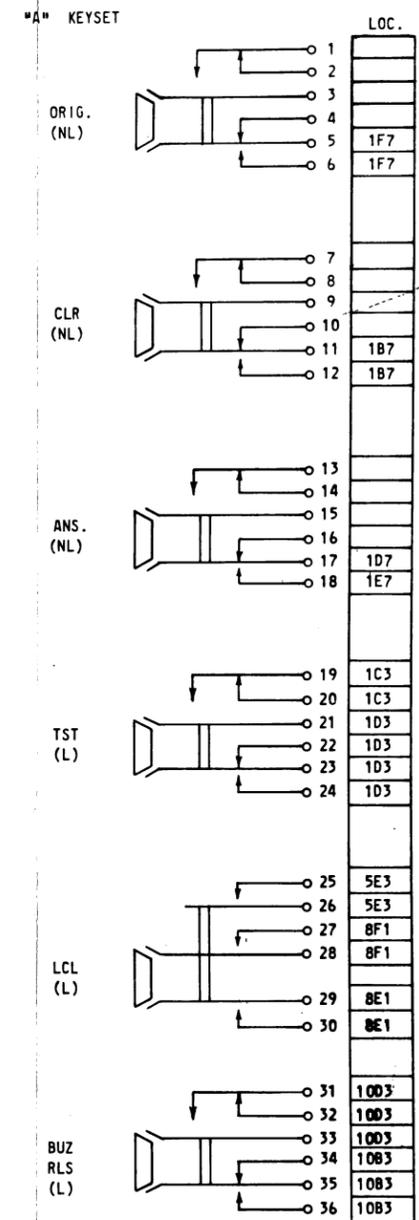
NOTE:  
REVISION INFORMATION MUST  
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ISSUE CONTROL RECORD, WHICH  
IS A PART OF THIS DRAWING.

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

APPARATUS FIGURE FOR  
TELETYPEWRITER SETS  
(A S R)

APPROVALS	
D AND R	E OF M
<i>[Signature]</i>	<i>[Signature]</i>
E-NUMBER	
PROD. NO. 6000WD-C2	
DATE 10-4-62	
P.D. FILE NO. G-A151AA	
DRAWN G.C.K.	CHKD <i>[Signature]</i>
ENGD. W.E.C.	APPR. <i>[Signature]</i>
TELETYPE CORPORATION	

6000WD-C2



TERMINAL BOARD

DESIG.	H	H
PART NO.	182717	182717
TERM.	LOC.	LOC.
1	3D2	
2	3D2	
3	3C2	
4	3F2	
5	3E2	2E3
6	3C2	
7		
8	3E4	
9	3E4	
10	3E3	2F3
11	3D2	
12	3E5	2E5
13	3E5	
14	3B2	2C5
15		2C3
16		2C3
17	3F8	2F7
18	3F8	2F7

TERMINAL BOARD

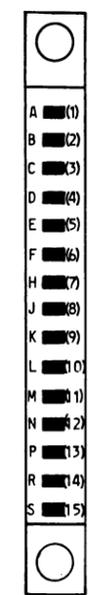
DESIG.	K
PART NO.	151411
TERM.	LOC.
1	12B1
2	12B2
3	12B2
4	12C3
5	a
6	b
7	9E5
8	9E5
9	

Ⓢ 2F7  
a ⓧ Ⓢ 3F7  
Ⓢ 2F7  
b ⓧ Ⓢ 3F7

CONNECTOR

DESIG.	V	W	X	Y	Z	D	D
PART NO.	182539	182539	182539	182539	182539	182539	182539
TERM.	LOC.						
1	5E7	12E3	5E1	6E7	5D7	11D3	
2	5E7	5E5	5D5	6E7	6E7	10D6	10D6
3	5D3	5D8	9F5	6E7	6E7	10C5	
4	12E1	5D8	12D7	6E6	6E5	11E2	
5	6E5	8D1	8C6	6E6	6E5	11C1	
6	6E4	12D5		6E6	12F5	11D2	
7	6E7	12B5	6E7	6E6	5E3	10E4	
8	7D7	12B5	11D1	6E6	5D7	8C7	
9	10C5	8C8	11D2	6E4	11A5	5E5	5E5
10	7B6	8D1	11D3	6E2	6E1	11E3	
11	7B6	12E3	10D6	6E4	6E1	5E4	
12	9E4	12E4	10D4	6E5	5E3	10D7	10D7
13	7E4	6E3	10C8		6E5	5E4	
14	7D6					11A4	
15	6E8					5E5	5E5

15 PIN RECEPTACLE



NO. 181819 SOME UNITS CONTAIN  
182536 CONNECTOR

BUZZER

DESIG.	LOC.	PART NO.
BUZZER	10C3	182718

RINGER

DESIG.	LOC.	PART NO.
RINGER	9D5	182503

SPEAKER

DESIG.	LOC.	PART NO.
SPEAKER	2F8 3F8	193478

PART NO.	182539	182540
MTG.	CHASSIS	CABLE

TERMINAL NUMBERING AS  
VIEWED FROM TERMINAL END  
TERMINALS ARE INDIVIDUALLY  
INSERTED AND MAY BE EITHER  
MALE OR FEMALE

INSERT	PART NO.
MALE	182643
FEMALE	182644

182732 CONNECTOR

DESIG.	P	T
PART NO.	182733	182732
TERM.	LOC.	LOC.
1	1D7	5E5
2	1D7	5E6
3	1B7	
4	1B7	5E7
5	1F7	5E7
6	1F7	
7	1F2	5E3
8	1E2	5E1
9	1E2	6E5
10	1B2	6E4
11	1B2	
12	1B2	
13	1D2	6E5
14	1B2	7D8
15	1C2	7A7
16	1D2	7B7
17	6F8	10C5
18		6E8
19	8F1	7E4
20	2C3	6E1
21	6E8	12E1
22	1C2	6E7
23	2C3	5E3
24	a	6E8
25	b	
26	2C3	6E2
27	2C3	6E3
28		6E7
29	3D2	6E5
30	3B2	6E4
31	c	6E5
32	8D7	6E6
33	9D6	6E5
34	9D6	6E8
35	9E6	6E3
36	1C7	6E7
37	1C7	6E7
38	1C7	6E6
39	1E7	6E6
40	1B2	6E7
41	3D2	6E6
42	3D2	6E6
43		6E1
44	9E6	12E2
45	1A2	9F6
46	1E2	10B4
47	3C2	10B4
48		10C4
49	12E2	7D8
50		10C4

182733 CONNECTOR

□ 25	50□
□ 24	49□
□ 23	48□
□ 22	47□
□ 21	46□
□ 20	45□
□ 19	44□
□ 18	43□
□ 17	42□
□ 16	41□
□ 15	40□
□ 14	39□
□ 13	38□
□ 12	37□
□ 11	36□
□ 10	35□
□ 9	34□
□ 8	33□
□ 7	32□
□ 6	31□
□ 5	30□
□ 4	29□
□ 3	28□
□ 2	27□
□ 1	26□

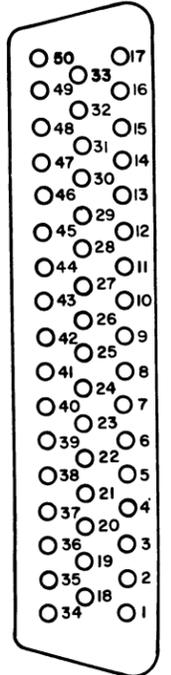
a	Ⓢ 2F3 ⓧ Ⓢ 3F2
b	Ⓢ 2F3 ⓧ Ⓢ 3F2
c	Ⓢ 2E3 ⓧ Ⓢ 3C2

CONNECTOR

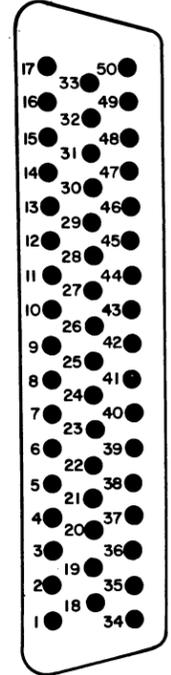
DESIG.	F	R	U
PART NO.	192013	192013	192013
TERM.	LOC.	LOC.	LOC.
1	5C3	5E8	5C2
2	5C3	5E8	5C2
3	5B4	6D3	5B4
4	5B4	8D3	5B4
5	6C3	8D4	
6	6C3	7E3	
7	12E8	7E1	6D6
8	12E8	7D6	6D6
9	5D6	7D6	6D1
10	5D6	6E5	6D2
11			6C1
12		6D5	6B1
13		8E3	
14		8E3	
15			
16			
17	12B5	12D7	
18	5B3	6D3	5B2
19		6D5	
20		6D7	
21		6D7	
22		6D7	
23		11E3	
24		11E3	6D6
25		6D7	
26		6D5	
27		6D4	
28		6C4	
29		10D5	
30			
31			
32	12D5		
33			
34		10D5	
35		10D5	
36		9F3	
37		9F3	
38		7B5	
39		7A5	
40		6C4	
41		6C5	
42		6D7	
43		6D7	
44		8F3	
45		8D4	
46			
47			
48			
49			
50	12B5	12D7	

WIRE GAGE	182732	182733
182732	182732	182733

CONNECTOR 50PIN



CONNECTOR 50PIN



15 PIN RECEPTACLE



CONNECTOR

DESIG.	TC	SMD	AB
PART NO.	193040	193040	193040
TERM.	LOC.	LOC.	LOC.
A	5E1	5C6	5B3
B		5C4	
C	5D3	5C5	
D			
E	5D1		
F		5C6	
H	5E3	5C4	
J		5C5	
K		5C5	5B2
L		5C6	5B1
M	5D3	5C6	
N		5C5	5B1
P	5D3	5C6	
R		5C5	5B3
S		5C6	

WIRE GAGE	182732	182733
182732	182732	182733

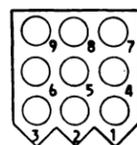
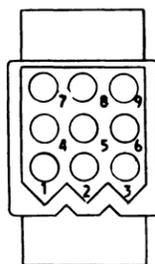
SEE ISSUE CONTROL SHEET FOR NOTES.

(PART OF)  
APPARATUS FIGURE I.

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

6000WD-C3

REVISIONS		
ISSUE	DATE	AUTH. NO.
2	12/13/62	7536
3	3-5-63	7586
4	4-9-68	75471-1
5	3-10-64	81103
6	12-21-64	84609
7	2-2-65	85509
8	2-15-65	84599-1
9	3-15-65	86287
10	8-6-65	88293
11	9-2-65	88068
12	8-22-67	94324-B
13	5-8-68	95523-4
14	12-13-68	96463
15	1-2-70	99875



DESIG.	E
PART NO.	182645
	182716
TERM.	LOC.
1	5D7
2	
3	5D7
4	
5	5D8
6	5D8
7	5C7
8	5C7
9	5C7

SIGNAL GENERATOR CONTACT BOX ASSEMBLY (KBD.)

DESIG.	
PART NO.	176352
TERM.	LOC.
1	5B3
2	5B3
3	5B3



SIGNAL GENERATOR CONTACT BOX ASSEMBLY (TD)

DESIG.	
PART NO.	192600
TERM.	LOC.
1	5C2
2	5C2
3	5C2

PART NO.	182716	182645
MTG.	CHASSIS	CABLE

TERMINAL NUMBERING AS VIEWED FROM TERMINAL END.

TERMINALS ARE INDIVIDUALLY INSERTED AND MAY BE EITHER MALE OR FEMALE.

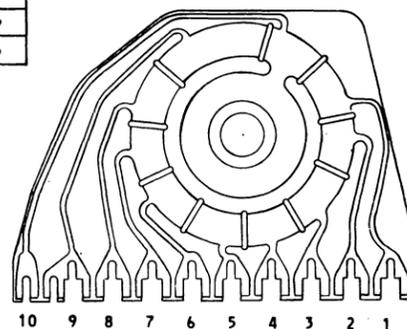
INSERT	PART NO.
MALE	182643
FEMALE	182644

CONVENIENCE RECEPTACLE

DESIG.	LOC.	PART NO.
M	12B3	178831

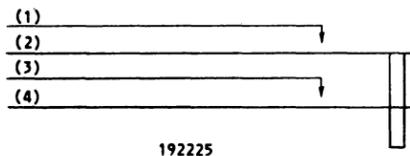
CORD

DESIG.	LOC.	PART NO.
U	12B2	182510



DISTRIBUTOR DISC

DESIG.	
PART NO.	180987
TERM.	LOC.
1	5C1
2	5C1
3	5C1
4	5C1
5	5C1
6	5C2
7	5C2
8	5C2
9	5C2
10	5C1



SWITCH

DESIG.	A. B. OFF NORMAL
PART NO.	192225
TERM.	LOC.
1	8D5
2	8D5
3	6C3
4	6C3

SWITCH

DESIG.	LOC.	PART NO.
KBD. TIMING	5B4	192A85
KBD. UNIVERSAL	6C3	178144
E.O.L. INDICATOR	12E8	158163
TD TIMING	5B4	192605
TIGHT TAPE	6D2	160639
TAPE OUT	6D6	160632
BACK SPACE	12C5	170413

MAGNET COILS

DESIG.	LOC.	PART NO.
LRPE SEL. MAG.	5D6	192570
TD CLUTCH TRIP	6B1	156541
AB CLUTCH TRIP	6B5	274M
BACK SPACE	12 C5	224M

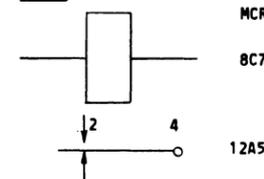
MOTOR

DESIG.	LOC.	PART NO.
LMU	12C5	151795
TD	12C6	192120

TERMINAL BOARD

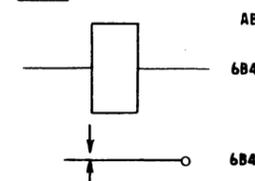
DESIG.	S	M	F
PART NO.	151415	151415	151415
TERM.	LOC.	LOC.	LOC.
1	12C6	12C6	9D6
2	12C5	12B6	9D5
3	12C6	12B6	9D5
4		12B6	9D5

RELAY



MCR  
8C7  
12A5

RELAY



ABR  
684  
684

BELL

DESIG.	LOC.	PART NO.
BELL	12C7	193451

DIODE

DESIG.	LOC.	PART NO.
CR1	4C5	171541 OR 182520
CR2	4C6	171541 OR 182520
CR6	6A1	171541 OR 182520
CR7	6B1	171541 OR 182520
CR8	6B2	171541 OR 182520
CR9	6B3	171541 OR 182520
CR10	6B3	171541 OR 182520
CR11	8C1	171541 OR 182520
CR12	8C3	171541 OR 182520
CR13	8C3	171541 OR 182520
CR14	8D4	171541 OR 182520
CR15	12F4	171541 OR 182520
CR16	12F4	171541 OR 182520
CR17	12F4	171541 OR 182520
CR18	12F4	171541 OR 182520
CR11A	13C1	197464 NOTE 12

NETWORKS

DESIG.	LOC.	PART NO.	NOTE
MSR	4C4	153631	
MSP	4C5	153631	
MSK	4C6	153631	
NCT	6A3	153631	
ABR	6B4	153631	
TDC	6A6	153631	
TD COIL	6B1	153631	
MCR	8C7	153631	
BUZZER	10C2	153631	
T TAPE	6E2	326635	6
CARD DIAL	2C6	334167	11

TRANSFORMERS

DESIG.	LOC.	PART NO.
TR1	5C6	330795
TR2	5C8	330793
COPY LIGHT	12B8	193412
TR	12E4	182657

SOME UNITS CONTAIN 182519 TRANSFORMER

SOME UNITS CONTAIN 182722 TRANSFORMER

LAMPS

DESIG.	LOC.	PART NO.
NO CON	1A3	182519
SVC	1B3	182529
BY	1B3	182529
INCPY	1B3	182529
DIAL	1B3	182529
PA	1B3	182529
TST	1D3	182529
BRK. RLS.	1E3	182659
REST	1F3	182659
CLR	1C7	182529
ANS	1C7	182529
ORIG	1F7	182529
K	4C1	182529
FT	4C2	182529
T	4C2	182529
TTS	4C3	182529
TTR	4C3	182529
TD CALL IN	6B7	182529
TS ON	6B8	182529
LCL	8D1	182529
MOTOR ON	8F6	182529
OUT OF SERVICE	9B3	182659
BUZZ RLS	10C3	182529
ROTR ON	11A5	182529
(2) COPY	12C8	151982
PUNCH	12D8	192139
EOL	12D8	142159

CAPACITORS

DESIG.	LOC.	PART NO.	VALUE
C1	12C6	192019	3MFD.
C2	9D5	182761	.5MFD.
C3	5C8	182501	1500MFD
C4	5C6	182501	1500MFD

FUSES

DESIG.	LOC.	PART NO.	VALUE	NOTE
C	12C4	117176	1/2A	
R	12A3	161136	6-1/4A	
FC	5C5	159269	3/8A	
FD	12B6	162360	.8A	
AG	12D5	117176	1/2A SLOW	7
		162360	1/2A SLOW	7

RESISTORS

DESIG.	LOC.	PART NO.	VALUE	NOTE
AA	a	182683	50Ω	
RA	4D1	165330	1KΩ	
R6	5C6	193439	32Ω	
R8	5D5	120216	1.8KΩ	
R10	8C1	165330	1KΩ	
R11	8C9	171524	700Ω	
R9	6A1	171523	500Ω	4
		194584	360Ω	5
R12	6C3	118187	27KΩ	

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

APPARATUS FIGURE FOR TELETYPEWRITER SETS (ASR)

APPROVALS

D AND R E OF M

E-NUMBER

PROD. NO. 6000WD-C3

DATE 10/5/62

P.D. FILE NO. G-A151AA

DRAWN GCK CHKD.

ENGD. WEC APPD.

TELETYPE CORPORATION

6000WD-C3

APPARATUS FIGURE 2

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

6000WD-C4

REVISIONS

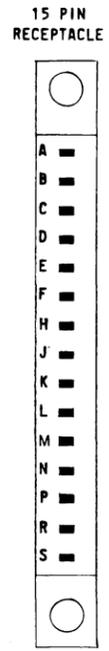
ISSUE	DATE	AUTH. NO.
2	8-23-63	77559
3	1-6-64	79414
4	9-7-64	79414-2
5	12-21-64	84609
6	2-2-65	85509
7	5-7-68	95523-4
8	11-15-68	96529

- 19 1
- 20 2
- 21 3
- 22 4
- 23 5
- 24 6
- 25 7
- 26 8
- 27 9
- 28 10
- 29 11
- 30 12
- 31 13
- 32 14
- 33 15
- 34 16
- 35 17
- 36 18

- 1 19
- 2 20
- 3 21
- 4 22
- 5 23
- 6 24
- 7 25
- 8 26
- 9 27
- 10 28
- 11 29
- 12 30
- 13 31
- 14 32
- 15 33
- 16 34
- 17 35
- 18 36

CONNECTOR

DESIG.	CD
PART NO.	161238
	161239
TERM.	LOC.
1	11D7
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	11D7
20	
21	
22	
23	
24	
25	
26	
27	11B2
28	
29	
30	11B2
31	11B2
32	11B4
33	11D8
34	11D8
35	
36	



PART NO. 193040  
TERMINALS ON BOTTOM  
OF RECEPTACLE ARE  
WIRE WRAP.

CONNECTOR

DESIG.	CA	CB
PART NO.	193040	193040
TERM.	LOC.	LOC.
A	11C8	11D3
B	11C7	
C	11C7	11C5
D		
E		11C4
F	11C8	
H	11C6	11E5
J	11C7	
K	11C7	
L	11C8	
M	11C8	11D5
N	11C6	
P	11C6	11D5
R	11C7	
S	11C8	

TERMINAL BOARD

DESIG.	TF
PART NO.	193868
TERM.	LOC.
AA1	11F7
AA2	11C7
AA3	
AA4	
AA5	11C7
AA6	11C7
AA7	
H1	11D7
H2	
H3	11B3
H4	11A4
H5	10D6
H6	
H7	11B3
J1	
J2	11D2
J3	11D6
J4	
J5	10C5
J6	
J7	10D7
K1	
K2	11C2
K3	
K4	
K5	
K6	11B1
K7	11C1
L1	
L2	11C2
L3	
L4	
L5	11E4
L6	11E5
L7	10F4
M1	11C8
M2	11C8
M3	
M4	
M5	
M6	
M7	

TERMINAL BOARD

DESIG.	TL	TU
PART NO.	151411	151411
TERM.	LOC.	LOC.
1	11D7	
2	10F4	11A2
3	10F3	11B2
4		10F3
5	10C7	11B3
6	10C6	11D8
7	11C7	11D8
8	11D7	10C7
9	11D7	11F7
10		
11		
12		
13		
14		
15		
16		
17		
18		

- 9 1
- 10 2
- 11 3
- 12 4
- 13 5
- 14 6
- 15 7
- 16 8

159542

- 1 9
- 2 10
- 3 11
- 4 12
- 5 13
- 6 14
- 7 15
- 8 16

159541

CONNECTOR

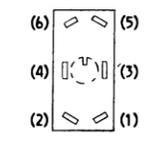
DESIG.	CJ
PART NO.	159541
	159542
TERM.	LOC.
1	11C7
2	11C7
3	11F7
4	
5	10C6
6	11B2
7	11B3
8	11C8
9	10D6
10	
11	11C7
12	11B4
13	11A2
14	10F3
15	10D7
16	11C8

RELAY

DESIG.	TFR	RCR
PART NO.	193834	193834
CODE	AK-1	AK-1
12	CONT ARR	CONT LOC
11		EBM 11B3
10		EBM 11A4
9		M 11B3
8		B 11C6
7		EMB 11C2
6		
5	B	
4	B	
3		
2	EBM	
1	M 11B3	
COIL	11B2	11C2

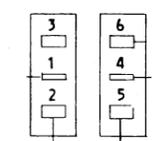
SWITCH

DESIG.	ALL TRAFFIC
PART NO.	139778
TERM.	LOC.
1	11D2
2	
3	11D2
4	
5	
6	



SWITCH

DESIG.	TAPE OUT
PART NO.	194220
TERM.	LOC.
1	10F3
2	10F3
3	
4	10C6
5	10C6
6	10C6



MAGNET COILS

DESIG.	LOC.	PART NO.
ROTR	11D8	271M
RIBBON SHIFT	11E7	224M
TAPE FEED	11B2	224M

MOTOR

DESIG.	LOC.	PART NO.
ROTR	11D7	170764

NETWORK

DESIG.	LOC.	PART NO.
RCR	11C2	153631
MST	11B2	153631
RIBBON SHIFT	11E7	153631

CORD

DESIG.	LOC.	PART NO.
CE	11F8	114467

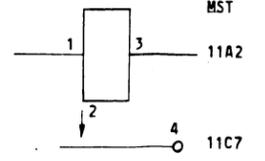
LAMPS

DESIG.	LOC.	PART NO.
ROTR LOW TAPE	10F3	151982
ROTR CHAD WARNING	10F3	151982

SWITCH

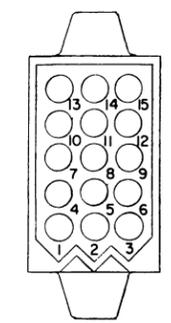
DESIG.	LOC.	PART NO.
TAPE FEED MOTOR HOLD	11A3	195005
ROTR CHAD WARNING	10F4	158163
PS	11D7	178714
RIBBON SHIFT	11E7	192850

RELAY



PRINTED CIRCUIT CARD

DESIG.	PART NO.	LOCATION
ROTR SELECTOR MAGNET DRIVER	193440	11B7, PAGE 1
ROTR SELECTOR MAGNET DRIVER	182630	11B7, PAGE 2



182540  
CABLE  
TERMINAL NUMBERING AS  
VIEWED FROM TERMINAL END

TERMINALS ARE INDIVIDUALLY  
INSERTED AND MAY BE EITHER  
MALE OR FEMALE

INSERT	PART NO.
MALE	182643
FEMALE	182644

RESISTOR

DESIG.	LOC.	PART NO.	VALUE
RD	11C8	193439	32Ω
RE	11A1	153455	600Ω
RF	11B1	77362	350Ω
RC	11C1	153455	600Ω

FUSE

DESIG.	LOC.	PART NO.	VALUE
FA	11C7	182611	3/8 A
FB	11D7	129919	4 A

TRANSFORMER

DESIG.	LOC.	PART NO.
TR3	11C8	330795

(SOME UNITS CONTAIN 182519 TRANSFORMER)

CAPACITOR

DESIG.	LOC.	PART NO.	VALUE
CA	11C7	182501	1500MFD

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

APPARATUS FIGURE FOR  
TELETYPEWRITER SETS  
(A S R)

APPROVALS

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

E-NUMBER

PROD. NO. 6000WD-C4

DATE 10-5-62

P.D. FILE NO. G-A151AA

DRAWN G.C.K. CHKD.

ENGD. W.E.C. APPD.

TELETYPE CORPORATION

6000WD-C4

APPARATUS FIGURE 3

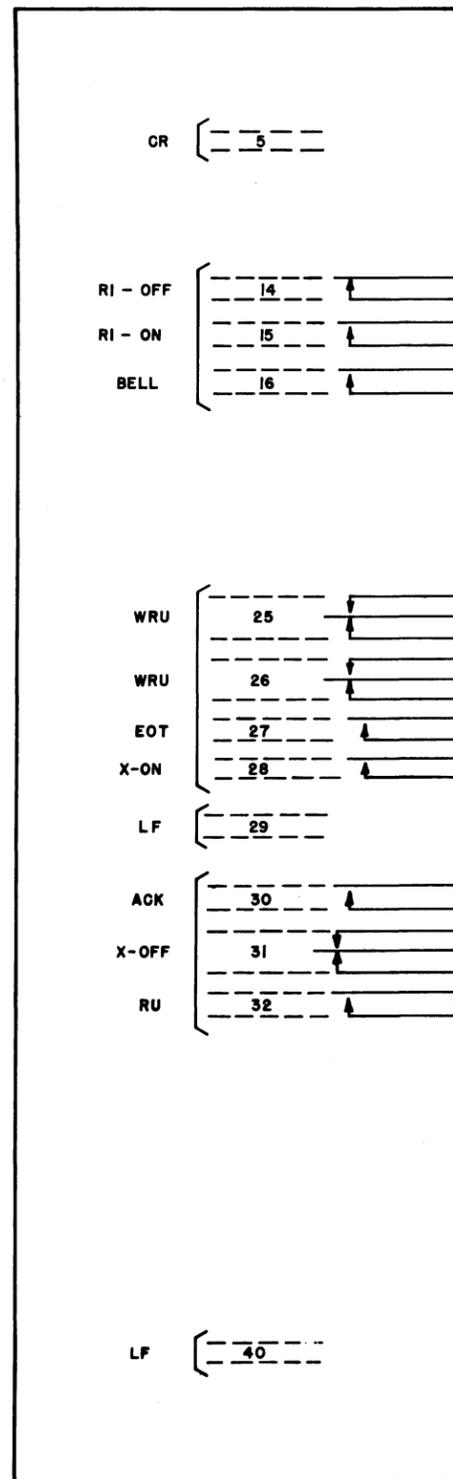
NOTE:  
REVISION INFORMATION MUST  
ALSO BE REFLECTED ON THE  
ISSUE CONTROL RECORD, WHICH  
IS A PART OF THIS DRAWING.

6000WD-C5

REVISIONS

ISSUE	DATE	AUTH. NO.
2	5-8-64	81597-1
3	12-21-64	84609

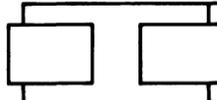
STUNT BOX DESIG. "ATG"



CONNECTOR

DESIG.	R
TTY	
TERM.	LOC.
23	11E3
25	11E3
24	
17	
50	12D7
21	
25	6D7
22	
40	
41	6D5
12	
8	7D6
9	
19	6D5
10	
26	6D5
43	
42	6D7
20	
3	6D3
18	

MAGNET COILS  
DESIG. LP



CONNECTOR	
DESIG.	R.
TERM.	LOC.
1	5E8
2	5E8
1	35 10D5
2	34 10D5
3	29 10D5
4	
5	37 9F3
6	36 9F3

SWITCH DESIG.  
PAPER OUT ALARM



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

APPARATUS FIGURE FOR  
TELETYPEWRITER SETS  
(ASR)

APPROVALS

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

E-NUMBER

PROD. NO. 6000WD-C5

DATE 10-5-62

P.D. FILE NO. 0-A151AA

DRAWN H.J. CHKD. *[Signature]*

ENGD. W.E.C. APPD. *[Signature]*

TELETYPE  
CORPORATION

6000WD-C5

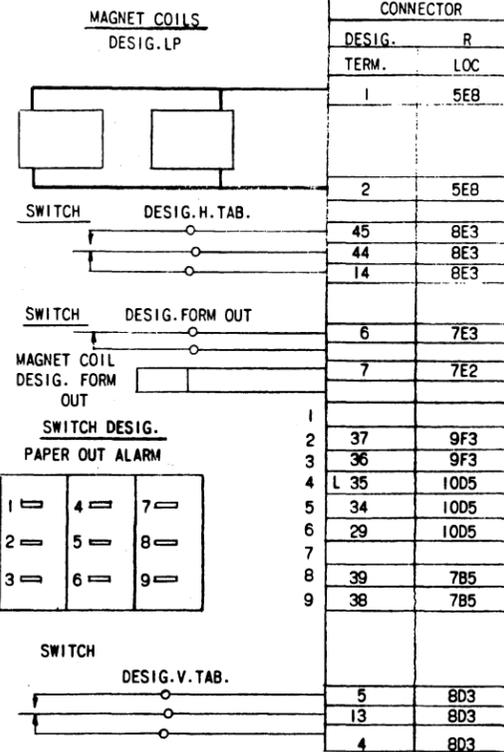
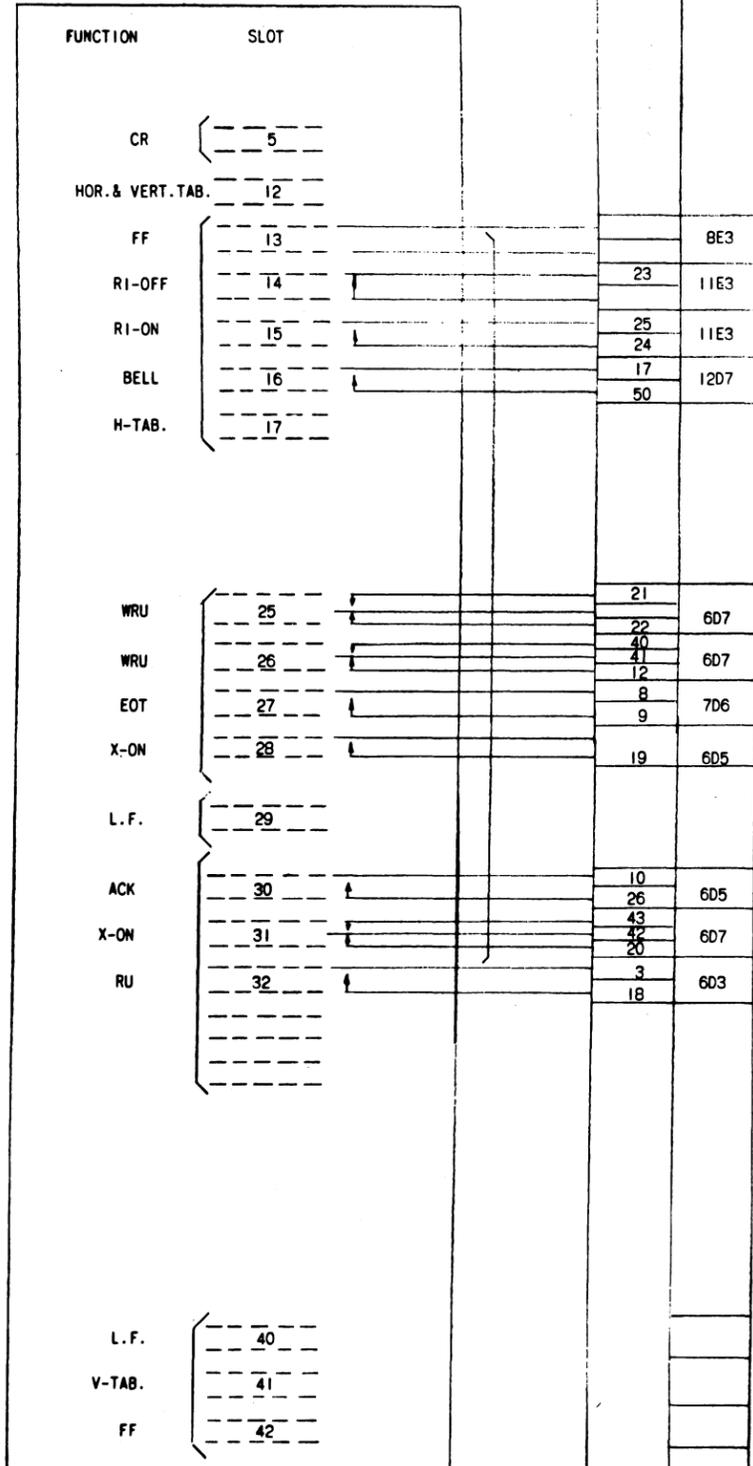
APPARATUS FIGURE 4

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

6000 WD-C6

REVISIONS		
ISSUE	DATE	AUTH. NO.
2	4/20/64	81597
3	12-21-64	84609

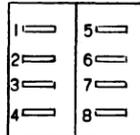
STUNT BOX DESIG.  
\*ATH\* STUNT BOX



NETWORK

DESIG.	LOC.	PART NO.
FORM OUT	7E2	153631

SWITCH K  
DESIG. PAPER JAM ALARM



TERM.	LOC.	PART OF R CONN.	LOC.
1			
2	7B5		
3			
4	7B5		
5	10E5	35	10E5
6	10E5		
7			
8	10E5		

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

APPARATUS FIGURE FOR  
TELETYPEWRITER SETS  
(ASR)

APPROVALS

D AND R E OF M

E-NUMBER  
PROD. NO. 6000WD-C6  
DATE 10/5/62  
P.D. FILE NO. G-A151AA  
DRAWN G.C.K. CHKD. J.P.M.  
ENGD. W.E.C. APPD. B.A.S.

TELETYPE  
CORPORATION

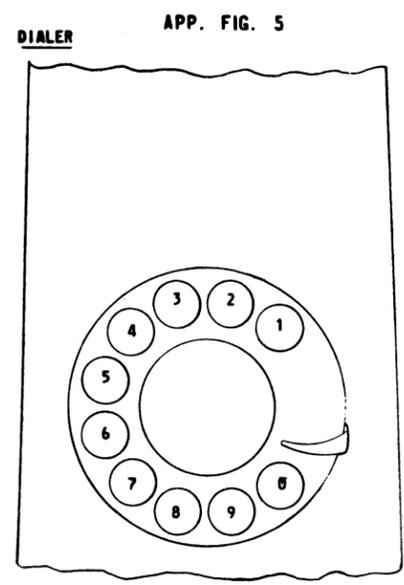
6000 WD-C6

# 6000WD-C7

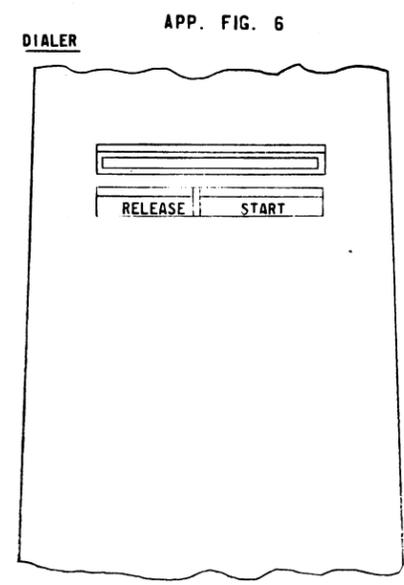
NOTE:  
REVISION INFORMATION MUST  
ALSO BE REFLECTED ON THE  
ISSUE CONTROL RECORD, WHICH  
IS A PART OF THIS DRAWING.

## REVISIONS

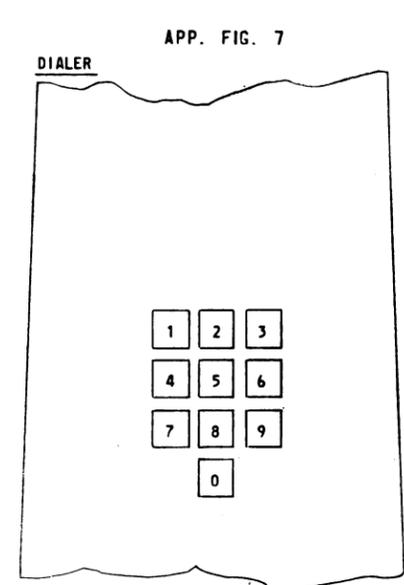
ISSUE	DATE	AUTH. NO.
2	12-13-62	75364
3	12-9-63	79390
4	12-21-64	84609
5	5-16-69	99164



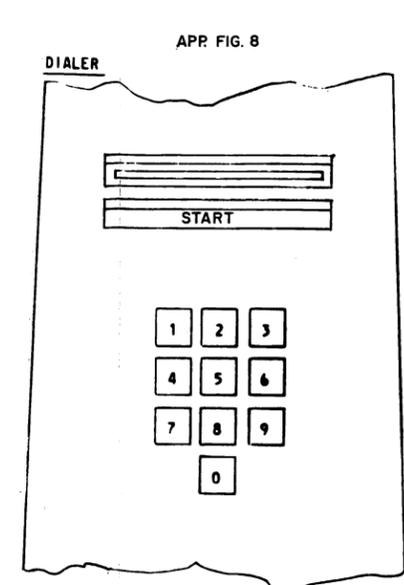
**DIALER**  
APP. FIG. 5  
DESIG. 8G PULSE DIALER (ROTARY DIAL)  
LOC. 2C5, 2F8  
OPTION CODE WECCO 8G  
BSP SECTION 501-162-100  
TELETYPE NO. 182500



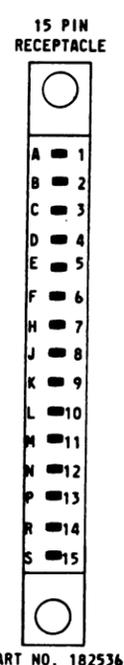
**DIALER**  
APP. FIG. 6  
DESIG. 41A PULSE DIALER  
LOC. 2B7  
OPTION CODE WECCO 41A  
BSP SECTION 501-163-100  
TELETYPE NO. 182622



**DIALER**  
APP. FIG. 7  
DESIG. TOUCH-TONE DIALER. 25F1-49  
LOC. 3C4  
OPTION CODE WECCO 25F1-49  
BSP SECTION 501-164-105  
TELETYPE PART NO. 182620



**DIALER**  
APP. FIG. 8  
DESIG. TOUCH-TONE CARD DIALER 26C-49  
LOC. 3B4  
OPTION CODE WECCO 26C-49  
BSP SECTION 501-164-106  
TELETYPE NO. 182621

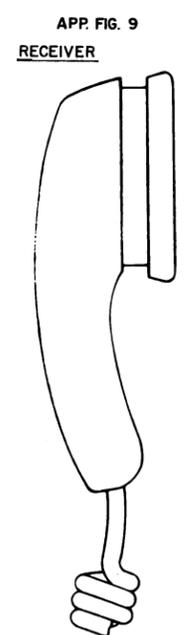


PART NO. 182536

**CONNECTOR**

DESIG.	M	N
PART NO.	182536	182536
OPTION	T.U.	MYX
TERM.	LOC.	LOC.
A		3E4
B	2F7	3F7
C	2E4	3F3
D	2F4	3F3
E	2E5	3E4
F	2F7	3F7
H	2F7	3F7
J		
K		
L	2F4	3F3
M	2E7	3E7
N	2E7	3E7
P	2F4	3F3
R	2F4	3F3
S	2E5	3E5

**FILTER**  
DESIG. CJ  
LOC. 2C4  
OPTION  
TELETYPE NO. 182532



**RECEIVER**  
APP. FIG. 9  
DESIG. REC  
LOC. - Q  
OPTION  
PART NO. 182662  
WECCO CODE 731A61  
① 2F7  
② ③ 3F8

**PRINTED CIRCUIT CARDS**

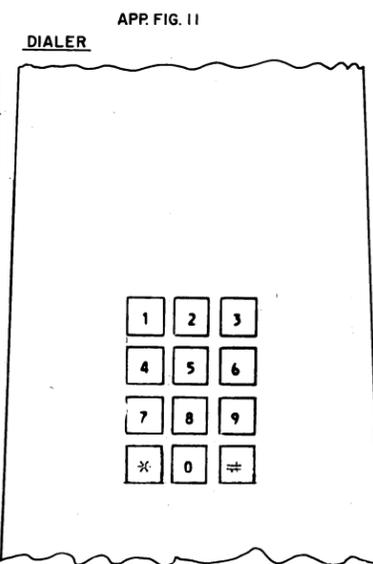
DESIG.	PART NO.	LOC.
(2) TURN AROUND TRAFFIC CONTROL	177519	Q
	Q	502
		11D4

**RESISTOR**

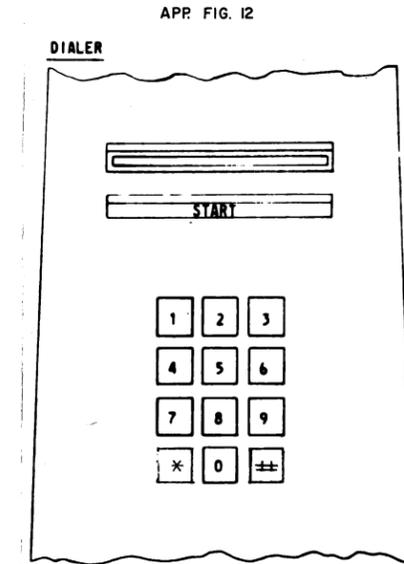
DESIG.	LOC.	PART NO.	VALUE
R2	3E4	182765	200Ω
PT	3E4	182686	50K Ω

**CAPACITOR**

DESIG.	LOC.	PART NO.	VALUE
CK	3D5	182799	.25MFD



**DIALER**  
APP. FIG. 11  
DESIG. TOUCH-TONE DIALER 35N1A  
LOC. 3C4  
OPTION CODE WECCO 35N1A  
BSP SECTION 501-164-115  
TELETYPE PART NO. 186595



**DIALER**  
APP. FIG. 12  
DESIG. TOUCH-TONE CARD DIALER 36J  
LOC. 3B4  
OPTION CODE WECCO 36J  
BSP SECTION 501-164-116  
TELETYPE PART NO. 186596

**PRINTED CIRCUIT CARD**

DESIG.	PART NO.	LOC.
AMPLIFIER CARD	182743	Q
		① 2F5
		② ③ 3F5

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

APPARATUS FIGURE FOR TELETYPEWRITER SETS (ASR)

**APPROVALS**

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

E-NUMBER  
PROD. NO. 6000WD-C7

DATE 10/3/62

P.D. FILE NO. 8-A151AA

DRAWN N.B. CHKD. *[Signature]*

ENGD. M.E.C. APPD. *[Signature]*

TELETYPE CORPORATION

# 6000WD-C7



CONTENTS	SHEET NO.	SHEET INDEX																												SHEET NO.
		ISSUE NO.																												
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
CONTROL CIRCUITS	1	X	X	X																										
SIGNAL GENERATORS, SELECTOR MAGNET DRIVER AND BREAK DETECTOR	2	X	X	X																										
POWER CIRCUITS	3	X	X	X																										
NOTES	4	X	X																											

SUPPORTING INFORMATION	
CATEGORY	NO.
WIRING DIAGRAM PACKAGE	WDP0152

- SHEET INDEX NOTES**
1. WHEN CHANGES ARE MADE IN THIS DRAWING ONLY THOSE SHEETS AFFECTED WILL BE REISSUED.
  2. THIS SHEET INDEX WILL BE REISSUED AND UPDATED EACH TIME ANY SHEET OF THE DRAWING IS REISSUED OR A NEW SHEET IS ADDED.
  3. THE LAST COMPLETED COLUMN INDICATES THE LATEST ISSUE NUMBER OF THE SHEET INDEX.
  4. SHEETS THAT ARE NOT CHANGED WILL RETAIN THEIR EXISTING ISSUE NO.
  5. ISSUE DATES WILL BE SHOWN ON THE SHEET INDEX ONLY.

REVISIONS		
ISSUE	DATE	AUTH. NO.
1	6-6-69	19474-R
2	9-26-69	99475
3	4-1-70	99954

SHEETS

WDP

SCHEMATIC  
WIRING DIAGRAM  
FOR MODEL 33  
AUTOMATIC SEND-RECEIVE  
KEYBOARD SEND-RECEIVE  
AND  
RECEIVE ONLY  
SETS  
USING THE UCC 29

APPROVALS		
PROJ. SUPV.	PROJ. DIR.	MFG. REL. COMPL.
ENGR. R.C.H.	DSGMR.	
DRN. J.L.	DATE 7-2-69	
R & D FILE	2-165-152AA	
S-NUMBER	61,584S-734S	

**TELETYPE**

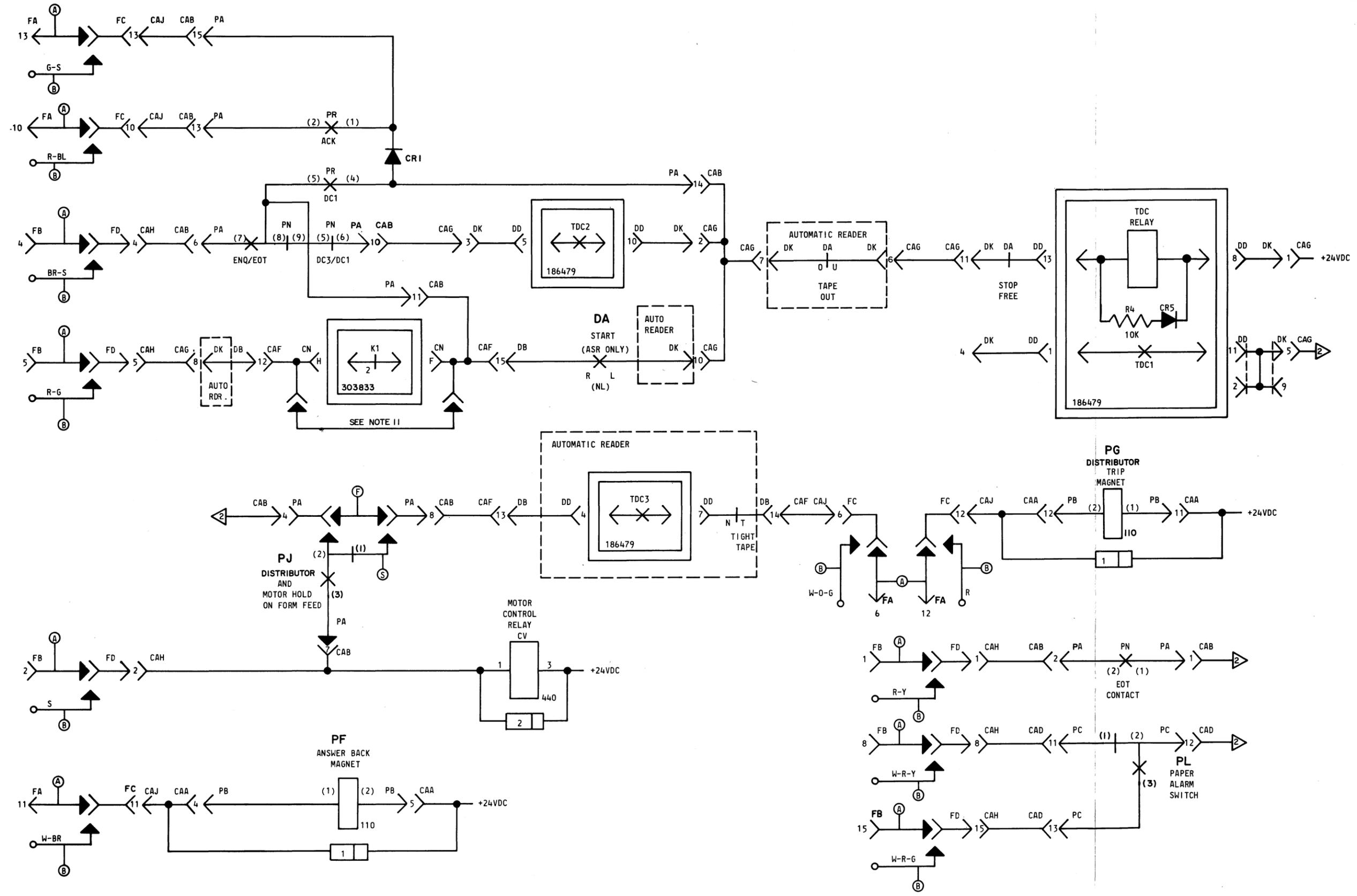
**8163WD**

SEE SHEET 4 FOR NOTES

CONTROL CIRCUITS

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

REVISIONS		
ISSUE	DATE	AUTH. NO.
1	6-6-69	19474-R
2	9-26-69	99475
3	3-31-70	99954



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

WDP SHEET 1

SCHMATIC WIRING DIAGRAM FOR MODEL 33 AUTOMATIC SEND-RECEIVE KEYBOARD SEND-RECEIVE AND RECEIVE ONLY SETS USING THE UCC 29

APPROVALS

PROJ. SUPV.	PROJ. DIR.	MFG. REL. COMPL.
ENGR. R. C. H. DSGNR.	DRN. J. L. DATE 7-1-69	R & D FILE 2-165.152AA
S-NUMBER 61,584S-734S		

TELETYPE

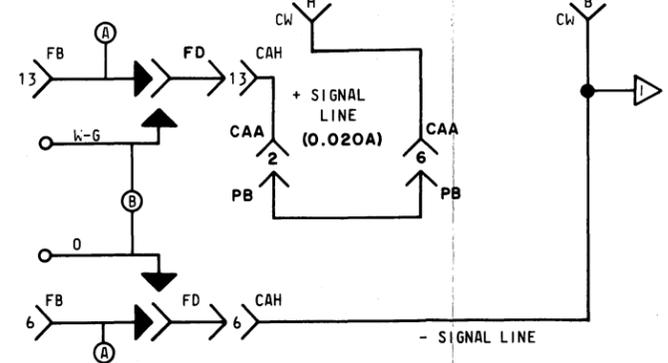
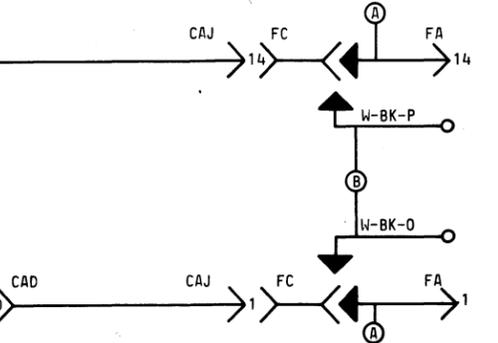
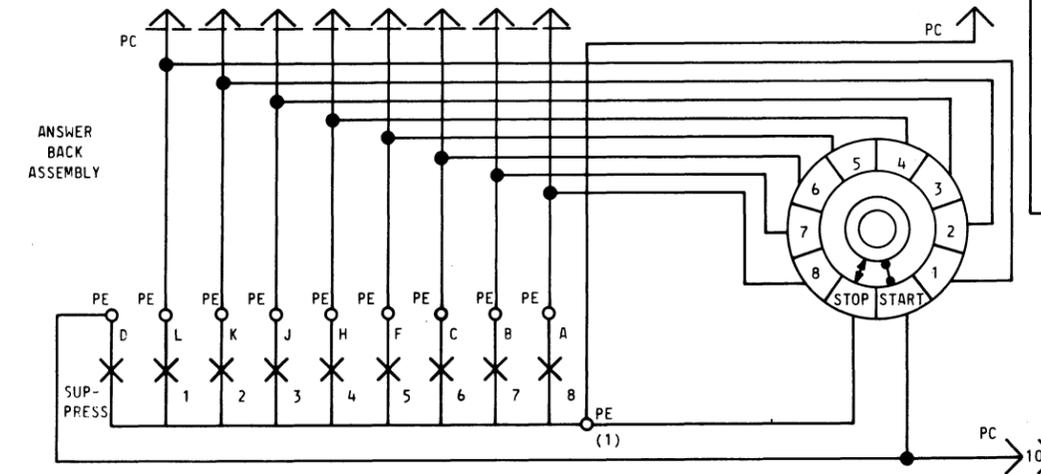
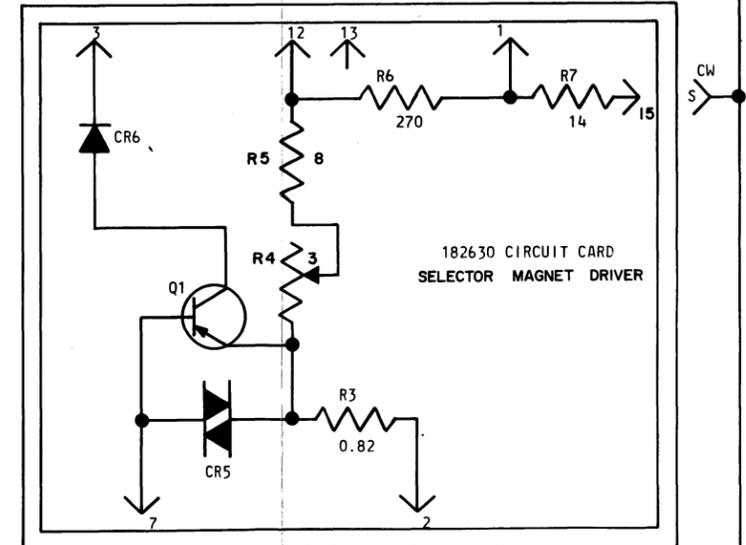
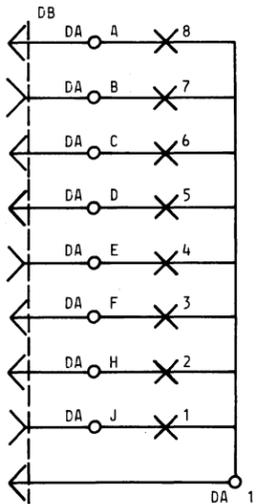
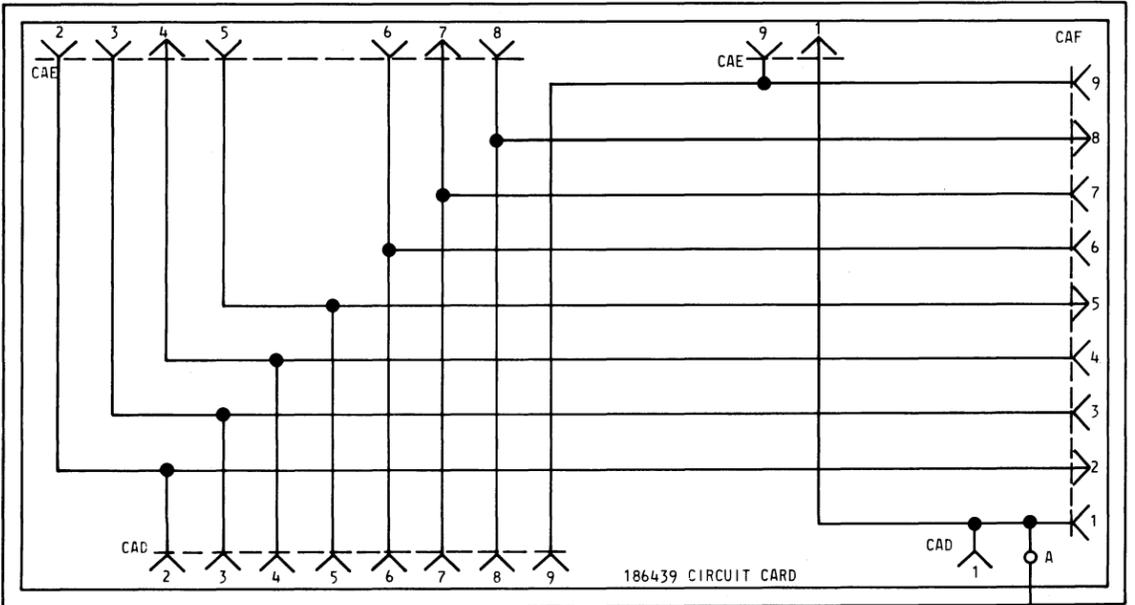
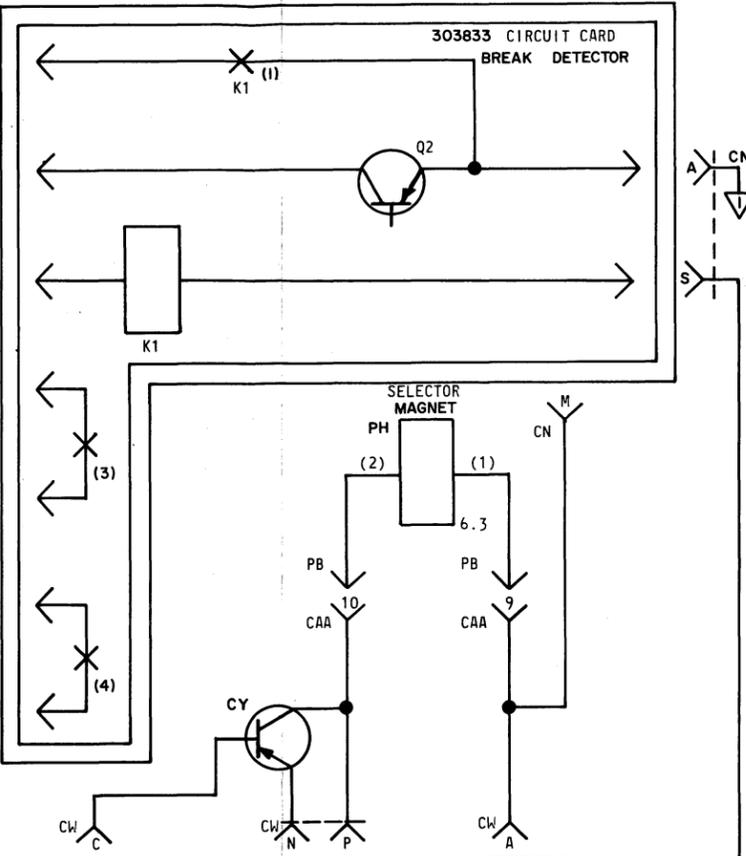
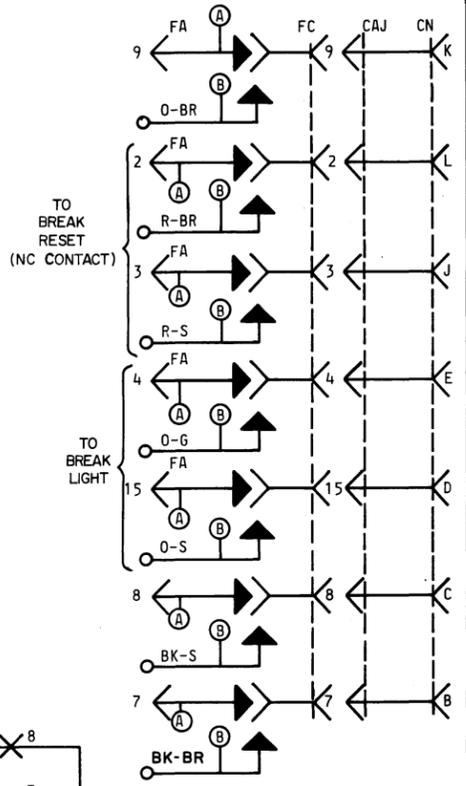
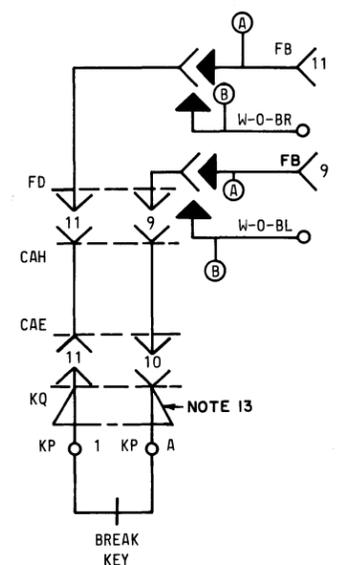
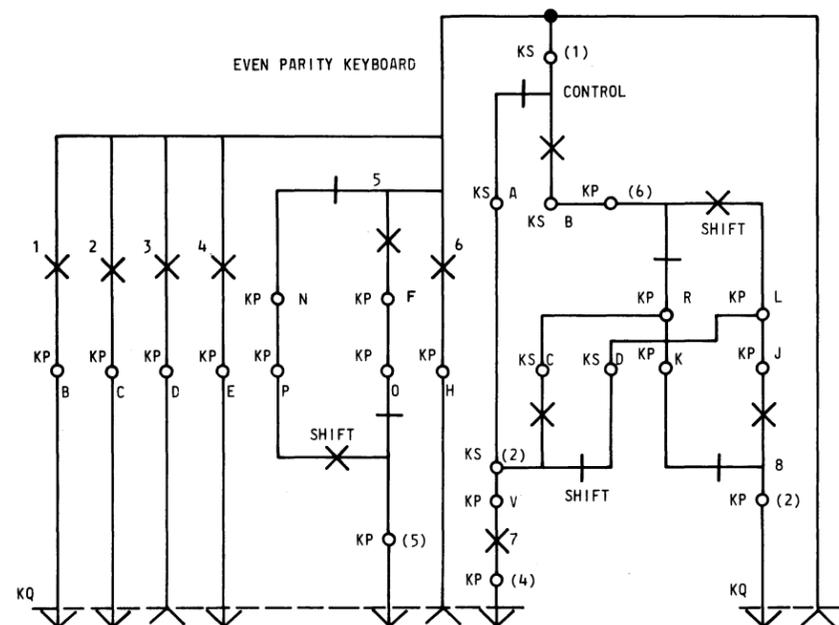
**8163WD**

SEE SHEET 4 FOR NOTES

SIGNAL GENERATORS, SELECTOR MAGNET DRIVER AND BREAK DETECTOR

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

REVISIONS		
ISSUE	DATE	AUTH. NO.
1	6-6-69	19474-R
2	9-26-69	99475
3	4-1-70	99954



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

WDP SHEET 2

SCHMATIC WIRING DIAGRAM FOR MODEL 33 AUTOMATIC SEND-RECEIVE KEYBOARD SEND-RECEIVE AND RECEIVE ONLY SETS USING THE UCC 29

APPROVALS  
 PROJ. SUPV. PROJ. DIR. MFG. REL. COMPL.

ENGR. R.C.H. DSGNR.  
 DRN. J.L. DATE  
 R&D FILE 2-165.152AA  
 S-NUMBER 61,584 S-734S

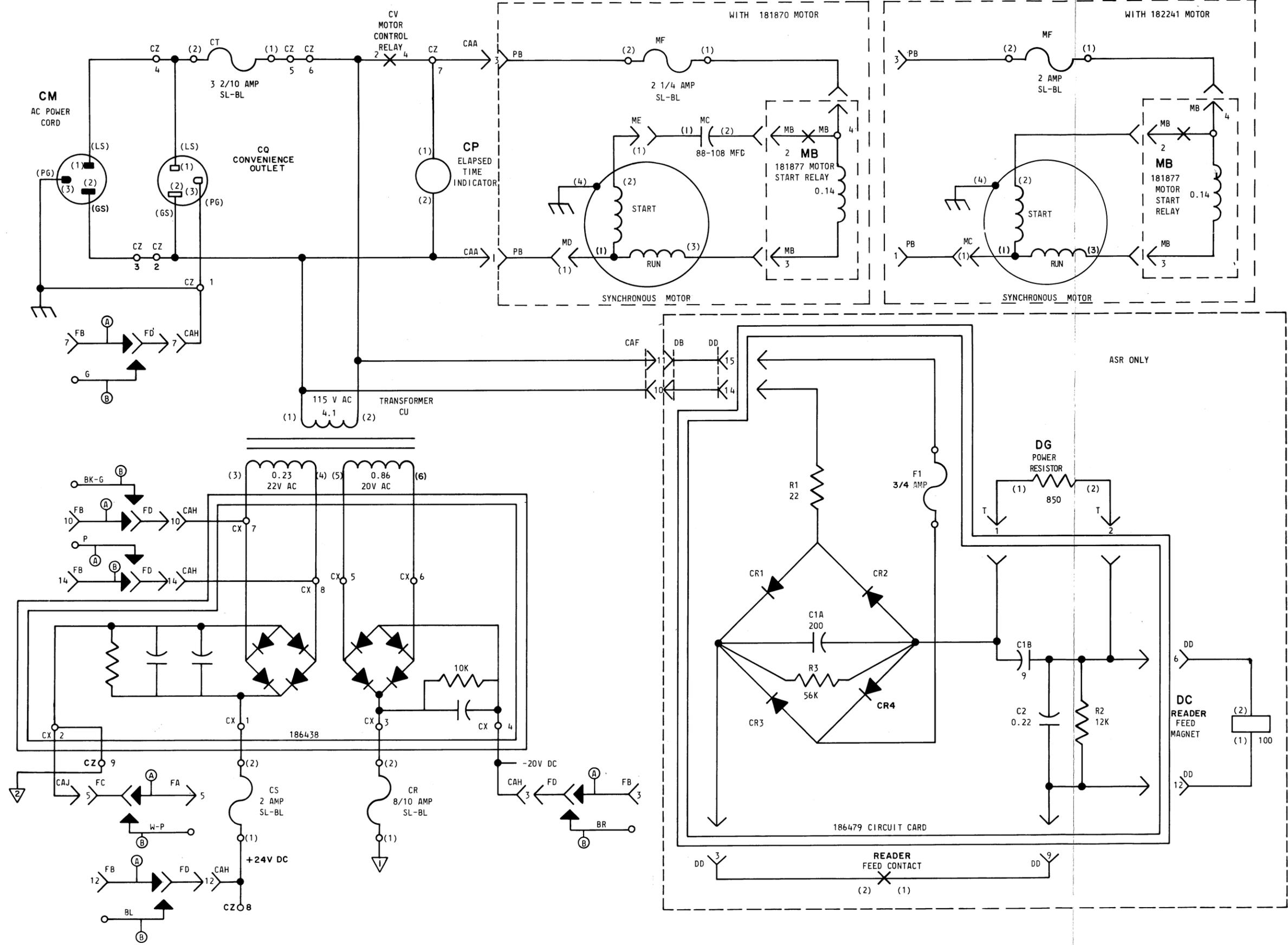


8163WD

POWER CIRCUITS

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

REVISIONS		
ISSUE	DATE	AUTH. NO.
1	6-6-69	19474-R
2	9-26-69	99475
3	4-1-70	99954



WDP SHEET 3

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

SCHEMATIC WIRING DIAGRAM FOR MODEL 33 AUTOMATIC SEND-RECEIVE KEYBOARD SEND-RECEIVE AND RECEIVE ONLY SETS USING THE UCC 29

APPROVALS

PROJ. SUPV.	PROJ. DIR.	MFG. REL. COMPL.
ENGR. R. C. H. DSGNR.	DRN. J. L.	DATE
R & D FILE 2-165.152AA		
S-NUMBER 61,584S-734S		

TELETYPE

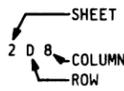
**8163WD**

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

REVISIONS		
ISSUE	DATE	AUTH. NO.
1	9-26-69	99475
2	4-1-70	99954

- NO. NOTES
- ALL VOLTAGES DC UNLESS OTHERWISE SPECIFIED.
  - RESISTANCE VALUES ARE IN OHMS.
  - CAPACITANCE VALUES ARE IN MICROFARADS.
  -  INDICATES FEMALE TERMINAL  
 INDICATES MALE TERMINAL
  -  NETWORK SYMBOL  

NETWORK NO.	TELETYPE NO.	RESISTANCE	CAPACITANCE
1	151631	470 OHM	0.11MFD
2	178535	470 OHM	0.11MFD
  - SL-BL DENOTES SLOW BLOWING
  - WIRE COLOR CODE:  

O - ORANGE	Y - YELLOW	R - RED
P - PURPLE	W - WHITE	G - GREEN
S - SLATE	BL - BLUE	BR - BROWN
	BK - BLACK	
  - LEGEND FOR SHEET REFERENCE:  

  -  INDICATES OPTION  

A 336464 CABLE TERMINATES AT EACH END IN TWO 15 PIN CONNECTORS.  
 B 336463 CABLE TERMINATES IN 30 SPADE TERMINALS ON ONE END.  
 F FRICTION FEED PRINTER.  
 S SPROCKET FEED PRINTER.
  -  INDICATES COMMON RETURN TO +24VDC  
 INDICATES COMMON RETURN TO -20VDC
  - CONNECTION BETWEEN CN-F AND CN-H IS REMOVED WHEN 303833 CIRCUIT CARD IS USED.
  - REFERENCE: 8162WD ACTUAL WIRING DIAGRAM UCC 29 CALL CONTROL UNIT.
  - ON RO SETS SUBSTITUTE THE 181838 PLUG ASSEMBLY ON CONNECTOR NO 7 "CAE".

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

NDP SHEET 4

SCHEMATIC  
WIRING DIAGRAM  
FOR MODEL 33  
AUTOMATIC SEND-RECEIVE  
KEYBOARD SEND-RECEIVE  
AND  
RECEIVE ONLY  
SETS  
USING THE UCC 29

APPROVALS

PROJ. SUPV.	PROJ. DIR.	MFG. REL. COMPL.
-------------	------------	------------------

ENGR. R. C. H. DSGNR.  
 DRN. J. I. DATE 7-2-69  
 R & D FILE 2-165.152AA  
 S-NUMBER 6 1.5845-734S



8163WD



8226 WD

REVISIONS

ISSUE	DATE	AUTH. NO.
1	8-23-67	94324-B
2	11-15-68	96529
3	12-16-68	96463
4	12-31-69	99875

NO. NOTES

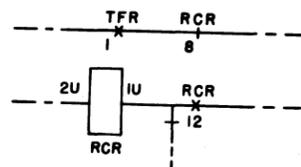
13. 27KΩ RESISTOR IS NOT PRESENT ON SOME SETS.

14. 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.

**00-A** A - DENOTES WIRING AFTER THE CHANGE DESCRIBED BY THE DESIGNATED NOTE ENTERED THE PRODUCT.

15. WIRING WAS CHANGED TO PROVIDE MAKE BEFORE BREAK TRANSFER CONTACT FOR ENERGIZING RCR RELAY. FORMER WIRING WAS AS FOLLOWS:



16. NETWORK ASSEMBLY



SOME UNITS DO NOT HAVE THIS NETWORK ASSEMBLY.

17. ON ISSUE 3 OF SHEET 5, DIODE CR11A WAS ABSENT.

WDP

ISSUE CONTROL SHEET 2 OF 2

DETACHED SCHEMATIC WIRING DIAGRAM FOR TELETYPEWRITER SETS (ASR) VSL347,348,349,350

APPROVALS

D AND R <i>H.J.K.</i>	E OF M <i>[Signature]</i>
--------------------------	------------------------------

E-NUMBER

PROD. NO. 8226 WD

DATE 8-23-67

P.D. FILE NO.

DRAWN F.E.R.	CHKD. T.C.L.
ENGD. R.H.L.	APPD. R.R.S.

TELETYPE CORPORATION

8226 WD



REFER TO CONTROL SHEET 1 FOR NOTES

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

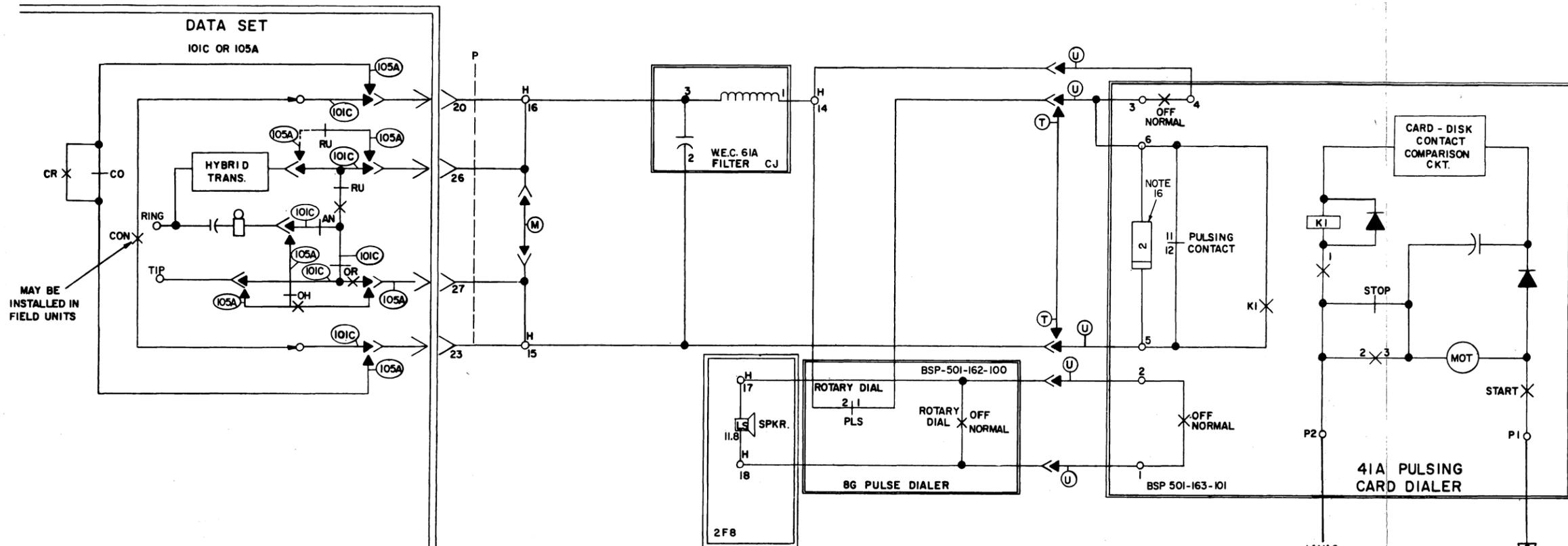
8226 WD

REVISIONS

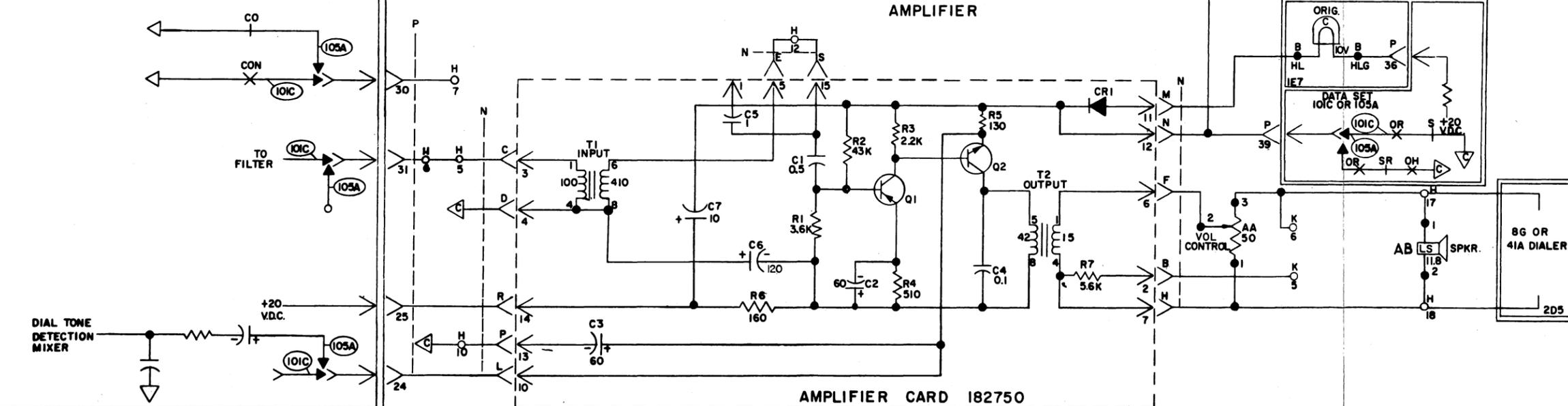
ISSUE	DATE	AUTH. NO.
1	12-21-66	18120-R
2	4-12-67	93156
3	12-16-68	96463
4	5-7-70	8

FS-8  
ROTARY DIAL (8G) & PULSING CARD DIALER (41A)

(T,U)



FS-9  
AMPLIFIER



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

SHEET 2

DETACHED SCHEMATIC  
WIRING DIAGRAM  
FOR  
TELETYPEWRITER SETS  
(ASR)  
VSL347, 348, 349, 350

APPROVALS

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

E-NUMBER

PROD. NO. 8226WD

DATE 9-30-66

P.D. FILE NO. G-A151.219A

DRAWN CHKD. [Signature]

ENG. R.H.L. APPD. [Signature]

TELETYPE  
CORPORATION

8226 WD

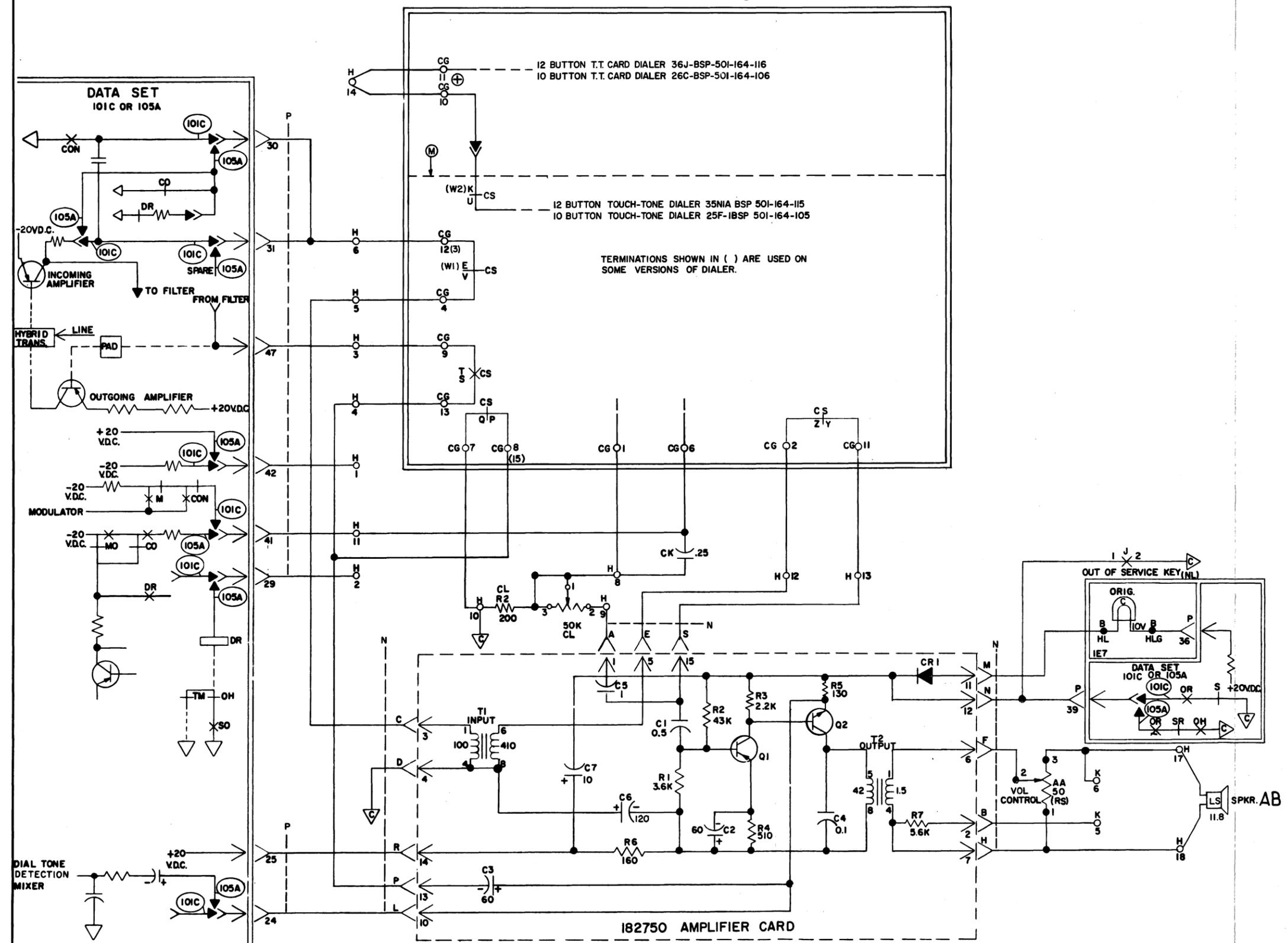
INDICATES COMMON RETURN TO THE POWER SUPPLY—  
NOT RELATED TO CHASSIS POTENTIAL.

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

**8226 WD**

REVISIONS		
ISSUE	DATE	AUTH. NO.
1	12-21-66	18120-R
2	4-12-67	93156
3	7-29-69	99499
4	5-7-70	8

FS-10  
TOUCH-TONE DIALER &  
AMPLIFIER CIRCUIT (M)



REFER TO CONTROL SHEET 1 FOR NOTES

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

SHEET 3 WDP

DETACHED SCHEMATIC  
WIRING DIAGRAM  
FOR  
TELETYPEWRITER SETS  
(ASR)  
VSL347, 348, 349, 350

APPROVALS

D AND R E OF M

E-NUMBER

PROD. NO. 8226WD

DATE 9-30-66

P.D. FILE NO. G-A151.219A

DRAWN CHKD. *for*

ENGD. R.H.L. APPD. *RRS*

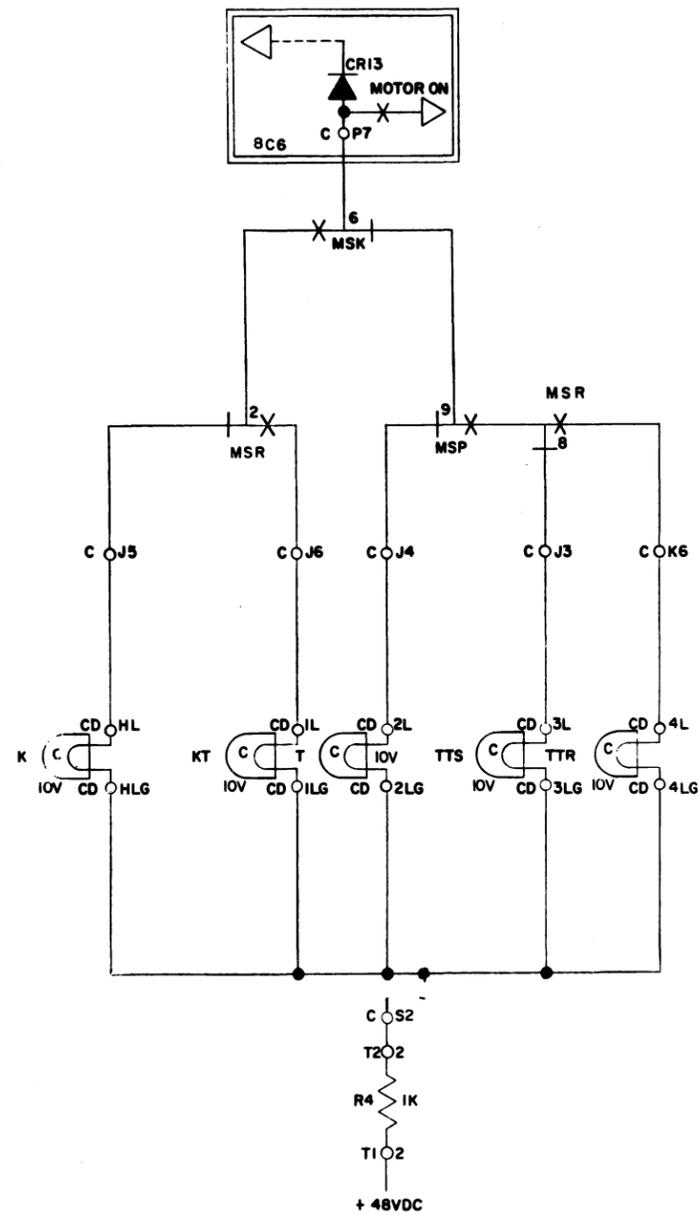
TELETYPE CORPORATION

**8226 WD**

INDICATES COMMON RETURN TO THE POWER SUPPLY- NOT RELATED TO CHASSIS POTENTIAL.

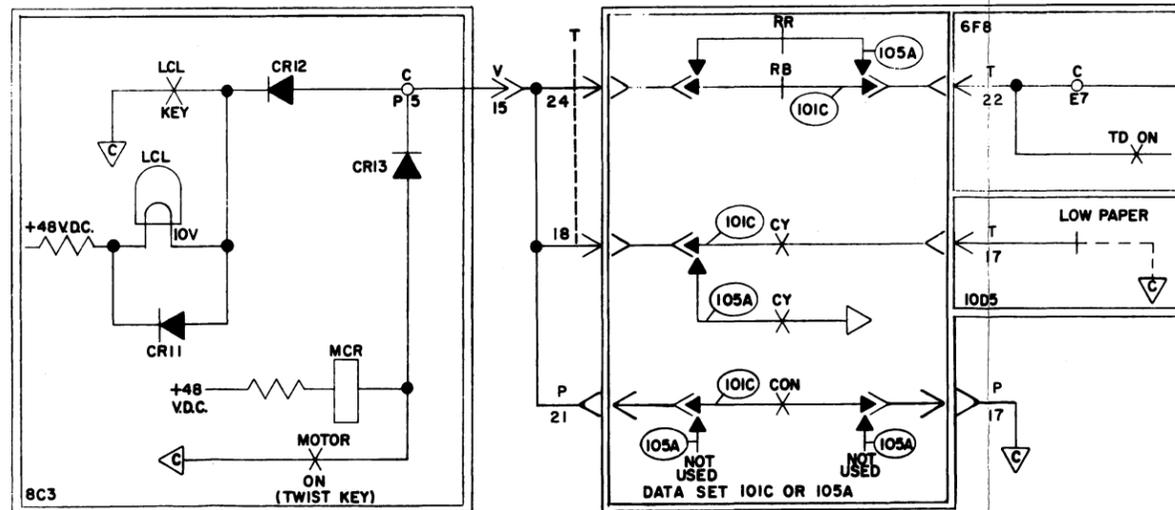
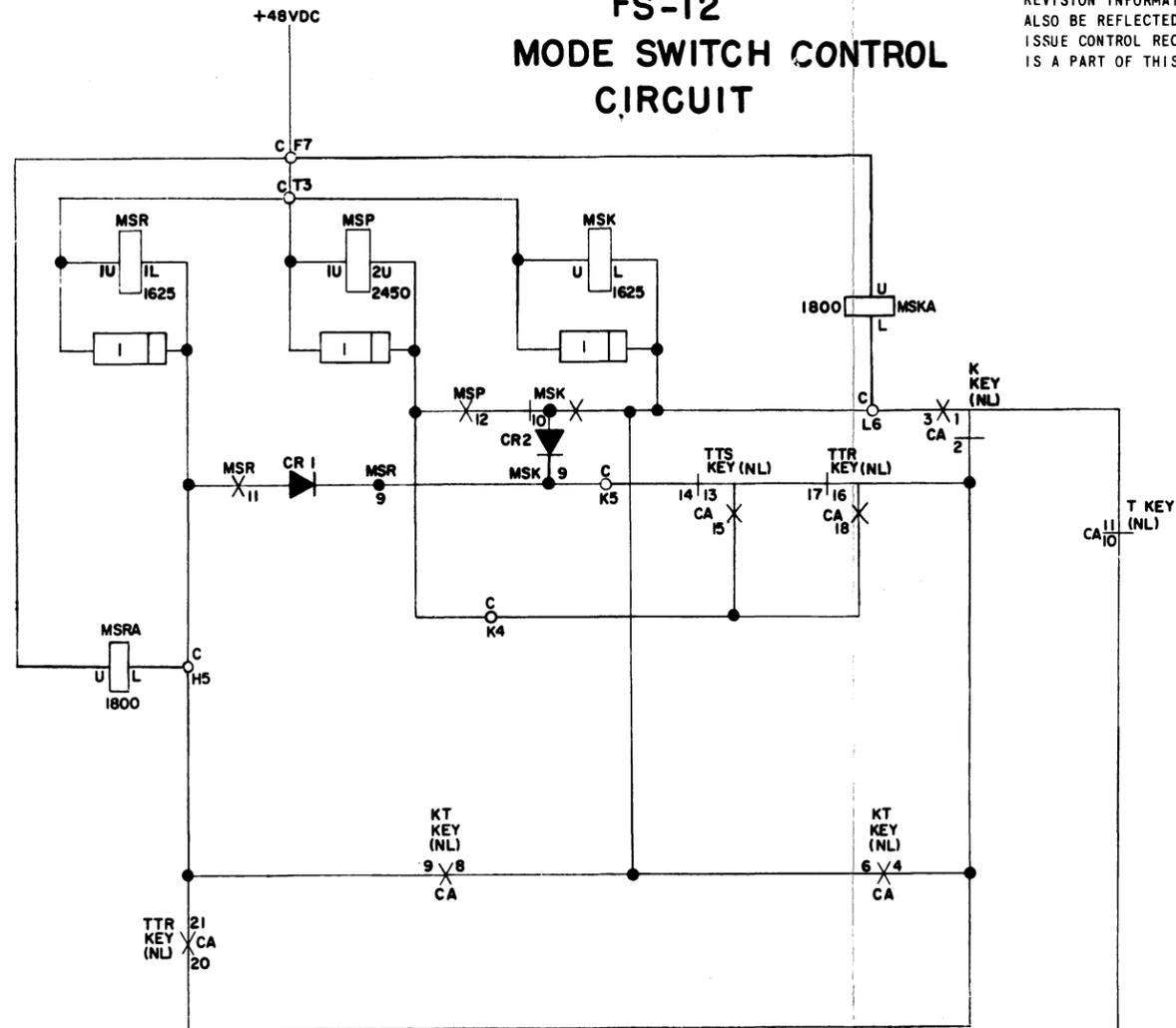
REFER TO CONTROL SHEET 1 FOR NOTES

### FS-11 MODE SWITCH LAMP CIRCUIT



DENOTES ARC SUPPRESSION NETWORK 153631  
 INDICATES COMMON RETURN TO THE POWER SUPPLY- NOT RELATED TO CHASSIS POTENTIAL.

### FS-12 MODE SWITCH CONTROL CIRCUIT



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

**8226 WD**

REVISIONS

ISSUE	DATE	AUTH. NO.
1	12-21-66	18120-R
2	4-12-67	93156

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

SHEET 4

DETACHED SCHEMATIC  
WIRING DIAGRAM  
FOR  
TELETYPEWRITER  
(ASR)  
VSL 347, 348, 349, 350

APPROVALS

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

E-NUMBER

PROD. NO. 8226WD

DATE 9-30-66

P.D. FILE NO. G-A151.219A

DRAWN *[Signature]* CHKD. *[Signature]*  
 ENGD. R.H.L. APPD. *[Signature]*

TELETYPE  
CORPORATION

**8226 WD**

SEE CONTROL SHEET I FOR NOTES

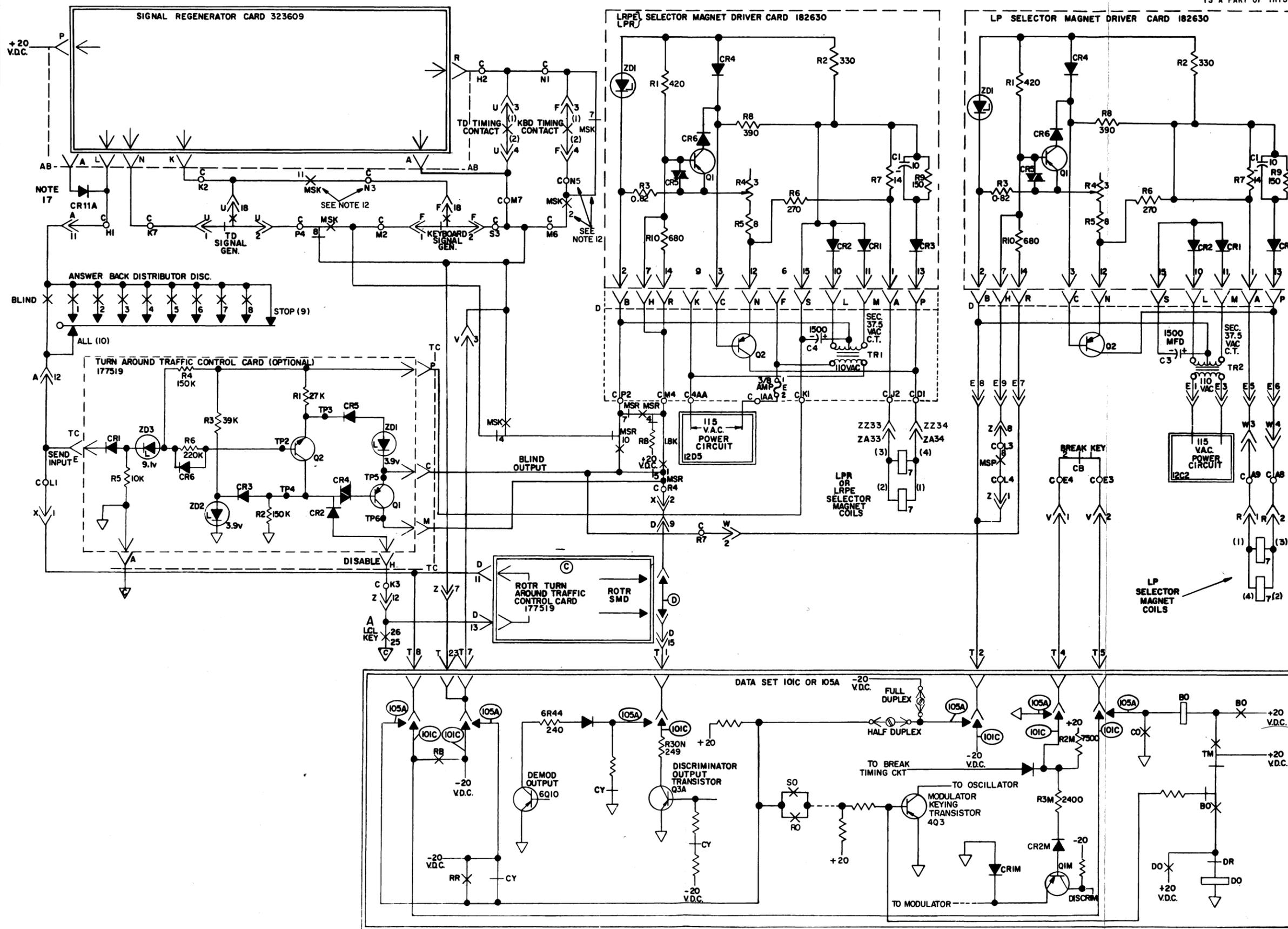
# FS-13 SIGNAL GENERATORS AND SELECTOR MAGNET DRIVERS

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

## 8226 WD

### REVISIONS

ISSUE	DATE	AUTH. NO.
1	12-21-66	18120-R
2	3-30-67	93019
3	4-12-67	93156
4	12-31-69	99875



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

SHEET 5

DETACHED SCHEMATIC  
WIRING DIAGRAM  
FOR  
TELETYPEWRITER SETS  
(ASR)  
VSL347, 348, 349, 350

### APPROVALS

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

E-NUMBER

PROD. NO. 8226WD

DATE 9-30-66

P.D. FILE NO. G-A151.219A

DRAWN

CHKD. *Tde*

ENGD. R.H.L.

APPD. *RRS*

TELETYPE CORPORATION

## 8226 WD

SEE CONTROL SHEET I FOR NOTES

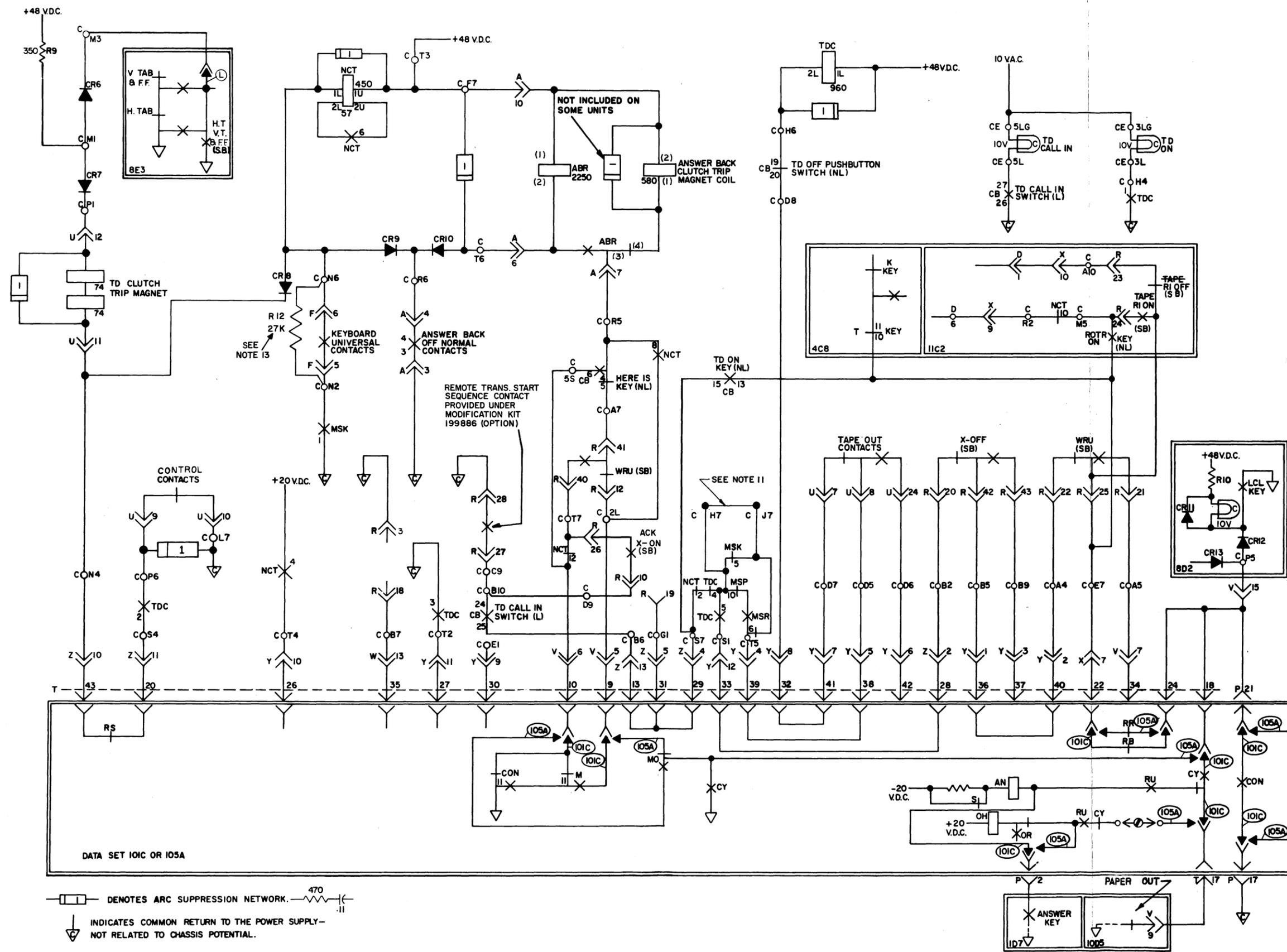
# FS-14 TD AND ANSWER BACK CONTROL CIRCUITS

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

## 8226 WD

### REVISIONS

ISSUE	DATE	AUTH. NO.
1	12-21-66	18120-R
2	2-23-67	93280
3	4-12-67	93156
4	6-29-67	94201
5	8-23-67	94324-B



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

SHEET 6

DETACHED SCHEMATIC  
WIRING DIAGRAM  
FOR  
TELETYPEWRITER SETS  
(ASR)  
VSL347, 348, 349, 350

APPROVALS	
D AND R <i>[Signature]</i>	E OF M <i>[Signature]</i>
E-NUMBER	
PROD. NO. 8226WD	
DATE 9-30-66	
P.D. FILE NO. G-A151.219A	
DRAWN	CHKD. <i>[Signature]</i>
ENGD. R.H.L.	APPD. <i>[Signature]</i>

**TELETYPE CORPORATION**

## 8226 WD

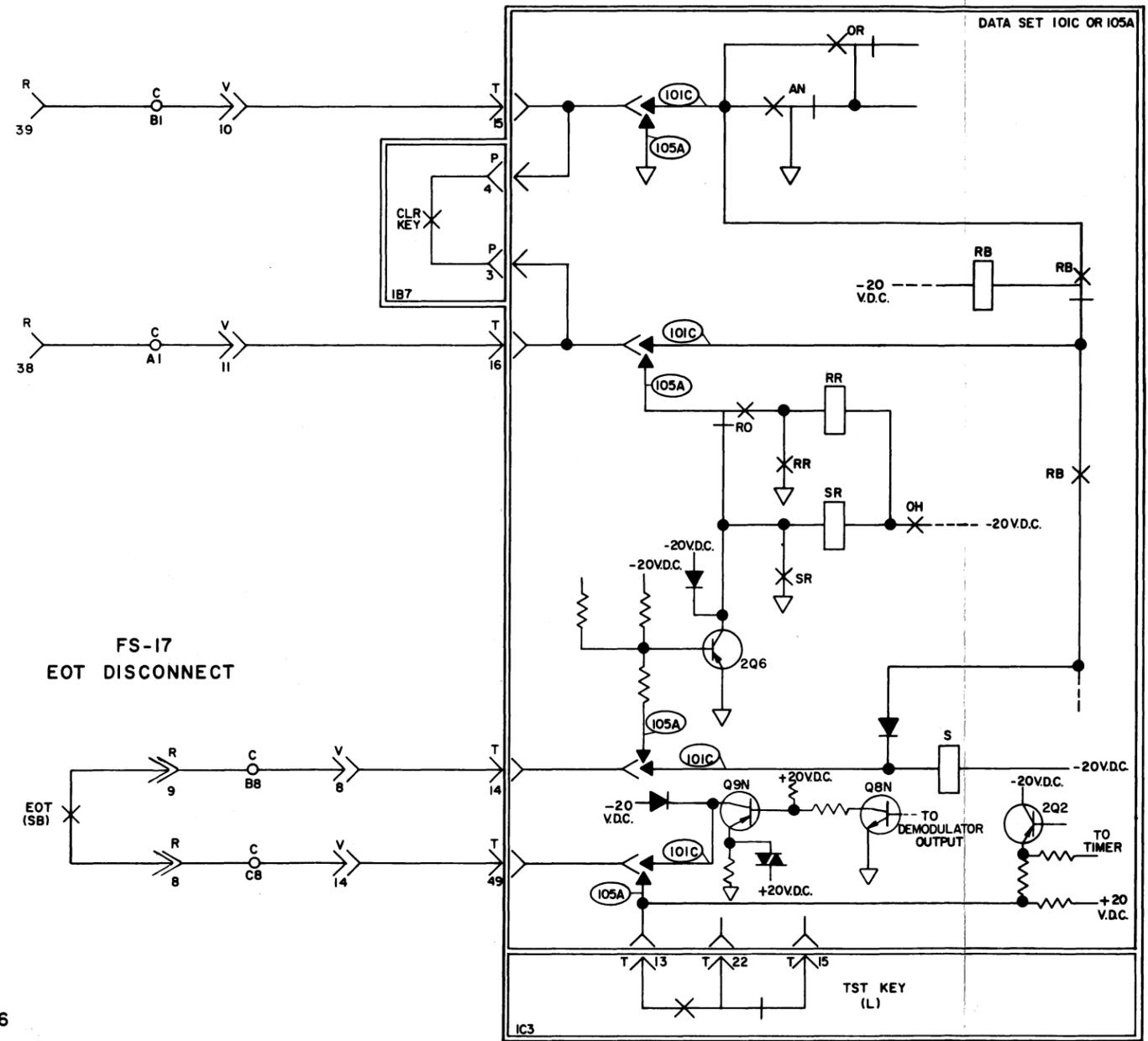
SEE CONTROL SHEET I FOR NOTES

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

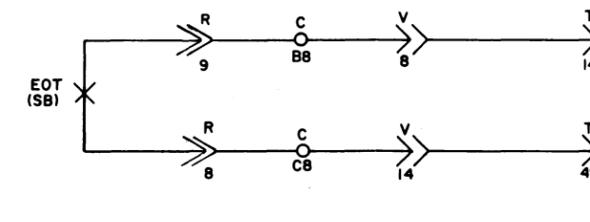
# 8226 WD

## REVISIONS

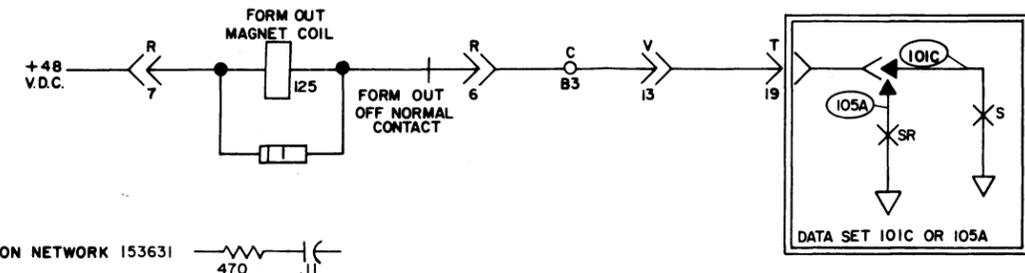
ISSUE	DATE	AUTH. NO.
1	12-21-66	18120-R
2	4-12-67	93156
3	6-10-68	95947



FS-17  
EOT DISCONNECT



FS-16  
FORM-OUT MAGNET



— [Symbol] — DENOTES ARC SUPPRESSION NETWORK 153631 — [Symbol] — 470 .11

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

SHEET 7  
DETACHED SCHEMATIC  
WIRING DIAGRAM  
FOR  
TELETYPEWRITER SETS  
(ASR)  
VSL347, 348, 349, 350

APPROVALS	
D AND R	E OF M
E-NUMBER	
PROD. NO. 8226WD	
DATE 9-30-66	
R.D. FILE NO. G-A151.219A	
DRAWN	CHKD. <i>del</i>
ENGD. R.H.L.	APPD. <i>RRS</i>
TELETYPE CORPORATION	

# 8226 WD



SEE CONTROL SHEET I FOR NOTES

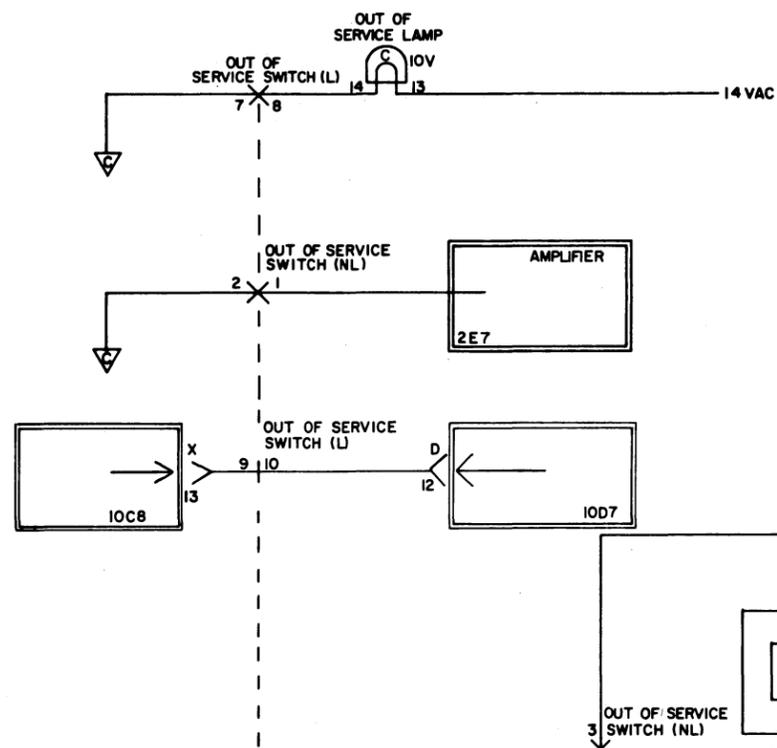
NOTE:  
REVISION INFORMATION MUST  
ALSO BE REFLECTED ON THE  
ISSUE CONTROL RECORD, WHICH  
IS A PART OF THIS DRAWING.

8226 WD

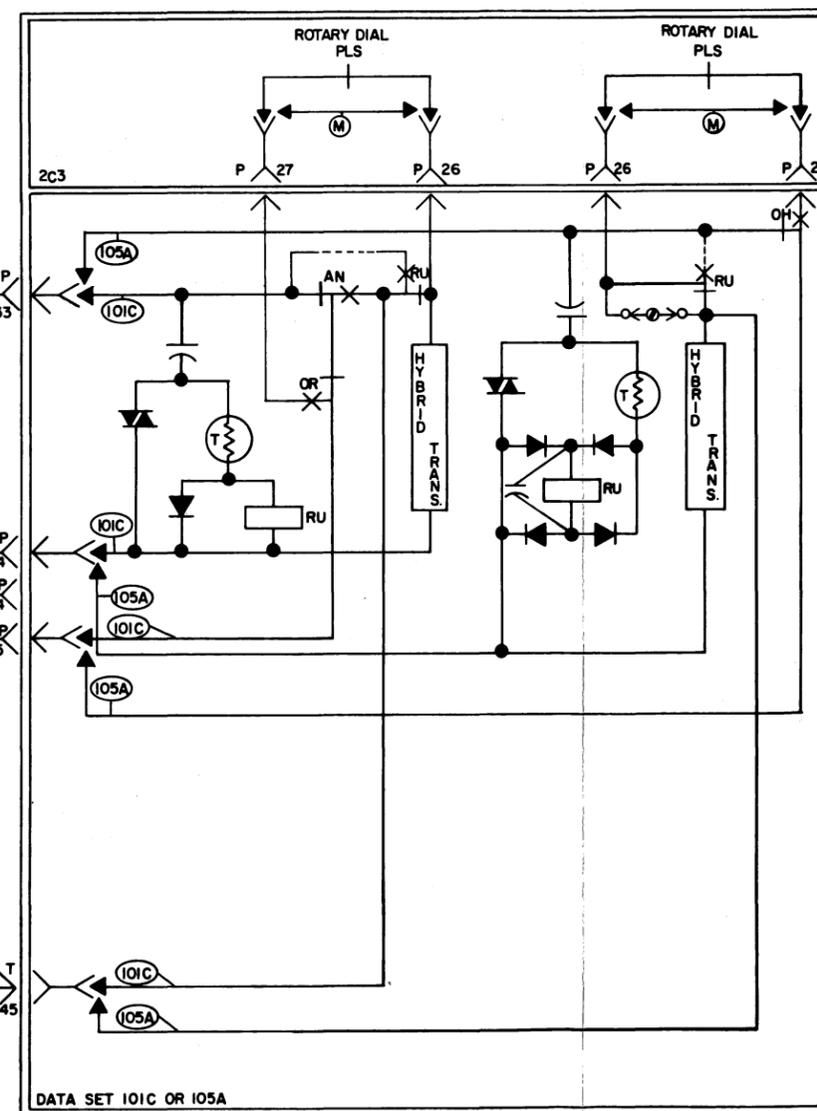
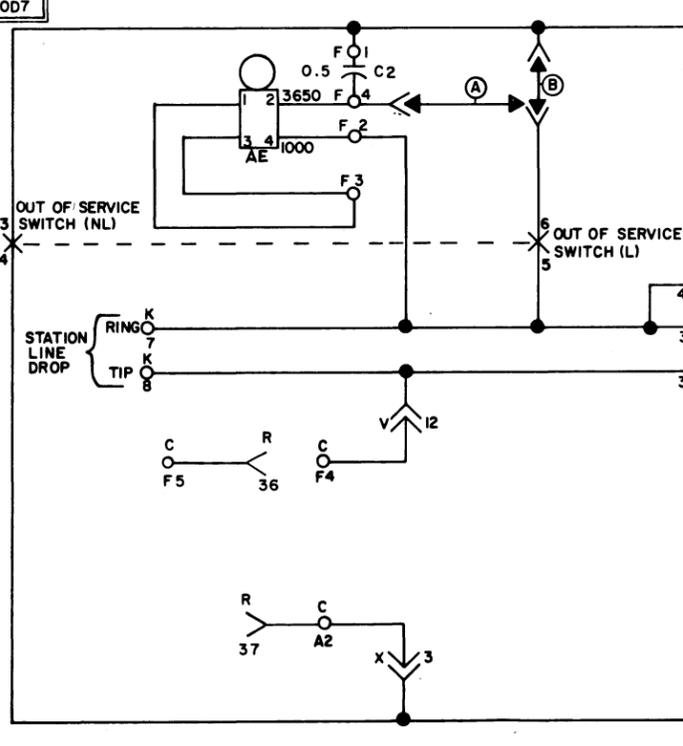
REVISIONS

ISSUE	DATE	AUTH. NO.
1	12-21-66	18120-R
2	4-12-67	93156

FS-20  
OUT OF SERVICE  
(INDICATOR)



FS-21  
RINGER CIRCUIT  
& OFF HOOK CIRCUIT



OUT OF SERVICE IS A THREE POSITION TWIST UNIT.  
NORMAL - AS SHOWN  
LOCKING - CCW TWIST FROM NORMAL  
NON-LOCKING - CW TWIST FROM NORMAL.

↓ INDICATES COMMON RETURN TO THE POWER SUPPLY-  
NOT RELATED TO CHASSIS POTENTIAL.

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

SHEET 9

DETACHED SCHEMATIC  
WIRING DIAGRAM  
FOR  
TELETYPEWRITER SETS  
(ASR)  
VSL347, 348, 349, 350

APPROVALS

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

E-NUMBER

PROD. NO. 8226WD

DATE 9-30-66

P.D. FILE NO. G-A151.219A

DRAWN *[Signature]* CHKD. *[Signature]*  
ENGD. R.H.L. APPD. *RRS*

TELETYPE  
CORPORATION

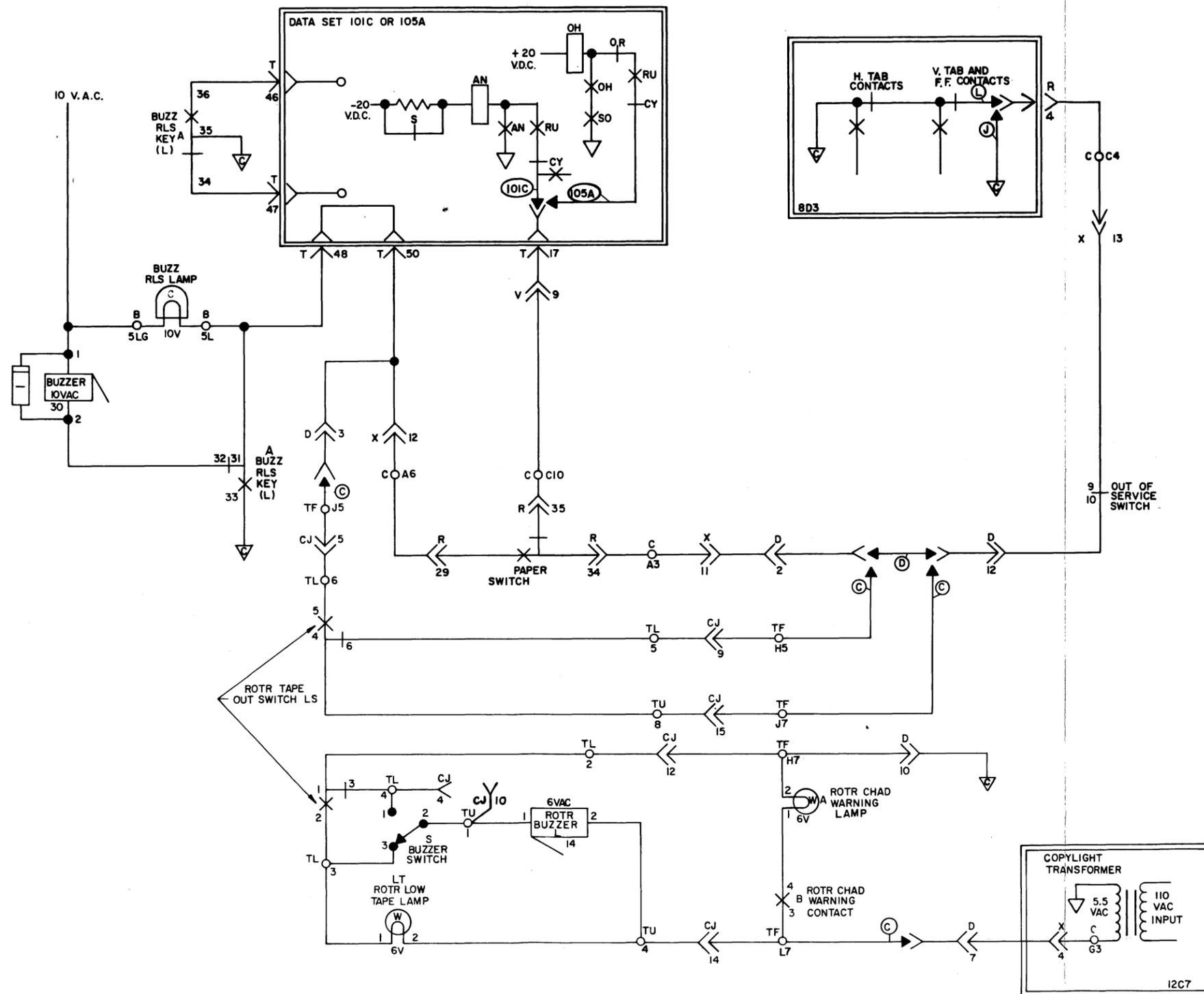
8226 WD

### FS-22 PAPER ALARM

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

# 8226 WD

REVISIONS		
ISSUE	DATE	AUTH. NO.
1	12-21-66	18120-R
2	4-12-67	93156



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

SHEET 10

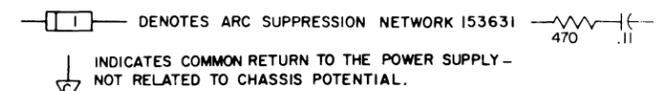
DETACHED SCHEMATIC  
WIRING DIAGRAM  
FOR  
TELETYPEWRITER SETS  
(ASR)  
VSL347, 348, 349, 350

APPROVALS	
D AND R	E OF M
E-NUMBER	
PROD. NO. 8226WD	
DATE 9-30-66	
P.D. FILE NO. G-A151.213A	
DRAWN	CHKD. <i>TR</i>
ENGD. R.H.L.	APPD. <i>RRS</i>

TELETYPE  
CORPORATION

# 8226 WD

ROTAR TAPE OUT SWITCH CONTACTS ARE SHOWN WITH FULL TAPE ROLL.





SEE CONTROL SHEET I FOR NOTES

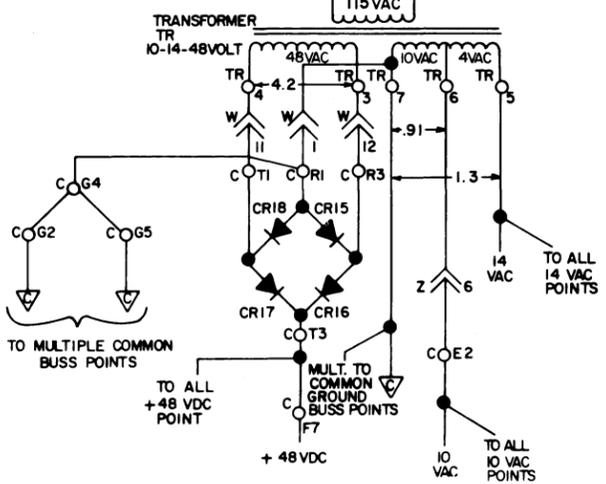
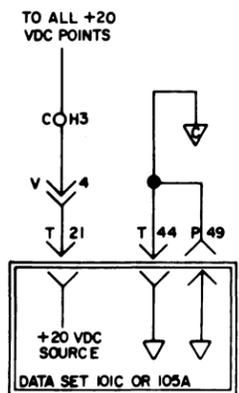
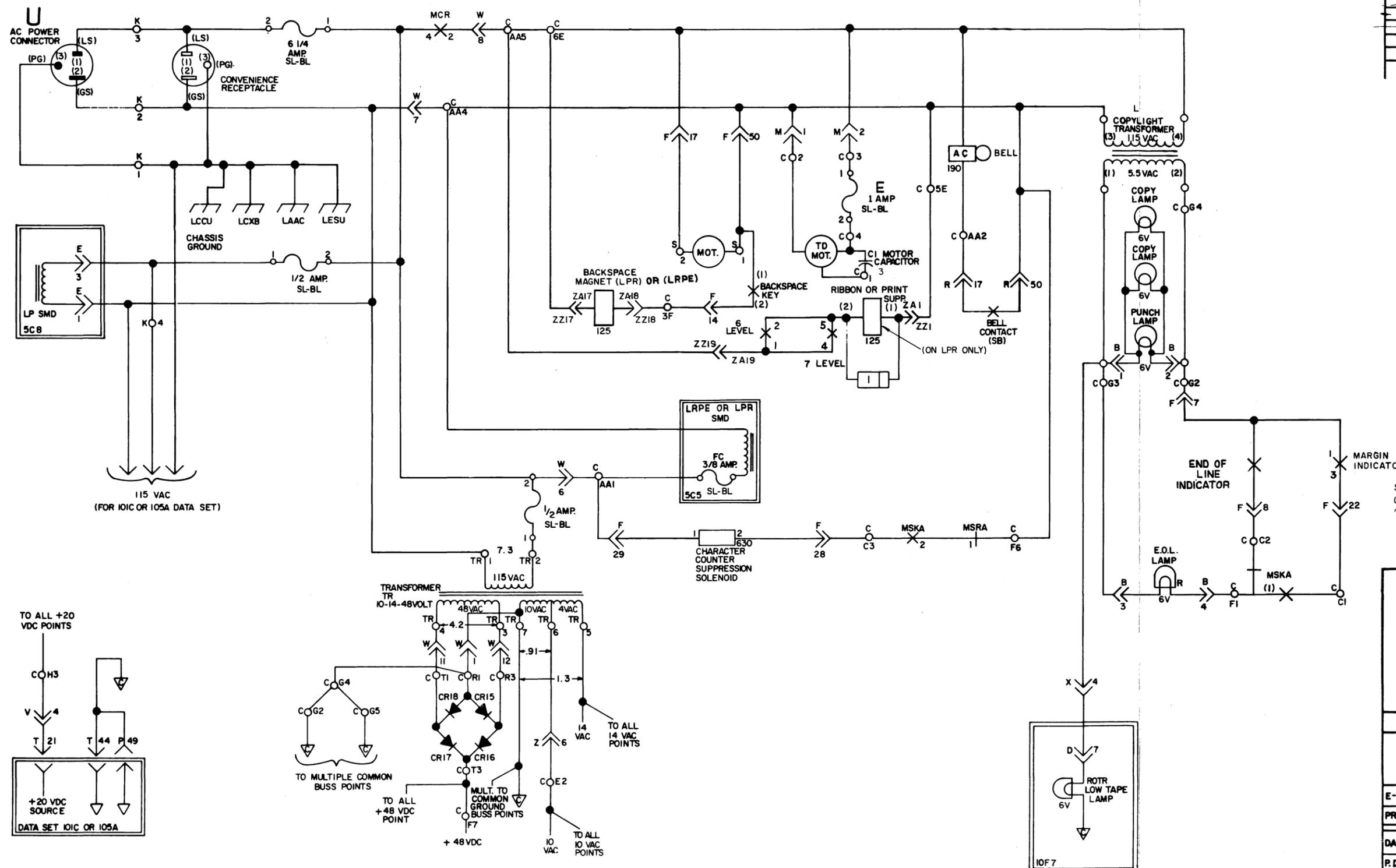
# FS-24 POWER AND CABINET CIRCUITS

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

## 8226 WD

### REVISIONS

ISSUE	DATE	AUTH. NO.
1	12-21-66	18120-R
2	4-12-67	93156
3	10-31-67	94721-D



↓ INDICATES COMMON RETURN TO THE POWER SUPPLY - NOT RELATED TO CHASSIS POTENTIAL.

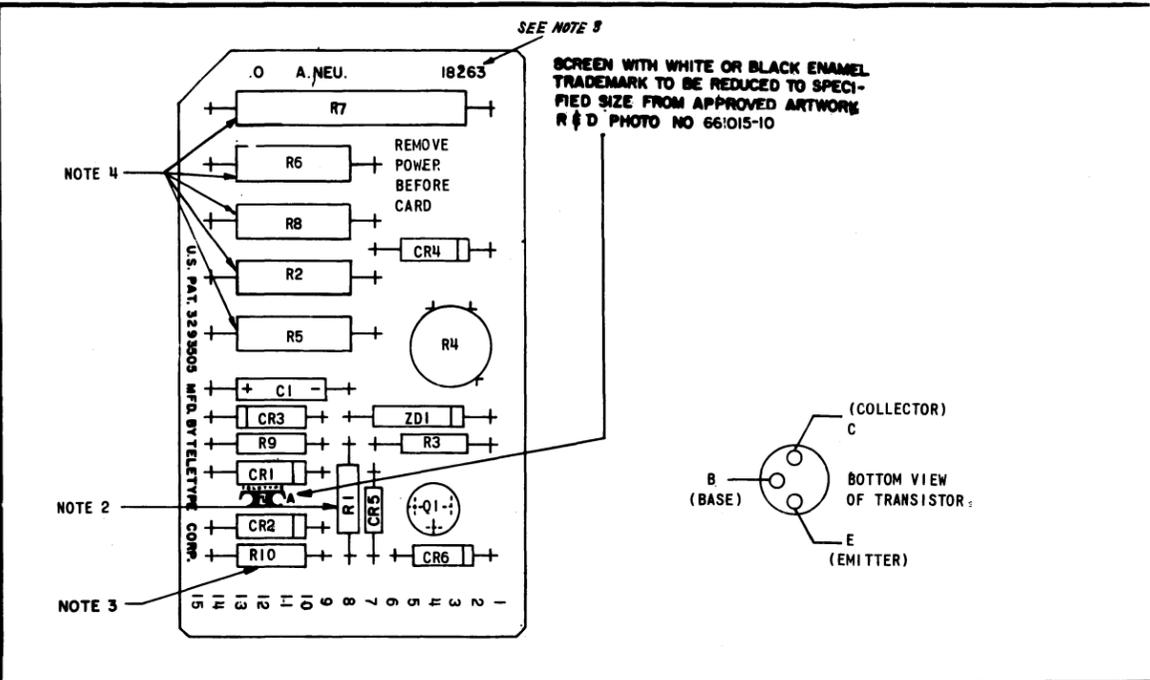
SEE ISSUE CONTROL RECORD FOR COMPLETE LIST OF SHEETS COMPRISING THIS W.D.

SHEET 12  
DETACHED SCHEMATIC WIRING DIAGRAM FOR TELETYPEWRITER SETS (ASR) VSL347, 348, 349, 350

APPROVALS  
D AND R: [Signature]  
E OF M: [Signature]  
E-NUMBER: [Blank]  
PROD. NO.: 8226WD  
DATE: 9-30-66  
P.D. FILE NO.: G-A151.219A  
DRAWN: [Signature] CHKD: [Signature]  
ENGD.: R.H.L. APPD.: RRS

TELETYPE CORPORATION  
**8226 WD**

NO.	NOTES
1.	REFER TO 5906WD FOR CARD MARKING INFORMATION.
2.	THE SELECTION OF THIS RESISTOR DEPENDS ON THE APPLICATION IN WHICH THE DRIVER IS TO BE USED.
3.	R10 IS USED ON 182630 ASSEMBLY ONLY.
4.	RAISE R2,5,6,7,8 1/32 TO 1/16 ABOVE CIRCUIT CARD.
5.	THE 39603RM STRAP IS USED ON THE 182631 AND 182632 ASSEMBLIES
6.	SEE 5983WD FOR APPROPRIATE POWER INPUT.
7.	DIODE CR6 WAS ADDED TO PROTECT Q1 FROM DESTRUCTION BY ACCIDENTAL GROUNDING OF THE COLLECTOR OF Q2. 181653 DIODE WAS USED FIRST BUT CHANGED TO 199442 TO REDUCE "LEAKAGE" CURRENT DURING SPACING PULSES.
8.	.020 A NEU 182630 .060 A NEU 182631 .040A NEU 182632



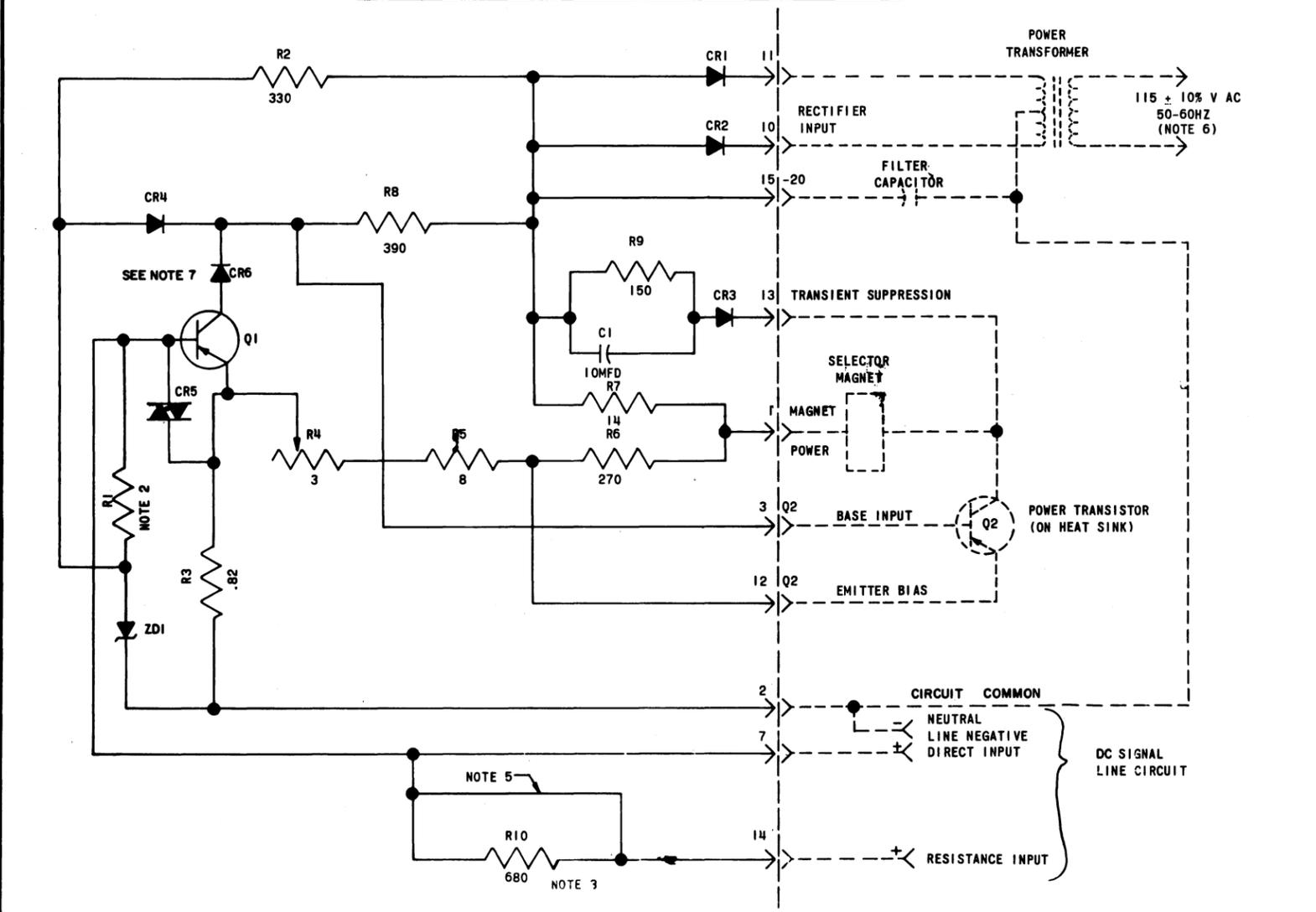
CIRCUIT CARD ASSEMBLY						
REF. DESIG.	TELETYPE PART NO.	TOTAL QTY.	NAME & DESIGNATION	LOCATING FUNCTION	USED ON	FOR
R1	182779	1	RESISTOR 420 OHMS 1/2W	.010 AMP. SWITCHING	182630	.020A NEUTRAL LINE
"	182797	1	RESISTOR 135 OHMS 1/2W	.030 AMP. SWITCHING	182631	.060A " "
"	182180	1	RESISTOR 200 OHMS 1/2W	.020 AMP. SWITCHING	182632	.040A " "
R10	182777	1	RESISTOR 680 OHMS 1/2W	INPUT CURRENT LIMITING	182630	DATA SET OPERATION
R10	39603RM	1	STRAP	.030 AMP. SWITCHING	182631	.060A NEUTRAL LINE
R10	39603RM	1	STRAP	.020 AMP. SWITCHING	182632	.040A " "
R2	181669	1	RESISTOR 330 OHMS 2 1/2W	ZENER CURRENT LIMITING		
R3	182778	1	RESISTOR 0.82 OHM 1/2W	COMMON EMITTER BIAS		
R4	182773	1	RHEOSTAT 3 OHMS 2 1/2W	OUTPUT CURRENT ADJUST		
R5	181717	1	RESISTOR 8 OHMS 5W	Q2 EMITTER BIAS		
R6	182770	1	RESISTOR 270 OHMS 4W	Q2 EMITTER BIAS		
R7	182772	1	RESISTOR 14 OHMS 10W	Q2 COLLECTOR LOAD		
R8	182627	1	RESISTOR 390 OHMS 4 W	Q1 COLLECTOR LOAD		
R9	182776	1	RESISTOR 150 OHMS 1/2 W	Q2 COLLECTOR LOAD		
CR1	182520	2	DIODE 1N3193	POWER RECTIFIER		
CR2	182520	2	SAME AS CR1	POWER RECTIFIER		
CR3	181619	2	DIODE 1N482	COLLECTOR TRANSIENT LIMITING		
CR4	181619	1	SAME AS CR3	VOLTAGE CLAMPING		
CR5	178844	1	VARIATOR 100A	INPUT PROTECTION		
CR6	199442	1	DIODE, 1N270	SEE NOTE 7		
ZD1	182774	1	DIODE, ZENER 4.7V 5% 1W.	REFERENCE		
C1	182628	1	CAPACITOR, 10 MFD, 25WVDC	COLLECTOR TRANSIENT LIMITING		
Q1	181671	1	TRANSISTOR, HIGH GAIN	INPUT SWITCH		
EC	182775	1	CIRCUIT BOARD, ETCHED			

### 182630-35

#### REVISIONS

ISSUE	DATE	AUTH. NO.
2	8-8-62	30-1259
3	11-27-62	30-5388
4	12-17-62	30-5445
5	1-23-63	30-5580
6	3-20-64	81340
7	5-21-64	81761
8	4-26-65	86507
9	6-10-65	86507-2
10	9-19-66	88816
11	10-25-66	88816-1
12	12-14-66	92190
13	2-7-67	93101
14	5-3-67	93502
15	6-20-68	19358-R
16	7-9-68	95948
17	12-20-68	98266

### CONSTANT CURRENT .500 SELECTOR MAGNET DRIVER



#### CIRCUIT DESCRIPTION

THE SELECTOR MAGNET DRIVER CIRCUIT IS POWERED FROM A SOURCE OF 117 VOLT ALTERNATING CURRENT THROUGH A STEP DOWN ISOLATION TRANSFORMER. DIODES CR1 AND CR2 PROVIDE FULL WAVE RECTIFICATION OF THE REDUCED VOLTAGE TO -20 VOLTS DC AT TERMINAL 15. THE CIRCUIT COMMON IS CONNECTED TO TERMINAL 2 AND A POWER SUPPLY FILTER CAPACITOR IS CONNECTED BETWEEN TERMINALS 2 AND 15.

THE DIRECT CURRENT SIGNAL LINE CIRCUIT IS CONNECTED THROUGH TERMINALS 7 AND 2. WITH AN ALTERNATE CONNECTION THROUGH R10 AT TERMINAL 14 PROVIDING A CURRENT LIMITING FUNCTION.

IN THE MARKING CONDITION, Q1 IS OFF-BIASED. WITH Q1 OFF, THE BASE OF Q2 WILL BE CLAMPED AT THE ZENER REFERENCE VOLTAGE BY DIODE CR4. THIS VOLTAGE CLAMP IS THEN TRANSLATED TO CURRENT REGULATION BY THE TRANSISTOR ACTION OF Q2. THE REGULATED MAGNET CURRENT IS ADJUSTED TO .500 AMPERES BY RHEOSTAT R4.

WITH THE SIGNAL LINE IN THE OPEN OR SPACING CONDITION, Q1 IS TURNED ON BY BASE CURRENT SUPPLIED THROUGH RESISTOR R1. THE POTENTIAL AT THE COLLECTOR OF Q1 WILL BE NEAR ZERO. OFF-BIASING Q2. WITH Q2 OFF, NO SELECTOR MAGNET CURRENT FLOWS, ALLOWING THE MAGNET TO RELEASE. DURING THE TURN OFF OF Q2 THE INDUCTIVE TRANSIENT DEVELOPED AT THE COLLECTOR IS SUPPRESSED BY THE NETWORK CONSISTING OF CR3, R9, AND C1.

"SNAP-ACTION" IS SUPPLIED TO THE CIRCUIT TRANSITIONS BY FEEDBACK IN THE EMITTER CIRCUITS OF TRANSISTORS Q1 AND Q2.

#### APPROVALS

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

PROD. NO. 182630-35

DATE 6-2-62

R.D. FILE NO. 30-158AAA

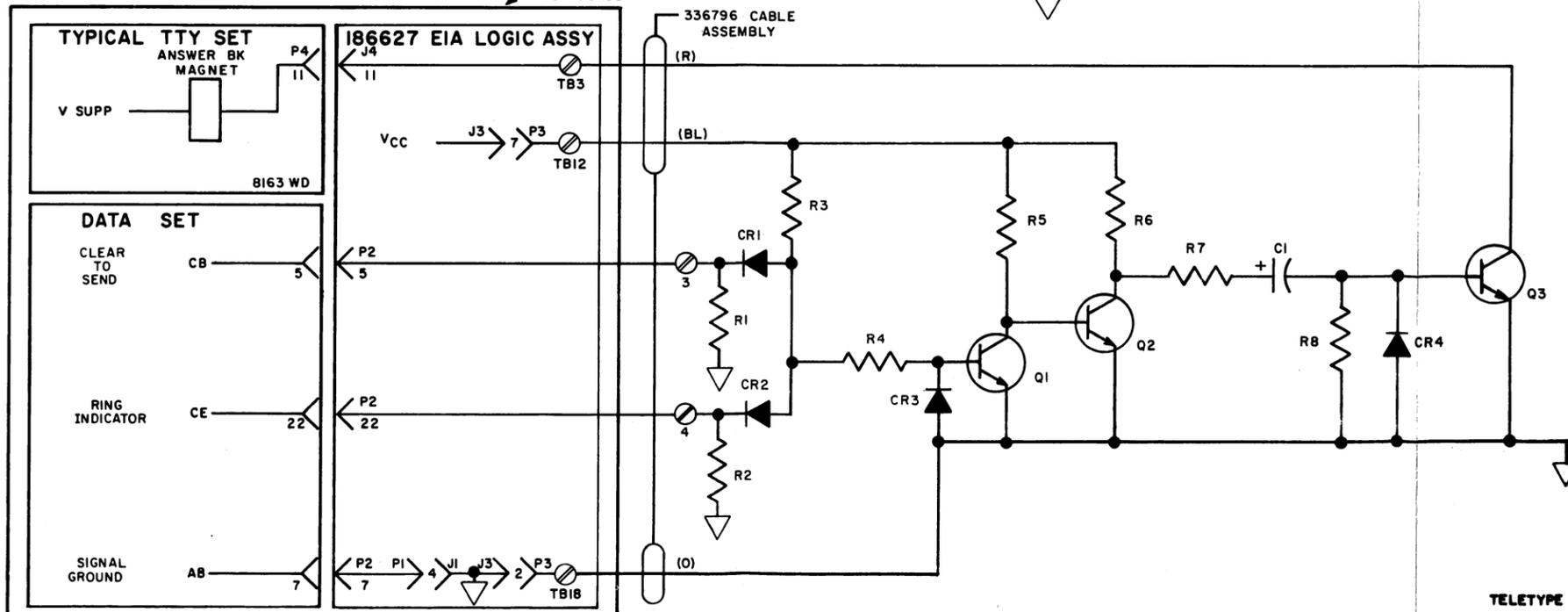
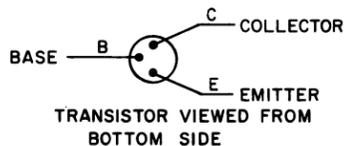
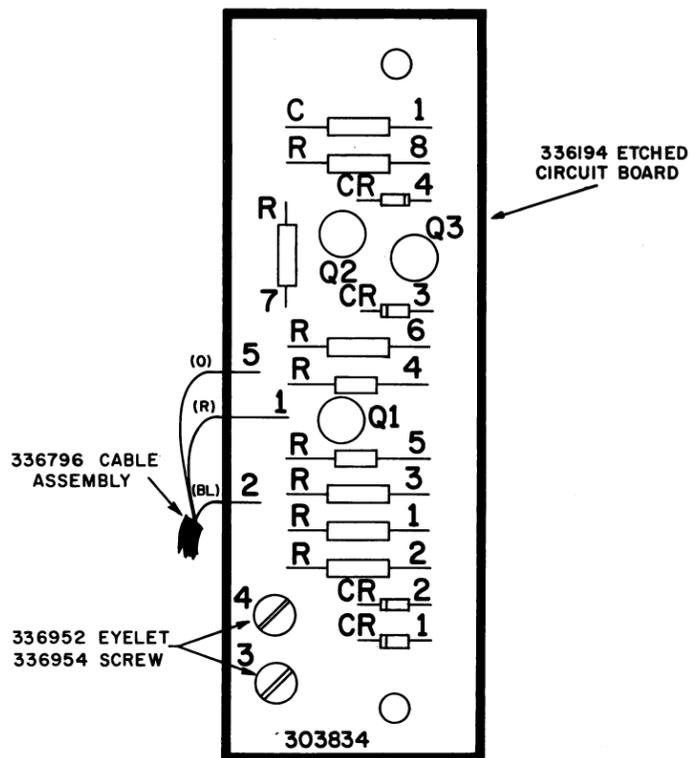
DRAWN E.R. REG	CHKD.
ENGD. R.J.M.	APPD.

### TELETYPE CORPORATION

# 182630-35

REF. DESIG.	PART NO. REQ.	QTY	DESCRIPTION
R1,R2	118186	2	RESISTOR, 5.6K±5% 1/2W
R3	118720	1	RESISTOR, 100K±5% 1/2W
R4	320275	1	RESISTOR, 10K±5% 1/4W
R5	318801	1	RESISTOR, 47K±5% 1/4W
R6	118144	1	RESISTOR, 2.7K±5% 1/2W
R7	143661	1	RESISTOR, 330±5% 1/2W
R8	118180	1	RESISTOR, 10K±5% 1/2W
CR1,CR2	197464	2	DIODE,
CR3	171602	1	DIODE
CR4	197464	1	SAME AS CR1
C1	333730	1	CAPACITOR, 22MFD±10% 35V
Q1,Q2	315930	2	TRANSISTOR, 2N3568
Q3	321166	1	TRANSISTOR, 2N1893
	336194	1	ETCHED CIRCUIT BOARD
	336796	1	CABLE ASSEMBLY
	336952	2	EYELETS, THREADED
	336954	2	SCREWS

- NOTES:
- MANUFACTURE PER MR 2001
  - PRINTING SCREEN TO BE MADE FROM MASTER ARTWORK# 303834 AW. ARTWORK AVAILABLE IN R&D OFFICE SERVICE SECTION.
  - ASSEMBLE TAPPED EYELETS FROM COMPONENT SIDE OF CARD.



ANSWER BACK TRIP MAGNET DRIVER

THE TRIP MAGNET DRIVER CARD PROVIDES A TIMED ( 8 TO 350 MS ), 350 MA (MAXIMUM) PATH THROUGH THE ANSWER BACK TRIP MAGNET TO GROUND. (TERMINAL 1) IN RESPONSE TO THE SIMULTANEOUS APPLICATION OF TWO EIA "ON" VOLTAGES (+3V TO +25V) AT INPUT TERMINALS 3 AND 4. (THE SIMULTANEOUS "ON" VOLTAGE INPUT DURATION MUST EXCEED 350 MS.)

THE CIRCUIT OPERATION IS STRAIGHTFORWARD. AN "OFF" INPUT (-3V TO -25V) ON EITHER TERMINAL 3 OR 4 WILL REVERSE BIAS THE Q1 EMITTER BASE JUNCTION HOLDING Q1 OFF. TRANSISTOR Q2, WILL BE "ON" AND C1 (GROUNDED AT BOTH SIDES) IS UNCHARGED. THE SIMULTANEOUS APPLICATION OF TWO "ON" VOLTAGE TURNS ON Q1, TURNING OFF Q2 AND ALLOWING C1 TO CHARGE. THE C1 CHARGING CURRENT (THROUGH THE BASE EMITTER JUNCTION OF Q3, R6, AND R7) WILL TURN ON Q3 HOLDING IT ON LONG ENOUGH TO ASSURE TRIPPING THE ANSWER BACK MAGNET, BUT NOT SO LONG AS TO CAUSE DOUBLE TRIPPING. THE RETURN TO THE OFF STATE OF EITHER INPUT WILL TURN ON Q2 DISCHARGING C1 THROUGH R7, Q2 AND CR4. (DISCHARGE TIME IS APPROXIMATELY 35 MS.)

INPUT / OUTPUT REQUIREMENTS (SEE TEST CIRCUIT)

INPUT REQUIREMENTS			
STATE	TERM	VOLTAGE	DURATION
"ON"	3 AND 4	+3 < V < +25	T > 350 MS
"OFF"	3 OR 4	-3 < V < -25	T > 50 MS

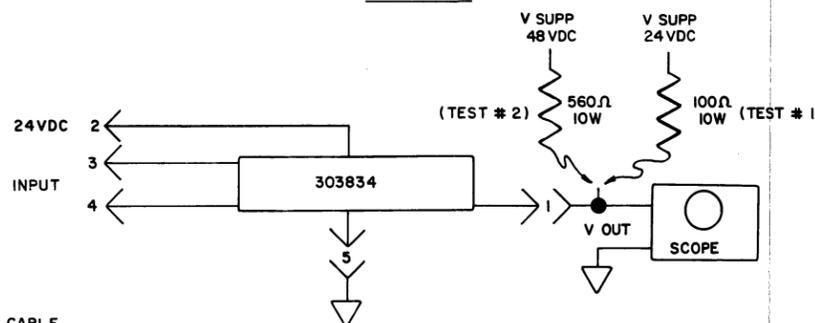
OUTPUT REQUIREMENTS			
STATE	TERM	VOLTAGE	DURATION
"ON"	1	V OUT < .5V	8 MS < T < 350 MS
"OFF"	1	V OUT = V SUPP	

POWER REQUIREMENTS

V<sub>CC</sub> - 20 VDC MIN., 33 VDC MAX.  
500 MW MAX.

V SUPP - 60VDC MAX., 120MA  
30VDC MAX., 350MA

TEST CIRCUIT



ORIGINAL USE  
186627 M33/35 FINAL  
336192 DIRECT

REVISIONS		
ISSUE	DATE	AUTH. NO.
1	2-17-70	20632-R

CIRCUIT CARD  
MC834  
303834  
CIRCUIT CARD  
ASSEMBLY

APPROVALS		
PROJ. SUPV.	PROJ. DIR.	MFG. REL. COMPL.
ENGR. R.L.C.	DSGHR. R.L.C.	
DRN. R.A.P.	DATE 12-16-69	
S-NUMBER	61,756	
SD-CD NO.		
R & D FILE	3-A132AA	



303834