

35A LINE CONTROLLER FOR
8A1 DATA SELECTIVE CALLING SYSTEM
WIRING DIAGRAMS

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2. WIRING DIAGRAM INDEX	2

1. GENERAL

1.01 This section provides the wiring diagrams and related equipment drawings for the 35A Line Controller. This section is being reissued to update the wiring diagrams and change the designation 35A-1 Line Controller to 35A Line Controller. Since this is a general revision, marginal arrows have been omitted.

1.02 The functional schematics and certain card printed schematics which constitute a part of the schematic drawings (SDs) of 7150WD, are described in Section 581-121-100 entitled, "35A Line Controller for 8A1 Data Selective Calling System, General Description and Principles of Operation."

1.03 The major portion of electrical components and circuits forming the 35A Line Controller is given in the schematic drawings, SDs, 7150WD. The SDs include func-

tional schematics which provide the operational details of the logic, signal line, and power circuits; the relays, connectors, printed circuit cards, etc, are shown in detached form. Solid state elements (flip-flops, NAND gates, NOR gates, etc) are covered in the card printed schematics. The electrical components and associated part numbers and functional schematic references are given in the apparatus figures. Other general categories of the SDs include circuit notes, sequence charts, circuit requirements, and point-to-point wiring.

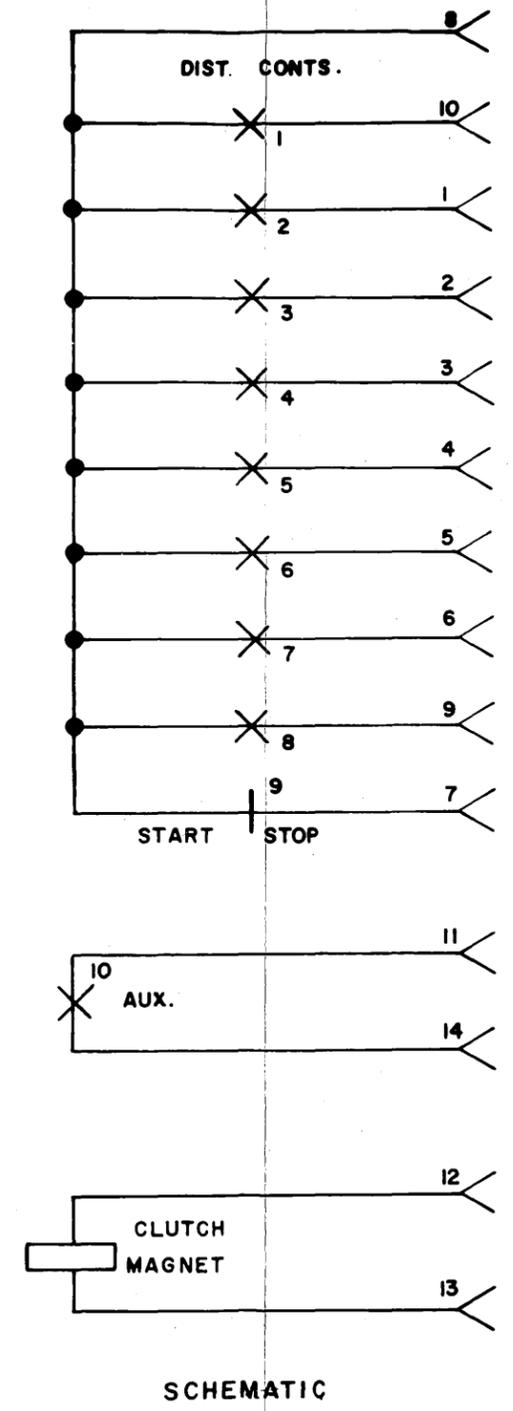
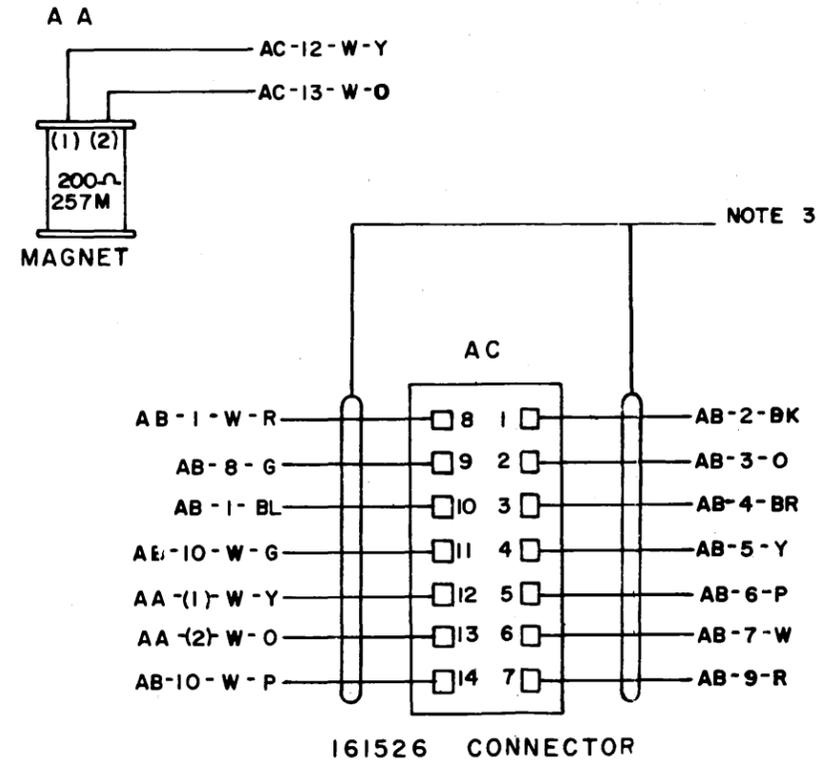
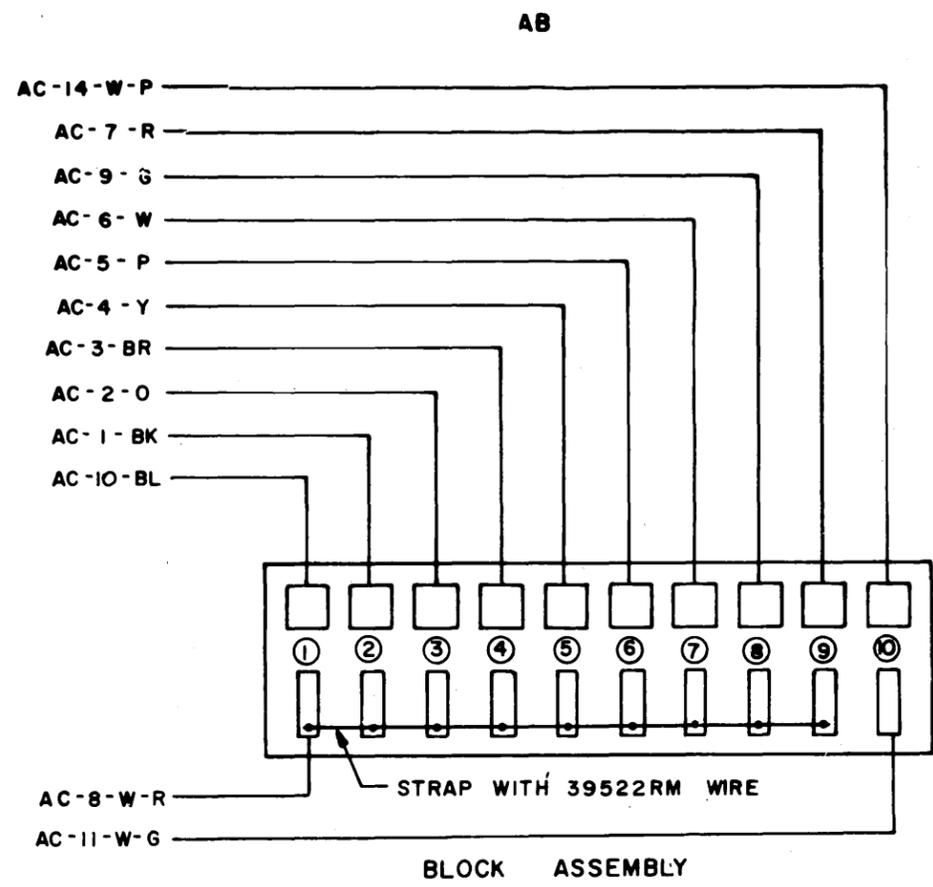
1.04 The electrical components, ie, distributor and typing reperforator, associated with the line controller, are shown in their respective actual wiring diagrams (AWDs). Each component shows the origin, termination, and color coding of the various leads. Notes are included on each diagram to explain the symbols and indicate any special conditions which should be observed. The schematic wiring diagrams (SWDs) show the circuit paths. Point-to-point wiring of the polling step switch is given in the wiring lists (WLs). The components of the electrical service assembly are illustrated in the equipment drawing (ED).

1.05 A listing of the line controller drawings is presented in the wiring diagram index. Part 2 WIRING DIAGRAM INDEX lists the title and the diagram number.

2. WIRING DIAGRAM INDEX

TITLE	DIAGRAM NUMBER	TITLE	DIAGRAM NUMBER
Multiple Wire Distributor	4790WD	Apparatus Figures	7150WD (C1-C9)
Typing Reperforator	4957WD	Circuit Notes	7150WD (D1-D8)
Reperforator Base	7146WD	Sequence Charts	7150WD (E1-E3)
Distributor Base	7147WD	Circuit Requirements	7150WD (F1-F2)
Reperforator Base	7148WD	Wiring (Point-to-Point)	7150WD (W1-W18)
35A Line Controller	7150WD	Stepping Switch	7151WD
Equipment Index	7150WD (A3)	Power Supply Module	7270WD
Functional Schematics	7150WD (B1-B14)	Power Supply Module	7271WD
Card Printed Schematics	7150WD (B15-B24)	Electrical Service Assembly	304200

- NO. NOTES**
- 1. WIRING LEGEND:**
- DISTANT TERMINATING AREA
 — DISTANT TERMINATING DESIGNATION
 — WIRE COLOR CODE
- 2. COLOR CODE:**
- | | | | |
|----|--------|---|--------|
| BK | BLACK | R | RED |
| BL | BLUE | W | WHITE |
| BR | BROWN | Y | YELLOW |
| G | GREEN | O | ORANGE |
| P | PURPLE | | |
- 3. CABLE AND CONNECTOR ASSEMBLIES USED ARE:**
- | | | |
|-------|---|--------|
| LD800 | - | 197942 |
| LD805 | - | 197942 |
| LD801 | - | 197942 |
| LD802 | - | 194010 |
| LD803 | - | 197942 |
| LD804 | - | 197942 |
- 4. THE LD 804 CONTAINS GOLD PLATED CONTACTS. THE ROCKER-ROCKER GUIDE STRAP IS PART OF THE ROCKER ASSEM..**
- 5. THE NUMBERS ENCLOSED BY PARENTHESES ARE USED FOR REFERENCE AND ARE NOT NECESSARILY SHOWN ON PARTS.**



4790 WD

ISSUE	DATE	AUTH. NO.
2	6-21-63	76658
3	3-3-64	7920
4	3-11-65	8639
5	6-14-65	87342
6	3-30-66	9001
7	7-11-67	94311
8	1-20-68	96604

WDP

MULTIPLE WIRE DISTRIBUTOR
 LD800, LD801, LD802, LD803, LD804, LD805

APPROVALS

D AND R	E OF W
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E-NUMBER
 PROD. NO. 4790 WD

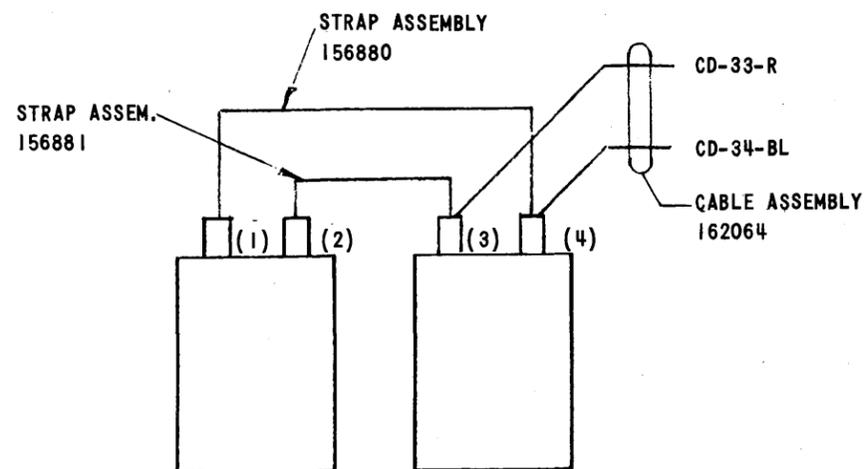
DATE: 3-3-64
 P.D. FILE NO. 1-30/11.65A175
 DRAWN. L. J. F. CHKD. *mon*
 ENGD. J. A. J. APPD. *O.A.*

TELETYPE CORPORATION
4790WD

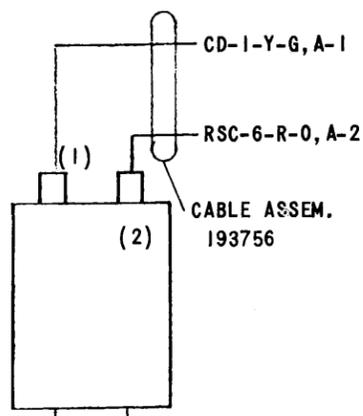
4957WD

ISSUE	DATE	AUTH. NO.
* 2	8-8-62	74167
3	9-12-62	74496
4	9-20-62	74594
5	5-6-63	76475

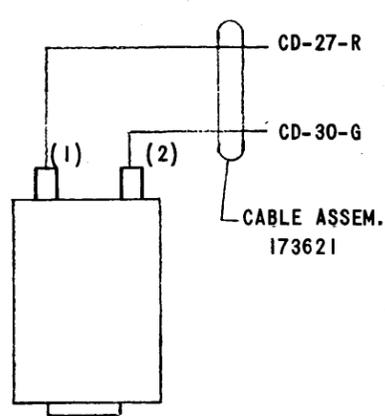
- NO. NOTES
- COLOR CODE**
 BK-BLACK G-GREEN
 BR-BROWN P-PURPLE
 BL-BLUE S-SLATE
 O-ORANGE W-WHITE
 Y-YELLOW R-RED
 - WIRING LEGEND:**
 — DISTANT TERMINATING AREA
 — DISTANT TERMINATING DESIGNATION
 MHC-3-W-BL
 — WIRE COLOR CODE
 - TERMINALS DESIGNATED IN PARENTHESIS ARE NOT MARKED ON COMPONENTS.



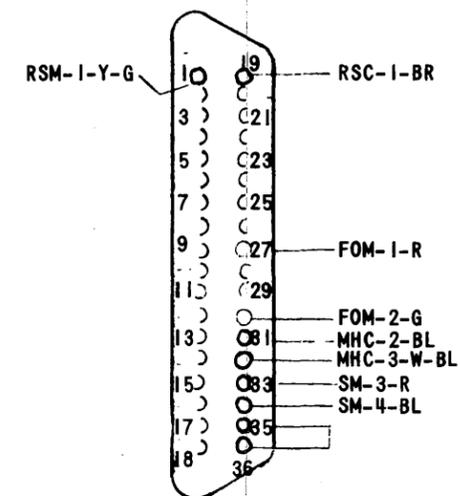
SM SELECTOR MAGNET



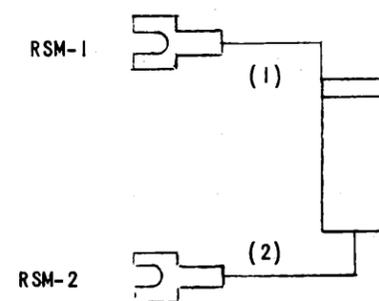
RSM RIBBON SHIFT MAGNET



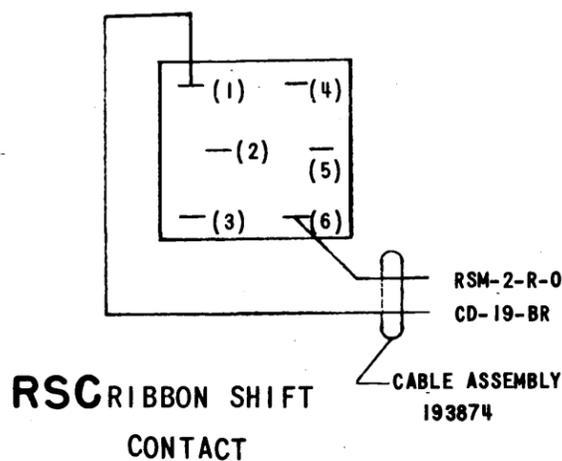
FOM FEED OUT MAGNET



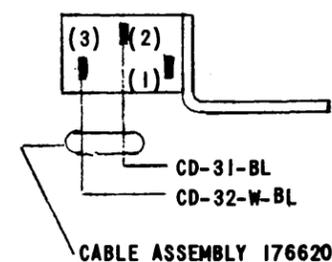
CD 36 POINT CONNECTOR



NETWORK
(178535)



RSC RIBBON SHIFT CONTACT



MHC FEED OUT CONTACT

WDP

ACTUAL
WIRING DIAGRAM
MODEL 35
LPR801
LPR804

APPROVALS

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

E-NUMBER

PROD. NO. 4957WD

DATE: 5-3-62

P.D. FILE NO. 1-49.151AA

DRAWN. GLZ

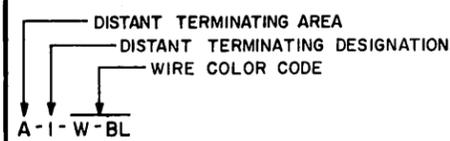
CHKD. —

ENGD. JAC

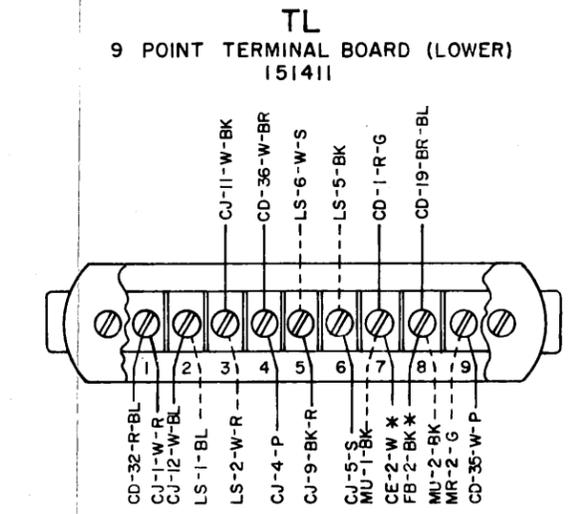
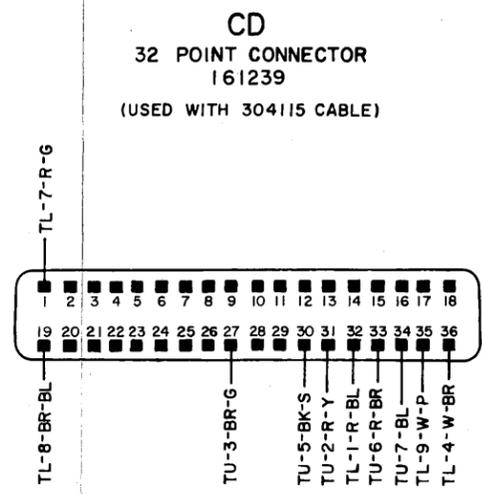
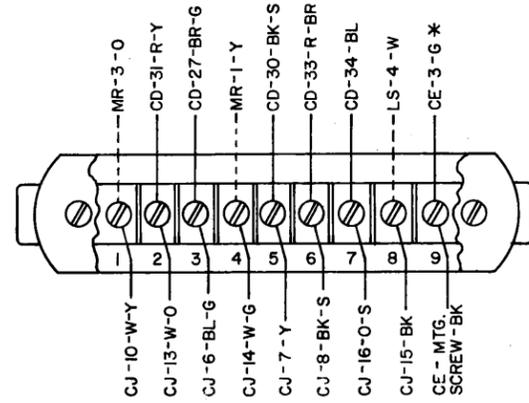
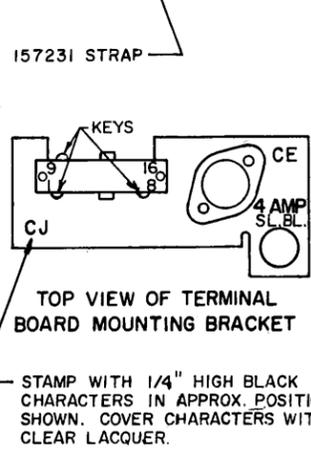
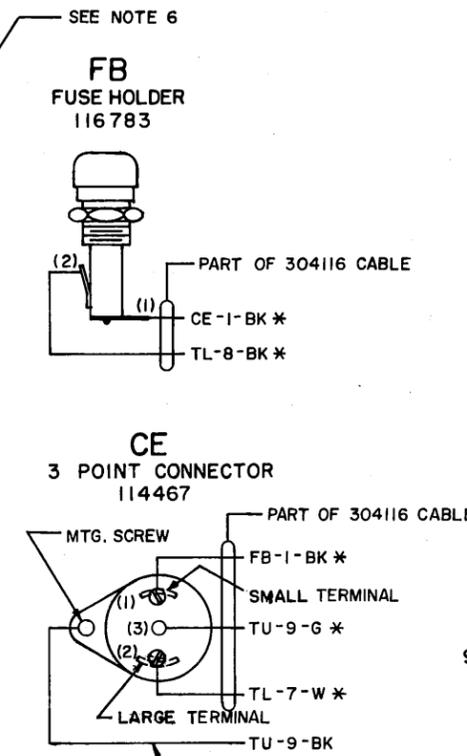
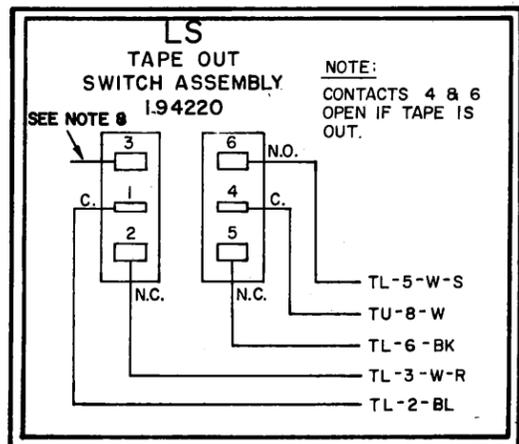
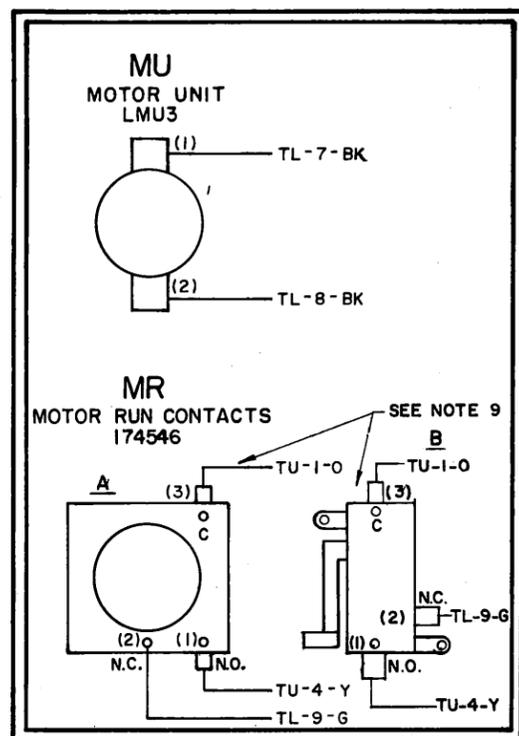
APPD. *E.W.K.*

TELETYPE CORPORATION

4957WD

- NO. NOTES**
- WIRING LEGEND**

 A-1-W-BL
 - COLOR CODE**

BK=BLACK	R-RED
O=ORANGE	W-S=WHITE-SLATE
BR=BROWN	BK-R=BLACK-RED
Y=YELLOW	BK-Y=BLACK-YELLOW
G=GREEN	BK-G=BLACK-GREEN
BL=BLUE	BK-S=BLACK-SLATE
P=PURPLE	BR-G=BROWN-GREEN
S=SLATE	BR-BL=BROWN-BLUE
W=WHITE	R-BR=RED-BROWN
W-BK=WHITE-BLACK	R-Y=RED-YELLOW
W-R=WHITE-RED	R-BL=RED-BLUE
W-O=WHITE-ORANGE	R-S=RED-SLATE
W-Y=WHITE-YELLOW	O-S=ORANGE-SLATE
W-G=WHITE-GREEN	BL-G=BLUE-GREEN
W-BL=WHITE-BLUE	BL-S=BLUE-SLATE
 - * INDICATES 18 AWG. WIRE.
 - TERMINAL DESIGNATIONS ENCLOSED IN PARENTHESES ARE FOR REFERENCE ONLY AND ARE NOT MARKED ON COMPONENTS.
 - ALL CONNECTORS ARE VIEWED FROM SOLDER TERMINAL END.
 - UNITS ENCLOSED IN BLOCKS AND DASHED WIRING ARE NOT PART OF LRB304 BASE.
 - THIS PRINT SHOWS WIRING OF LRB304, LMU3, LPR801, AND 174546 MOTOR RUNNING CONTACTS USED ON VSL 342 FOR ASSOCIATED WIRING DIAGRAMS REFER TO 7148 WD (SCHEMATIC), 2900WD, AND 4957WD.
 - TAPE & TIE BACK TERMINAL END OF BK-O WIRE. WIRE IS NOT REQUIRED FOR THIS UNIT.**
 - SET MAY BE WIRED IN EITHER CONFIGURATION.**



SIMILAR TO 5846WD

7146 WD		
REVISIONS		
ISSUE	DATE	AUTH. NO.
2	3-24-65	85514
3	6-2-65	85542
4	8-9-65	88926
5	3-29-67	88928-1

ACTUAL WIRING DIAGRAM FOR MODEL 35 TYPING REPERFORATOR BASE LRB 304

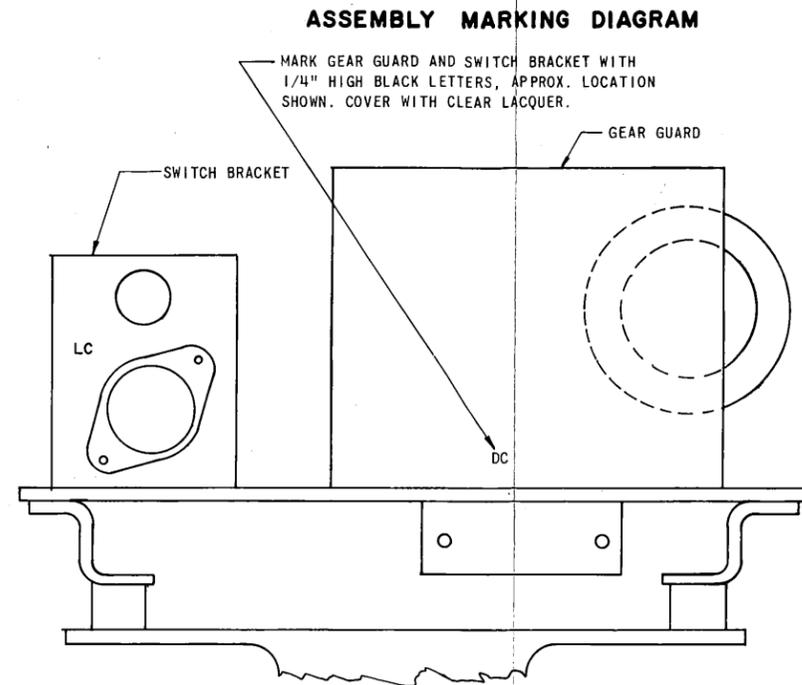
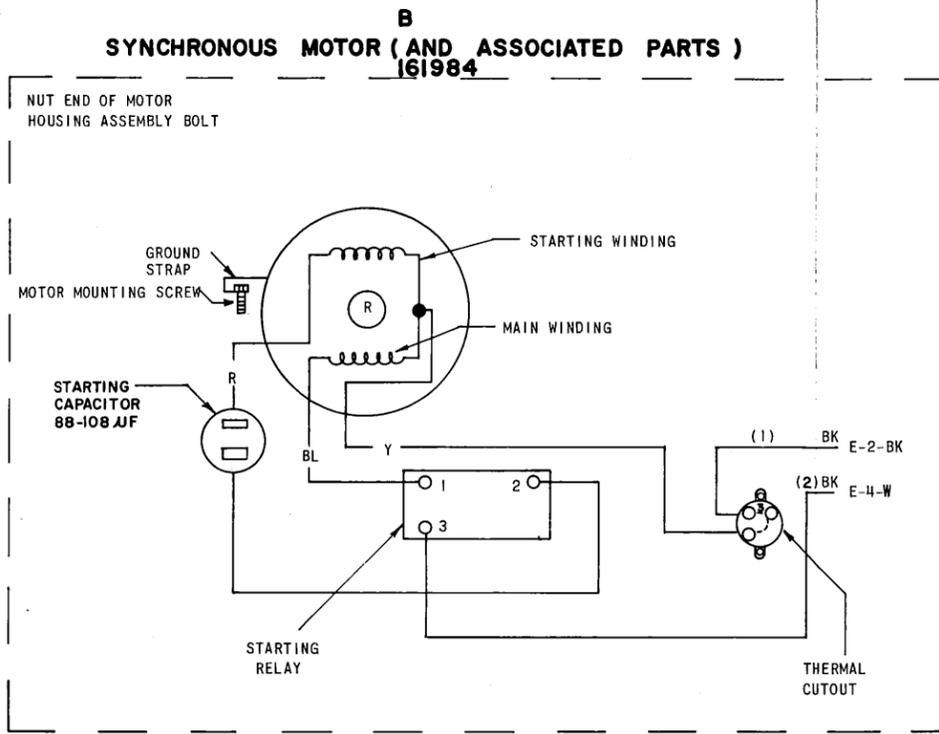
APPROVALS

DATE 11-23-63
 P.D. FILE NO. 43-A25AA
 DRAWN HDS
 ENGR. J.A.J. APPD.
TELETYPE CORPORATION

5 7146 WD

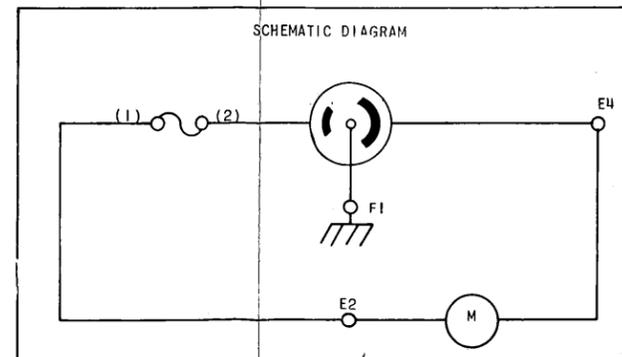
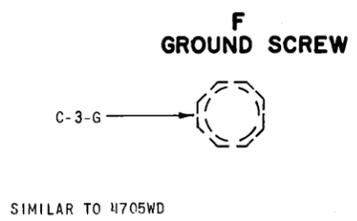
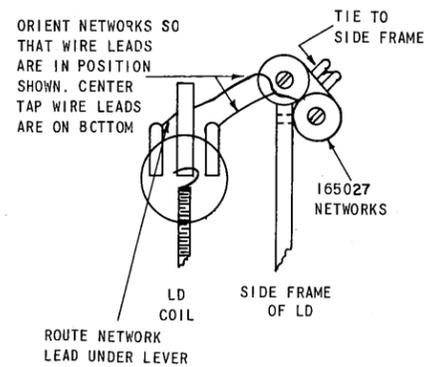
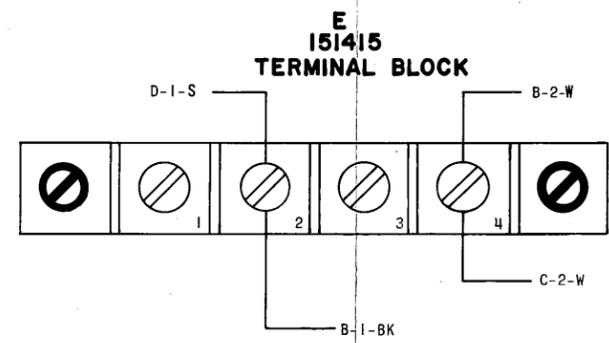
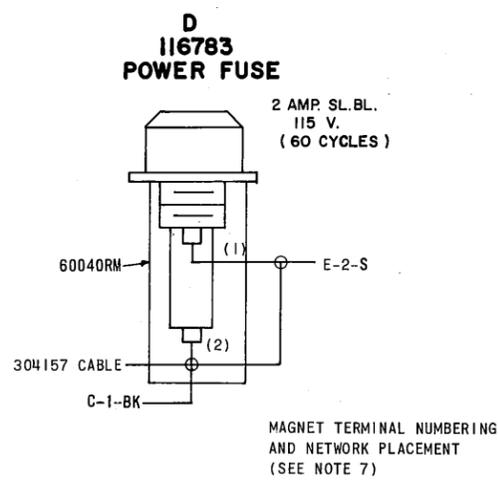
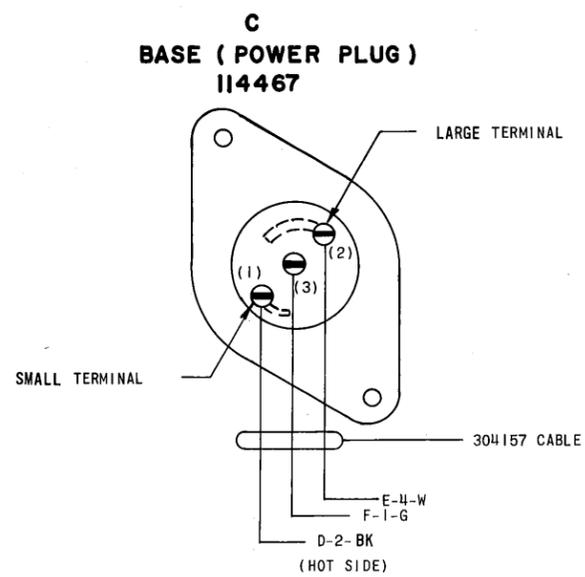
- NO. NOTES**
1. **WIRING LEGEND:**

 DISTANT TERMINATING AREA
 DISTANT TERMINATING DESIGNATION
 B-2-R WIRE COLOR CODE
 2. **COLOR CODE:**
 BK - BLACK G - GREEN
 BL - BLUE P - PURPLE
 BR - BROWN Y - YELLOW
 R - RED O - ORANGE
 W - WHITE S - SLATE
 3. TERMINALS DESIGNATED IN PARENTHESES ARE NOT MARKED ON COMPONENTS.
 4. TERMINALS ON CONNECTOR SHOWN AS VIEWED FROM SOLDER END.
 5. MOTOR LEADS OF SAME COLOR ARE INTERCHANGEABLE.
 6. FOR ASSOCIATED WIRING DIAGRAMS SEE 4790WD.
 7. MAKE ELECTRICAL CONNECTIONS WHEN LD IS ASSEMBLED ON TO THE LRSB. ATTACH TWO 186A NETWORKS SOLDERED TOGETHER IN PARALLEL, SOLDER CENTER TAPS TOGETHER & THE SIDE TAPS TOGETHER AND APPLY 60020RM TUBING. TAPE NETWORKS TOGETHER WITH 79122RM TAPE AND TIE TO SIDE FRAME OF LD BY MEANS OF A HOLE LOCATED AT TOP OF FRAME.



7147 WD

REVISIONS		
ISSUE	DATE	AUTH. NO.
2	5-18-64	82142
3	2-2-65	84411
4	4-5-65	85534
5	5-18-65	86370
6	9-8-65	84555
7	10-6-65	88896
8	8-8-66	88896-2
9	3-7-67	92234



ACTUAL & SCHEMATIC WIRING DIAGRAMS FOR MODEL 35 SENDING DISTRIBUTOR BASE WITH MOTOR LRSB800

APPROVALS

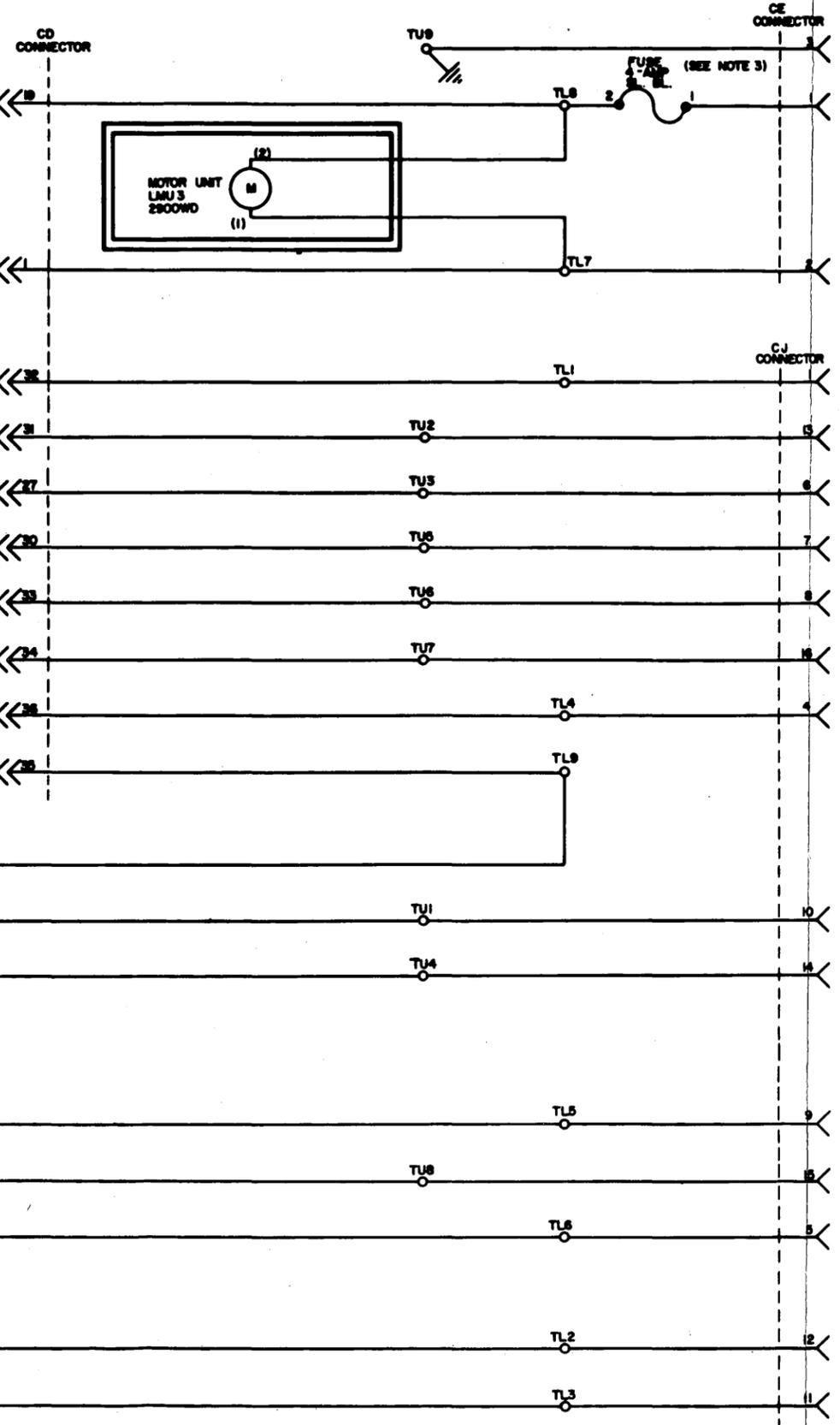
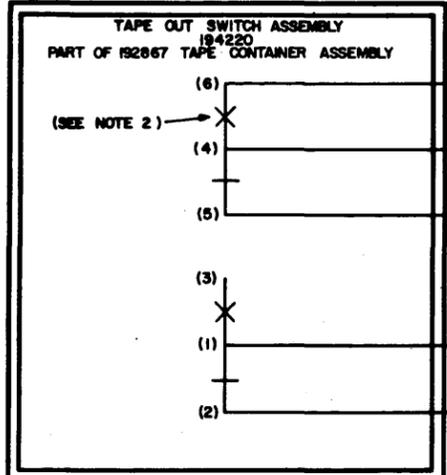
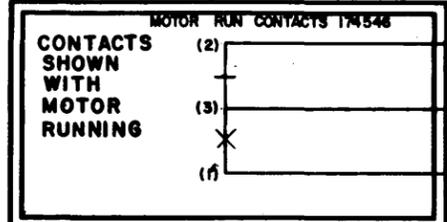
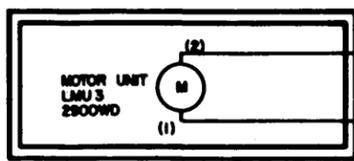
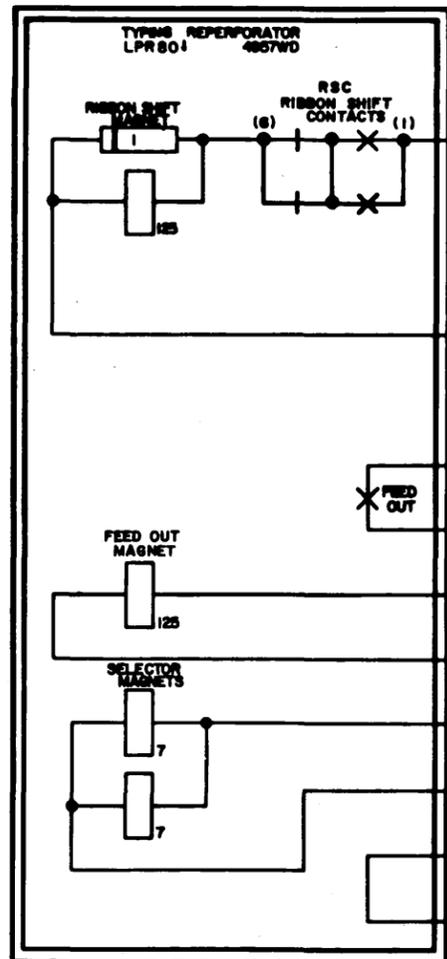
D AND R J.W.	E OF M
-----------------	--------

E-NUMBER
PROD. NO. 7147WD
DATE 11-22-63
P.D. FILE NO. 43-A25AA
DRAWN D.G.S. **CHKD.**
ENGD. J.A.J. **APPD.** J.W.

TELETYPE CORPORATION

9 7147 WD

NO.	NOTES
1.	BASE ACTUAL WIRING DIAGRAM IS 7148WD.
2.	CONTACTS 4 & 6 OPEN IF TAPE SUPPLY IS LOW. CONTACTS 1 & 2 WILL OPERATE SHORTLY AFTER CONTACTS 4 & 6.
3.	USE 4 AMP FUSE FOR 10V-60 CYCLE OPERATION.



7148 WD

REVISIONS		
ISSUE	DATE	AUTH. NO.
2	3-16-65	85517
3	5-10-66	88933
4	8-9-66	88926

SCHEMATIC WIRING DIAGRAM FOR MODEL 35 TYPING REPERFORATOR BASE LRB304 WITH ASSOCIATED EQUIPMENT

APPROVALS	
D AND R <i>[Signature]</i>	E OF M <i>[Signature]</i>
E-NUMBER	
PROD. NO. 7148WD	
DATE 1-13-64	
P.D. FILE NO. 43-A25AA	
DRAWN E. R.	CHKD. <i>[Signature]</i>
ENGD. G. R. C.	APPD. <i>[Signature]</i>
TELETYPE CORPORATION	

4 7148 WD

SHEET INDEX

7150WD

SHEET NO.	ISSUE NO.																	
	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58
W1	7																	
W2	5																	
W3	9																	
W4	2																	
W5	5																	
W6	4																	
W7	5																	
W8	10																	
W9	6																	
W10	5																	
W11	7																	
W12	5																	
W13	7																	
W14	3																	
W15	3																	
W16	6																	
W17	3																	
W18	5																	
CD ALL	5																	
3 SHEETS																		
10 SHEETS																		
40 SHEETS																		

REVISIONS		
ISSUE	DATE	AUTH. NO.
41	12-21-70	99550-2

ISSUE CONTROL
SHEET 3 OF 3

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SECTION I 10 SHEETS
SECTION II 40 SHEETS

APPROVALS		
PROJ. SUPV.	PROJ. DIR.	MFG. REL. COMPL.
		<i>LJM</i>
ENGR. J. A. J.	DSGMR.	
DRN. W. B.	DATE	
R&D FILE 43-A25AA		
S - NUMBER		



7150 WD

APPARATUS INDEX

DESIG.	LOCATION	
	FS	APP.FIG.
RELAYS		
A	11C3	1
A1	11B3	1
ACK	10E3	1
AL	12B5	1
AST	10F3	1
B	11E3	1
B1	11D3	1
C	11F3	
C1	11E3	1
CP	10B6	1
DC	10B3	1
EOT	9F8	1
FA1	14D7	4
FA2	8F4	4
IM	9B8	1
LB	9F6	1
NI	9D8	1
NT	12B7	1
NR1-1	12C5	2
NR1-2	12C5	2
NR1-3	12C5	2
NR1-4	12C5	2
NR1-5	12C5	2
NR2-6	12C5	2
NR2-7	12C5	2
NR2-8	12C5	2
NR2-9	12C5	2
NR2-10	12C5	2
NR3-11	12C5	2
NR3-12	12C5	2
NR3-13	12C5	2
NR3-14	12C5	2
NR3-15	12C5	2
NR4-16	12C5	2
NR4-17	12C5	2
NR4-18	12C5	2
NR4-19	12C5	2
NR4-20	12C5	2
NR5-21	12C5	2
NR5-22	12C5	2
NR5-23	12C5	2
NR5-24	12C5	2
NR5-25	12C5	2
P	9B2	1
RR	13E4	3
SK	10E4	1
V	10C3	1

DESIG.	LOCATION	
	FS	APP.FIG.
BUZZER		
BZ	12C8	5
CARDS, CIRCUIT		
D1	12E5	14
D2		14
D3		14
D4		15
D6	12E5	16
Z101	1C5	7
Z102		11
Z103		11
Z104		11
Z105		11
Z106	1D3	10
Z108		13
Z109		12
Z110		13
Z111		12
Z112		11
Z113		11
Z114		11
Z115		11
Z116		11
Z117		12
Z118	AC5	7
Z119	4E5	7
Z120		11
Z121		11
Z122		12
Z123		13
Z124		12
Z125		13
Z126		6
Z127		6
Z128		6
Z201		17
Z206	1D3	9
Z218	4D5	7
Z219	4F5	7
Z226		6
Z227		6
Z228		6
Z311		8
Z312		11
Z313		11
Z314		11
Z315		11
Z316		12
Z317		13
Z318	6D1	7
Z319		11
Z320		11
Z321		11
Z322		12
Z323	7F3	7

DESIG.	LOCATION	
	FS	APP.FIG.
CARDS, CIRCUIT		
Z325		11
Z326		11
Z411		8
Z418	7D1	7
Z423	7E8	9

DESIG.	LOCATION	
	FS	APP.FIG.
CONNECTORS		
Ø1		23
Ø2		23
CC		22
CE	14B8	19
CJ		21
CLL	14F7	18
DC		20
LC	14B6	19
MC	14C3	18
PSA	14D3	19
PSD	14D3	21
S1		24
S2		24
S3		24
S4		24
S5		24
S6		24

CORD, POWER		
A.C. INPUT	14C1	25

DIODES		
CR1	9B8	26
CR2	9D8	26
CR3	9E8	26
CR4	9E7	26
CR5	10B6	26
CR6	10E4	26
CR7	10C3	26
CR8	10E3	26
CR9	11B3	26
CR10	11C3	26
CR11	11C3	26
CR12	11D3	26
CR13	11E3	26
CR14	11F3	26
CR15	12B7	26
CR16	12A5	26
CR17	7C3	46
CR18	7C3	46
CR19	10D5	26
CR20	10D5	47

DESIG.	LOCATION	
	FS	APP.FIG.
DRIVER, SELECTOR MAGNET		
SMD		33

FUSES		
F1	14C3	27
F2	14E3	27
F3	14D3	27
F4	14E3	27
F5	14E3	27
F6	14G3	27
F7	14F3	27
F8	14B2	27
F9	14B4	27
F10	14B5	27
F11	14B8	27

LAMPS		
ACO	12D7	28
BREAK	1B2	28
COPYLIGHT	14F7	28
INCPT	9D5	28
MTC	12E1	28
SKIP 1		
THRU	12E8	28
SKIP 25		
STOP	9D4	28

POWER SUPPLY		
DC	14E2	29

PROGRAM PANEL		
PP		30

NETWORKS		
AC	12G8	31
AST	10F3	31
DC	10B3	31
P	9A2	31
POLL SS	10D5	31

DESIG.	LOCATION	
	FS	APP.FIG.
RESISTORS		
R1	8E4	32
R2	11D6	32
R3	13F4	32
R4	13E2	32

SOCKET		
RR		34

SWITCHES		
ACO		37
BREAK		37
INC	9D6	36
INCPT	9D5	37
MTC		37
POLL SS		38
POWER	14B3	35
RESET	12A6	37
SKIP 1		
THRU		37
SKIP 25		
START		37
STOP		37

TERMINAL BOARD		
SIGNAL		
LINE		40
TA	14C2	40
TF		39

TURRET		
AA		41

DESIG.	LOCATION	
	FS	APP.FIG.
UNITS		
BASE		
LRB304		43
BASE		
LRSB800	14B5	45
DIST.		
LD802		44
MOTOR		
LMU3	14B8	43
PUNCH		
LPR801		42

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

7150WD-A3		
REVISIONS		
ISSUE	DATE	AUTH. NO.
1	9-16-64	15790-R
2	1-7-65	84192
3	3-16-65	85517
4	10-6-65	88896
5	10-8-65	88904
6	3-8-66	88931
7	8-8-66	88896-2
8	8-24-66	88949

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

SHEET 3 OF 3

35A-1
LINE CONTROLLER
FOR
BAI DATA SELECTIVE
CALLING SYSTEM

APPROVALS

D AND R	E OF M
E-NUMBER	
PROD. NO. 7150WD-A3	
DATE 3-31-64	
P.D. FILE NO. 43-A25AA	
DRAWN E. R.	CHKD. <i>[Signature]</i>
ENGD. P. P. P.	APPD.

TELETYPE CORPORATION

7150WD-A3

FUNCTIONAL DESIGNATIONS

OLD — OPEN LINE DETECTOR
ILD — IDLE LINE DETECTOR
CR — CHARACTER RECEIVED

RI — REGISTER I
 BIT NUMBER
 0 - INDICATES START
 9 - INDICATES STOP

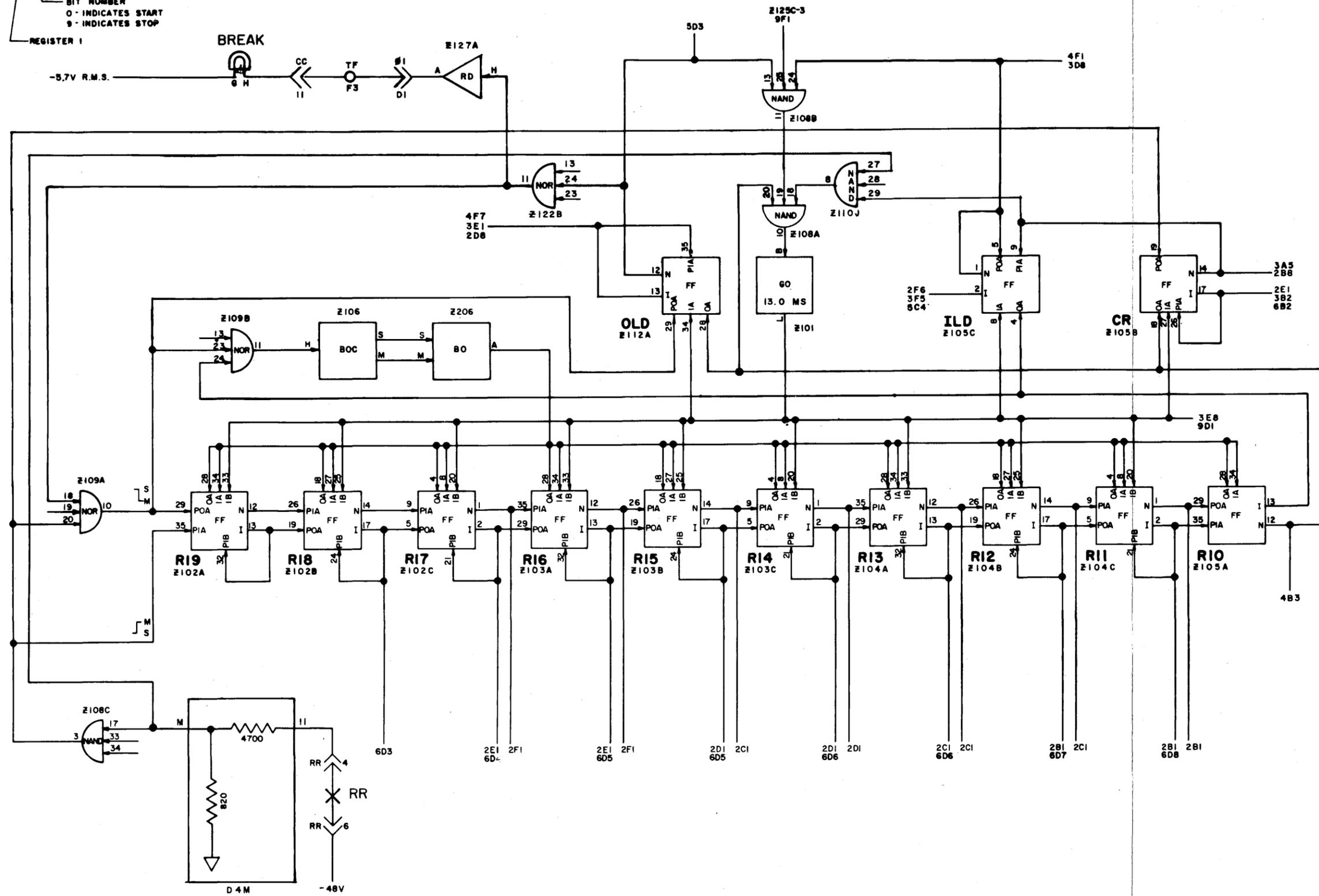
**FS-1
 RECEIVING SELECTOR**

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

7150WD-B1

REVISIONS

ISSUE	DATE	AUTH. NO.
1	9-18-64	15750-8
2	3-24-64	81-1313
3	6-2-65	83342
4	10-8-65	88904
5	8-23-66	88950



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

SHEET 1 OF 24

**35A-1
 LINE CONTROLLER
 FOR
 8AI DATA SELECTIVE
 CALLING SYSTEM**

APPROVALS

D AND R E OF M

E-NUMBER

PROD. NO. 7150WD-B1

DATE 12-5-63

P.D. FILE NO. 43-A25AA

DRAWN E. R. CHKD.

ENGD. J. A. J. APPD.

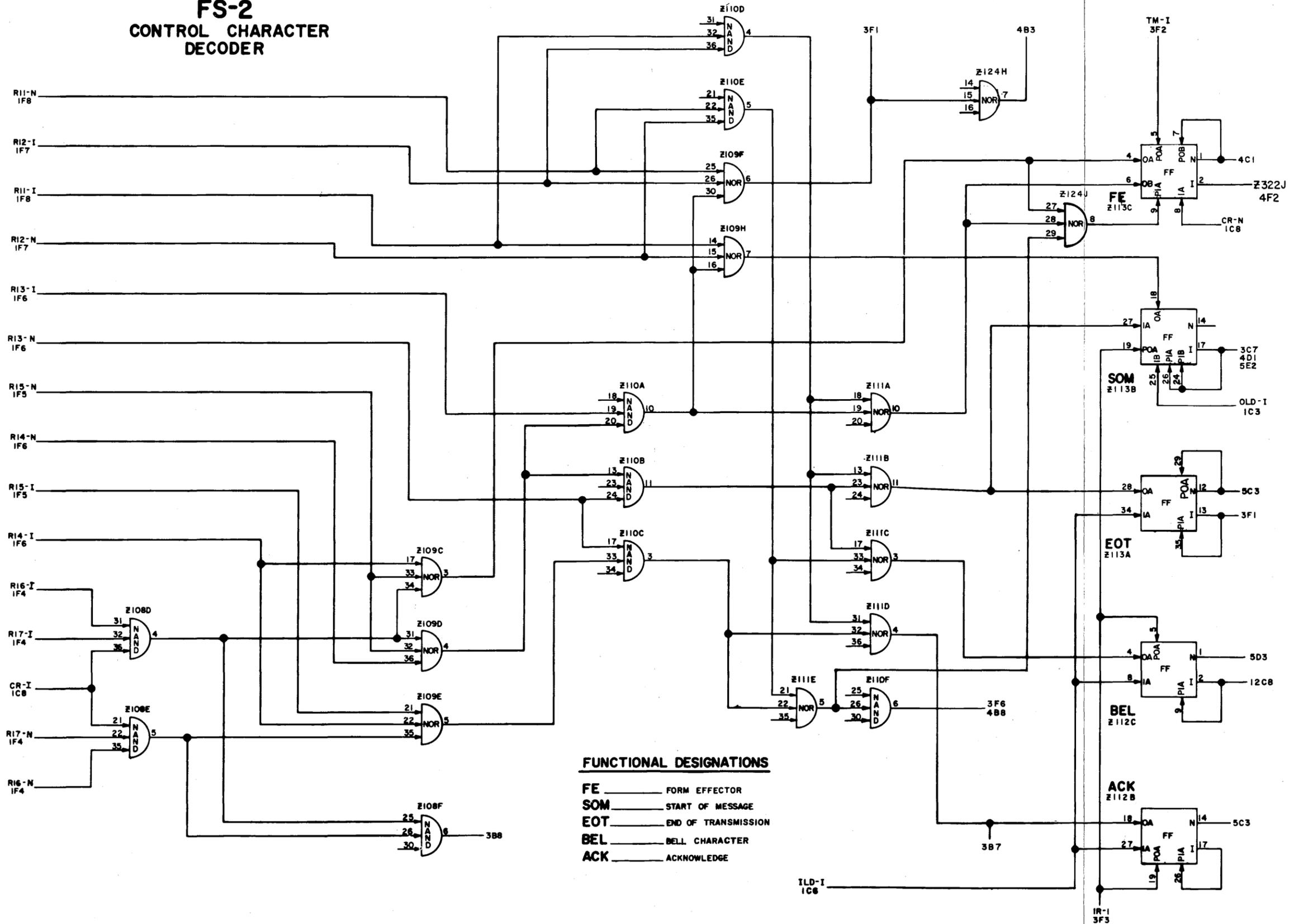
**TELETYPE
 CORPORATION**

7150WD-B1

FS-2 CONTROL CHARACTER DECODER

NOTE: REVISION INFORMATION MUST ALSO BE REFLECTED ON THE ISSUE CONTROL RECORD.

7150WD-B2		
REVISIONS		
ISSUE	DATE	AUTH. NO.
1	9-16-64	15790-R
2	10-8-65	88904
3	11-8-65	88910



FUNCTIONAL DESIGNATIONS

- FE _____ FORM EFFECTOR
- SOM _____ START OF MESSAGE
- EOT _____ END OF TRANSMISSION
- BEL _____ BELL CHARACTER
- ACK _____ ACKNOWLEDGE

SHEET 2 OF 24

35A-1
LINE CONTROLLER
FOR
8AI DATA SELECTIVE
CALLING SYSTEM

APPROVALS

D AND R E OF M

E-NUMBER

PROD. NO. 7150WD-B2

DATE 1-2-64

P.D. FILE NO. 43-A25AA

DRAWN E. R. CHKD.

ENGD. J. A. J. APPD.

TELETYPE
CORPORATION

7150WD-B2

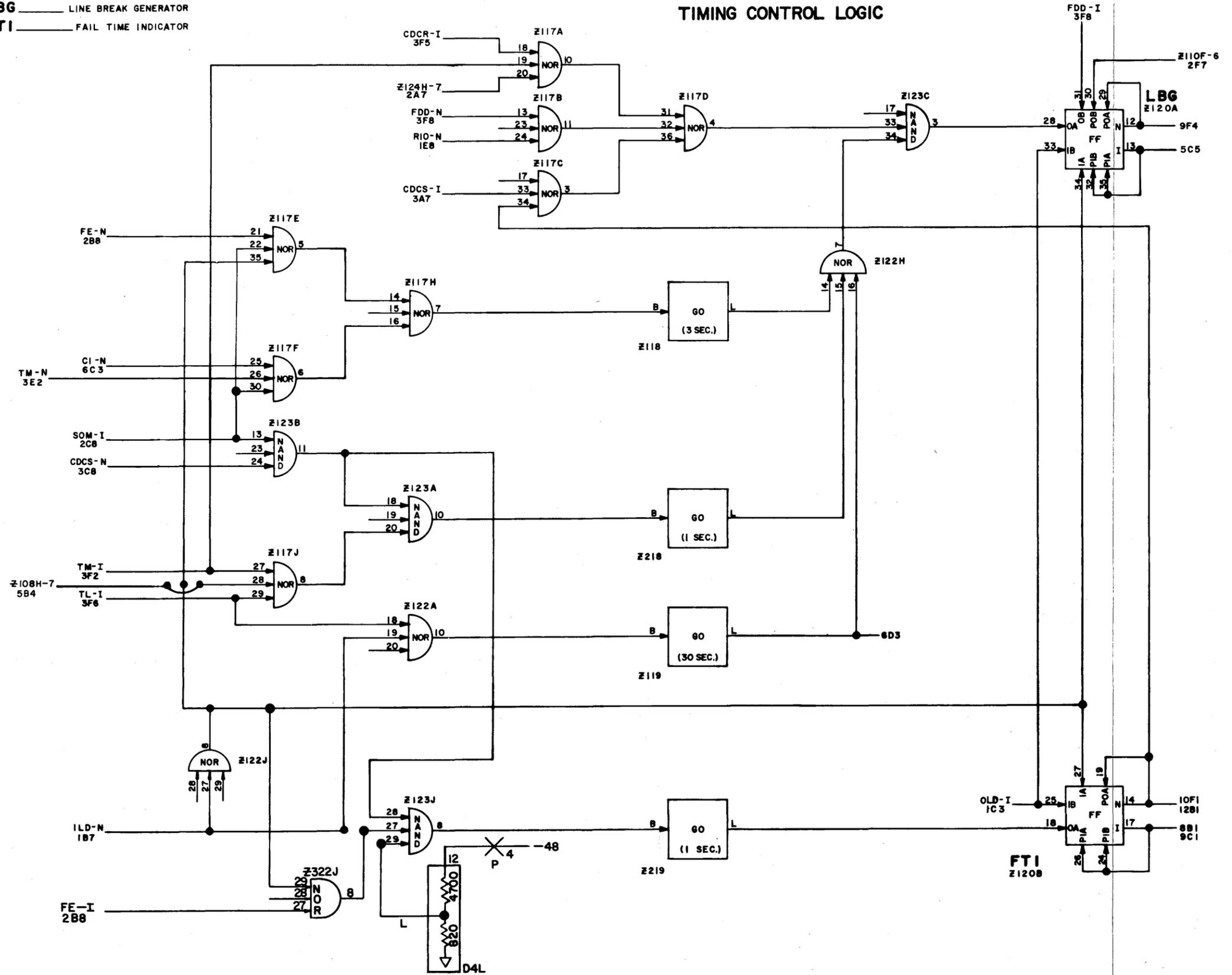
NOTE: REVISION INFORMATION MUST ALSO BE REFLECTED ON THE ISSUE CONTROL RECORD.

7150WD-B4		
REVISIONS		
ISSUE	DATE	AUTH. NO.
1	9-16-64	15790-R
2	4-5-65	85534
3	10-8-65	88904
4	11-8-65	88910
5	11-11-65	88913
6	2-1-66	88923

FUNCTIONAL DESIGNATIONS

LBG _____ LINE BREAK GENERATOR
FTI _____ FAIL TIME INDICATOR

**FS-4
TIMING CONTROL LOGIC**



SHEET 4 OF 24

35A-1
LINE CONTROLLER
FOR
BAI DATA SELECTIVE
CALLING SYSTEM

APPROVALS

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

E-NUMBER

PROD. NO. 7150WD-B4

DATE 2-13-64

P.D. FILE NO. 43-A25AA

DRAWN H.D.S. CHKD. *[Signature]*

ENGD. J.A.J. APPD. *[Signature]*

TELETYPE CORPORATION

7150WD-B4

FUNCTIONAL DESIGNATIONS



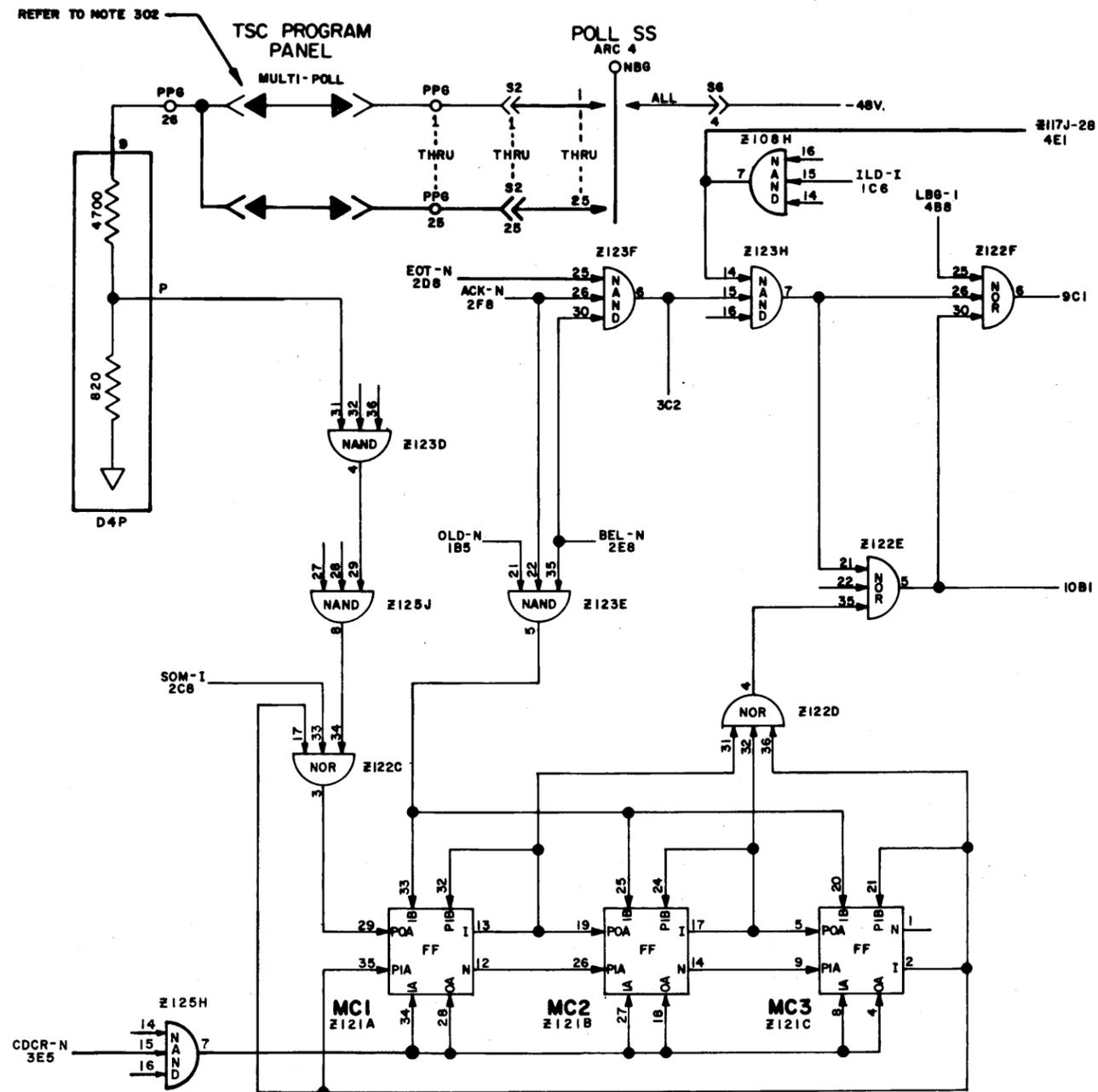
**FS-5
POLLING CONTROL LOGIC**

NOTE: REVISION INFORMATION MUST ALSO BE REFLECTED ON THE ISSUE CONTROL RECORD.

7150WD-B5

REVISIONS

ISSUE	DATE	AUTH NO
1	9-16-64	15790-R
2	4-5-65	85534
3	10-8-65	88904



SHEET 5 OF 24

35A-1
LINE CONTROLLER
FOR
BAI DATA SELECTIVE
CALLING SYSTEM

APPROVALS

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

E-NUMBER
PROD. NO. 7150WD - B5
DATE 2 - 13 - 64
P.D. FILE NO. 43 - A25AA
DRAWN H.D.S. CHKD.
ENGD. J.A.J. APPD.

TELETYPE
CORPORATION

7150WD-B5

7150WD-B6

REVISIONS

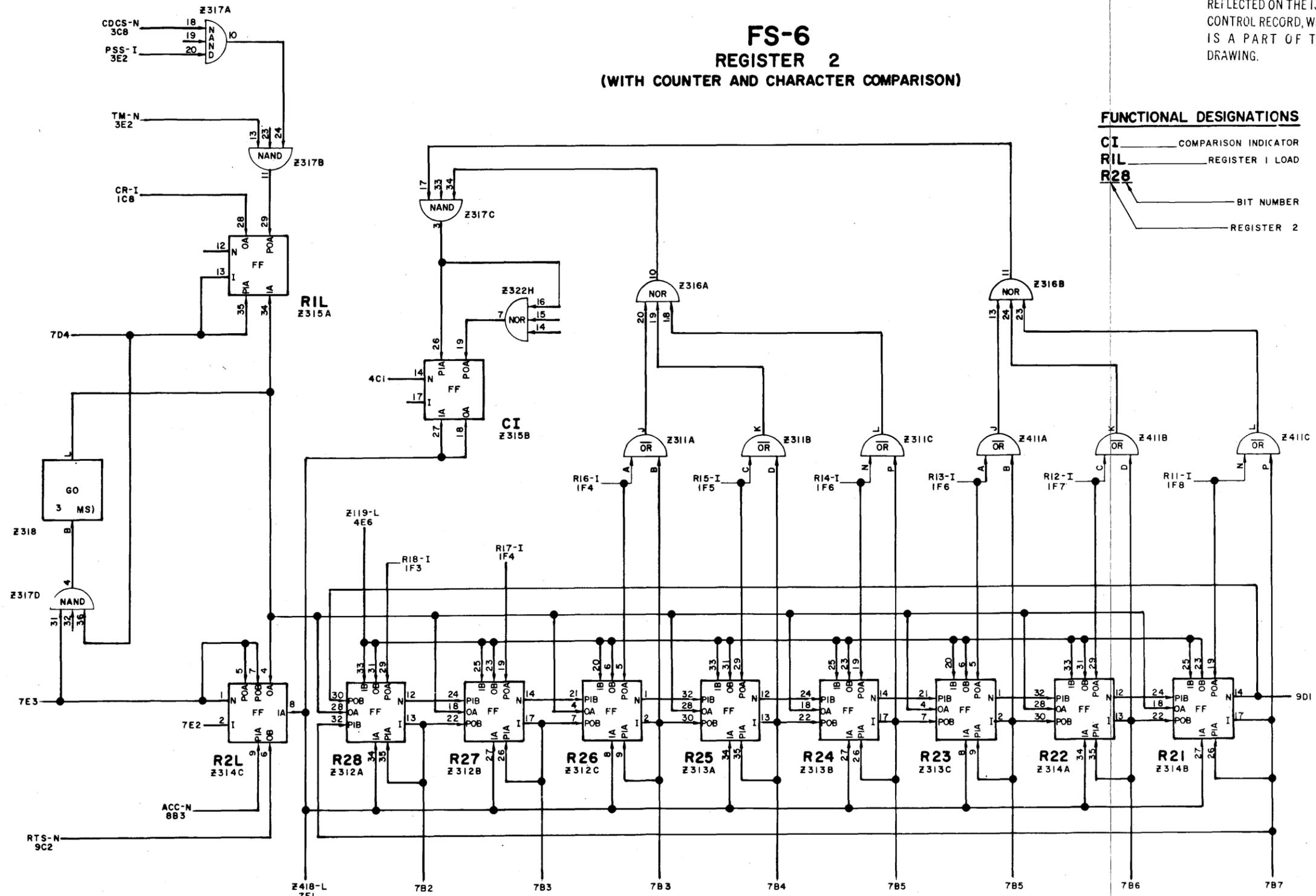
ISSUE	DATE	AUTH. NO.
1	9-16-64	15790-R
2	10-8-65	88904
3	8-23-66	88950

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

FS-6
REGISTER 2
(WITH COUNTER AND CHARACTER COMPARISON)

FUNCTIONAL DESIGNATIONS

- CI ———— COMPARISON INDICATOR
- RIL ———— REGISTER I LOAD
- R28 ———— BIT NUMBER
- REGISTER 2



SEE ISSUE CONTROL RECORD FOR COMPLETE LIST OF SHEETS COMPRISING THIS W.D.
SHEET 6 OF 24

35A-1
LINE CONTROLLER
FOR
BAI DATA SELECTIVE
CALLING SYSTEM

APPROVALS	
D AND R	E OF M
E-NUMBER	
PRD. NO. 7150WD-B6	
DATE 2-17-63	
P.J. FILE NO. 43-A25AA	
DRAWN H.D.S.	CHKD. *
ENGD. J.A.J.	APPD.

TELETYPE CORPORATION

7150WD-B6

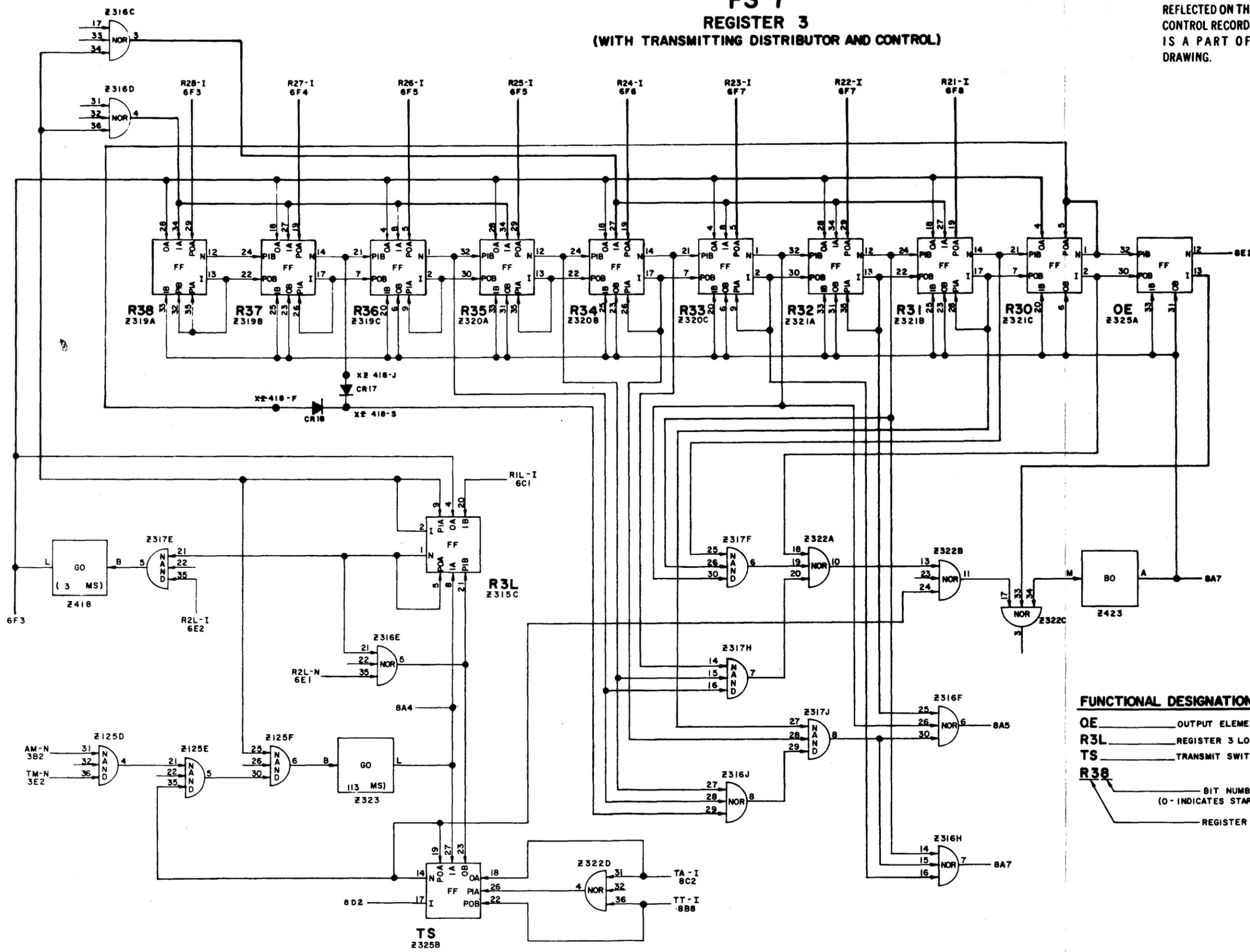
FS-7 REGISTER 3 (WITH TRANSMITTING DISTRIBUTOR AND CONTROL)

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

7150WD-B7

REVISIONS

ISSUE	DATE	AUTH. NO.
1	9-16-64	15790-R
2	10-8-65	88904
3	11-16-65	88912
4	3-8-66	88951
5	8-23-66	88950



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

SHEET 7 OF 24

35A-1
LINE CONTROLLER
FOR
BAI DATA SELECTIVE
CALLING SYSTEM

APPROVALS

D AND R	E OF M
E-NUMBER	
PROD. NO. 7150WD-B7	
DATE 2-19-64	
P.D. FILE NO. 43-A25AA	
DRAWN H.D.S.	CHKD. <i>[Signature]</i>
ENGD. J.A.J.	APPD. <i>[Signature]</i>

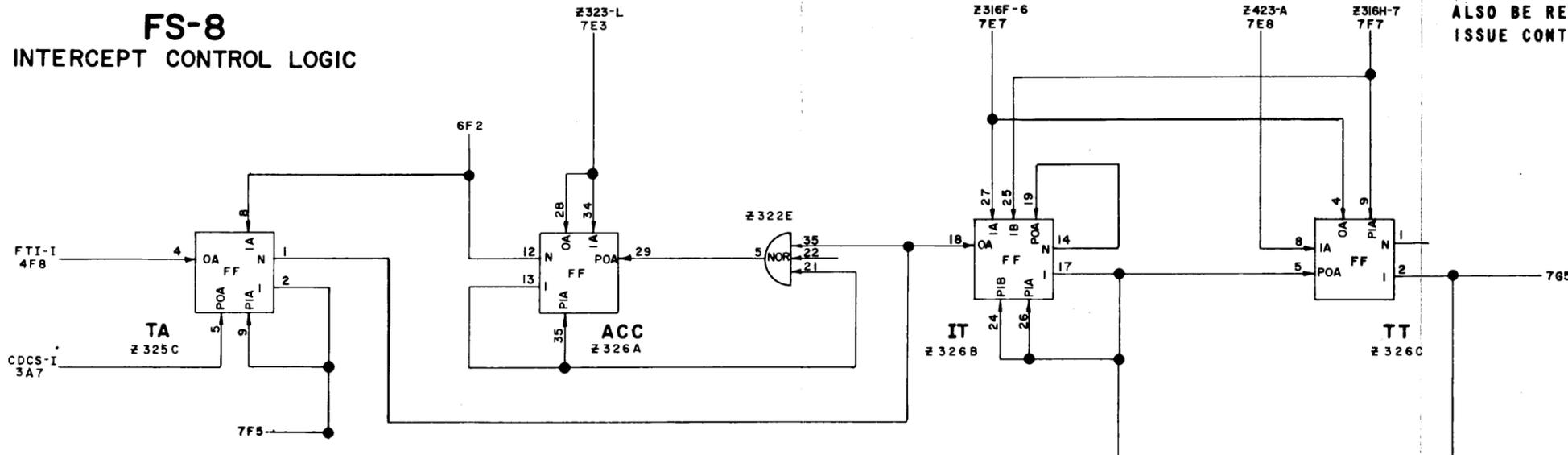
FUNCTIONAL DESIGNATIONS

- OE _____ OUTPUT ELEMENT
- R3L _____ REGISTER 3 LOAD
- TS _____ TRANSMIT SWITCH
- R38 _____ BIT NUMBER
(0- INDICATES START)
- _____ REGISTER 3

TELETYPE
CORPORATION

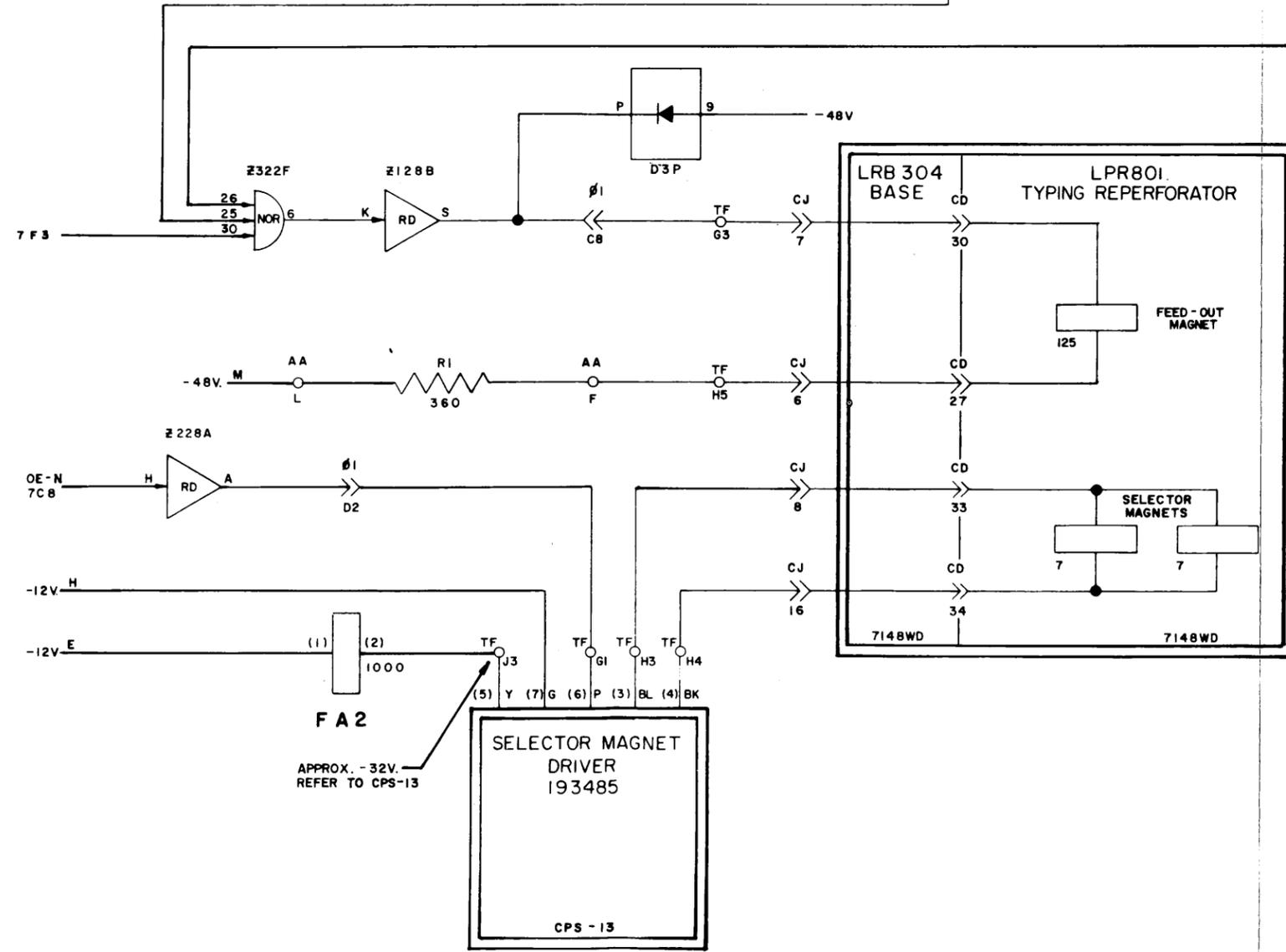
7150WD-B7

FS-8 INTERCEPT CONTROL LOGIC



FUNCTIONAL DESIGNATIONS

- TA _____ TRANSMIT ADDRESS
- ACC _____ ADDRESS CHARACTER COUNTER
- IT _____ INTERCEPT TEXT
- TT _____ TRANSMIT TEXT



NOTE:
REVISION INFORMATION MUST
ALSO BE REFLECTED ON THE
ISSUE CONTROL RECORD.

7150WD-B8		
REVISIONS		
ISSUE	DATE	AUTH. NO.
1	9-16-64	15790-R
2	3-16-65	85517
3	10-8-65	88904
4	11-16-65	88912
5	5-10-66	88933

SHEET 8 OF 24

**35A-1
LINE CONTROLLER
FOR
SAI DATA SELECTIVE
CALLING SYSTEM**

APPROVALS

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

PROD. NO. 7150WD - B8

DATE 2 - 21 - 64

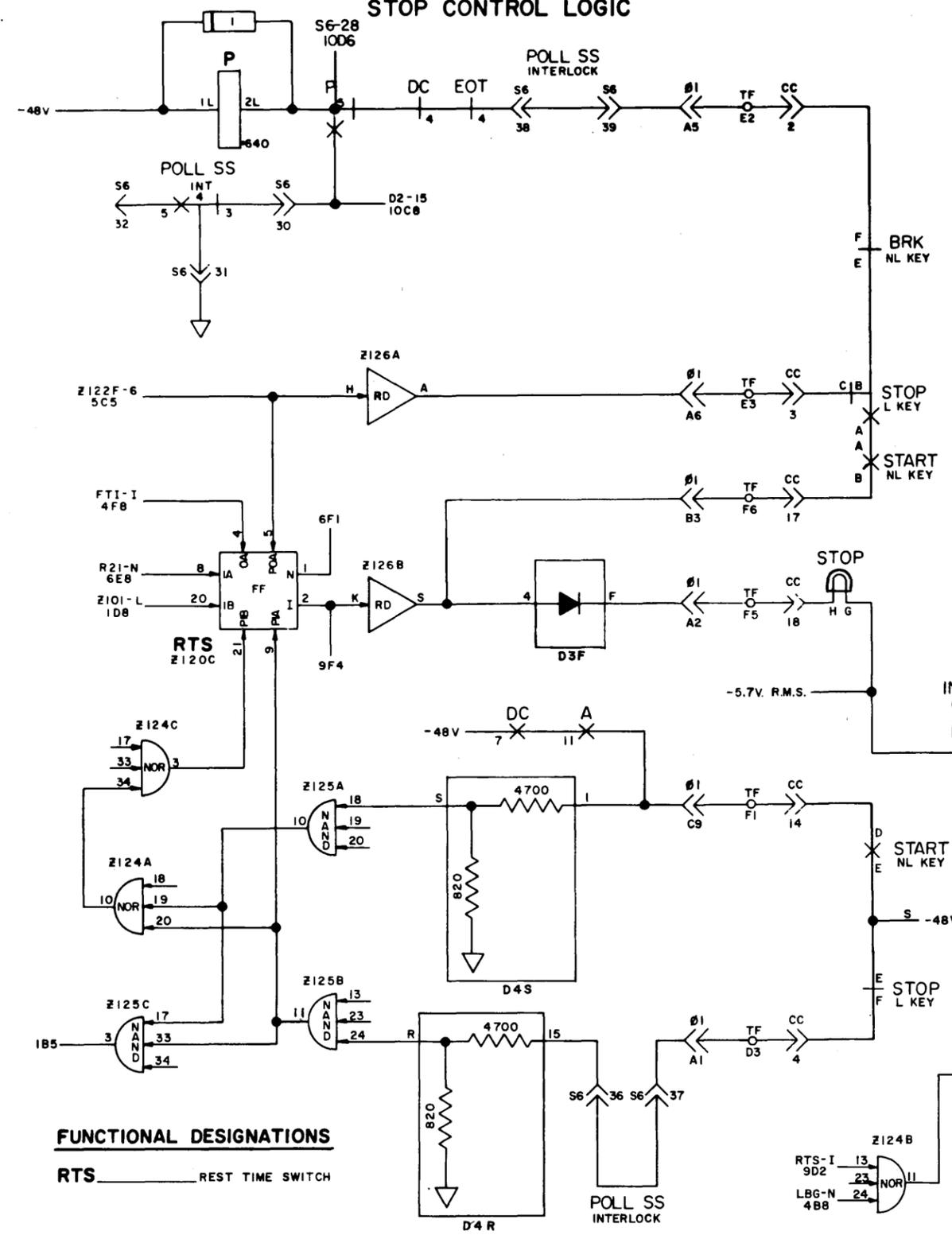
P.D. FILE NO. 43 - A25AA

DRAWN L.J.F.	CHKD. <i>[Signature]</i>
ENGD. J.A.J.	APPD. _____

**TELETYPE
CORPORATION**

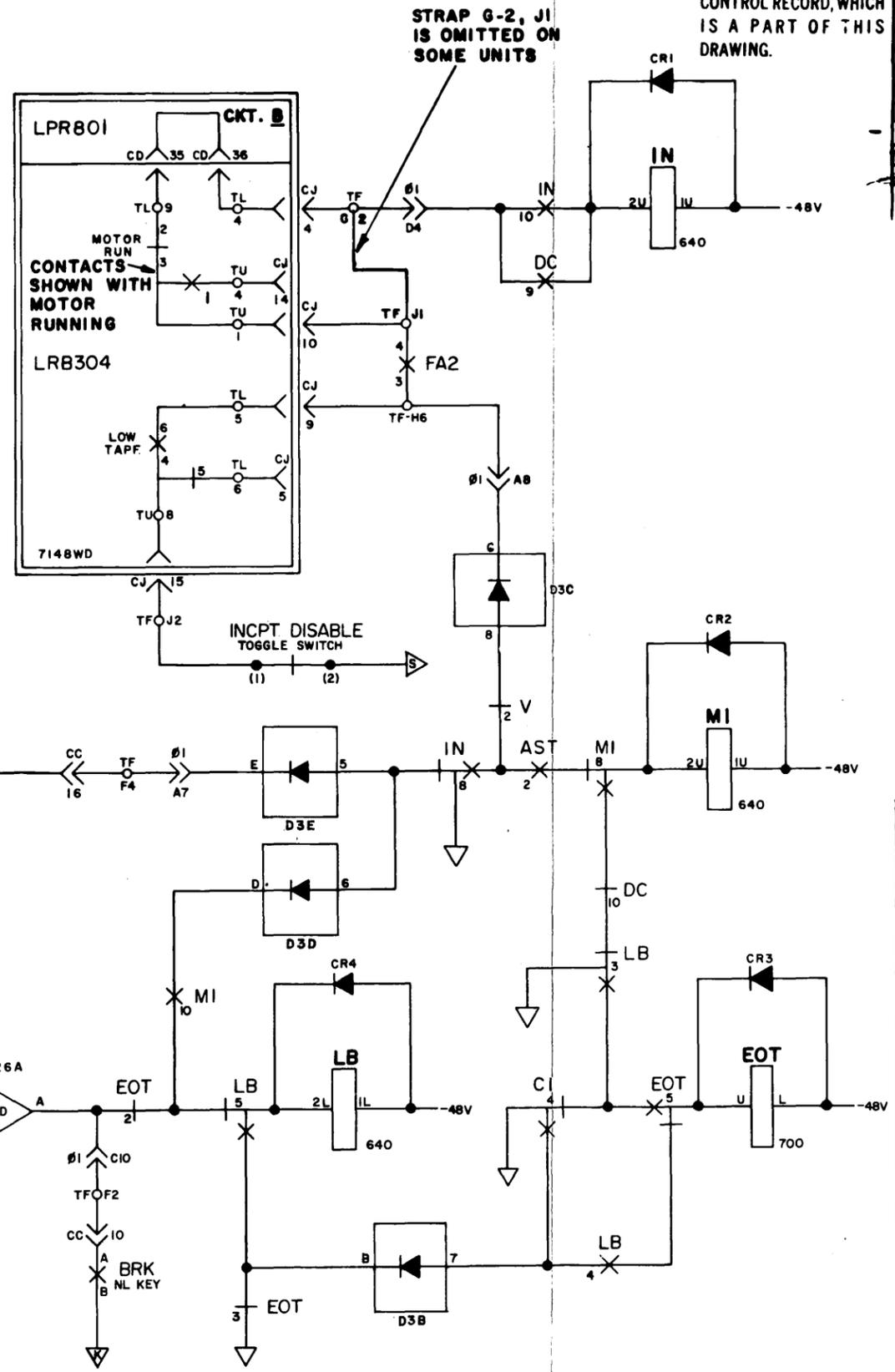
7150WD-B8

FS-9 STOP CONTROL LOGIC



FUNCTIONAL DESIGNATIONS
 RTS REST TIME SWITCH

FS-10 LINE BREAK CONTROL



STRAP G-2, J1 IS OMITTED ON SOME UNITS

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

7150WD-B9		
REVISIONS		
ISSUE	DATE	AUTH NO
1	9-16-64	15790-R
2	3-16-65	85517
3	3-24-65	85514
4	10-8-65	88904
5	10-25-65	88905
6	11-8-65	88910
7	5-10-66	88933
8	8-9-66	88926

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

SHEET 9 OF 24

**35A-1
LINE CONTROLLER
FOR
SAI DATA SELECTIVE
CALLING SYSTEM**

APPROVALS

D AND R <i>[Signature]</i>	E OF M <i>[Signature]</i>
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E-NUMBER
 PROD. NO. 7150WD-B9

DATE 2-18-64

P.D. FILE NO. 43-A25AA

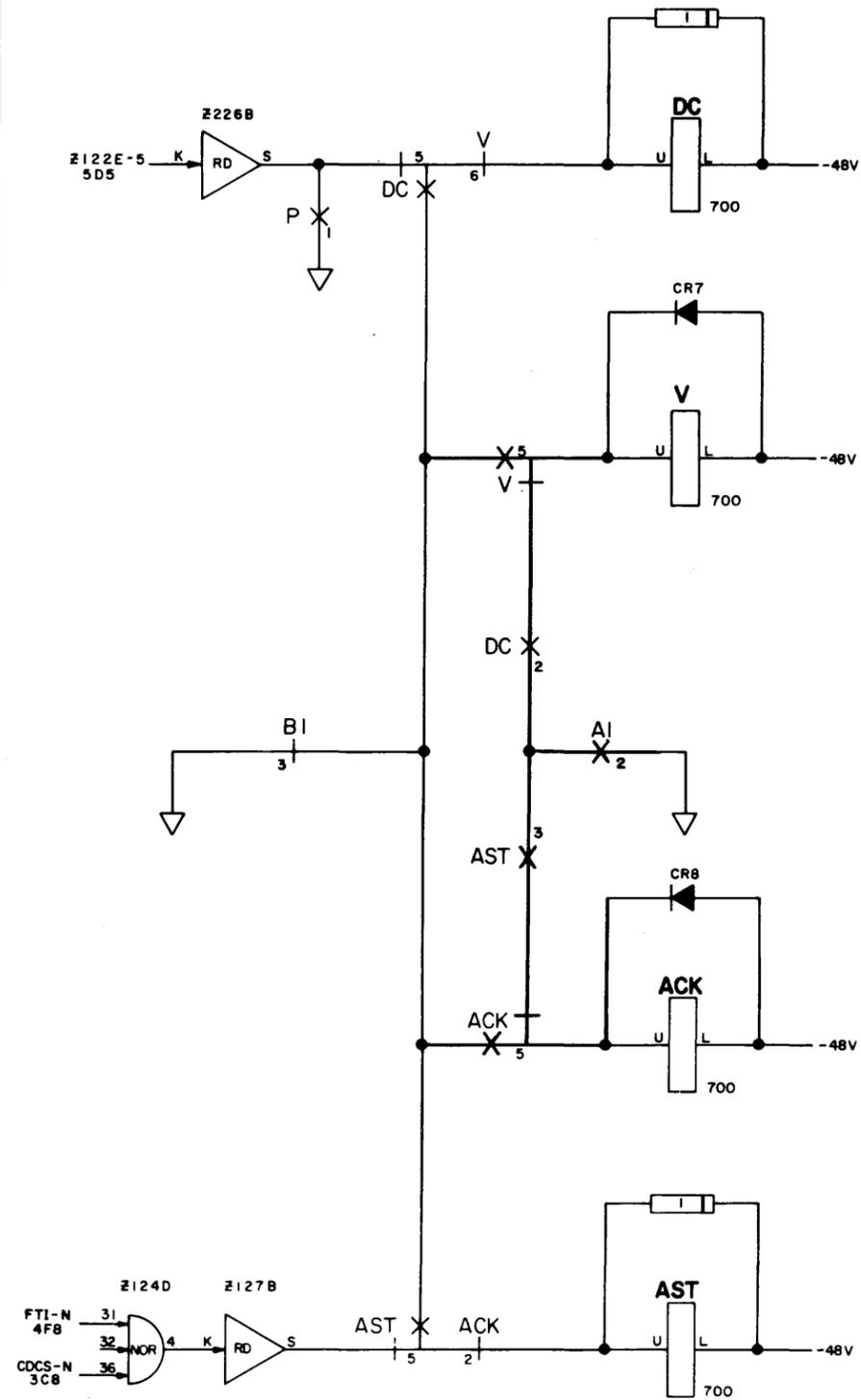
DRAWN E.R. CHKD. *[Signature]*

ENGD. J. A. J. APPD.

TELETYPE CORPORATION

7150WD-B9

FS-II TSC AND RESPONSE ENCODING LOGIC



FS-12 POLLING STEP-SWITCH CONTROL

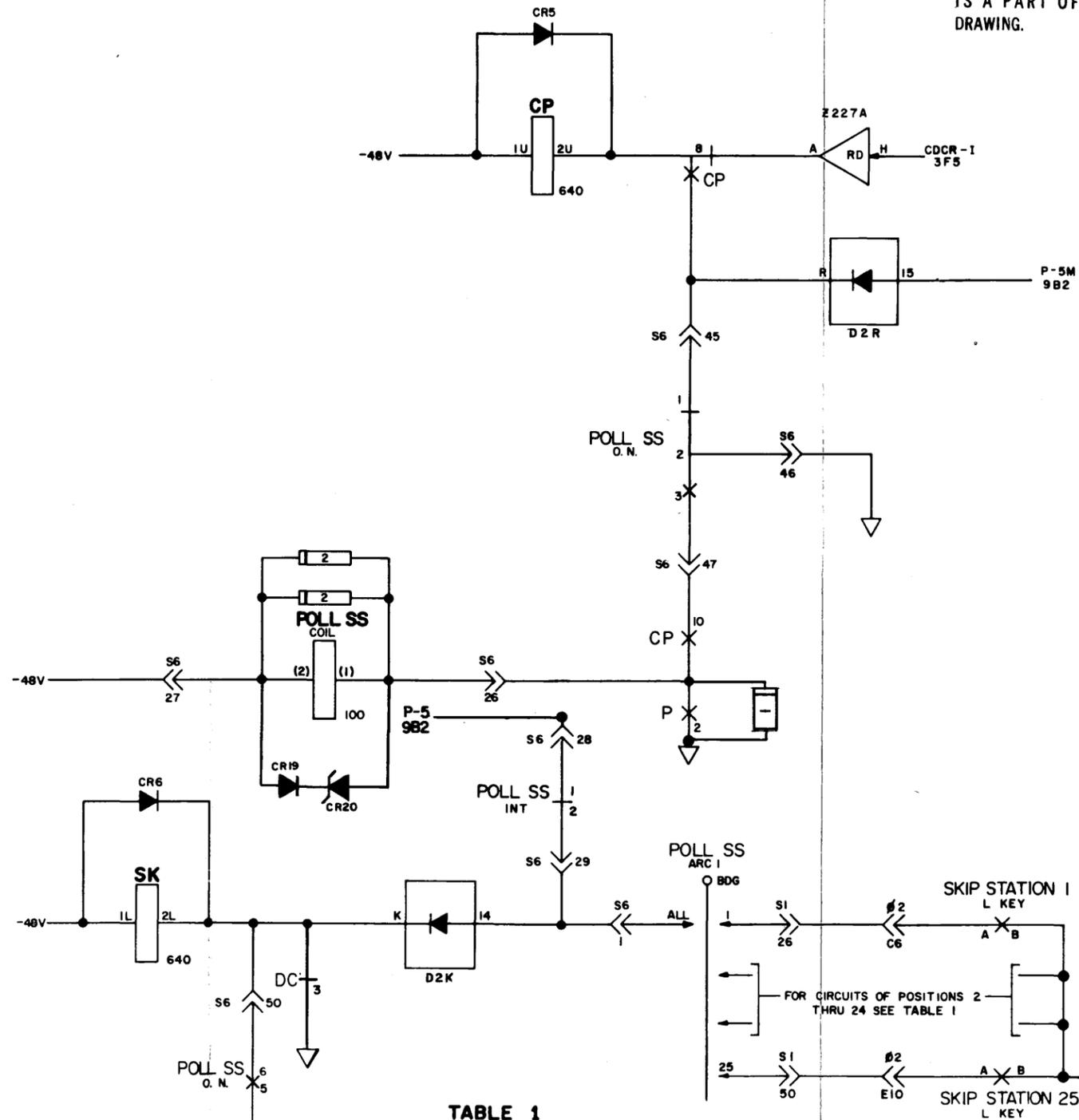


TABLE 1

POLL SS ARC 1 POSITION	CONNECTOR TERMINAL S1	CONNECTOR TERMINAL S2	SKIP STATION L KEY	POLL SS ARC 1 POSITION	CONNECTOR TERMINAL S1	CONNECTOR TERMINAL S2	SKIP STATION L KEY	POLL SS ARC 1 POSITION	CONNECTOR TERMINAL S1	CONNECTOR TERMINAL S2	SKIP STATION L KEY
2	27	C7	2	10	35	D5	10	18	43	E3	18
3	28	C8	3	11	36	D6	11	19	44	E4	19
4	29	C9	4	12	37	D7	12	20	45	E5	20
5	30	C10	5	13	38	D8	13	21	46	E6	21
6	31	D1	6	14	39	D9	14	22	47	E7	22
7	32	D2	7	15	40	D10	15	23	48	E8	23
8	33	D3	8	16	41	E1	16	24	49	E9	24
9	34	D4	9	17	42	E2	17				

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

7150WD-B10

REVISIONS		
ISSUE	DATE	AUTH. NO.
1	9-16-64	15790-R
2	10-8-65	88904
3	11-8-65	88910
4	8-24-66	88949

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

SHEET 10 OF 24

35A-1
LINE CONTROLLER
FOR
BAI DATA SELECTIVE
CALLING SYSTEM

APPROVALS

D AND R
E OF M

E-NUMBER

PROD. NO. 7150WD-B10

DATE 1-27-64

P.D. FILE NO. 43-A25AA

DRAWN E R CHKD.

ENGD. J. A. J. APPD.

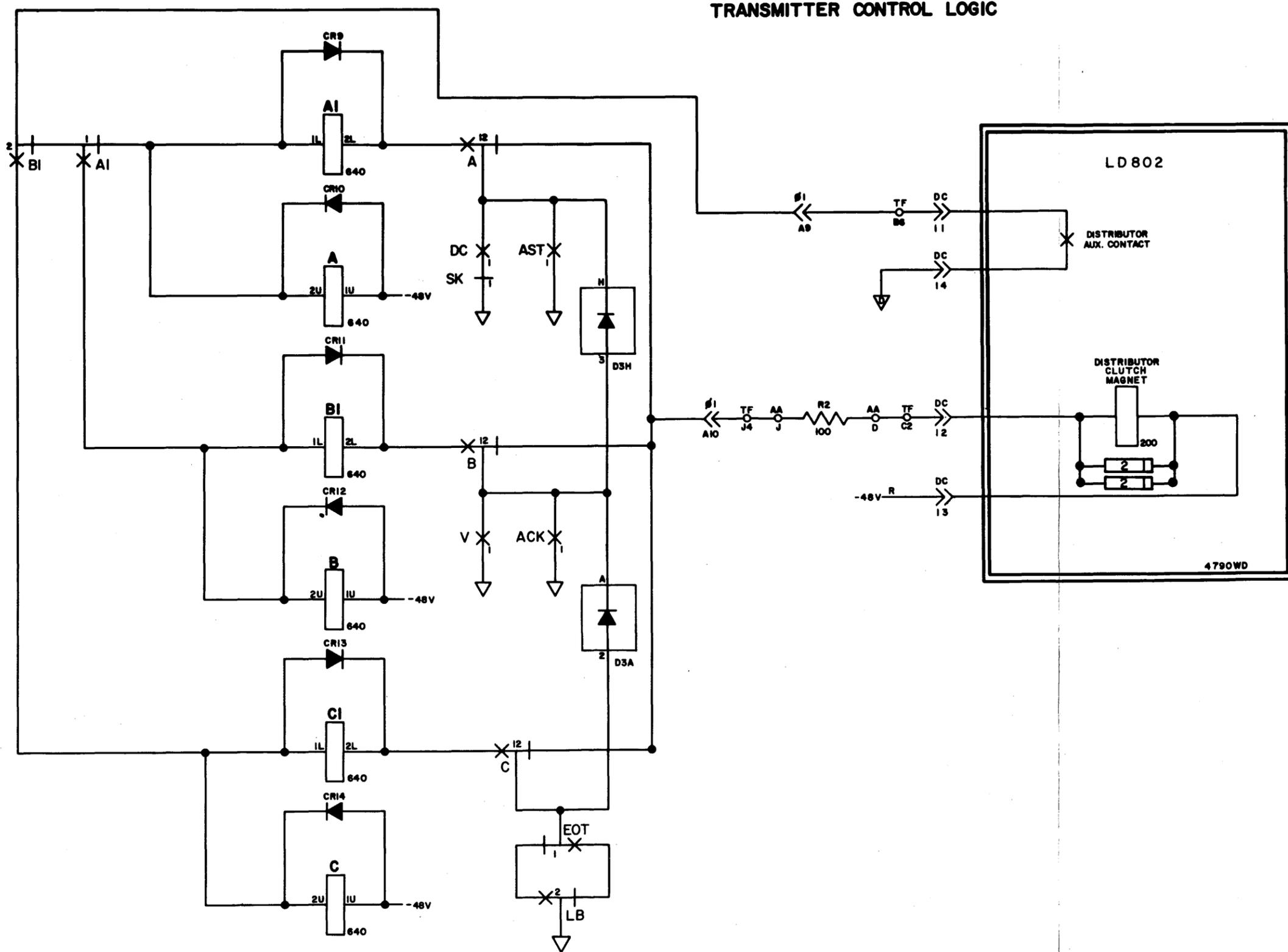
TELETYPE
CORPORATION

7150WD-B10

NOTE: REVISION INFORMATION MUST ALSO BE REFLECTED ON THE ISSUE CONTROL RECORD.

FS-13 TRANSMITTER CONTROL LOGIC

7150WD-B11		
REVISIONS		
ISSUE	DATE	AUTH. NO.
1	9-16-64	15790-R
2	4-5-65	85534
3	10-8-65	88904



SHEET 11 OF 24

35A-1
LINE CONTROLLER
FOR
BAI DATA SELECTIVE
CALLING SYSTEM

APPROVALS	
D AND R <i>HJK</i>	E OF M <i>e</i>
E-NUMBER	
PROD. NO. 7150WD-B11	
DATE 2-14-64	
P.D. FILE NO. 43-A25AA	
DRAWN E. R.	CHKD. <i>[Signature]</i>
ENGD. J. A. J.	APRD. <i>[Signature]</i>

TELETYPE
CORPORATION
7150WD-B11

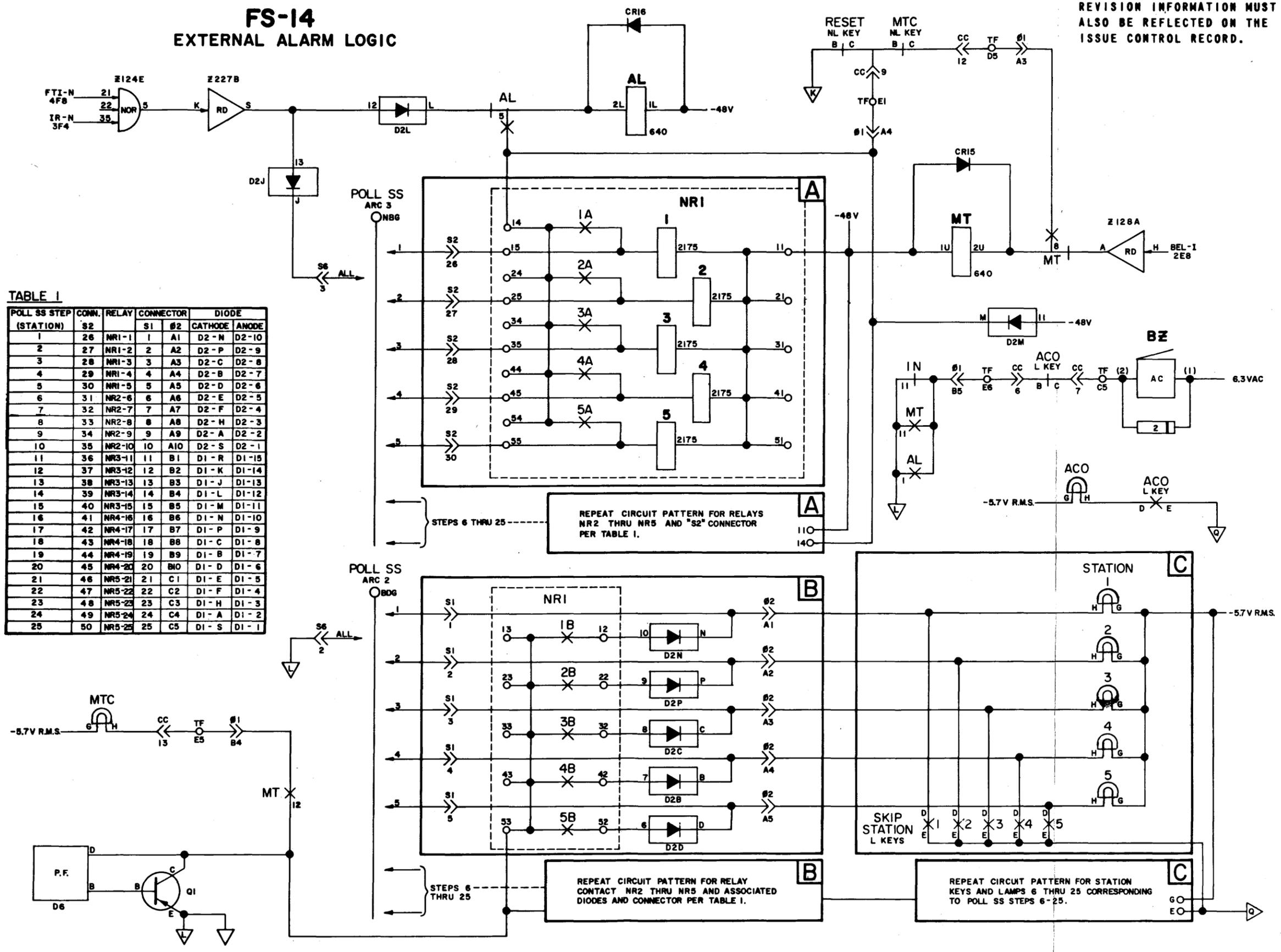
FS-14 EXTERNAL ALARM LOGIC

NOTE:
REVISION INFORMATION MUST
ALSO BE REFLECTED ON THE
ISSUE CONTROL RECORD.

7150WD-B12		
REVISIONS		
ISSUE	DATE	AUTH. NO.
1	9-16-64	15790-R
2	3-24-65	85514
3	10-8-65	88904

TABLE I

POLL SS STEP (STATION)	CONN. S2	RELAY	CONNECTOR S1 #2	CATHODE	ANODE
1	26	NR1-1	1 A1	D2-M	D2-10
2	27	NR1-2	2 A2	D2-P	D2-9
3	28	NR1-3	3 A3	D2-C	D2-8
4	29	NR1-4	4 A4	D2-B	D2-7
5	30	NR1-5	5 A5	D2-D	D2-6
6	31	NR2-6	6 A6	D2-E	D2-5
7	32	NR2-7	7 A7	D2-F	D2-4
8	33	NR2-8	8 A8	D2-H	D2-3
9	34	NR2-9	9 A9	D2-A	D2-2
10	35	NR2-10	10 A10	D2-S	D2-1
11	36	NR3-11	11 B1	D1-R	D1-15
12	37	NR3-12	12 B2	D1-K	D1-14
13	38	NR3-13	13 B3	D1-J	D1-13
14	39	NR3-14	14 B4	D1-L	D1-12
15	40	NR3-15	15 B5	D1-M	D1-11
16	41	NR4-16	16 B6	D1-N	D1-10
17	42	NR4-17	17 B7	D1-P	D1-9
18	43	NR4-18	18 B8	D1-C	D1-8
19	44	NR4-19	19 B9	D1-B	D1-7
20	45	NR4-20	20 B10	D1-D	D1-6
21	46	NR5-21	21 C1	D1-E	D1-5
22	47	NR5-22	22 C2	D1-F	D1-4
23	48	NR5-23	23 C3	D1-H	D1-3
24	49	NR5-24	24 C4	D1-A	D1-2
25	50	NR5-25	25 C5	D1-S	D1-1



REPEAT CIRCUIT PATTERN FOR RELAYS NR2 THRU NR5 AND "S2" CONNECTOR PER TABLE I.

REPEAT CIRCUIT PATTERN FOR RELAY CONTACT NR2 THRU NR5 AND ASSOCIATED DIODES AND CONNECTOR PER TABLE I.

REPEAT CIRCUIT PATTERN FOR STATION KEYS AND LAMPS 6 THRU 25 CORRESPONDING TO POLL SS STEPS 6-25.

SHEET 12 OF 24

35A-1
LINE CONTROLLER
FOR
BAI DATA SELECTIVE
CALLING SYSTEM

APPROVALS

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

E-NUMBER

PROD. NO. 7150WD-B12

DATE 3-13-64

P.D. FILE NO. 43-A25AA

DRAWN H.D.S. CHKD. *[Signature]*

ENGD. J.A.J. APPD. *[Signature]*

TELETYPE CORPORATION

7150WD-B12

7150WD-B13

REVISIONS		
ISSUE	DATE	AUTH. NO.
1	9-16-64	15790-N
2	10-8-64	88904
3	8-23-66	88950

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

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

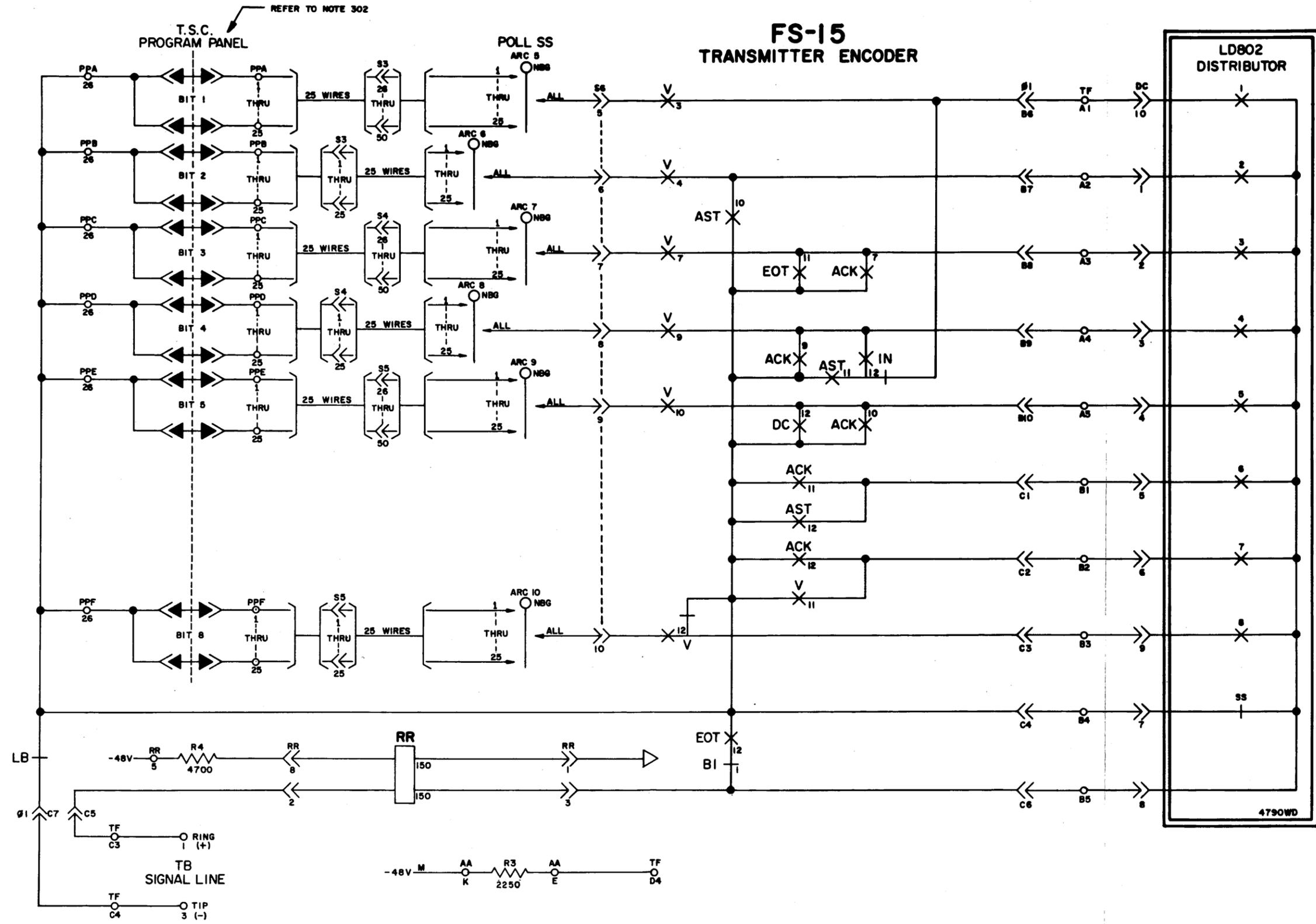
SHEET 13 OF 24

35A-1
LINE CONTROLLER
FOR
BAI DATA SELECTIVE
CALLING SYSTEM

APPROVALS	
D AND R <i>HJK</i>	E OF M <i>[Signature]</i>
E-NUMBER	
PROD. NO. 7150WD-B13	
DATE 3-20-64	
P.D. FILE NO. 43-A25AA	
DRAWN H.D.S.	CHKD. <i>[Signature]</i>
ENGD. J.A.J.	APPD. <i>[Signature]</i>

TELETYPE CORPORATION

7150WD-B13

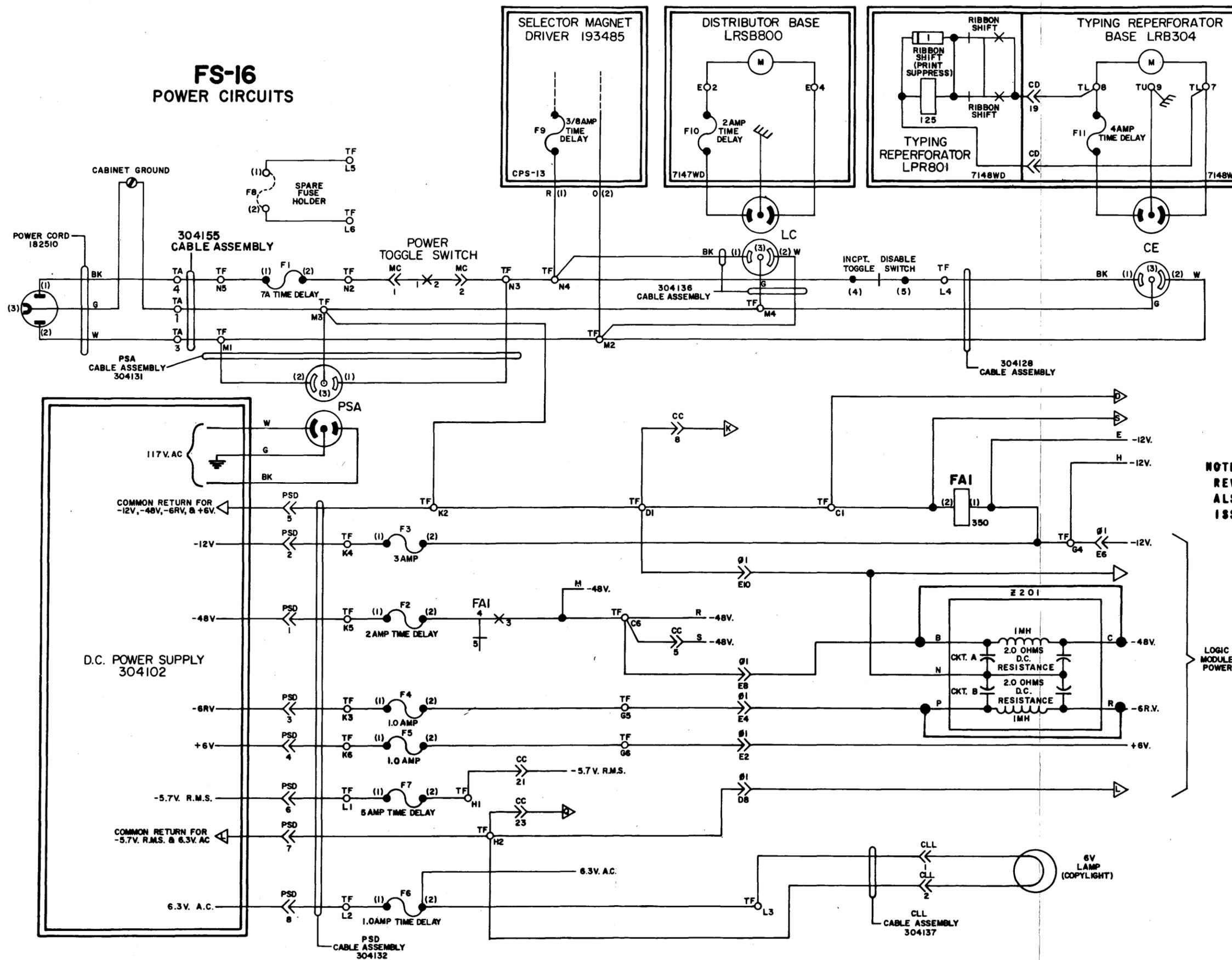


(B)

REVISIONS

ISSUE	DATE	AUTH. NO.
1	9-16-64	15790-R
2	1-7-65	84192
3	3-16-65	85517
4	9-7-65	85554
5	10-6-65	88897
6	10-8-65	88904
7	11-2-65	88906
8	2-1-66	88923
9	5-10-66	88933

FS-16
POWER CIRCUITS



NOTE:
REVISION INFORMATION MUST
ALSO BE REFLECTED ON THE
ISSUE CONTROL RECORD.

SHEET 14 OF 24

35A-1
LIGNE CONTROLLER
FOR
SAI DATA SELECTIVE
CALLING SYSTEM

APPROVALS

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

E-NUMBER

PROD. NO. 7150WD-B14

DATE 3-2-64

R.D. FILE NO. 43-A25AA

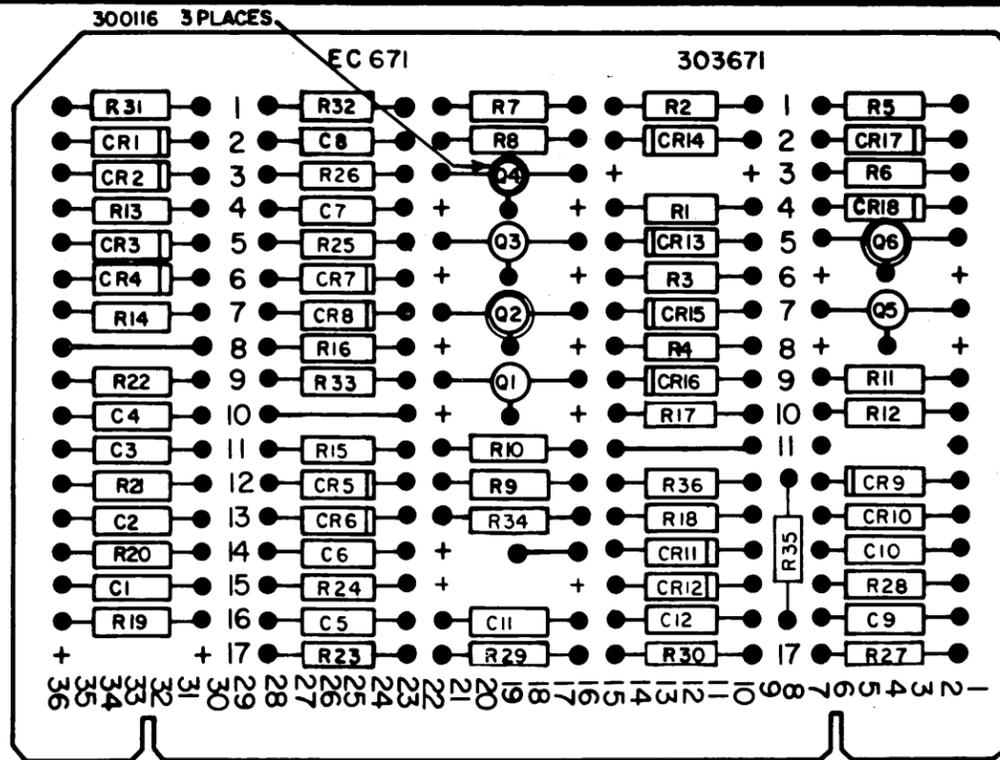
DRAWN E.R./H.D.S. CHKD. *[Signature]*

ENGD. J.A.J. APPD.

TELETYPE
CORPORATION

7150WD-B14

LOGIC
MODULE
POWER



TTY. NO. 303671

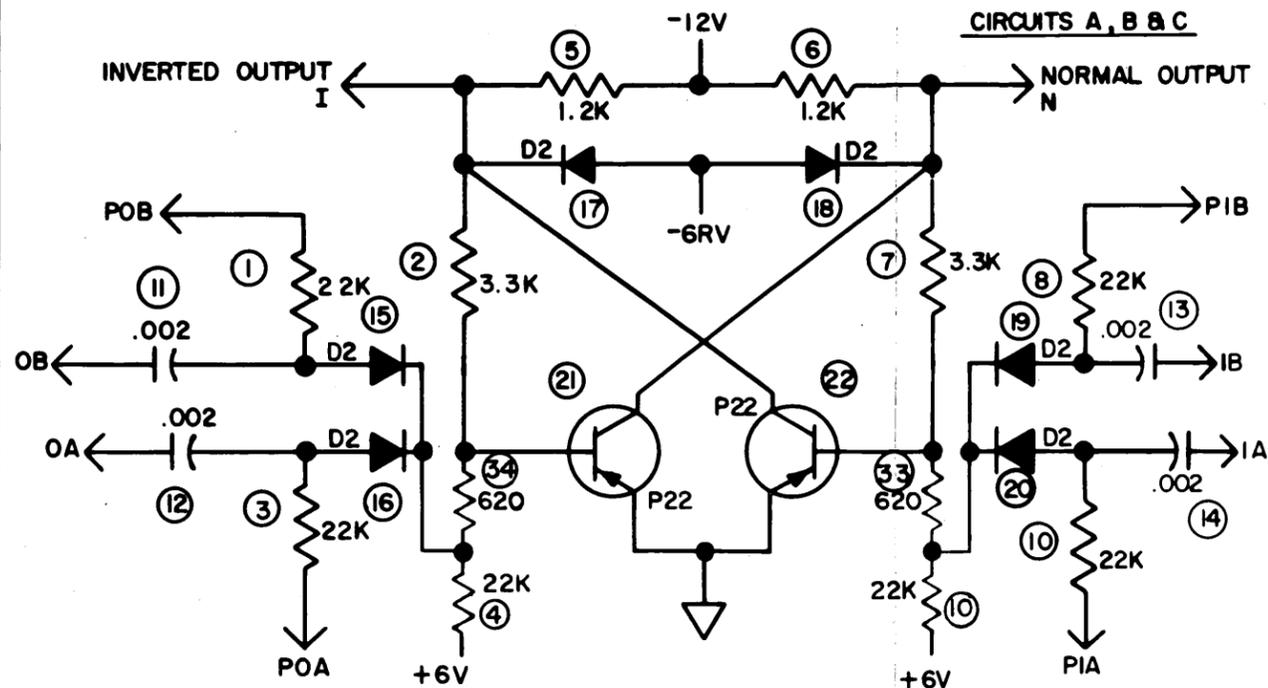
FLIP-FLOP

THE FLIP-FLOP EMPLOYS TWO TRANSISTORS SO ARRANGED THAT WHEN ONE IS CONDUCTING, THE OTHER IS HELD IN A CUTOFF CONDITION. THE COLLECTOR POTENTIAL OF THE CUTOFF TRANSISTOR WILL BE CLAMPED TO -6V BY THE CLAMP DIODE. THE CONDUCTING TRANSISTOR WILL HAVE A POTENTIAL OF -0.3V. THE CIRCUIT IS NORMALLY DRIVEN BY APPLYING A POSITIVE 6V PULSE THROUGH THE DIFFERENTIATING CAPACITOR TO THE BASE OF TRANSISTOR THAT IS ON. THIS RESULTS IN THE ON SIDE TURNING OFF AND THE OFF SIDE TURNING ON. THE POSITIVE PULSES MAY BE BLOCKED BY RETURNING THE INHIBITING RESISTOR TO -6V. THIS PREVENTS THE GATING DIODE FROM CONDUCTING AND COUPLING THE PULSE TO THE BASE OF THE CORRESPONDING TRANSISTOR. WHEN THE INHIBITING RESISTOR IS RETURNED TO GROUND POTENTIAL, THE DRIVER PULSE WILL BE PASSED BY THE CORRESPONDING DIODE.

APPARATUS LIST

RESISTORS	DESIG.	DESCRIPTION	TTY. NO.
	R1 - R6	1200 OHMS	137441
	R7 - R12	3300 OHMS	129851
	R13 - R30	22000 OHMS	118177
	R31 - R36	620 OHMS	137604
CAPACITORS			
	C1 - C12	.002 MFD	177332
DIODES			
	CR1 - CR18	D2	177108
TRANSISTORS			
	Q1 - Q6	P22	177105

CPS-1 FLIP-FLOP

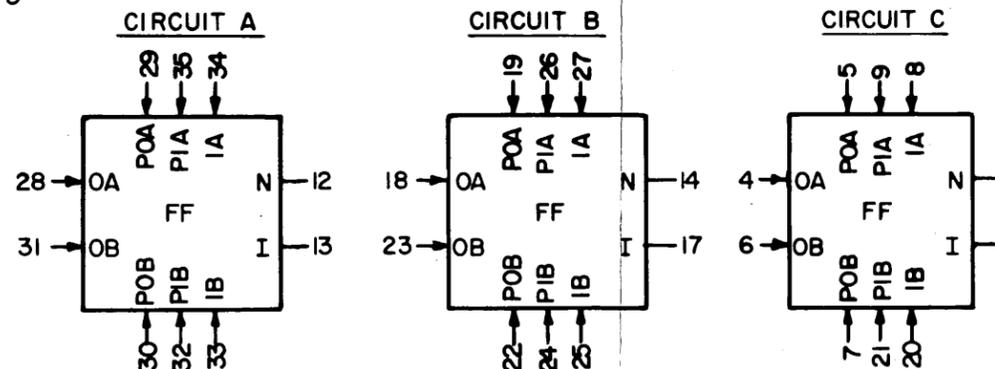


REFER TO TABLE FOR COMPONENT DESIGNATION ASSOCIATED WITH CIRCLED NUMBERS.

NOTE: REVISION INFORMATION MUST ALSO BE REFLECTED ON THE ISSUE CONTROL RECORD.

LOGIC SYMBOLS

(WITH INPUT AND OUTPUT TERMINALS)



INPUT AND OUTPUT TERMINALS NEED NOT APPEAR IN ORDER SHOWN. UNUSED TERMINALS MAY BE OMITTED.

TABLE

	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯
CIRCUIT A	R19	R7	R20	R3	R1	R2	R8	R21	R14	R22	C1	C2	C3	C4	CR1	CR2
CIRCUIT B	R23	R9	R24	R15	R3	R4	R10	R25	R16	R26	C5	C6	C7	C8	CR5	CR6
CIRCUIT C	R27	R11	R28	R17	R5	R6	R12	R29	R18	R30	C9	C10	C11	C12	CR9	CR10

	⑰	⑱	⑲	⑳	㉑	㉒	㉓	㉔
CIRCUIT A	CR13	CR14	CR3	CR4	Q4	Q3	R31	R32
CIRCUIT B	CR15	CR16	CR7	CR8	Q1	Q2	R33	R34
CIRCUIT C	CR17	CR18	CR11	CR12	Q6	Q5	R35	R36

7150WD-B15

REVISIONS		
ISSUE	DATE	AUTH. NO.
1	9-16-64	15790-R
2	3-24-65	85114
3	10-8-65	88904

SHEET 15 OF 24

35A-1
LINE CONTROLLER
FOR
SAI DATA SELECTIVE
CALLING SYSTEM

APPROVALS
D AND R / E OF M
E-NUMBER
PROD. NO. 7150WD-B15

DATE: 3-16-64
P.D. FILE NO. 43-A25AA
DRAWN: E. R. CHKD: [Signature]
ENGD. J. A. J. APPD

TELETYPE CORPORATION

7150WD-B15

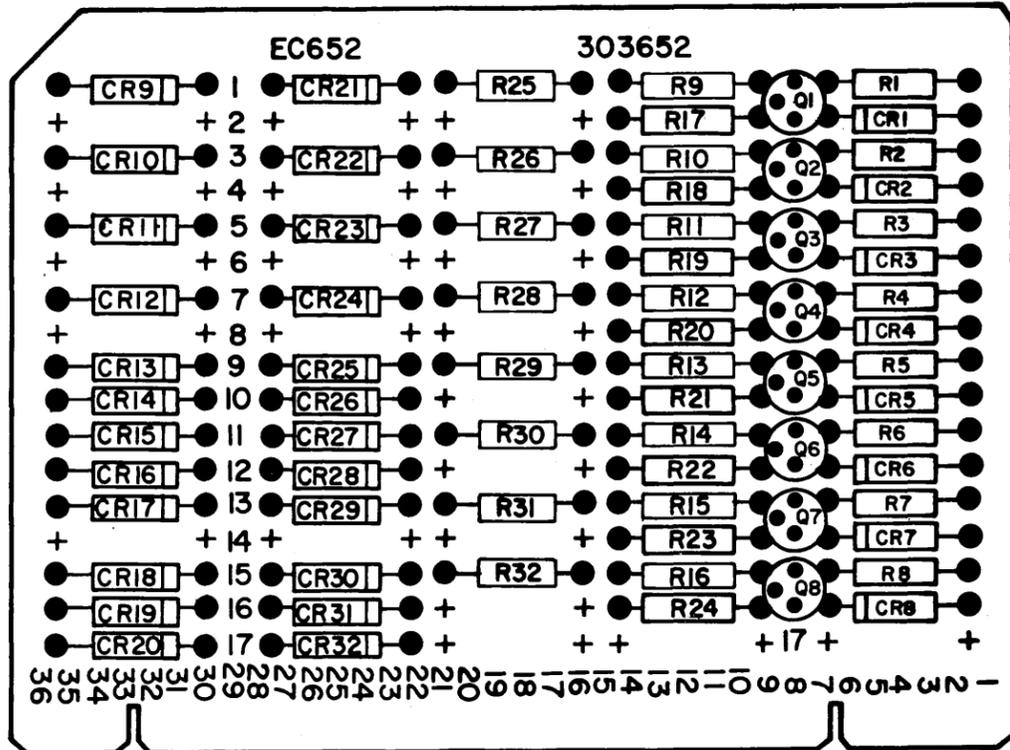
CPS - 2 NOR GATES

NOTE:
REVISION INFORMATION MUST
ALSO BE REFLECTED ON THE
ISSUE CONTROL RECORD.

7150WD-B16

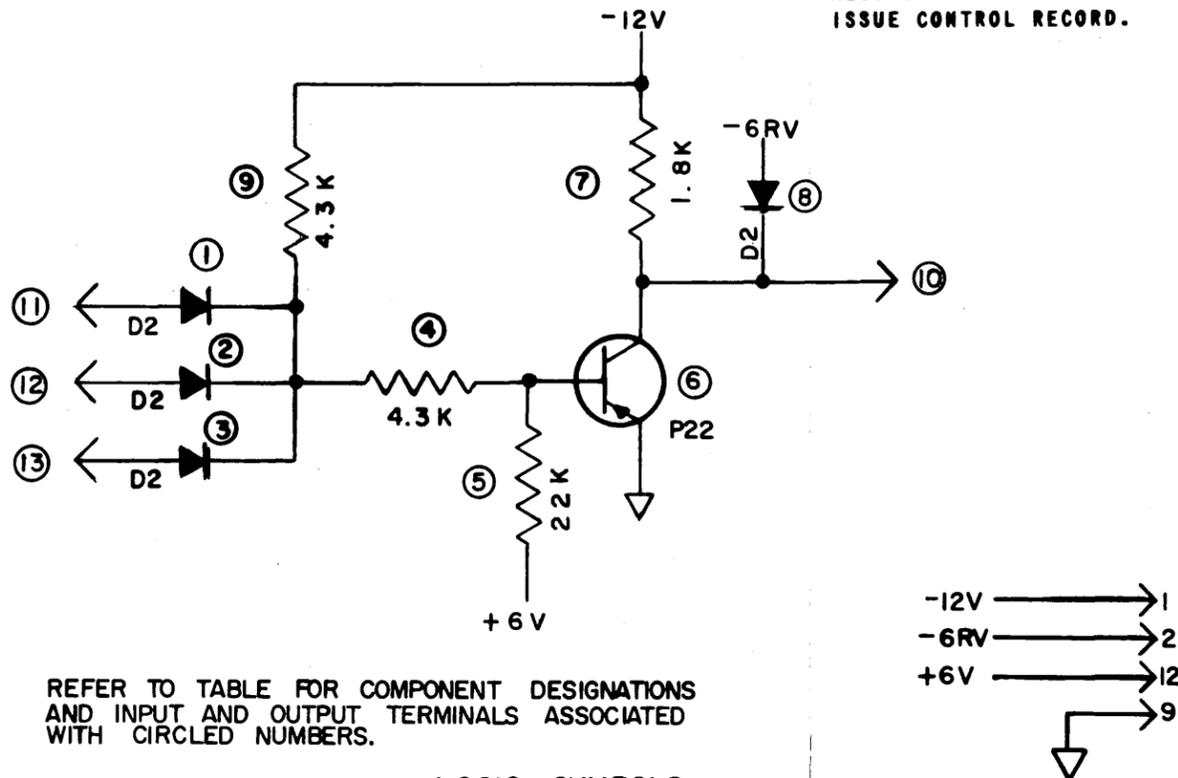
REVISIONS

ISSUE	DATE	AUTH. NO.
1	9-16-64	15790-R
2	10-8-65	88904



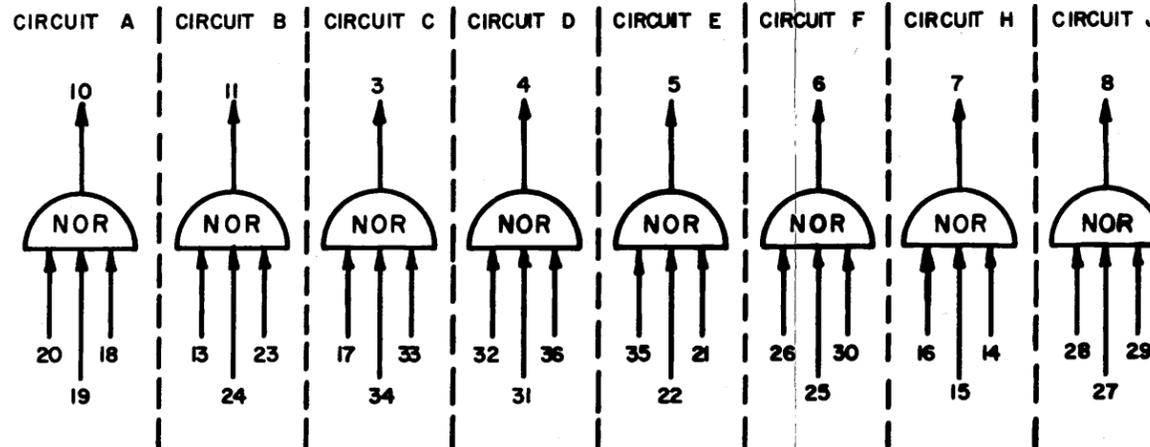
TTY. NO. 303652

THIS CARD CONTAINS EIGHT IDENTICAL "NOR" CIRCUITS. A GROUND APPLIED THROUGH ANY INPUT (11, 12 OR 13 ABOVE) WILL TURN OFF THE TRANSISTOR, PRODUCING AN OUTPUT (AT 10) OF NEGATIVE SIX VOLTS. IF ALL INPUTS ARE NEGATIVE SIX VOLTS, THE TRANSISTOR WILL TURN ON, PRODUCING GROUND AT THE OUTPUT.



REFER TO TABLE FOR COMPONENT DESIGNATIONS AND INPUT AND OUTPUT TERMINALS ASSOCIATED WITH CIRCLED NUMBERS.

LOGIC SYMBOLS



APPARATUS LIST

(ALL 1/2 WATT 5%)

RESISTORS

DESIG.	DESCRIPTION	TTY. NO.
R1 - R8	1800 OHMS	137443
R9 - R16	4300 OHMS	165360
R25 - R32		
R17 - R24		
	22000 OHMS	118177

DIODES

DESIG.	DESCRIPTION	TTY. NO.
CR1 - CR32	D2	177108

TRANSISTORS

DESIG.	DESCRIPTION	TTY. NO.
Q1 - Q8	P22	177105

CIRCUIT COMPONENT CHART

	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬
A	CR15	CR16	CR17	R9	R17	Q1	R1	CR1	R25	10	18	19	20
B	CR21	CR22	CR23	R10	R18	Q2	R2	CR2	R26	11	23	24	13
C	CR12	CR13	CR14	R11	R19	Q3	R3	CR3	R27	3	33	34	17
D	CR9	CR10	CR11	R12	R20	Q4	R4	CR4	R28	4	36	31	32
E	CR18	CR19	CR20	R13	R21	Q5	R5	CR5	R29	5	21	22	35
F	CR27	CR28	CR29	R14	R22	Q6	R6	CR6	R30	6	30	25	26
H	CR24	CR25	CR26	R15	R23	Q7	R7	CR7	R31	7	14	15	16
J	CR30	CR31	CR32	R16	R24	Q8	R8	CR8	R32	8	29	27	28

SHEET 16 OF 24

35A-1
LINE CONTROLLER
FOR
BAI DATA SELECTIVE
CALLING SYSTEM

APPROVALS

D AND R E OF M

HJK *u*

E-NUMBER

PROD. NO. 7150WD-B16

DATE: 4-3-64

P.D. FILE NO. 43-A25AA

DRAWN. E. R. CHKD.

ENGD. J.A.J. APPD.

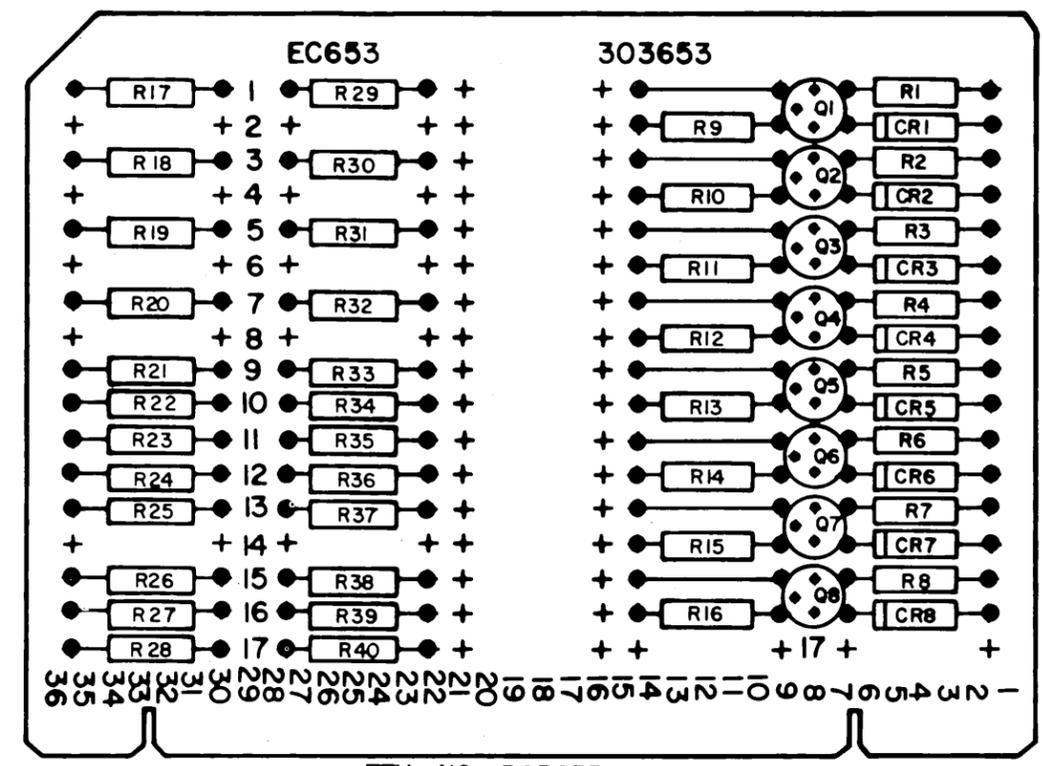
TELETYPE CORPORATION

7150WD-B16

7150WD-B17		
REVISIONS		
ISSUE	DATE	AUTH. NO.
1	9-16-64	15790-R
2	10-8-65	88904

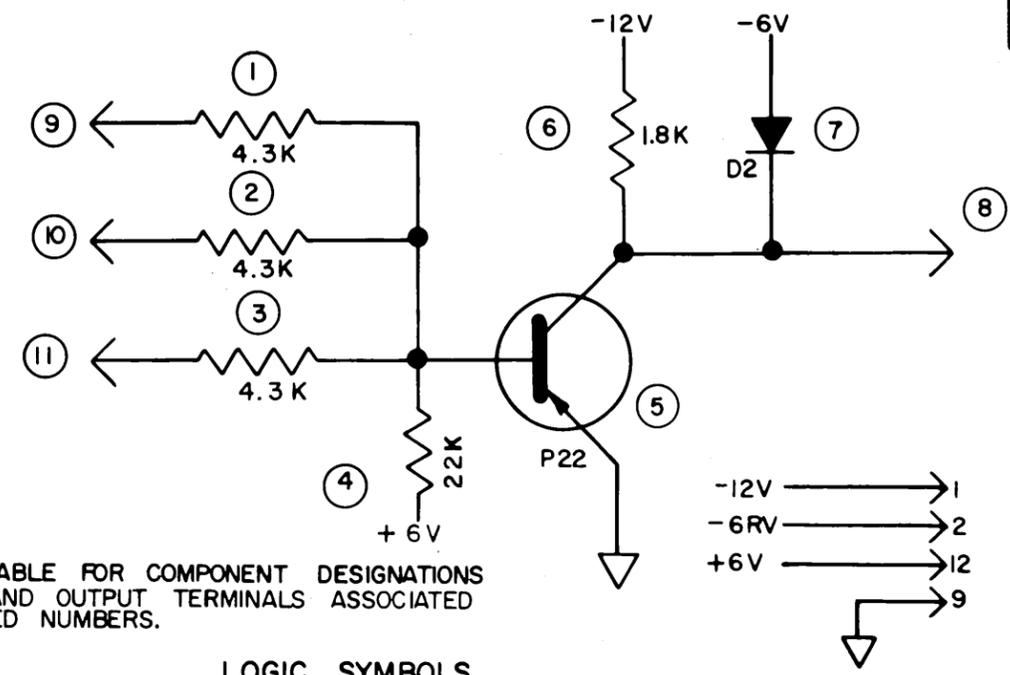
CPS-3 NAND GATES

NOTE: REVISION INFORMATION MUST ALSO BE REFLECTED ON THE ISSUE CONTROL RECORD.



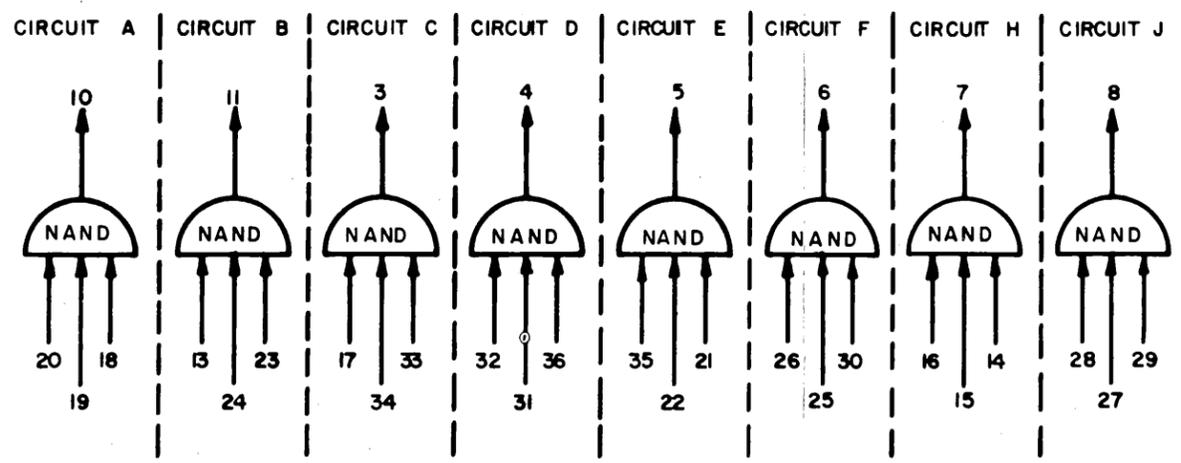
TTY. NO. 303653

THIS CARD CONTAINS EIGHT IDENTICAL "NAND" CIRCUITS. A NEGATIVE SIX VOLTS APPLIED AT ANY OF THE INPUTS (9, 10 AND 11 ABOVE) WILL TURN ON THE TRANSISTOR, PRODUCING GROUND AT THE OUTPUT (8). IF ALL INPUTS ARE GROUND, THE TRANSISTOR WILL TURN OFF, PRODUCING A NEGATIVE SIX VOLTS AT THE OUTPUT.



REFER TO TABLE FOR COMPONENT DESIGNATIONS AND INPUT AND OUTPUT TERMINALS ASSOCIATED WITH CIRCLED NUMBERS.

LOGIC SYMBOLS



APPARATUS LIST			
	DESIG.	DESCRIPTION	TTY. NO.
RESISTOR	R1-R8	1.8K OHMS	137443
	R9-R16	22K OHMS	118177
	R17-R40	4.3K OHMS	165360
DIODE	CR1-8	D2	177108
TRANSISTOR	Q1-Q8	P22	177105

CIRCUIT COMPONENT CHART											
	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪
A	R23	R24	R25	R9	Q1	R1	CR1	10	18	19	20
B	R29	R30	R31	R10	Q2	R2	CR2	11	23	24	13
C	R20	R21	R22	R11	Q3	R3	CR3	3	33	34	17
D	R17	R18	R19	R12	Q4	R4	CR4	4	36	31	32
E	R26	R27	R28	R13	Q5	R5	CR5	5	21	22	35
F	R35	R36	R37	R14	Q6	R6	CR6	6	30	25	26
H	R32	R33	R34	R15	Q7	R7	CR7	7	14	15	16
J	R38	R39	R40	R16	Q8	R8	CR8	8	29	27	28

SHEET 17 OF 24

35A-1
LINE CONTROLLER
FOR
BAI DATA SELECTIVE
CALLING SYSTEM

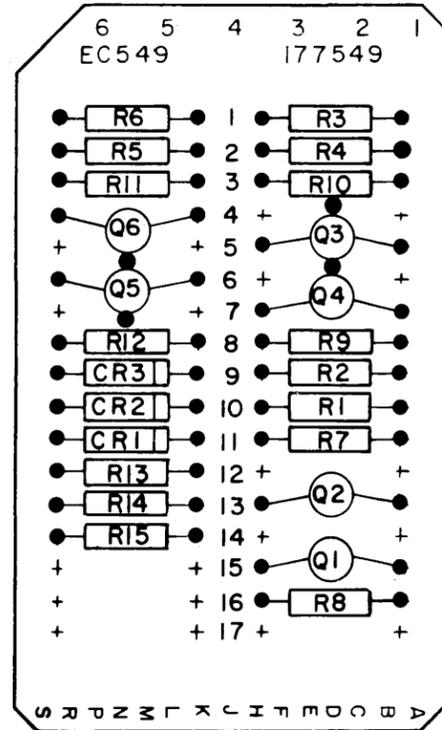
APPROVALS
D AND R: [Signature]
E OF M: [Signature]
E-NUMBER
PROD. NO. 7150WD-B17

DATE: 4-3-64
P.D. FILE NO. 43-A25AA
DRAWN: E. R. CHKD: [Signature]
ENGD. J.A.J. APPD.

TELETYPE
CORPORATION
7150WD-B17

7150WD-B18		
REVISIONS		
ISSUE	DATE	AUTH. NO.
1	9-16-64	15790-R
2	3-24-65	85514
3	10-8-65	88904

CPS-4 EXCLUSIVE OR GATES



TTY NO. 177549

THIS CARD CONTAINS 3 IDENTICAL EXCLUSIVE OR GATES. THESE CIRCUITS MAY BE USED TO COMPARE THE OUTPUTS OF TWO OTHER CIRCUITS. WHEN THE INPUTS AT 10 AND 11 ARE BOTH GROUND OR -6V, BOTH TRANSISTORS WILL BE HELD OFF AND THE OUTPUT AT 9 WILL BE -6V. IF THE TWO INPUTS DIFFER, ONE OF THE TWO TRANSISTORS WILL TURN ON AND THE OUTPUT WILL BE GROUND.

APPARATUS LIST

RESISTORS

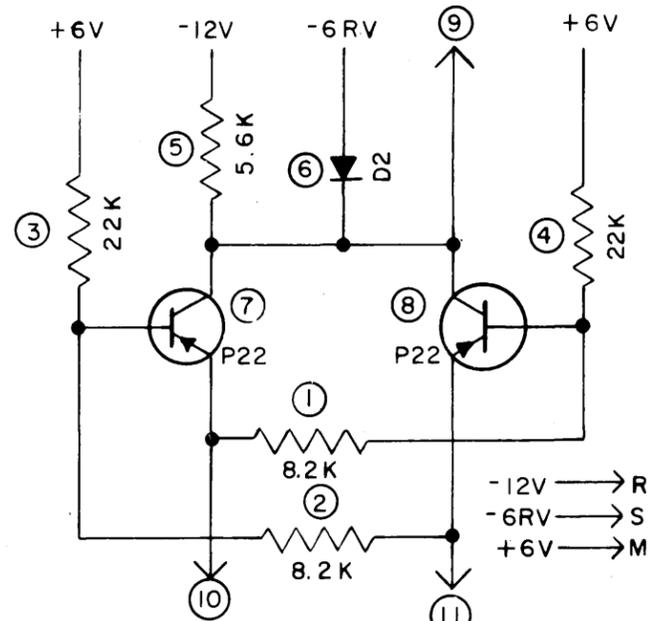
DESIG.	DESC.	TTY. NO.
R1, R6	22,000 OHMS	118177
R7, R12	8,200 OHMS	137444
R13, R15	5,600 OHMS	168168

DIODES

CR1-CR3	D2	177108
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TRANSISTORS

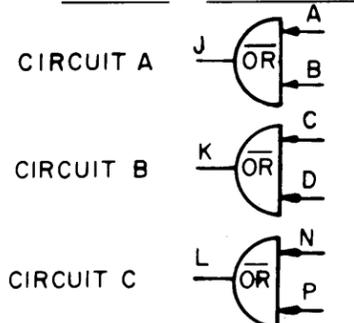
Q1-Q6	P22	177105
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CIRCUITS A, B & C

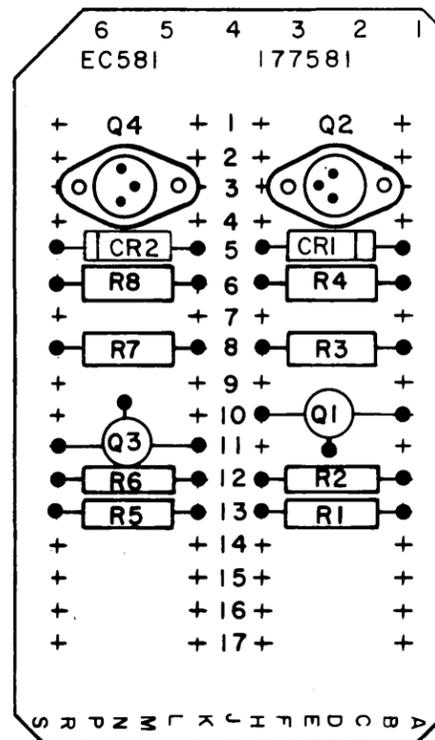
REFER TO TABLE FOR COMPONENT AND INPUT AND OUTPUT DESIGNATIONS ASSOCIATED WITH CIRCLED NUMBERS.

LOGIC SYMBOLS



TABLE

	CIRCUIT A	CIRCUIT B	CIRCUIT C
①	R7	R9	R11
②	R8	R10	R12
③	R2	R4	R6
④	R1	R3	R5
⑤	R13	R14	R15
⑥	CR1	CR2	CR3
⑦	Q2	Q4	Q6
⑧	Q1	Q3	Q5
⑨	J	K	L
⑩	A	C	N
⑪	B	D	P



TTY. NO 177581

THIS CARD CONTAINS TWO IDENTICAL RELAY DRIVERS. IF A GROUND INPUT IS APPLIED AT THE INPUT (H OR K) THE OUTPUT TRANSISTOR WILL GO INTO CONDUCTION. THE OUTPUT TRANSISTOR IS CAPABLE OF SWITCHING 48 VOLTS AT A LOAD OF 250MA. THE OUTPUT TRANSISTOR IS NOT CAPABLE OF WITHSTANDING INDUCTIVE ARCS GENERATED FROM ASSOCIATED RELAYS. A DIODE ARC SUPPRESSOR OR ISOLATING DEVICE SHOULD BE USED TO PROTECT IT.

APPARATUS LIST

RESISTORS

DESIG.	DESC.	TTY. NO.
R1, R5	1,500 OHMS	137442
R2, R6	4,700 OHMS	118146
R3, R7	2,200 OHMS	129852
R4, R8	270 OHMS	118725

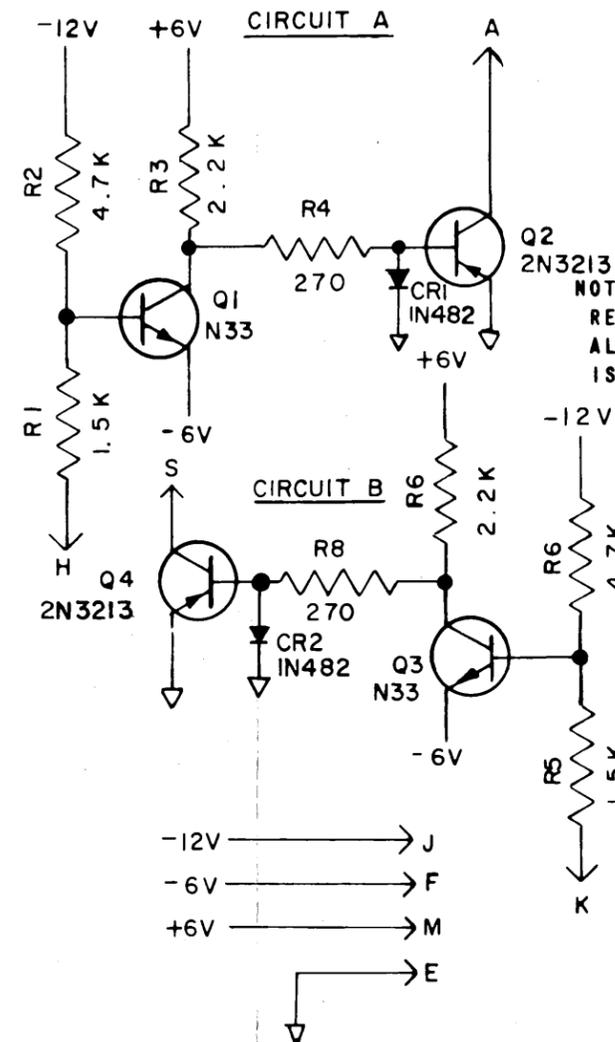
TRANSISTORS

Q1, Q3	N33	177106
Q2, Q4	2N3213	193250

DIODES

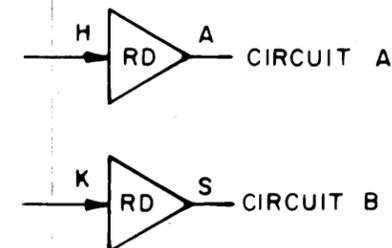
CR1, CR2	IN482	181619
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CPS-5 RELAY DRIVERS



NOTE: REVISION INFORMATION MUST ALSO BE REFLECTED ON THE ISSUE CONTROL RECORD.

LOGIC SYMBOLS



SHEET 18 OF 24

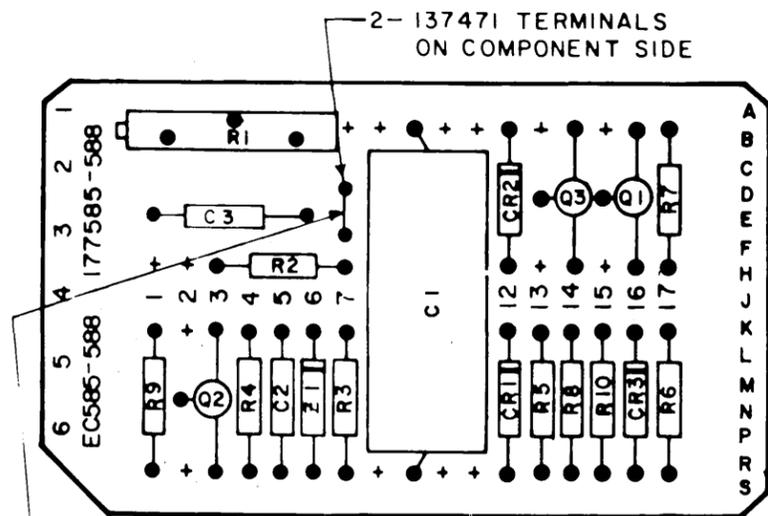
35A-1
LINE CONTROLLER
FOR
BAI DATA SELECTIVE
CALLING SYSTEM

APPROVALS

D AND R	E OF M
<i>[Signature]</i>	<i>[Signature]</i>
E-NUMBER	
PROD. NO. 7150WD-B18	

DATE: 4/6/64
P.D. FILE NO 43-A25AA
DRAWN L.J.F. CHKD *[Signature]*
ENGD J.A.J. APPD

TELETYPE
CORPORATION
7150WD-B18



STRAP

APPARATUS LIST

RESISTORS

DESIG.	DESCRIPTION	TTY. NO.	USED ON
R1	250,000 OHMS VARIABLE	177419	177588
	500,000 OHMS VARIABLE	300022	177585-87
R2	12,000 OHMS	118149	177586,88
	22,000 OHMS	118177	177587
	2,200 OHMS	129852	177585 *
R3	360 OHMS	143669	} ALL
R4	470 OHMS	137602	
R5,6	22,000 OHMS	118177	
R7	5,600 OHMS	118186	
R8	820 OHMS	137439	
R9	100 OHMS	137438	
R10	1,200 OHMS	137441	

CAPACITORS

DESIG.	DESCRIPTION	TTY. NO.	USED ON
C1	250MFD, 25V	304123	177588
	35MFD, 25V	304122	177587
	5MFD, 12V	304141	177586
	.68 MFD	192932	177585 *
C2	.01MFD, 200V	137304	ALL
C3	.033MFD, 100V	181687	177585 **

DIODES

DESIG.	DESCRIPTION	TTY. NO.	USED ON
Z1	ZENER, 15V	177404	} ALL
CR1,2	IN482	181619	
CR3	D2	177108	

TRANSISTORS

DESIG.	DESCRIPTION	TTY. NO.	USED ON
Q1,3	P22	177105	} ALL
Q2	2N1671B	181659	

*R2 IS 3900 OHMS (143667) AND C1 IS 0.39 MFD (304120) ON SOME 177585 CARDS

CPS - 6

TTY. NO.

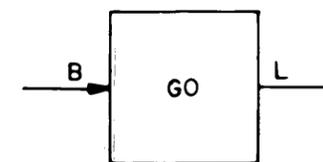
177585
177586
177587
177588

GATED OSCILLATOR

TIMING RANGE

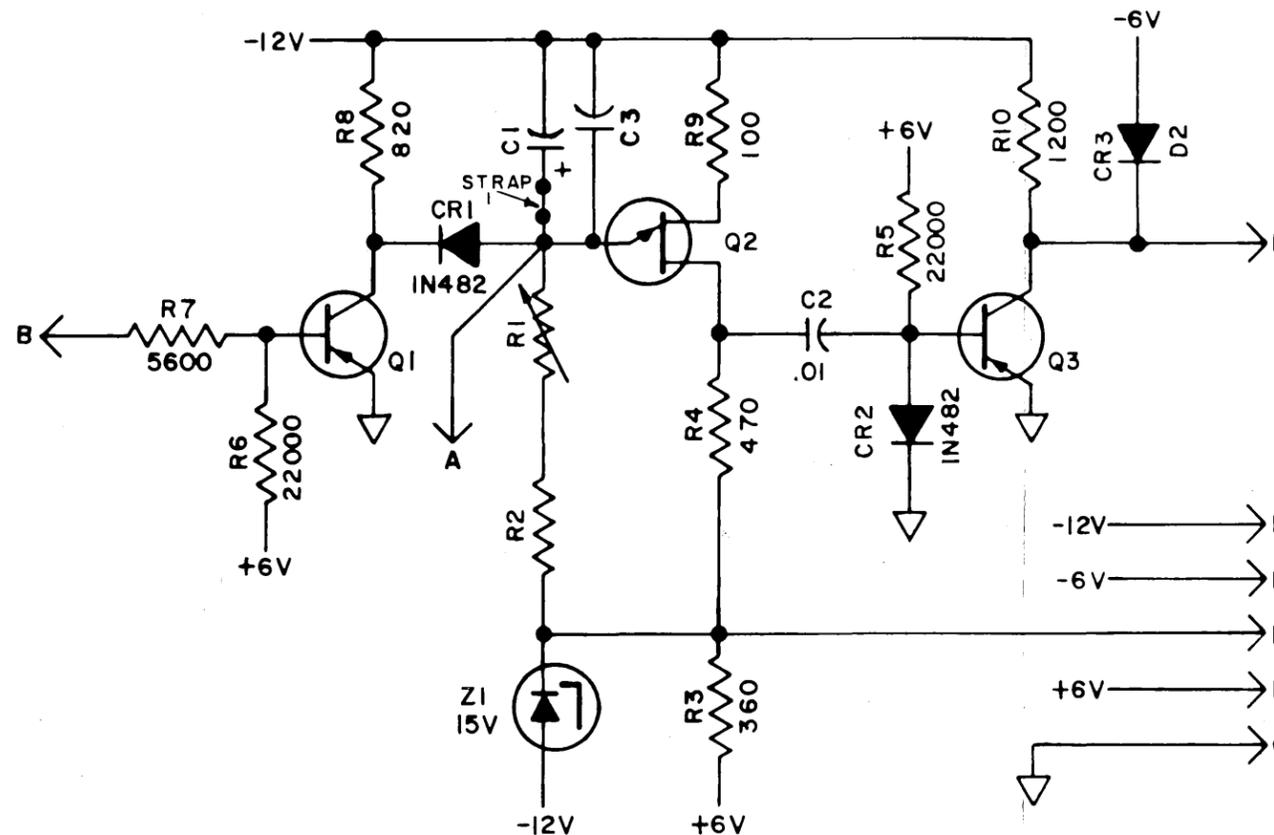
.0017 TO .130 SEC.
.100 TO 1.7 SEC.
1.4 TO 12 SEC.
5 TO 44 SEC.

LOGIC SYMBOL



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

7150WD-B19 REVISIONS		
ISSUE	DATE	AUTH NO
1	9-16-64	15790-R
2	11-9-64	83713
3	7-8-65	85547
4	10-8-65	88904
5	12-22-66	92344
6	2-27-67	93086



THIS SERIES OF GATED OSCILLATORS IS USEFUL FOR OBTAINING TIME DELAYS OF FROM 1.7MS TO 44 SEC. INPUT TRANSISTOR Q1 CONTROLS THE CHARGING OF C1. A -6V INPUT TO Q1 WILL TURN IT ON AND PUT GROUND ON THE CATHODE OF CR2. C1 MAY THEN CHARGE THROUGH R1 AND R2. WHEN THE VOLTAGE ON C1 RISES HIGH ENOUGH, Q2 WILL BREAK DOWN, PRODUCING A NEGATIVE PULSE ACROSS R4. THIS PULSE IS COUPLED TO THE INPUT OF Q3 BY C2, TURNING Q3 ON MOMENTARILY. IF THE INPUT TO Q1 IS MADE GROUND DURING THE TIMING CYCLE, Q1 WILL TURN OFF AND C1 WILL DISCHARGE THROUGH R8. THIS WILL RECYCLE THE TIMING INTERVAL.

**C3 DOES NOT EXIST ON SOME 177585 CARDS, HOWEVER IT IS USED ON THE 177585 CARD ONLY. IF THE CARD HAS A STRAP:

- 1) LEAVE STRAP IN FOR TIMING ADJUSTMENT BETWEEN 7 AND 133MS.
- 2) CUT STRAP FOR TIMING ADJUSTMENT BETWEEN 1.7 AND 7MS.

SEE ISSUE CONTROL RECORD FOR COMPLETE LIST OF SHEETS COMPRISING THIS W.D.
SHEET 19 OF 24

35A-1
LINE CONTROLLER
FOR
BAI DATA SELECTIVE
CALLING SYSTEM

APPROVALS

D AND R E OF M

E-NUMBER

PROD. NO. 7150WD-B19

DATE: 4-6-64

P.D. FILE NO. 43-A25AA

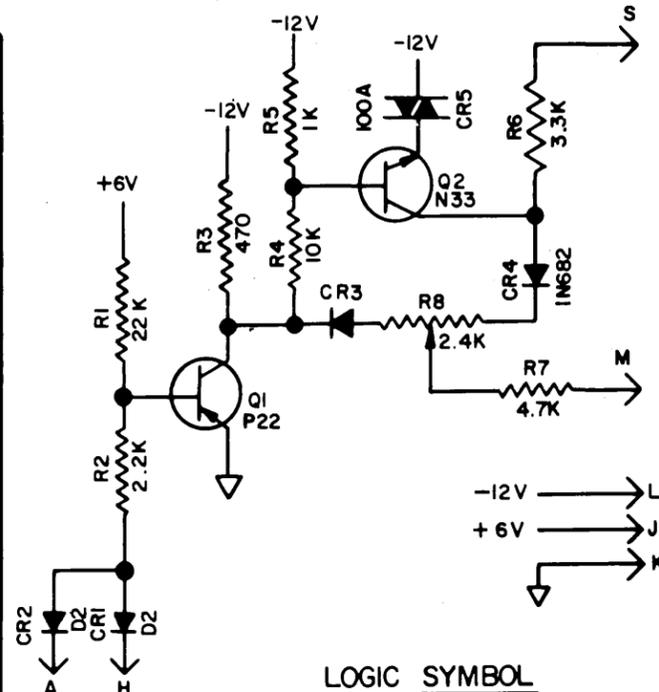
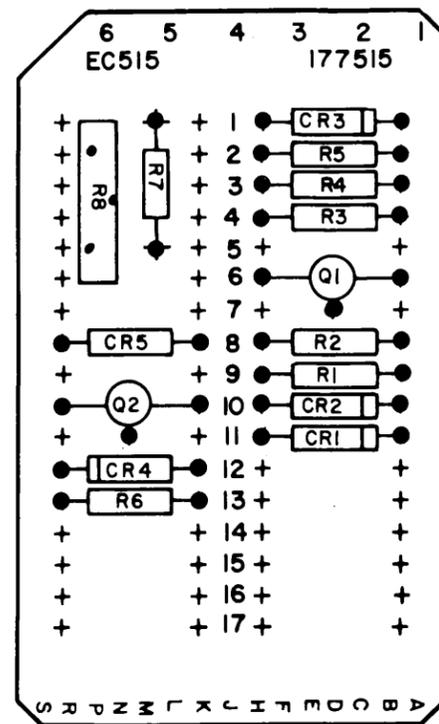
DRAWN: HDS CHKD

ENG. JAJ APPD.

TELETYPE CORPORATION

6 7150WD-B19

CPS - 7 BIT OSCILLATOR CONTROL



THE BIT TIMER CONTROL CIRCUIT PROVIDES A DC VOLTAGE LEVEL TO CONTROL A BIT TIMER. THE LEVEL IS ADJUSTABLE BY MEANS OF R8. IF INPUT A OR H ARE -6 VOLTS, THE ASSOCIATED OSCILLATOR WILL RUN FREELY. IF BOTH INPUTS ARE GROUND, THE OSCILLATOR WILL BE HELD STOPPED WITH THE DC VOLTAGE LEVEL APPLIED TO THE TIMING CAPACITOR (C2 OF 177555).

APPARATUS LIST

RESISTORS (ALL 1/2 WATT 5%)

DESIG.	DESC.	TTY. NO.
R1	22,000 OHMS	118177
R2	2,200 OHMS	129852
R3	470 OHMS	137602
R4	10,000 OHMS	129854
R5	1,000 OHMS	118723
R6	3,300 OHMS	129851
R7	4,700 OHMS	118146
R8	POT 2.4K OHMS	177416

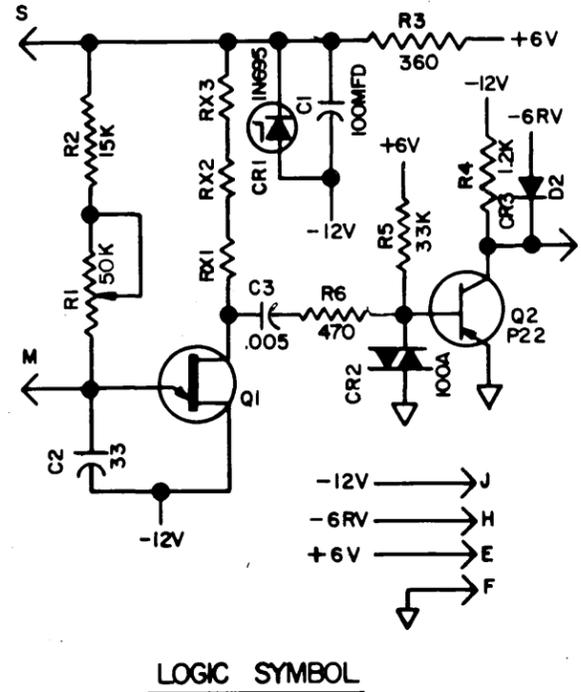
DIODES

DESIG.	DESC.	TTY. NO.
CR1-2	D2	177108
CR3-4	1N682	177611
CR5	VARISTOR 100A	178844

TRANSISTORS

DESIG.	DESC.	TTY. NO.
Q1	P22	177105
Q2	N33	177106

CPS - 8 BIT OSCILLATOR



THIS CIRCUIT IS A FREE RUNNING OSCILLATOR THAT PROVIDES ACCURATELY SPACED OUTPUT PULSES. THESE OUTPUT PULSES MAY BE VARIED FROM 5 TO 13 MS. INPUT M IS USED TO CONTROL THE OSCILLATOR. IF IT IS MADE MORE NEGATIVE THAN -3 VOLTS, THE EMITTER OF THE UNI-JUNCTION TRANSISTOR Q1 WILL NOT BE ABLE TO REACH ITS FIRING VOLTAGE, THEREBY PREVENTING OSCILLATIONS. Q1, R1, R2 AND C2 FORM THE OSCILLATOR CIRCUIT. Q2 AND ITS ASSOCIATED COMPONENTS FORM A PULSE AMPLIFIER FOR THE OUTPUT SIGNAL OF THE OSCILLATOR. THE OUTPUT AT A IS A POSITIVE PULSE FROM -6 TO 0 VOLTS 5 μS LONG.

NOTE

RX1, RX2 AND RX3 ARE TEMP. COMPENSATION RESISTORS FOR Q1. REPLACEMENT OF Q1 WILL REQUIRE DIFFERENT TEMP. COMPENSATION.

APPARATUS LIST

RESISTORS

DESIG.	DESC.	TTY. NO.
R1	POT 50K OHMS	177403
R2	15,000 OHMS	177392
R3	360 OHMS	143669
R4	1,200 OHMS	137441
R5	33,000 OHMS	118153
R6	470 OHMS	137602

CAPACITORS

DESIG.	DESC.	TTY. NO.
C1	100 MFD.	177412
C2	.33 MFD.	177401
C3	.005 MFD.	137303

DIODES

DESIG.	DESC.	TTY. NO.
CR1	ZENER 15V	177404
CR2	VARISTOR 100A	178844
CR3	D2	177108

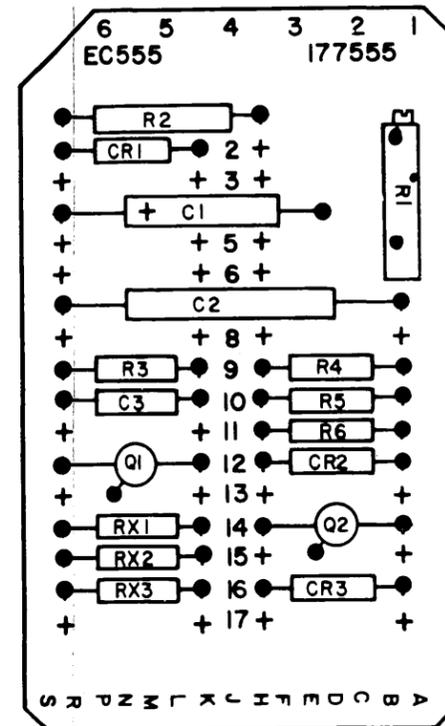
TRANSISTORS

DESIG.	DESC.	TTY. NO.
Q1	UNI-JUNCTION	177402
Q2	P22	177105

NOTE: REVISION INFORMATION MUST ALSO BE REFLECTED ON THE ISSUE CONTROL RECORD.

7150WD-B20

REVISIONS		
ISSUE	DATE	AUTH. NO.
1	9-16-64	15790-R
2	3-24-65	85514
3	7-8-65	85547
4	10-8-65	88904



SHEET 20 OF 24

35A-1
LINE CONTROLLER
FOR
BAI DATA SELECTIVE
CALLING SYSTEM

APPROVALS

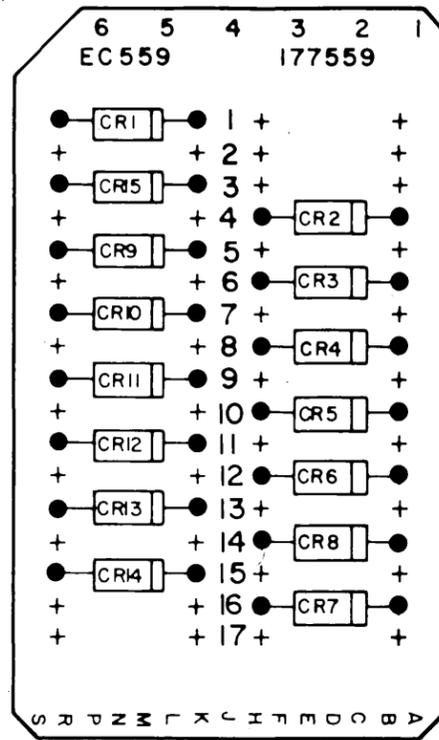
D AND R	E O P M
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E-NUMBER	
PROD. NO. 7150WD-B20	

DATE: 4-6-64
P.D. FILE NO. 43-A25AA
DRAWN. E. R. CHKD
ENGD. J. A. J. APPD.

**TELETYPE
CORPORATION**
7150WD-B20

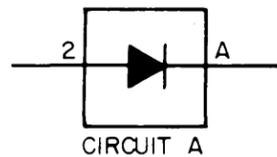
CPS - 9 DIODE CARD

TTY. NO. 177559



THIS CARD CONTAINS 15 GENERAL PURPOSE DIODES. EACH DIODE IS RATED AT 400V REVERSE VOLTAGE AND 300ma FORWARD CURRENT.

SYMBOL



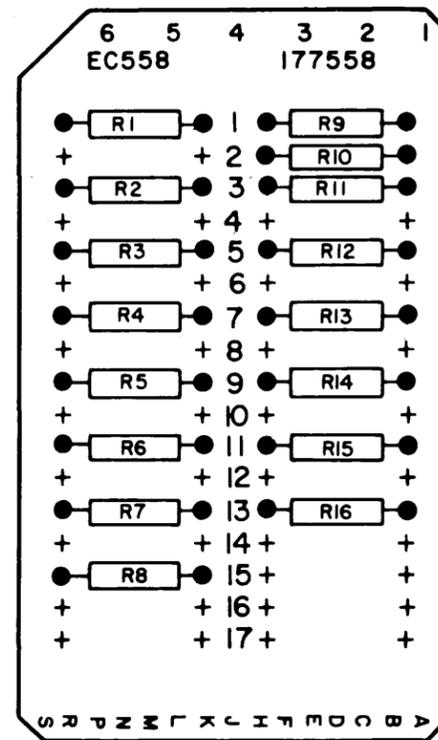
APPARATUS LIST

DIODES

DESIG.	DESCRIPTION	TTY. NO.
A - S	IN647	181654

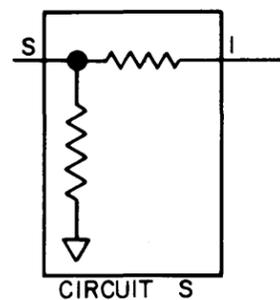
CPS - 10 VOLTAGE DIVIDER NETWORKS

TTY. NO. 177558



THIS CARD CONTAINS 8 VOLTAGE DIVIDER NETWORKS. THEY ARE INTENDED TO CONVERT 48 VOLT, 9 ma RELAY CONTACT SIGNALS TO 8 V, 1ma SIGNALS SUITABLE FOR USE IN THE ELECTRONIC CIRCUITS.

SYMBOL



APPARATUS LIST

RESISTORS

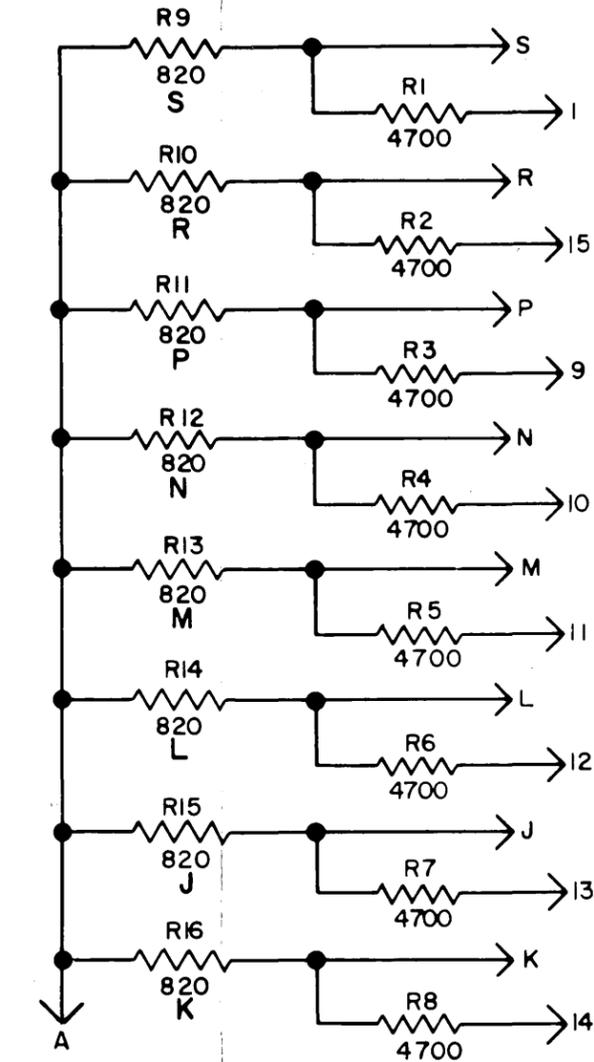
DESIG.	DESCRIPTION	TTY. NO.
R1 - R8	4700 OHMS 1 WATT	181203
R9 - R16	820 OHMS	137439

NOTE:
REVISION INFORMATION MUST ALSO BE REFLECTED ON THE ISSUE CONTROL RECORD.

7150WD-B21

REVISIONS

ISSUE	DATE	AUTH NO.
1	9-16-64	15790-R
2	10-8-65	88904



TERMINAL A IS NORMALLY GROUNDING

SHEET 21 OF 24

35A-1
LINE CONTROLLER
FOR
BAI DATA SELECTIVE
CALLING SYSTEM

APPROVALS

D AND R E OF M

E-NUMBER

PROD. NO. 7150WD-B21

DATE: 4-6-64

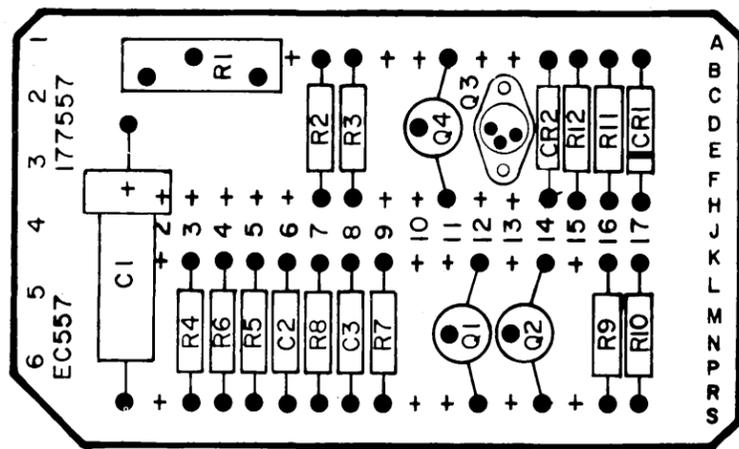
P.D. FILE NO. 43-A25AA

DRAWN. E. R. CHKD

ENGD. J. A. J. APPD.

TELETYPE
CORPORATION

7150WD-B21



TTY. NO. 177557

APPARATUS LIST

RESISTORS

DESIG.	DESCRIPTION	TTY. NO.
R1	500K OHMS VARIABLE	300022
R2	33,000 OHMS	118153
R3	470 OHMS	137602
R4	51 OHMS	143656
R5,6	6,800 OHMS	118147
R7,8	5,600 OHMS	118186
R9	1,000 OHMS	137440
R10	560 OHMS	143659
R11	1,200 OHMS	137441
R12	330 OHMS	143661

CAPACITORS

DESIG.	DESCRIPTION	TTY. NO.
C1	10 MFD, 25 V	137312
C2,3	.05 MFD	137306

DIODES

DESIG.	DESCRIPTION	TTY. NO.
CR1	1N482	181619

TRANSISTORS

DESIG.	DESCRIPTION	TTY. NO.
Q1,2	N33	177106
Q3	2N3213	193250
Q4	2N1671 (UNIUNCTION)	177610

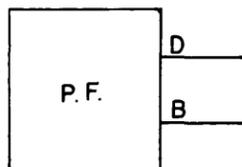
VARIATORS

DESIG.	DESCRIPTION	TTY. NO.
CR2	VARIATOR 100A	178844

ALPHA NUMERIC CONVERSION CHART

STAMPING ON CIRCUIT BOARD	NUMERICAL CONVERSION FOR 15 PT. CARDS WHEN USED WITH 36 PT. CONNECTOR	
	WHEN INSERTED IN UPPER HALF OF CONNECTOR	WHEN INSERTED IN LOWER HALF OF CONNECTOR
A	1	22
B	2	23
C	3	24
D	4	25
E	5	26
F	6	27
H	7	28
J	8	29
K	9	30
L	10	31
M	11	32
N	12	33
P	13	34
R	14	35
S	15	36

LOGIC SYMBOL



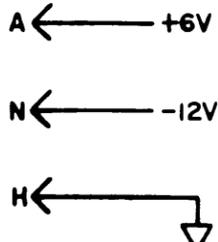
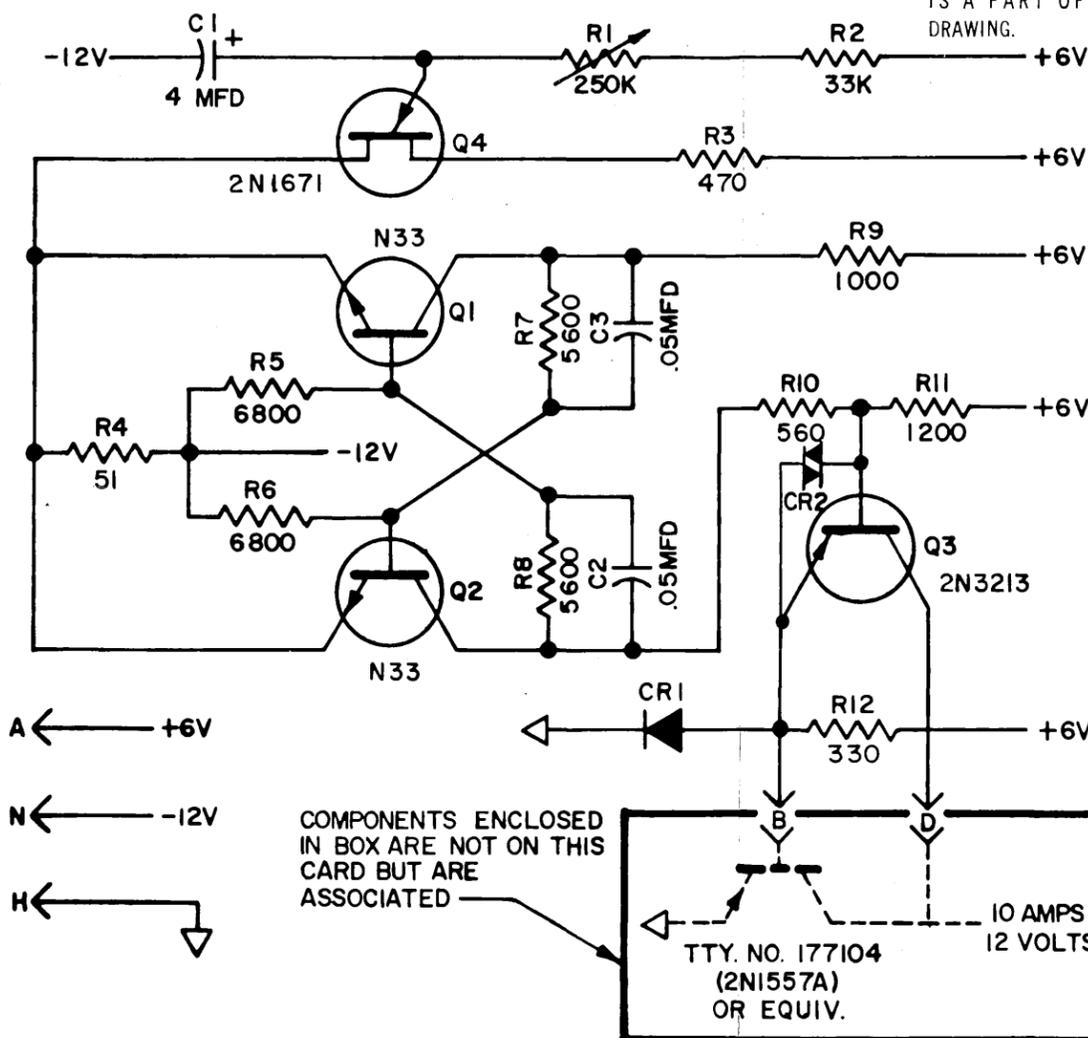
CPS-II HIGH CURRENT FLASHER

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

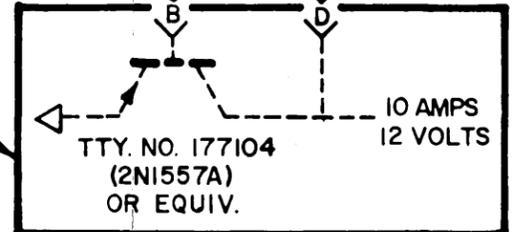
7150WD-B22

REVISIONS

ISSUE	DATE	AUTH. NO.
1	9-16-64	15790-R
2	10-27-64	83712
3	3-24-65	85514
4	10-8-65	88904
5	3-17-67	93090
6	9-30-69	99550-1



COMPONENTS ENCLOSED IN BOX ARE NOT ON THIS CARD BUT ARE ASSOCIATED



THIS POWER FLASHER CONSISTS OF A FREE RUNNING OSCILLATOR AND A FLIP-FLOP WITH AN OUTPUT AMPLIFIER. Q4 IS A UNIUNCTION OSCILLATOR THAT SUPPLIES OUTPUT PULSES THROUGH R4, THE COMMON EMITTER RESISTOR OF THE FLIP-FLOP. THE RATE OF OSCILLATION MAY BE ADJUSTED BY MEANS OF R1.

EACH INPUT PULSE TO THE COMMON EMITTER RESISTOR R4, WILL CAUSE THE FLIP-FLOP TO CHANGE STATE. WITH Q2 CONDUCTING, ITS COLLECTOR WILL BE APPROXIMATELY -10 VOLTS AND Q3 WILL ALSO BE IN CONDUCTION. Q3 CONDUCTING WILL THEN TURN ON THE ASSOCIATED POWER TRANSISTOR. WITH Q1 CONDUCTING, Q2 WILL BE CUT OFF AND ITS COLLECTOR WILL BE APPROXIMATELY +6 VOLTS. THIS VOLTAGE WILL CUT OFF Q3 AND THEREFORE THE ASSOCIATED POWER AMPLIFIER. OUTPUT ADJUSTABLE FROM APPROXIMATELY 55 TO 150 FLASHES PER MINUTE.

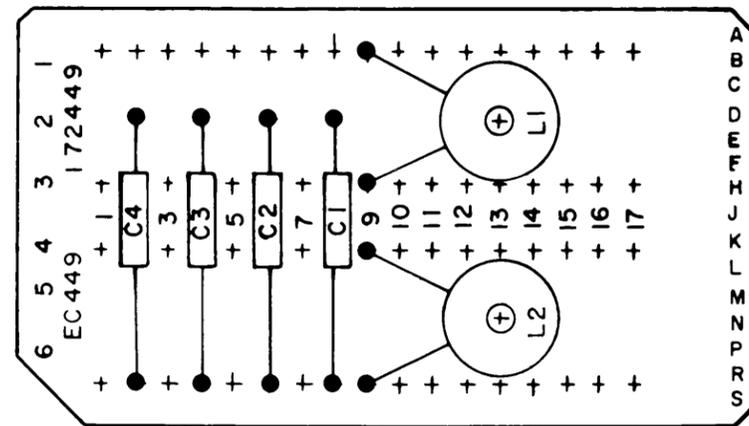
SEE ISSUE CONTROL RECORD FOR COMPLETE LIST OF SHEETS COMPRISING THIS W.D.
SHEET 22

35A-1
LINE CONTROLLER
FOR
BAI DATA SELECTIVE
CALLING SYSTEM

APPROVALS

D AND R	E OF M
E-NUMBER	
PROD. NO. 7150WD-B22	
DATE: 4 - 6 - 64	
P.D. FILE NO. 43-A25AA	
DRAWN H.D.S.	CHKD
ENGD. J.A.J.	APPD.

TELETYPE CORPORATION
7150WD-B22



TTY. NO. 172449

APPARATUS LIST

CAPACITORS

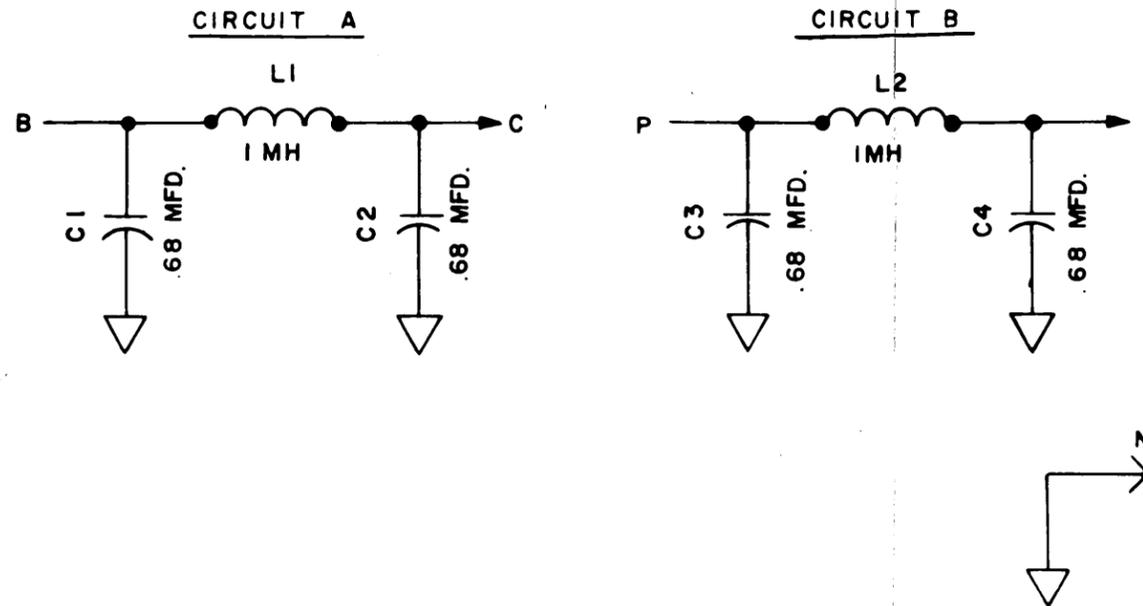
DESIG.	DESCRIPTION	TTY. NO.
C1 - C4	.68 MFD 200 VDC	171584

COIL

DESIG.	DESCRIPTION	TTY. NO.
L1, L2	1 MH 2 OHMS MAX.	171645

CPS - 12 FILTER

NOTE: REVISION INFORMATION MUST ALSO BE REFLECTED ON THE ISSUE CONTROL RECORD.



7150WD-B23

REVISIONS		
ISSUE	DATE	AUTH NO
1	9-16-64	15790-R
2	10-8-65	88904

SHEET 23 OF 24

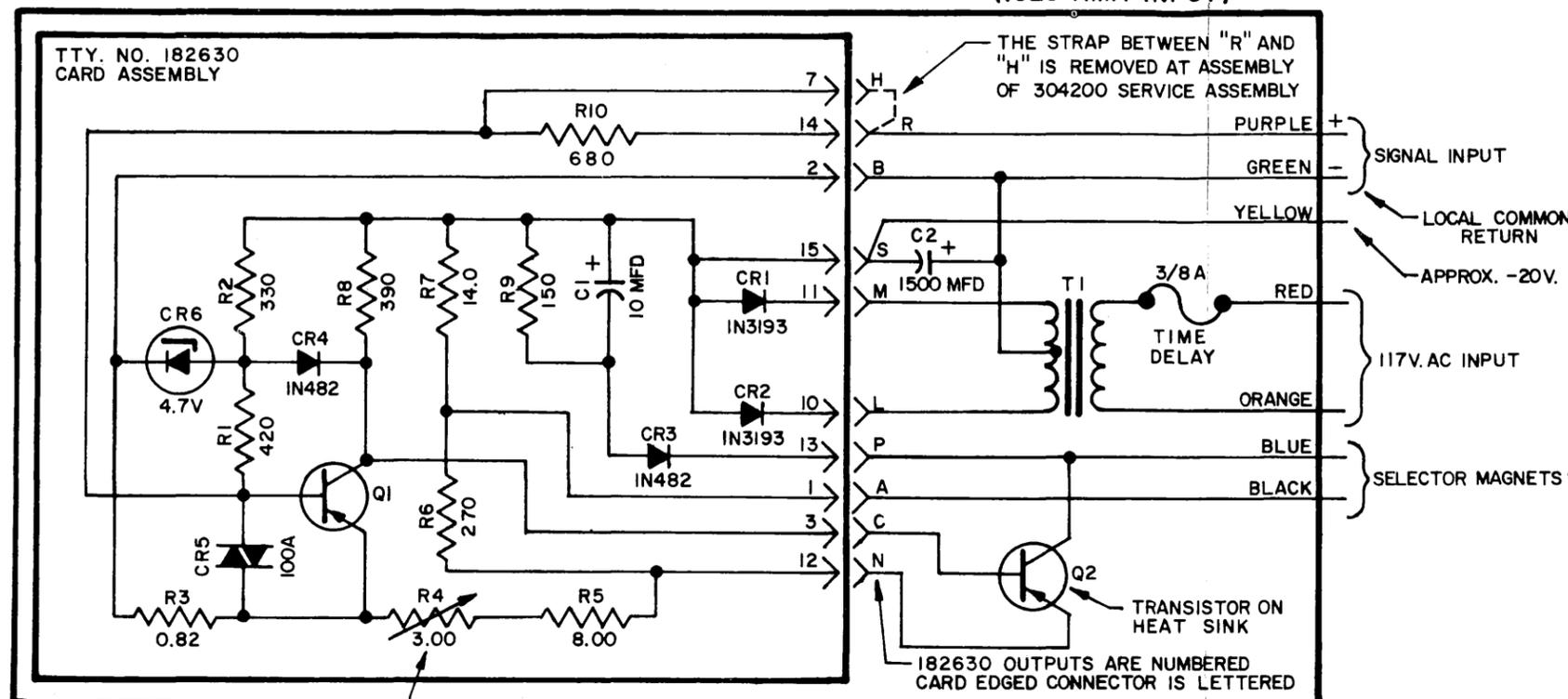
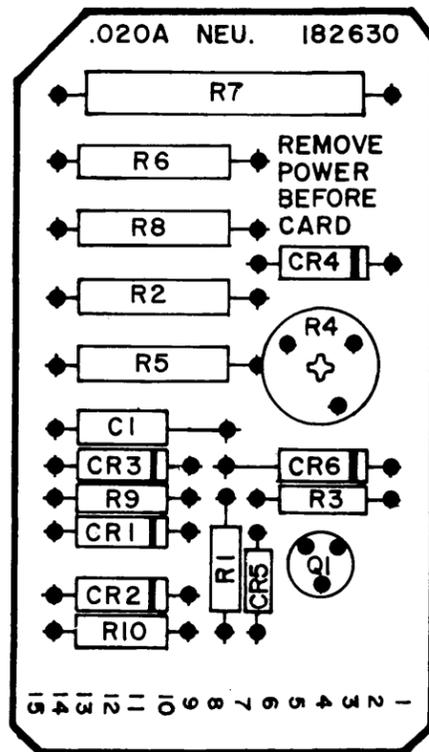
THIS CARD CONSISTS OF TWO PI FILTERS. THE FUNCTION OF THIS FILTER IS TO REJECT HIGH FREQUENCY NOISE. INPUTS ARE APPLIED AT POINTS B AND P, OUTPUTS AT POINTS C AND R.

35A-1 LINE CONTROLLER FOR BAI DATA SELECTIVE CALLING SYSTEM	
APPROVALS	
D AND R	E OF M
E-NUMBER	
PROD. NO. 7150WD - B23	
DATE:	4 - 6 - 64
P.D. FILE NO.	43 - A25AA
DRAWN L. J. F.	CHKD <i>[Signature]</i>
ENGD J. A. J.	APPD
TELETYPE CORPORATION	
7150WD-B23	

CPS-13 SELECTOR MAGNET DRIVER (.500 AMP. CONSTANT CURRENT OUTPUT) (.020 AMP. INPUT)

7150WD-B24

REVISIONS		
ISSUE	DATE	AUTH. NO.
1	9-16-64	15790-R
2	4-5-65	85534
3	10-8-65	88904
4	5-6-68	95524-1



THIS IS NOT A NORMAL MAINTENANCE ADJUSTMENT SEE CD

193485 ASSEMBLY

REFER TO CD FOR DESCRIPTION OF OPERATION

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

SEE ISSUE CONTROL RECORD FOR COMPLETE LIST OF SHEETS COMPRISING THIS W.D.
SHEET 24

APPARATUS LIST

RESISTORS

DESIG.	DESC.	TTY NO.
R1	420 OHM 1/2W	182779
R2	330 OHM 2.5W	181669
R3	.82 OHM 1/2W	182778
R4	3 OHM VAR. 5W	182773
R5	8 OHMS 2.5W	181717
R6	270 OHMS 4W	182770
R7	14 OHMS 10W	182772
R8	390 OHMS 4W	182627
R9	150 OHMS 1/2W	182776
R10	680 OHMS 1/2W	182777

DIODES

DESIG	DESC.	TTY NO.
CR1,2	IN3193	182520
CR3,4	IN482	181619
CR5	100A	178844
CR6	ZENER 4.7V 5% 3/4W	182774

CAPACITORS

DESIG.	DESC.	TTY NO.
C1	10MFD 25V DC	182628
C2	1,500MFD 30V DC	182501

TRANSISTORS

DESIG.	DESC.	TTY NO.
Q1	HIGH GAIN	181671
Q2	POWER	181675

TRANSFORMER

DESIG.	DESC.	TTY NO.
T1	POWER	330792 (SOME UNITS CONTAIN 195153 TRANSFORMER)

35A-1
LINE CONTROLLER
FOR
8AI DATA SELECTIVE
CALLING SYSTEM

APPROVALS

D AND R E OF M

E-NUMBER

PROD. NO. 7150WD-B24

DATE: 4-20-64

P.D. FILE NO. 43-A25AA

DRAWN: HDS CHKD

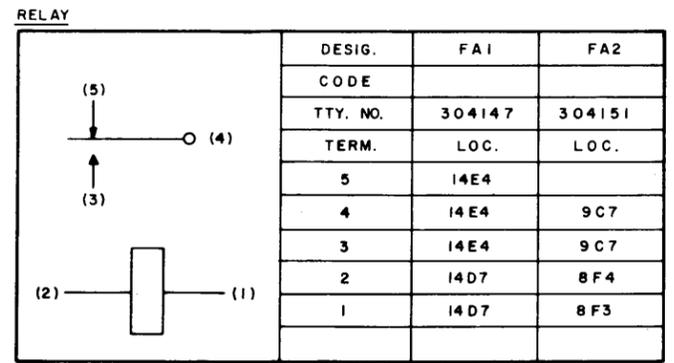
ENGD. JAJ APPD:

TELETYPE
CORPORATION

7150WD-B24

7150WD-C2

APP. FIG. 4



CARD, CIRCUIT
RELAY DRIVER
TTY. NO. 177581

APP. FIG. 6

REFER TO CPS 5 FOR SCHEMATIC

COMP. DESIG.	2126	2226	2127	2227	2128	2228
CIRCUIT	LOC.	LOC.	LOC.	LOC.	LOC.	LOC.
A	9C2	9F5	1B3	10B7	12B8	8E3
B	9D2	10B1	10F1	12B2	8D4	

CARD, CIRCUIT
EXCLUSIVE OR GATE
TTY. NO. 177549

APP. FIG. 8

REFER TO CPS 4 FOR SCHEMATIC

COMP. DESIG.	2311	2411
CIRCUIT	LOC.	LOC.
A	6D5	6D7
B	6D5	6D7
C	8D6	6D8

REVISIONS		
ISSUE	DATE	AUTH. NO.
1	9-16-64	15790-R
2	10-8-65	88904
3	8-23-66	88950

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

APP. FIG. 5

BUZZER

DESIG.	TTY. NO.	LOC.
BZ	304149	12C8

CARD, CIRCUIT
GATED OSCILLATOR

APP. FIG. 7

REFER TO CPS 6 FOR SCHEMATIC

COMP. DESIG.	2101	2118	2218	2119	2219	2318	2418	2323
TTY. NO.	177585	177587	177586	177588	177586	177585	177585	177585
LOC.	1C5	4C5	4D5	4E5	4F5	6D1	7D1	7F3
TIMING ADJUST*	13 MS	3 SEC.	1 SEC.	30 SEC.	1 SEC.	3 MS	3 MS	113 MS

* THIS TIMING INTERVAL IS FOR THE FIRST OSCILLATION AFTER THE INPUT TO THE CIRCUIT IS MADE -6V. SECONDARY OSCILLATIONS WILL HAVE TIMING INTERVALS APPROX. 30% LESS.

CARD, CIRCUIT
BIT OSCILLATOR

APP. FIG. 9

REFER TO CPS 8 FOR SCHEMATIC

COMP. DESIG.	2206	2423
LOC.	1D3	7E8

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

SHEET 2 OF 9

CARD, CIRCUIT
BIT OSCILLATOR CONTROL

APP. FIG. 10

REFER TO CPS 7 FOR SCHEMATIC

COMP.	2106
LOC.	1D3

35A-1
LINE CONTROLLER
FOR
8AI DATA SELECTIVE
CALLING SYSTEM

APPROVALS	
D AND R <i>HJK</i>	E OF M <i>C-1</i>
E-NUMBER	
PROD. NO. 7150WD-C2	
DATE 3-13-64	
P.D. FILE NO. 43-A25AA	
DRAWN L.J.F.	CHKD. <i>[Signature]</i>
ENGD. J.A.J.	APPD.

TELETYPE CORPORATION

7150WD-C2

7150WD-C3

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	9-15-64	15790-R
2	3-24-65	85514
3	10-8-65	88904
4	11-8-65	88910
5	8-23-66	88950

APP. FIG. 11

CARD, CIRCUIT
FLIP FLOP TTY NUMBER 303671 REFER TO CPS1 FOR SCHEMATIC

COMP. DESIG	Z102		Z103		Z104		Z105		Z112		Z113		Z114		Z115		Z116		Z120	
CIRCUIT	FCTN DESIG	LOC																		
A	R19	1E2	R16	1E4	R13	1E6	R10	1E8	OLD	1C5	EOT	2D8	AM	3B2	IR	3F3	CDCR	3F5	LBG	4B7
B	R18	1E2	R15	1E5	R12	1E7	CR	1C8	ACK	2F8	SOM	2C8	TM	3F2	GC	3B5	TL	3F6	FTI	4F7
C	R17	1E3	R14	1E5	R11	1E7	ILD	1C7	BEL	2E8	FE	2B8	PSS	3B3	CDCS	3B7	FDD	3F8	RTS	9D2

CARD, CIRCUIT
FLIP FLOP CONT

COMP. DESIG	Z121		Z312		Z313		Z314		Z315		Z319		Z320		Z321		Z325		Z326	
CIRCUIT	FCTN DESIG	LOC																		
A	MC1	5F3	R28	6E3	R25	6E5	R22	6E7	RIL	6C2	R38	7C2	R35	7C4	R32	7C6	OE	7C8	ACC	8B4
B	MC2	5F3	R27	6E4	R24	6E6	R21	6E8	CI	6C4	R37	7C2	R34	7C5	R31	7C7	TS	7F4	IT	8B5
C	MC3	5F4	R26	6E4	R23	6E6	R2L	6E2	R3L	7D4	R36	7C3	R33	7C5	R30	7C7	TA	8B2	TT	8B7

APP. FIG. 12

CARD, CIRCUIT
NOR GATES TTY NUMBER 303652 REFER TO CPS2 FOR SCHEMATIC

COMP. DESIG	Z109	Z111	Z117	Z122	Z124	Z316	Z322
CIRCUIT	LOC.						
A	1D1	2D6	4B4	4E3	9E1	6C5	7D6
B	1D2	2D6	4B4	1C4	9F4	6C7	7E7
C	2E3	2D6	4B4	5E2	9D1	7A1	7E7
D	2E3	2E6	4B5	5E4	10F1	7B1	7F4
E	2E3	2E6	4C2	5D4	12B1	7E3	8B5
F	2B5	3B3	4D2	5C5	3E2	7E7	8D3
H	2C5	3B5	4C3	4C6	2B7	7F7	6C4
J	3F7	3B8	4E2	4F2	2B7	7F5	4F2

APP. FIG. 13

CARD, CIRCUIT
NAND GATES TTY NUMBER 303653 REFER TO CPS3 FOR SCHEMATIC

COMP. DESIG.	Z108	Z110	Z123	Z125	Z317
CIRCUIT	LOC.	LOC.	LOC.	LOC.	LOC.
A	1C5	2D5	4D3	9E2	6A2
B	1B5	2D5	4D2	9E2	6B2
C	1F1	2D5	4B6	9F1	6B4
D	2E2	2A5	5D2	7F1	6D1
E	2F2	2B5	5D3	7F2	7D2
F	2F3	2E6	5C3	7F2	7D5
H	5C4	3C4	5C4	5F2	7E5
J	3C6	1C6	4F3	5D2	7F6

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

SHEET 3 OF 9

35A-1
LINE CONTROLLER
FOR
8AI DATA SELECTIVE
CALLING SYSTEM

APPROVALS

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

E-NUMBER
PROD. NO. 7150WD-C3
DATE 2-21-64
P.D. FILE NO. 43-A25AA
DRAWN HDS CHKD.
ENGD. JAJ APPD.

TELETYPE CORPORATION
7150WD-C3

APP. FIG. 14

CARD, CIRCUIT
DIODE
TTY. NO. 177559 REFER TO CPS 9 FOR SCHEMATIC

COMP. DESIG.	D1 LOC.	D2 LOC.	D3 LOC.	LOC.
S (CR1)	↑	↑		
A (CR2)			11 E 5	
H (CR3)			11 C 5	
F (CR4)			9 D 3	
E (CR5)		12 E 5	9 D 6	
D (CR6)			9 E 6	
B (CR7)			9 F 7	
C (CR8)	12 E 5		9 D 7	
P (CR9)			8 C 5	
N (CR10)				
M (CR11)		12 C 7		
L (CR12)		12 B 3		
J (CR13)		12 B 2		
K (CR14)		10 E 6		
R (CR15)	↓	10 B 8		

APP. FIG. 15

CARD, CIRCUIT
VOLTAGE DIVIDER NETWORK
TTY. NO. 177558

COMP. DESIG.	D4 CIRCUIT	LOC.
S	9 E 3	
R	9 F 3	
P	5 C 1	
N	3 B 1	
M	1 F 2	
L	4 F 3	
J		
K		

REFER TO CPS10 FOR SCHEMATIC

APP. FIG. 16

CARD, CIRCUIT
POWER FLASHER
TTY. NO. 177557

COMP. DESIG.	D6 LOC.
	12 F 1

REFER TO CPS11 FOR SCHEMATIC

APP. FIG. 17

CARD, CIRCUIT
VOLTAGE FILTER
TTY. NO. 172449

COMP. DESIG.	Z 2 0 1 CIRCUIT	LOC.
A		14 E 7
B		14 E 7

REFER TO CPS12 FOR SCHEMATIC

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

7150WD-C4

REVISIONS		
ISSUE	DATE	AUTH. NO.
1	9-17-64	15790-R
2	4-5-65	85534
3	10-8-65	88904
4	11-8-65	88910
5	8-23-66	88950

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

SHEET 4 OF 9

35A-1
LINE CONTROLLER
FOR
8AI DATA SELECTIVE
CALLING SYSTEM

APPROVALS

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

E-NUMBER

PROD. NO. 7150WD-C4

DATE 3-13-64

P.D. FILE NO. 43-A25.AA

DRAWN - J F CHKD. *[Signature]*

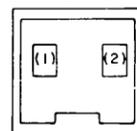
ENGD. J A J APPD.

TELETYPE CORPORATION

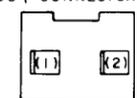
7150WD-C4

APP. FIG. 18

195863
RECEPTACLE
CONNECTOR



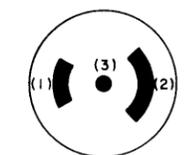
195862
PLUG, CONNECTOR



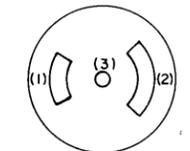
CONNECTOR

DESIG.	M C		C L L	
	PLUG	RECEPT.	PLUG	RECEPT.
TTY. NO.	195862	195863	195862	195863
TERM.	LOC.		LOC.	
1	14 C 3		14 F 7	
2	14 C 4			

114467
PLUG, CONNECTOR



114466
RECEPTACLE, CONNECTOR



APP. FIG. 19

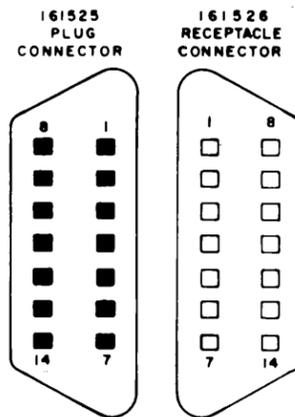
CONNECTOR

DESIG.	C E		L C		P S A	
	PLUG	RECEPT.	PLUG	RECEPT.	PLUG	RECEPT.
TTY. NO.	114467	114466	114467	114466	114467	114466
TERM.	LOC.	LOC.	LOC.	LOC.	LOC.	LOC.
1						
2	14 B 8	14 C 8	14 B 6	14 C 6	14 D 3	14 C 3
3						

NOTE: REVISION INFORMATION MUST ALSO BE REFLECTED ON THE ISSUE CONTROL RECORD.

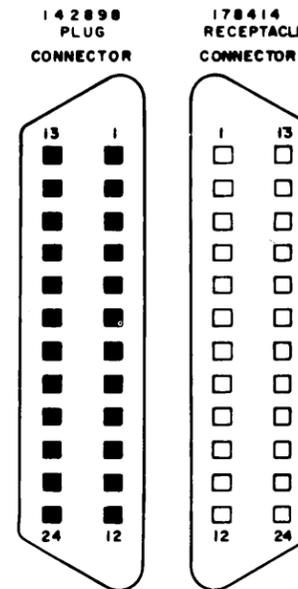
7150WD-C5

REVISIONS		
ISSUE	DATE	AUTH. NO.
1	9-17-64	15790-R
2	10-8-65	88904



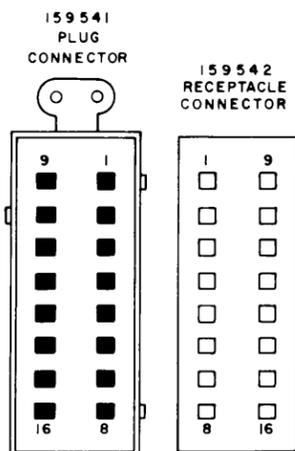
APP. FIG. 20

CONNECTOR		
DESIG.	DC	
	PLUG.	RECEPT.
TTY. NO.	161525	161526
TERM.	LOC.	
1	13B8	
2	13B8	
3	13C8	
4	13C8	
5	13D8	
6	13D8	
7	13E8	
8	13E8	
9	13E8	
10	13A8	
11	11B7	
12	11D7	
13	11D7	
14	11C7	



APP. FIG. 22

CONNECTOR		
DESIG.	CC	
	PLUG	RECEPT.
TTY. NO.	142898	178414
TERM.	LOC.	
1		
2	9B4	
3	9C4	
4	9F4	
5	14E5	
6	12C7	
7	12C7	
8	14D5	
9	12A6	
10	9F5	
11	1B2	
12	12A7	
13	12E2	
14	9E4	
15		
16	9D5	
17	9C4	
18	9D4	
19		
20		
21	14F4	
22		
23	14F4	
24		



APP. FIG. 21

CONNECTOR				
DESIG.	CJ		PSD	
	PLUG.	RECEPT.	PLUG	RECEPT.
TTY. NO.	159541	159542	159541	159542
TERM.	LOC.	LOC.	LOC.	
1			14E3	
2			14D3	
3			14E3	
4	9B6	9B6	14F3	
5	9C6		14D3	
6	8E5	8E5	14F3	
7	8D5	8D5	14F3	
8	8E5	8E5	14G3	
9	9C6	9C6		
10	9C6	9C6		
11				
12				
13				
14	9B6			
15	9D6	9D6		
16	8E5	8E5		

SHEET 5 OF 9

35A-1
LINE CONTROLLER
FOR
8AI DATA SELECTIVE
CALLING SYSTEM

APPROVALS

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

E-NUMBER

PROD. NO. 7150 WD - C5

DATE

P.D. FILE NO. 43 - A25 AA

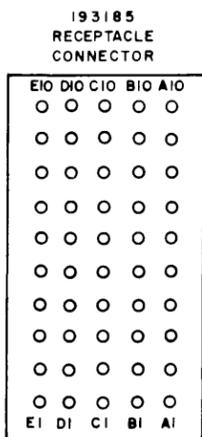
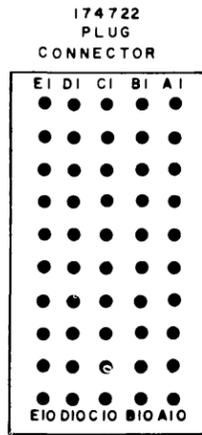
DRAWN L.J.F. CHKD. *[Signature]*

ENGD. J.A.J. APPD.

TELETYPE CORPORATION

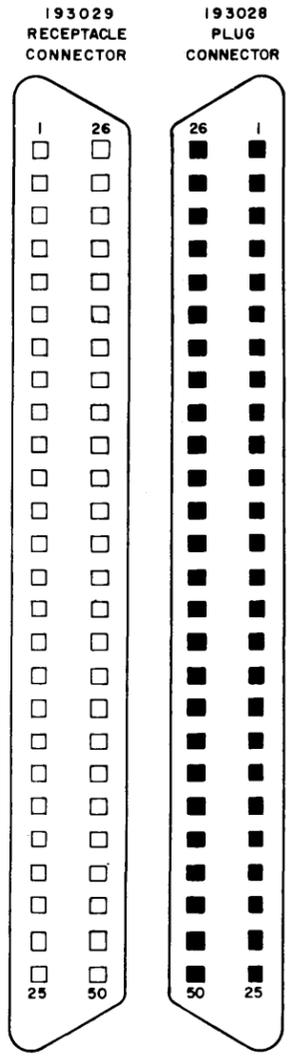
7150WD-C5

APP. FIG. 23



DESIG.	ø 1		ø 2	
	PLUG	RECEPT.	PLUG	RECEPT.
TTY. NO.	174722	193185	174722	193185
TERM.	LOC.		LOC.	
A1	9 F 4		12 E 5	
A2	9 D 4		12 E 5	
A3	12 A 7		12 E 5	
A4	12 B 6		12 E 5	
A5	9 B 4		12 E 5	
A6	9 C 4		12 E 5	
A7	9 D 6		12 E 5	
A8	9 C 7		12 E 5	
A9	11 B 6		12 E 5	
A10	11 D 5		12 E 5	
B1			12 E 5	
B2			12 E 5	
B3	9 C 4		12 E 5	
B4	12 E 2		12 E 5	
B5	12 C 7		12 E 5	
B6	13 A 7		12 E 5	
B7	13 B 7		12 E 5	
B8	13 B 7		12 E 5	
B9	13 C 7		12 E 5	
B10	13 C 7		12 E 5	
C1	13 D 7		12 E 5	
C2	13 D 7		12 E 5	
C3	13 E 7		12 E 5	
C4	13 E 7		12 E 5	
C5	13 F 1		12 E 5	
C6	13 E 7		10 E 8	
C7	13 F 1		10 E 8	
C8	8 D 4		10 E 8	
C9	9 E 4		10 E 8	
C10	9 F 5		10 E 8	
D1	1 B 3		10 E 8	
D2	8 E 4		10 E 8	
D3			10 E 8	
D4	9 B 7		10 E 8	
D5			10 E 8	
D6			10 E 8	
D7			10 E 8	
D8	14 F 5		10 F 8	
D9			10 F 8	
D10			10 F 8	
E1			10 F 8	
E2	14 F 5		10 F 8	
E3			10 F 8	
E4	14 E 5		10 F 8	
E5			10 F 8	
E6	14 D 8		10 F 8	
E7			10 F 8	
E8	14 E 5		10 F 8	
E9			10 F 8	
E10	14 E 5		10 F 8	

APP. FIG. 24



DESIG.	S1		S2		S3		S4		S5		S6	
	PLUG	RECEPT.										
TTY. NO.	193028	193029	193028	193029	193028	193029	193028	193029	193028	193029	193028	193029
TERM.	LOC.											
1	12 E 4		5 B 3		13 B 3		13 C 3		13 E 3		10 E 6	
2	12 E 4		5 B 3		13 B 3		13 C 3		13 E 3		12 E 3	
3	12 E 4		5 B 3		13 B 3		13 C 3		13 E 3		12 C 3	
4	12 E 4		5 B 3		13 B 3		13 C 3		13 E 3		5 B 4	
5	12 E 4		5 B 3		13 B 3		13 C 3		13 E 3		13 A 4	
6	12 E 4		5 B 3		13 B 3		13 C 3		13 E 3		13 B 4	
7	12 E 4		5 B 3		13 B 3		13 C 3		13 E 3		13 B 4	
8	12 E 4		5 B 3		13 B 3		13 C 3		13 E 3		13 C 4	
9	12 E 4		5 B 3		13 B 3		13 C 3		13 E 3		13 C 4	
10	12 E 4		5 B 3		13 B 3		13 C 3		13 E 3		13 E 4	
11	12 E 4		5 B 3		13 B 3		13 C 3		13 E 3			
12	12 E 4		5 B 3		13 B 3		13 C 3		13 E 3			
13	12 E 4		5 B 3		13 B 3		13 C 3		13 E 3			
14	12 E 4		5 B 3		13 B 3		13 C 3		13 E 3			
15	12 E 4		5 B 3		13 B 3		13 C 3		13 E 3			
16	12 E 4		5 B 3		13 B 3		13 C 3		13 E 3			
17	12 E 4		5 B 3		13 B 3		13 C 3		13 E 3			
18	12 E 4		5 B 3		13 B 3		13 C 3		13 E 3			
19	12 E 4		5 B 3		13 B 3		13 C 3		13 E 3			
20	12 E 4		5 B 3		13 B 3		13 C 3		13 E 3			
21	12 E 4		5 B 3		13 B 3		13 C 3		13 E 3			
22	12 E 4		5 B 3		13 B 3		13 C 3		13 E 3			
23	12 E 4		5 B 3		13 B 3		13 C 3		13 E 3			
24	12 E 4		5 B 3		13 B 3		13 C 3		13 E 3			
25	12 E 4		5 B 3		13 B 3		13 C 3		13 E 3			
26	10 E 7		12 C 4		13 B 3		13 B 3		13 C 3		10 D 6	
27	10 E 7		12 C 4		13 B 3		13 B 3		13 C 3		10 D 5	
28	10 E 7		12 C 4		13 B 3		13 B 3		13 C 3		10 D 6	
29	10 E 7		12 C 4		13 B 3		13 B 3		13 C 3		10 E 6	
30	10 E 7		12 C 4		13 B 3		13 B 3		13 C 3		9 B 2	
31	10 E 7		12 C 4		13 B 3		13 B 3		13 C 3		9 B 2	
32	10 E 7		12 C 4		13 B 3		13 B 3		13 C 3		9 B 1	
33	10 E 7		12 C 4		13 B 3		13 B 3		13 C 3			
34	10 E 7		12 C 4		13 B 3		13 B 3		13 C 3			
35	10 E 7		12 C 4		13 B 3		13 B 3		13 C 3			
36	10 E 7		12 C 4		13 B 3		13 B 3		13 C 3		9 F 3	
37	10 E 7		12 C 4		13 B 3		13 B 3		13 C 3		9 F 4	
38	10 E 7		12 C 4		13 B 3		13 B 3		13 C 3		9 B 3	
39	10 F 7		12 C 4		13 B 3		13 B 3		13 C 3		9 B 3	
40	10 F 7		12 C 4		13 B 3		13 B 3		13 C 3			
41	10 F 7		12 C 4		13 B 3		13 B 3		13 C 3			
42	10 F 7		12 C 4		13 B 3		13 B 3		13 C 3			
43	10 F 7		12 C 4		13 B 3		13 B 3		13 C 3			
44	10 F 7		12 C 4		13 B 3		13 B 3		13 C 3			
45	10 F 7		12 C 4		13 B 3		13 B 3		13 C 3		10 C 7	
46	10 F 7		12 C 4		13 B 3		13 B 3		13 C 3		10 C 7	
47	10 F 7		12 C 4		13 B 3		13 B 3		13 C 3		10 D 7	
48	10 F 7		12 C 4		13 B 3		13 B 3		13 C 3			
49	10 F 7		12 C 4		13 B 3		13 B 3		13 C 3		10 F 5	
50	10 F 7		12 C 4		13 B 3		13 B 3		13 C 3		10 F 5	

7150WD-C6

REVISIONS		
ISSUE	DATE	AUTH. NO.
1	9-17-64	15790-R
2	10-8-65	88904

NOTE: REVISION INFORMATION MUST ALSO BE REFLECTED ON THE ISSUE CONTROL RECORD.

SHEET 6 OF 9

35A-1
LINE CONTROLLER
FOR
BAI DATA SELECTIVE
CALLING SYSTEM

APPROVALS

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

E-NUMBER

PROD. NO. 7150WD - C6

DATE 3-17-64

P.D. FILE NO. 43-A25 AA

DRAWN L.J.F. CHKD. *[Signature]*

ENGD. J.A.J. APPD. *[Signature]*

TELETYPE CORPORATION

7150WD-C6

7150WD-C 7

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	9-17-64	15790-R
2	4-5-65	85534
3	8-18-65	87498
4	10-8-65	88904
5	8-24-66	88949

APP. FIG. 25

CORD, POWER	
TTY NO.	LOCATION
182510	14C1

APP. FIG. 26

DIODE - 181654 (1N647)	
DESIG.	LOCATION
CR1	9B8
CR2	9D8
CR3	9E8
CR4	9E6
CR5	10A6
CR6	10E4
CR7	10C3
CR8	10E3
CR9	11B3
CR10	11B3
CR11	11C3
CR12	11D3
CR13	11E3
CR14	11F3
CR15	12B7
CR16	12A5
CR19	10D5

APP. FIG. 27

FUSES (FUSE HOLDER, 116783)				
DESIG.	VALUE	TYPE	LOCATION	TTY NO.
F1	7A	TIME DLY.	14C3	304104
F2	2A	TIME DLY.	14E3	142709
F3	3A	FAST	14D3	171658
F4	1A	FAST	14E3	115358
F5	1A	FAST	14E3	115358
F6	1A	TIME DLY.	14G3	143306
F7	5A	TIME DLY.	14F3	129920
F8	FUTURE	CKT. USE	14B2	
F9	3/8A	TIME DLY.	14B4	182611
F10	2A	TIME DLY.	14B5	142709
F11	4A	TIME DLY.	14B8	129919

APP. FIG. 28

LAMPS			
DESIG.	LOCATION	TYPE	TTY NO.
COPYLIGHT	14F7	55	192139
BREAK	1B2	1768	ALL ARE 198019
STOP	9D4		
INCPT OFF	9D5		
ACO	12D7		
MTC	12E1		
SKIP	ALL		
1	AT		
THRU	12E8		
25			

APP. FIG. 29

POWER SUPPLY, D.C.	
TTY NO.	LOCATION
304102	14E2

APP. FIG. 30

PROGRAM PANEL, TRANSMITTER
START CODE

DESIG.	PP
TTY. NO.	304199
TERMINAL	LOCATION
A-1 THRU A-26	13B2
B-1 THRU B-26	
C-1 THRU C-26	
D-1 THRU D-26	
E-1 THRU E-26	
F-1 THRU F-26	582
G-1 THRU G-26	

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

SHEET 7 OF 9

APP. FIG. 31
(SEE NOTE 103)

NETWORK		
DESIG.	LOCATION	TTY NO.
P	9A2	153631
POLL SS	10D5	165027
DC	10B3	153631
AST	10F3	153631
AC	12D8	165027
DISTR. CLUTCH	11D8	165027

APP. FIG. 32

RESISTOR			
DESIG.	LOCATION	VALUE	TTY NO.
R1	8E4	360	304152
R2	11D6	100	171521
R3	13F4	2250	171536
R4	13E2	4700	118203

35A-1
LINE CONTROLLER
FOR
BAI DATA SELECTIVE
CALLING SYSTEM

APPROVALS

D AND R E OF M
[Signatures]

E-NUMBER
PROD. NO. 7150WD-C7

DATE 3-31-64

P.D. FILE NO. 43-A25AA

DRAWN E R CHKD. *[Signature]*

ENGD. P P P APPD. *[Signature]*

TELETYPE
CORPORATION

7150WD-C7

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

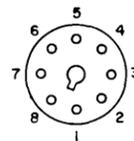
7150WD-C8

REVISIONS		
ISSUE	DATE	AUTH. NO.
1	9-17-64	15790-R
2	10-8-65	88904
3	8-23-66	88950

APP. FIG. 33

SELECTOR MAGNET DRIVER	
DESIG.	SMD
TTY NO.	193485
TERMINAL	LOCATION
(1) R	14B4
(2) O	14B5
(3) BL	8F5
(4) BK	8F5
(5) Y	8F4
(6) P	8F5
(7) G	8F4

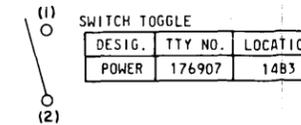
REFER TO CPS-13 AND CD



APP. FIG. 34

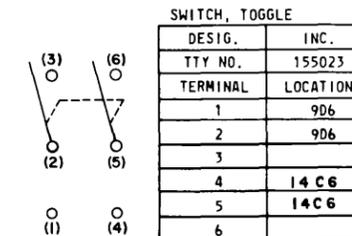
SOCKET	
DESIG.	RR
TTY NO.	172781
TERMINAL	LOCATION
1	13E4
2	13F2
3	13F4
4	1F3
5	
6	1F3
7	
8	13E2

APP. FIG. 35



SWITCH TOGGLE		
DESIG.	TTY NO.	LOCATION
POWER	176907	14B3

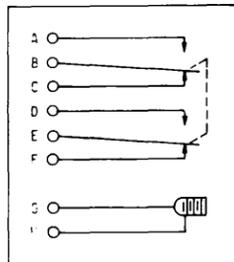
APP. FIG. 36



SWITCH, TOGGLE	
DESIG.	INC.
TTY NO.	155023
TERMINAL	LOCATION
1	9D6
2	9D6
3	
4	14C6
5	14C6
6	

APP. FIG. 37

SWITCH, LEVER (W/LAMP SOCKET)
193241 LOCKING
304146 NON-LOCKING



DESIGN.	LOCATION OF TERMINAL								TTY NUMBER
	A	B	C	D	E	F	G	H	
STOP	9C4	9C4	9C4		9E4	9E4	9D4	9D4	193241
ACO		12C7	12C7	12D8	12D8		12D7	12D7	193241
RESET		12A6	12A6						304146
BREAK	9F5	9F5			9B4	9B4	1B2	1B2	304146
MTC		12A6	12A6				12E1	12E1	304146
START	9C4	9C4		9E4	9E4				304146
INCP. OFF							9D5	9D5	304146
S K I P	1								
	2								
	3								
	4	ALL			ALL		ALL		ALL
	5	AT			AT		AT		ARE
	6	10E8			12F7		12E8		193241
	7								
	8								
	9								
	10								
	11								
	12								
	13								
	14								
	15								
	16	ALL							
	17	AT							
	18	10F8							
	19								
	20								
	21								
	22								
	23								
	24								
	25								

APP. FIG. 38

DESIG. - POLL SS		ARC 1	ARC 2	ARC 3	ARC 4	ARC 5	ARC 6	ARC 7	ARC 8	ARC 9	ARC 10
PART OF 304126 ASSEMBLY		BDG	BDG	NBG							
REFER TO 304126 AND 7151WD	POS.										
INT. CONTACTS*	COIL*										
(5) O(3) O(1)	(1)										
O(4) O(2)	(2)										
LOCATION											
COIL	10D5										
CONT.	10E6										
1-2											
CONT.	9B2										
3-4-5											
O.N. CONTACTS*											
(6) O(4) (3) O(1)	O(2)										
O(5)											
LOCATION											
CONT.	10C7	10E7	12E3	12C3	5B3	13A4	13B4	13B4	13C4	13C4	13E4
1-2-3											
CONT.	10F5										
5-6											
*CONTACTS AND COIL ARE NUMBERED FROM THE FRAME OUTWARD											

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

SHEET 8 OF 9

35A-1	
LINE CONTROLLER FOR 8AI DATA SELECTIVE CALLING SYSTEM	
APPROVALS	
D AND R	E OF M
E-NUMBER	
PROD. NO. 7150WD-C8	
DATE 3-30-64	
P.D. FILE NO. 43-A25AA	
DRAWN	CHKD.
ENGD. J. A. J.	APPD.
TELETYPE CORPORATION	
7150WD-C8	

7150WD-C9

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	9-17-64	15790-R
2	1-7-65	84192
3	3-16-65	85517
4	10-6-65	88896
5	10-8-65	88904
6	3-8-66	88931
7	5-10-66	88933
8	8-8-66	88896-2
9	8-9-66	88926
10	8-24-66	88949

APP. FIG. 39

DESIG TF
TERMINAL BOARD - WIRING FIELD - 198208

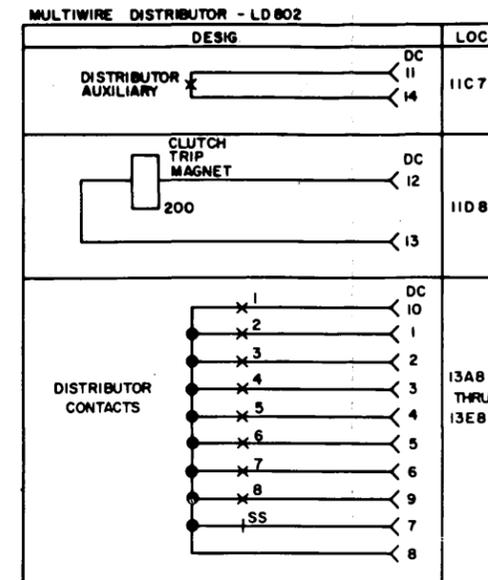
	A	B	C	D	E	F	G	H	J	K	L	M	N
1	13A7	13D7	14D6	14D5	12B6	9E4	8F5	14F4	9C7		14F3	14C2	
2	13B7	13D7	11D7		9B4	9F5	9B7	14F4	9D6	14D4	14G3	14C3	14C3
3	13B7	13E7	13F1	9F4	9C4	1B3	8D5	8F5	8F4	14E3	14G6	14C3	14C4
4	13C7	13E7	13F1	13F5		9D6	14D8	8F5	11D6	14D3		14C6	14C4
5	13C7	13E7	12C8	12A7	12E2	9D4	14E5	8E5		14E3	14B3		14C2
6	11B6	14E5		12C7	9C4	14F5	9C7		14F3	14B3			

APP. FIG. 41

TURRET

DESIG	AA
TTY NO.	165008
TERMINAL	LOCATION
A	
B	
C	
D	11D6
E	13F4
F	8E5
G	
H	
I	
J	11D6
K	13F4
L	8E3

APP. FIG. 44

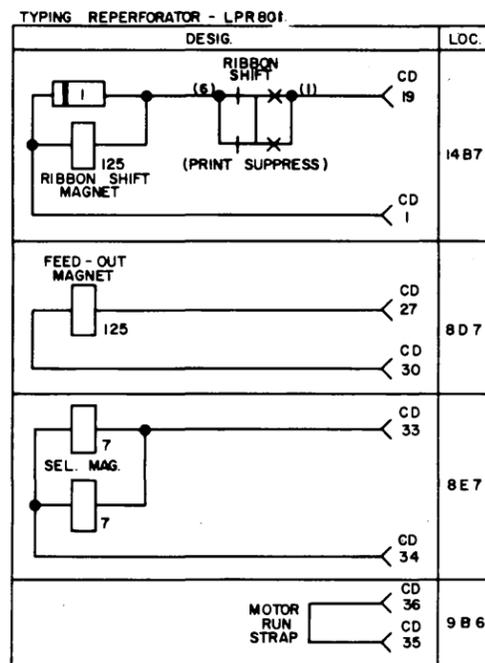


APP. FIG. 40

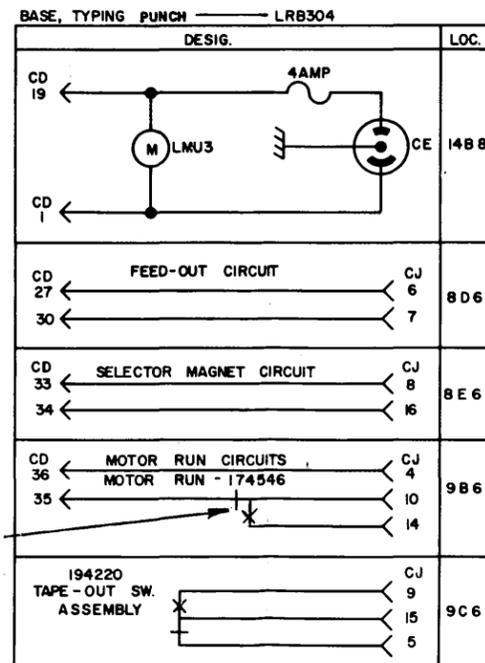
TERMINAL BOARD - 151415

DESIG	TA	SIGNAL LINE
TERMINAL	LOCATION	LOCATION
1	14C2	13F2
2	14C2	
3	14C2	13F2
4		

APP. FIG. 42

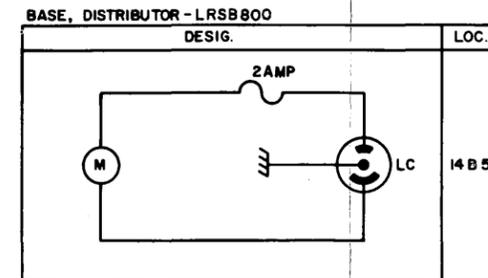


APP. FIG. 43



CONTACTS SHOWN WITH MOTOR RUNNING

APP. FIG. 45



APP. FIG. 46

DIODE - 177108 (D-4)

DESIG	LOCATION
CR17	7C3
CR18	7C3

APP. FIG. 47

DIODE ZENER - 311765

DESIG	LOCATION
CR20	10D5

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

SHEET 9 OF 9

35A-1
LINE CONTROLLER
FOR
BAI DATA SELECTIVE
CALLING SYSTEM

APPROVALS

D AND R	E OF M
E-NUMBER	
PROD. NO. 7150WD-C9	
DATE 4-1-64	
P.D. FILE NO. 43-A25 AA	
DRAWN E. R.	CHKD.
ENGD. P. P. P.	APPD.

TELETYPE CORPORATION
7150WD-C9

7150WD-D1

REVISIONS

ISSUE	DATE	AUTH. NO.
1	9-17-64	15790-R
2	11-18-64	83731
3	1-7-65	84192
4	3-16-65	85517
5	8-18-65	87498
6	10-6-65	88896
7	10-8-65	88904
8	5-10-66	88933
9	8-8-66	88896-2
10	8-23-66	88950

CIRCUIT NOTES:

101.

DESIG.	FUSE AMP.	POTENTIAL	ONE PER	TERM. DESIG.
F1	7	117V AC	SERVICE ASSEMBLY	TF-M2
F2	2	-48V DC	SERVICE ASSEMBLY	FA1-4
F3	3	-12V DC	SERVICE ASSEMBLY	TF-G4
F4	1	-6V DC	SERVICE ASSEMBLY	TF-G5
F5	1	+6V DC	SERVICE ASSEMBLY	TF-G6
F6	1	6.3V AC	SERVICE ASSEMBLY	TF-L3
F7	5	-5.7V (RMS)	SERVICE ASSEMBLY	TF-H1
F8	FUTURE	CIRCUIT USE	SERVICE ASSEMBLY	TF-L5 TF-L6
F9	3/8	117V AC	SELECTOR MAGNET DRIVER	
F10	2	117V AC	DISTRIBUTOR BASE	
F11	4	117V AC	REPERFORATOR BASE	

COMMERCIAL PRIMARY POWER
115V ± 10% @ 60~

CABINET POWER SUPPLY (MEASURED AT TF TERM. BOARD)

BATTERY SYMBOL	MIN.	MAX.
-48V (DC)	-53V	-43V
-12V (DC)	-12.6V	-11.4V
-6V (DC)	-6.3V	-5.7V
+6V (DC)	5.7V	6.3V
-5.7V (RMS)	-6.8V	-4.5V
6.3V AC	5.0V	7.0V

103.

NETWORK VALUE			
NETWORK		RESISTANCE	CAPACITANCE
NO.	CODE	IN OHMS	IN μF
1	153631	470	0.11
2	165027	120	0.35

EQUIPMENT NOTES:

201.

UNIT	BELL SYSTEM CODE	TELETYPE CORP.	FEATURE
LINE CONTROLLER SET	35A	VSL307	
CABINET W/ SERVICE ASSEMBLY		VCL341	
REPERF. W/ BASE & MOTOR		VCL342	
DIST. W/BASE & MOTOR		VCL343	
CABINET		LAC303	
DIST. BASE WITH MOTOR		LRSB800	
REPERF. BASE		LRB304	
REPERF.	35A	LPR801/DRC	
DISTRIB.		LD802	
MOTOR UNIT	28A	LMU3	REPERF.

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

202.

REFER TO BSP FOR LUBRICATION AND ADJUSTMENT OF STEPPING SWITCH
BSP B458.01 MAINTENANCE OF A.E. STEPPING SWITCHES
BSP B505.120 PARTS FOR A.E. STEPPING SWITCHES

203.

LOGIC CIRCUIT SYMBOLS AND TITLES OF CIRCUITS NEED NOT CONFORM TO THOSE APPEARING ON TTY. ASSEMBLY DRAWING OF CIRCUITS. SYMBOLS AND TITLES USED HEREIN APPLY TO THEIR APPLICATION RATHER THAN THEIR GENERAL FUNCTION.

102.

FEATURE OR OPTION	PROVIDE		
	APP. FIG.	APP. OR WIR.	QUANTITY

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

SHEET 1 OF 8

35A-1
LINE CONTROLLER
FOR
8AI DATA SELECTIVE
CALLING SYSTEM

APPROVALS

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

E-NUMBER

PROD. NO. 7150WD-D1

DATE 3-26-64

P.D. FILE NO. 43-A25AA

DRAWN E. R. CHKD. *[Signature]*

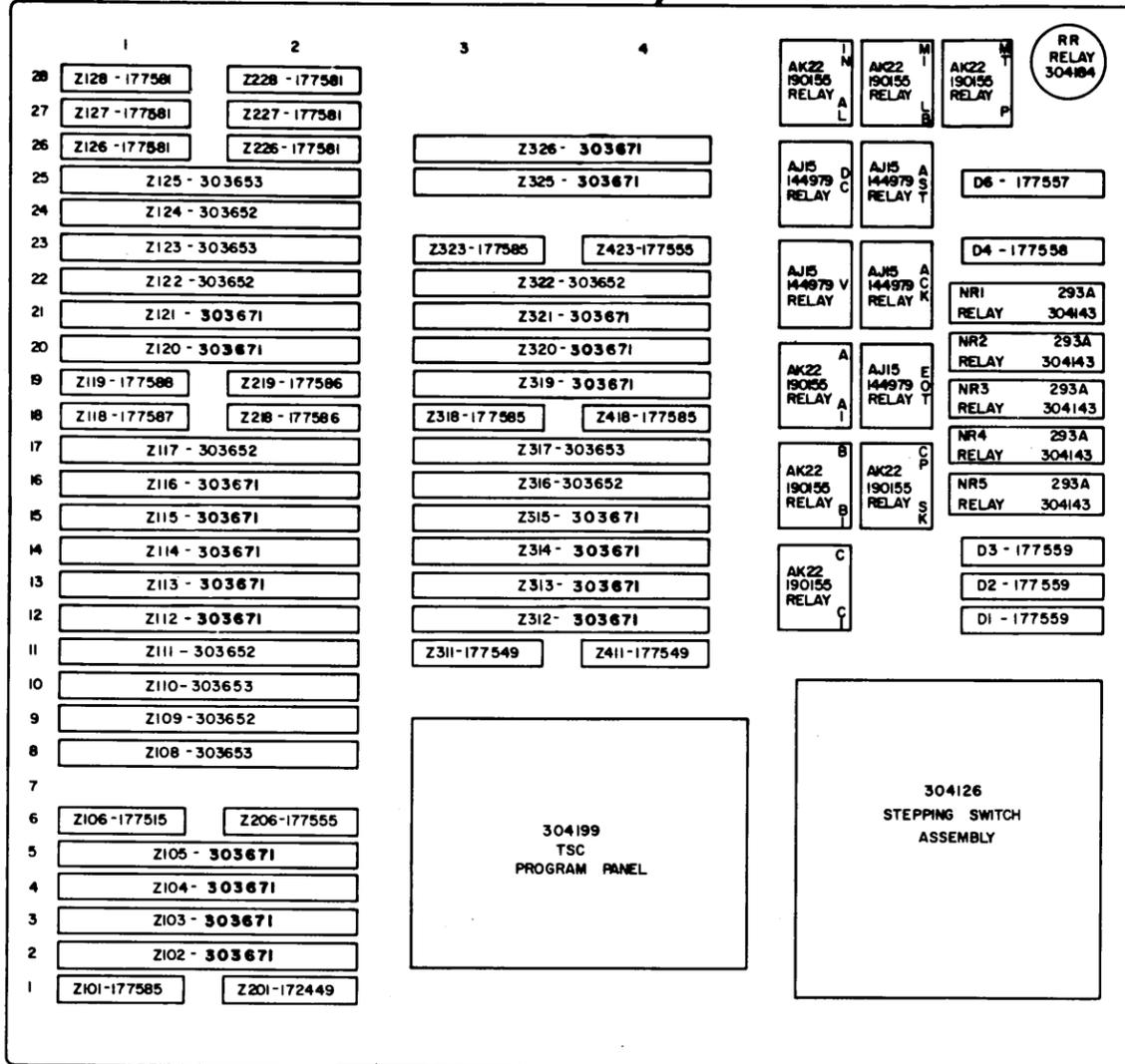
ENGD. P.P.P./J.A.J. APPD.

TELETYPE CORPORATION

7150WD-D1

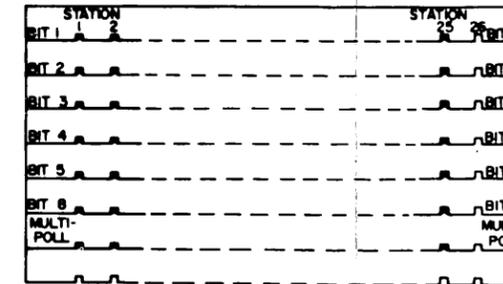
300. INFORMATION NOTES:

301. CIRCUITS CARDS AND RELAY LOCATIONS



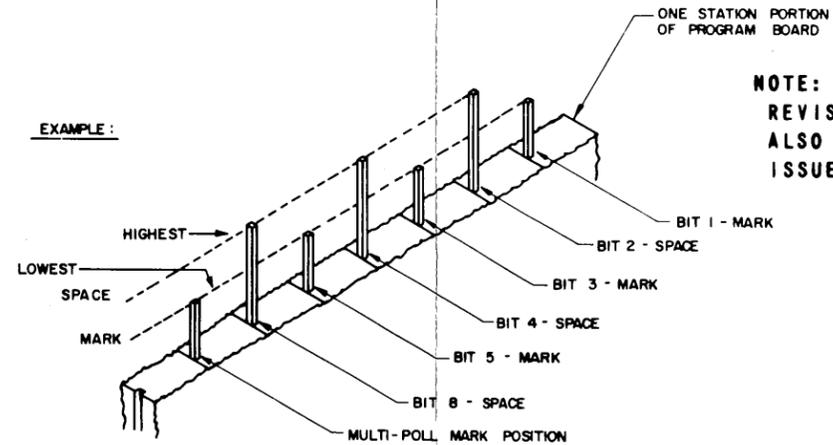
Z AND D COMPONENTS ARE CIRCUIT CARDS
ALL PRINTED CIRCUIT CARDS ARE POSITIONED
SO THAT COMPONENTS FACE TOP OF MODULE.

302. TSC PROGRAM BOARD PROGRAMMING



TO PROGRAM THE 2ND CHARACTER OF THE TRANSMITTER START CODES
PROCEED AS FOLLOWS:

1. SELECT THE STATION POSITION AND THE CHARACTER TO BE PROGRAMMED
2. FOR BITS 1 THRU 5 (DISREGARD 6,7 AND 8 FOR THE MOMENT);
A. FOR EACH BIT TO BE MARKING, PUSH THE BIT PIN TO ITS LOWEST POSITION
B. FOR EACH BIT TO BE SPACING, PULL THE BIT PIN TO ITS HIGHEST POSITION
3. BITS 6 AND 7 ARE PREWIRED WITH BIT 6 ALWAYS SPACING AND BIT 7 ALWAYS MARKING. THEY ARE NOT ON THE PROGRAM BOARD.
4. PUSH OR PULL THE BIT 8 PIN TO MAKE THE NUMBER OF MARKING BITS PER CHARACTER EVEN, REMEMBERING BIT 7 IS ALWAYS MARKING
5. MULTIPLE POLL PINS SHALL BE IN THEIR HIGHEST POSITION UNLESS THE STATION IS TO BE MULTIPLE POLLED. TO MULTIPLE POLL THE STATION THE PIN SHOULD BE IN ITS LOWEST POSITION.



A STATION POSITION IS TO BE CODED WITH THE CHARACTER "U". BIT PINS 1, 3 AND 5 ARE PUSHED TO THEIR LOWEST POSITION FOR MARKING. BIT PINS 2 AND 4 ARE PULLED TO THEIR HIGHEST POSITION FOR SPACING SINCE BITS 1,3,4 AND 7 TOTAL TO AN EVEN NUMBER. BIT PIN 8 IS PULLED TO ITS HIGHEST POSITION FOR SPACING. MULTI-POLL PIN IS PUSHED TO ITS LOWEST POSITION. SINCE MULTI-POLLING ON THIS STATION IS DESIRED.

7150WD-D2

REVISIONS		
ISSUE	DATE	AUTH NO
1	9-17-64	15790-R
2	3-24-65	85514
3	8-20-65	85514-1
4	10-8-65	88904

NOTE:
REVISION INFORMATION MUST
ALSO BE REFLECTED ON THE
ISSUE CONTROL RECORD.

SHEET 2 OF 8

35A-1
LINE CONTROLLER
FOR
BAI DATA SELECTIVE
CALLING SYSTEM

APPROVALS	
D AND R <i>[Signature]</i>	E OF M <i>[Signature]</i>
E-NUMBER	
PROD. NO. 7150WD-D2	
DATE 3-30-64	
P.D. FILE NO. 43-A25AA	
DRAWN E. R.	CHKD. <i>[Signature]</i>
ENGD. PPP	APPD.

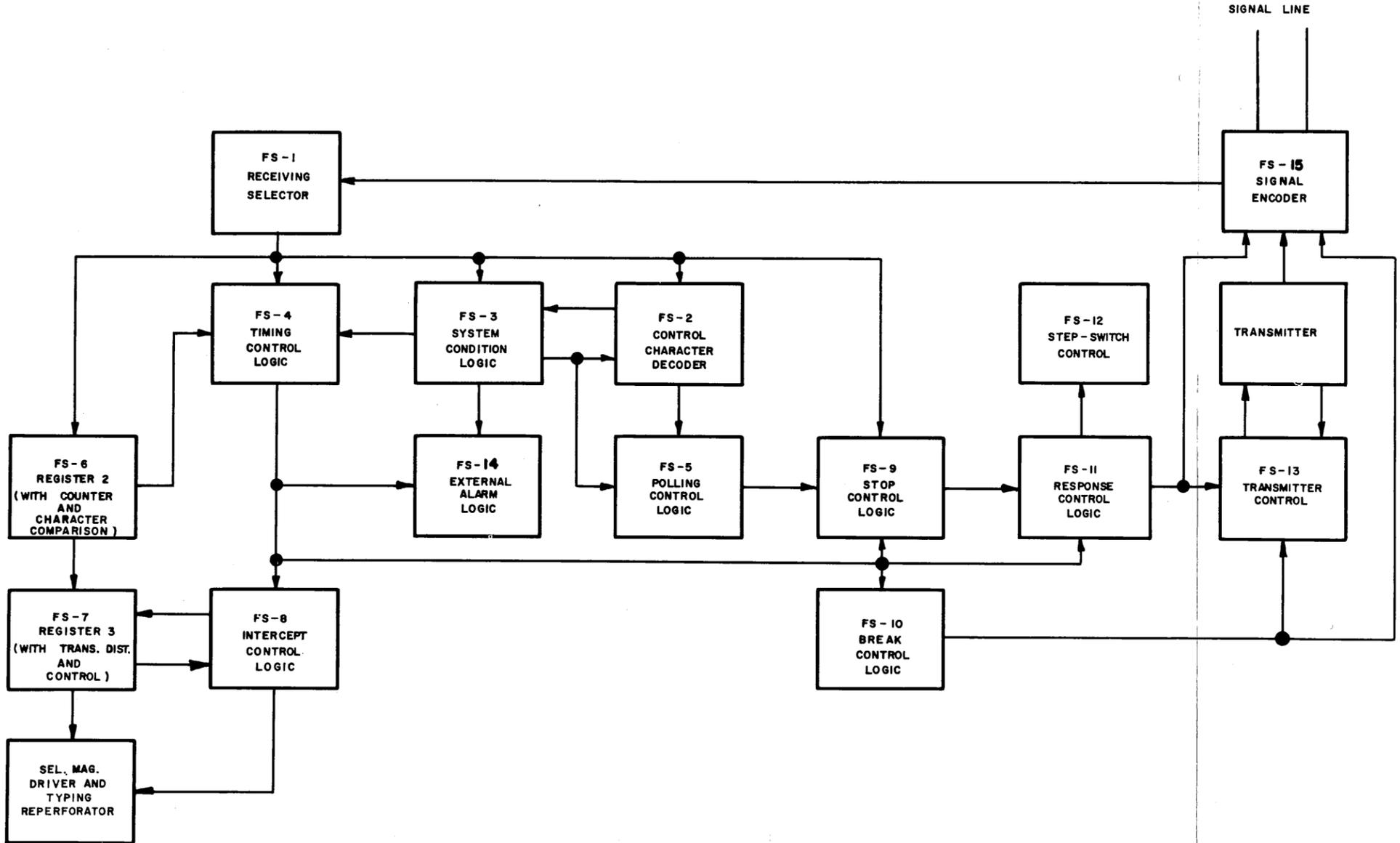
TELETYPE
CORPORATION
7150WD-D2

NOTE: REVISION INFORMATION MUST ALSO BE REFLECTED ON THE ISSUE CONTROL RECORD.

7150WD-D3

ISSUE	DATE	AUTH. NO.
1	9-17-64	15790-R
2	7-8-65	85547
3	10-8-65	88904

303. BLOCK DIAGRAM
LINE CONTROLLER



ONLY MAJOR LOGIC PATHS ARE SHOWN.

ET:08147
TC255(6-54)

SHEET 3 OF 8

35A-1
LINE CONTROLLER
FOR
8AI DATA SELECTIVE
CALLING SYSTEM

APPROVALS

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

E-NUMBER

PROD. NO. 7150WD - D3

DATE: 3-31-64

P.D. FILE NO. 43 - A25AA

DRAWN	E.R.	CHKD	<i>[Signature]</i>
ENGD	P.P.P.	APPD	<i>[Signature]</i>

TELETYPE CORPORATION

7150WD-D3

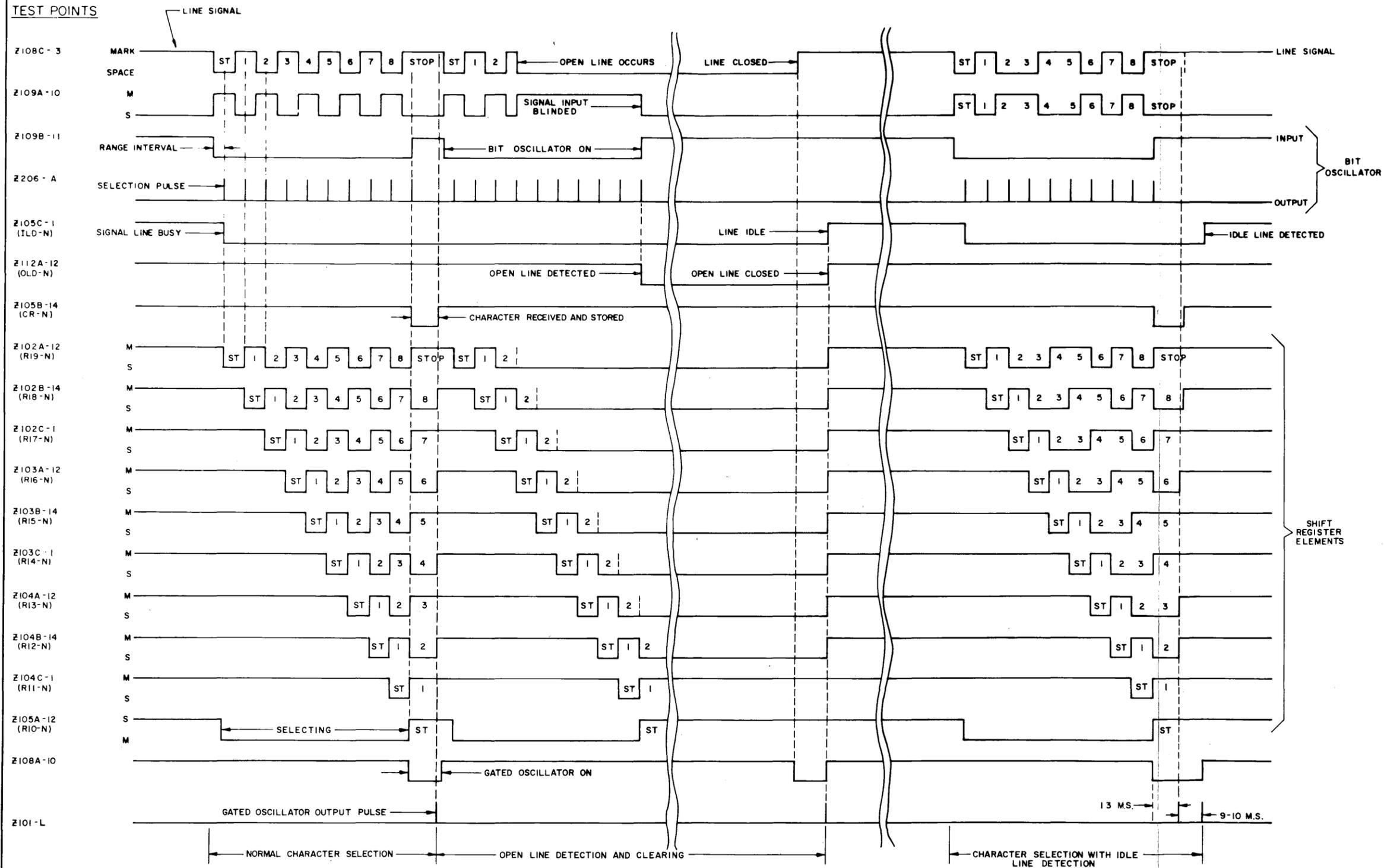
304. RECEIVING SELECTOR TIMING DIAGRAM (FS-1)

NOTE: REVISION INFORMATION MUST ALSO BE REFLECTED ON THE ISSUE CONTROL RECORD.

7150WD-D4

REVISIONS		
ISSUE	DATE	AUTH NO
1	9-17-64	15790-R
2	3-24-65	85514
3	10-8-65	88904

TEST POINTS



NOTE: ALL WAVE FORMS AS VIEWED ON AN OSCILLOSCOPE. VOLTAGE LEVELS ARE ALL ZERO AND -6V. APPROX.

SHEET 4 OF 8

35A-1
LINE CONTROLLER
FOR
BAI DATA SELECTIVE
CALLING SYSTEM

APPROVALS

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

E-NUMBER

PROD. NO. 7150WD-D4

DATE 3-30-64

P.D. FILE NO. 43-A25AA

DRAWN H.D.S. CHKD. *[Signature]*

ENGD. J.A.J. APPD. *[Signature]*

TELETYPE CORPORATION

7150WD-D4

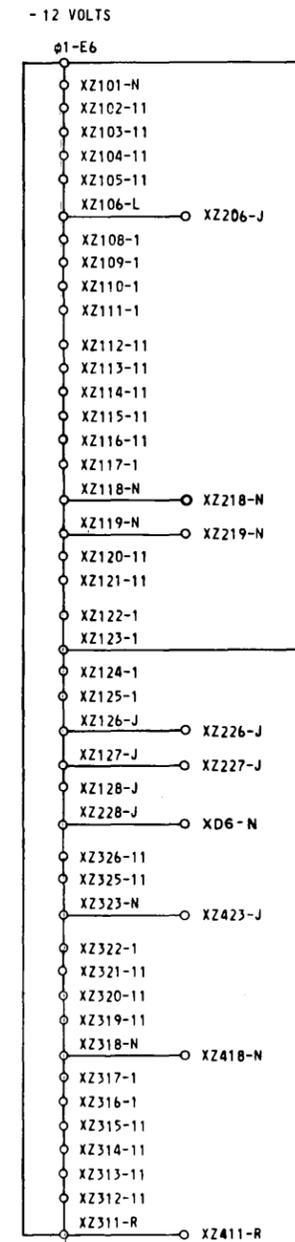
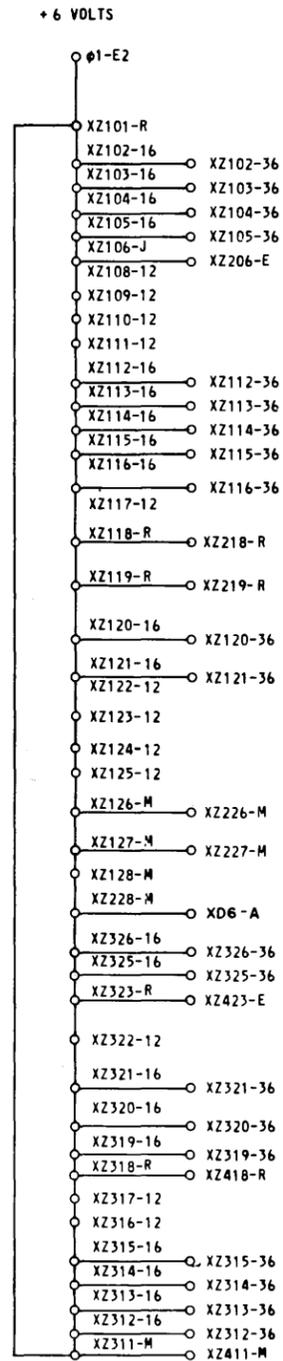
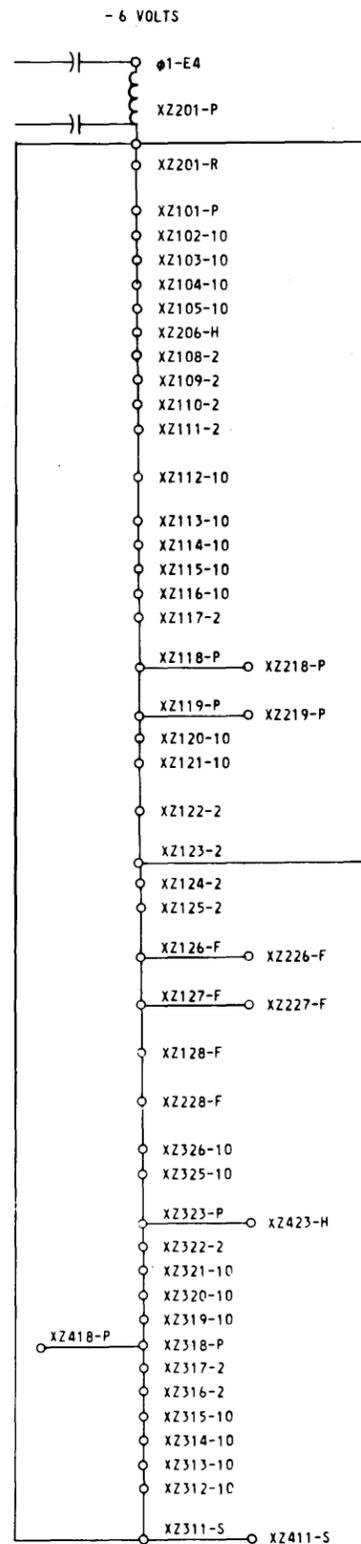
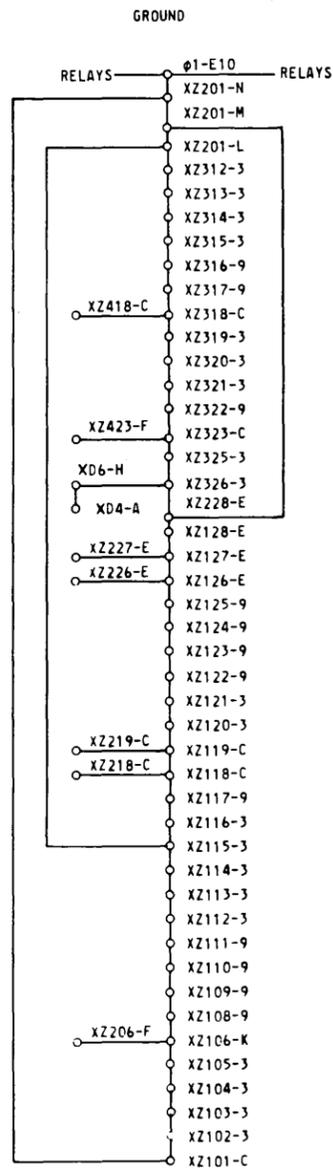
305. VOLTAGE DISTRIBUTION CHARTS FOR PRINTED CIRCUIT CARDS

NOTE: REVISION INFORMATION MUST ALSO BE REFLECTED ON THE ISSUE CONTROL RECORD.

7150WD-D5

REVISIONS

ISSUE	DATE	AUTH. NO.
1	9-17-64	15790-R
2	10-8-65	88904



SHEET 5 OF 8

35A-1
LINE CONTROLLER
FOR
BAI DATA SELECTIVE
CALLING SYSTEM

APPROVALS

D AND R *HJK* E OF M *C*

E-NUMBER

PROD. NO. 7150WD-D5

DATE 3-30-64

P.D. FILE NO. 43-A25AA

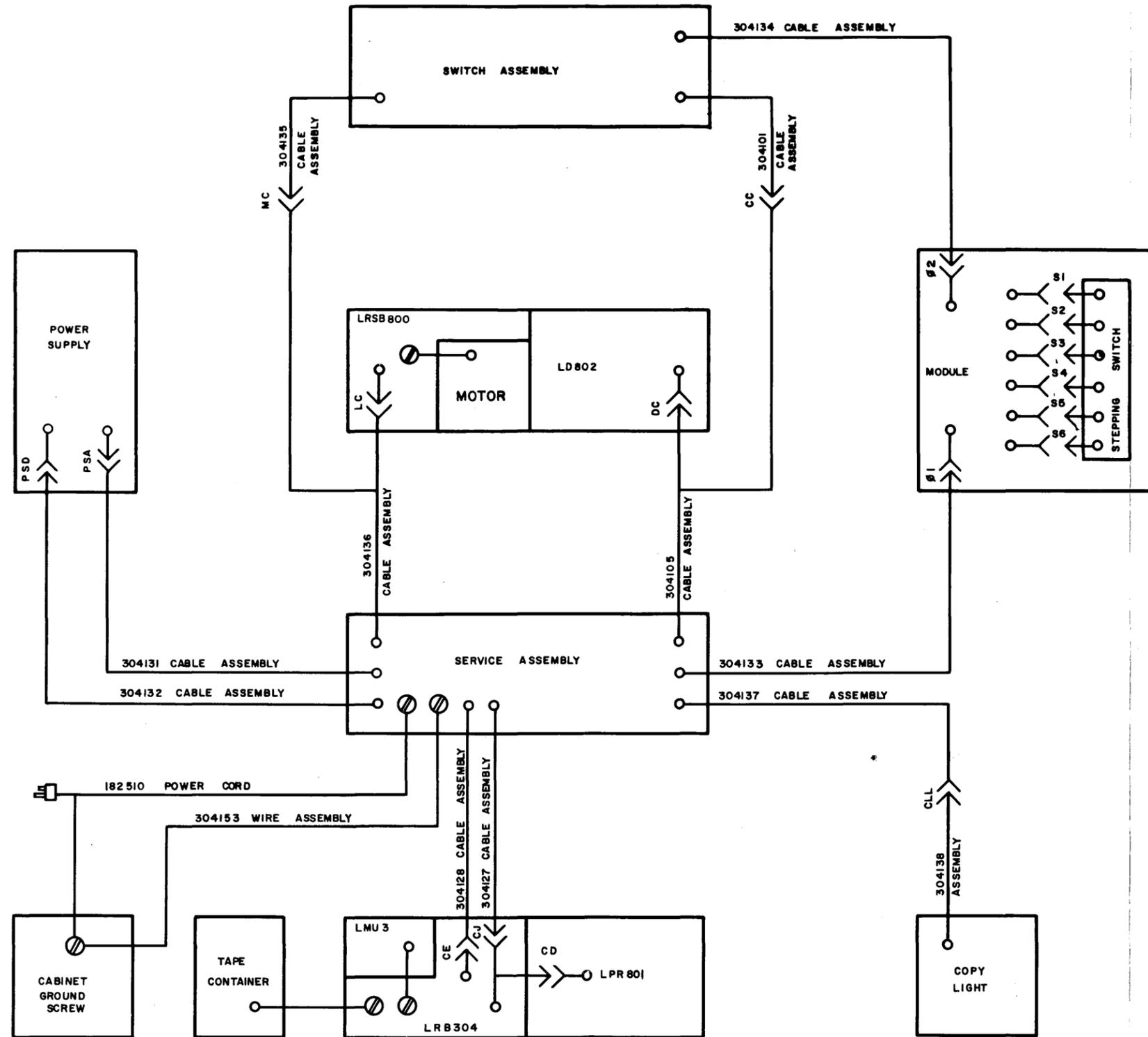
DRAWN H.D.S. CHKD. *[Signature]*

ENGD. J.A.J. APPD. *[Signature]*

TELETYPE
CORPORATION

7150WD-D5

306. INTERCONNECTING CABLES



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

7150WD-D6

ISSUE	DATE	AUTH NO
1	9-17-64	15790-R
2	1-7-65	84192
3	3-16-65	85517
4	3-24-65	85514
5	10-6-65	88896
6	10-8-65	88904
7	5-10-66	88933
8	8-8-66	88896-2

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

SHEET 6 OF 8

35A-1
LINE CONTROLLER
FOR
8AI DATA SELECTIVE
CALLING SYSTEM

APPROVALS

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

E-NUMBER
PROD. NO. 7150WD-D6

DATE: 3-31-64
P.D. FILE NO. 43-A25AA
DRAWN. E. R. CHKD. *[Signature]*
ENGD. R.P.P. APPD. *[Signature]*

TELETYPE CORPORATION

7150WD-D6

307. TRANSMITTING DISTRIBUTOR TIMING DIAGRAM (FS-7)

NOTE: REVISION INFORMATION MUST ALSO BE REFLECTED ON THE ISSUE CONTROL RECORD.

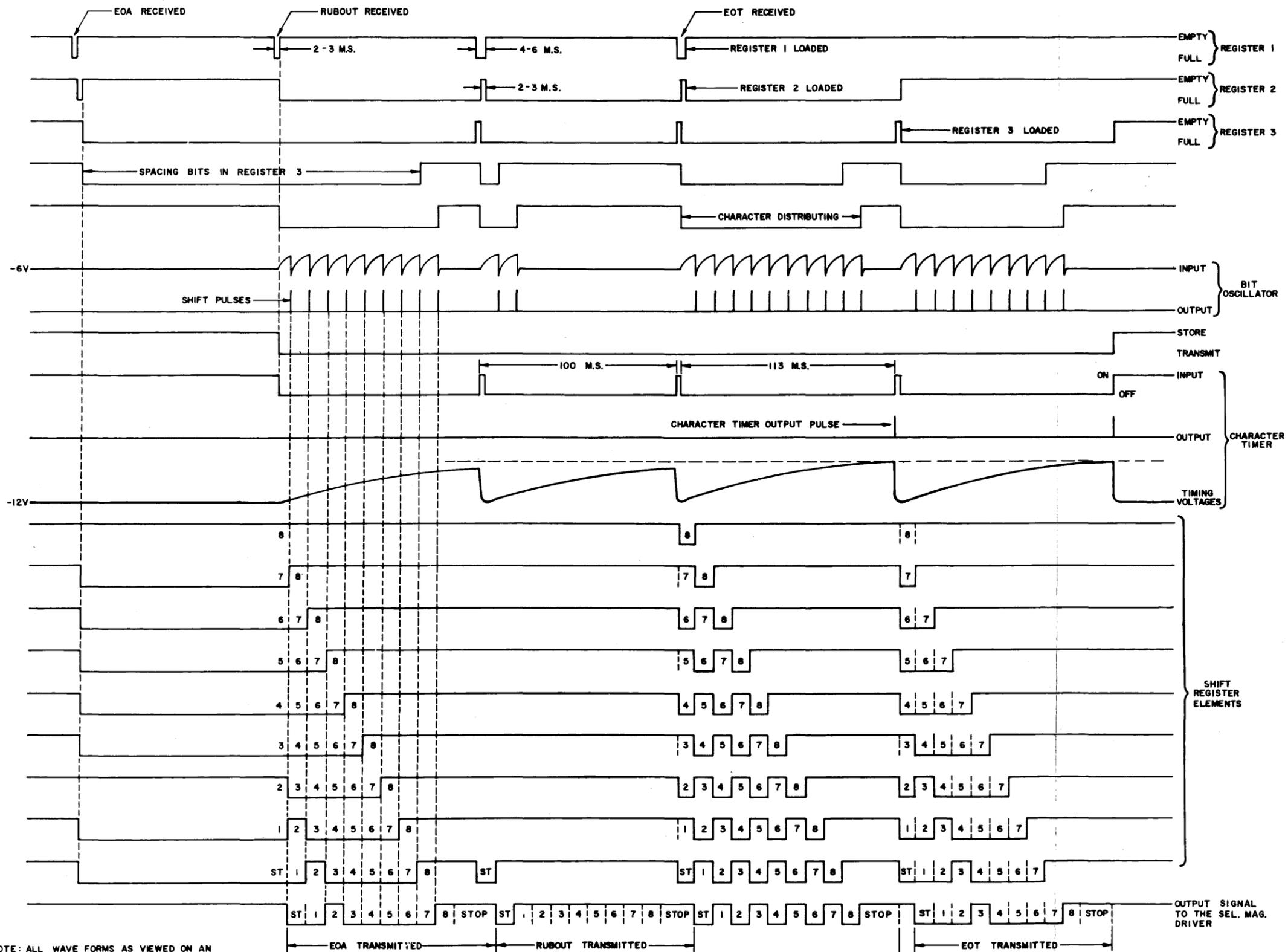
7150WD-D7

REVISIONS

ISSUE	DATE	AUTH. NO.
1	9-17-64	15790-R
2	10-8-65	88904

TEST POINTS

- Z315A-12 (R1L-N)
- Z314C-1 (R2L-N)
- Z315C-1 (R3L-N)
- Z322A-10
- Z322C-3
- Z423-M
- Z423-A
- Z325B-14 (TS-N)
- Z125F-6
- Z323-L
- Z323-A
- Z319A-12 (R38-N)
- Z319B-14 (R37-N)
- Z319C-1 (R36-N)
- Z320A-12 (R35-N)
- Z320B-14 (R34-N)
- Z320C-1 (R33-N)
- Z321A-12 (R32-N)
- Z321B-14 (R31-N)
- Z321C-1 (R30-N)
- Z325A-12 (OE-N)



NOTE: ALL WAVE FORMS AS VIEWED ON AN OSCILLOSCOPE. VOLTAGE LEVELS ARE ZERO AND -6 VOLTS EXCEPT AS INDICATED.

APPROX. 13 M.S.

SHEET 7 OF 8

35A-1
LINE CONTROLLER
FOR
8AI DATA SELECTIVE
CALLING SYSTEM

APPROVALS

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

E-NUMBER

PROD. NO. 7150WD-D7

DATE 4-2-64

P.D. FILE NO. 43-A25AA

DRAWN H.D.S. CHKD. *[Signature]*

ENSD. J.A.J. APPD. *[Signature]*

TELETYPE CORPORATION

7150WD-D7

308. FUNCTION ABBREVIATIONS

ACC - ADDRESS CHARACTER COUNTER
 ACK - ACKNOWLEDGE
 AL - ALARM
 AM - ADDRESS MODE
 AST - ASTERISK

 BEL - BELL CHARACTER
 BO - BIT OSCILLATOR
 BOC - BIT OSCILLATOR CONTROL

 CDC - CALL DIRECTING CODE
 CDCR - CALL DIRECTING CODE RECEIVED
 CDCS - CALL DIRECTING CODE STORED
 CI - COMPARISON INDICATOR
 CP - CONTINUE POLLING
 CR - CHARACTER RECEIVED

 DC - DC CHARACTER

 EOT - END OF TRANSMISSION

 FA - FAIL ALARM (1 OR 2)
 FDD - FORMAT DEVIATION DETECTOR
 FE - FORM EFFECTOR
 FF - FLIP FLOP
 FTI - FAIL TIME INDICATOR

 GC - GRAPHIC COUNTER
 GO - GATED OSCILLATOR

 ILD - IDLE LINE DETECTOR
 IN - INTERCEPT NON-OPERATIVE
 IR - INITIAL RESPONSE
 IT - INTERCEPT TEXT

 LB - LINE BREAK
 LBG - LINE BREAK GENERATOR

MC - MESSAGE COUNTER (1,2 OR 3)
 MI - MESSAGE INTERCEPT
 MT - MAINTENANCE RELAY

 NAND - NOT AND GATE
 NOR - NOT OR GATE
 NR - NO RESPONSE (1 THRU 5)

 OE - OUTPUT ELEMENT
 OLD - OPEN LINE DETECTOR
 \overline{OR} - EXCLUSIVE OR GATE

 P - PULSE
 POLLSS - POLLING STEPPING SWITCH
 PSS - POLLED STATION SENDING

 R22 - (REGISTER 2, BIT 2)
 BIT NUMBER (\emptyset FOR START, 9 FOR STOP)
 REGISTER NUMBER
 REGISTER
 R2L (REGISTER 2 LOAD)
 LOAD
 REGISTER NUMBER
 REGISTER

 RD - RELAY DRIVER
 RR - RECEIVING RELAY
 RTS - RESET TIME SWITCH

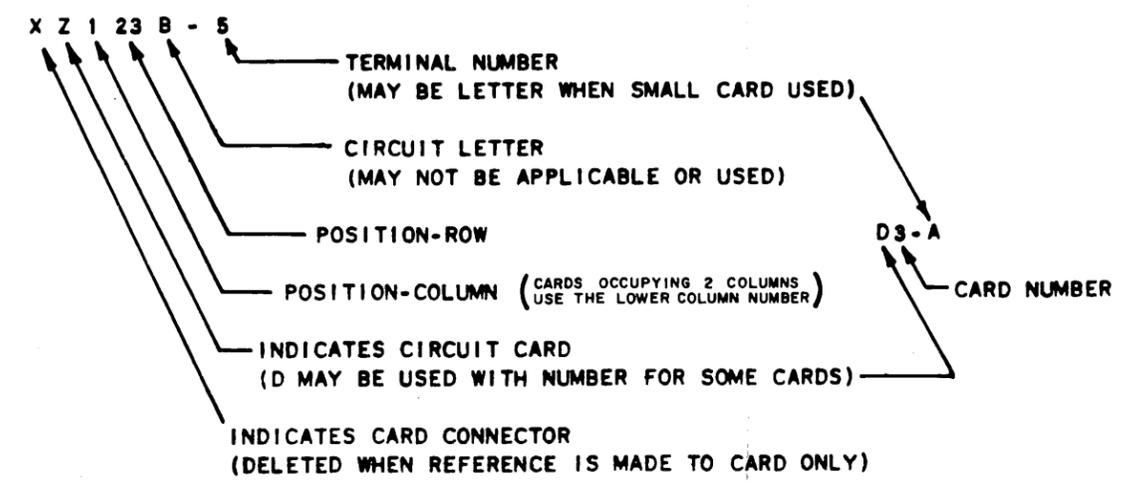
 SK - SKIP
 SOM - START OF MESSAGE

TA - TRANSMIT ADDRESS
 TL - TAPE LEADER
 TM - TEXT MODE
 TS - TRANSMIT SWITCH
 TSC - TRANSMITTER START CODE
 TT - TRANSMIT TEXT

 V - VARIABLE

NOTE: REVISION INFORMATION MUST ALSO BE REFLECTED ON THE ISSUE CONTROL RECORD.

7150WD-D8		
REVISIONS		
ISSUE	DATE	AUTH. NO.
1	9-17-64	15790-R
2	10-8-65	88904



35A-1
 LINE CONTROLLER
 FOR
 SAI DATA SELECTIVE
 CALLING SYSTEM

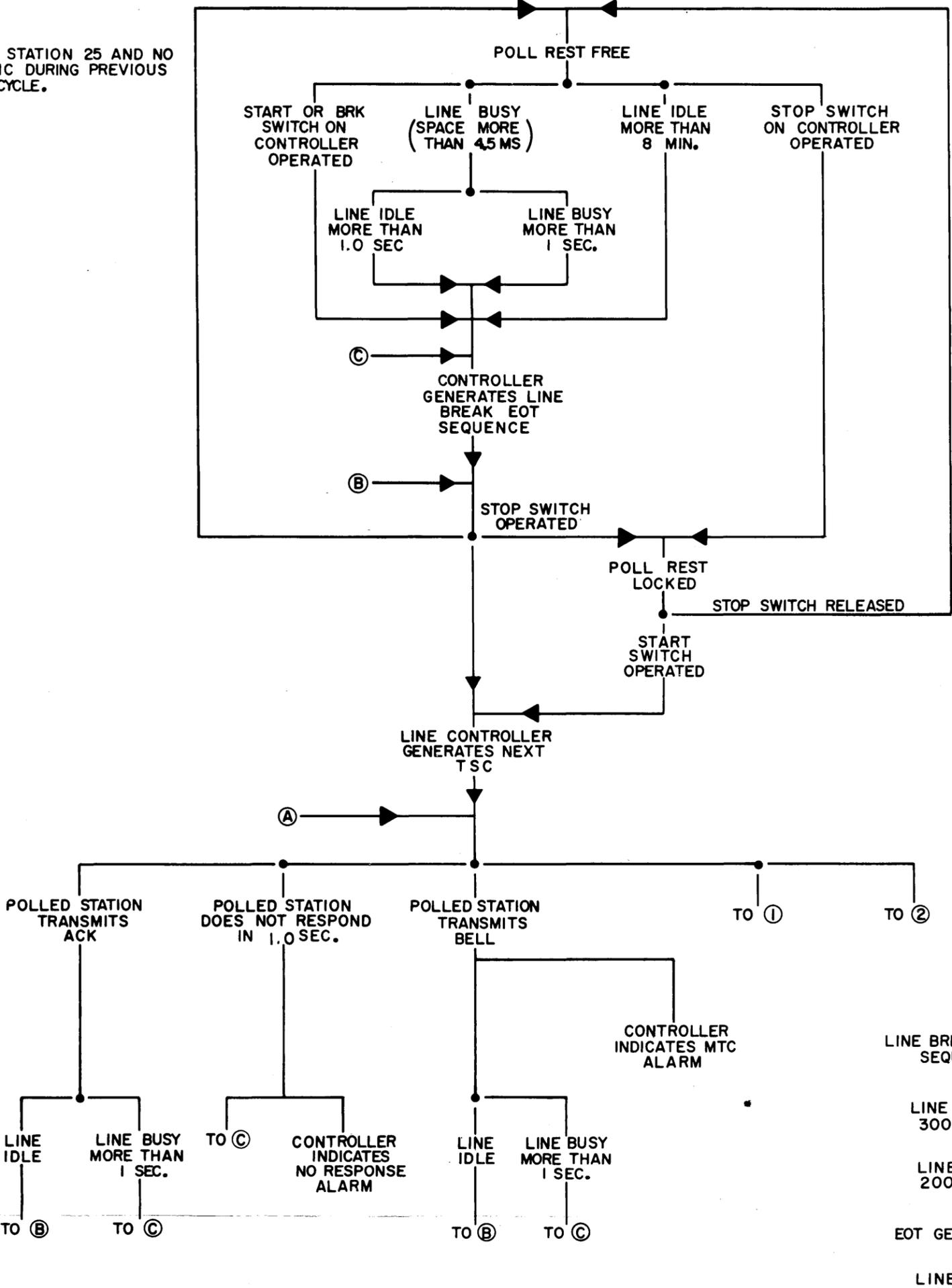
APPROVALS

D AND R	E OF M
<i>HJR</i>	<i>[Signature]</i>
E-NUMBER	
PROD. NO. 7150WD-D8	
DATE: 3/25/64	
P.D. FILE NO.	
DRAWN. MAE	CHKD. <i>[Signature]</i>
ENGD. JAJ	APPD.

TELETYPE CORPORATION
 7150WD-D8

SC-1 LINE CONTROLLER SEQUENCE CHART

AFTER STATION 25 AND NO TRAFFIC DURING PREVIOUS POLL CYCLE.



BREAK SIGNALS OCCURRING AT ANY TIME WILL RETURN THE SYSTEM TO C

7150WD-E1			
REVISIONS			
ISSUE	DATE	AUTH. NO.	
1	9-17-64	15790-R	
2	10-8-65	88904	
3	8-23-66	88950	

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

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

SHEET 1 OF 3

35A-1
LINE CONTROLLER
FOR
BAI DATA SELECTIVE
CALLING SYSTEM

APPROVALS

D AND R
E OF M

E-NUMBER

PROD. NO. 7150WD-E1

DATE 4-2-64

P.D. FILE NO. 43-A25-AA

DRAWN L.J.F. CHKD. J.A.J.

EMOD. J.A.J. APPD.

TELETYPE CORPORATION

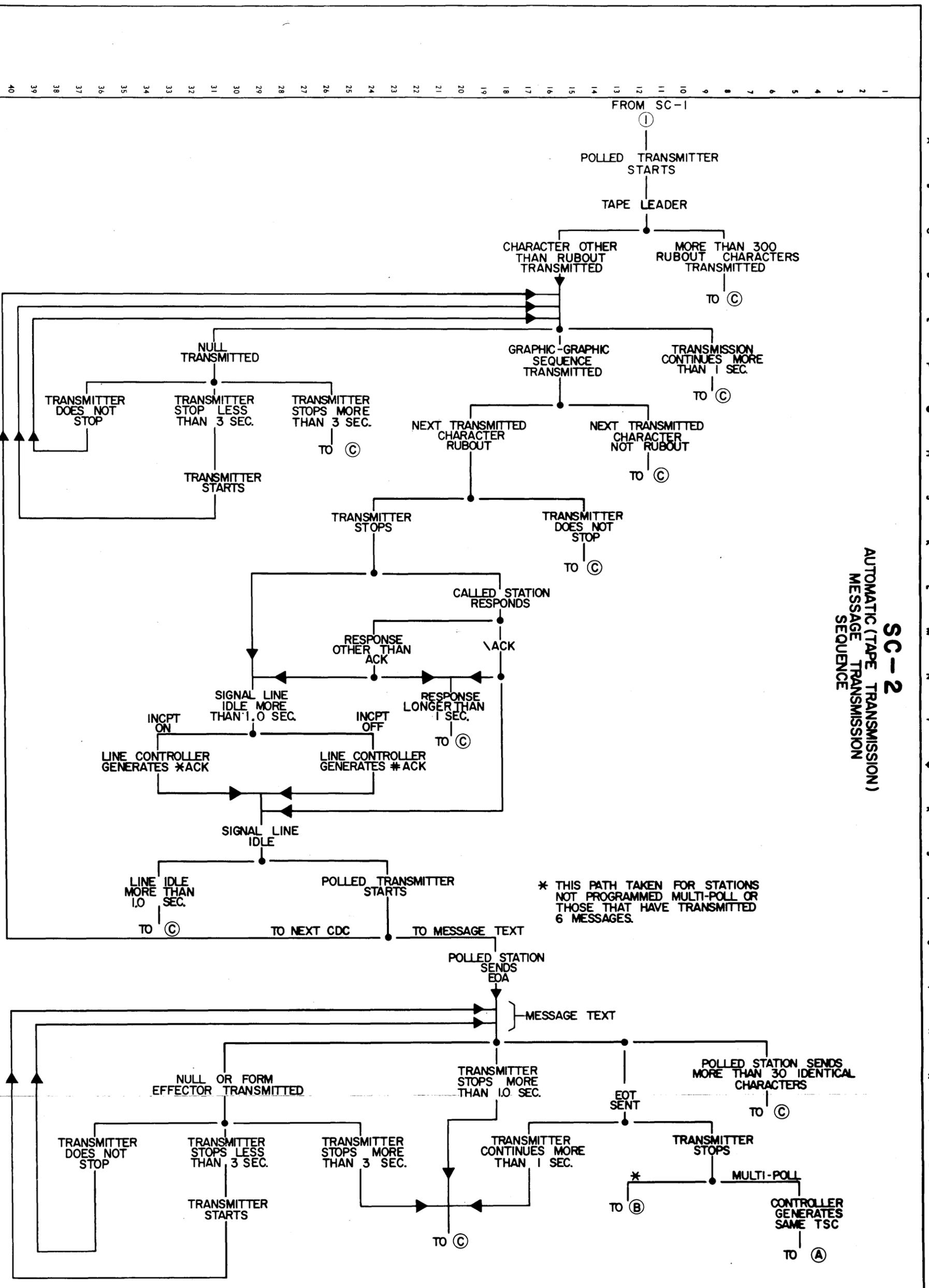
7150WD-E1

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 29 30 31 32 33 34 35 36 37 38 39 40

A B C D E F G H J K L M N P Q R S T U V W X Y Z AA AB AC AD AE

30 31 32 33 34 35 36 37 38 39 40

SC-2
AUTOMATIC (TAPE TRANSMISSION)
MESSAGE SEQUENCE



* THIS PATH TAKEN FOR STATIONS NOT PROGRAMMED MULTI-POLL OR THOSE THAT HAVE TRANSMITTED 6 MESSAGES.

7150WD-E2		
REVISIONS		
1	ISSUE	DATE
2	9-17-64	15790-R
3	10-8-65	88904
4	8-23-66	88900

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

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

SHEET 2 OF 3

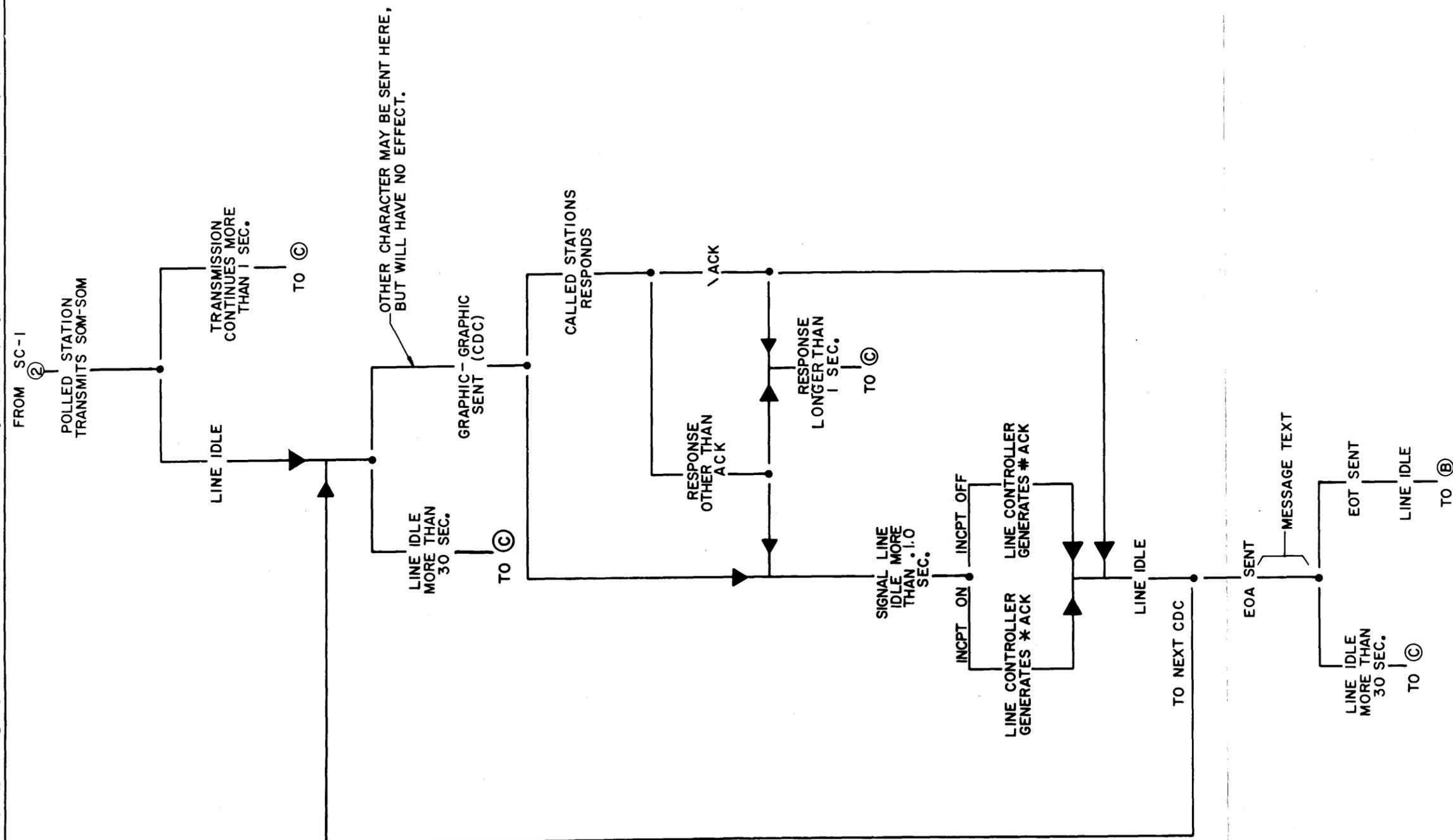
35A-1
LINE CONTROLLER
FOR
8AI DATA SELECTIVE
CALLING SYSTEM

APPROVALS

D AND R
E OF M

PROB. NO.	7150WD-E2
E-NUMBER	
DATE	4-2-64
P.D. FILE NO.	43-A251A
DRAWN	E. R. CHKO.
ENGD.	P. P. P. APPD.
TELETYPE CORPORATION	
7150WD-E2	

SC-3 KEYBOARD MESSAGE TRANSMISSION SEQUENCE



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

7150WD-E3		
REVISIONS		
ISSUE	DATE	AUTH. NO.
1	9-17-64	15790-R
2	10-8-65	88904
3	8-23-66	88950

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

35A-1 LINE CONTROLLER FOR BAI DATA SELECTIVE CALLING SYSTEM	
APPROVALS	
D AND R <i>[Signature]</i>	E OF M <i>[Signature]</i>
E-NUMBER	
PROD. NO. 7150WD-E3	
DATE 4-2-64	
P.D. FILE NO. 43-A25AA	
DRAWN L. J. F.	CHKD. <i>[Signature]</i>
ENGD. J. A. J.	APPD.
TELETYPE CORPORATION	
7150WD-E3	

CIRCUIT REQUIREMENTS															
APPARATUS				MECH. REQ.			CIRCUIT PREPARATION			TEST SET PREP.	SEE TEST NOTE	DIRECT CURRENT FLOW REQ.			REMARKS
DEBN.	CODE	OPT.	FIG.	BSP FIG.	CONT. PRESS.	ARM TRVL.	BLOCK OR INSULATE	TEST CLIP DATA	TEST WDG.			TEST FOR	AFTER SOAK MA.	TEST MA.	
A	AK22		1	216				CONN. BAT. 2U(A)	G		U	0	27.3	26	MOUNTS WITH(A)
A1	AK22		1	216				2L(A1)	G	1	L	0	27.3	26	MOUNTS WITH(A)
ACK	AJ15		1	249				U(ACK)	G			0	42.5	40.5	
AL	AK22		1	216				2L(AL)	G		L	0	42.5	40.5	MOUNTS WITH(IN)
AST	AJ15		1	249				U(AST)	G			0	42.5	40.5	
B	AK22		1	216				2U(B)	G		U	0	27.3	26	MOUNTS WITH(B1)
B1	AK22		1	216				2L(B1)	G	1	L	0	27.3	26	MOUNTS WITH(B)
C	AK22		1	216				2U(C)	G		U	0	27.3	26	MOUNTS WITH(C1)
C1	AK22		1	216				2L(C1)	G		L	0	27.3	26	MOUNTS WITH(C)
CP	AK22		1	216				2U(CP)	G		U	0	27.3	26	MOUNTS WITH(SK)
EOT	AJ15		1	249				U(EOT)	G			0	42.5	40.5	
DC	AJ15		1	249				U(DC)	G			0	42.5	40.5	
FA1	304147		4									0	24	23	12V D.C.
FA2	304151		4									0	15.75	15	20V D.C.
IN	AK22		1	216				2U(IN)	G		U	0	27.3	26	MOUNTS WITH(AL)
LB	AK22		1	216				2L(LB)	G		L	0	27.3	26	MOUNTS WITH(M1)
M1	AK22		1	216				2U(M1)	G		U	0	27.3	26	MOUNTS WITH(LB)
MT	AK22		1	216				2U(MT)	G		U	0	27.3	26	MOUNTS WITH(P)
NR1-1								15(NR1-1)	G	2 & 3	1	0	10.5	10	
NR1-2								25(NR1-2)	G	2 & 3	2	0	10.5	10	
NR1-3	293A		2					35(NR1-3)	G	2 & 3	3	0	10.5	10	ONE MOUNTING
NR1-4								45(NR1-4)	G	2 & 3	4	0	10.5	10	
NR1-5								55(NR1-5)	G	2 & 3	5	0	10.5	10	
NR2-6								15(NR2-6)	G	2 & 3	1	0	10.5	10	
NR2-7								25(NR2-7)	G	2 & 3	2	0	10.5	10	
NR2-8	293A		2					35(NR2-8)	G	2 & 3	3	0	10.5	10	ONE MOUNTING
NR2-9								45(NR2-9)	G	2 & 3	4	0	10.5	10	
NR2-10								55(NR2-10)	G	2 & 3	5	0	10.5	10	

TEST NOTES:

1. DISREGARD OPERATION OF OTHER RELAYS.
2. SHOULD LIGHT CORRESPONDING SKIP LAMP ON SWITCH PANEL.
3. TO RELEASE RELAY, OPERATE RESET KEY ON SWITCH PANEL.
4. TO TEST, USE ADAPTER AND ADJUST ACCORDING TO 255A REQUIREMENTS.

APPROVALS		DATE	3 - 31 - 64	TELETYPE CORPORATION	
D AND R	E OF M	P.D. FILE NO.	43 - A25AA	7150WD-F1	
DRAWN		CHKD.			
ISSUE	DATE	AUTH. NO.	E-NUMBER	ENGD. P.P.P.	APPD.
REVISIONS		PROD. NO. 7150WD - F1			

CIRCUIT REQUIREMENTS															
APPARATUS				MECH. REQ.			CIRCUIT PREPARATION			TEST SET PREP.	SEE TEST NOTE	DIRECT CURRENT FLOW REQ.			REMARKS
DEBN.	CODE	OPT.	FIG.	BSP FIG.	CONT. PRESS.	ARM TRVL.	BLOCK OR INSULATE	TEST CLIP DATA	TEST WDG.			TEST FOR	AFTER SOAK MA.	TEST MA.	
NR3-11								15(NR3-11)	G	2 & 3	1	0	10.5	10	
NR3-12								25(NR3-12)	G	2 & 3	2	0	10.5	10	
NR3-13	293A		2					35(NR3-13)	G	2 & 3	3	0	10.5	10	ONE MOUNTING
NR3-14								45(NR3-14)	G	2 & 3	4	0	10.5	10	
NR3-15								55(NR3-15)	G	2 & 3	5	0	10.5	10	
NR4-16								15(NR4-16)	G	2 & 3	1	0	10.5	10	
NR4-17								25(NR4-17)	G	2 & 3	2	0	10.5	10	
NR4-18	293A		2					35(NR4-18)	G	2 & 3	3	0	10.5	10	ONE MOUNTING
NR4-19								45(NR4-19)	G	2 & 3	4	0	10.5	10	
NR4-20								55(NR4-20)	G	2 & 3	5	0	10.5	10	
NR5-21								15(NR5-21)	G	2 & 3	1	0	10.5	10	
NR5-22								25(NR5-22)	G	2 & 3	2	0	10.5	10	
NR5-23	293A		2					35(NR5-23)	G	2 & 3	3	0	10.5	10	ONE MOUNTING
NR5-24								45(NR5-24)	G	2 & 3	4	0	10.5	10	
NR5-25								55(NR5-25)	G	2 & 3	5	0	10.5	10	
RR	304184		3												300-1 MAGNETIC DEVICES
P	AK22		1	216				2L(P)	G		L	0	27.3	26	MOUNTS WITH(MT)
SK	AK22		1	216				2L(SK)	G		L	0	27.3	26	MOUNTS WITH(CP)
V	AJ15		1	249				U(V)	G			0	42.5	40.5	

BSP B458.01 MAINTENANCE OF A.E. STEPPING SWITCHES
 BSP B505.120 PARTS FOR A.E. STEPPING SWITCHES.

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

SHEET 1 OF 2 **2**

APPROVALS		DATE	3 - 31 - 64	TELETYPE CORPORATION	
D AND R	E OF M	P.D. FILE NO.	43 - A25AA	7150WD-F1	
DRAWN		CHKD.			
ISSUE	DATE	AUTH. NO.	E-NUMBER	ENGD. P.P.P.	APPD.
REVISIONS		PROD. NO. 7150WD - F1			

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

TIMING REQUIREMENTS

NOTES:

- ALL ADJUSTMENTS ARE TO BE MADE WITH THE LINE CONTROLLER IN POLL REST LOCKED AND Z126, Z127, Z128, Z226, Z227 AND Z228 REMOVED.
- ADJUSTING SEQUENCES 1, 2, 3 AND 4 ARE TO BE MADE WITH A DUAL TRACE OSCILLOSCOPE, HAVING AN INPUT IMPEDENCE OF 10 MEG. OHMS. TRACE A IS CONNECTED TO THE REFERENCE SIGNAL (Z108-3, REFER TO SHEET D4) AND TRACE B TO THE OUTPUT POINT. ADJUSTMENTS ARE MADE TO THE OUTPUT POINT WITH RESPECT TO THE REFERENCE SIGNAL. THE REFERENCE POINT IS -6 VOLTS FOR SPACING AND GROUND FOR MARKING.
- IF THE TEST SIGNAL GENERATOR DOES NOT SUPPLY LINE BATTERY:
 - MOVE THE ORANGE WIRE ON TF-C4 TO TF-C1
 - MOVE THE WHITE-BLUE WIRE ON TF-D4 TO TF-C4
 THE LINE CONTROLLER WILL THEN SUPPLY 20 MA. AT 48 VOLTS ACROSS THE SIGNAL LINE INPUT POINTS (1 AND 3 OF TB SIGNAL LINE). (SEE NOTE 7)
- ADJUSTING STEPS MARKED * ARE NECESSARY ONLY IN ORIGINAL MANUFACTURE OR FOLLOWING REPLACEMENT OF Z101, Z106, Z206 AND Z423.
- ADJUSTMENT RANGE FOR Z318 AND Z418 IS 1/2 TO 6 MSEC.
- CUT OFF POWER INPUT BEFORE REMOVING OR INSERTING CARDS, OR MAKING STRAP CONNECTIONS.

ADJUSTING SEQUENCE 1

- CONNECT XZ106-A TO -6 VOLTS.
- ADJUST THE POTENTIOMETER ON Z206, SO THAT OUTPUT PULSES APPEAR AT Z206-A EVERY 9.1 MS. DISCONNECT -6VOLTS FROM XZ106-A.
- REMOVE Z108. CONNECT -6VOLTS TO XZ101-B.
- ADJUST THE POTENTIOMETER ON Z101, SO THAT OUTPUT PULSES APPEAR AT Z101-L EVERY 10 MS. DISCONNECT -6 VOLTS FROM XZ101-B. INSTALL Z108.
- TRANSMIT CONTINUOUS SOM CHARACTERS TO INPUT (SEE NOTE 3).
- ADJUST THE POTENTIOMETER ON Z106, SO THAT THE FIRST OUTPUT PULSE APPEARING AT Z206-A FOR EACH CHARACTER, OCCURS IN THE CENTER OF THE START BIT. (ie. 4.54 MS AFTER THE START OF THE CHARACTER).
- ADJUST THE POTENTIOMETER ON Z206, SO THAT THE LAST OUTPUT PULSE (10th) AT Z206-A OCCURS AT THE CENTER OF THE 10th SIGNAL BIT (ie. 4.54 MS AFTER THE BEGINING OF THE STOP SIGNAL).
- ADJUST THE POTENTIOMETER ON Z101, SO THAT THE OUTPUT PULSE AT Z101-L OCCURS 0.5 MS TO 1MS BEFORE THE STOP TO START TRANSITION.

NOTES:

- ALL TIMING ADJUSTMENTS ARE FACTORY ADJUSTED AT SIGNAL LINE VOLTAGE OF 120 VDC. OPERATION MAY BE AFFECTED USING LOW VOLTAGE SIGNAL LINE SOURCES AND TIMING SHOULD BE READJUSTED FOR PROPER OPERATION.

APPARATUS				NOMINAL ADJUSTMENT	TEST INPUT	TEST OUTPUT	REMARKS	NOTES
DESIG.	TYPE	FIG.	TTY. NO.					
Z101	GO	7	177585	13.0 MS		L	REFER TO ADJUSTING SEQUENCE 1	
Z118	GO	7	177587	3.0 SEC.	B	A	REFER TO ADJUSTING SEQUENCE 4	
Z119	GO	7	177588	30.0 SEC.	B	A	REFER TO ADJUSTING SEQUENCE 4	
Z218	GO	7	177586	1.0 SEC.	B	A	REFER TO ADJUSTING SEQUENCE 4	
Z219	GO	7	177586	1.0 SEC.	B	A	REFER TO ADJUSTING SEQUENCE 4	
Z318	GO	7	177585	3.0 MS			ADJUST POTENTIOMETER	A, B, C
Z323	GO	7	177585	113.0 MS		L	REFER TO ADJUSTING SEQUENCE 3	
Z418	GO	7	177585	3.0 MS			ADJUST POTENTIOMETER	A, B, C
Z106	BOC	10	177515				REFER TO ADJUSTING SEQUENCE 1	
Z206	BO	9	177555	9.09 MS		A	REFER TO ADJUSTING SEQUENCE 1	
Z423	BO	9	177555	9.09 MS		A	REFER TO ADJUSTING SEQUENCE 2	
D6	HCF	16	177557	0.5-1.0 SEC.		D	ADJUST POTENTIOMETER	A, D

ADJUSTING SEQUENCE 2

- INSTALL Z423 IN PLACE OF Z206.
- PERFORM STEPS 1 AND 2 OF SEQUENCE 1.
- PERFORM STEPS 5, 6 AND 7 OF SEQUENCE 1.
- REPLACE Z423 AND Z206.
- PERFORM STEP 6 OF SEQUENCE 1.

ADJUSTING SEQUENCE 3

- REMOVE Z125.
- CONNECT: XZ105-17 TO XZ325-6 AND 20
XZ325-7 TO XZ325-1
XZ325-21 TO XZ325-2
XZ325-14 TO XZ323-B
- TRANSMIT SOM CHARACTERS TO INPUT.
- ADJUST THE POTENTIOMETER ON Z323, SO THAT THE PULSE AT Z323-L OCCURS IN THE CENTER OF THE SECOND START PULSE, 1/4 PULSE LENGTH
- REMOVE WIRES INSTALLED IN 2 AND REPLACE Z125.

ADJUSTING SEQUENCE 4

- REMOVE Z117, Z122 AND Z123.
- APPLY -6 VOLTS TO TEST INPUT.
- ADJUST THE POTENTIOMETER ON THE TEST CARD, SO THAT THE FIRST SAWTOOTH WAVE FORM AT THE TEST OUPUT, FOLLOWING THE APPLICATION OF -6V TO THE INPUT, COLLAPSES AT THE NOMINAL TIMING ADJUSTMENT. (±10%)
- REPLACE Z117, Z122 AND Z123 AND DISCONNECT -6 VOLT FROM TEST INPUT (B).

NOTES. A. FREE RUNNING IGNORE SEQUENCE 4?

B. 3.25 ± 1/2 MS. POSITION POT. TO A STABLE PORTION ON ITS WINDING.

- IF THE 177585 CARD HAS A STRAP:
 - BETWEEN 7 AND 133MS, LEAVE STRAP IN.
 - BETWEEN 1.7 AND 7MS, CUT STRAP.

D. ADJUST PERIOD TO INDICATE TIME.

7150WD-F2

REVISIONS

ISSUE	DATE	AUTH. NO.
1	9-17-64	15790-R
2	3-24-65	85514
3	6-7-65	85546
4	10-8-65	88904
5	11-11-65	88913
6	5-10-66	88933
7	8-23-66	88950
8	11-8-66	91487
9	2-27-67	93086
10	9-8-67	94486-C
11	9-10-69	99550
12	12-18-70	99550-2

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.

35A-1
LINE CONTROLLER
FOR
BAI DATA SELECTIVE
CALLING SYSTEM

APPROVALS

D AND R E OF M

E-NUMBER

PROD. NO. 7150WD-F2

DATE 4-7-64

P.D. FILE NO. 43-A25AA

DRAWN L.J.F. CHKD.

ENGD. J.A.J. APPD.

TELETYPE
CORPORATION

7150WD-F2

7150WD-W3

NO.	NOTES	OTHER END TERMINATION		COMP	TERMINAL FIELD	TERMINAL BOARD	CONNECTOR	CONNECTOR	TERMINAL BOARD	WIRING FIELD	OTHER END TERMINATION	
		PAGE	UNIT / TERM								UNIT / TERM	PAGE
1.	ALL STRAPS ARE BLACK.			COMP DESIG.	TF							
2.	ALL LEADS ARE 24 AWG UNLESS OTHERWISE SPECIFIED.			ASSOC. ASSEM.								
3.	WIRE COLOR CODE KEY BK-BLACK G-GREEN BR-BROWN BL-BLUE R-RED W-WHITE O-ORANGE S-SLATE Y-YELLOW P-PURPLE			COMP NO.	198208					198208		
4.	STRAP G2, J1 IS OMITTED ON UNITS EQUIPPED WITH (NEW) 174546 MOTOR SENSING CONTACTS.											

REVISIONS		
ISSUE	DATE	AUTH NO
1	9-17-64	15790-R
2	11-18-64	83729
3	3-24-65	85514
4	10-8-65	88904
5	10-25-65	88905
6	2-1-66	88923
7	5-10-66	88933
8	8-9-66	88926
9	11-8-66	91487

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

SEE ISSUE CONTROL RECORD FOR COMPLETE LIST OF SHEETS COMPRISING THIS W.D.
SHEET 3 OF 18
 304200 SERVICE ASSEMBLY

35A-1
 LINE CONTROLLER
 FOR
 8AI DATA SELECTIVE CALLING SYSTEM

APPROVALS	
D AND R <i>AAK</i>	E OF M <i>CS</i>
E-NUMBER 7150WD-W3	
PROD. NO. 7150WD-W3	
DATE 2-28-64	
P.D. FILE NO. 43-A25AA	
DRAWN L. J. F.	CHKD. <i>JFK</i>
ENGD. J. A. J.	APPD.

TELETYPE CORPORATION
7150WD-W3

SEE NOTE 4

197054 1
 197054 2
 197054 3
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 197054 5
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304154
 CABLE ASSEMBLY
 SL

304137
 CABLE ASSEMBLY
 CLL

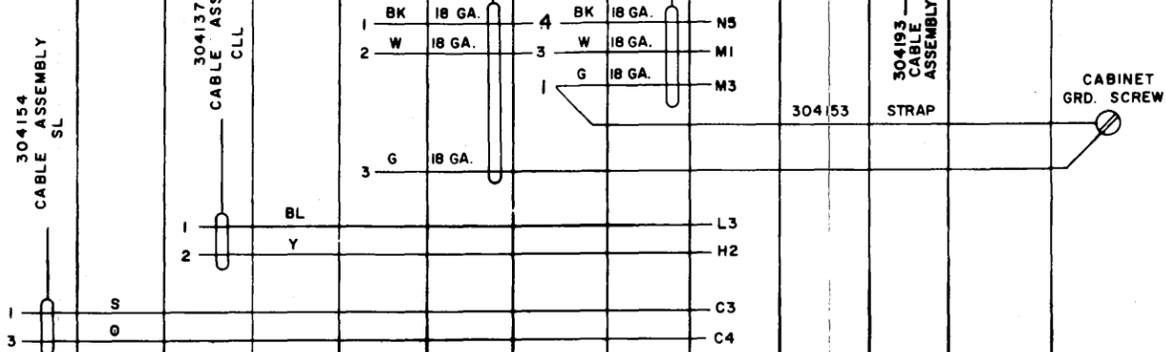
182510
 CORD, POWER

304155
 CABLE ASSEMBLY
 TT

304193
 CABLE ASSEMBLY

304153
 STRAP

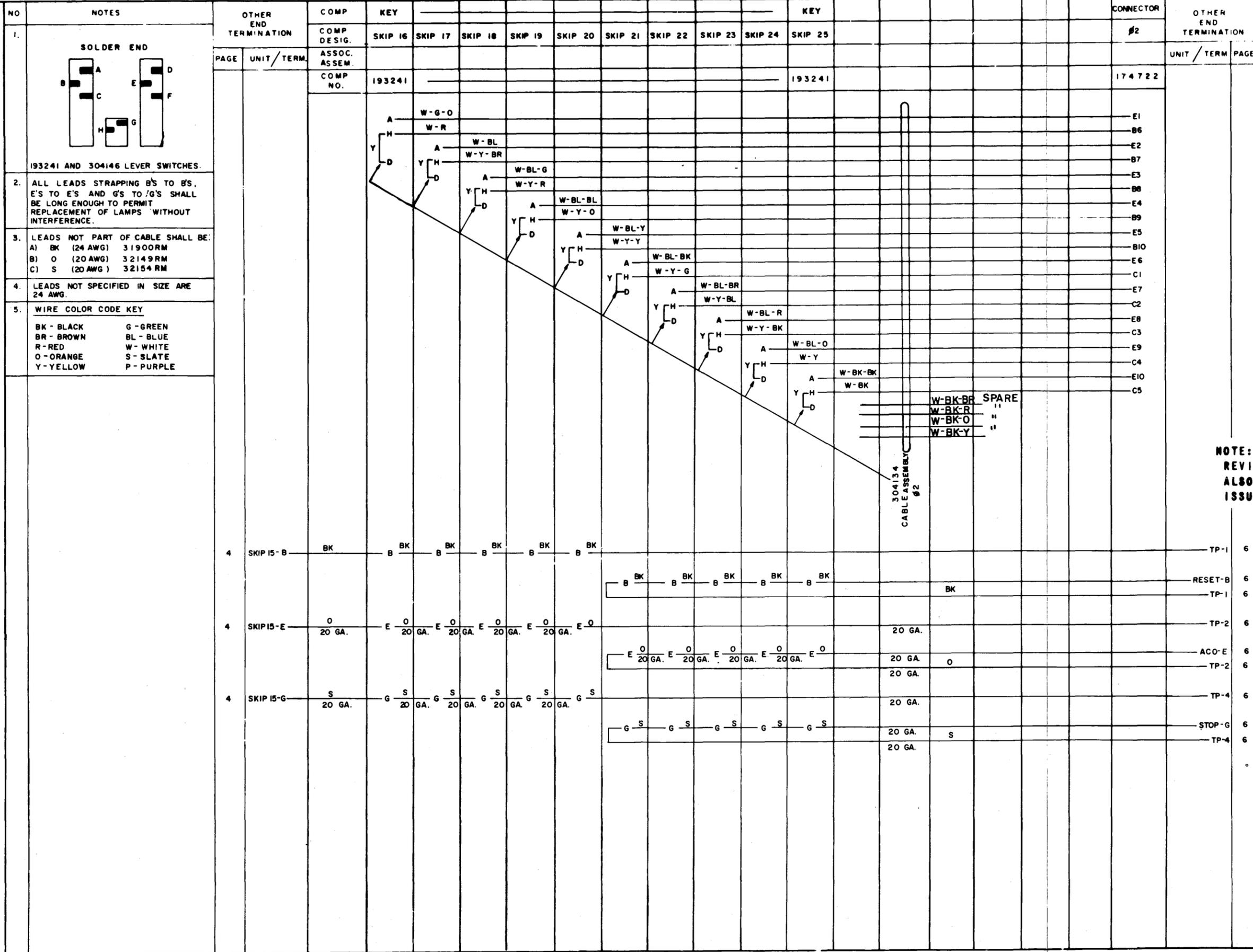
CABINET
 GRD. SCREW



7150WD-W5

REVISIONS

ISSUE	DATE	AUTH NO
1	9-17-64	15790-R
2	11-18-64	83732
3	9-8-65	84555
4	10-8-65	88904
5	5-10-66	88933



NOTES

1. **SOLDER END**

193241 AND 304146 LEVER SWITCHES.

2. ALL LEADS STRAPPING B'S TO B'S, E'S TO E'S AND G'S TO G'S SHALL BE LONG ENOUGH TO PERMIT REPLACEMENT OF LAMPS WITHOUT INTERFERENCE.

3. LEADS NOT PART OF CABLE SHALL BE:
 A) BK (24 AWG) 31900RM
 B) O (20 AWG) 32149RM
 C) S (20 AWG) 32154RM

4. LEADS NOT SPECIFIED IN SIZE ARE 24 AWG.

5. **WIRE COLOR CODE KEY**

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

NOTE:
 REVISION INFORMATION MUST ALSO BE REFLECTED ON THE ISSUE CONTROL RECORD.

SHEET 5 OF 18
 304150
 CONTROL SWITCH ASSEMBLY

35A-1
 LINE CONTROLLER
 FOR
 8AI DATA SELECTIVE
 CALLING SYSTEM

APPROVALS

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

E-NUMBER
 PROD. NO. 7150WD-W5
 DATE 3-3-64
 P.D. FILE NO. 43-A25AA
 DRAWN L.J.F. CHKD. *[Signature]*
 ENGD. J.A.J. APPD.

TELETYPE CORPORATION
7150WD-W5

7150WD-W8

NO.	NOTES	OTHER END TERMINATION		COMP. DESIG.	CONNECTOR	OTHER END TERMINATION																
		PAGE	UNIT / TERM.																	UNIT / TERM.	PAGE	
1.	ALL LEADS 24 GAUGE GREEN UNLESS OTHERWISE SPECIFIED.				XZ112	XZ113	XZ114	XZ115	XZ116	XZ117	XZ118	XZ218	XZ119	XZ219	XZ120	XZ121						
2.	WIRE COLOR CODE KEY BK - BLACK BR - BROWN BL - BLUE O - ORANGE R - RED				303671	303671	303671	303671	303671	303652	177587	177586	177588	177586	303671	303671						
3.	ALL STRAPPING 24 AWG BARE				148440	148440	148440	148440	148440	148440	304144	304144	148440	148440								
7	XZ201-L		BK																			
7	XZ111-9		BK		3	3	3	3	3	3	BK	9	BK							XZ122-9	10	
7	XZ111-1		BL		11	11	11	11	11	11	BL	1	BL								XZ122-1	10
7	XZ111-2		R		10	10	10	10	10	10	R	2	R								XZ122-2	10
7	XZ111-12		O		16	16	16	16	16	16	O	12	O								XZ122-12	10
10	XZ124-7																					
7	XZ105-8				34					27												
13	XZ322-27					2																
7	XZ108-20				28																	
7	XZ110-29					8		33														
7	XZ108-36							28														
7	XZ108-24							8		8												
7	XZ109-23				29																	
7	XZ108-13				12																	
10	XZ124-8				13																	
7	XZ109-7				35		25	23														
7	XZ108-15				8																	
7	XZ110-6				27		34	4		18												
7	XZ111-4				18																	
7	XZ111-3				4			35		28												
7	XZ111-11				27			32														
10	XZ124-6				28			13														
18	XD4-N				5			32														
7	XZ111-30				19			35		19												
7	XZ111-6				17																	
7	XZ111-15				26																	
7	XZ109-6				14																	
7	XZ110-15				9																	
10	XZ124-6				2																	
10	XZ124-6				12																	
10	XZ124-6				29																	
10	XZ124-6				17																	
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10	XZ124-6				1																	
10	XZ124-6				10																	
10	XZ124-6				31																	
10	XZ124-6				1																	
10	XZ124-6				21																	

REVISIONS		
ISSUE	DATE	AUTH. NO.
1	9-17-64	15790-R
2	3-24-65	85514
3	4-5-65	85534
4	6-7-65	85546
5	8-11-65	84513
6	8-20-65	85514-1
7	10-8-65	88904
8	11-8-65	88910
9	2-1-66	88923
10	10-26-67	94533-C

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.

304100 CONTROL MODULE ASSEM.

35A-1
LINE CONTROLLER
FOR
8AI DATA SELECTIVE
CALLING SYSTEM

APPROVALS	
D AND R	E OF M
E-NUMBER	
PROD NO. 7150WD-W8	
DATE 3-21-64	
P.D. FILE NO. 43-A25AA	
DRAWN	H.D.S. CHKD.
ENGD	J.A.J. APPD.

TELETYPE
CORPORATION

7150WD-W8

715 OWD-W10

NO.	NOTES	OTHER END TERMINATION		COMP. COMP. DESIG.	COMP. ASSOC. ASSEM. COMP. NO.	CONNECTOR		CONNECTOR		CONNECTOR		CONNECTOR		CONNECTOR		OTHER END TERMINATION	
		PAGE	UNIT / TERM.			XZ122	XZ123	XZ124	XZ125	XZ126	XZ226	XZ127	XZ227	XZ128	XZ228	UNIT / TERM	PAGE
1.	ALL LEADS 24 GAUGE GREEN UNLESS OTHERWISE SPECIFIED.					303652	303653	303652	303653	177581	177581	177581	177581				
2.	WIRE COLOR CODE KEY BK - BLACK BR - BROWN BL - BLUE O - ORANGE R - RED					148440	148440	148440	148440	304144	304144	304144					
3.	ALL STRAPPING 24 AWG BARE																
7	XZ201-M			BK													
8	XZ121-3			BK		9	9	9	9	BK	E	BK	E	E	BK	E	BK
16	Ø1-E6			BL													
8	XZ121-11			BL		1	1	1	1	BL	J	BL	J	J	BL	J	BL
7	XZ201-R			R													
8	XZ121-10			R		2	2	2	2	R	F	R	F	F	R	F	R
13	XZ322-29			O		8											
8	XZ121-16			O		12	12	12	12	O	M	O	M	M	O	M	O
8	XZ116-8					19	27										
7	XZ109-18					11											
8	XZ112-12					24											
7	XZ108-7						14	6									
8	XZ112-14						22	10									
9	XZ120-2						26	34									
8	XZ112-1						30										
8	XZ113-29						35										
8	XZ117-30					33	13										
11	XZ317-13							25	36								
8	XZ114-12								31								
8	XZ114-33						6		18								
9	XZ115-29						15		24								
9	XZ115-1						24	36									
8	XZ116-12								15								
8	XZ117-18																
8	XZ117-29					18	11		10								
8	XZ120-27					8	18	19	17								
8	XZ119-8					10	28	11									
8	XZ117-8						20	4									
8	XZ218-8						10										
8	XZ120-5					6											
8	XZ120-9					4	8										
8	XZ118-L					14	3										
8	XZ119-L					16		21									
9	XZ218-L					15		31									
8	XZ120-12							24									
18	XD4-P						31	3									
8	XZ120-35					25		5									
8	XZ121-29					3		29									
9	XZ121-34							7									
9	XZ121-35					36		7									
9	XZ121-32					17		15									
9	XZ121-24					31		8									
9	XZ121-20					32		28									
9	XZ117-28					21	7	27									
9	XZ117-28					26	29										
9	XZ117-28						14										

REVISIONS		
ISSUE	DATE	AUTH. NO.
1	9-17-64	15790-R
2	4-5-65	85534
3	8-11-65	84513
4	10-8-65	88904
5	11-8-65	88910

NOTE: REVISION INFORMATION MUST ALSO BE REFLECTED ON THE ISSUE CONTROL RECORD.

SHEET 10 OF 18
 304100 CONTROL MODULE ASSEM.

35A-1
 LINE CONTROLLER
 FOR
 SAI DATA SELECTIVE
 CALLING SYSTEM

APPROVALS

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

E-NUMBER

PROD. NO. 715 OWD - W10

DATE 3-24-64

P.D. FILE NO. 43-A25AA

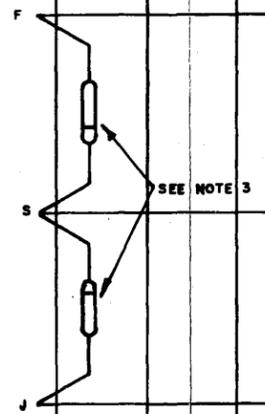
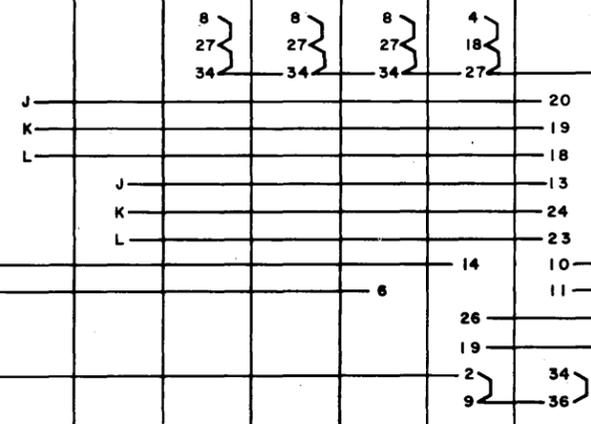
DRAWN H.D.S. CHKD. *[Signature]*

ENGD. J.A.J. APPD. *[Signature]*

TELETYPE CORPORATION

715 OWD-W10

NO.	NOTES	OTHER END TERMINATION		COMP.	CONNECTOR		CONNECTOR		OTHER END TERMINATION						
					XZ311	XZ411							XZ312	XZ313	
1.	ALL LEADS 24 GAUGE GREEN UNLESS OTHERWISE SPECIFIED.			COMP. DESIG.											
2.	ALL STRAPPING 24 AWG BARE	PAGE	UNIT/TERM.	ASSOC. ASSEM.	177549	177549	303671	303671	303671	303671	303652	303653	177585	177585	
3.	COVER LEADS WITH 60020 RM TUBING.			COMP. NO.			304144	148440	148440	148440	148440	148440	148440	304144	



8 XZ117-25
8 XZ120-1
10 XZ125-25

REVISIONS		
ISSUE	DATE	AUTH. NO.
1	9-17-64	15790-R
2	8-20-65	85514-1
3	9-8-65	84555
4	10-8-65	88904
5	3-8-66	88931

UNIT / TERM.	PAGE
XZ319-28	13
XZ322-16	13
XZ322-7	13
XZ321-5	13
XZ316-29	11
XZ319-21	13

NOTE:
REVISION INFORMATION MUST ALSO BE REFLECTED ON THE ISSUE CONTROL RECORD.

SHEET 12 OF 18
304100 CONTROL MODULE ASSEM

35A-1
LINE CONTROLLER
FOR
BAI DATA SELECTIVE
CALLING SYSTEM

APPROVALS	
D AND R <i>HAK</i>	E OF M <i>CM</i>
E-NUMBER	
PROD NO. 7150WD-W12	
DATE 3-21-64	
P.D. FILE NO. 49-A25AA	
DRAWN H.D.S.	CHKD. <i>[Signature]</i>
ENGD J.A.J.	APPD.

TELETYPE CORPORATION

7150WD-W12

7150WD-W13

NO.	NOTES	OTHER END TERMINATION	COMP	COMP DESIG.	CONNECTOR	CONNECTOR	CONNECTOR	CONNECTOR	CONNECTOR		CONNECTOR	CONNECTOR	OTHER END TERMINATION	
									XZ319	XZ320				XZ321
1.	ALL LEADS 24 GA. GREEN UNLESS OTHERWISE SPECIFIED.													
2.	WIRE COLOR CODE KEY: BK - BLACK BR - BROWN BL - BLUE O - ORANGE R - RED	PAGE	UNIT / TERM.	ASSOC. ASSEM. COMP NO.	303671	303671	303671	303652	177585	177555	303671	303671	UNIT / TERM	PAGE
3.	ALL STRAPPINGS 24 AWG BARE				148440	148440	148440	148440	304144	148440	148440			
11	XZ318-C				3	3	3 BK	9 BK	C BK		3	3 BK	XZ228-E	10
11	XZ318-N		BL		11	11	11 BL	1 BL	N BL		11	11 BL	XZ228-J	10
11	XZ318-P		R		10	10	10 R	2 R	P R		10	10 R	XZ228-F	10
11	XZ318-R		O		16	16	16 O	12 O	R O		16	16 O	XZ228-M	10
11	XZ317-16				1	32					5		XZ117-33	9
11	XZ317-15					12	7				4		XZ120-26	9
11	XZ317-35				29	24	17							
11	XZ317-27						26	30			17			
11	XZ314-9										8	12		
11	XZ317-28					26		4			26			
11	XZ312-26				19	17		11				4	XZ316-6	11
11	XZ313-30				5	7		17				27		
11	XZ313-36					29	1				32	9	XZ316-7	11
11	XZ313-26				19		5	10			2	25		
11	XZ314-30				5			13			18			
11	XZ314-35						29	31					XZ418-F	12
11	XZ314-26						19							
12	XZ418-L				28	28	28	26						
					18	18	18	36			22	2		
					4	4	4	35			1	18		
12	XZ317-3							16						
12	XZ315-19							7						
10	XZ128-K							6	B				XZ125-6	10
11	XZ317-14				14	13		6			14		XZ125-36	10
					21	22		24			19			
11	XZ316-25						35					28		
11	XZ315-8								L		27	34		
11	XZ317-30										23		XZ316-5	11
					6	6	6	5				29		
					20	20	20	21				35		
					23	23	23					13		
					25	25	25	34	M					
					33	31	31				31	8		
						33	33		A		33			
10	XZ228-H				8			33			12	14		
11	XZ316-4				27						13	19		
					34	34	2	18			30			
11	XZ316-3					8	27	25				26		
					12	27	34					24		
					24	13						17		
					13	22						5		
					22	35								
					32			19					XZ317-6	11
					35			20					XZ317-7	11
					7								XZ317-26	11
					17		12							
					26		24							
12	XZ418-J				21		21						XZ317-25	11
					14			27					XZ113-2	8
					2			29					XZ122-8	10
					9	30	30	8					XZ123-27	10
11	XZ316-16					2	9							

REVISIONS		
ISSUE	DATE	AUTH NO
1	9-17-64	15790-R
2	8-11-65	84513
3	8-20-65	89514-1
4	10-8-65	88904
5	11-8-65	88910
6	11-16-65	88912
	3-8-66	88931

NOTE: REVISION INFORMATION MUST ALSO BE REFLECTED ON THE ISSUE CONTROL RECORD.

SHEET 13 OF 18

304100 CONTROL MODULE ASSEM.

35A-1
LINE CONTROLLER
FOR
BAI DATA SELECTIVE
CALLING SYSTEM

APPROVALS
D AND R: *AK* E OF M: *AK*

E-NUMBER
PROD. NO. 7150WD-W13
DATE 3-25-64
P.D. FILE NO. 43-A25AA
DRAWN E. R. CHKD.
ENGD J. A. J. APPD.

TELETYPE CORPORATION
7150WD-W13

NO.	NOTES	OTHER END TERMINATION		COMP. DESIG.	CONNECTOR	CONNECTOR	CONNECTOR	TERMINALS	CONNECTOR	CONNECTOR	RELAY	RELAY	RELAY	RELAY	RELAY	CONNECTOR	TERMINALS	OTHER END TERMINATION		
		PAGE	UNIT / TERM.															UNIT / TERM	PAGE	
1.	ALL LEADS 24 GAUGE GREEN UNLESS OTHERWISE SPECIFIED.			COMP. DESIG.	S1*	XD1	XD2	Ø2	XD1	XD2	NR5	NR4	NR3	NR2	NR1	S2*	PPG			
2.	WIRE COLOR CODE KEY BK - BLACK BR - BROWN BL - BLUE O - ORANGE R - RED			ASSOC. ASSEM. COMP. NO.	193029	304142	304142	193185	304142	304142	304143	304143	304143	304143	304143	193029				
3.	* - INDICATES TERMINALS TO BE SOLDERED OR CONNECTORS WITH SOLDER TERMINALS.																			
4.	ROUTE WIRES TO PPG THRU THE 162864 CABLE CLAMP IN THE MODULE.																			
5.	ALL 18 GA WIRE BLACK UNLESS OTHERWISE SPECIFIED.																			

REVISIONS		
ISSUE	DATE	AUTH. NO.
1	9-17-64	15790-R
2	9-8-65	84555
3	10-8-65	88904

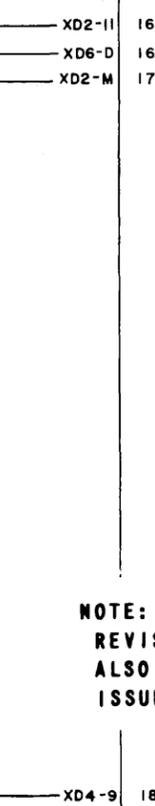
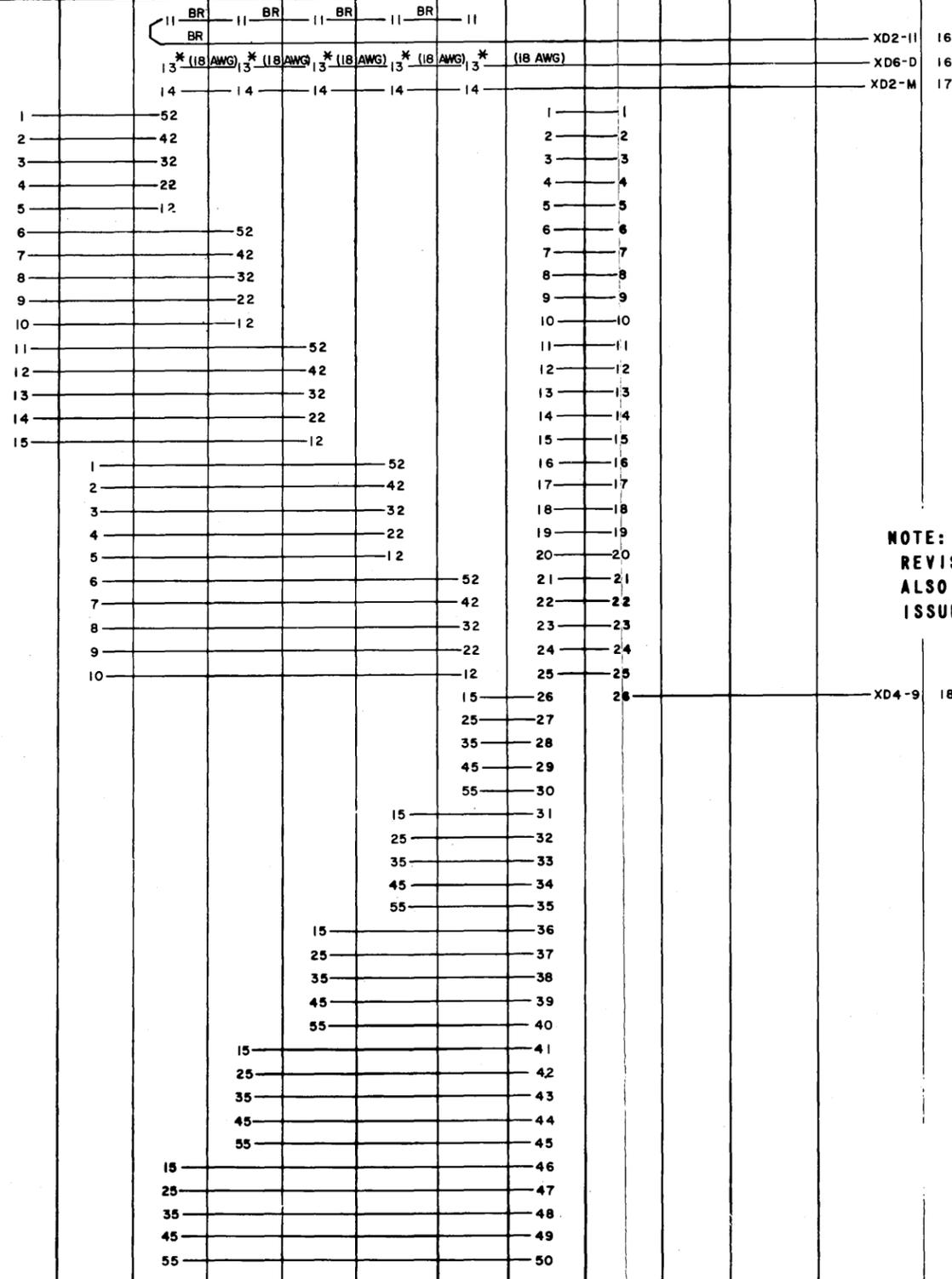
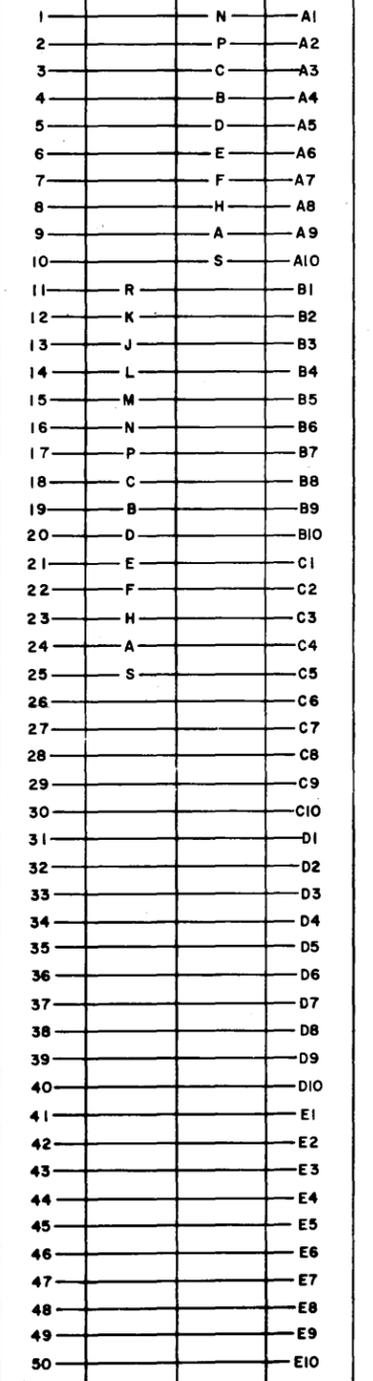
NOTE:
REVISION INFORMATION MUST ALSO BE REFLECTED ON THE ISSUE CONTROL RECORD.

SHEET 14 OF 18
304100 CONTROL MODULE ASSEM.

35A-1
LINE CONTROLLER
FOR
8AI DATA SELECTIVE
CALLING SYSTEM

APPROVALS	
D AND R <i>HJK</i>	E OF M <i>cr</i>
E-NUMBER	
PROD. NO. 7150WD-W14	
DATE 3-25-64	
P.D. FILE NO. 43-A25AA	
DRAWN H.D.S.	CHKD. <i>[Signature]</i>
ENGD. J.A.J.	APPD.

TELETYPE CORPORATION
7150WD-W14



NO.	NOTES	OTHER END TERMINATION		COMP. DESIG.	MODULE GROUND LUG*	TERMINALS	CONNECTOR	CONNECTOR	TRANSISTOR	CONNECTOR	RELAY	OTHER END TERMINATION																
		PAGE	UNIT / TERM.																	UNIT / TERM.	PAGE							
1.	ALL LEADS 24 GAUGE GREEN UNLESS OTHERWISE SPECIFIED.																											
2.	WIRE COLOR CODE KEY BK - BLACK BR - BROWN BL - BLUE O - ORANGE R - RED																											
3.	* - INDICATES TERMINALS TO BE SOLDERED OR CONNECTORS WITH SOLDER TERMINALS.																											
4.	<p>COVER LEADS WITH 60020RM TUBING.</p> <table border="1"> <tr><td>TERM. A</td><td>TERM. B</td></tr> <tr><td>L</td><td>U</td></tr> <tr><td>IU</td><td>2U</td></tr> <tr><td>IL</td><td>2L</td></tr> </table> <p>INSTALL DIODES & NETWORKS SO AS NOT TO PROJECT BEYOND THE PLANE OF THE RELAY TERMINALS.</p>	TERM. A	TERM. B	L	U	IU	2U	IL	2L																			
TERM. A	TERM. B																											
L	U																											
IU	2U																											
IL	2L																											
5.	ALL 18 GA WIRE BLACK UNLESS OTHERWISE SPECIFIED.																											

REVISIONS		
ISSUE	DATE	AUTH NO
1	9-17-64	15790-R
2	9-8-65	84555
3	9-9-65	87498-3
4	10-8-65	88904
5	11-8-65	88910
6	5-10-66	88933

NOTE: REVISION INFORMATION MUST ALSO BE REFLECTED ON THE ISSUE CONTROL RECORD.

35A-1
LINE CONTROLLER
FOR
8AI DATA SELECTIVE
CALLING SYSTEM

APPROVALS	
D AND R	E OF M
E-NUMBER	
PROD NO. 7150WD-W16	
DATE 3-21-64	
P.D. FILE NO. 43-A25AA	
DRAWN H.D.S.	CHKD.
ENGD J.A.J.	APPD.

TELETYPE CORPORATION

CONTACT PROTECTION
(SEE NOTE 4)

181654 181654 181654 153631 153631 181654 181654 181654 181654 153631

7151 WD

REVISIONS

ISSUE	DATE	AUTH. NO.
2	8-24-66	88949

NOTES

1.) WIRE ARCS 3 THRU 10 THE SAME AS ARCS 1 AND 2 USING SAME COLOR CODE SHOWN ON WIRING DIAGRAM AND ACCORDING TO THE FOLLOWING LIST :

CONNECTOR - NUMBER	ARC - NUMBER	ARC - NUMBER	ARC - NUMBER
S2	26 - 50	3	1 - 25
S2	1 - 25	4	1 - 25
S3	26 - 50	5	1 - 25
S3	1 - 25	6	1 - 25
S4	26 - 50	7	1 - 25
S4	1 - 25	8	1 - 25
S5	26 - 50	9	1 - 25
S5	1 - 25	10	1 - 25

2.) ATTACH TWO NETWORKS AND TWO DIODES AS SHOWN IN FIGURE 4. TAPE NETWORKS AND DIODES TOGETHER WITH 79122RM TAPE.

FIGURE 4

MAGNET TERMINAL NUMBERING, DIODE AND NETWORK PLACEMENT

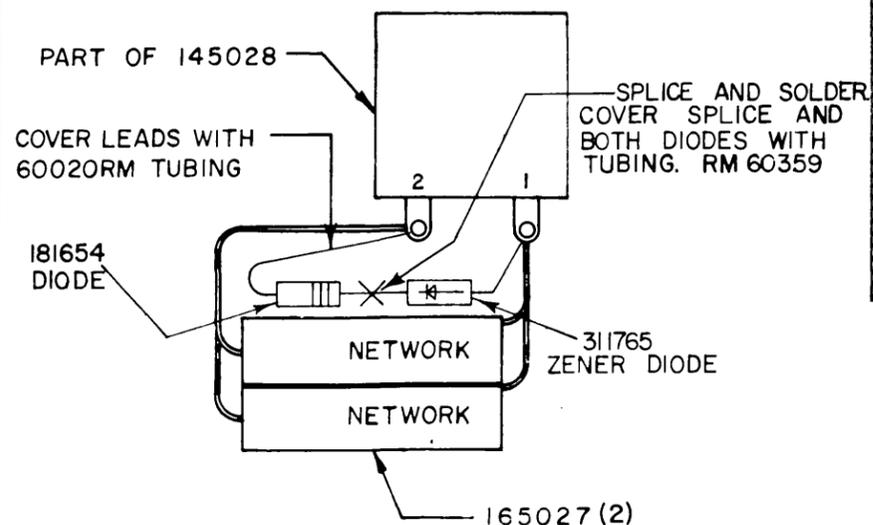


FIGURE 1
STEPPING SWITCH ARC
TERMINAL NUMBERING
(PART OF 145028)

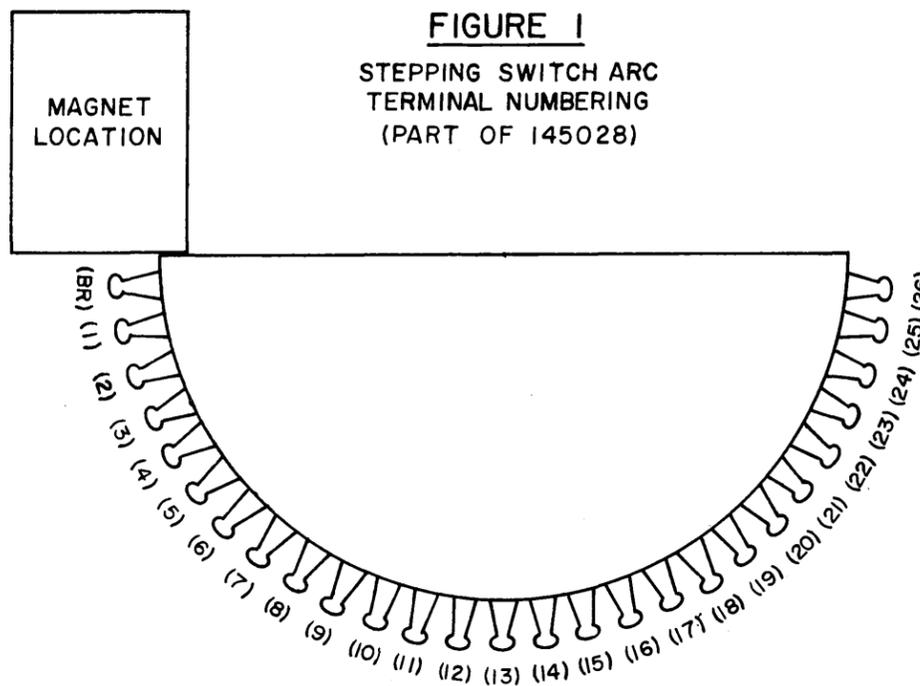


FIGURE 3
STEPPING SWITCH
ARC NUMBERING
(PART OF 145028)

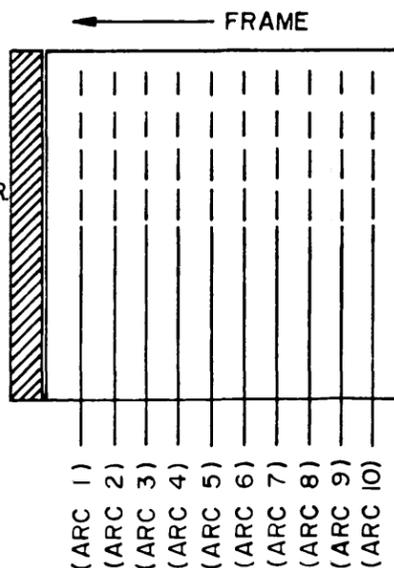


FIGURE 6
50 POSITION CONNECTOR
(REAR VIEW)
193028

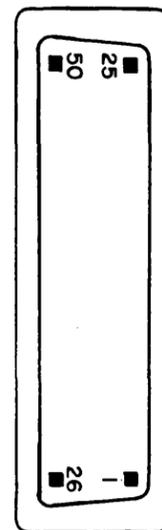


FIGURE 2
STEPPING SWITCH
O.N. CONTACTS
(PART OF 145028)

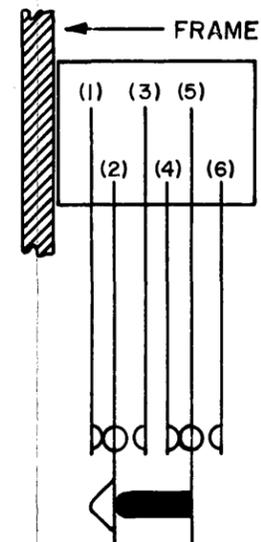
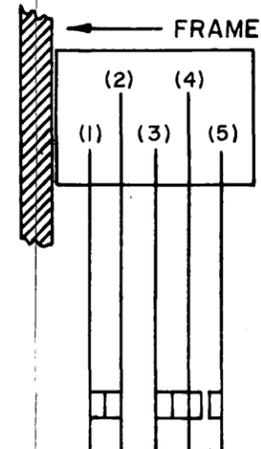


FIGURE 5
STEPPING SWITCH
"INT" CONTACTS
(PART OF 145028)



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

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

SHEET 1 OF 3

STEPPING SWITCH MODULE WIRING

APPROVALS

AND R EOPM
E-NUMBER
PROD. NO. 7151 WD

DATE: 12-12-63
P.D. FILE NO. 43-A25AA
DRAWN. HDS CHKD. JAJ
ENGD. JAJ APPD. JAJ

TELETYPE CORPORATION

7151 WD

NO.	NOTES	COMP.	CONN.	STEP SWITCH	←												STEP SWITCH
		COMP. DESIG.	S8	O.N.	INT.	MAG.	ARC 1	ARC 2	ARC 3	ARC 4	ARC 5	ARC 6	ARC 7	ARC 8	ARC 9	ARC 10	
		ASSOC. ASSEM.	304126	304126	←												304126
		COMP. NO.	193028	145028	←												145028
			26 BK-BL		1												
			27 BK-G		2												
			45 BK-R		1												
			46 R-O		2												
			47 K-S		3												
			48 R-BR		4												
			49 O-G		5												
			50 O-S		6												
			28 O-BR		1												
			29 BK-S		2												
			30 BK-BR		3												
			G-S { 38 BL-S		4												
			31 BL-S		4												
			G-S { 39 BL-G		5												
			32 BL-G		5												
			G-S { 36 W														
			1 W														
			G-S { 37 W														
			2 W														
			3 W														
			4 W														
			5 W														
			6 W														
			7 W														
			8 W														
			9 W														
			10 W														
			16 BR-Y														
			17 BR-Y														
			18 BR-Y														
			19 BR-Y														
			20 BR-Y														
			21 BR-Y														

SEE NOTE 2 (SHEET 1)

7151 WD		
REVISIONS		
ISSUE	DATE	AUTH NO.

SHEET 2 OF 3

STEPPING SWITCH MODULE WIRING

APPROVALS	
D AND R	E OF M
<i>[Signature]</i>	<i>[Signature]</i>
E-NUMBER	
PROD. NO. 7151 WD	
DATE 12-12-63	
P.D. FILE NO 43-A25AA	
DRAWN HDS	CHKD. <i>[Signature]</i>
ENGD JAJ	APPD. <i>[Signature]</i>
TELETYPE CORPORATION	
7151 WD	

7151 WD

REVISIONS

ISSUE	DATE	AUTH NO

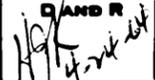
ISSUE	DATE	AUTH NO

SEE NOTE 1 (SHEET 1) AND TABLE FOR WIRING OF OTHER ARCS AND CONNECTORS.

SHEET 3 OF 3

STEPPING SWITCH MODULE WIRING

APPROVALS

 J. J. J. ENGINEER	 R. M. M. ELECTRICIAN
DRAWING NO. 7151 WD	

DATE	12-12-63
PD. FILE NO	43-A25AA
DRAWN HDS	CHKD 
ENGR JAJ	APPD 

TELETYPE CORPORATION

7151 WD

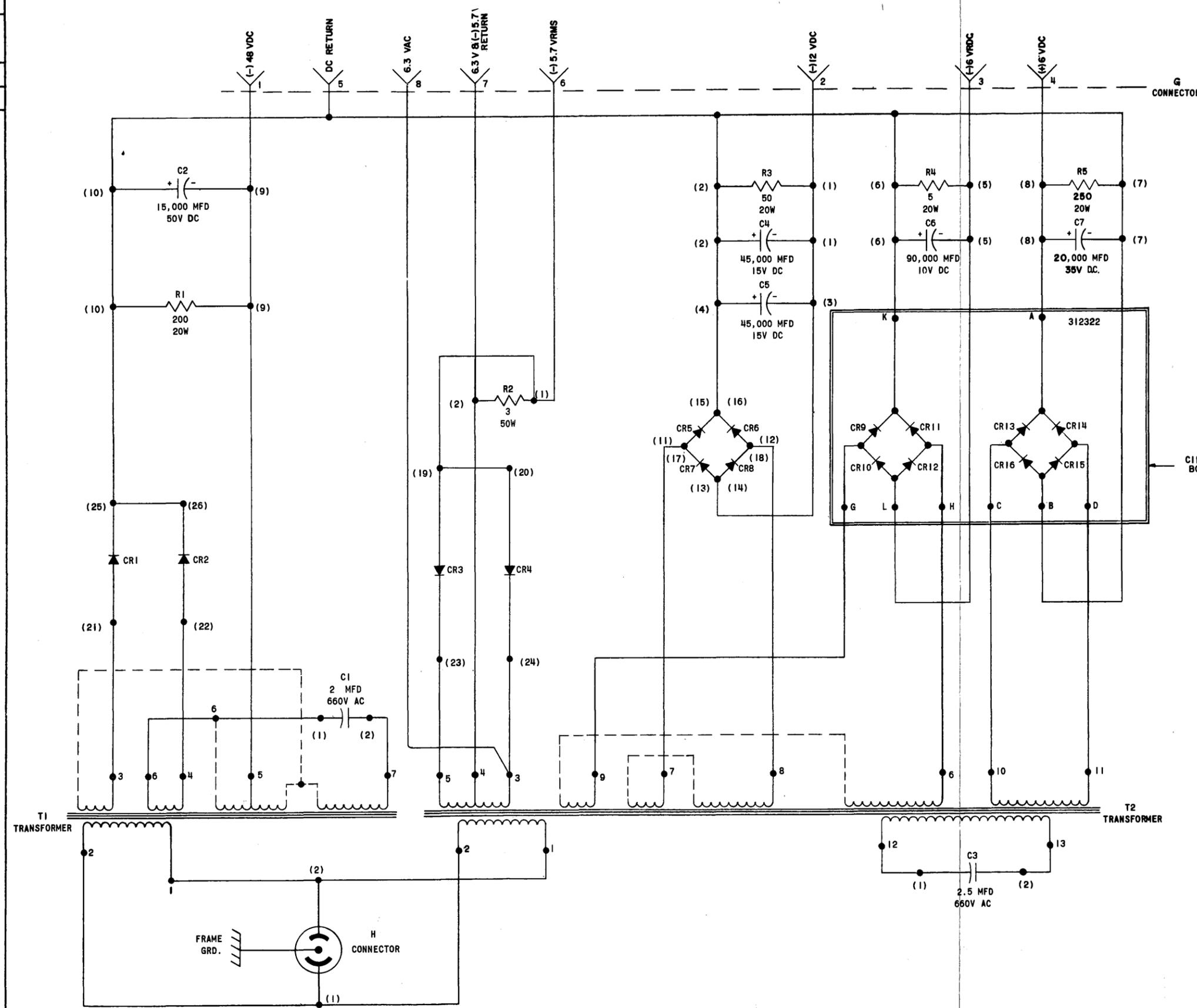
NO.	NOTES	COMP	STEP SWITCH	CONN.	STEP SWITCH	CONN.
		COMP DESIG.	ARC 2	S 1	ARC 1	S 1
		ASSOC. ASSEM.	304126	304126	304126	304126
		COMP. NO.	145028	193028	145028	193028
			1 — BK — 1		1 — BK — 26	
			2 — O — 2		2 — O — 27	
			3 — BL — 3		3 — BL — 28	
			4 — Y — 4		4 — Y — 29	
			5 — P — 5		5 — P — 30	
			6 — G — 6		6 — G — 31	
			7 — R — 7		7 — R — 32	
			8 — S — 8		8 — S — 33	
			9 — BR — 9		9 — BR — 34	
			10 — W-BK — 10		10 — W-BK — 35	
			11 — W-O — 11		11 — W-O — 36	
			12 — W-BL — 12		12 — W-BL — 37	
			13 — W-Y — 13		13 — W-Y — 38	
			14 — W-P — 14		14 — W-P — 39	
			15 — W-G — 15		15 — W-G — 40	
			16 — W-R — 16		16 — W-R — 41	
			17 — W-S — 17		17 — W-S — 42	
			18 — W-BR — 18		18 — W-BR — 43	
			19 — Y-G — 19		19 — Y-G — 44	
			20 — BK-Y — 20		20 — BK-Y — 45	
			21 — R-BL — 21		21 — R-BL — 46	
			22 — R-G — 22		22 — R-G — 47	
			23 — R-Y — 23		23 — R-Y — 48	
			24 — BR-BL — 24		24 — BR-BL — 49	
			25 — BR-G — 25		25 — BR-G — 50	

7270WD

REVISIONS

ISSUE	DATE	AUTH. NO.
1	7-6-65	17122-R
2	8-24-66	88948
3	11-14-68	97894

- NO. NOTES**
- REFER TO 7271WD FOR ACTUAL WIRING DIAGRAM.
 - TERMINAL DESIGNATIONS IN PARENTHESES ARE FOR REFERENCE AND ARE NOT MARKED ON COMPONENT.
 - ALL RESISTANCE VALUES IN OHMS.
 - DOTTED LINE INDICATES INTERNAL STRAP.



SCHEMATIC
WIRING DIAGRAM
FOR
304102 POWER SUPPLY
FOR
35A LINE CONTROLLER

APPROVALS

D AND R <i>[Signature]</i>	E OF M <i>[Signature]</i>
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E-NUMBER
PROD. NO. 7270WD

DATE 4-9-65

R.D. FILE NO. 43-A25AA

DRAWN R.E.L. R.W.D.	CHKD. <i>[Signature]</i>
ENDD. D.A.B.	APPD. <i>[Signature]</i>

TELETYPE CORPORATION

7270WD

727IWD

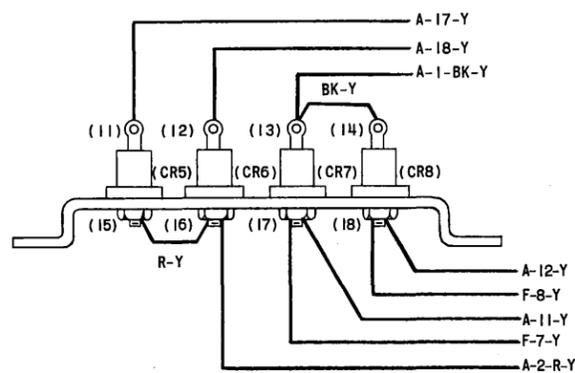
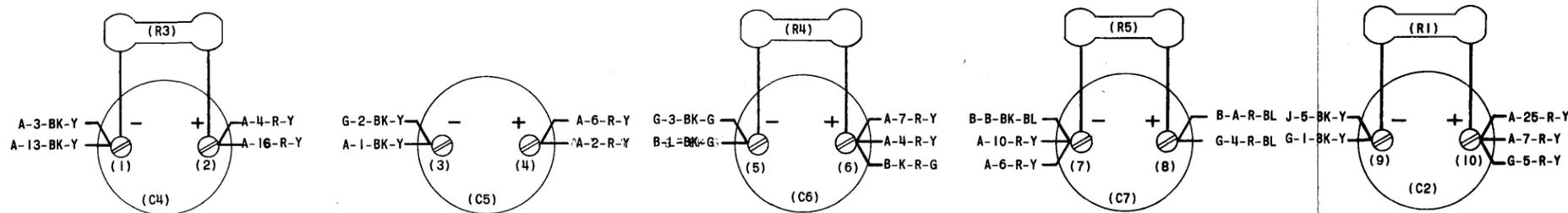
REVISIONS

ISSUE	DATE	AUTH. NO.
1	7-6-65	17122-R
2	8-24-66	88948

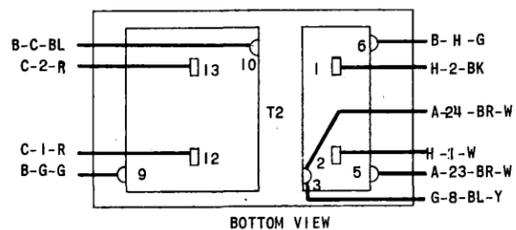
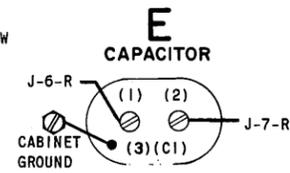
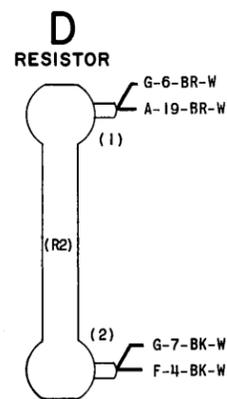
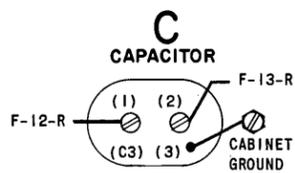
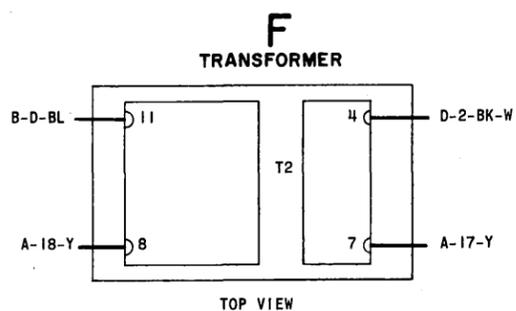
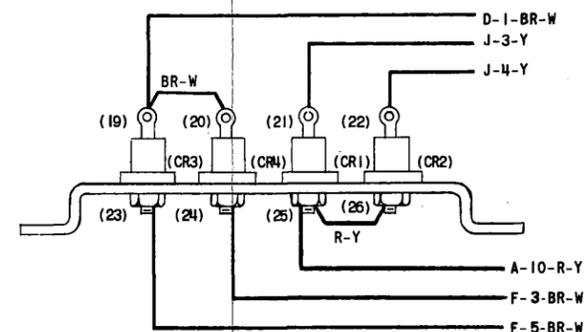
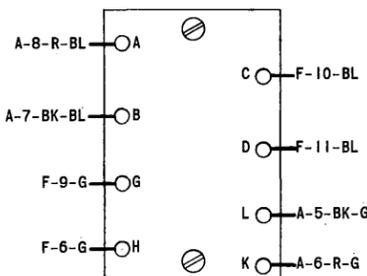
- NO. NOTES**
- WIRING LEGEND:**
 - COLOR CODE:**

BK - BLACK	G - GREEN
BL - BLUE	P - PURPLE
BR - BROWN	W - WHITE
R - RED	O - ORANGE
S - SLATE	Y - YELLOW
 - TERMINAL DESIGNATIONS ENCLOSED IN PARENTHESES ARE FOR REFERENCE ONLY AND ARE NOT MARKED ON COMPONENT.**
 - ALL COMPONENTS VIEWED FROM THE SOLDERED SIDE.**
 -
 - REFER TO 7270WD FOR SCHEMATIC.**

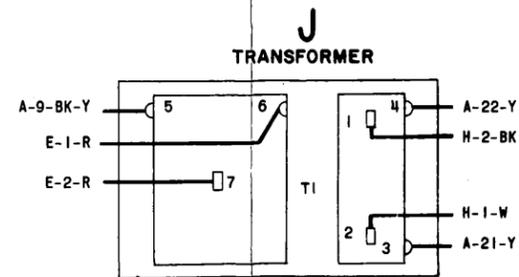
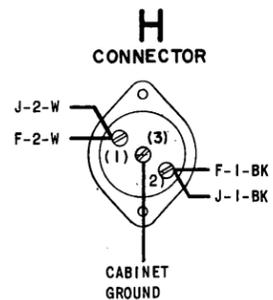
A DIODE & CAPACITOR ASSEMBLY



B CIRCUIT CARD



F-3-BL-Y	8	16
D-2-BK-W	7	15
D-1-BR-W	6	14
A-10-R-Y	5	13
A-8-R-BL	4	12
A-5-BK-G	3	11
A-3-BK-Y	2	10
A-9-BK-Y	1	9



ACTUAL
WIRING DIAGRAM
FOR
304102 POWER SUPPLY
FOR
35A LINE CONTROLLER

APPROVALS

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

PROD. NO. 727IWD

DATE 4/28/65

R.D. FILE NO. 43-A25AA

DRAWN RWD

CHKD. *[Signature]*

ENGD. DAB

APPD. *[Signature]*

TELETYPE
CORPORATION

727IWD

ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED.

SERVICE ASSEMBLY

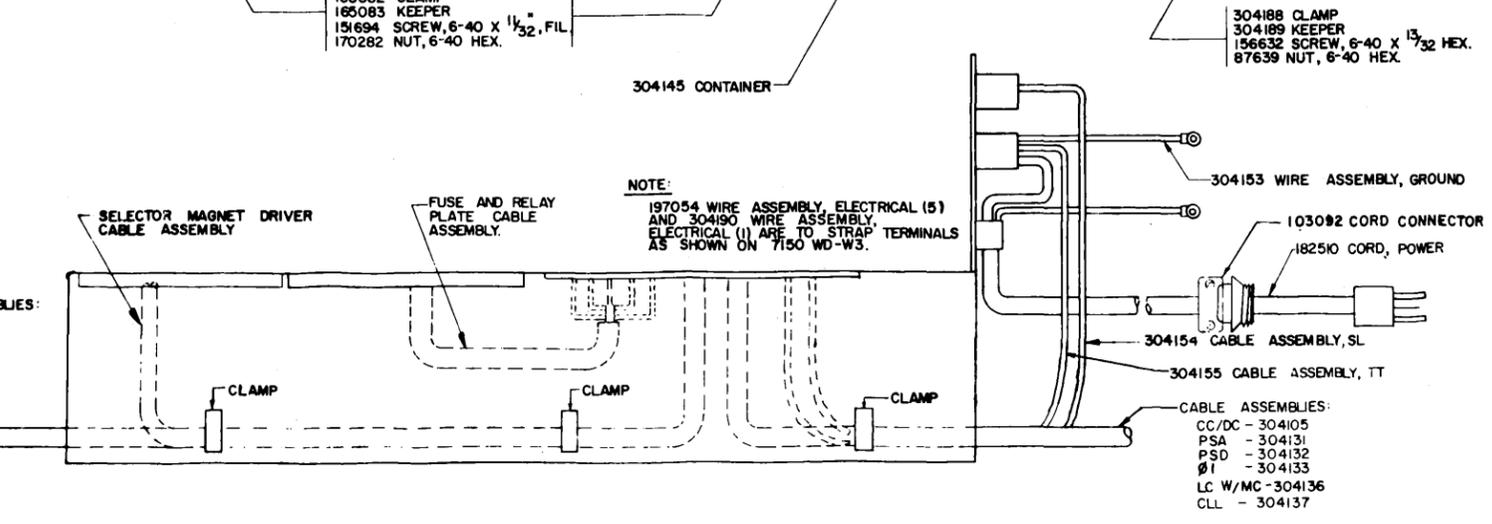
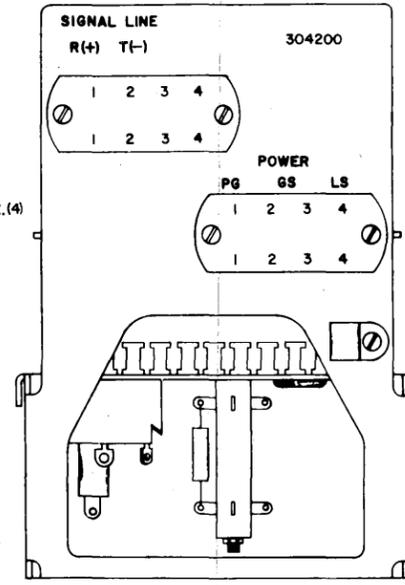
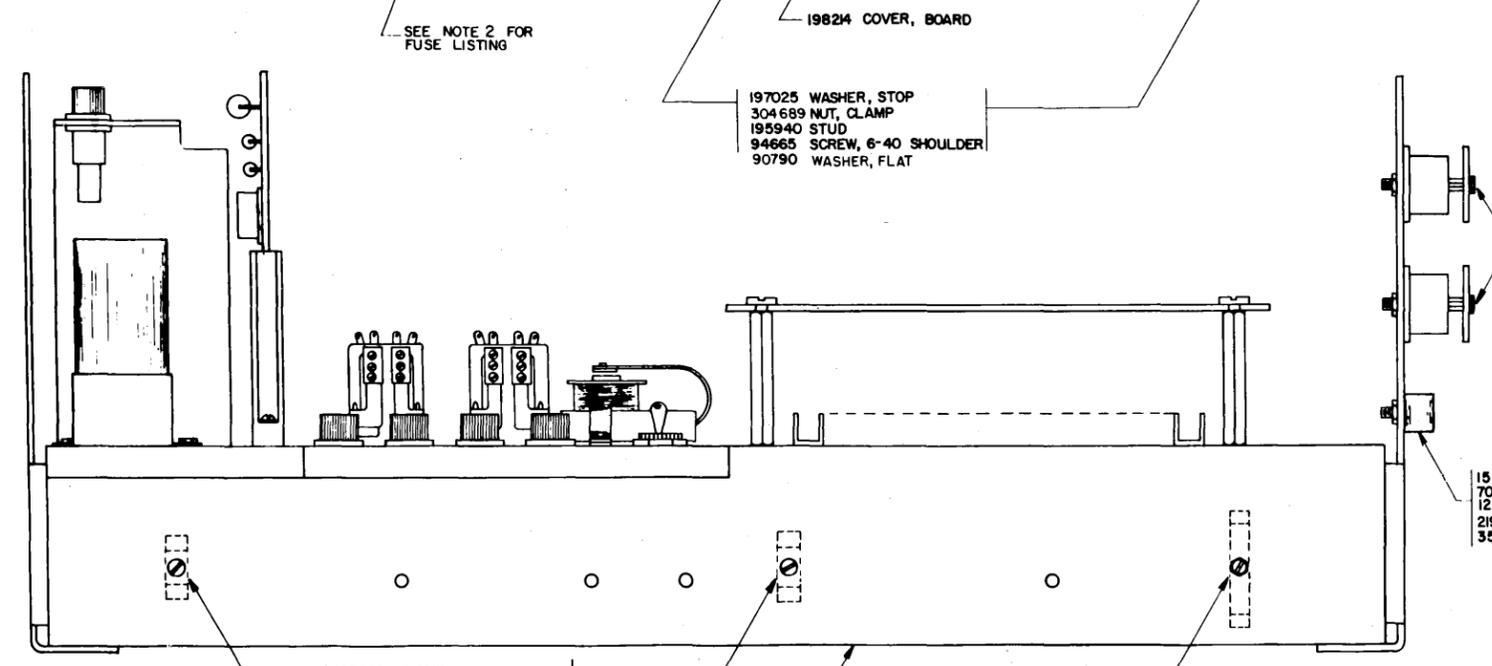
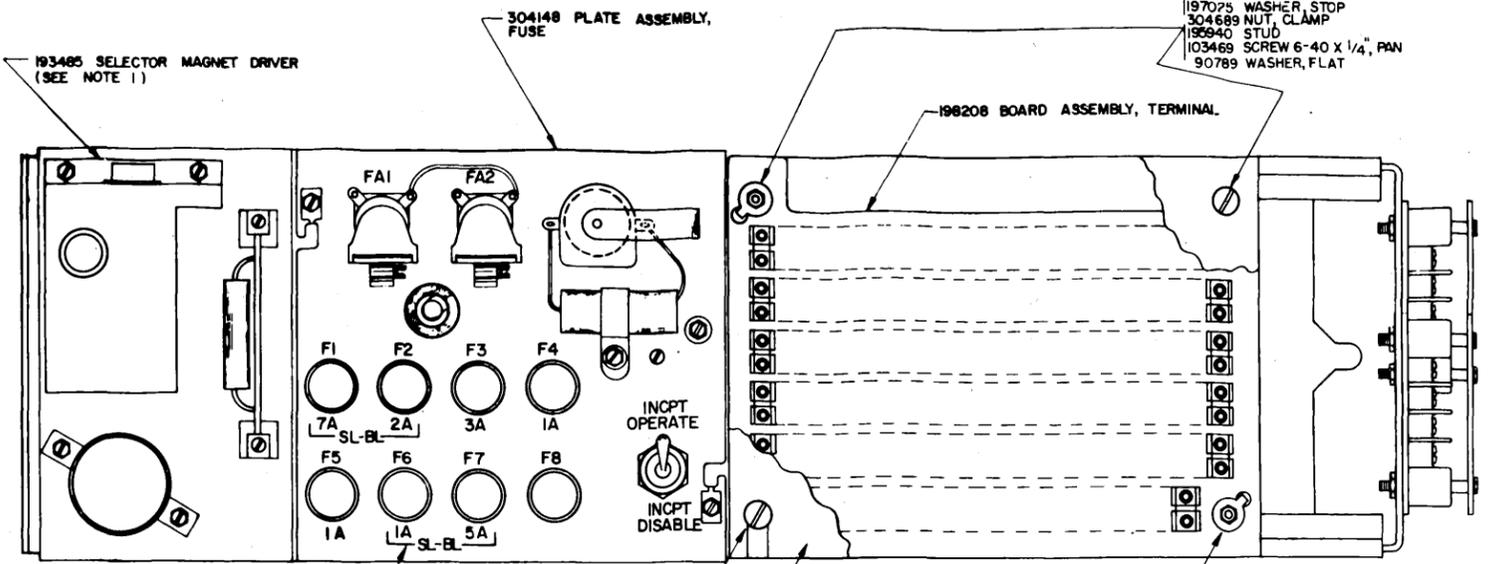
304200

PARTS	QTY	DESCRIPTION	QTY	DESCRIPTION	QTY	DESCRIPTION	QTY	DESCRIPTION
197025	1	WASHER STOP	1	197025	1	WASHER STOP	1	197025
304689	1	NUT, CLAMP	1	304689	1	NUT, CLAMP	1	304689
195940	1	STUD	1	195940	1	STUD	1	195940
103469	1	SCREW 6-40 X 1/4", PAN	1	103469	1	SCREW 6-40 X 1/4", PAN	1	103469
90789	1	WASHER, FLAT	1	90789	1	WASHER, FLAT	1	90789

NO B/M

REV	DATE	AUTH	APP
1	10-25-61		
2	10-25-61		
3	10-25-61		
4	10-25-61		
5	10-25-61		
6	10-25-61		
7	8-9-66		
8	8-24-68		
9	8-9-68		
10	1-29-69		

PLACE ASTERISKED ITEMS IN MUSLIN BAG AND TIE TO ASSEMBLY.



NOTES:

1. REMOVE STRAP BETWEEN TERMINALS "H" AND "R" ON SELECTOR MAGNET DRIVER CARD CONNECTOR.

2. FUSE LISTING:
F1 - 304104 F5 - 115358
F2 - 142709 F6 - 143306
F3 - 171658 F7 - 129920
F4 - 115358 F8 - NONE

3. WIRE PER 7150WD

SCALE	APPROX TO SCALE	STOCK SPECIFICATION
ASSEMBLY	TELETYPE	304200

APPROVALS
TELETYPE
304200