

SHEET INDEX

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101 102 103 104	TRANSMIT GATE CIRCUIT CHANNEL UNIT LOGIC OFFICE LOSS ATTENUATOR TRUNK LOSS ATTENUATOR	3

CIRCUIT NOTES (CONT):

111. SET AT2 [T&R] BY EXPOSING THE DESIGNATIONS AS SHOWN IN THE FOLLOWING TABLE. THE NEAR AND FAR END ARE NORMALLY CONSIDERED TP0. IF THE TOTAL NEAR END AND FAR END DROP LOSS EXCEEDS THE MAXIMUM TRUNK OR LOOP LOSS OBJECTIVE, BOTH THE NEAR AND FAR END MAY BE TREATED AS TP1 OR TP2 IN ACCORDANCE WITH THE LATEST ENGINEERING PRACTICES. SEE CD SECTION 11, 1.15 TO 1.19

FAR END BANK	D3	NEAR AND FAR END TP		
		TP0	TP1	TP2
	D1D	21	11	-
		11, 21	NA	NA

NA-NOT APPLICABLE

112. OPTION (X) IS A STRAP WHICH MAY BE APPLIED IN THE FIELD TO PREVENT PREMATURE TRIPPING DURING THE RINGING INTERVAL WITH CERTAIN PBX TRUNK CIRCUITS. THE MAXIMUM EXTERNAL RESISTANCE FOR RINGING TRIP IS 1000 OHMS. BEYOND THIS RANGE, TRIPPING WILL OCCUR DURING THE SILENT PERIOD ONLY.
113. OPTION (V) REMOVES THE RESTRICTIONS OF NOTE 112.

EQUIPMENT NOTES:

201. DESIRED OPTION SHALL BE COMPLETED BY TIGHTENING SCREW SUFFICIENTLY TO INSURE CONTACT BETWEEN TERMINALS AND UNDERSIDE OF SCREWHEAD. CAUTION IN TIGHTENING SCREW IS RECOMMENDED TO AVOID SHEARING OF SCREW. TO OPEN A CIRCUIT, SCREW SHALL BE LOOSENED APPROXIMATELY FOUR COMPLETE TURNS. UNIT IS NORMALLY FURNISHED WITH OPTION SCREWS UP.
202. DESIGNATIONS SHOWN IN BRACKETS [] SHALL APPEAR ON EQUIPMENT.
203. ALL CONTACTS SHOWN WITH ARROW \rightarrow ARE PART OF PRINTED WIRING BOARD FINGER CONTACTS.
204. DESIGNATIONS SHOWN THUS < > APPEAR ON COMPONENT APPARATUS.
205. OPTION (X) IS A STRAP ACROSS THE TERMINALS OF C5. C5 CAN BE IDENTIFIED AS A CYLINDRICAL CAN WITH A RED DOT ON THE OUTER END MARKED KS-19524, L19, 200 OF, 15V.
206. THE POLARITIES OF C5 AND C8 WERE CHANGED ON ISSUE 3AC.

INFORMATION NOTES:

301. UNLESS OTHERWISE SPECIFIED:
ALL RESISTANCE VALUES ARE IN OHMS;
ALL CAPACITANCE VALUES ARE IN MICROFARADS;
ALL VALUES PRECEDED BY + (PLUS) OR - (MINUS) ARE IN VOLTS.
302. OFFICE WIRING LIST RECORDS NEED NOT BE MAINTAINED FOR SCREW TYPE OPTIONS.
303. FIGS. 101 THRU 106 ARE FOR INFORMATION ONLY. SEE CONTROLLING SCHEMATIC FOR COMPLETE CIRCUIT DETAILS.

DWG ISSUE	DATE ISSUED	DATE	Drawn	APP'D
1	1	5/15/74	DR	
2B	1	5/15/74	RPP/B	
3AC	1	5/15/74	RPP/B	
4AR	1	8/14/74	RPP/B	

CIRCUIT NOTES:

101. TIGHTEN SCREWS OF NBD (NET BUILD OUT) OPTIONS ACCORDING TO CIRCUIT REQUIREMENTS. CAPACITY OF PRECISION NET CABLE TO MDF AND BEYOND MUST BE ACCOUNTED FOR IF CONNECTED.

102. RECORD OF FIGURES, WIRING, AND APPARATUS CHANGES

CHANGED ON ISS.	IF JOB RECORDS DO NOT SPECIFY	THIS OPTION WAS FURN.	SEE NOTE	USE IN CIRCUIT			
				STD	A&M	MC	SPLC
1	Z, Y	Z		Y		Z	
2B	X	NONE	112, 205	X			
3AC	V, W	V	113	V		W, X	

103. UNLESS OTHERWISE SPECIFIED ALL RESISTORS ARE 254A TYPE-KS-20810, L1A.
104. C1A, C1B, AND C1C ARE COMPONENTS OF A 734C CAPACITOR. C3A, C3B, C3C, C3D AND C3E ARE COMPONENTS OF A 726A CAPACITOR. C4A, C4B, C4C, C4D, C4E AND C4F ARE COMPONENTS OF A 734B CAPACITOR.
105. TIGHTEN SCREW [BB] WHEN CHANNEL UNIT IS CONNECTED TO A TRUNK CIRCUIT WHICH REQUIRES TIP GROUND DURING A CARRIER FAILURE.
106. TIGHTEN [600] AND/OR [900] O:IM COMP NET OPTIONS ACCORDING TO CIRCUIT REQUIREMENTS. LOOSEN BOTH SCREWS WHEN USING EXTERNAL PRECISION NETWORK.
107. THE RPAM, RPAMG, TPAM & TPAMG LEADS SHALL BE KEPT SHORT AND RUN DIRECT TO THE GATES AND FILTERS.
108. FOR CONNECTING INFORMATION SEE APPLICATION SCHEMATIC FOR THE D3 BANK (SD-3C104-v1).
109. THE M44A, M435A AND M621A ARE NOT ADJUSTABLE. REPLACE WHEN THERE IS A MALFUNCTION.
110. SET A11 [D&O] TO BUILD OUT THE LOSS OF THE DROP TO 1.5dB MINIMUM. THE LOSS OF THE ATTENUATOR IS INDICATED BY THE SUM OF THE EXPOSED DIGITS.

RELAY

DESIG	RNG	RG	TG
CODE	M435A	M44A	M621A
OPTION			
	CONT ARR	LOC	CONT ARR
6			EMB
5			EMB
4	EMB	EMB	EMB
3	EMB	EMB	EMB
2	EMB	EMB	EMB
1	EMB	EMB	EMB
COIL	2C9	2C0	2C7

HIGHEST COMPONENT USED ON THIS DWG

C9	CR6	Q13	R40	RV7
NOT USED				
				RV4

CIRCUIT REQUIREMENTS																
APPARATUS			MECH RDU		CIRCUIT PREPARATION				DIRECT CURRENT FLOW REQ			REMARKS				
DESIG	CODE	OPT	CKT FIG.	PATING	BSP FIG	CONT PRESS	ARM TRVL	BLOCK OR INSULATE	TEST CLIP DATA	TEST SEE PREP	TEST WDG		TEST FOR	AFTER SOAK MA	TEST MA	REAR J M1
RELAYS									CONN DAT	CONN GRO						
RNG	M435A		1		101				1U	1L	B/G		0		13	
RG	M44A		1		101				1U	1L	B/G		0		16.8	
TG	M621A		1		20G				1U	1L	B/G		0		14	
												PLS			1.3	

SUPPORTING INFORMATION

CATEGORY	NO.
EQUIPMENT DRAWING TRANSMIT GATE	J9871880-() ED-3C414-30

ISSUE 4AR

SD-3C125-01 1N22

AT&T CO STANDARD

COMMON SYSTEMS
24 CHANNEL PCM BANK TYPE D3
FOREIGN EXCHANGE
CHANNEL UNIT CIRCUIT
STATION END

(FX-STA) 2

SD-3C125-01-1

3 SHEETS

BELL TELEPHONE LABORATORIES INCORPORATED

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OUTSIDE DIMENSIONS

FIG. 1
FOREIGN EXCHANGE STATION END
CHANNEL UNIT

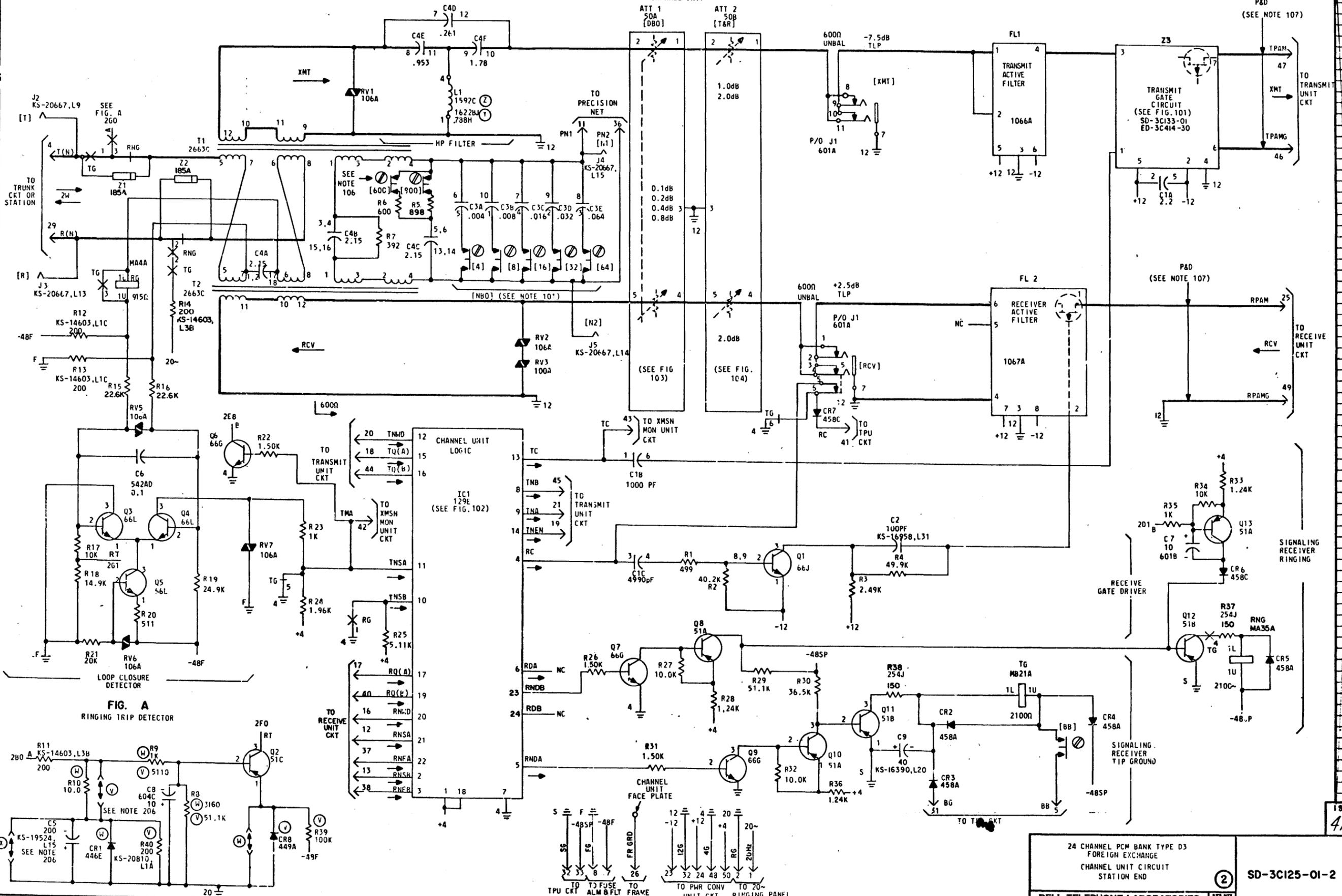
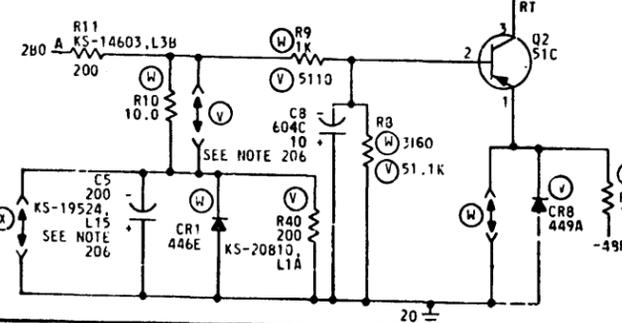


FIG. A
RINGING TRIP DETECTOR



BELL SYSTEM TELEPHONE LABORATORIES
 NOT FOR REPRODUCTION OR
 OUTSIDE DISTRIBUTION

ISSUE
4AR

SD-3C125-01-2

DRAWING
ISSUE
L2

A
B
C
D
E
F
G
H

ISSUE
AAR

FIG. 101
TRANSMIT GATE CIRCUIT

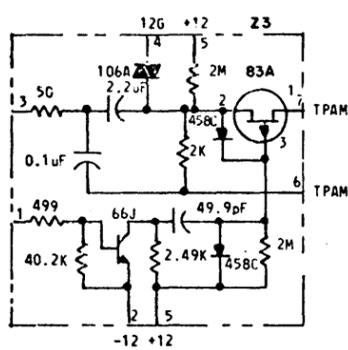


FIG. 102
CHANNEL UNIT LOGIC

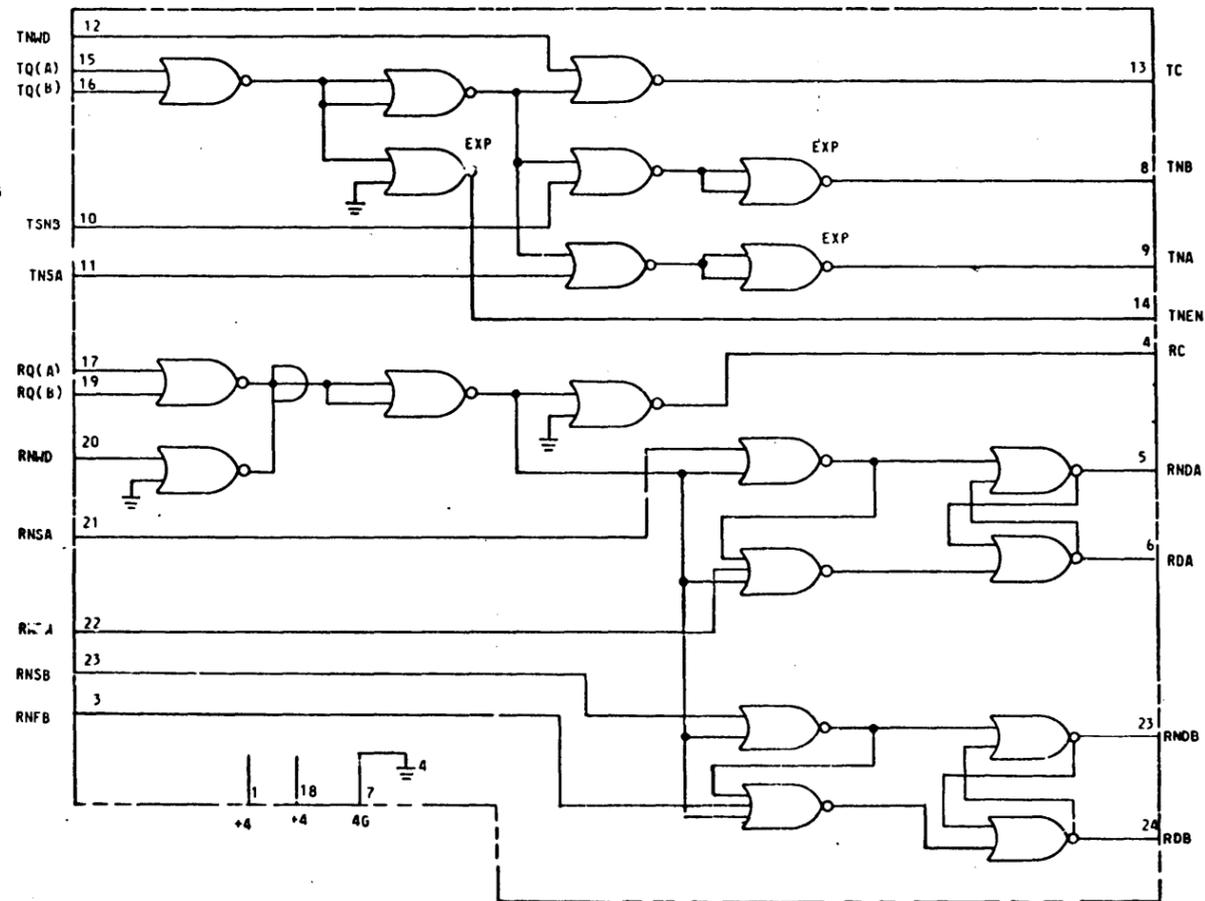


FIG. 103
DBO ATTENUATOR

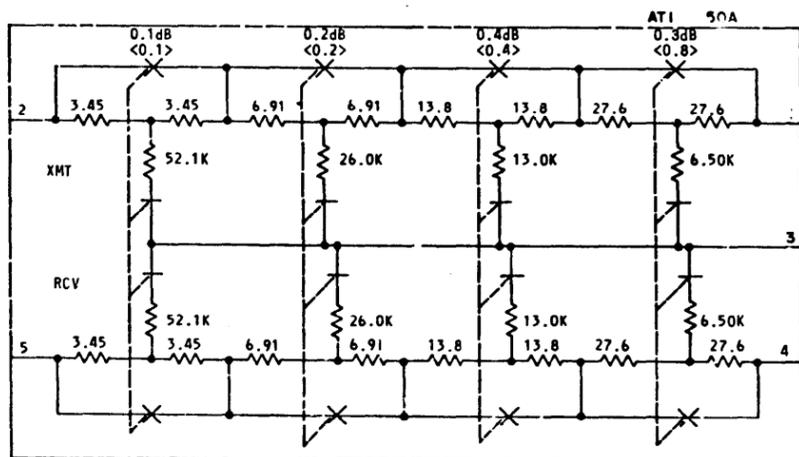


FIG. 104
T&R ATTENUATOR

