

WIRING DIAGRAM PACKAGE FOR MODEL 33 PRIVATE LINE SETS (SEE NOTE BELOW)

WDP 0033

DRAWING NO.	SHEET NO.	DESCRIPTION	ISSUE NUMBER																															
			31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60		
6353WD	1	SCHEMATIC FOR MODEL 33 ASR-KSR-RO FOR DC SIGNAL LINE	29	30	30	30	31																											
6353WD	2	SCHEMATIC FOR MODEL 33 ASR-KSR-RO FOR DC SIGNAL LINE	23	23	23	23	23																											
6353WD	3	SCHEMATIC FOR MODEL 33 ASR-KSR-RO FOR DC SIGNAL LINE	24	24	24	24	24																											
6353WD	4	SCHEMATIC FOR MODEL 33 ASR-KSR-RO FOR DC SIGNAL LINE	23	24	24	24	24																											
6353WD	5	SCHEMATIC FOR MODEL 33 ASR-KSR-RO FOR DC SIGNAL LINE	25	26	26	26	26																											
6353WD	I.C.	SCHEMATIC FOR MODEL 33 ASR-KSR-RO FOR DC SIGNAL LINE	15	16	16	16	17																											
6354WD	1	ACTUAL FOR MODEL 33 ASR-KSR-RO FOR DC SIGNAL LINE	29	29	29	29	30																											
6354WD	2	ACTUAL FOR MODEL 33 ASR-KSR-RO FOR DC SIGNAL LINE	26	27	27	27	27																											
6354WD	3	ACTUAL FOR MODEL 33 ASR-KSR-RO FOR DC SIGNAL LINE	26	26	26	26	26																											
6354WD	4	ACTUAL FOR MODEL 33 ASR-KSR-RO FOR DC SIGNAL LINE	10	10	10	10	10																											
6354WD	5	ACTUAL FOR MODEL 33 ASR-KSR-RO FOR DC SIGNAL LINE	11	11	11	11	11																											
6354WD	I.C.	ACTUAL FOR MODEL 33 ASR-KSR-RO FOR DC SIGNAL LINE	24	25	25	25	26																											
181821	-	CIRCUIT CARD 500 MA SMD	9	9	10	10	10																											
182630 - 35	-	CIRCUIT CARD 500 MA SMD	17	17	17	17	17A	17A																										
183079	-	CIRCUIT CARD, AUTO READER POWER PACK	9	9	9	9	9A	9A																										
183087	-	CIRCUIT CARD, MANUAL READER POWER PACK	10	10	11	11	11																											
NOTE:	THIS WDP COVERS THE FOLLOWING MODEL 33 SETS:																																	
	33TA, TA/I, TB, TB/I, TC, TC/I, TS, TU, TZ, TAB, TAC,																																	
	TAF, TAH, TAJ, TAY, TAZ, TBH, 1BZ, TCA, TDG, TDJ, TDK,																																	
	TDM, TER																																	
TELETYPE CORPORATION	18461R	NOTE : THE LAST COMPLETED COLUMN INDICATES THE LATEST ISSUE NUMBER OF WDP.																																
		SHEET 1 OF 1																																

**TELETYPE  
CORPORATION**

1846

NOTE : THE LAST COMPLETED COLUMN INDICATES THE LATEST ISSUE NUMBER OF WDP.

SHEET 1 OF 1

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

6353WD

REVISIONS

ISSUE	DATE	AUTH. NO.
2	11-20-63	79266
3	1-8-64	79934
4	4-9-64	81640
5	6-9-64	81773
6	11-27-64	84602
7	2-15-65	84599-1
8	3-15-65	85643
9	8-6-65	86293
10	10-15-65	88983
11	12-17-65	89007
12	1-13-66	88841-3
13	2-1-66	90357
14	3-9-66	89721-2
15	3-29-66	90790
16	5-2-66	90374
17	5-10-66	20360
18	10-12-66	90771
19	10-19-66	9218
20	12-28-66	92952
21	5-26-67	94003
22	8-23-67	94C03-1D
23	8-24-67	94780-1
24	1-16-68	94970
25	1-24-68	96776
26	4-16-69	99079
27	5-20-69	99243
28	9-9-69	99474
29	7-29-70	99957
30	1-22-71	419
31	5-14-71	2787

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

SHEET 1

WDP

SCHEMATIC  
WIRING DIAGRAM  
FOR  
MODEL 33  
ASR,KSR,RO  
DC SIGNAL LINE

APPROVALS

D AND R E OF M

E-NUMBER

PROD. NO. 6353 WD

DATE 4-24-67

P.D. FILE NO. 2-30 152/153AA

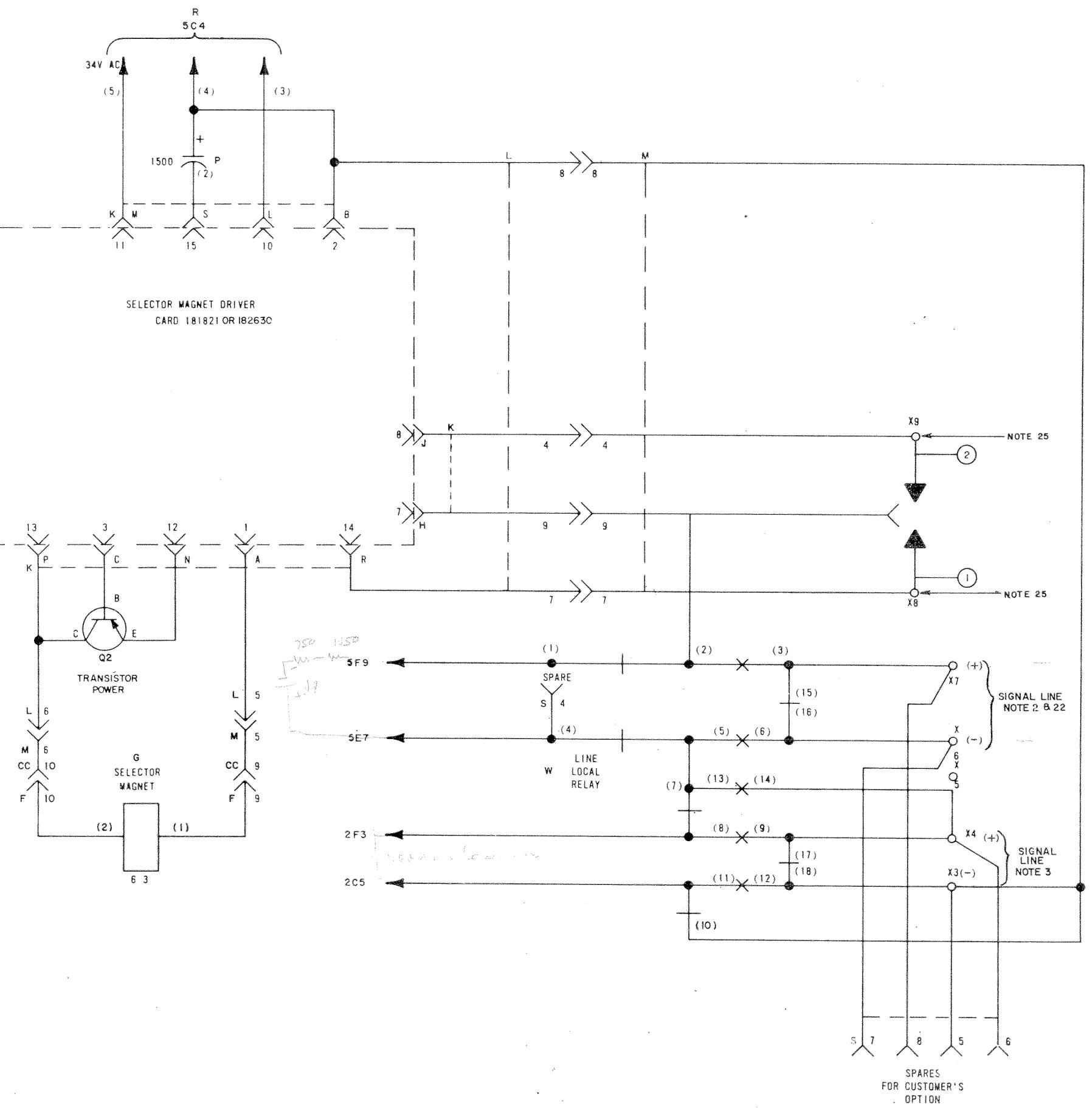
DRAWN JER. CHKD.

ENGD. A.S. APPD.

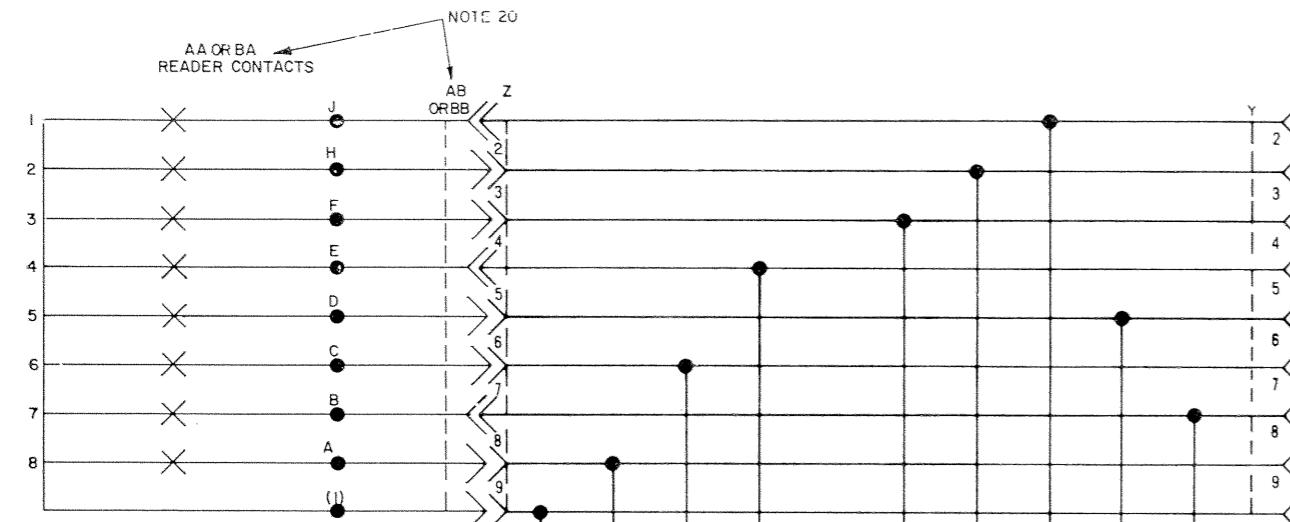
TELETYPE  
CORPORATION

6353WD

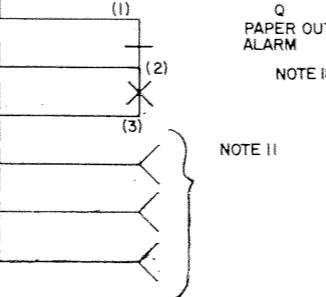
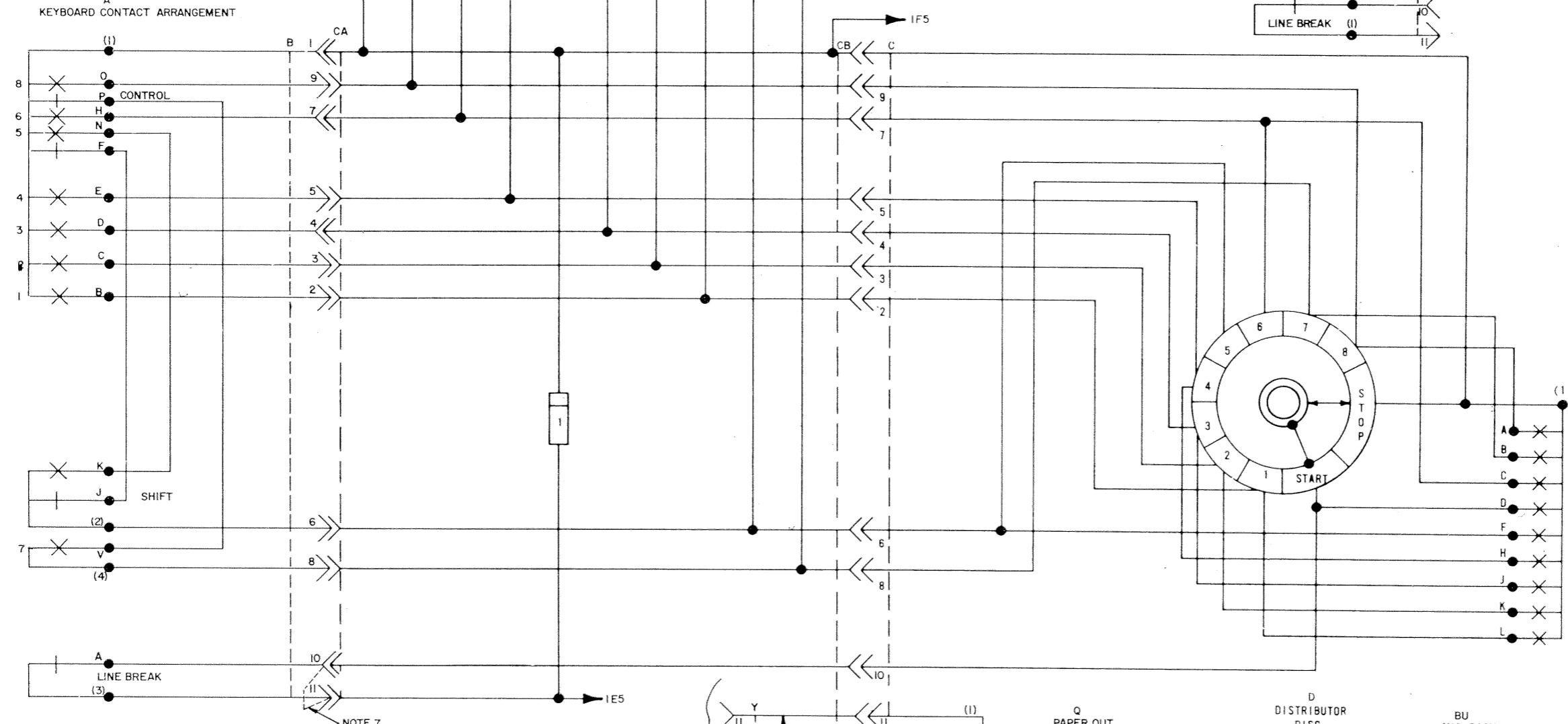
NO	NOTES
1.	FOR ACTUAL WIRING DIAGRAM SEE 6354WD.
2.	THE SET IS SHOWN WIRED FOR SIMPLEX .060 AMP. NEUTRAL SIGNAL LINE ON TERMINALS 6 AND 7 OF THE 151411 TERM. STRIP. FOR .020 AMP. NEUTRAL SIGNAL LINE MOVE THE P WIRE FROM TERMINAL 8 TO TERMINAL 9 OF THE 151411 TERMINAL STRIP. ALSO MOVE THE BL WIRE FROM TERMINAL 3 OF THE POWER RESISTOR 181816 TO TERMINAL 4.
3.	FOR FULL DUPLEX OPERATION CONNECT THE SEND SIGNAL LINE TO TERMINAL 4 AND 3 OF THE 151411 TERMINAL STRIP. MOVE THE W-BL WIRE FROM TERMINAL 4 TO 5 AND THE BR-Y WIRE FROM TERMINAL 3 TO 5 ON THE 151411 TERMINAL STRIP.
4.	ON KSR SETS ALL ASSOCIATED READER WIRING IS NOT USED.
5.	ALL CAPACITANCE VALUES IN MICROFARADS UNLESS OTHERWISE SPECIFIED..
6.	ALL RESISTORS 1/2 WATT AND RESISTANCE VALUES IN OHMS UNLESS OTHERWISE SPECIFIED.
7.	ON RO SETS USE 181838 PLUG ASSEMBLY.
8.	THESE CONNECTIONS ARE MADE AS OPTIONS BY THE CUSTOMER AND OR THE FACTORY.
9.	.060 AMP. SIGNAL LINE OPTION ① .020 AMP. SIGNAL LINE OPTION ②
10.	THIS IS AN 8 LEVEL UNIT.
11.	THESE WIRES ARE IN THE DISTRIBUTOR CABLE AS SPARES. IF NOTE 19 APPLIES TAPE AND TIE BACK THESE WIRES.
12.	THIS FUSE NOT INCLUDED ON SOME SETS. FUSE VALUES ARE AS FOLLOWS:
	TRANSFORMER FUSE PART NO. 181879 1/2 AMP. SL-BL 117176 182657 8/10 AMP. SL-BL 162360 186651 1/2 AMP. SL-BL 117176
13.	WIRING SHOWN AS KA IS FOR EVEN PARITY KEYBOARDS.
14.	FURNISH 115V AC ± 10%, 60 Hz EXCEPT 50 Hz ON 33TAB, TAH KSR SETS, 33TAC, TAJ, TBP, TDK, TDM, TES, ASR SETS AND 33TBM RO SETS.
15.	APPROPRIATE FUSE IN 182182 FUSEHOLDER NOT INCLUDED IN EARLY SETS.
	FUSE FUSE MOTOR VALUE PART NO. 182241 2.0 AMPS. 138538 182267 1.8 AMPS. 320246
16.	NETWORK 153631 — I — 470 0.11 —
17.	60 CYCLE READER TRIP COIL RESISTANCE IS 630Ω, 50/60 CYCLE READER TRIP COIL RESISTANCE CHANGED FROM 630Ω TO 780Ω FOR IMPROVED 50 CYCLE OPERATION.
18.	LOW PAPER ALARM CONTACTS NOT FOUND IN ALL UNITS. CONTACT RATING 4 AMP. AT 30V D.C.
19.	TO CUSTOMER SUPPLIED ALARM.
20.	AA,AB,AJ,AK, REFER TO MANUAL READER, BA,BB,BJ,BK, REFER TO AUTOMATIC READER.
21.	MAY NOT BE FOUND ON EARLY UNITS.
22.	33TDY TO BE WIRED FOR .020 AMP. SIGNAL LINE OPERATION.
23.	FOR CUSTOMER USE REQUIRES 48 VAC. POWER SUPPLY.
24.	THE 186556 ELAPSED TIMER ASSEMBLY IS USED ON UP848 AND UP856
	NOTES CONTINUED ON ISSUE CONTROL SHEET.



SEE SHEET 1 FOR NOTES



A  
KEYBOARD CONTACT ARRANGEMENT



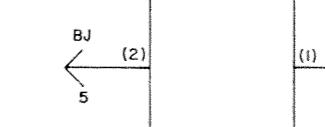
Q  
PAPER OUT  
ALARM

NOTE 18

NOTE 11

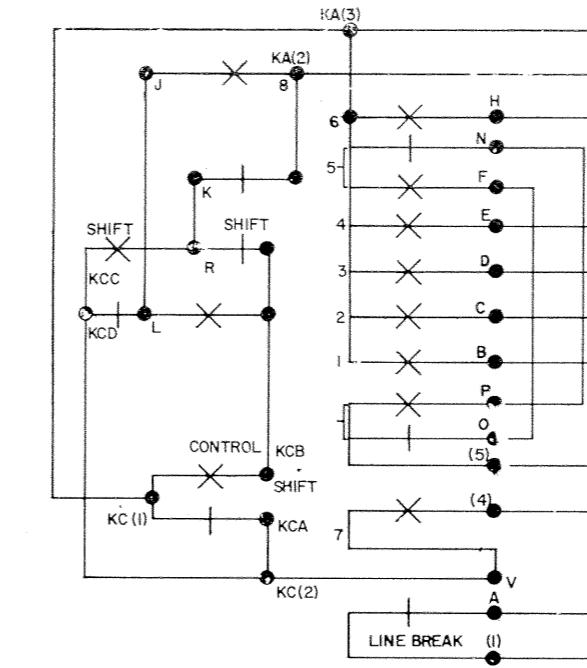
D  
DISTRIBUTOR  
DISC

BU  
ANS. BACK  
TRIP MAGNET



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

KA AND KC  
PARITY KEYBOARD CONTACT  
ARRANGEMENT



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

SHEET 2

SCHEMATIC  
WIRING DIAGRAM  
FOR  
MODEL 33  
ASR, KSR, RO  
DC SIGNAL LINE

E  
ANSWER  
BACK  
CONTACTS

APPROVALS

D AND R      E OF M

E-NUMBER

PROD. NO. 6353 WD

DATE 4-12-67

P.D. FILE NO. 2-30.152/153AA

DRAWN JR      CHKD.

ENG'D. AS      APPD.

TELETYPE  
CORPORATION

6353WD

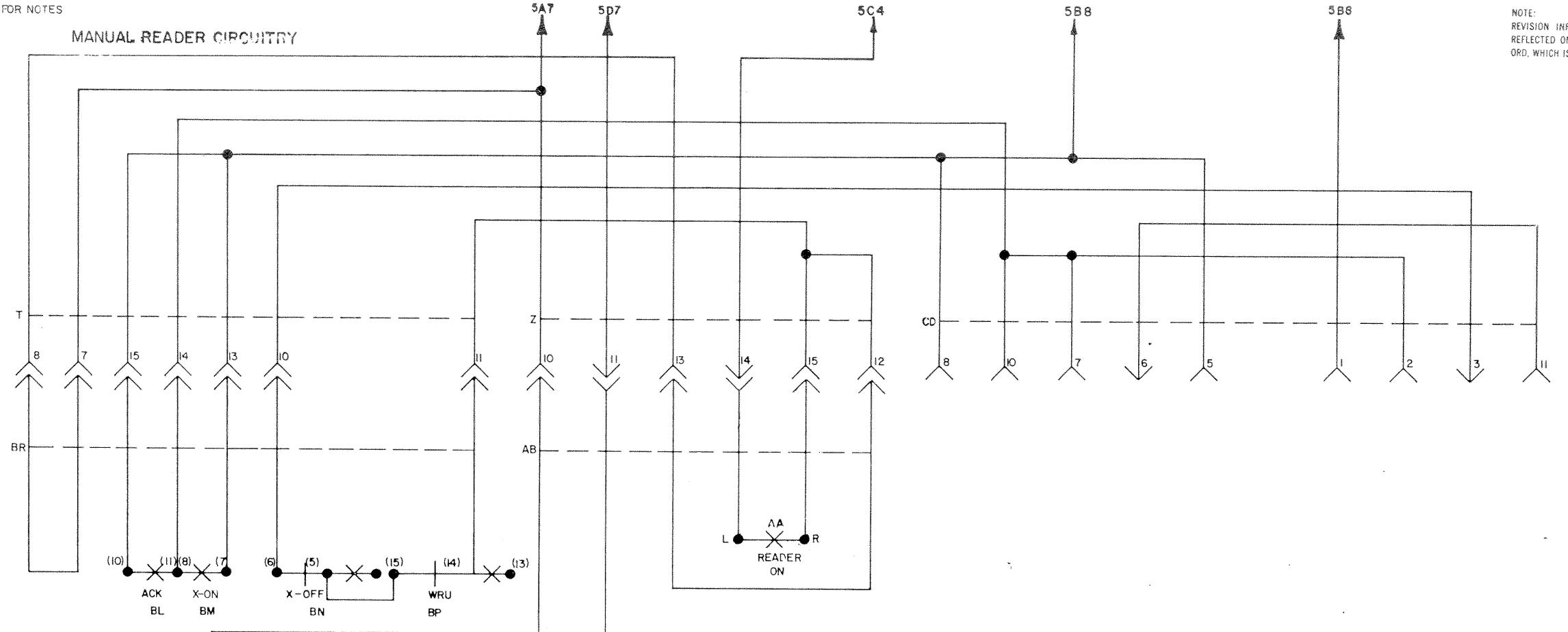
6353WD

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8	3-15-65	85643
9	8-6-65	88293
10	10-5-65	88983
11	12-17-65	89007
12	1-13-66	88841-3
13	2-17-66	90357
14	3-9-66	89721-2
15	3-29-66	90780
16	5-2-66	90374
17	5-10-66	90380
18	10-12-66	90771
19	10-19-66	92181
20	12-28-66	92962
21	5-29-67	94003-1
22	8-23-67	94003-10
23	I-24-69	96776

SEE SHEET ONE FOR NOTES

## MANUAL READER CIRCUITY



NOTE:  
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6353WD

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8	3-15-65	85643
9	8-6-65	88293
10	10-15-65	88983
11	12-17-65	89001
12	1-13-66	89841-3
13	2-17-66	90351
14	3-9-66	39721-2
15	3-29-66	90790
16	5-2-66	90374
17	5-10-66	90380
18	10-12-66	90771
19	10-19-66	92181
20	12-26-66	92962
21	8-22-68	95993
22	9-17-69	99187
23	2-10-70	99187-2
24	3-31-70	170

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

SHEET 3

WDP

SCHEMATIC  
WIRING DIAGRAM  
FOR  
MODEL 33  
ASR, KSR, RO  
DC SIGNAL LINE

## APPROVALS

D AND R	E OF M
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## E-NUMBER

PROD. NO. 6353 WD

DATE 4-28-67

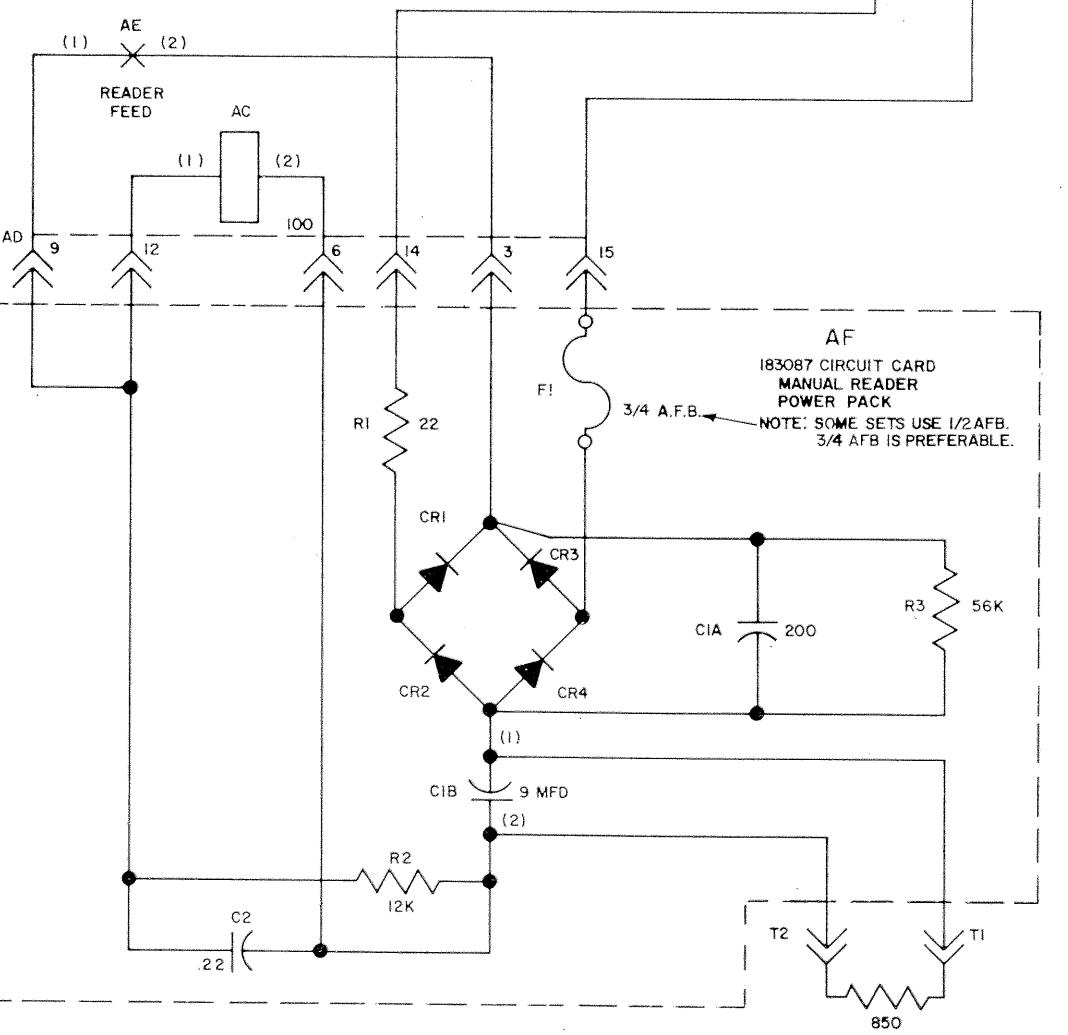
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DRAWN JER. CHKD.

ENGD. AS. APPD.

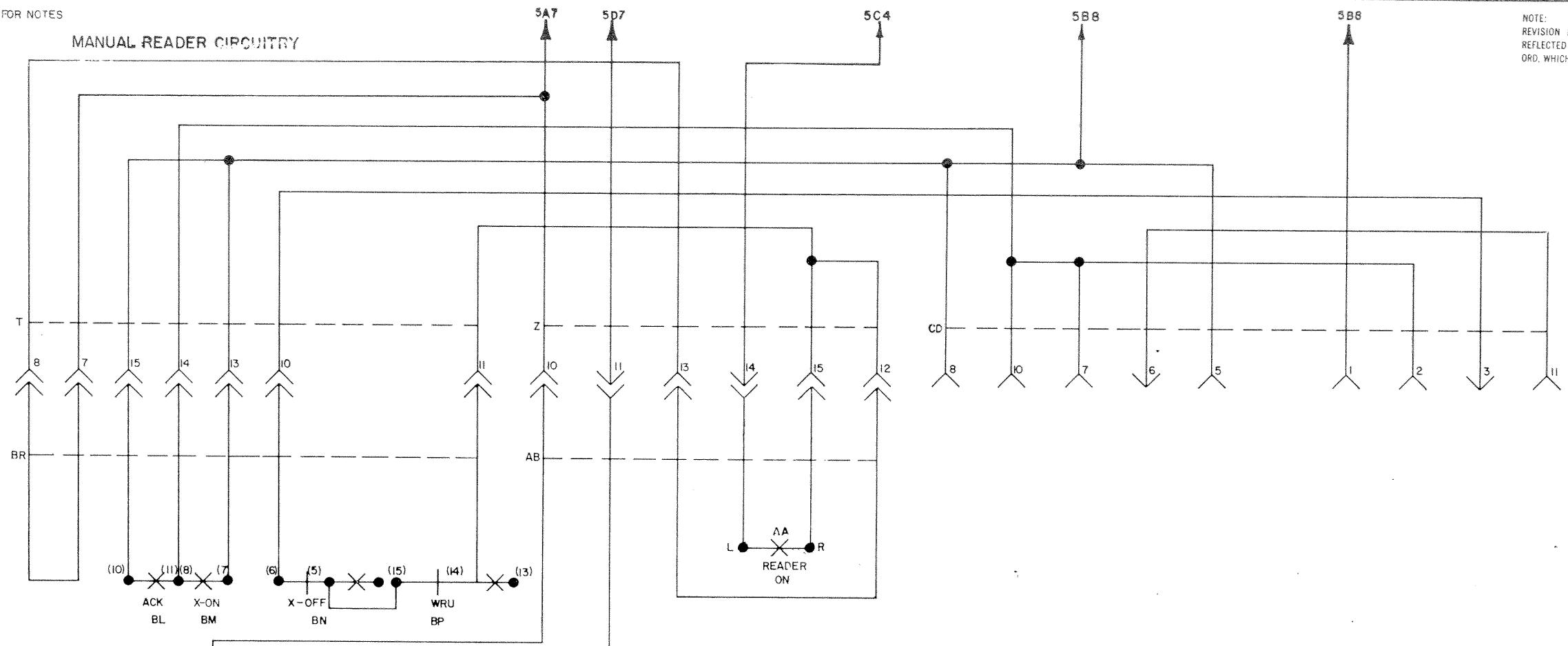
TELETYPE  
CORPORATION

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## MANUAL READER CIRCUITY



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12	1-13-66	89841-3
13	2-17-66	90357
14	3-9-66	39721-2
15	3-29-66	90790
16	5-2-66	90374
17	5-10-66	30380
18	7-2-66	90778
19	10-19-66	92181
20	12-26-66	92962
21	8-22-68	95993
22	9-17-69	99187
23	2-10-70	99167-2
24	3-31-70	170

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

SHEET 3

WDP

SCHEMATIC  
WIRING DIAGRAM  
FOR  
MODEL 33  
ASR, KSR, RO  
DC SIGNAL LINE

## APPROVALS

D AND R	E OF M
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## E-NUMBER

PROD. NO. 6353 WD

DATE 4-28-67

P.D. FILE NO. 2-30.152/153AA

DRAWN JER. CHKD.

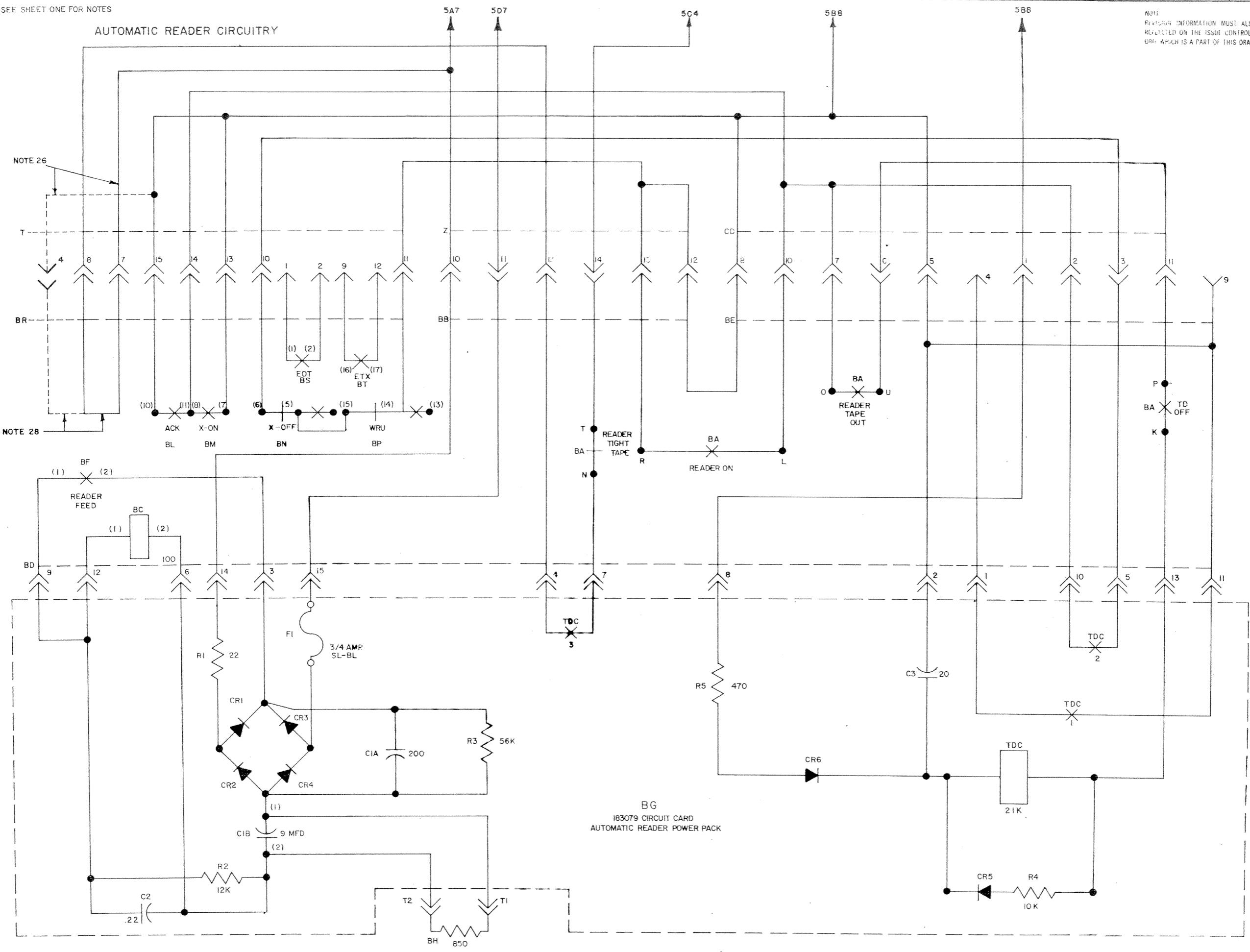
ENG'D. AS APPD.

TELETYPE  
CORPORATION

6353WD

SEE SHEET ONE FOR NOTES

## AUTOMATIC READER CIRCUITY



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6353WD

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13	2-17-66	90357
14	3-9-66	89721-2
15	3-29-66	90790
16	5-2-66	90374
17	5-10-66	90380
18	10-12-66	90771
19	10-19-66	92181
20	12-28-66	92952
21	1-24-69	96776
22	10-1-69	99557
23	3-31-70	170
24	1-22-71	419

SEE ISSUE CONTROL RECORD FOR COM-  
PLETE LIST OF SHEETS COMPRISING THIS  
WD

SHEET 4

SCHEMATIC  
WIRING DIAGRAM  
FOR  
MODEL 33  
ASR, KSR, NO  
DC SIGNAL LINE

## APPROVALS

D AND R	E OF M
L D m	wave

## E-NUMBER

PROD. NO. 6353 WD

DATE 4-28-67

P.D. FILE NO. 2-30.152/153AA

DRAWN JER. CHKD.

ENGD. AS. APPD.

TELETYPE  
CORPORATION

6353WD

BG  
183079 CIRCUIT CARD  
AUTOMATIC READER POWER PACK

T2 BH 850  
T1

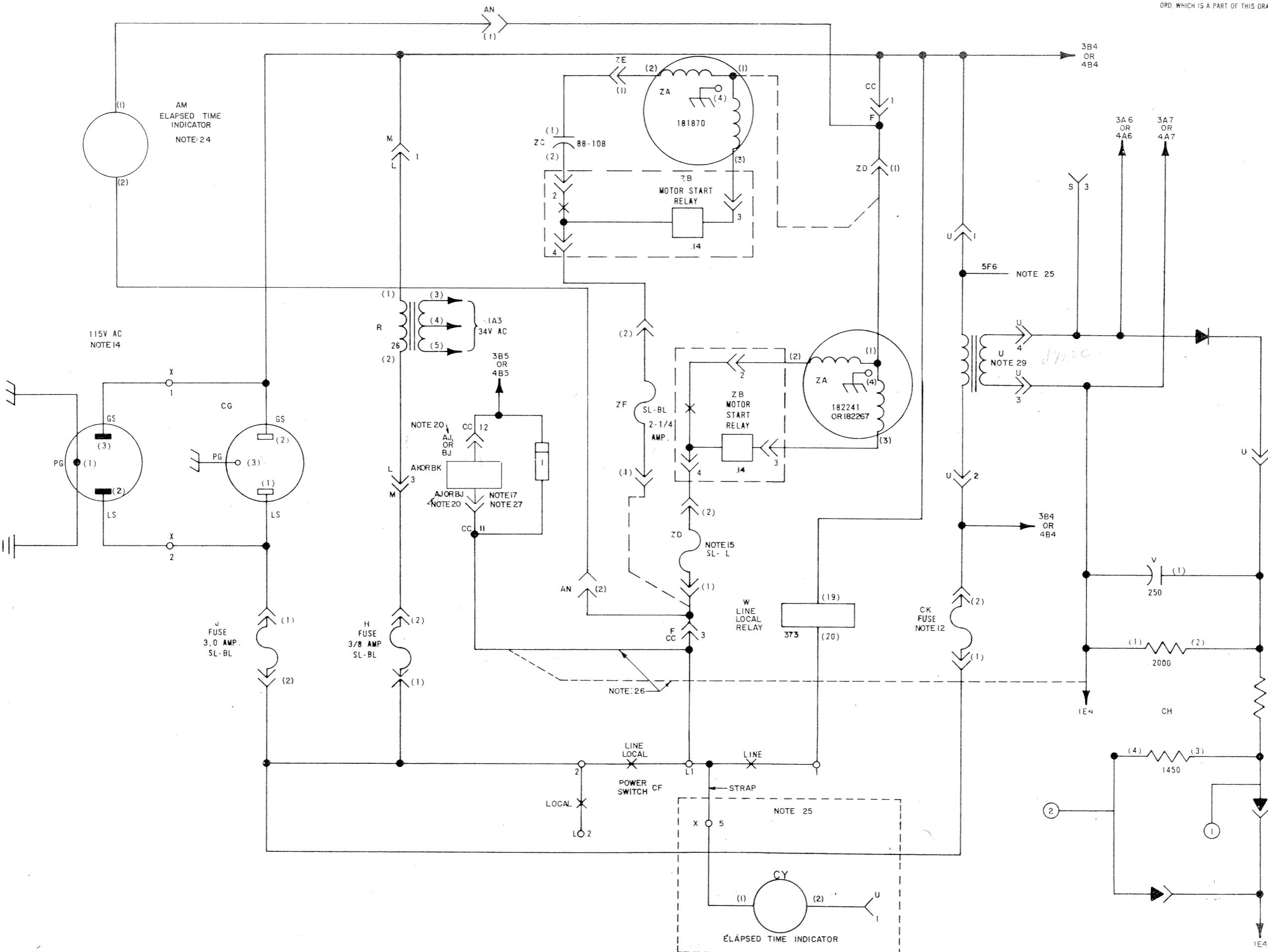
SEE SHEET 1 FOR NOTES

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6353WD

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10	10-15-65	88983
11	12-17-65	89007
12	1-13-66	88841-3
13	2-17-66	90367
14	3-9-66	89721-2
15	3-29-66	90750
16	5-2-66	90374
17	5-10-66	90380
18	10-12-66	90771
19	10-19-66	92181
20	12-28-66	92962
21	12-21-67	95147-RQ
22	1-24-69	96776
23	5-19-69	99243
24	10-1-69	99557
25	3-31-70	170
26	1-22-71	419



6353WD

## ISSUE CONTROL RECORD

NO.	NOTES	SUPPORTING INFORMATION		CONTENTS	SHEET NO.	ISSUE															REVISIONS APPLYING TO THIS CONTROL RECORD				
						20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	ISSUE	DATE
25.	WHEN THE 182044 ELAPSED TIME INDICATOR IS USED ON HALF DUPLEX ARRANGEMENTS, WIRE AS SHOWN AT 5F6. WHEN FULL DUPLEX OPERATION IS REQUIRED WIRE TIMER AS SHOWN BELOW:	.060A OPERATION  TAPE AND TIE BACK	NO.		1																				
		.020A OPERATION  TAPE AND TIE BACK			2																				
26.	UCC6 WIRED AS SHOWN IN SOLID LINES. UCC36-T4 CONNECTED TO T15, NO CONNECTION TO T7. CCI NOT CONNECTED PER DASHED LINE TO PROVIDE 48 VAC OPERATION OF READER TRIP COIL.				3																				
27.	279 M-48VAC -110 $\mu$ L 300 M-115VAC - 780 $\mu$ L				4																				
28.	WHEN A SET CONTAINS A UP848 IT WILL BE NECESSARY TO REMOVE THE 182692 STRAP BETWEEN TERMINALS 788 AND REPLACE IT WITH THE 182693 STRAP BETWEEN TERMINALS 488.				5																				
29.	THE "U" TRANSFORMER MAY BE ONE OF THE FOLLOWING: 	181879	186651		ISS. NO. →	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	30	31
					1																			23	23
					2																			24	24
					3																			24	24
					4																			26	26
					5																				

ISSUE CONTROL SHEET    OF   

WD NUMBER 6353 WD

DRAWN JER CHKD.

ENGD. A.S. APPD.

TELETYPE CORPORATION

6353WD

6354 WD

## REVISIONS

ISSUE	DATE	AUTH. NO.
A 2	11-20-63	79266
B 3	1-8-64	79934
C 4	2-11-64	80310
D 5	3-16-64	81133
E 6	6-9-64	81772
F 7	11-27-64	84602
G 8	2-15-65	84599-1
H 9	3-15-65	85643
I 10	4-10-65	86573
J 11	8-6-65	88293
K 12	10-15-65	88983
L 13	12-17-65	89007
M 14	1-13-66	88841-3
N 15	3-9-66	89721-2
O 16	3-29-66	90790
P 17	5-10-66	90380
Q 18	10-11-66	90771
R 19	10-19-66	92181
S 20	12-1-66	91561
T 21	5-26-67	94003
U 22	8-7-67	94091-8
V 23	8-23-67	940034D
W 24	4-11-68	95703
X 25	5-20-68	95781
Y 26	1-27-69	96776
Z 27	4-16-69	99079
AA 28	9-9-69	99474
BB 29	10-1-69	59557
CC 30	5-14-71	2787

NOTE:  
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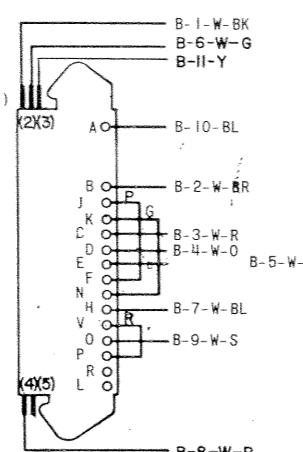
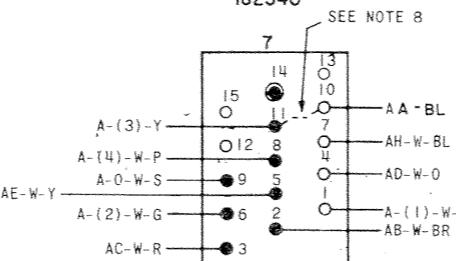
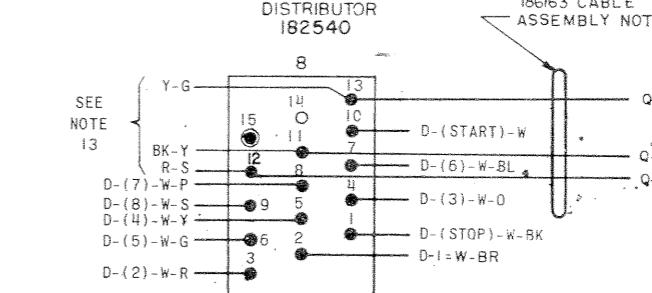
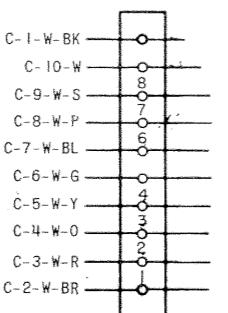
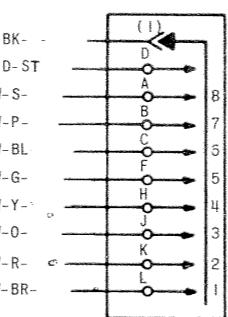
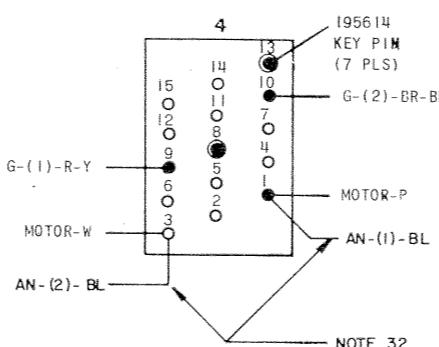
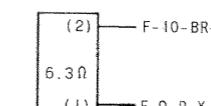
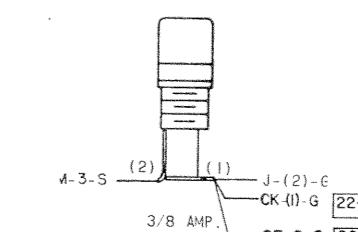
NOTES CONTINUED ON  
ISSUE CONTROL SHEET

1. WIRING LEGEND:  
 D - DISTANT TERMINATING AREA  
 D - DISTANT TERMINATING DESIGNATION  
 A-11-BK [20-B] - NOTE 19  
 WIRE COLOR CODE

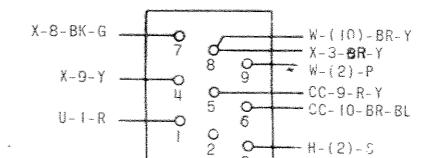
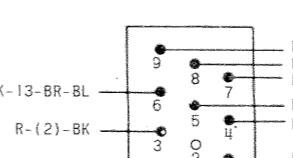
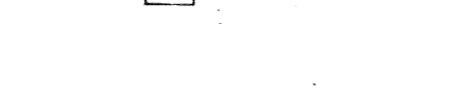
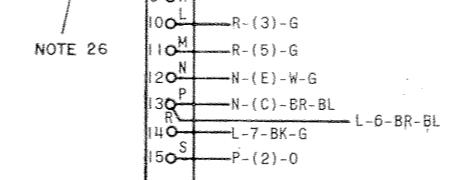
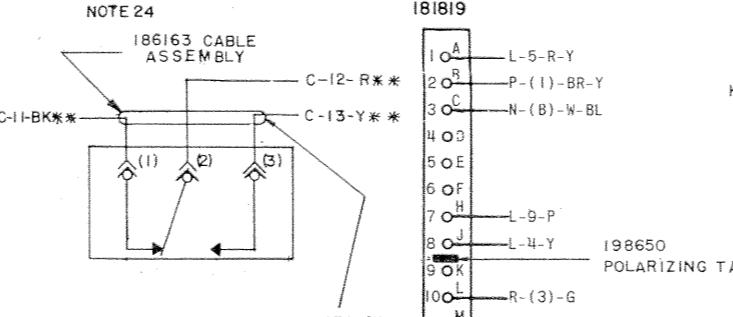
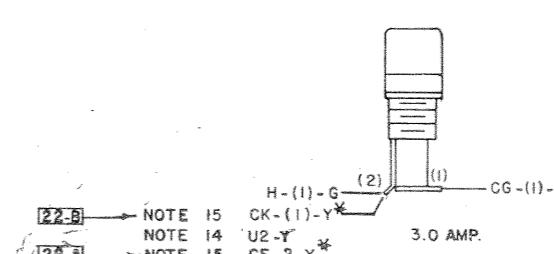
2. WIRE COLOR CODE:  
 BK - BLACK BL - BLUE  
 BR - BROWN S - SLATE  
 Y - YELLOW G - GREEN  
 O - ORANGE P - PURPLE  
 R - RED W - WHITE
3. FOR SCHEMATIC WIRING DIAGRAM SEE 6353WD.
4. THE SET IS SHOWN WIRED FOR SIMPLEX .060 AMP. NEUTRAL SIGNAL LINE ON TERMINALS 6 AND 7 OF THE 1514111 TERMINAL STRIP. FOR .020 AMP. NEUTRAL SIGNAL LINE MOVE THE P WIRE FROM TERMINAL 8 TO TERMINAL 9 OF THE 1514111 TERMINAL STRIP. ALSO MOVE THE BL WIRE FROM TERMINAL 3 TO 4 ON THE POWER RESISTOR.
5. FOR FULL DUPLEX OPERATION CONNECT THE SEND SIGNAL LINE TO TERMINALS 4 & 3 OF THE 1514111 TERMINAL STRIP. MOVE THE W-BL WIRE FROM TERMINAL 4 TO 5 AND THE BR-Y WIRE FROM TERMINAL 3 TO 5 ON THE 1514111 TERMINAL STRIP.

6. TERMINAL DESIGNATIONS ENCLOSED IN PARENTHESIS ARE NOT MARKED ON THE COMPONENT.
7. ASSOCIATED CABLE ASSEMBLY 181820.
8. ON R.O. SETS SUBSTITUTE 181838 CABLE ASSEMBLY ON CONNECTOR "7".
9. 181827 CABLE ASSEMBLY USED ON 181820 CABLE ASSEMBLY.
10. USE 181826 STRAPS ON ASSEMBLY.
11. IF EITHER X-OFF OR WRU FUNCTION CONTACT IS NOT USED THE CONTACT SHOULD BE JUMPED OUT (UX801).
12. 181839 PLUG ASSEMBLY USED ON ASR SETS. (UX 800)
13. THESE WIRES ARE IN THE DISTRIBUTOR CABLE AS SPARES.
14. WIRING DESIGNATED "(NOTE 14)" APPLIES TO UNITS WITHOUT CK FUSE HOLDER.
15. WIRING DESIGNATED "(NOTE 15)" APPLIES TO UNITS WITH CK FUSE HOLDER.

16. FUSE VALUES ARE AS FOLLOWS:  
 TRANSFORMER FUSE PART NO.  
 181879 1/2 AMP. 117176  
 SL-BL  
 182657 8/10 AMP. 162360  
 SL-BL
17. WIRING SHOWN FOR KA, KB, & KC IS FOR EVEN PARITY KEYBOARDS.
18. FURNISH 115V AC ± 10%, 60 Hz, EXCEPT 50 Hz ON 33TAB KSR, AND 33 TAC, TDK, TDM, TES, ASR SETS.
19. WIRING STATUS:  
 RECTANGULAR BOX INDICATES HISTORY OF WIRING CHANGES.  
 00-B NOTE B-DENOTES WIRING BEFORE AND A-WIRING AFTER THE CHANGE  
 00-A NO. DESCRIBED BY THE DESIGNATED NOTE, ENTERED THE PRODUCT.
20. 185731 STRAP AND FUSE ASSEMBLY, NOT INCLUDED IN EARLY SETS.  
 MOTOR FUSE VALUE FUSE PART NO.  
 182241 2.0 AMP 138538  
 182267 1.8 AMP 320346
- \* DENOTES 20 GA. WIRE  
 \*\* DENOTES 18 GA. WIRE

A  
KEY BOARD CONTACT BLOCKB  
CONNECTOR PLUG  
KEYBOARD  
182540C  
CONNECTOR PLUG  
DISTRIBUTOR  
182540D  
DISTRIBUTOR  
DISCE  
ANSWER BACK  
BLOCKF  
CONNECTOR PLUG  
(PRINTER)  
182540G  
SELECTOR  
COIL  
180715H  
FUSE  
HOLDER  
182661SEE ISSUE CONTROL RECORD FOR  
COMPLETE LIST OF SHEETS  
COMPRISED THIS W.D.

SHEET 1

ACTUAL  
WIRING DIAGRAM  
FOR  
MODEL 33  
ASR, KSR, RO  
FOR  
DC SIGNAL LINEM  
CONNECTOR RECEPTACLE  
(UCC6)(UCC 36)  
182645L  
CONNECTOR PLUG  
SMD  
182716K  
SMD CARD CONNECTOR  
RECEPTACLE  
181819J  
FUSE  
HOLDER  
182661

## APPROVALS

D AND R  
H.J.K.

E NUMBER

PROD. NO. 6354WD

DATE 9-25-68

P.D. FILE NO. 2-30-152-153AA

DRAWN C.G.

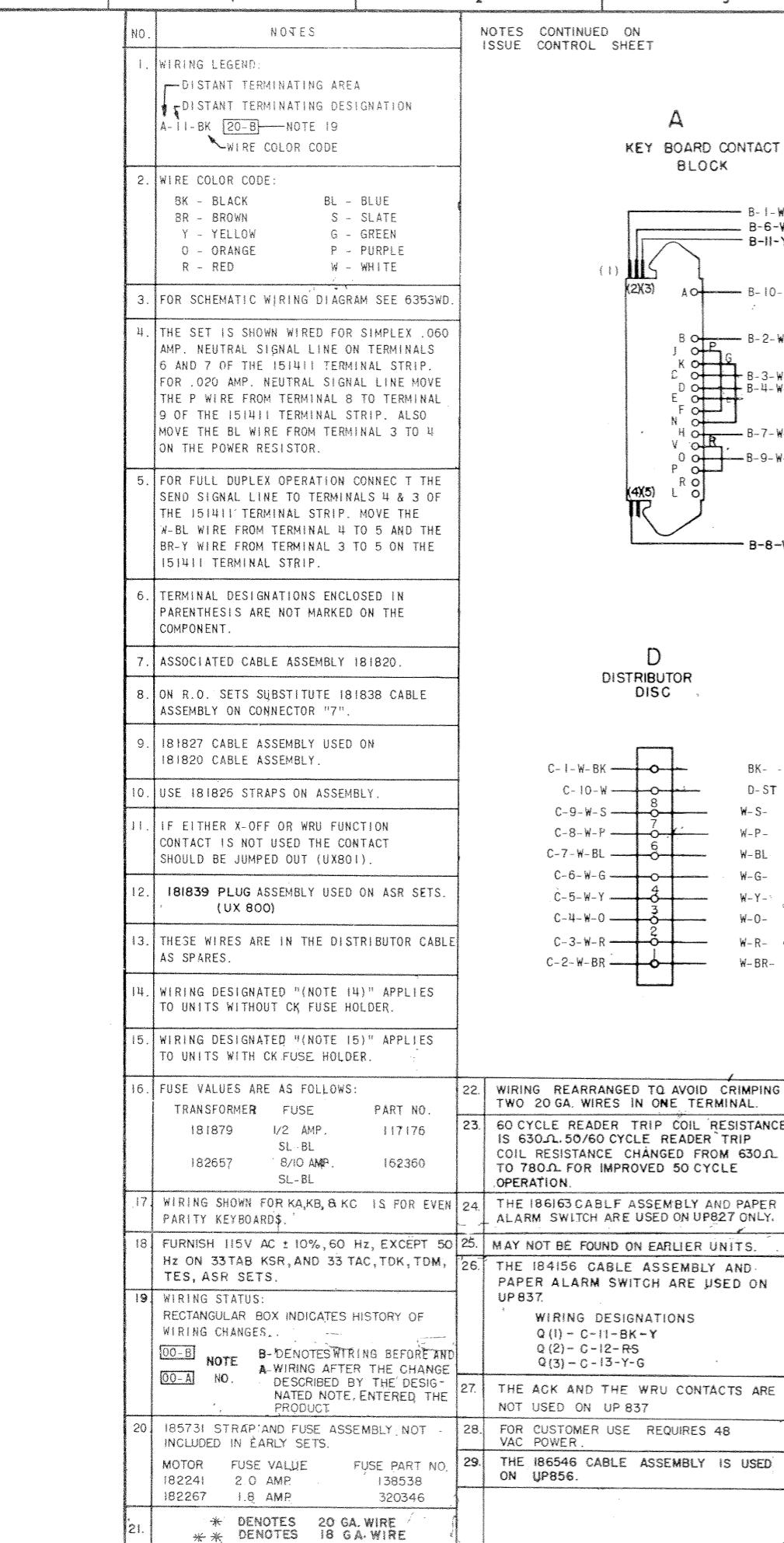
CHKD.

ENG'D. P.R.S.

APPD.

TELETYPE  
CORPORATION

6354 WD



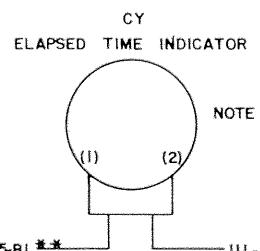
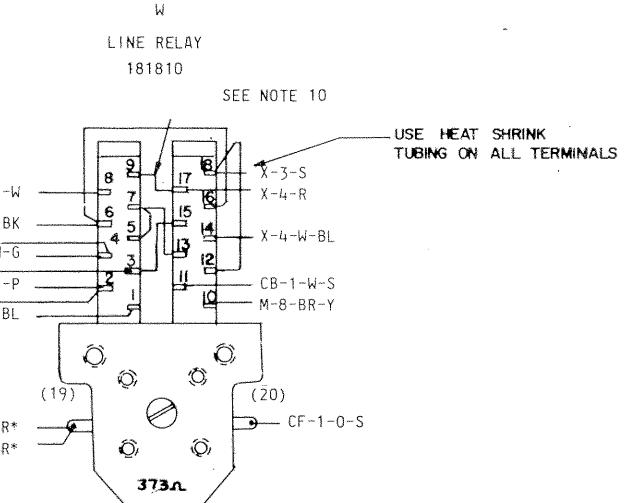
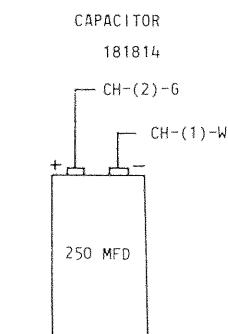
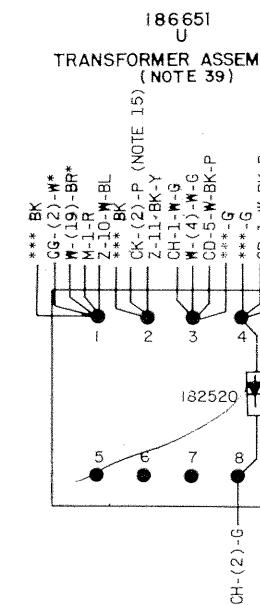
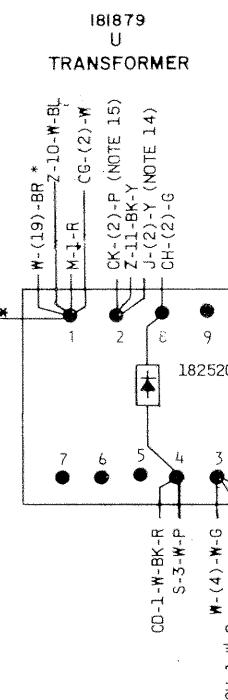
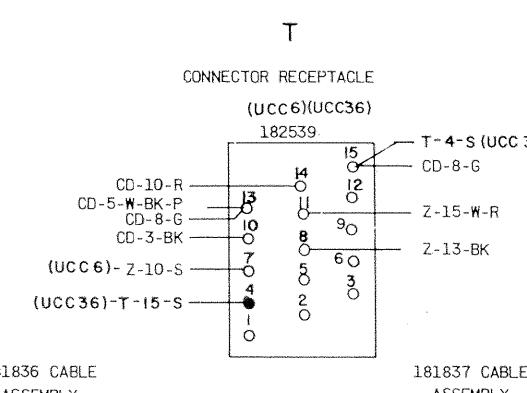
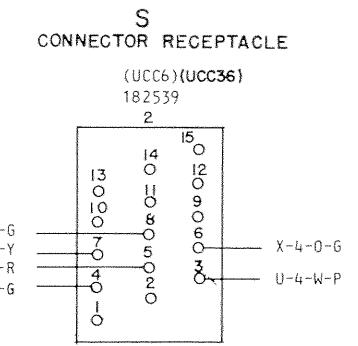
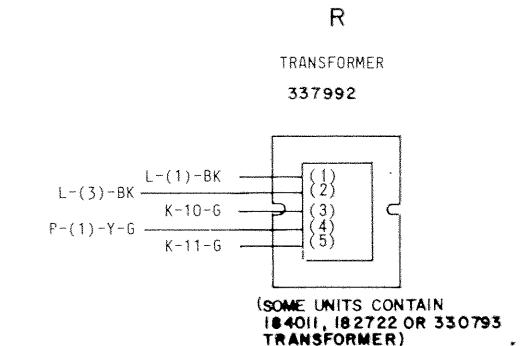
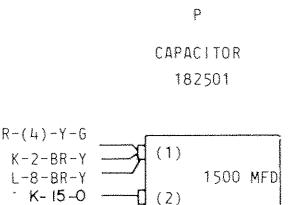
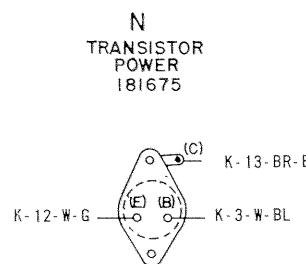
SEE SHEET 1 FOR NOTES

NOTE:  
REVISION INFORMATION MUST ALSO BE  
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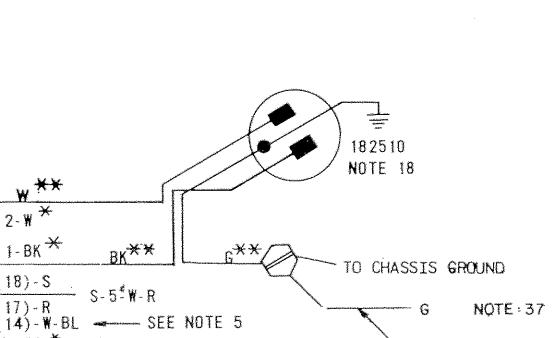
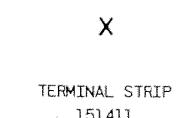
6354 WD

## REVISIONS

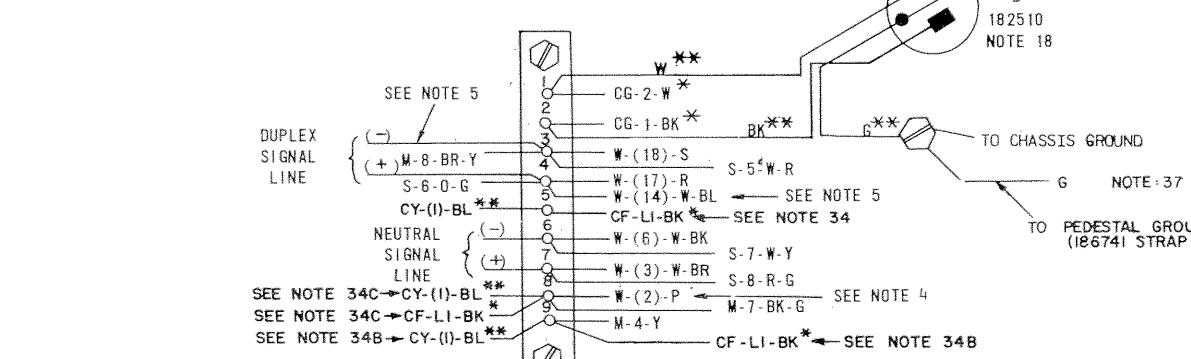
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26	1-15-71	736
27	1-22-71	419



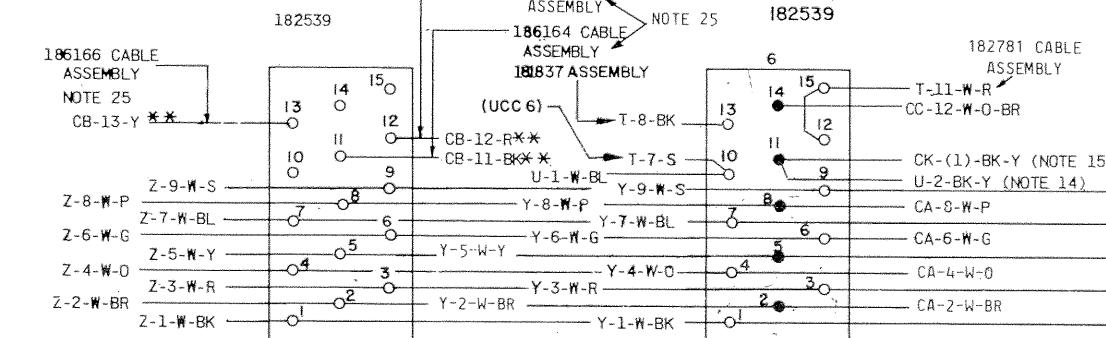
NOTE 34



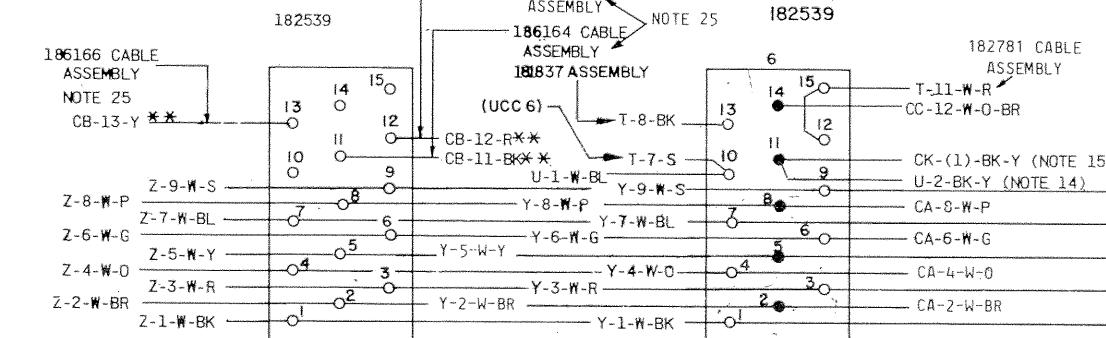
\*\*\* DENOTES TRANSFORMER LEADS

CONNECTOR RECEPTACLE  
(UCC 36)(UCC 36)

182539

CONNECTOR RECEPTACLE  
(UCC 36)(UCC 36)

182539



SEE ISSUE CONTROL RECORD FOR COM-  
PLETE LIST OF SHEETS COMPRISING THIS  
W.D.  
SHEET 2

ACTUAL  
WIRING DIAGRAM  
FOR  
MODEL 33 - ASR, KSR, RO  
FOR  
DC SIGNAL LINE

## APPROVALS

D AND R

E OF M  
HJK

## E-NUMBER

PROD. NO. 6354WD

DATE 9-25-63

P.D. FILE NO. 2-30.152/153AA

DRAWN CG

CHKD.

ENG'D. PRS APPD.

TELETYPE  
CORPORATION

6354 WD

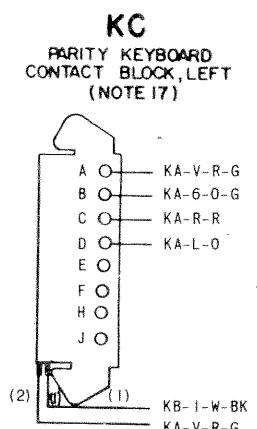
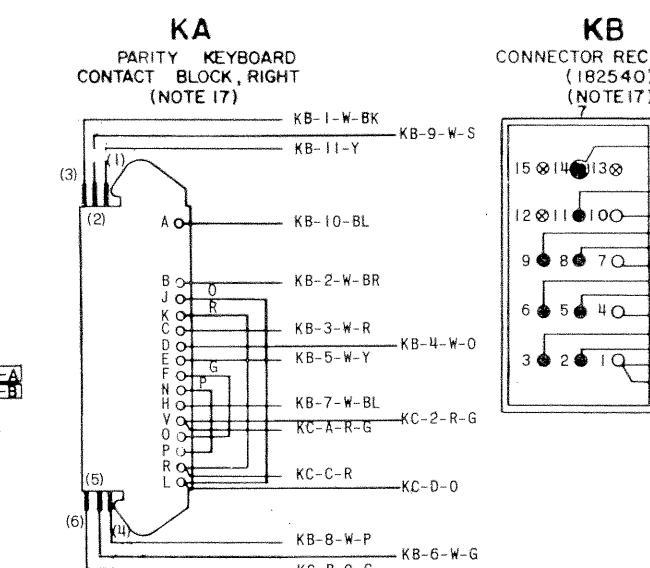
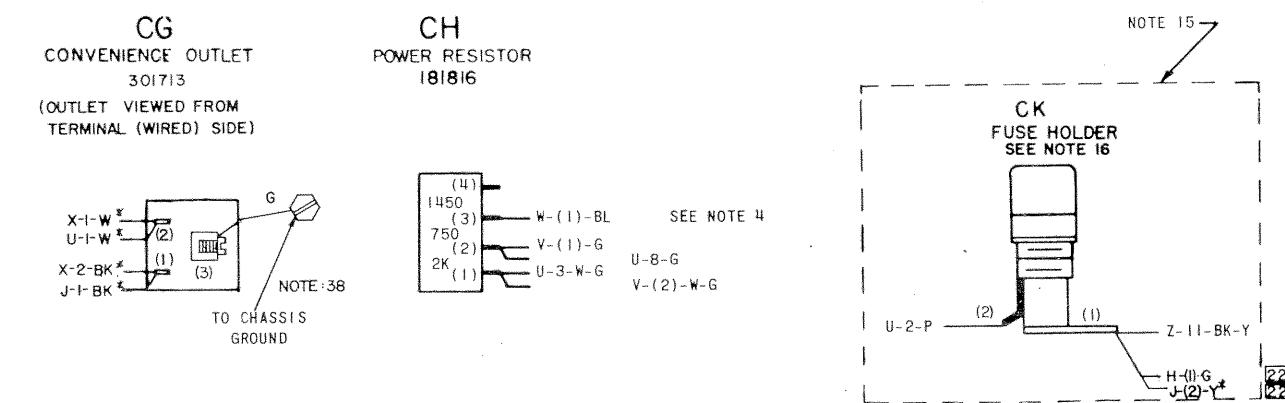
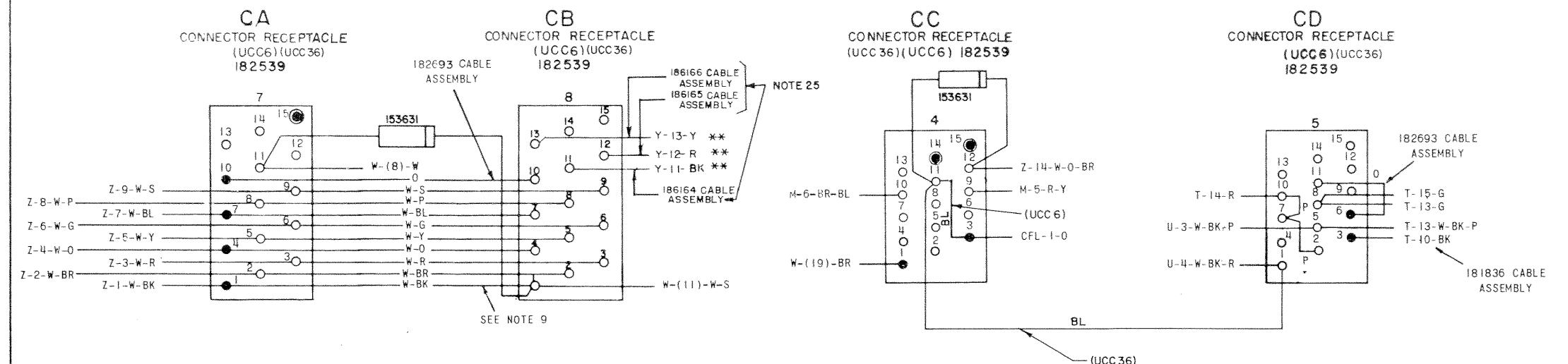
SEE SHEET 1 FOR NOTES

6354WD

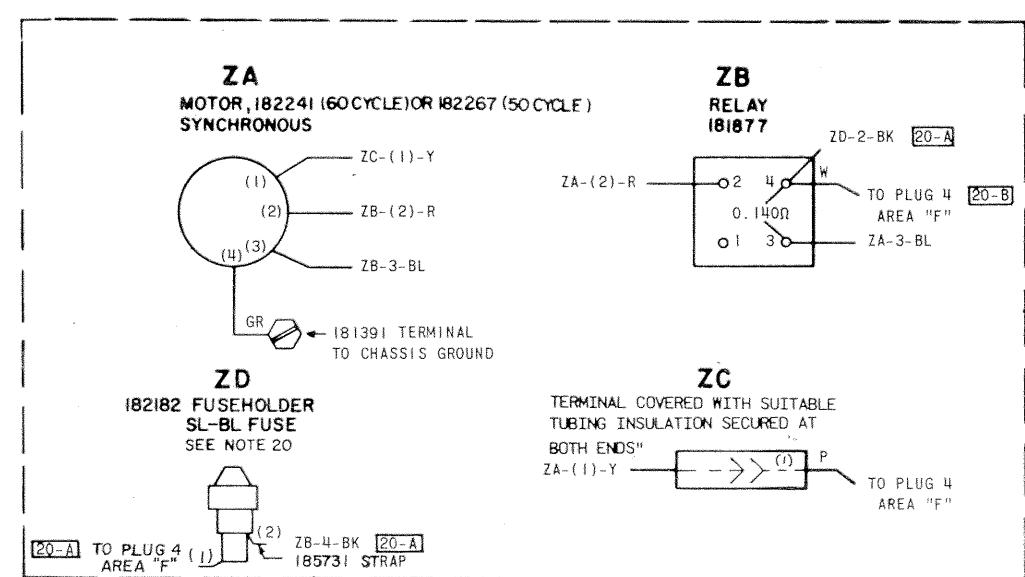
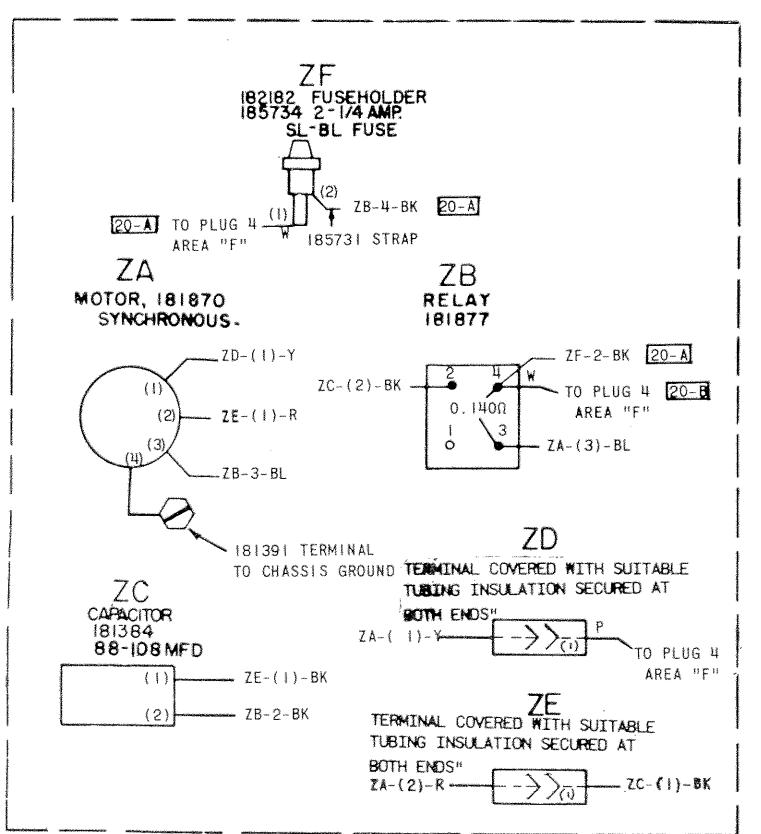
NOTE:  
REVISION INFORMATION MUST ALSO  
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OF THIS W.D.

## REVISIONS

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19	10-11-66	90771
20	5-29-67	94003
21	8-21-67	94003-ID
22	5-22-69	99243
23	10-1-69	99557
24	2-18-70	99947-4
25	3-4-70	99947-I
26	12-9-70	2145



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



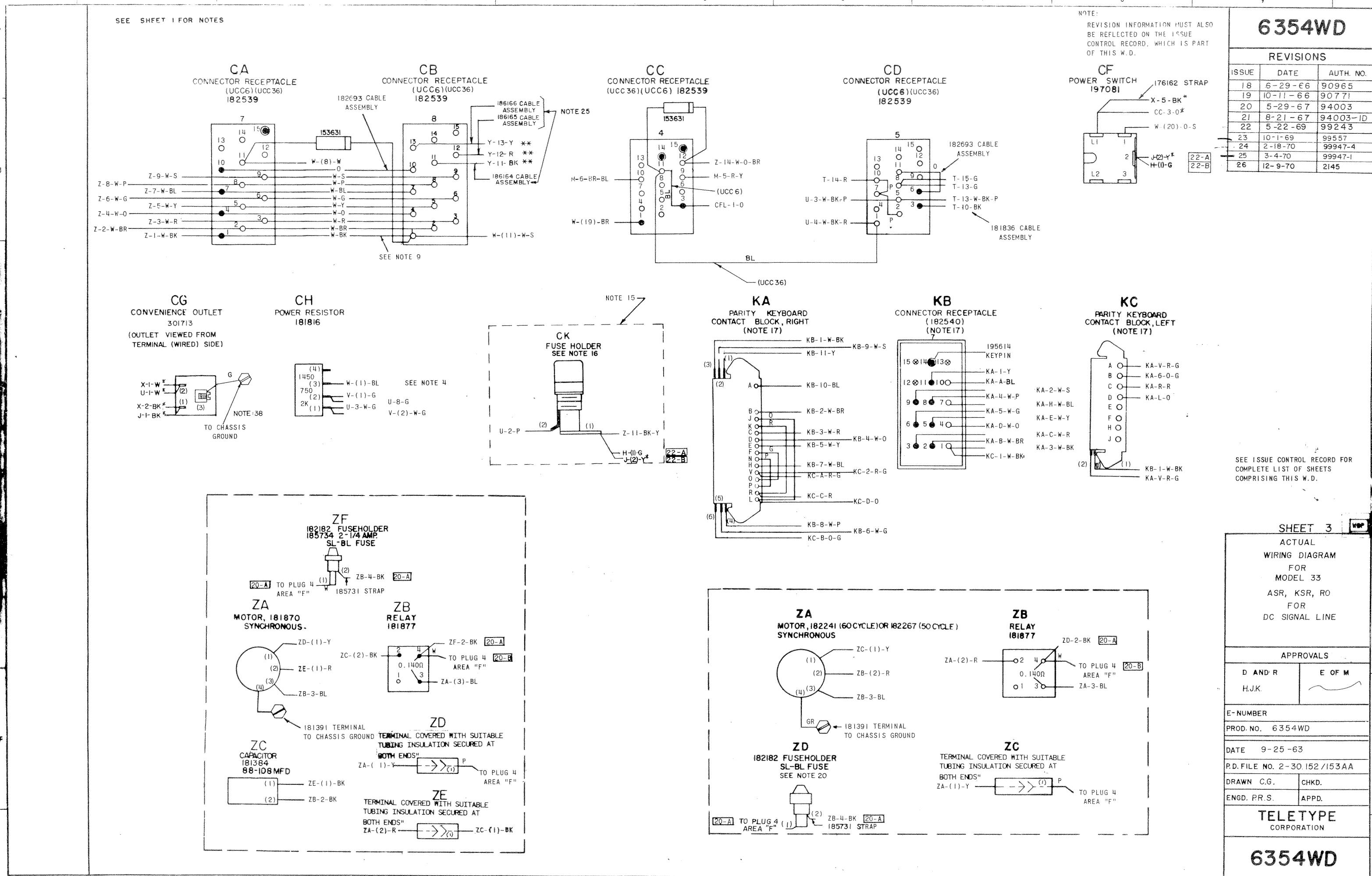
SHEET 3

ACTUAL  
WIRING DIAGRAM  
FOR  
MODEL 33  
ASR, KSR, RO  
FOR  
DC SIGNAL LINE

APPROVALS	
D AND R	E OF M
H.J.K.	
E-NUMBER	
PROD. NO.	6354WD
DATE	9-25-63
P.D. FILE NO.	2-30.152/153AA
DRAWN C.G.	CHKD.
ENG'D. P.R.S.	APPD.

TELETYPE CORPORATION

6354WD



MANUAL READER  
UX 800

SEE SHEET I FOR NOTES

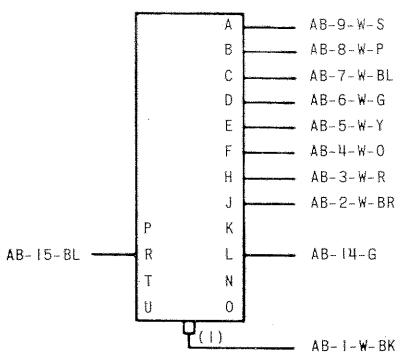
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6354WD

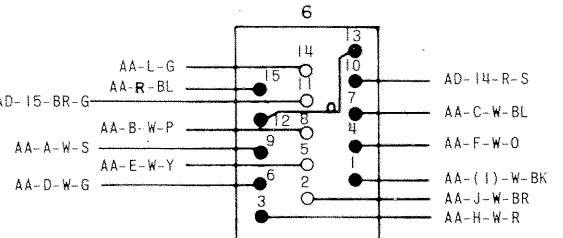
REVISIONS

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9	2-18-70	99947-4
10	12-9-70	2145

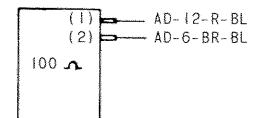
AA  
READER CONTACT  
BLOCK



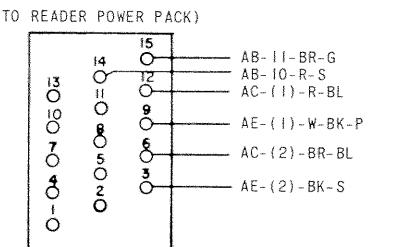
AB  
CONNECTOR PLUG  
(PRINTER)  
182540



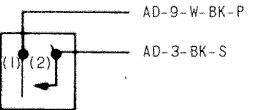
AC  
READER FEED  
MAGNET



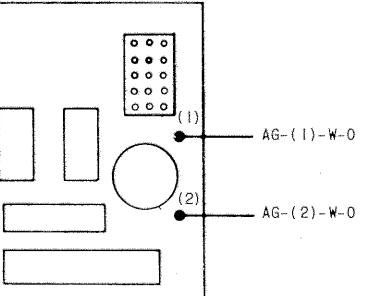
AD  
CONNECTOR RECEPTACLE  
182539



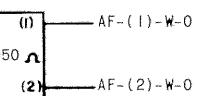
AE  
READER FEED  
CONTACT



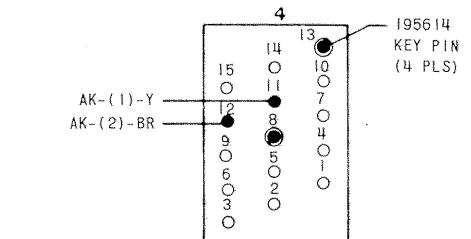
AF  
BOARD ASSEMBLY  
READER POWER PACK  
183087



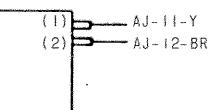
AG  
RESISTOR, POWER  
183081



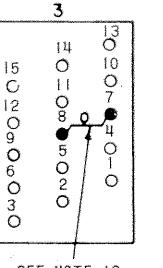
AJ  
CONNECTOR PLUG  
(PRINTER)  
182540



AK  
READER TRIP  
MAGNET  
(SEE NOTE 23)



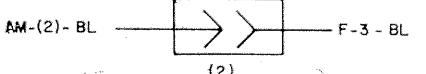
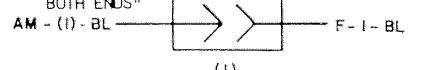
AL  
CONNECTOR PLUG  
(PRINTER)  
182540



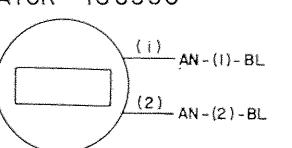
SEE NOTE 12

SEE NOTES 32 & 33

AN  
TERMINAL COVERED WITH SUITABLE  
TUBING INSULATION SECURED AT  
BOTH ENDS"



AM  
ELAPSED TIME  
INDICATOR 186556



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

SHEET 4

ACTUAL  
WIRING DIAGRAM  
FOR  
MODEL 33  
ASR, KSR, RO  
FOR  
DC SIGNAL LINE

APPROVALS

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

PROD. NO. 6354WD

DATE 9-25-63

P.D. FILE NO. 2-30-152/153AA

DRAWN C.G. CHKD.

ENGD. P.R.S. APPD.

TELETYPE  
CORPORATION

6354WD

SEE SHEET I FOR NOTES

AUTOMATIC READER  
UX 80I

2

3

4

5

6

7

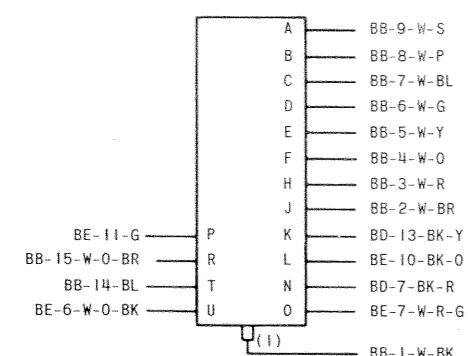
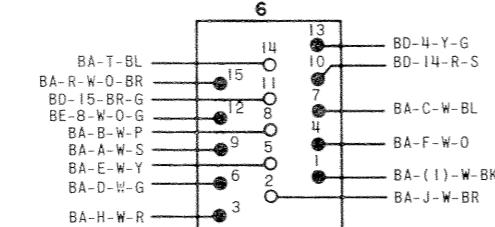
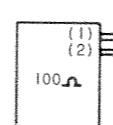
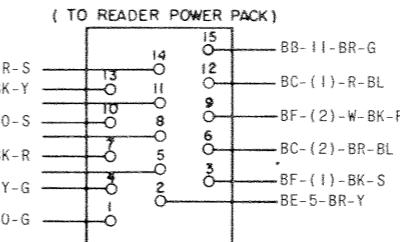
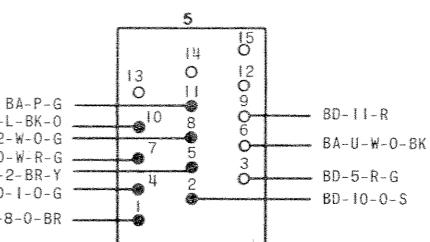
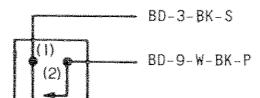
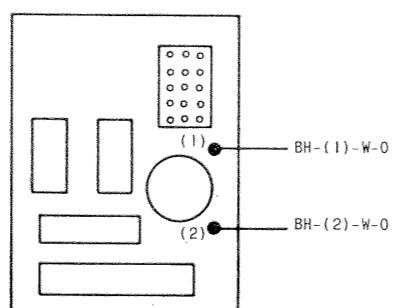
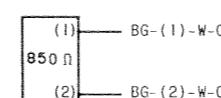
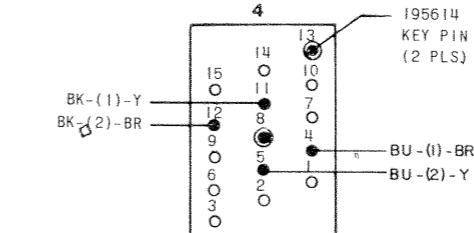
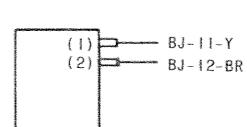
NOTE:

REVISION INFORMATION MUST ALSO  
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CONTROL RECORD, WHICH IS PART  
OF THIS W.D.

6354WD

## REVISIONS

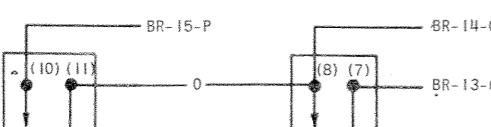
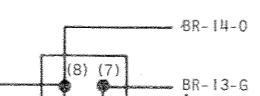
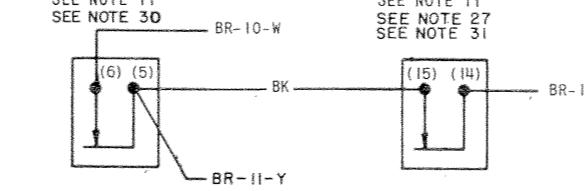
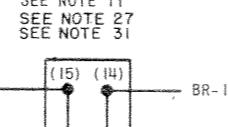
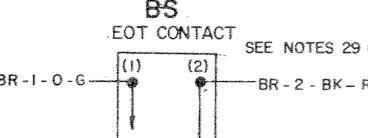
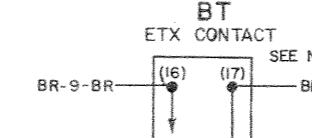
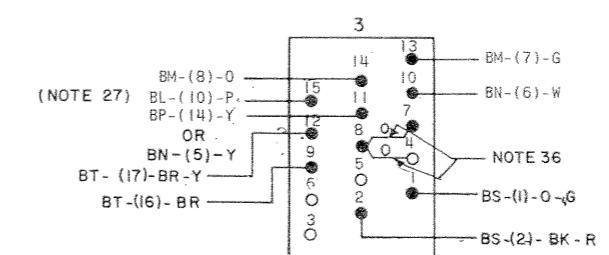
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F 7	10-19-66	92181
G 8	4-II-68	95703
H 9	5-20-68	95781
I 10	1-23-69	96776
J 11	10-1-69	99557

BA  
READER CONTACT  
BLOCKBB  
CONNECTOR PLUG  
(PRINTER)  
182540BC  
READER FEED  
MAGNETBD  
CONNECTOR RECEPTACLE  
182539BE  
CONNECTOR PLUG  
182540BF  
READER FEED  
CONTACT  
182137BG  
BOARD ASSEMBLY  
READER POWER PACK  
183079BH  
RESISTOR POWER  
183081BJ  
CONNECTOR PLUG  
(PRINTER)  
182540BK  
READER TRIP  
MAGNET  
(SEE NOTE 23 & 35)

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

SHEET 5

ACTUAL  
WIRING DIAGRAM  
FOR  
MODEL 33  
ASR, KSR, RO  
DC SIGNAL LINE

BL  
ACK CONTACT  
SEE NOTE 27BM  
X-ON  
CONTACT  
SEE NOTE 30BN  
X-OFF  
CONTACT  
SEE NOTE 11  
SEE NOTE 30BP  
WRU  
CONTACT  
SEE NOTE 11  
SEE NOTE 27  
SEE NOTE 31BS  
EOT CONTACT  
SEE NOTES 29 & 30BT  
ETX CONTACT  
SEE NOTES 29 & 30BR  
CONNECTOR PLUG  
(PRINTER)  
182540

APPROVALS

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

E-NUMBER

PROD. NO. 6354WD

DATE 9-28-63

P.D. FILE NO. 2-30-152, 153AA

DRAWN C.G. CHKD.

ENG'D. P.R.S. APPD.

TELETYPE  
CORPORATION

6354WD

6354 WD

## ISSUE CONTROL RECORD

WSP

NO.	NOTES	SUPPORTING INFORMATION		CONTENTS	SHEET NO.	ISSUE														REVISIONS APPLYING TO THIS CONTROL RECORD		
						2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
30.	THE I86543 CABLE ASSEMBLY IS USED ON UP848.	CATEGORY	NO.		1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	REVISIONS APPLYING TO THIS CONTROL RECORD	
31.	THE WRU CONTACT IS NOT WIRED ON UP848				2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	ISSUE DATE AUTH. NO.	
32.	THE I86554 CABLE ASSEMBLY IS USED ON UP848 AND UP856.				3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	18-1 3-9-66 89721-2	
33.	THE I86556 ELAPSED TIMER ASSEMBLY AND THE I81891 SLEEVES ARE USED ON UP848 AND UP856.				4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-2 3-29-66 90790	
34.	a THE I82044 ELAPSED TIMER KIT IS USED ON MODELS 33TDH,TDP, AND IS FACTORY WIRED AS SHOWN FOR .020A OR .060A HALF DUPLEX OPERATION. b. FULL DUPLEX .060A. IF THIS OPTION IS DESIRED FOR USE WITH THE I82044 ELAPSED TIMER KIT (REFER NOTE 5). DISCONNECT TAPE AND TIE BACK THE YELLOW WIRE THAT IS PRESENTLY CONNECTED AT TERMINAL 9 AND RELOCATE THE TIMER LEAD CY-1-BL AND THE I76162 STRAP FROM TERMINAL 5 OF THE "X" TERMINAL STRIP TO TERMINAL 9. c. FULL DUPLEX .020A. IF THIS OPTION IS DESIRED FOR USE WITH THE I82044 ELAPSED TIMER KIT (REFER NOTES 4 & 5). DISCONNECT TAPE AND TIE BACK THE BLACK, GREEN WIRE THAT IS PRESENTLY CONNECTED AT TERMINAL 8 AND RELOCATE THE TIMER LEAD CY-1-BL AND THE I76162 STRAP FROM TERMINAL 5 OF THE "X" TERMINAL STRIP TO TERMINAL 8.				5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-3 5-10-66 90380		
35.	279M-48VAC-110Ω 300M-115VAC-780Ω				20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	-4 6-29-66 90965
36.	WHEN A SET CONTAINS A UP848 IT WILL BE NECESSARY TO REMOVE THE I82692 STRAP BETWEEN TERMINALS 7&8 AND REPLACE IT WITH THE I82693 STRAP BETWEEN TERMINALS 4&6.				1	X	X		29	29	30											-5 10-11-66 90771
37.	OLDER SETS NOT EQUIPPED WITH PEDESTAL GROUND STRAP.				2	X	X		25	26	27	27										-6 10-19-66 92181
38.	OLDER STYLE CONVENIENCE OUTLET MECHANICALLY GROUNDED.				3	X	X		26	26	26											-7 5-26-67 94003
39.	WIRING APPLIES TO UNITS WITH I86651 TRANS. ASSEM. (TRANS. PART NO. I86648)				4				10	10	10	10									-8 8-7-67 94091-B	
					5				11	11	11	11										-9 8-23-67 94003-ID
																					-10 3-28-68 95607	
																					-11 4-11-68 95703	
																					-12 5-8-68 95523-4	
																					-13 5-21-68 95781	
																					-14 1-27-69 96776	
																					-15 4-16-69 99079	
																					-16 5-22-69 99243	
																					-17 9-9-69 99474	
																					-18 10-1-69 99557	
																					-19 10-16-69 99725	
																					-20 10-17-69 99716	
																					-21 2-18-70 99947-4	
																					-22 3-4-70 99947-1	
																					-23 12-9-70 2145	
																					-24 1-18-71 736	
																					-25 1-22-71 419	
																					-26 5-14-71 2787	

ISSUE CONTROL SHEET 1 OF 1

ACTUAL  
WIRING DIAGRAM  
FOR  
MODEL 33  
ASR, KSR, RO  
FOR  
DC SIGNAL LINE

WD NUMBER 6354 WD

DRAWN CHKD.

ENGD. P.R.S APPD. N.A.J.

TELETYPE  
CORPORATION

6354 WD

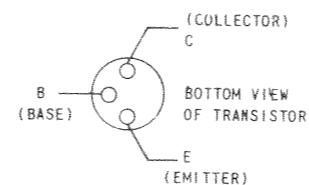
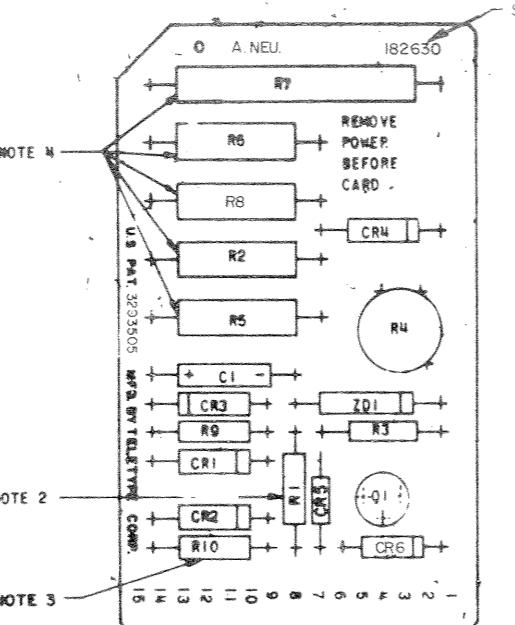


182630-35

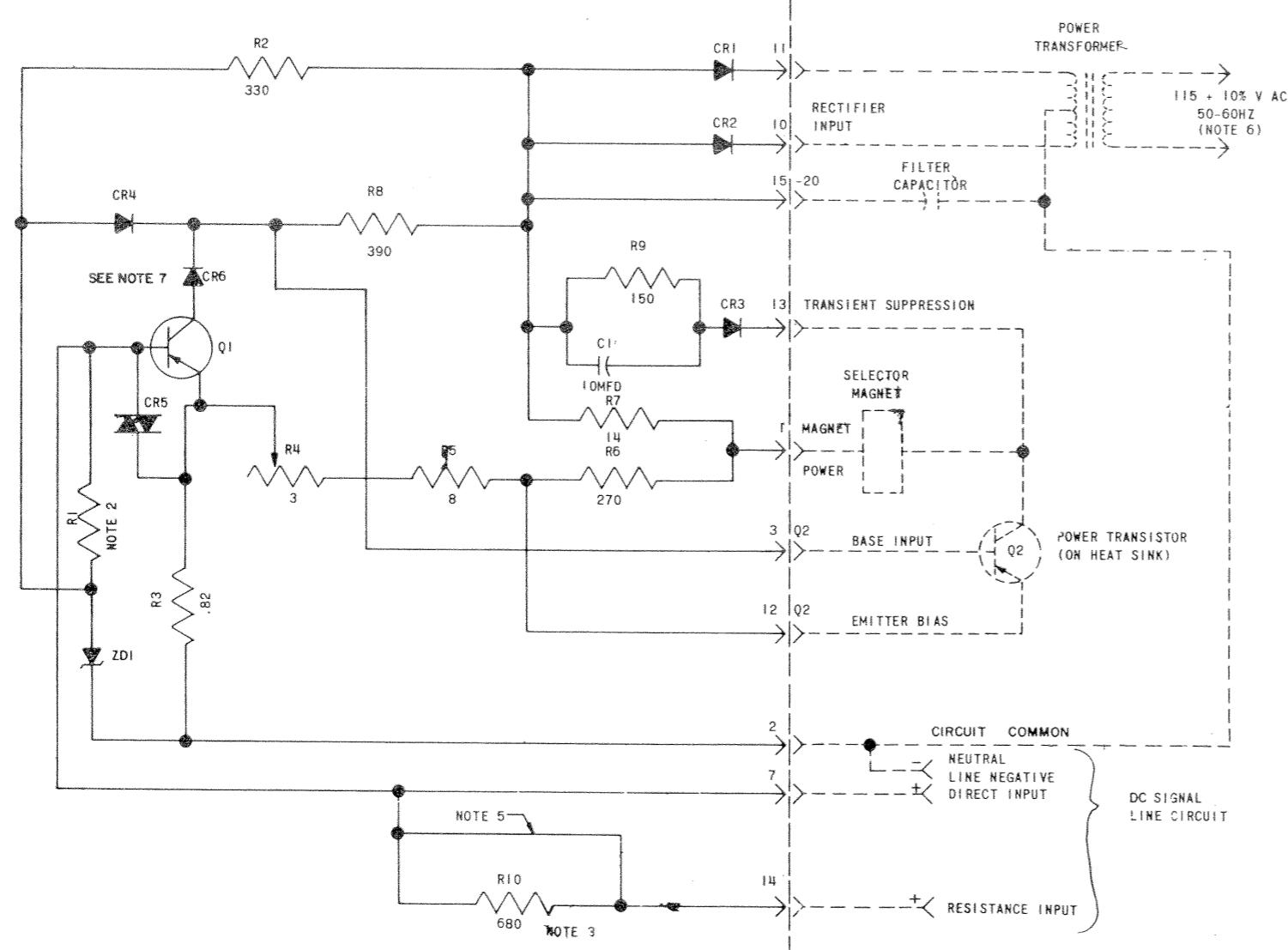
## REVISIONS

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
17A	3-3-71	2320

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 040 A NEU 182632



## CONSTANT CURRENT .500 SELECTOR MAGNET DRIVER



CARD CIRCUITY

EXTERNAL CIRCUITY

CIRCUIT CARD ASSEMBLY					
REF. DESIG.	TELETYPE PART NO.	TOTAL QTY.	NAME & DESIGNATION	LOCATING FUNCTION	USED ON
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 "
SELECT ONE SEE NOTE 2					
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	39603PM	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 4W	Q1 Collector Load	
R9	182776	1	RESISTOR 150 OHMS 1/2W	Q2 Collector Load	
					TRANSIENT LIMITING
CRI	182520	2	DIODE IN3193	POWER RECTIFIER	
CR2	182520	2	SAME AS CRI	POWER RECTIFIER	
CR3	181619	2	DIODE IN482	COLLECTOR	
CP4	181619	1	SAME AS CR3	TRANSIENT LIMITING	
CR5	178844	1	VARISTOR 100A	VOLTAGE CLAMPING	
CR6	199442	1	DIODE, IN270	INPUT PROTECTION	
ZD1	182774	1	DIODE, ZENER 4.7V 5% 1W	SEE NOTE 7	
CI	182628	1	CAPACITOR, 10 MFD, 25VDC	COLLECTOR	
Q1	181671	1	TRANSISTOR, HIGH GAIN	TRANSIENT LIMITING	
EC	182775	1	CIRCUIT BOARD, ETCHED	INPUT SWITCH	

## 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 CI.

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

D AND R  
HJK

E-NUMBER

PROD. NO. 182630-35

DATE 6-2-62

P.D. FILE NO. 30-158AA

DRAWN E.R. REG CHKD.

ENGD. R.J.M. APPD.

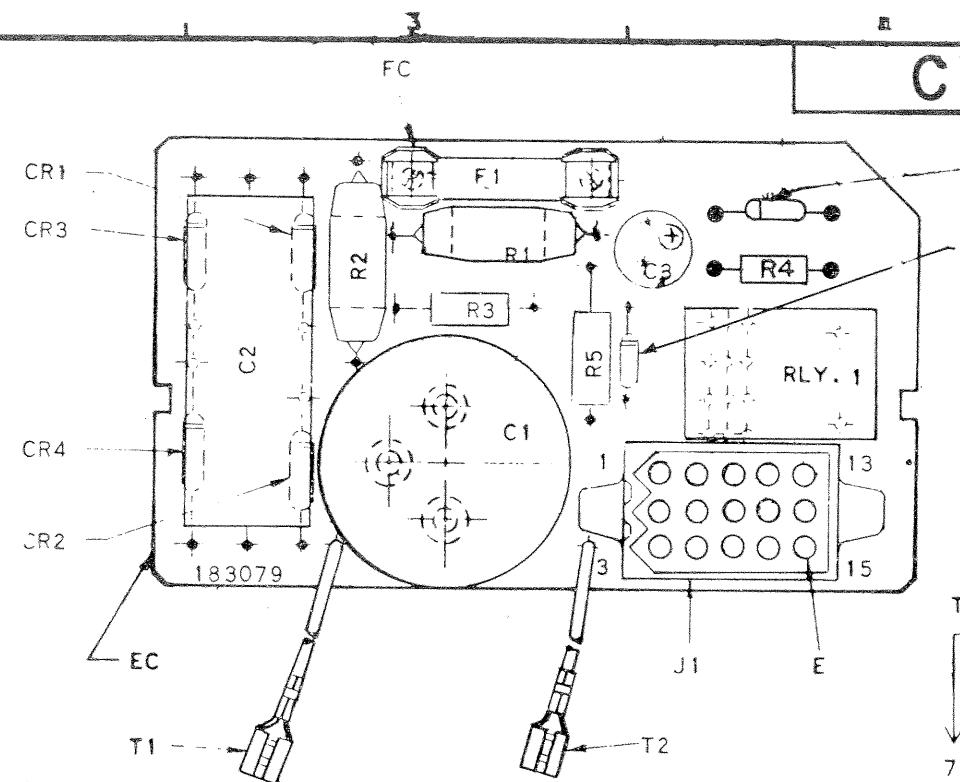
TELETYPE  
CORPORATION

182630-35

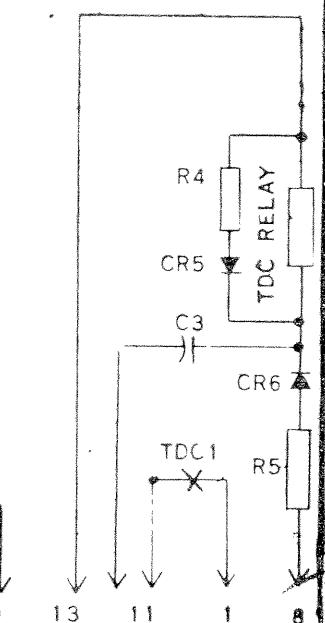
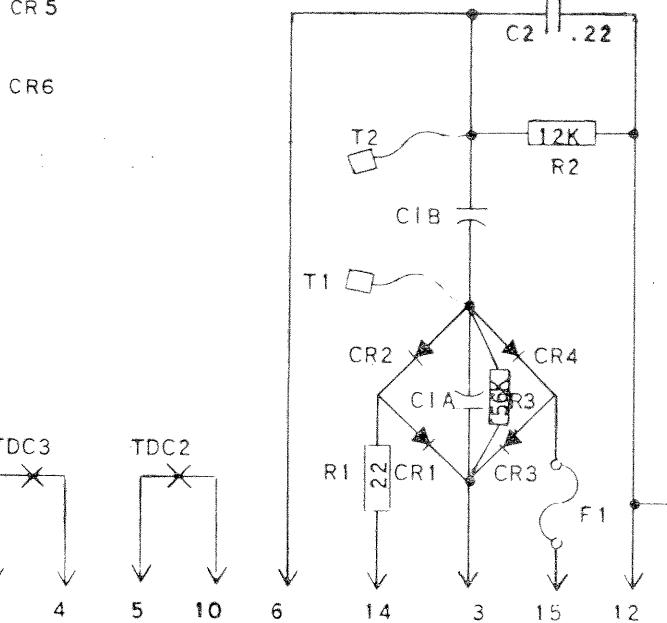
# CIRCUIT CARD ASSEMBLY

183079

PARTS REQ.	NO. REQ.	USED ON	NO. REQ.
		182149	
<b>REVISIONS</b>			
SUE 10			
2	12-2-63	79461	
3	3-3-64	80414	
4	5-6-64	81899	
5	11-29-66	88816-A	
6	8-21-68	95993	
7	10-8-68	96269-4	D
8	9-17-69	99187	
9	2-10-70	99187-2	
A	3-3-71	2320	



**POWER PACK ASSEMBLY, W/RELAY**



THIS POWER PACK CONSISTS OF A 150 VOLT POWER SUPPLY OPERATING DIRECTLY FROM THE 117V AC LINE, A WAVE SHAPING NETWORK, AND AN ARC SUPPRESSOR. IT IS DESIGNED TO OPERATE WITH AN INDUCTIVE LOAD OF APPROXIMATELY 100 OHMS BETWEEN TERMINALS 6 AND 12, WITH A 850 OHM, 40 WATT RESISTOR CONNECTED BETWEEN T1 AND T2.

TD FEED SWITCH IS CONNECTED BETWEEN TERMINALS 9 AND 3 THE UNIT IS DESIGNED TO DRIVE THE READER MAGNET IN THE MODEL 33 ASR SET.

TDC RELAY CONTACTS ARE USED FOR AUTOMATIC READER CONTROL.  
48V AC INPUT IS RECTIFIED THRU R5 AND CR6 BEFORE REACHING  
TDC RELAY. CAPACITOR C3 FILTERS TO GROUND THRU COMMON POINT  
OF TDC1.

**UL RECOGNITION SYMBOL  
REQUIRED PER MR 2001.**

DESIGNATION	TELETYPE PART NO.	TOTAL QTY.	DESCRIPTION	FUNCTION
R1	183083	1	RESISTOR, 22 OHM	SURGE LIMITER
R2	183082	1	RESISTOR, 12,000 OHM	ARC SUPPRESSOR
C1	183078	1	CAPACITOR, DUAL SECTION	
			A - 200 MFD, 200V DC	POWER SUPPLY FILTER
			B - 9 MFD, 200V DC	SURGE SOURCE
C2	183084	1	CAPACITOR, .22 MFD	ARC SUPPRESSOR
CR1	181654	6	DIODE, 400V	POWER SUPPLY RECTIFIER
CR2			SAME AS CR1	POWER SUPPLY RECTIFIER
CR3			SAME AS CR1	POWER SUPPLY RECTIFIER
CR4			SAME AS CR1	POWER SUPPLY RECTIFIER
F1	143630	1	FUSE, 3/4 A.F.B.	POWER SUPPLY PROTECTION SEE NOTE 2
FC	171595	2	FUSE CLIP	
T1	183085	2	TERMINAL WITH WIRE LEAD	
T2			SAME AS T1	
J1	182540	1	CONTACT BLOCK, 15 POINT	
E	182641	15	TERMINAL, MALE P.C.	
EC	183137	1	ETCHED CIRCUIT BOARD	
	151637	2	SCREW, 4-40 FIL. HEAD	
	110743	2	LOCKWASHER, 4-40	
	151880	2	NUT	
R3	118198	1	RESISTOR, 56,000 OHM	BLEEDER
CR6	181654		SAME AS CR1	RECTIFIER
R5	183119	1	RESISTOR, 470 OHM	VOLTAGE DROPPING
C3	183121	1	CAPACITOR, 15 MFD	FILTER
CR5	181654		SAME AS CR1	ARC SUPPRESSOR
R4	118180	1	RESISTOR, 10,000 OHM	ARC SUPPRESSOR
RLY.1	183088	1	RELAY, 2,100 OHM	AUTOMATIC READER CONTROL

SCALE:  $\frac{1}{1}$

## **STOCK SPECIFICATION**

DRAWN	PD FILE NO	DATE				
P.H.N.	1-47.60.AA	2-1-63	SIZE	KIND	SHAPE	TEMPER
DESIGNED	ENGINEER	CHECKED	APPROVED			
	T.Y.	RE	A			

## APPROVALS

**E AND R**  **E OR M**

**NUMBER**

MOD. NO. 183079

**TELETYPE**  
CORPORATION

183079

## CIRCUIT CARD ASSEMBLY

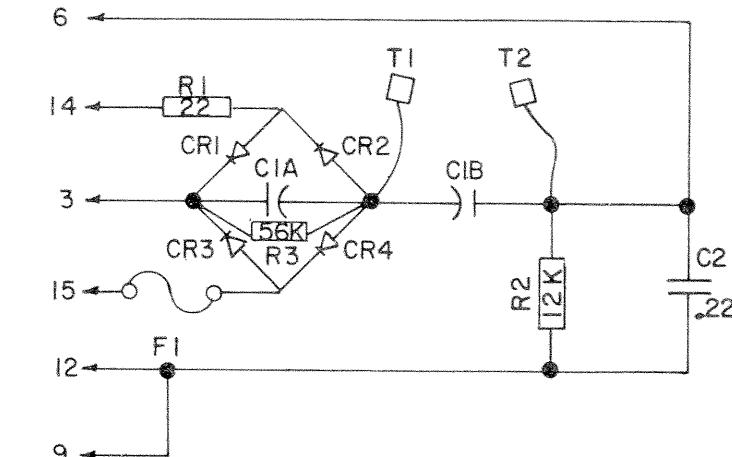
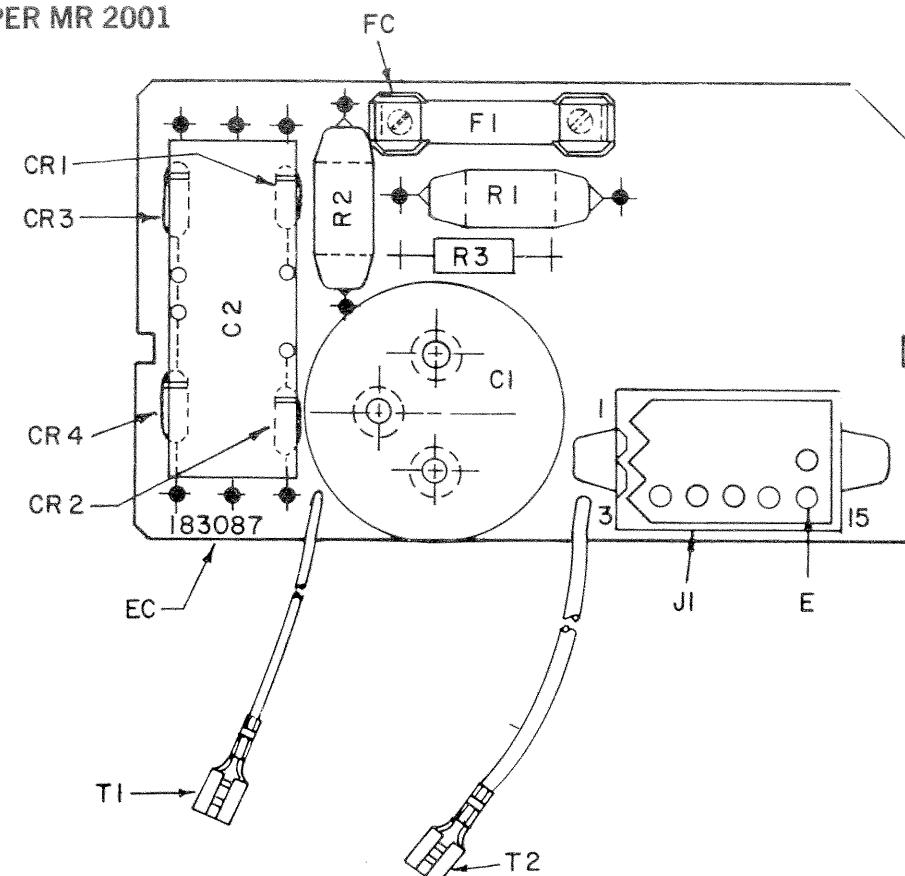
## POWER PACK ASSEMBLY

NO B/M

183087

ALL DIMENSIONS  $\pm$  UNLESS  
OTHERWISE SPECIFIEDUL RECOGNITION SYMBOL  
REQUIRED PER MR 2001

NO.	NOTES
1.	REFER TO 5851 WD FOR MARKING INFORMATION.
2	SOME PREVIOUS CIRCUIT CARD ASSEMBLIES USED 1/2 AFE. 3/4 AFE. IS PREFERABLE.



DESIGNATION	TELETYPE PART NO.	TOTAL QTY.	DESCRIPTION	FUNCTION
R1	183083	1	RESISTOR, 22 OHM	SURGE LIMITER
R2	183082	1	RESISTOR, 12,000 OHM	ARC SUPPRESSOR
C1	183078	1	CAPACITOR, DUAL SELECTION A-200 M.F.D. 200 V.D.C. B-9 M.F.D. 200 V.D.C.	POWER SUPPLY FILTER
C2	183084	1	CAPACITOR, .22 M.F.D.	SURGE SOURCE
CRI	181654	4	DIODE, 400 V.	ARC SUPPRESSOR
CR2		"	"	POWER SUPPLY RECTIFIER
CR3		"	"	"
CR4		"	"	"
F1	143630	1	FUSE, 3/4 A. F.B.	POWER SUPPLY PROTECTION SEE NOTE 2.
FC	171595	2	FUSE CLIP	
T1	183085	2	TERMINAL WITH WIRE LEAD	
T2		"	"	
J1	182540	1	CONTACT BLOCK, 15 POINT	
E	182641	6	TERMINALS MALE P.C.	
EC	183080	1	ETCHED CIRCUIT BOARD	
I51637	2		SCREW 4-40 FIL HEAD	
I10743	2		LOCK WASHER #4	
I51880	2		NUT	
R3	118198	1	RESISTOR, 56,000 OHM	BLEEDER

THIS POWER PACK CONSISTS OF A 150 VOLT POWER SUPPLY OPERATING DIRECTLY FROM THE 117 VAC LINE. A WAVE SHAPING NETWORK AND AN ARC SUPPRESSOR. IT IS DESIGNED TO OPERATE WITH AN INDUCTIVE LOAD OF APPROXIMATELY 100 OHMS BETWEEN TERMINALS 6 AND 12. WITH A 850 OHM 40 WATT RESISTOR CONNECTED BETWEEN T1 AND T2.

AN ON-OFF CONTROL SWITCH IS CONNECTED BETWEEN TERMINALS 9 AND 3. THE UNIT IS DESIGNED TO DRIVE THE READER MAGNET IN THE MODEL 32 AND 33 ASR.

SCALE: 1/1

## STOCK SPECIFICATION

DRAWN T.R.	PD FILE NO	DATE					
	I-47.60AA	6-7-62					
DESIGNED	ENGINEER	CHECKED	APPROVED	SIZE	KIND	SHAPE	TEMPER
J.A.J.	A.A.H.	B.W.M.B.					

WDP

## APPROVALS

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

## E. NUMBER

PROD.NO. 183087

TELETYPE  
CORPORATION

183087