

5 TO 8-LEVEL UNIVERSAL STATION CONVERTERS
SCHEMATIC WIRING DIAGRAMS

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2. INDEX	1

1. INTRODUCTION

1.01 This section contains the schematic wiring diagrams for the 5 to 8-level Signal-

to-Tape and Tape-to-Tape Universal Station Converter Terminals.

1.02 The location of each wiring diagram is indicated by its position in the index. The index also lists the subject matter of each wiring diagram, and its current issue.

1.03 For wiring information concerning the mechanical units associated with the converter terminals, refer to the appropriate section.

2. INDEX

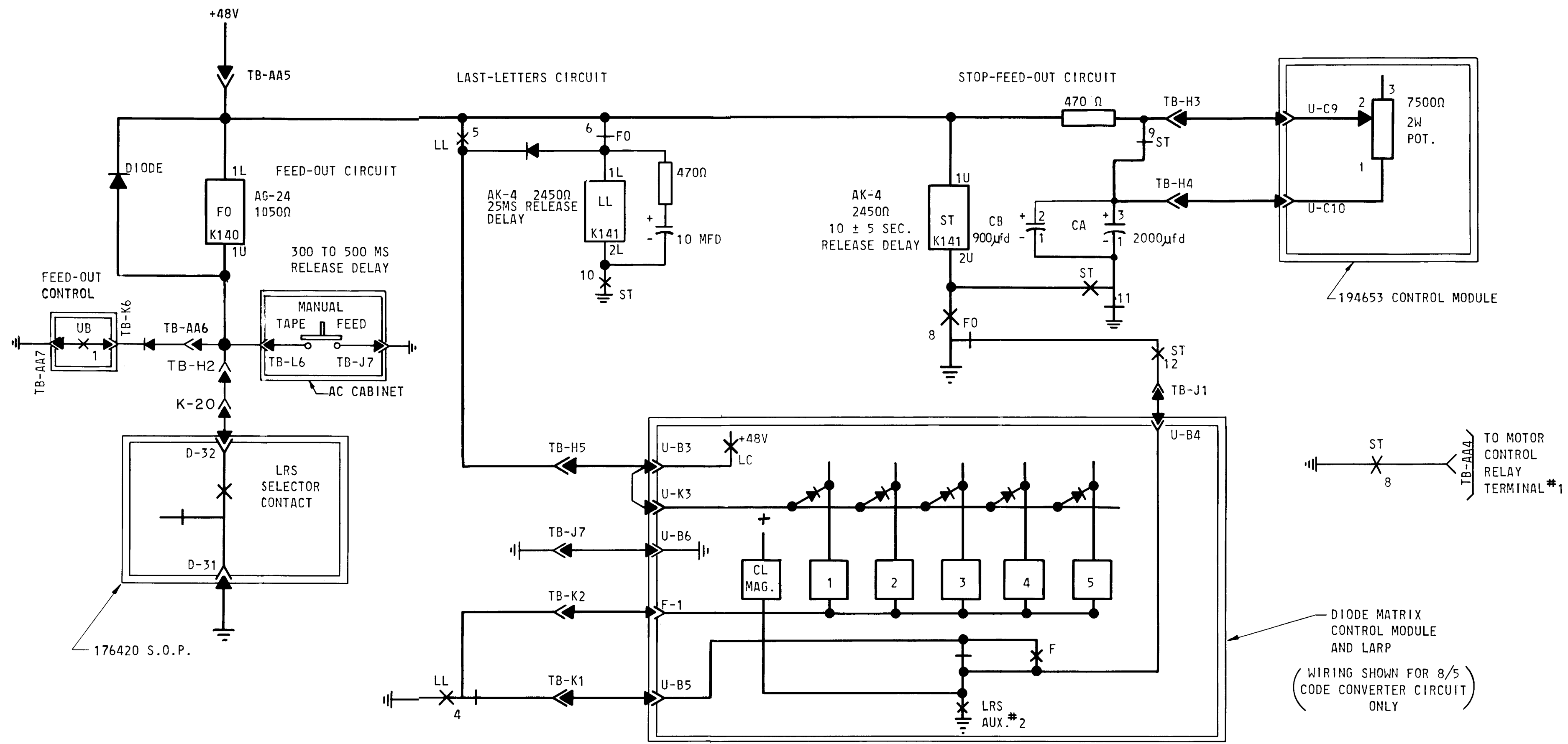
SUBJECT	DRAWING NO.	ISSUE					
		1	2	3	4	5	6
Automatic LTRS Feed-Out Assembly, TP-194595	5887	A					
Selector Magnet Driver, TP-194300	5949						
35A and 35B Converter-Reader	6021						
Service Unit, TP-194605	6023						
Feed-Out Assembly, TP-194608	6037						
Transfer Tree Module, TP-194670	6039						
Transfer Tree Module, TP-194670	6081						
35A and 35B Converter-Selector	6083						
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Translation Chart for TP-194719 Cable Assembly	6371						

Attached:
Teletype Corporation
Wiring Diagrams (WD)

5887 WD

ISSUE	DATE	AUTH. NO.

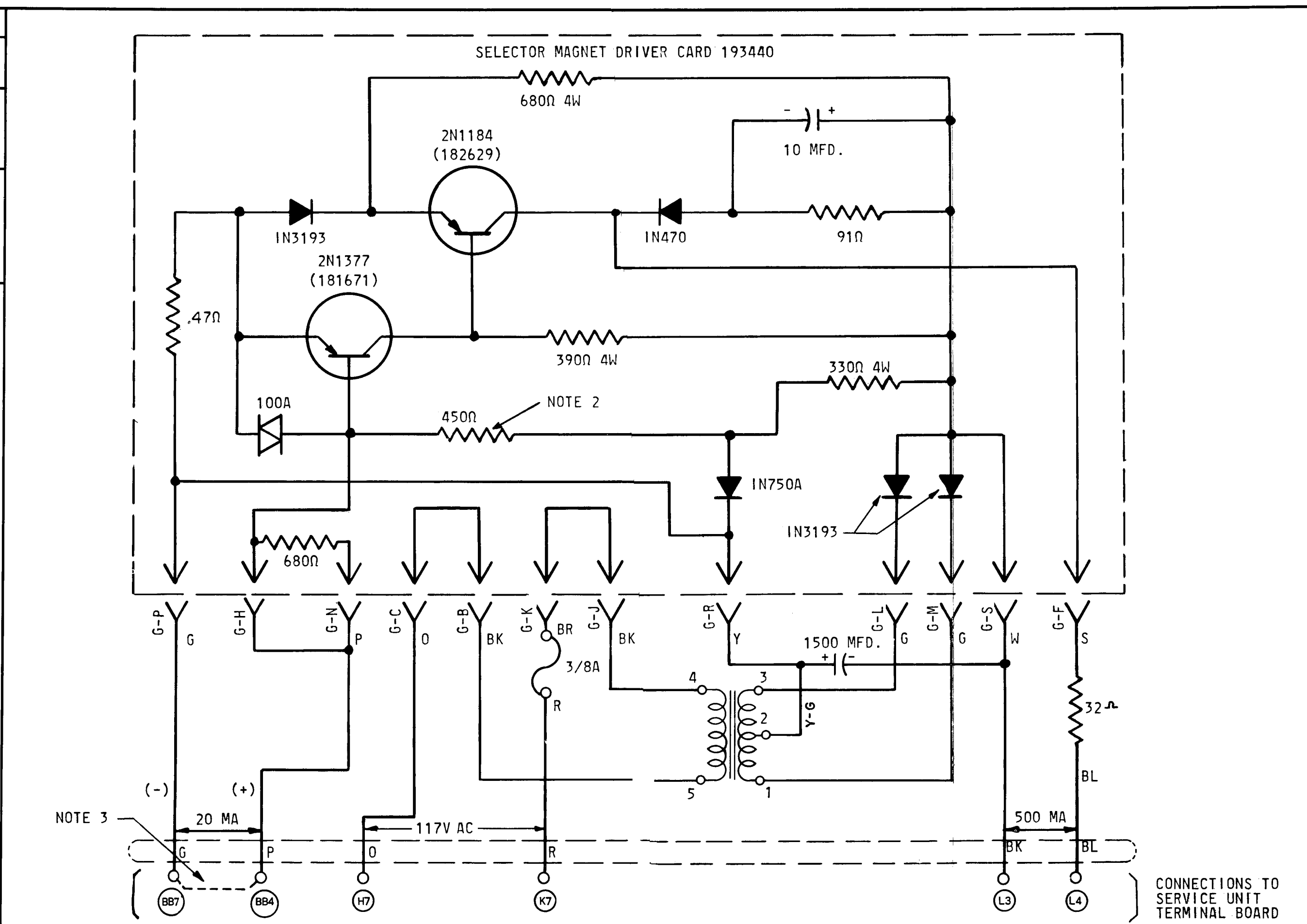
- NO. NOTES
1. REFER TO 6084 AND 6036WD FOR WIRING LIST.
2. CONNECTIONS "TB" ARE ON 194636 TERMINAL BOARD LOCATED ON 194605 SERVICE UNIT.



SCHEMATIC
AUTOMATIC
"LTRS" FEED OUT
194595 ASSEMBLY

APPROVALS	
D AND R	E OF M
E-NUMBER	
PROD. NO. 5887WD	
DATE: 8-17-62	
P.D. FILE NO. 3-95AAA	
DRAWN. E.R. CHKD. [Signature]	
ENGD. P.H.B. APPD. [Signature]	
TELETYPE CORPORATION	
5887 WD	

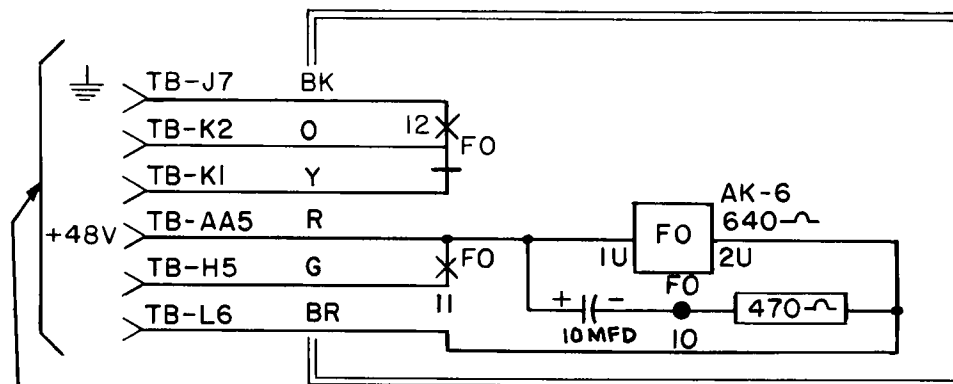
NO.	NOTES
1.	REFER TO 5826WD AND 6035WD FOR ACTUAL AND WIRING LIST.
2.	CIRCUIT IS WIRED FOR .020 A SIGNAL LINE INPUT. FOR .060A INPUT, 450 OHM RESISTOR MUST BE CHANGED TO 140 OHM.
3.	IN ORDER TO BLIND THE SELECTOR MAGNET DRIVER TO LINE SIGNALS AND MAINTAIN A STEADY MARK OUTPUT, THE FOLLOWING CHANGE IS RECOMMENDED; ADD A STRAP ACROSS TERMINALS BB7 AND BB4



5949WD		
ISSUE	DATE	AUTH. NO.

SELECTOR MAGNET DRIVER ASSEMBLY 193400 USED ON 194605 SERVICE UNIT ASSEMBLY	
APPROVALS	
D AND R <i>[Signature]</i>	E OF M <i>[Signature]</i>
E-NUMBER	
PROD. NO. 5949WD	
DATE: 8-25-62	
P.D. FILE NO. 3-95AAA	
DRAWN G.M.	CHKD. <i>[Signature]</i>
ENGR. P.H.B.	APPD. <i>[Signature]</i>
TELETYPE CORPORATION	
5949WD	

NO	NOTES
1	REFER TO 6022WD FOR ACTUAL WD.
2	"TB" NUMBERS INDICATE CONNECTIONS TO TERMINAL BOARD IN 194605 SERVICE UNIT ASSEMBLY.



REFER TO 6037 WD FOR TERMINAL ROUTING.

MERCURY SWITCH

WINDER MOTOR

LOW-TAPE CONTACTS

AC CABINET CABLE CONNECTOR "K" (6085 WD)

FRAME GND.

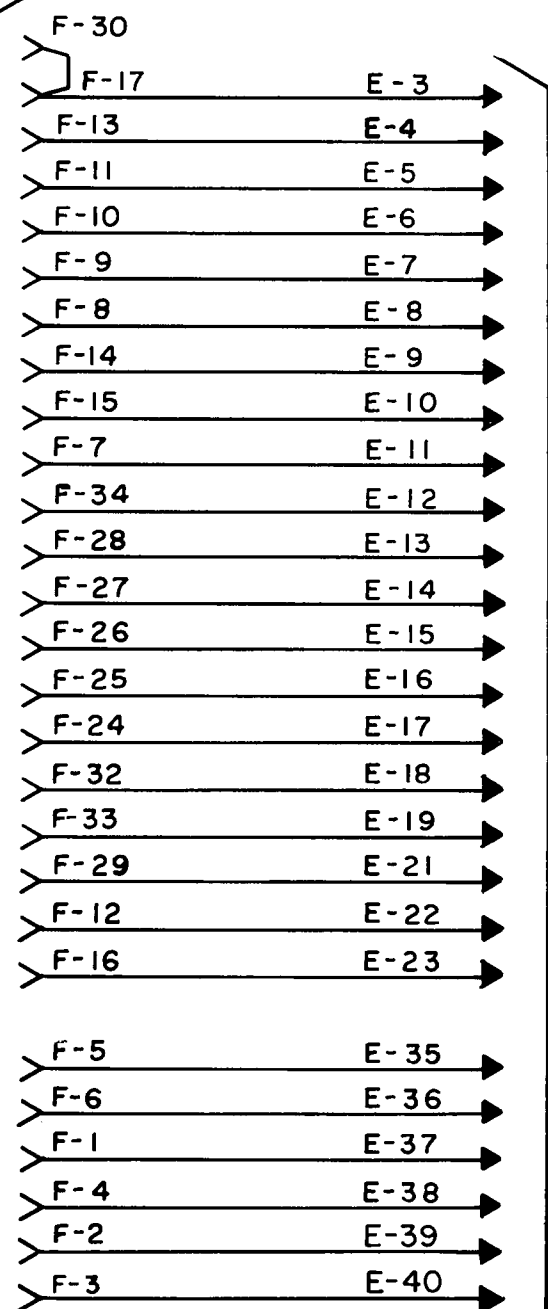
LMU 19 MOTOR

194608 FEED OUT ASSEMBLY "FO"

AC CABINET CABLE CONNECTOR "K" (6085 WD)

CONNECTOR "E" AC 117V (6085 WD)

LX TRANSMITTER CONNECTOR "H" (5954 WD OR 5879 WD)



6021WD

ISSUE	DATE	AUTH. NO.

SCHEMATIC WIRING DIAGRAM

VCL 283 AND VCL 316

APPROVALS

D AND R E OF M

E-NUMBER

PROD. NO. 6021 WD

DATE: 2-1-63

P.D. FILE NO. 3-95 AAA

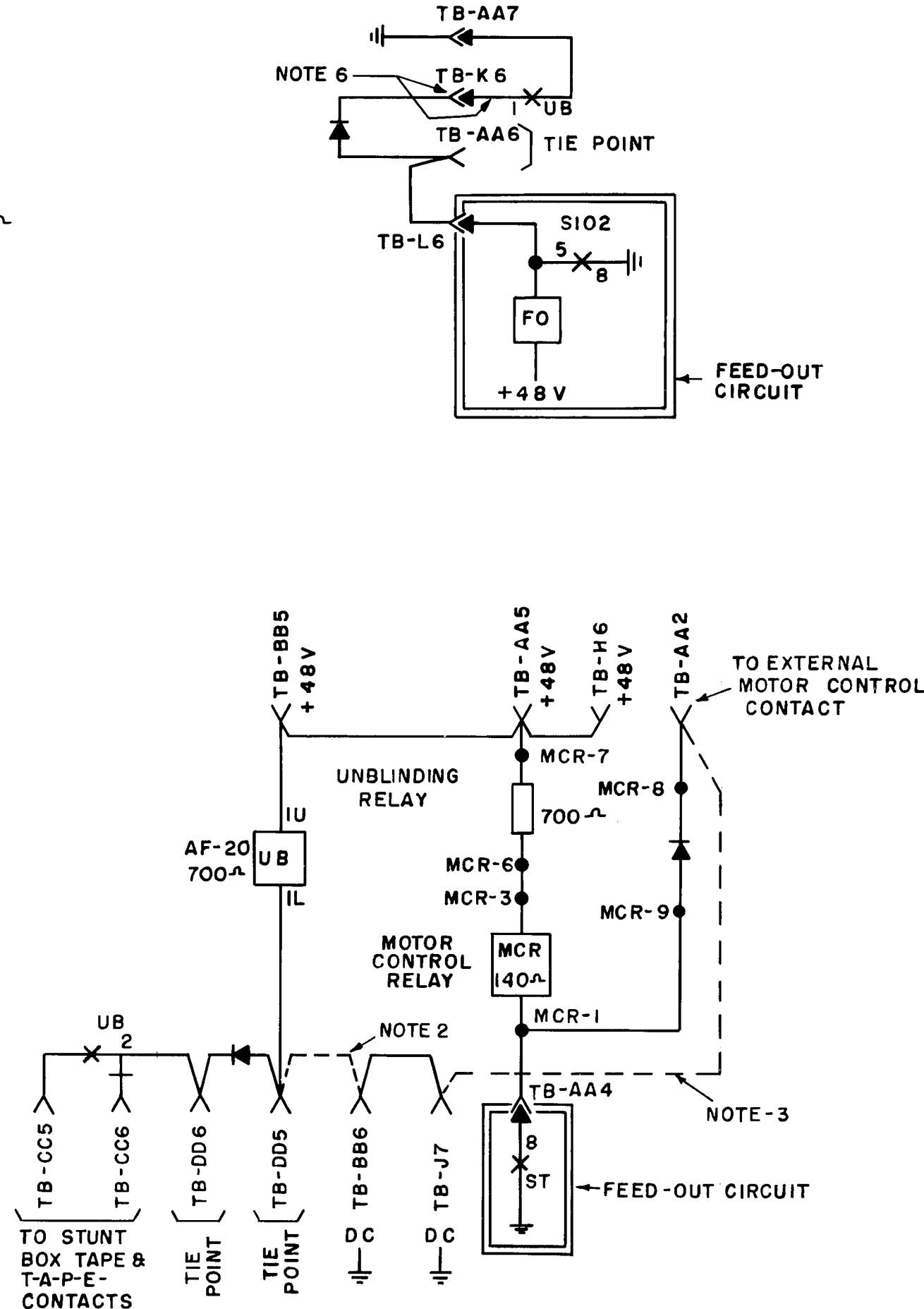
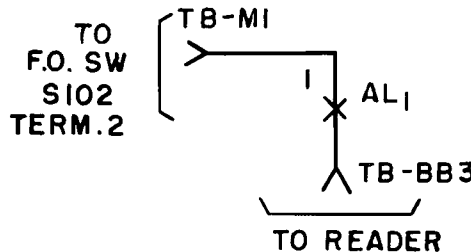
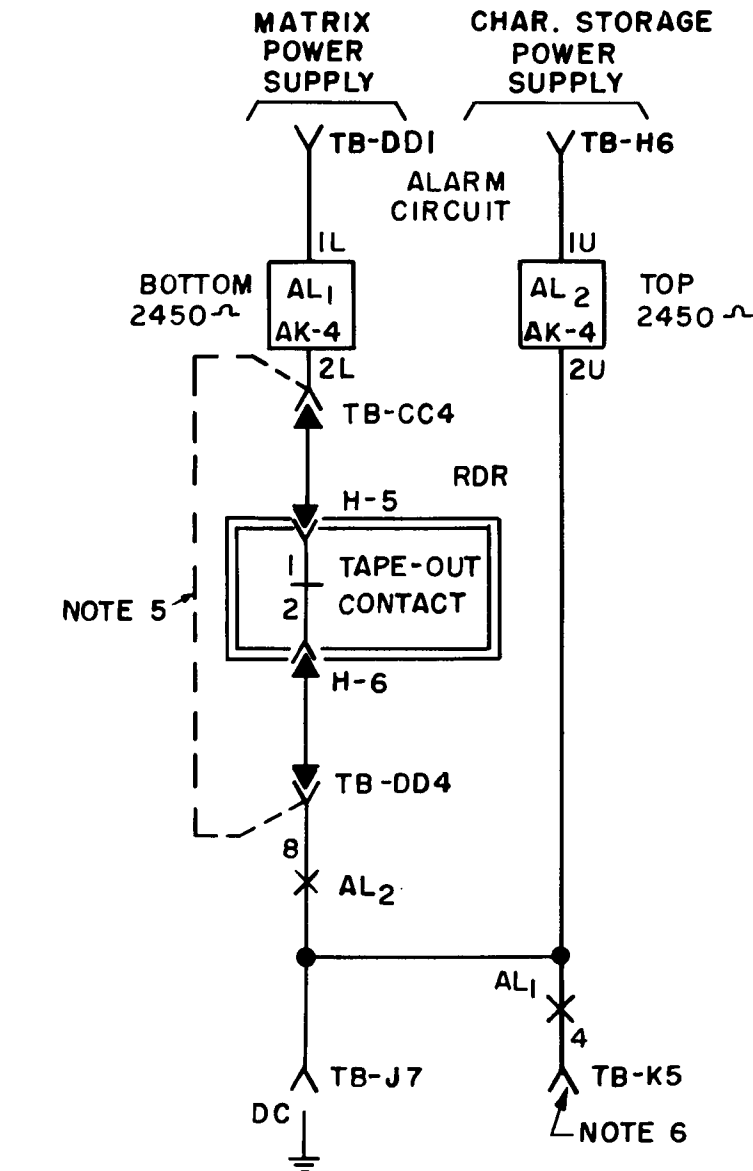
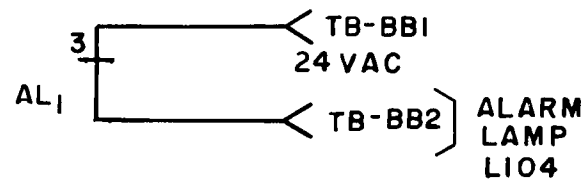
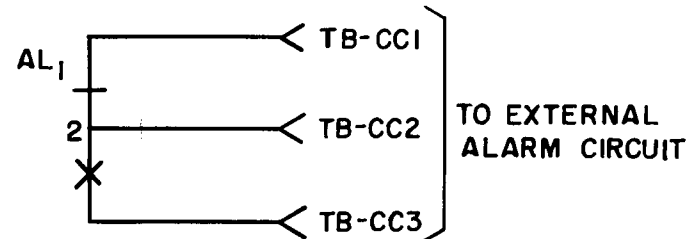
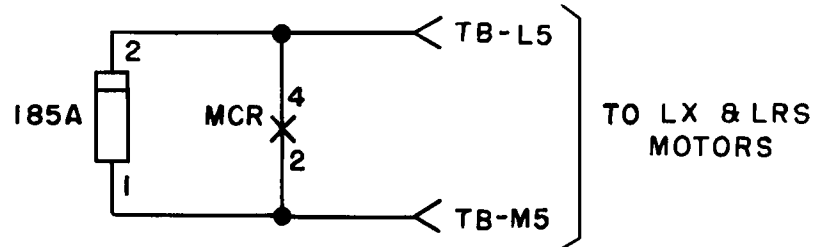
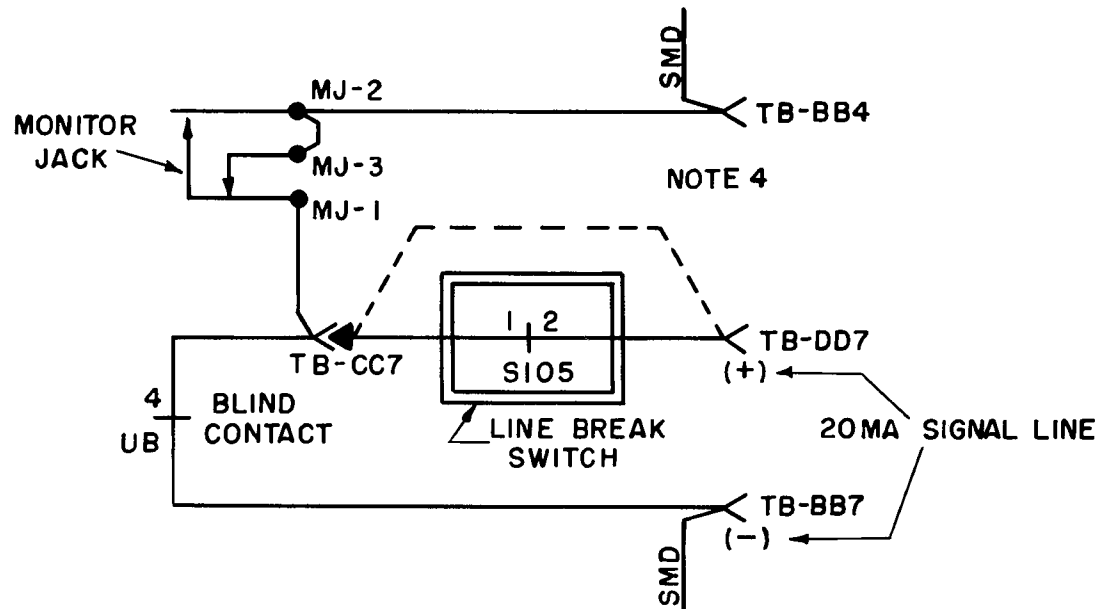
DRAWN. CG CHKD. *[Signature]*

ENG. PHB APP. *[Signature]*

TELETYPE CORPORATION

6021WD

NO	NOTES
1	FOR WIRING LIST REFER TO 6024 WD
2	ADD STRAP ACROSS DD5 AND BB6 TO DISABLE BLINDING CIRCUIT
3	ADD STRAP ACROSS AA2 AND J7 TO RUN MOTOR CONTINUOUSLY
4	ADD STRAP ACROSS CC7 AND DD7 TO DISABLE LINE BREAK KEY
5	ADD STRAP ACROSS CC4 AND DD4 WHEN CONVERTER IS USED AS A SIGNAL-TO-TAPE TRANSLATOR
6	STRAP TB-K5 TO TB-K6 WHEN AUTOMATIC LTRS FEED-OUT IS REQUIRED FOR TAPE-TO-TAPE CONVERTERS. REMOVE CONNECTION TO CONTACT 1 UB AND TIE BACK.



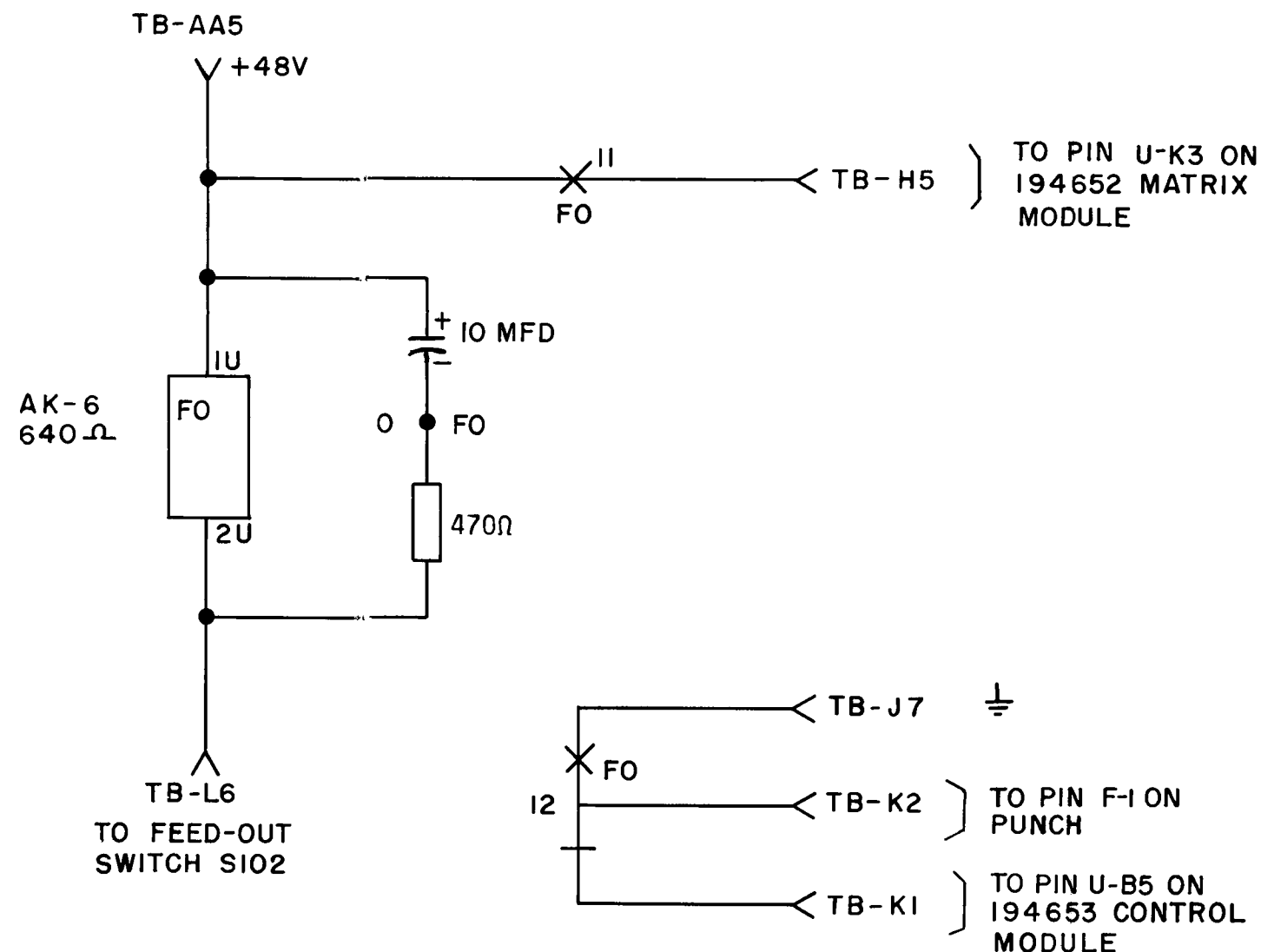
6023WD		
ISSUE	DATE	AUTH. NO.

SCHEMATIC WIRING DIAGRAM	
194605 SERVICE UNIT ASSEMBLY	

APPROVALS	
DANDR	E OF M
E-NUMBER	
PROD. NO 6023 WD	
DATE 1-17-63	
P.D. FILE NO 3-95 AAA	
DRAWN C G	CHKD. J K
ENGD PHB	APPD. J K
TELETYPE CORPORATION	
6023WD	

NO.	NOTES
1.	FOR ACTUAL WD REFER TO 6038 WD.
2.	"TB" NUMBERS INDICATE CONNECTIONS TO TERMINAL BOARD IN 194605 SERVICE UNIT ASSEMBLY. REFER TO 6021WD

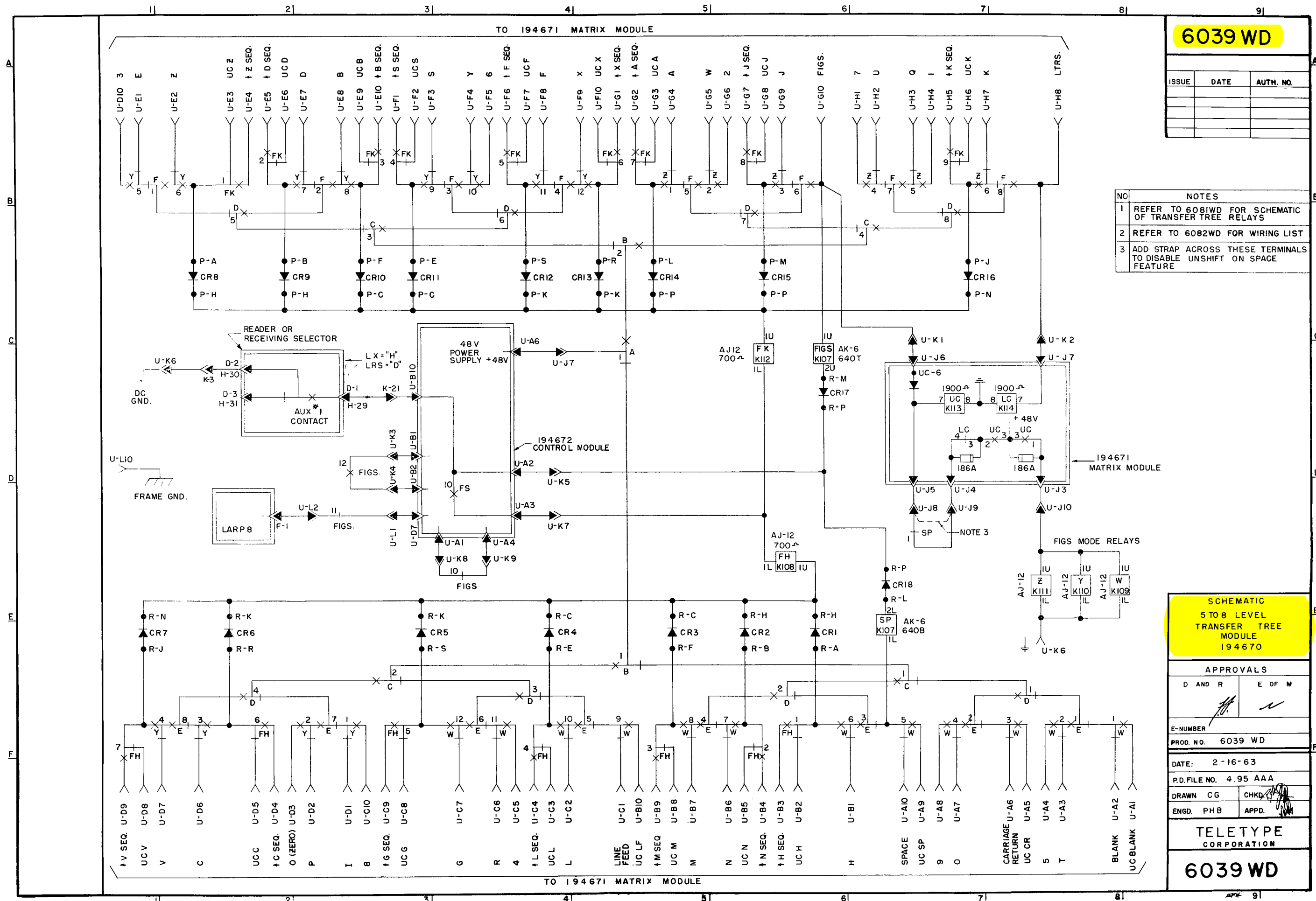
6037WD		
ISSUE	DATE	AUTH. NO.



SCHEMATIC WIRING DIAGRAM

194608 FEED - OUT ASSEMBLY

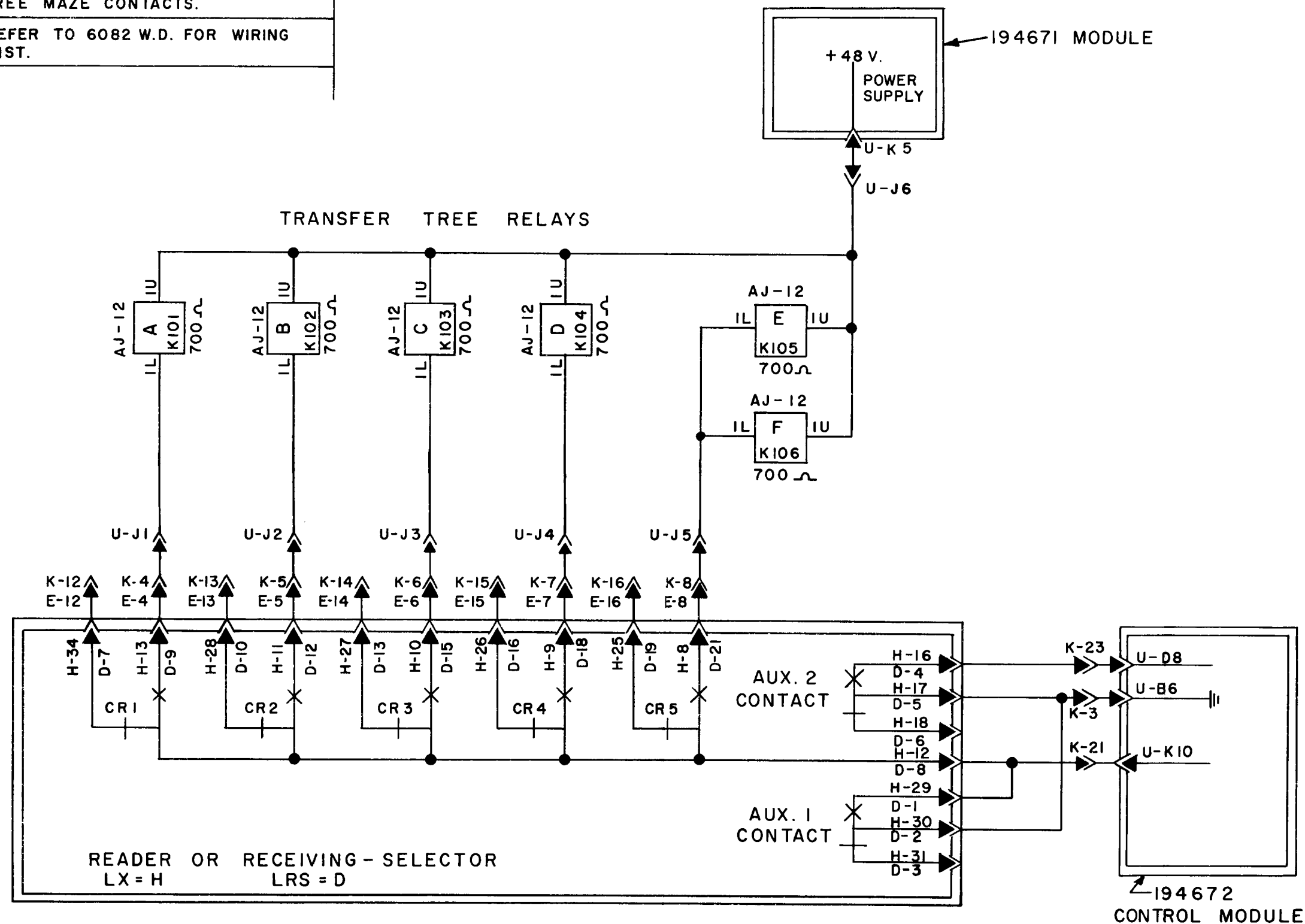
APPROVALS	
D AND R	E OF M
<i>HRK</i>	<i>[Signature]</i>
E-NUMBER	
PROD. NO. 6037 WD	
DATE: 1 - 3 - 63	
P.D. FILE NO. 3-95 AAA	
DRAWN. <i>CA</i>	CHKD. <i>[Signature]</i>
ENGD. <i>PHB</i>	APPD. <i>[Signature]</i>
TELETYPE CORPORATION	
6037WD	



NO.	NOTES
1.	REFER TO 6039 W.D. FOR TRANSFER TREE MAZE CONTACTS.
2.	REFER TO 6082 W.D. FOR WIRING LIST.

6081 WD

ISSUE	DATE	AUTH. NO.



SCHEMATIC 5 TO 8 LEVEL TRANSFER TREE MODULE 194670	
APPROVALS	
D AND B	E OF M
<i>[Signature]</i>	<i>[Signature]</i>
E-NUMBER	
PROD. NO. 6081 WD	
DATE: 2-14-63	
P.D. FILE NO. 4-95. AAA	
DRAWN. J.V.K.	CHKD. <i>[Signature]</i>
ENG. P.H.B.	APPD. <i>[Signature]</i>
TELETYPE CORPORATION	
6081 WD	

NO	NOTES
1	REFER TO 6084 WD FOR ACTUAL WD

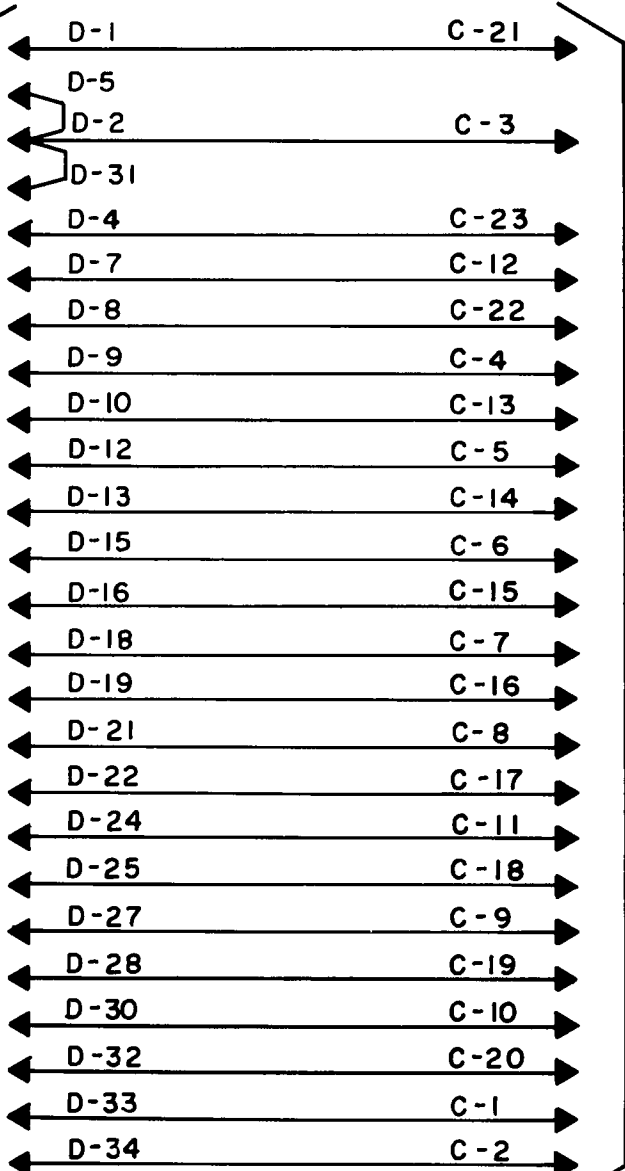
REFER TO
6085 WD FOR
CONNECTIONS

TB-K7	R	
TB-H7	O	AC 117 V
TB-L4	BL	
TB-L3	BK	500 MA
(+) TB-BB4	P	
(-) TB-BB7	G	20 MA SIGNAL

193400
SELECTOR MAGNET
DRIVER ASSEMBLY
"SMD"

6083 WD		
ISSUE	DATE	AUTH. NO.

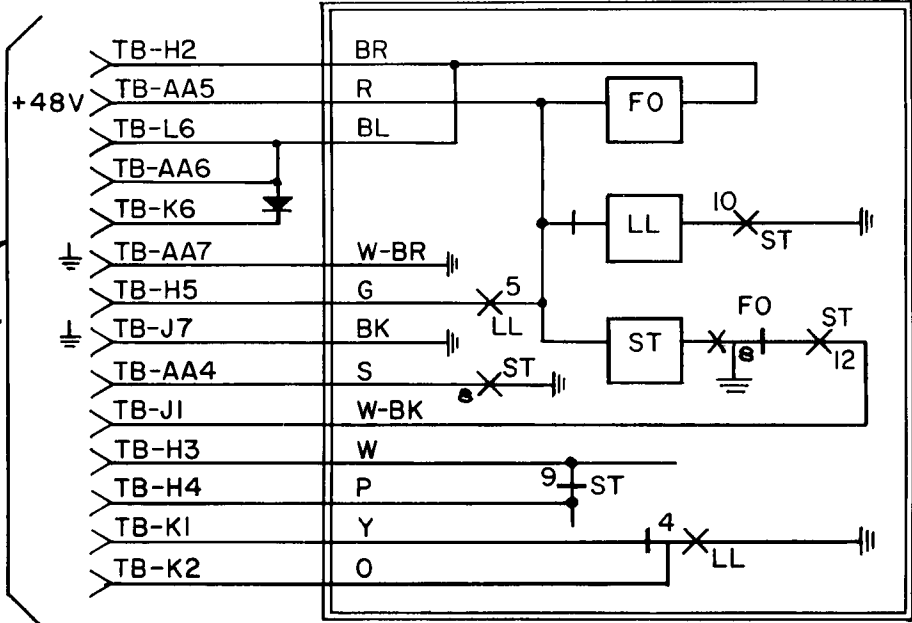
LRS RECEIVING-SELECTOR
CONNECTOR "D"
(5964 WD OR 5965 WD)



LOW-TAPE
CONTACTS

AC CABINET
CABLE CONNECTOR "K"
(6085 WD)

REFER TO
5887 WD FOR
CONNECTIONS.



AC CABINET
CABLE CONNECTOR "K"
(6085 WD)

SCHEMATIC
WIRING DIAGRAM

193400, 194595
AND 194706
ASSEMBLIES
VCL 2824
VCL 317

APPROVALS	
D AND R	E OF M
E-NUMBER	
PROD. NO.	6083 WD

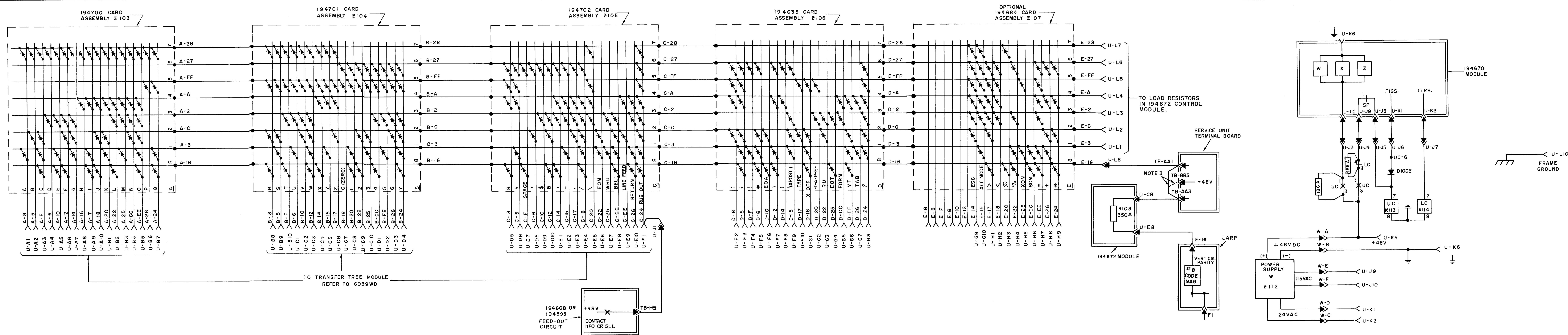
DATE:	2-2-63
P.D. FILE NO.	3-95 AAA
DRAWN. C G	CHKD. J K
ENG. R J K	APP. J K

TELETYPE
CORPORATION

6083 WD

194595
FEED OUT
ASSEMBLY "FO"

- NO. NOTES
1. REFER TO 6086WD FOR WIRING LIST
2. A-E CONNECTOR (56 PIN)
(J103 - J107) 193033
U CONNECTOR (110 PIN)
(J115) 174732
3. CONVERTER IS STRAPPED BETWEEN TB-AA1 AND TB-AA3 TO PRODUCE A VERTICAL PARITY BIT IN THE 8TH LEVEL IF CONTINUOUS MARKING IS DESIRED. REMOVE STRAP FROM TB-AA1 AND CONNECT TO TB-BB5



6087 WD

ISSUE DATE AUTH. NO.

1 2 3

SCHEMATIC WIRING DIAGRAM

5 TO 8 LEVEL
CODE CONVERTER
194671
DIODE
MATRIX ASSEMBLY

APPROVALS

D AND R E OF M

E-NUMBER

PROD. NO. 6087WD

DATE 2-25-63

PD. FILE NO 4-95AAA

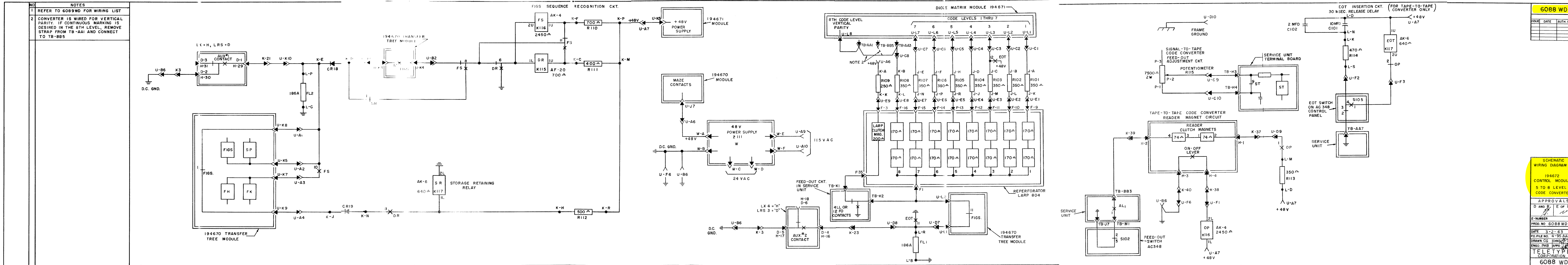
DRAWN CG CHKO

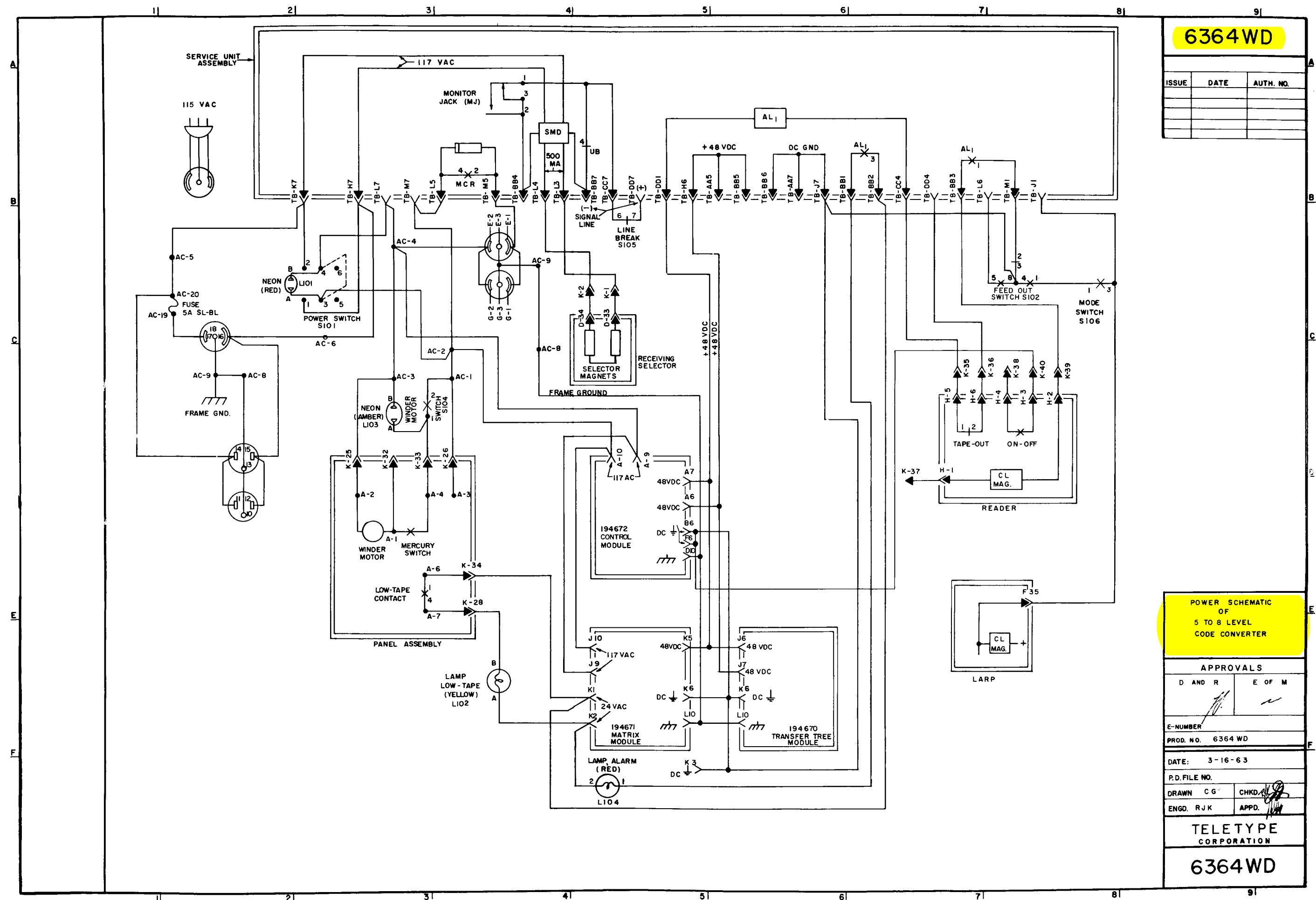
ENGR. PHB APPD

TELETYPE CORPORATION

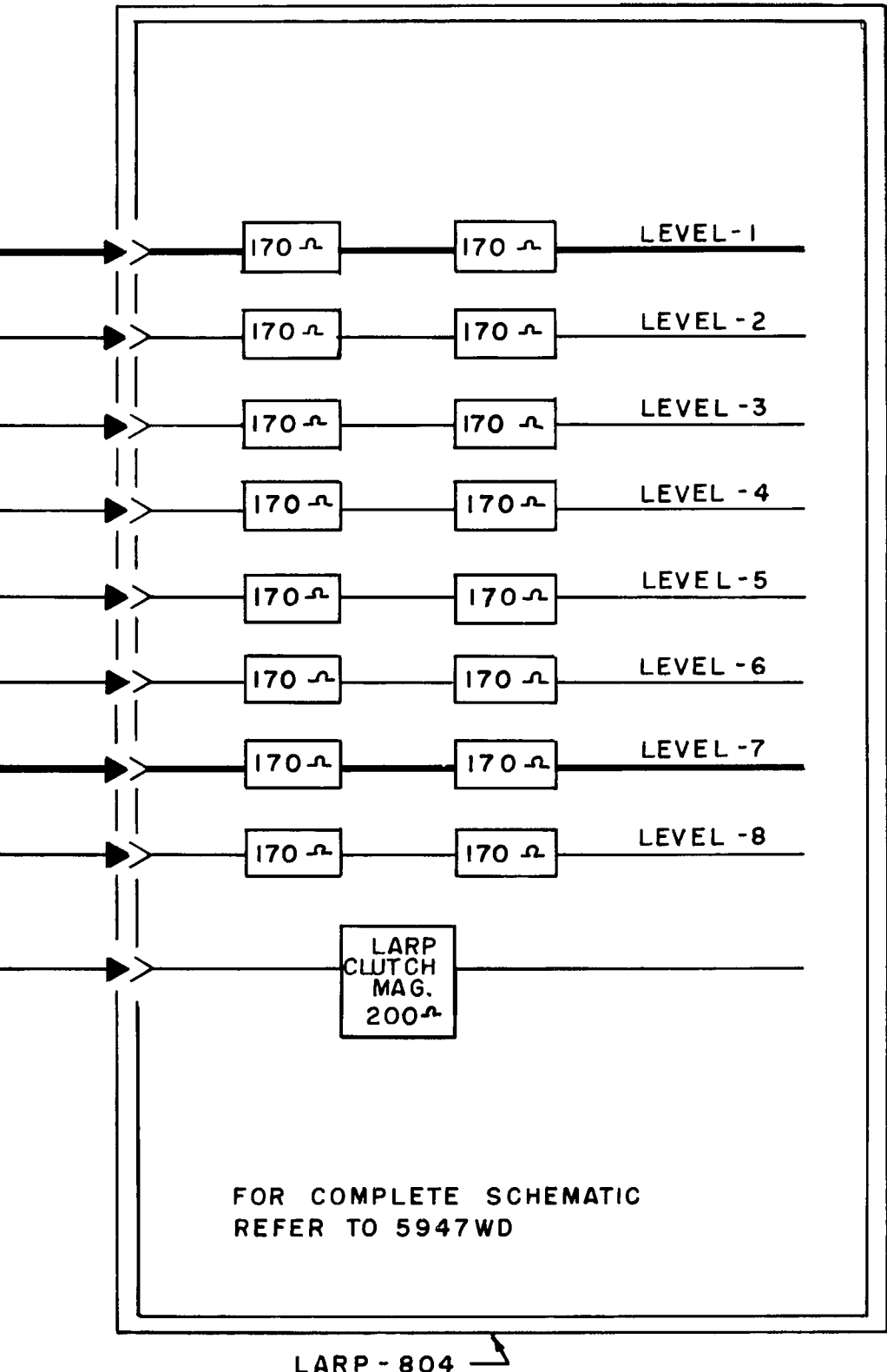
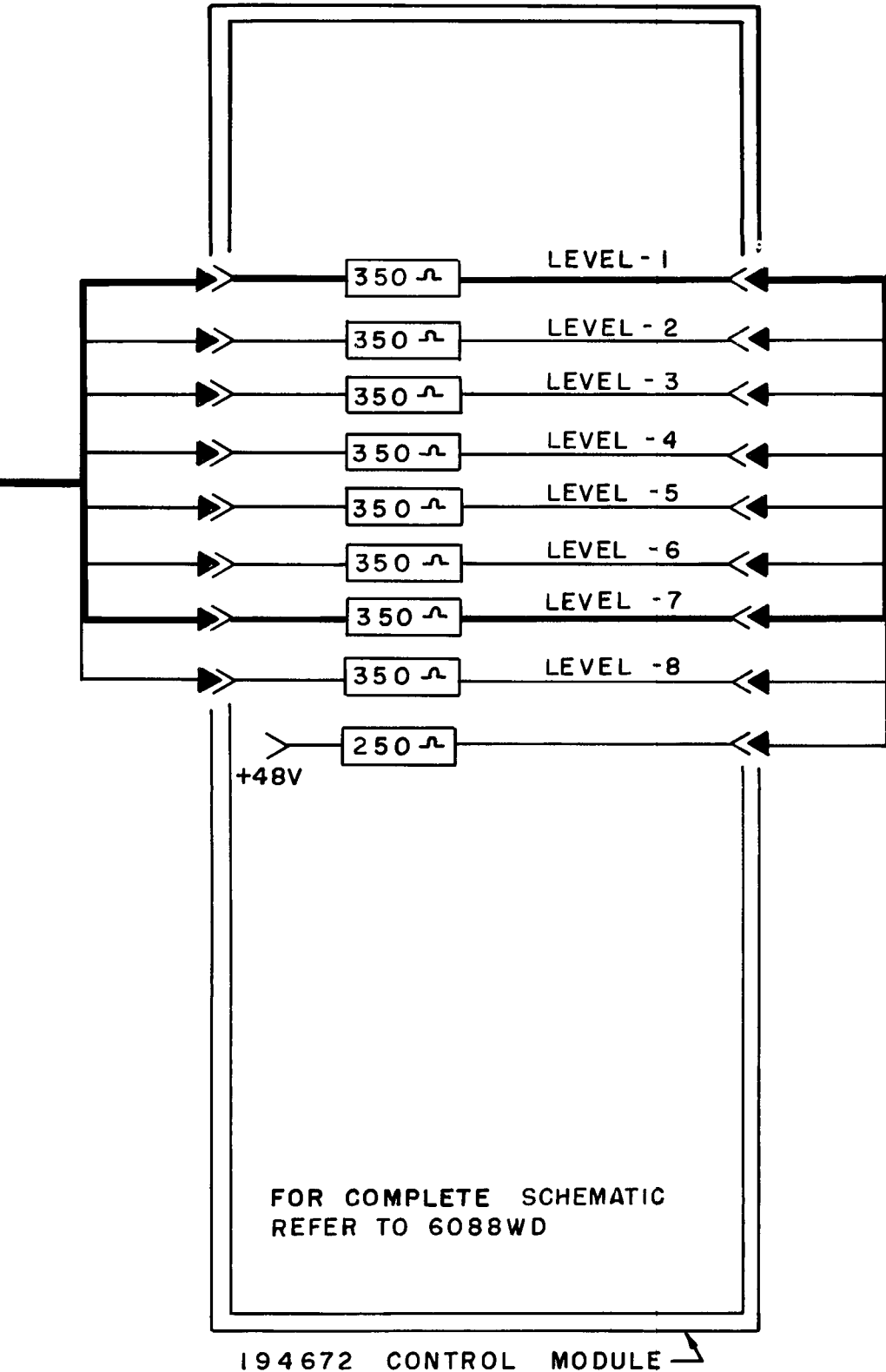
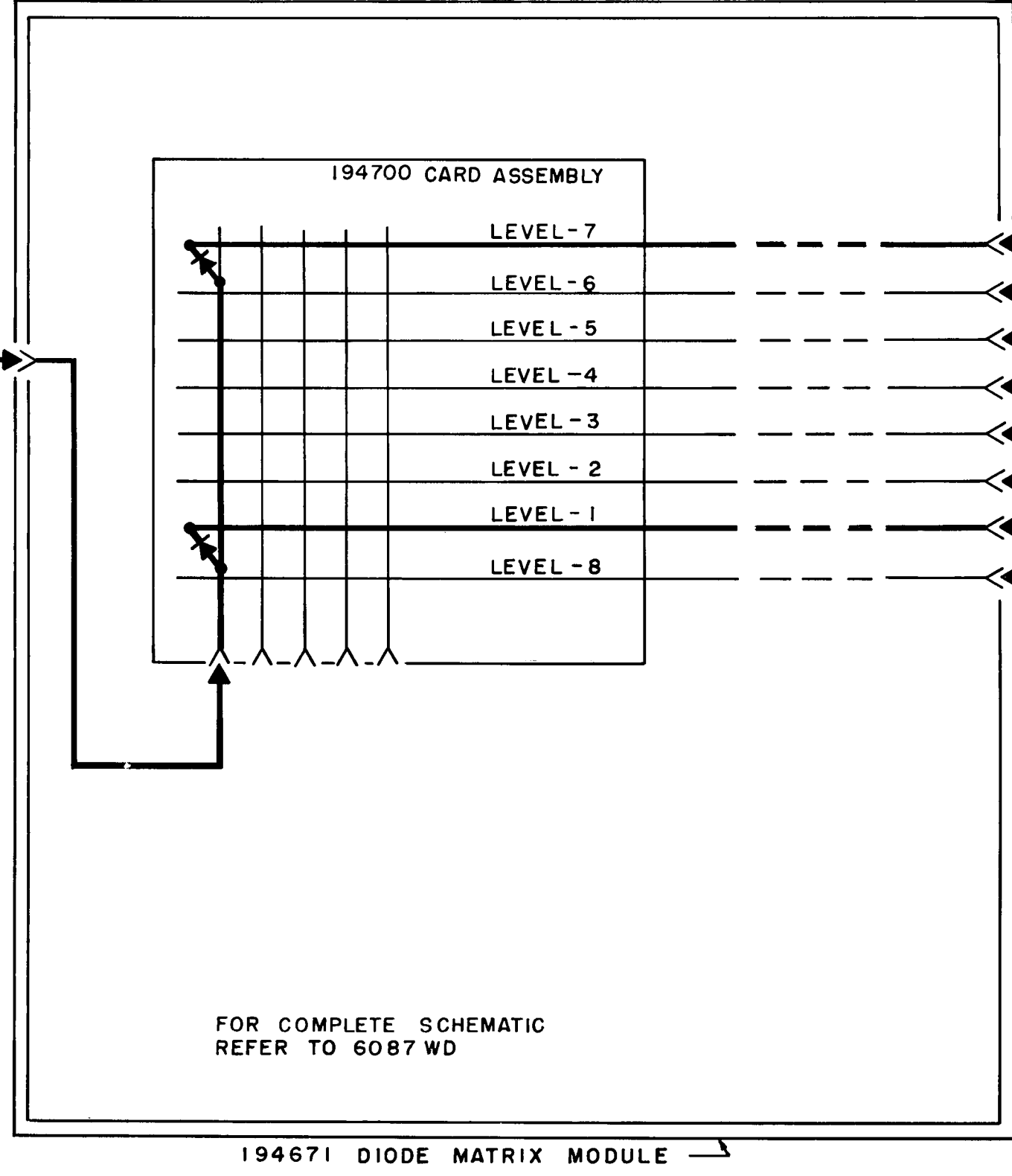
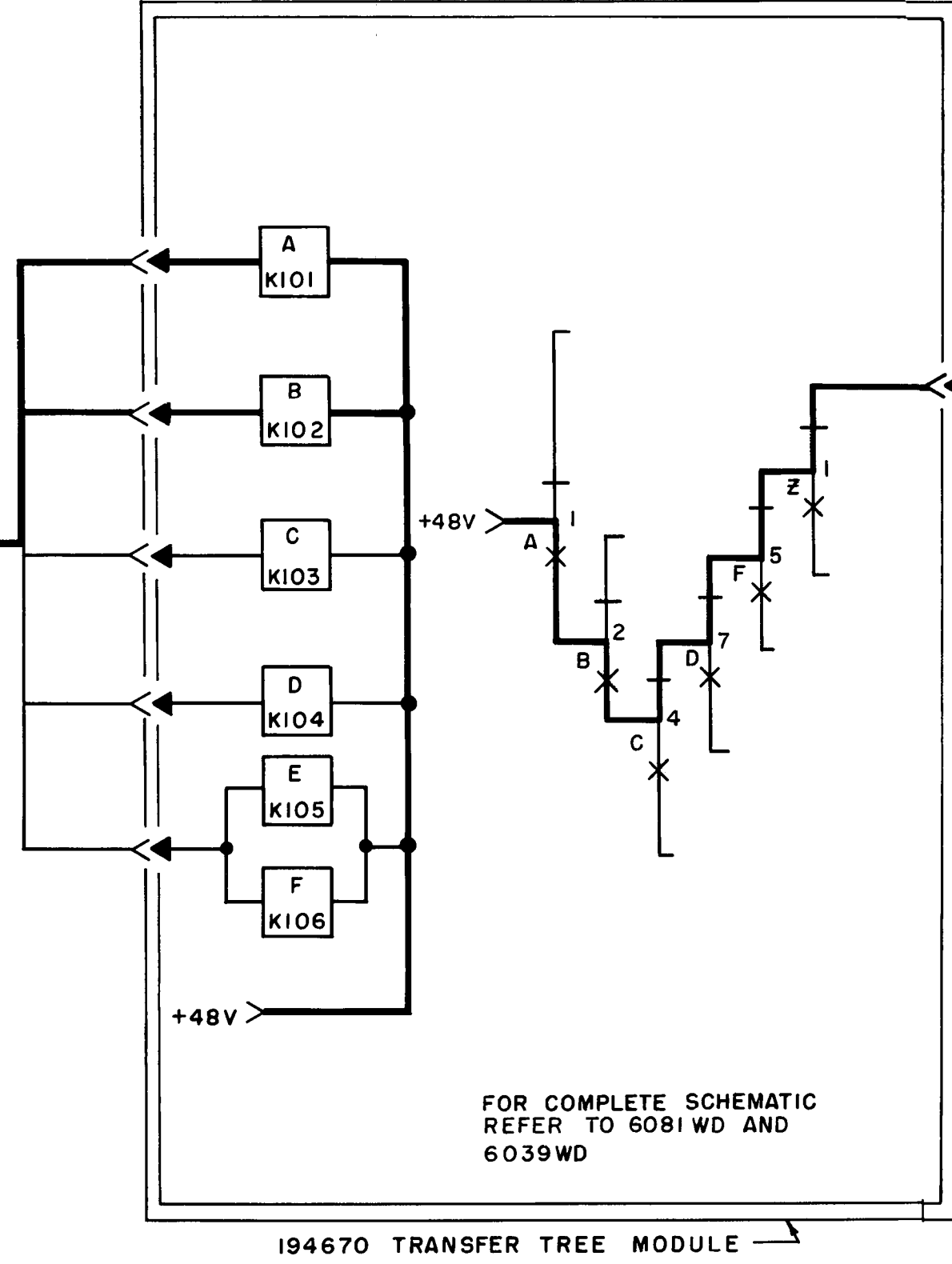
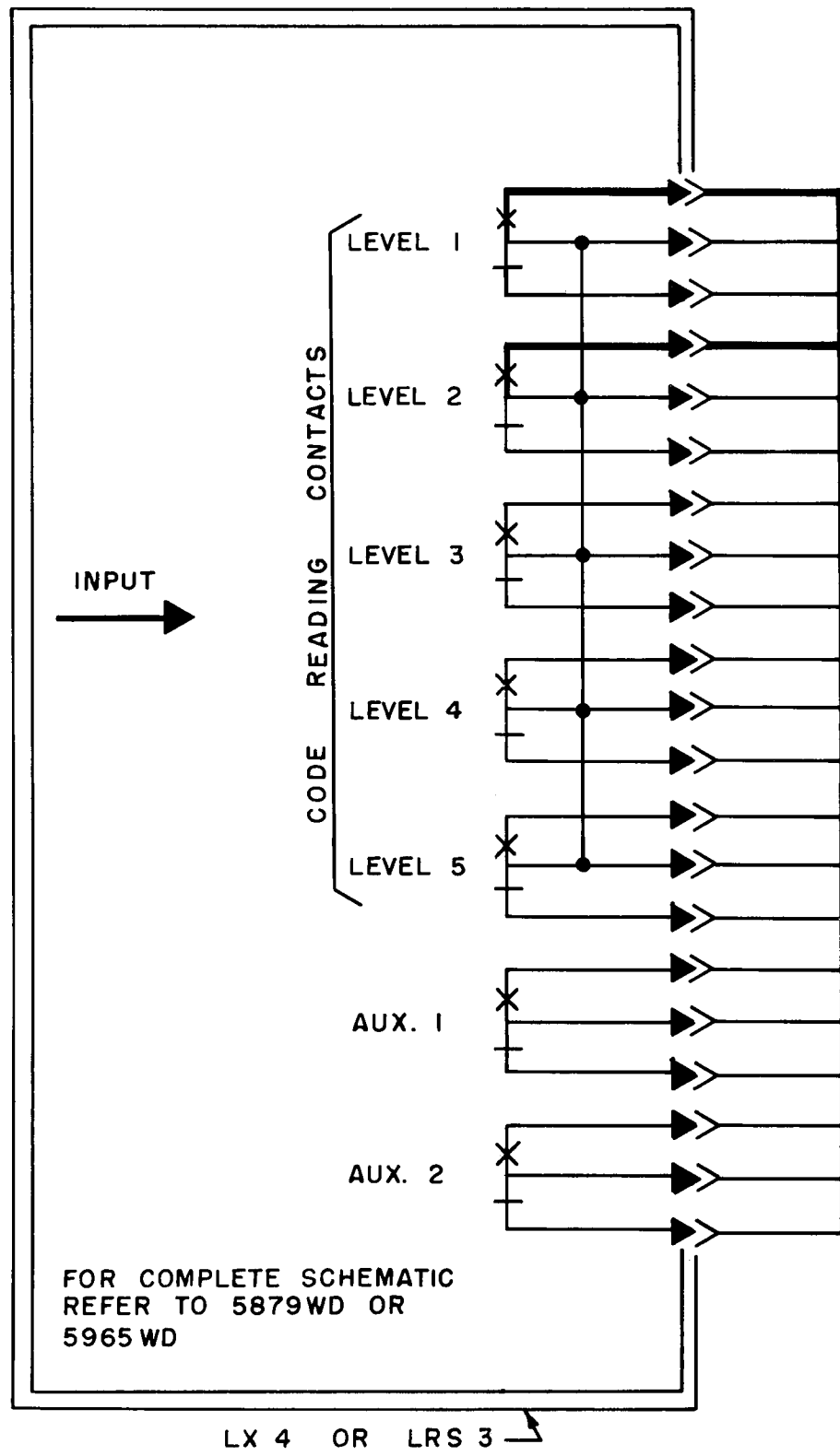
6087 WD

E-11





NO. NOTES
I. HEAVY LINES INDICATE THE PATH OF THE CHARACTER "A" THROUGH THE CONVERTER.



6365 WD

ISSUE	DATE	AUTH. NO.

TRANSLATION
SCHEMATIC
OF
5-TO-8 LEVEL
CODE
CONVERTER

APPROVALS

D AND R E OF M

E-NUMBER

PROD. NO. 6365WD

DATE 3-19-63

P.D. FILE NO.

DRAWN CG CHKD

ENG. RJK APPD.

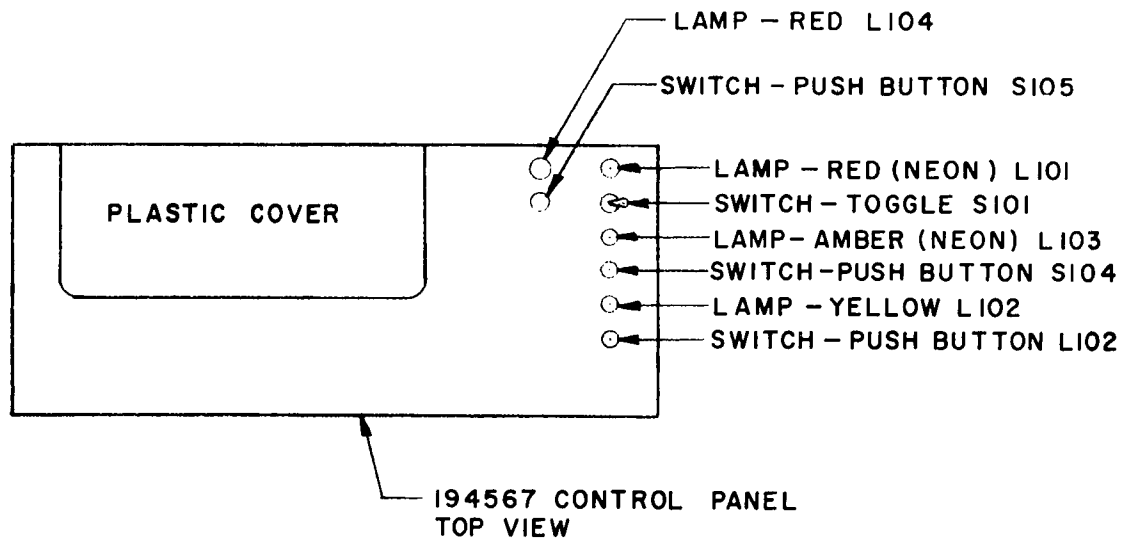
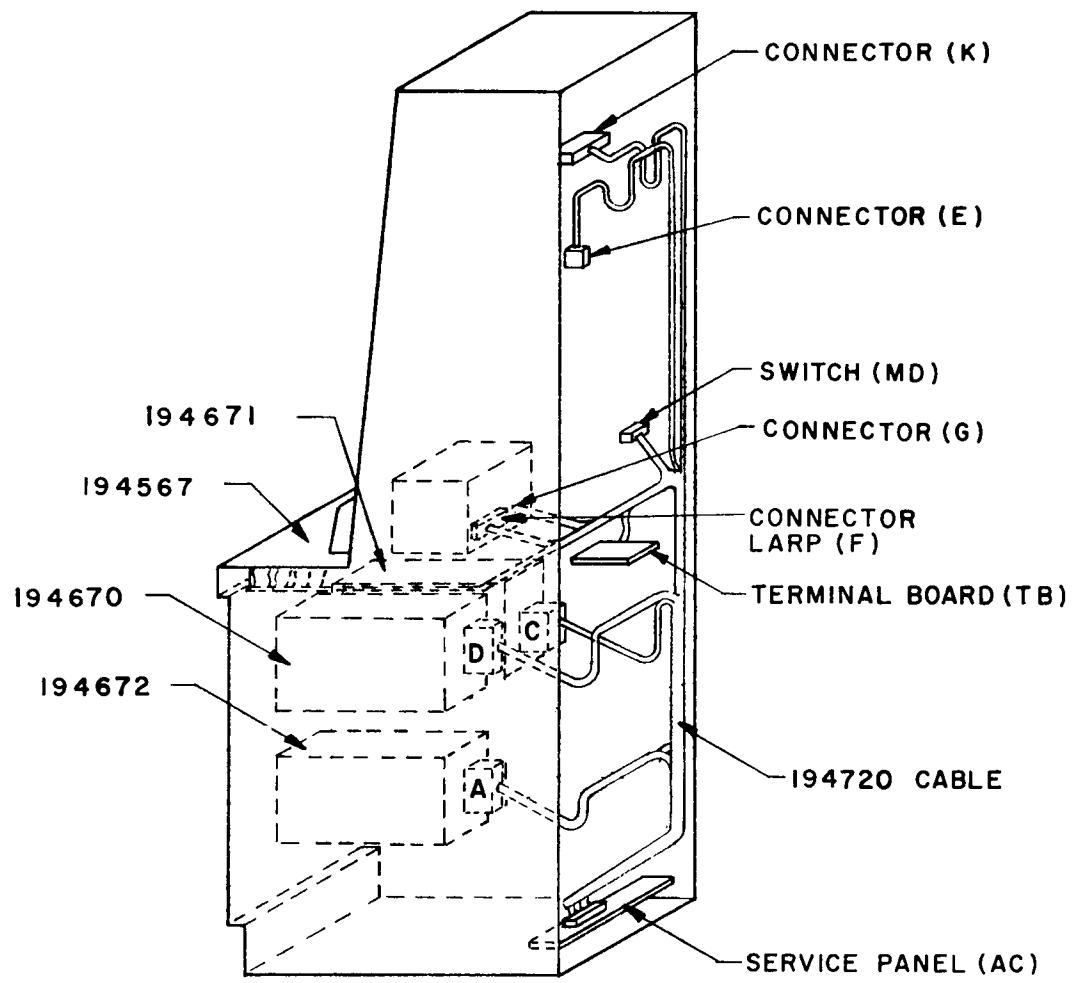
TELETYPE
CORPORATION

6365 WD

NO.	NOTES
1.	REFER TO 6090WD AND 6367WD FOR WIRING INFORMATION.

6366WD

ISSUE	DATE	AUTH. NO.



CABLE ROUTING
AC 348

APPROVALS	
D AND R	E OF M
<i>[Signature]</i>	<i>[Signature]</i>
K-NUMBER	
PROD. NO. 6366WD	
DATE 5-21-63	
P.D. FILE NO. 4-95 AAA	
DRAWN. J.V.K.	CHKD. <i>[Signature]</i>
ENGD. R.J.K.	APPD. <i>[Signature]</i>
TELETYPE CORPORATION	
6366WD	

6370WD

ISSUE	DATE	AUTH.NO.

194670 TRANSFER TREE END OF CABLE

	10	9	8	7	6	5	4	3	2	1
A	SP BK-S ‡	UC-SP ‡	9 O-BR	O W-P	CR W-R-Y	UC-CR ‡	5 R-S	T Y-G	BLANK θ	UC-BLANK θ
B	UC-LF Δ	FIGS-M φ	UC-M φ W-BK-R	M W-BL	N W-Y	UC-N * W-O-BL	FIGS-N *	FIGS-H W-BK-O	UC-H *	H R
C	8 O-S	FIGS-G Σ	UC-G BL-G Σ	G G	R W-S	4 R-O	FIGS-L *	UC-L *	L W-O	LF Δ W-R-G
D	3 BK-R	FIGS-V *	UC-V *	V R-BL	C O	UC-C *	FIGS-C W-BK-P (ZERO) BR-Y	O P W-G		I S
E	FIGS-B *	UC-B *	B BK	D BL	UC-D BL-S Δ	FIGS-D Δ	FIGS-Z ψ	UC-Z BK-BR ψ	Z BR-G	E Y
F	UC-X W-O-G #	X R-Y	F P	UC-F *	FIGS-F *	6 R-BR	Y BR-BL	S W-BR	UC-S W-BK-G ∞	FIGS-S ∞
G	FIGS BR	J G-S ☒	UC-J ☒	FIGS-J ☒	2 BK-G	W R-G	A W	UC-A BR-S ◇	FIGS-A ◇	FIGS-X #
H			LTRS W-O-BR	K W-BK	UC-K *	FIGS-K *	I BK-BL	Q W-R	U BK-Y	7 O-G

WIRING SIDE OF 194692 CONNECTOR

194671 DIODE MATRIX END OF CABLE

	10	9	8	7	6	5	4	3	2	1
A	J BR	I S	H R	G G	F P	E Y	D BL	C O	B BK	A W
B	T Y-G	S W-BR	R W-S	Q W-R	P W-G	O W-P	N W-Y	M W-BL	L W-O	K W-BK
C	3 BK-R	2 BK-G	1 BK-BL	0 (ZERO) BR-Y	Z BR-G	Y BR-BL	X R-Y	W R-G	V R-BL	U BK-Y
D	8 BL-G	7 BL-S	6 (QUOTES) BK-BR	5 SP BK-S	4 9 O-BR	3 8 O-S	2 7 O-G	1 6 R-BR	0 5 R-S	9 4 R-O
E	CR W-R-Y	LF W-R-G	BELL W-BK-G	WRU W-BK-P	EOM W-BK-O	\ W-O-BL	/ W-O-G	PERIOD W-BK-R	- BR-S	, (COMMA) G-S
F	TAPE (APOST)	▽ W-BL-R	(W-G-BK	) W-G-R	EOA W-G-P	# W-G-BR	! W-G-BL	; W-R-P	: W-R-BK	LTRS BK-O W-O-BR
G	ALT MODE Y-O	ESC Y-BR	? W-P-R	TAB W-BR-P	VT W-BR-BK	FORM W-BL-P	EOT W-BL-BR	RU W-BL-BK	TAPE W-P-BL	X OFF W-BL-G
H		* O-BR	+ S-P	= S-BL	SOM S-G	X ON S-Y	% S-O	@ S-BR	< S-BK	> Y-P

WIRING SIDE OF 174723 CONNECTOR

NOTES:

- IN 194692 CONNECTOR, THE SYMBOLS θ, Δ, ‡, *, φ, Δ, Σ, ψ, Γ, ∞, #, ◇, ☒, INDICATES STRAPS BETWEEN TERMINALS MARKED WITH LIKE SYMBOLS.
- ANY CODE ALTERATIONS ARE TO BE MADE IN THE 194692 CONNECTOR.

TRANSLATION CHART
FOR 194718
CABLE ASSEMBLY
(ARRANGEMENT "C")
USED ON 5 TO 8
CODE CONVERTERS

APPROVALS

D AND R	E OF M
<i>H/K 6/20/63</i>	<i>[Signature]</i>
E-NUMBER	
PROD. NO. 6370WD	
DATE: 4-17-63	
P.D. FILE NO. 4-95AAA	
DRAWN. L.J.F.	CHKD. <i>[Signature]</i>
ENG. R.J.K.	APPD. <i>[Signature]</i>

TELETYPE
CORPORATION

6370WD

EFH

ISSUE	DATE	AUTH.NO.

	10	9	8	7	6	5	4	3	2	1
A	SP BK-S ‡	UC-SP ‡	9 O-BR	O W-P	CR W-R-Y ₀	UC-CR □	5 R-S	T Y-G	BLANK θ	UC-BLANK θ
B	UC-LF Δ	FIGS-M φ	UC-M φ W-BK-R	M W-BL	N W-Y	UC-N + W-O-BL	FIGS-N +	FIGS-H *	UC-H W-G-BL *	H R
C	8 O-S	FIGS-G Σ	UC-G BL-GΣ	G G	R W-S	4 R-O	FIGS-L ⊕	UC-L W-G-P ⊕	L W-O	LF Δ W-R-G
D	3 BK-R	FIGS-V ⊗	UC-V ⊗ W-R-BK	V R-BL	C O	UC-C ∞ BK-O	FIGS-C ∞	O (ZERO) BR-Y	P W-G	I S
E	FIGS-B ⊖ W-P-R	UC-B ⊖ BK	B BL	D BL-SΓ	UC-D Γ	FIGS-D Γ	FIGS-Z ♥	UC-Z BK-BR♥	Z BR-G	E Y
F	UC-X W-O-G‡	X R-Y	F P	UC-F □ W-R-P	FIGS-F □	6 R-BR	Y BR-BL	S W-BR	UC-S ∞ W-BK-G	FIGS-S ∞
G	FIGS BR	J BR	UC-J ⊗ W-G-BK	FIGS-J ⊗	2 BK-G	W R-G	A W	UC-A BR-S◇	FIGS-A ◇	FIGS-X #
H			LTRS W-O-BR	K W-BK	UC-K X W-G-R	FIGS-K X	I BK-BL	Q W-R	U BK-Y	7 O-G

	10	9	8	7	6	5	4	3	2	1
A	J BR	I S	H R	G G	F P	E Y	D BL	C O	B BK	A W
B	T Y-G	S W-BR	R W-S	Q W-R	P W-G	O W-P	N W-Y	M W-BL	L W-O	K W-BK
C	3 BK-R	2 BK-G	1 BK-BL	0 (ZERO) BR-Y	Z BR-G	Y BR-BL	X R-Y	W R-G	V R-BL	U BK-Y
D	& BL-G	\$ BL-S	" (QUOTES) BK-BR	SP BK-S	9 O-BR	8 O-S	7 O-G	6 R-BR	5 R-S	4 R-O
E	CR W-R-Y	LF W-R-G	BELL W-BK-G	WRU W-BK-P	EOM W-BK-O	\ W-O-BL	/ W-O-G	PERIOD W-BK-R	- BR-S	, (COMMA) G-S
F	TAPE W-BL-R	▽ (APOST) W-G-BK	(W-G-R	) W-G-P	EOA W-G-BR	# W-G-BL	! W-R-P	; W-R-BK	: BK-O	LTRS W-O-BR
G	ALT MODE Y-O	ESC Y-BR	? W-P-R	TAB W-BR-P	VT W-BR-BK	FORM W-BL-P	EOT W-BL-BR	RU W-BL-BK	T-A-P-E W-P-BL	X OFF W-BL-G
H		* O-BR	+ S-P	= S-BL	SOM S-G	X ON S-Y	% S-O	@ S-BR	< S-BK	> Y-P

**TRANSLATION CHART
FOR 194719
CABLE ASSEMBLY
(ARRANGEMENT "A")
USED ON 5 TO 8
CODE CONVERTERS**

1. IN 194692 CONNECTOR, THE SYMBOLS θ , $\square$, $\neq$, $\times$, ϕ , Δ , Σ , Ψ , Γ , $\boxtimes$, $\#$, $\diamond$, $\boxplus$, $\oplus$, ∞ , $\oplus$, $\equiv$, $\boxminus$, $\times$, INDICATE STRAPS BETWEEN TERMINALS MARKED WITH LIKE SYMBOLS.
2. ANY CODE ALTERATIONS ARE TO BE MADE IN THE 194692 CONNECTOR.

D AND R	E OF M
AK 6/20/63	5

PROD. NO. 6371 WD

P.D. FILE NO. 4-95 AAA

DRAWN. L.J.F. CHKD. R/K

ENGD. R.J.K. APPD. 

TELETYPE
CORPORATION

637 | WD