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- EQUIPMENT NOTES:**
- DESIRED OPTION SHALL BE COMPLETED BY TIGHTENING SCREW SUFFICIENTLY TO INSURE CONTACT BETWEEN TERMINALS AND UNDERSIDE OF SCREWHEAD. CAUTION IS RECOMMENDED TO AVOID SHEARING OF SCREW. TO OPEN A CIRCUIT, SCREW SHALL BE LOOSENEED APPROXIMATELY FOUR COMPLETE TURNS. UNIT IS NORMALLY FURNISHED WITH OPTION SCREWS DOWN.
  - DESIGNATIONS SHOWN IN BRACKETS [ ] SHALL APPEAR ON EQUIPMENT.
  - ALL CONTACTS SHOWN WITH  $\rightarrow$  50 ARE PART OF PRINTED WIRING BOARD FINGER CONTACTS.
  - REMOVED
  - DESIGNATIONS SHOWN THUS < > APPEAR ON COMPONENT APPARATUS.
  - PRINTED WIRING BOARD IS ARRANGED SO THAT THE 1066A FILTERS ARE PHYSICALLY INTERCHANGEABLE WITH THE F-58991 FILTERS, AND THE 1067A FILTERS ARE PHYSICALLY INTERCHANGEABLE WITH THE F-58892 FILTERS.

**SUPPORTING INFORMATION**

CATEGORY	NO.
EQUIPMENT DRAWING X-SPEC	J987188C-( ) X-78436

DWG ISSUE	RECORDS	DATE	BY	APP'D
1	1	7-27-71	FAC	J.P.P.
2A	2A	10-16-71	FAC	L.F.S.
3A	2A	5-10-72	FAC	L.F.S.
4AC	2A	5-10-72	FAC	L.F.S.
5B	2A	8-10-72	FAC	L.F.S.
6B	2A	8-15-72	FAC	L.F.S.
7B	2A	7-13-73	FAC	L.F.S.

- INFORMATION NOTES:**
- UNLESS OTHERWISE SPECIFIED:  
ALL RESISTANCE VALUES ARE IN OHMS,  
ALL CAPACITANCE VALUES ARE IN MICROFARADS,  
ALL VALUES PRECEDED BY THE SYMBOL +(PLUS) OR -(MINUS) ARE IN VOLTS.
  - OFFICE WIRING LIST RECORDS NEED NOT BE MAINTAINED FOR SCREW-TYPE OPTIONS.
  - FIG. 101 THROUGH 106 ARE FOR INFORMATION ONLY. SEE CONTROLLING SCHEMATIC FOR COMPLETE CIRCUIT DETAILS.

**CIRCUIT NOTES:**

- TIGHTEN SCREW [E] FOR STANDARD E LEAD SIGNALING. DO NOT TIGHTEN FOR LOOPED SIGNALING INTERFACE (EA AND EB LEADS).

**RECORD OF FIGURES, WIRING, AND APPARATUS CHANGES**

CHANGED ON ISS	IF JOBS RECORDS DO NOT SPECIFY	THIS OPTION WAS FURN	SEE NOTE	USE IN CIRCUIT			
				STD	A & M	MD	SPEC
4AC	S OR T	S		T		S	
5B	M OR N	M		N		M	
6B	K	NONE		K			
	W, Y	W, Y	110	W, Y			
7B	FIG. A OR FIG. B	FIG. A		FIG. B		FIG. A	
	J OR V	J		V		J	

- UNLESS OTHERWISE SPECIFIED ALL RESISTORS ARE 254A EXCEPT WHEN PRINTED WIRING PATHS MUST BE RUN BENEATH COMPONENTS 237A TYPE WILL BE USED. KS-20810, L1A.
- REMOVED
- F-58891 AND F-58892 ARE ACTIVE FILTERS WITH CAP-PAK CAPACITORS. 1066A AND 1067A ARE ACTIVE FILTERS WITH THIN FILM CAPACITORS.
- THE RPAM & RPAMG LEADS SHALL BE RUN PARALLEL TO EACH OTHER, KEPT SHORT AND RUN DIRECT TO THE RECEIVE FILTER. THE TPAM & TPAMG LEADS SHALL BE RUN SIMILARLY TO THE TRANSMIT FILTER.
- FOR CONNECTING INFORMATION SEE APPLICATION SCHEMATIC FOR THE D3 BANK SD-3C104-01.
- THE 326A RELAY IS NOT ADJUSTABLE. REPLACE WHEN THERE IS A MALFUNCTION.
- SET AT1 AND AT2 TO BUILD-OUT (RESPECTIVELY) THE LOSS OF THE TRANSMIT AND RECEIVE OFFICE CABLING FROM THE SWITCH TO 1.5 dB. THE LOSS OF THE ATTENUATORS IS INDICATED BY THE SUM OF THE EXPOSED DIGITS.
- OPTIONS (W) AND (Y) ARE PERMANENT CONNECTIONS

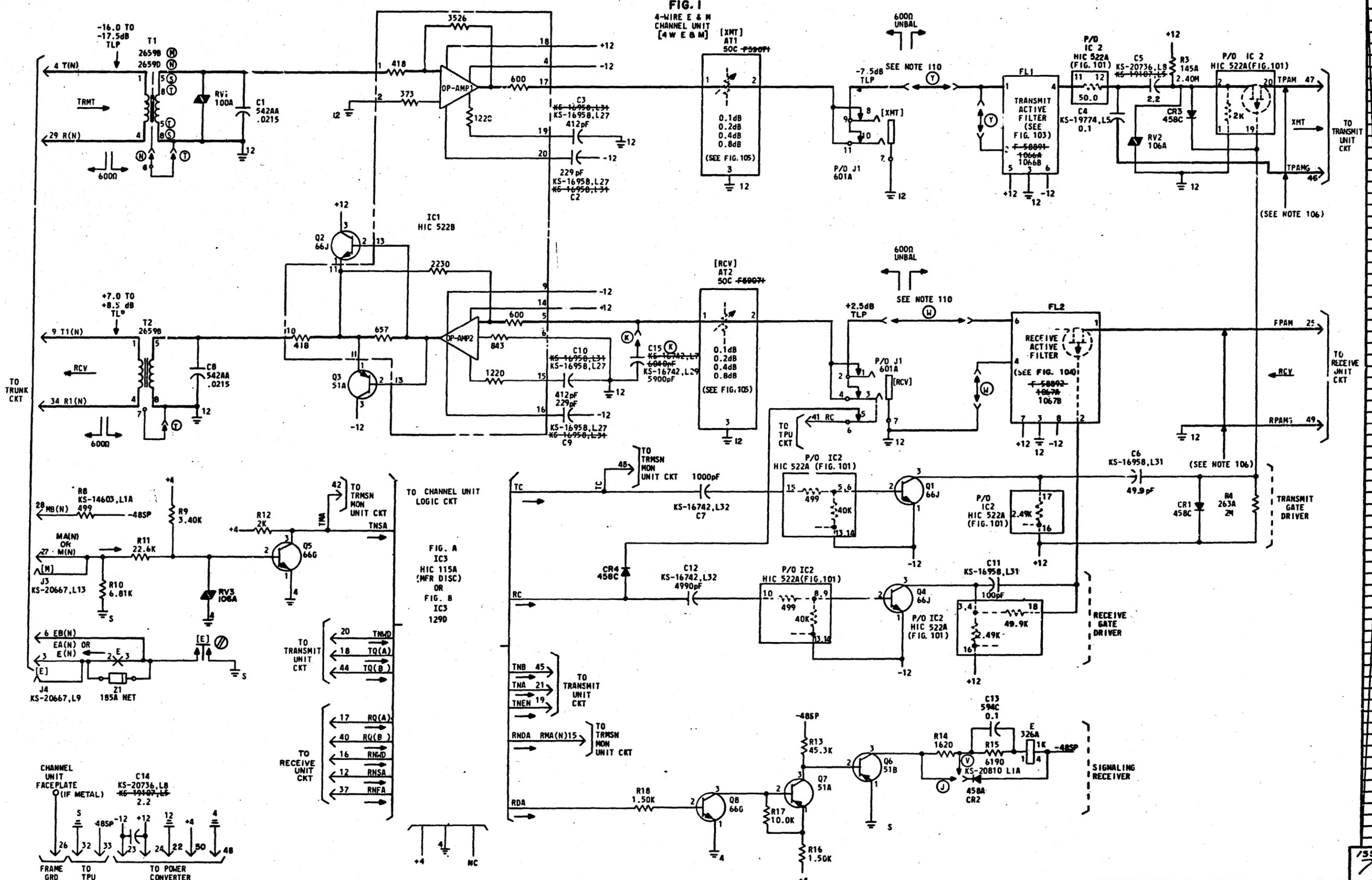
**HIGHEST COMPONENTS USED ON THIS DRAWING**

CR4	CR4	QB	R18	RV3
NOT USED				
			R1, R2, R5, R6, R7	

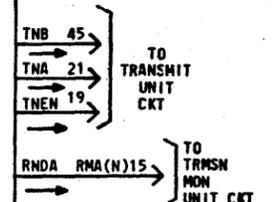
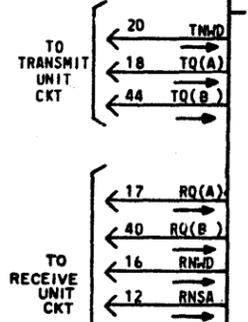
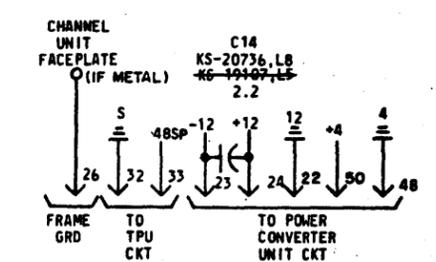
ISSUE  
7B

SD-3C124-01	1N22
COMMON SYSTEMS 24 CHANNEL PCM BANK TYPE D3 4-WIRE E & M CHANNEL UNIT CIRCUIT	
D3CE	(4x E & M)
BELL TELEPHONE LABORATORIES INCORPORATED	65
SD-3C124-01-1 4 SHEETS	

**FIG. 1**  
4-WIRE E & M  
CHANNEL UNIT  
[4 W E & M]

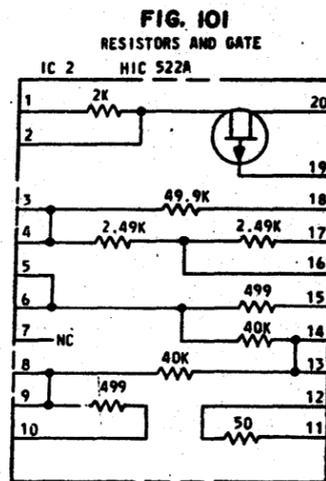


**FIG. A**  
IC3  
HIC 115A  
(MFR DISC)  
OR  
**FIG. B**  
IC3  
129D

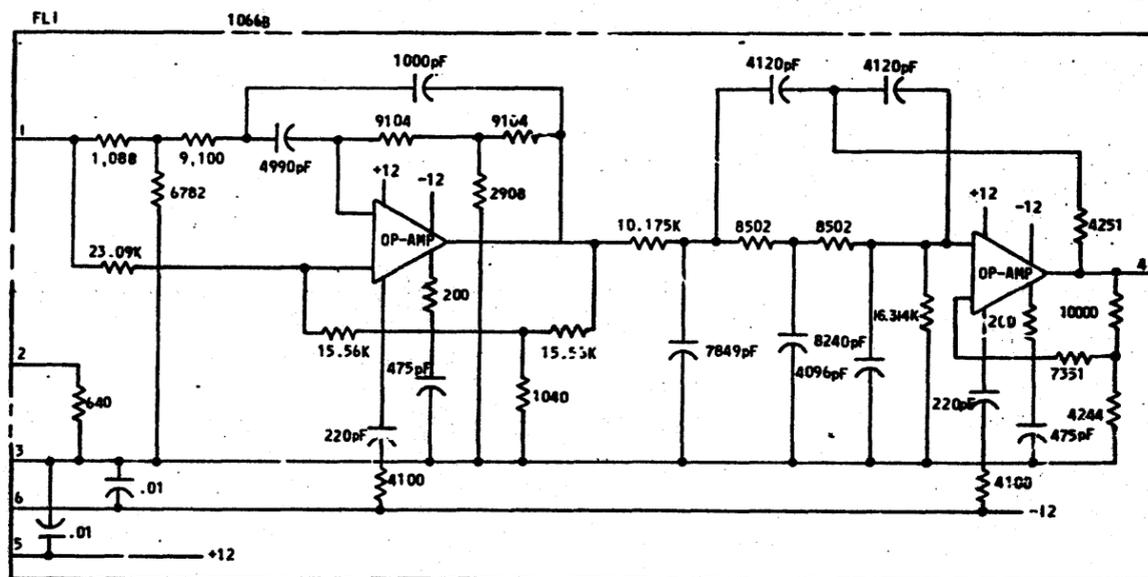


SD-3C124-01-2

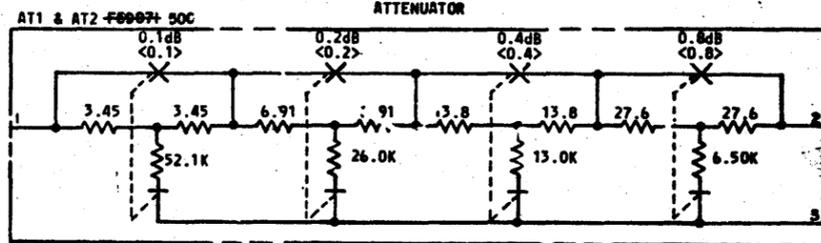
ISSUE 7B



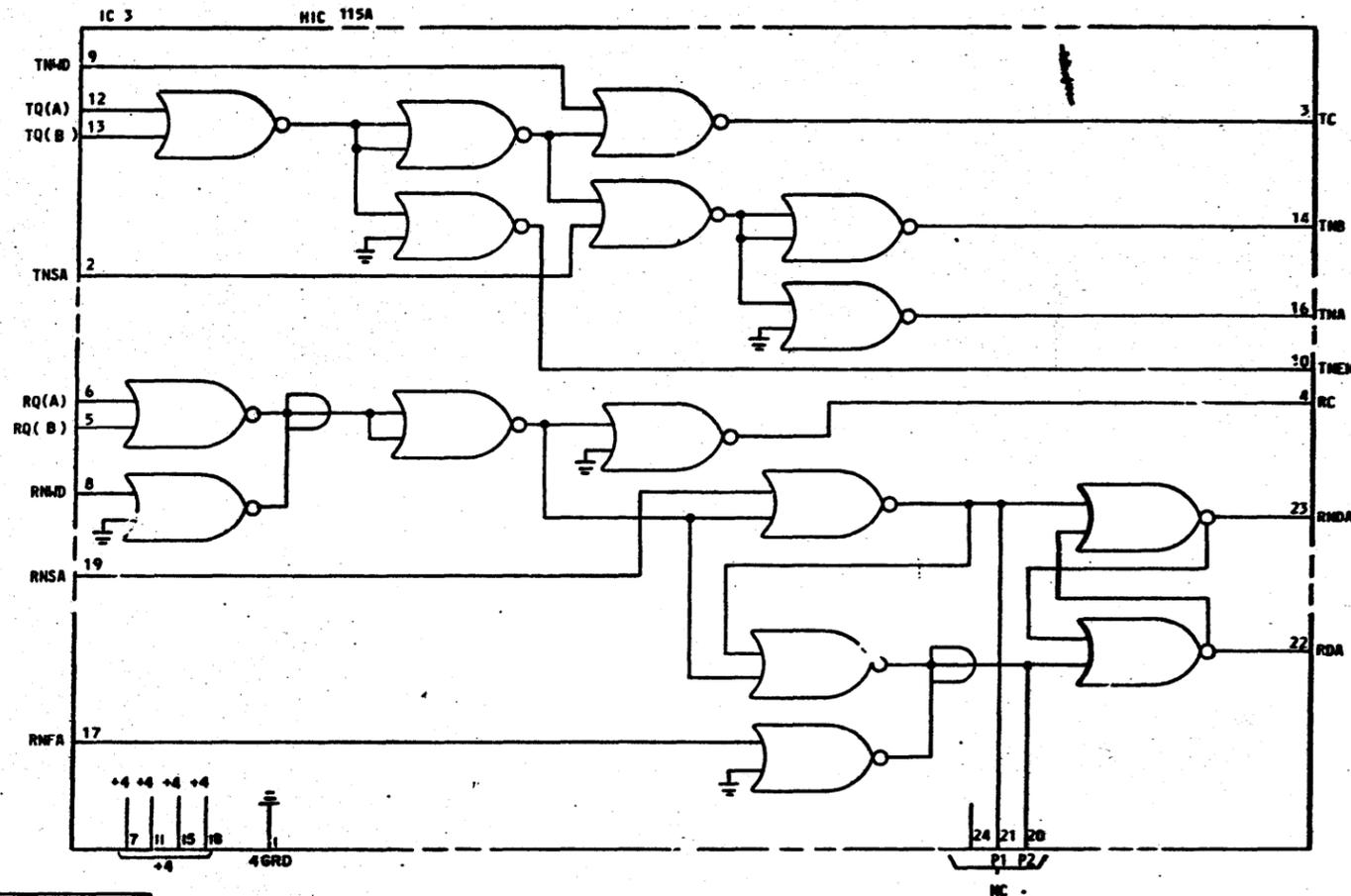
**FIG. 103**  
TRANSMIT ACTIVE FILTER



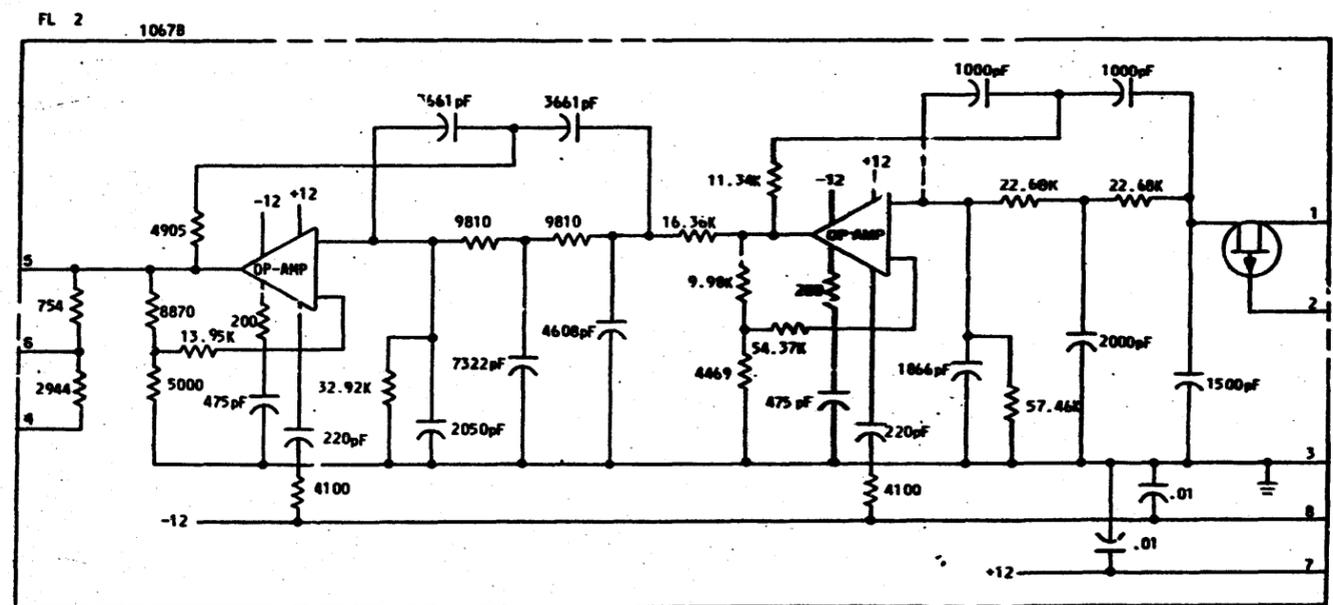
**FIG. 105**  
ATTENUATOR



**FIG. 102 (MFR DISC)**  
CHANNEL UNIT LOGIC



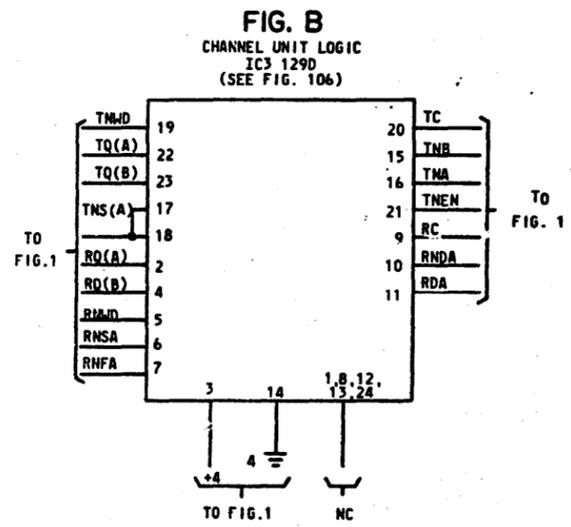
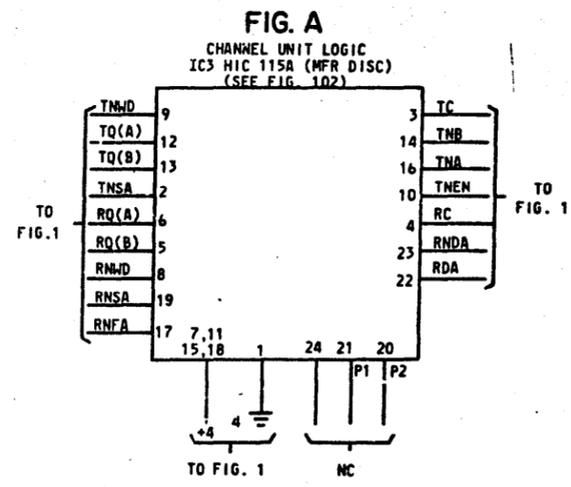
**FIG. 104**  
RECEIVE ACTIVE FILTER



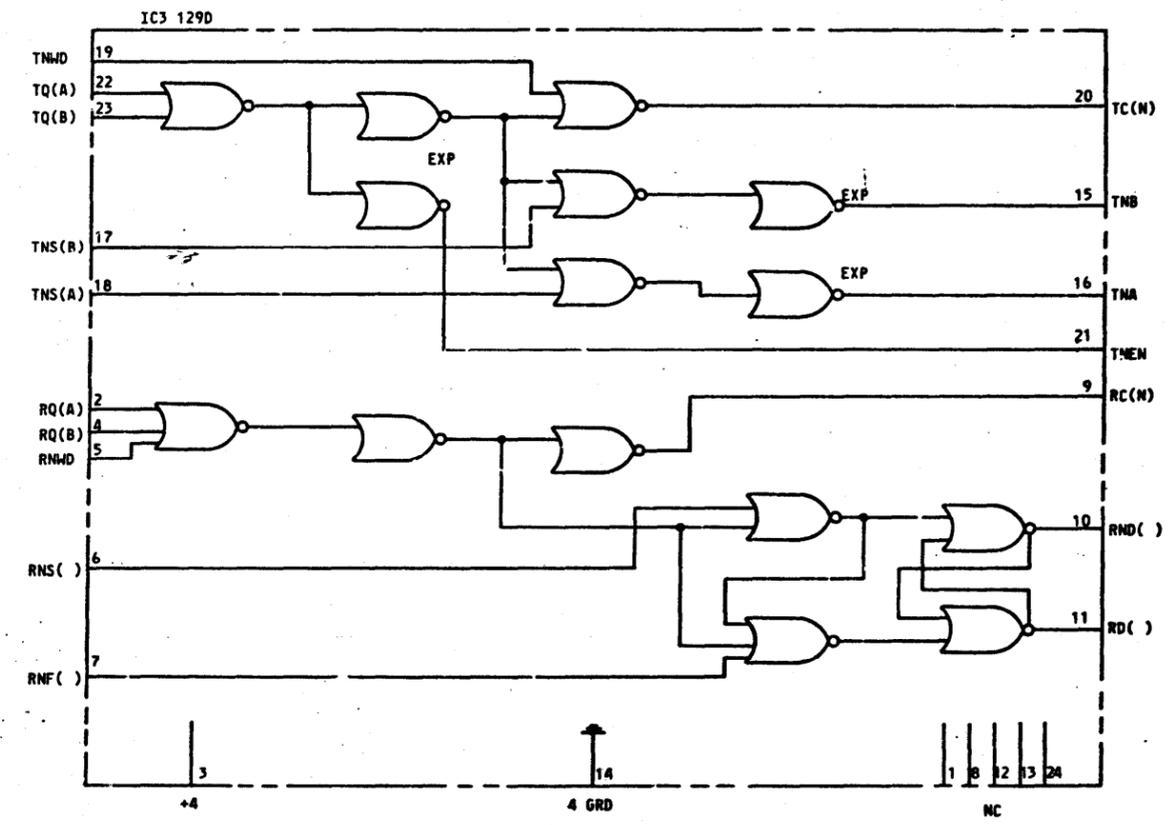
SD-3C124-01-3

A  
B  
C  
D  
E  
F  
G  
H

A  
B  
C  
D  
E  
F  
G  
H



**FIG. 106**  
CHANNEL UNIT LOGIC



5-70-7012-01-4