

MODEL 8041  
(NATIONAL PUBLIC RADIO)

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1

2

3

4

5

6

7

8

REF ID	DESCRIPTION	REVISIONS		
		REV	CHECKED	APPROVED
6608-3282	8041	A	RELEASED FOR PRODUCTION	AC 27 27 9/4/80

A

A

B

B

C

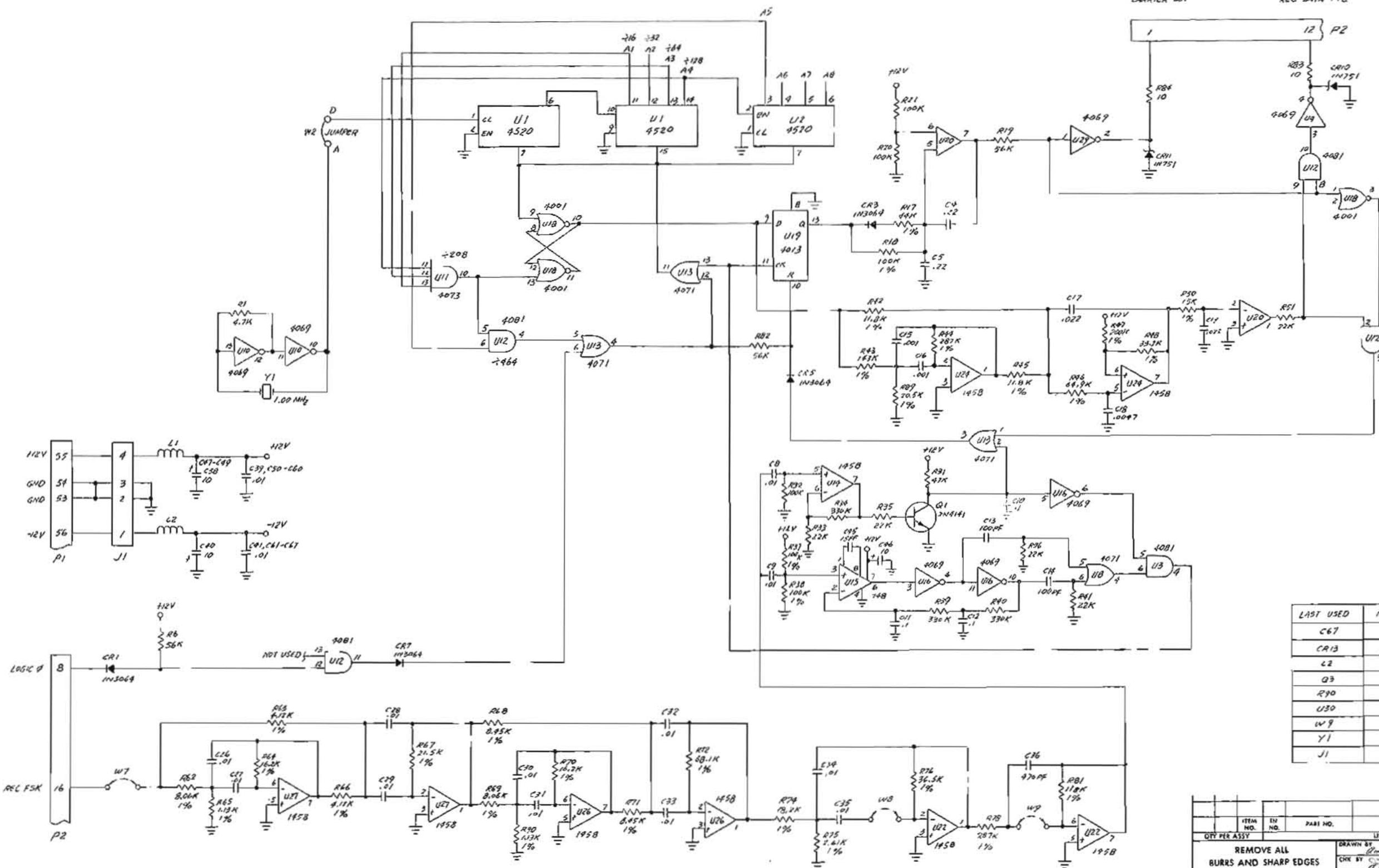
C

D

D

E

E



LAST USED	NOT USED
C67	
CA13	
L2	
Q3	
R90	
U30	
W9	
Y1	
J1	

ITEM NO.	IN.	PART NO.	DESCRIPTION		REP
			QTY PER ASSY	UNIT OF MATERIALS	
<b>REMOVE ALL BURRS AND SHARP EDGES</b>					
PROJ. NO.	93-1	REV			
PROJ. ENGR.	John	DATE	9/4/80		
APP'D		BY			
APP'D		APPROVED	John		
APP'D		APPROVED	John		
<b>DO NOT SCALE THIS PRINT</b>					
ECO NO.		DRAWING NO.	6601-3282	REV	A
		SCALE	1:1	SHR	101

4

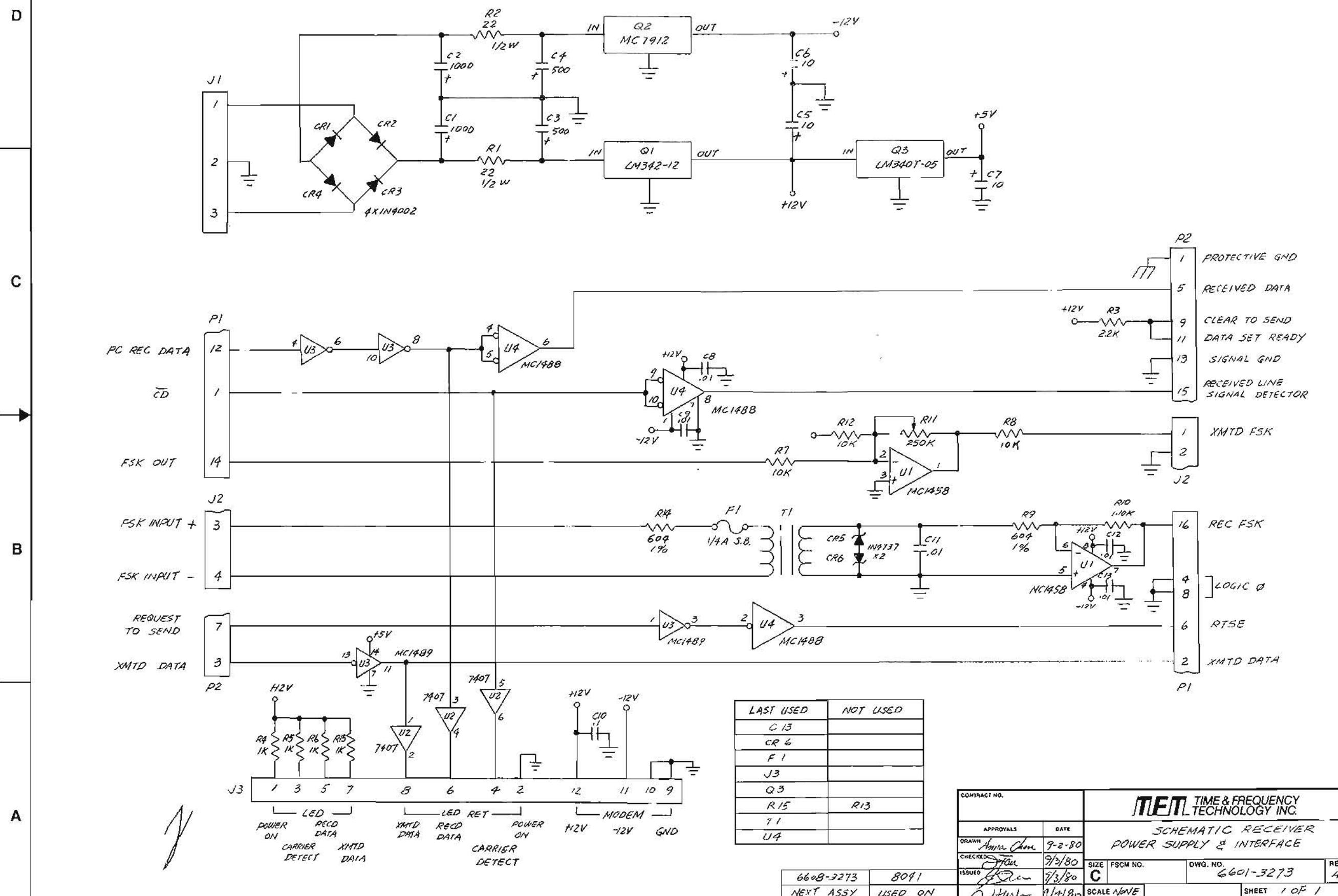
3

2

1

REF:  
P.C. BD: 1600-3273, REV B  
P.C. BD ASSY: 6608-3273, REV A

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
A	RELEASED FOR PROD CTN	9/3/80	Jay	



Mc MARTIN SDR-1

COORDINATION CHANNEL DEMOD.

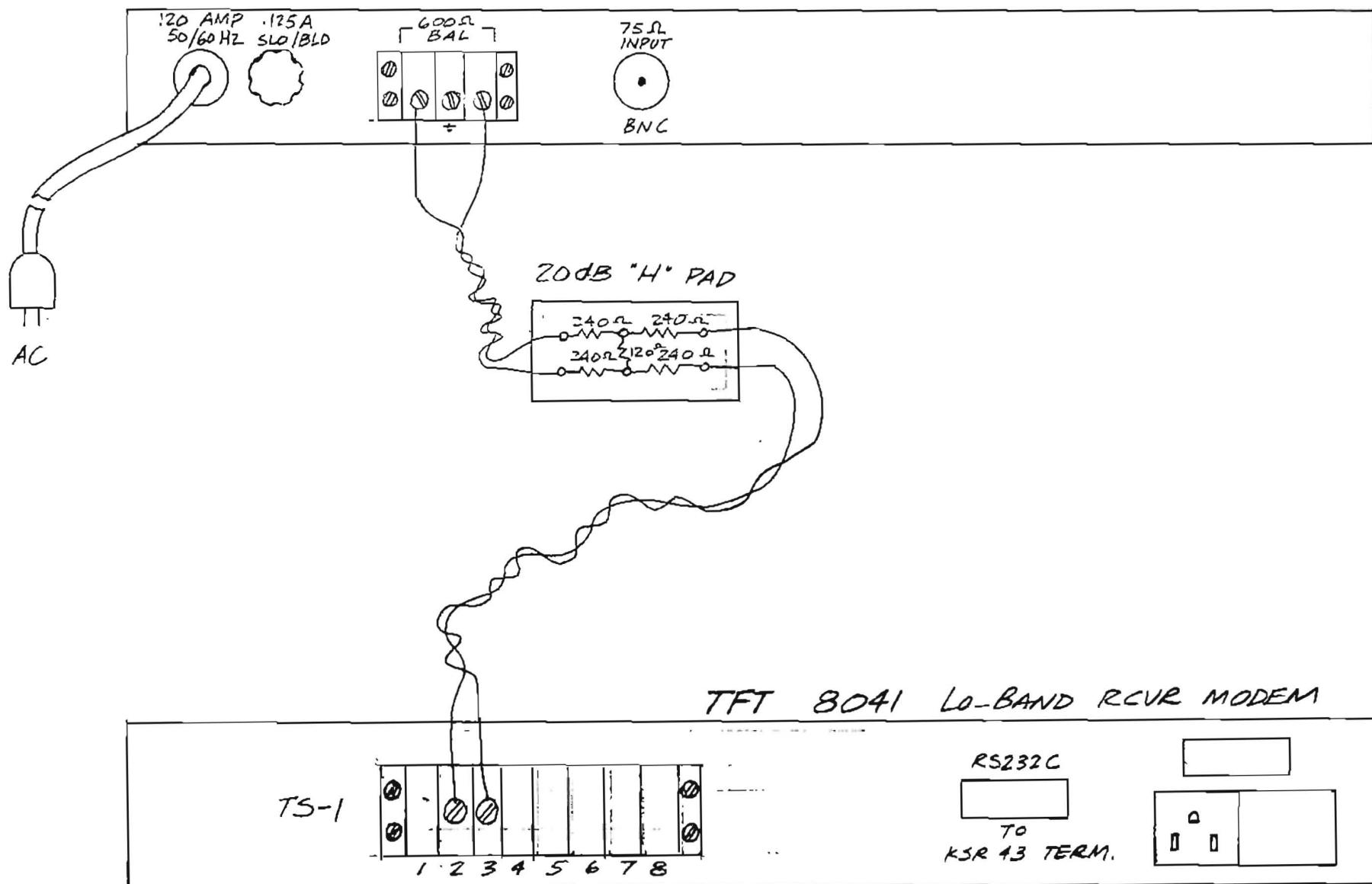


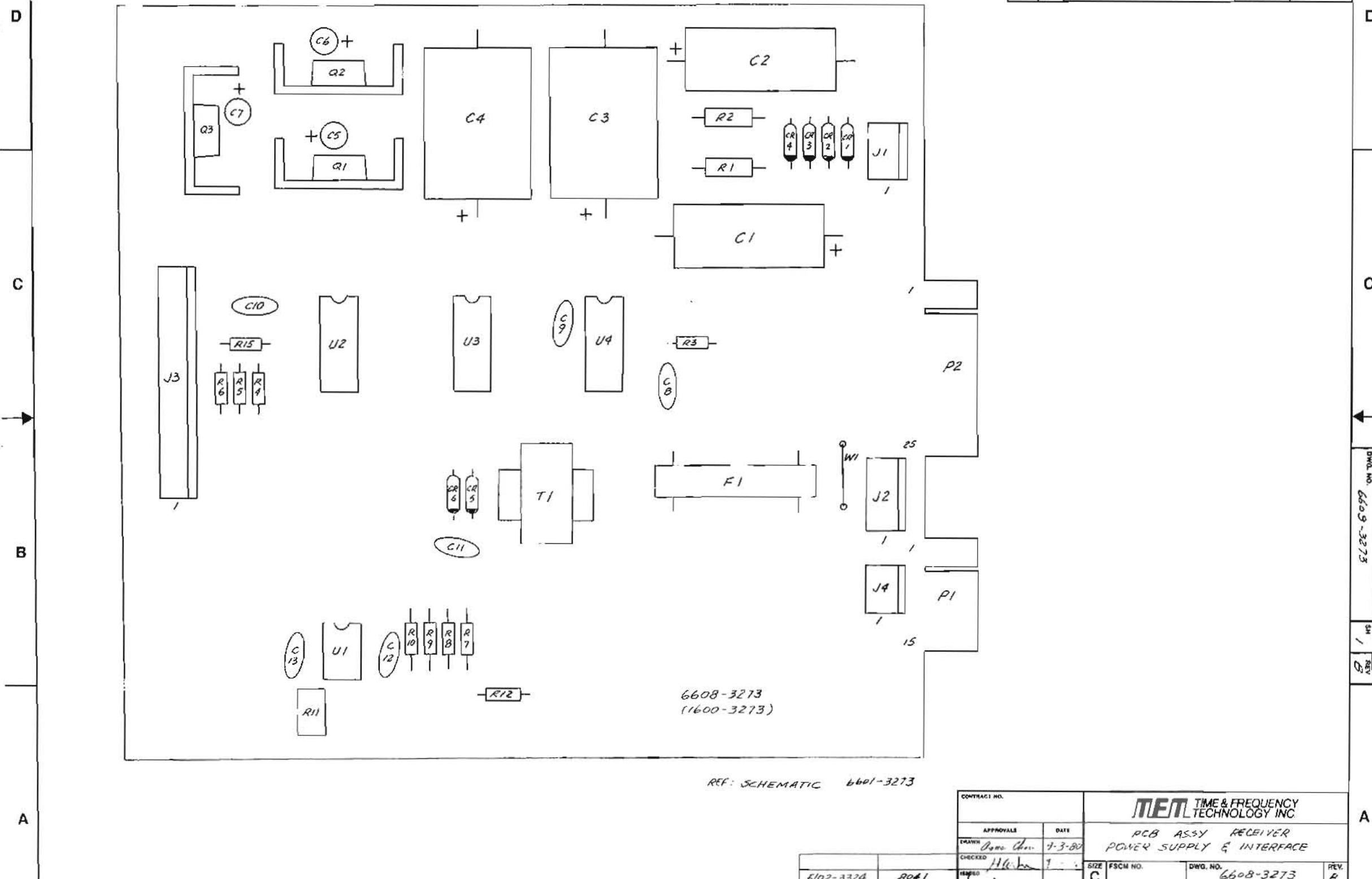
FIG. 1

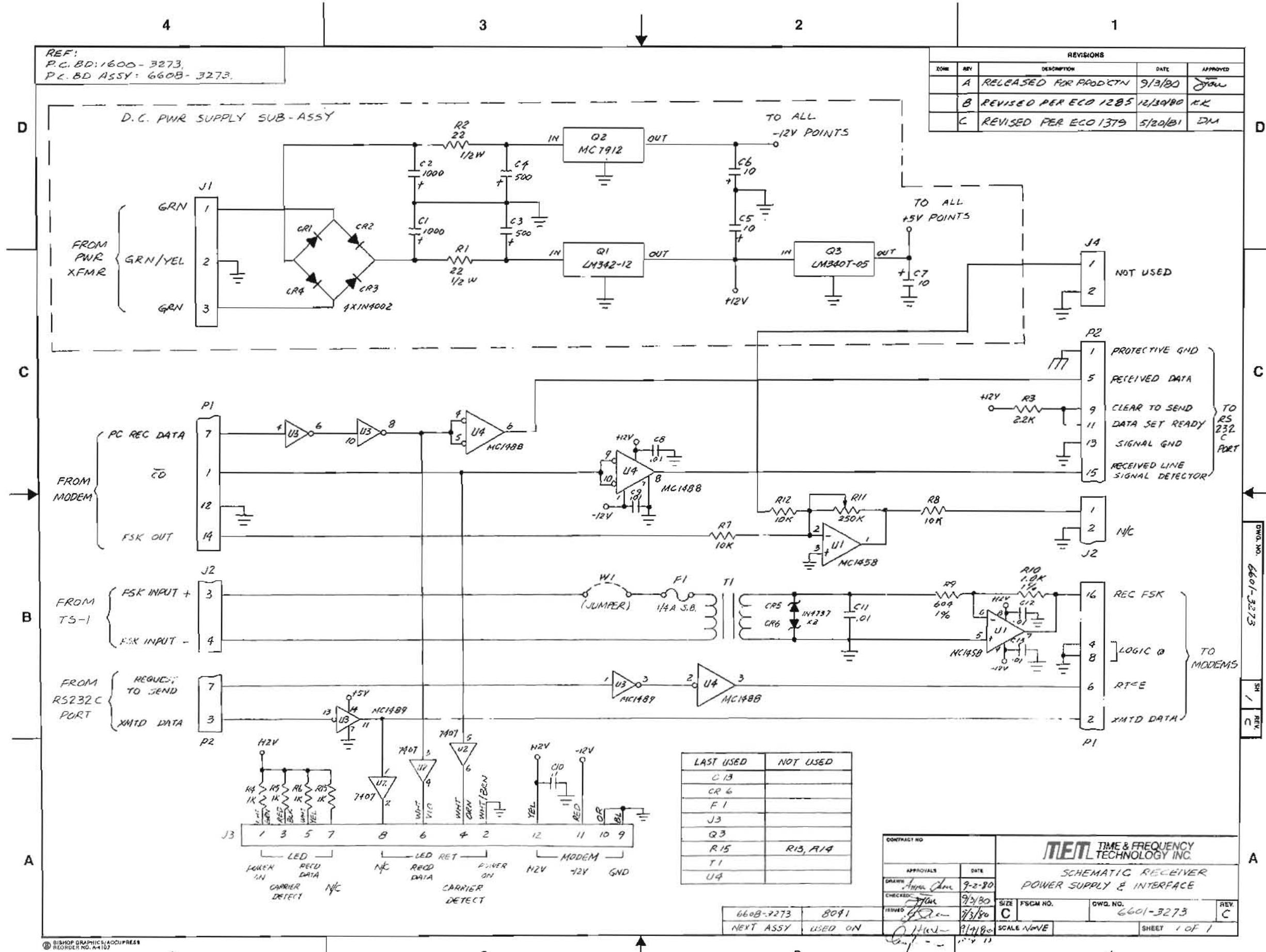
4

3

2

1





1 2 3 4 5 6 7 8

NEXT ASSY	USED ON	REVISIONS				
		SYM	DESCRIPTION	DR	CHK	AUTH
5102-3324	3091	A	REFL. PCB FOR RECEIVER	AC	ST	JT
		B	REV PER F.O. 1281	AC	AS	JT
		C	REVISED PER ECO 1345	AC		1/18/80
		D	REVISED PER ECO 1379			DAV 4/26/81

A

B

C

D

E

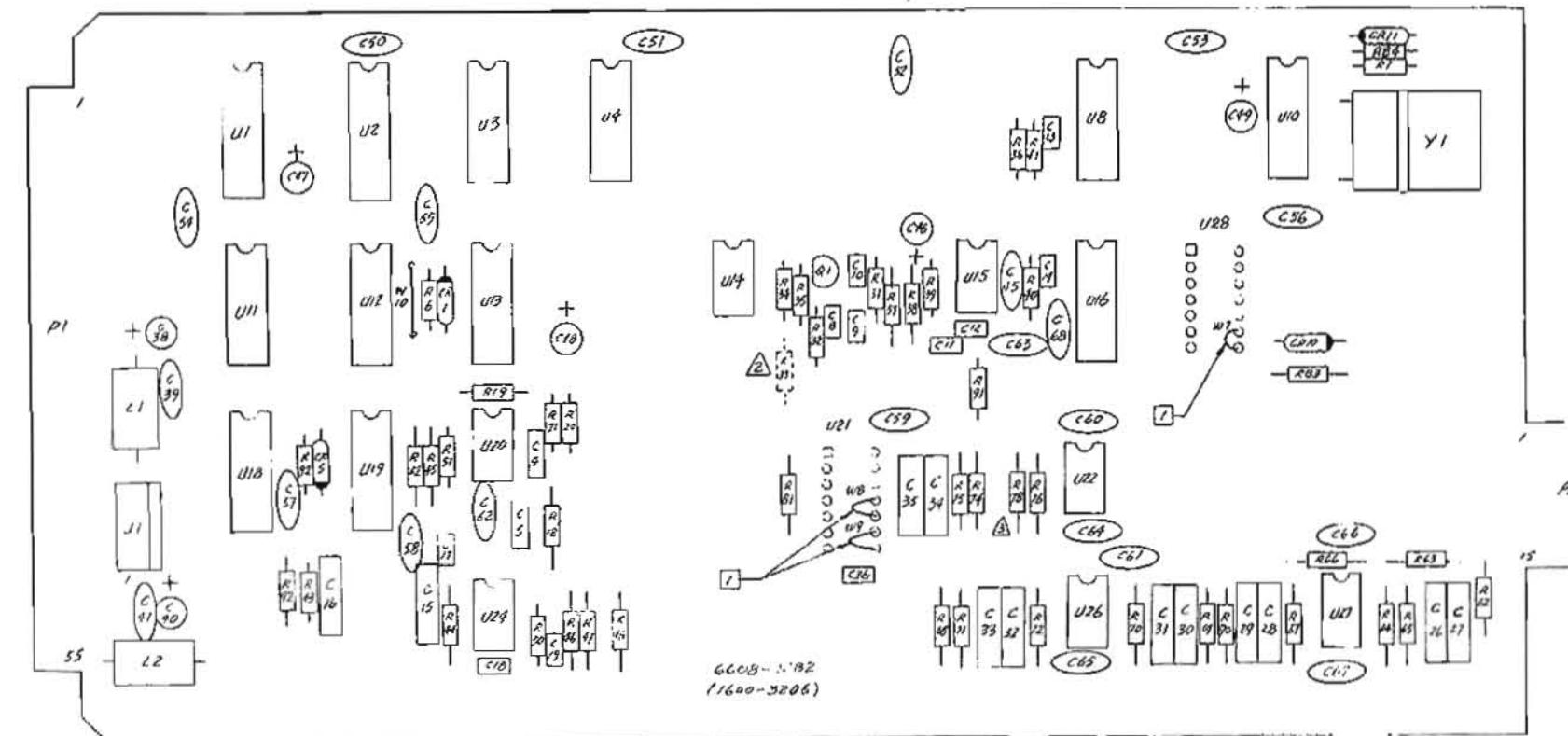
A

B

C

D

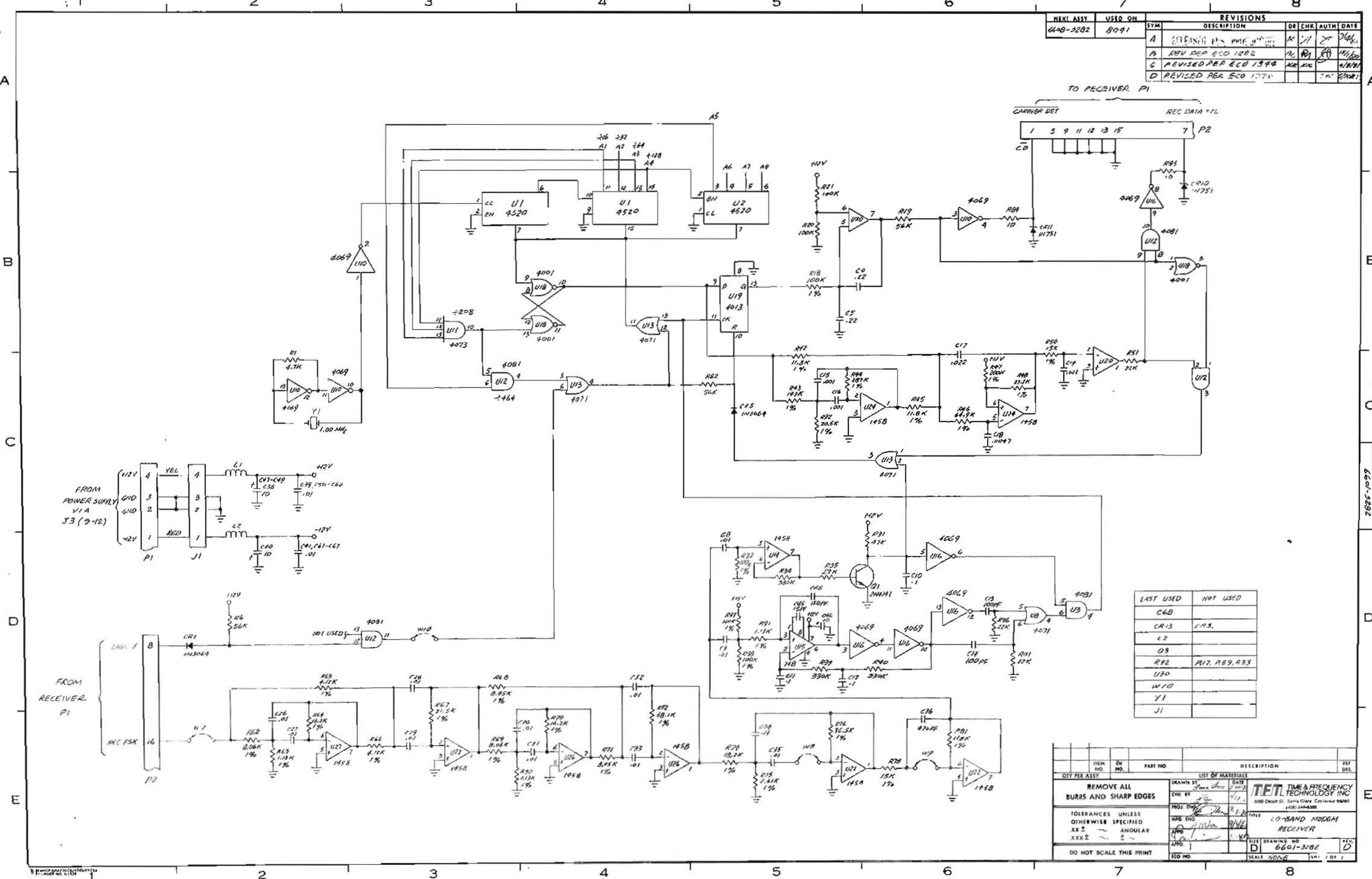
E

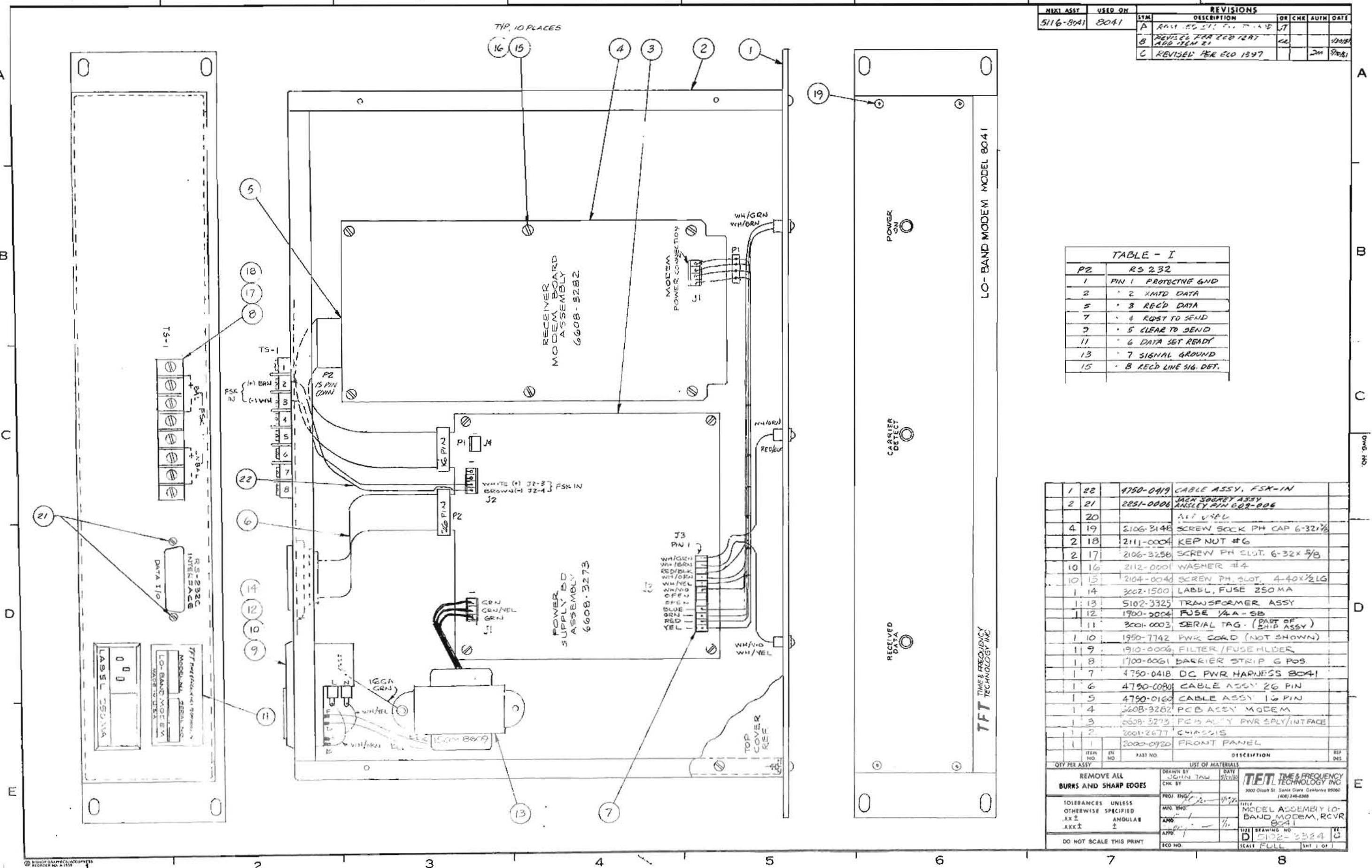


## NOTES:

- ① JUMPERS AS SHOWN.
- ② R33 DELETED
- ③ R78 VALUE CHANGED

QTY PER ASSY	ITEM NO.	EN NO.	PART NO.	DESCRIPTION		REV. C41
				REMOVED	ADDED	
LIST OF MATERIALS						
				DRAWN BY	DATE	
				CHIEF ENGR	REVISER	
				PROJ ENGR	9/1/81	
				MFG ENGR	9/1/81	
				TEST ENGR	9/1/81	
				INSPECTOR	9/1/81	
				QC ENGR	9/1/81	
				QC INSPECTOR	9/1/81	
				DO NOT SCALE THIS PRINT		
				ECO DRAWING NO.	6608-3282	ECO
				SCALE	2:1	1st / 01







National Public Radio 2025 M Street, N.W. Washington, D.C. 20036 202-785-5400

MEMORANDUM

DATE: December 9, 1980

TO: All Stations/Chief Engineers

FROM: Steve Kauffman/NPR Washington SK  
(202) 785-6343

SUBJECT: New DACS Equipment/Disposition of ASR-33

The interim DACS system station equipment package is composed of two units. These are:

- (1) Receive only modem, manufactured by Time and Frequency Technology.
- (2) KSR-43 printing terminal, manufactured by Teletype Corporation and supplied by Alanthus Data Communications.

The basic configuration of this equipment is shown in Figure 1.

We strongly suggest that you locate the TFT equipment in your satellite equipment rack, since it must be within easy reach of the channel demodulators for the final DACS system. If you do not wish to locate the KSR-43 terminal at the same place, you may cable up to 250 feet from the TFT equipment to the terminal. The mating connector for the terminal is a Cannon DB-25S, and the mating connector for the TFT unit is a Cannon DB-25P. Although these are 25 pin connectors, only pins 2, 3, 7, 8, and 20 need be carried through. Any standard 5 conductor cable may be used. If you do not wish to assemble your own cable, Belden manufactures a line of ready-made assemblies for this purpose.

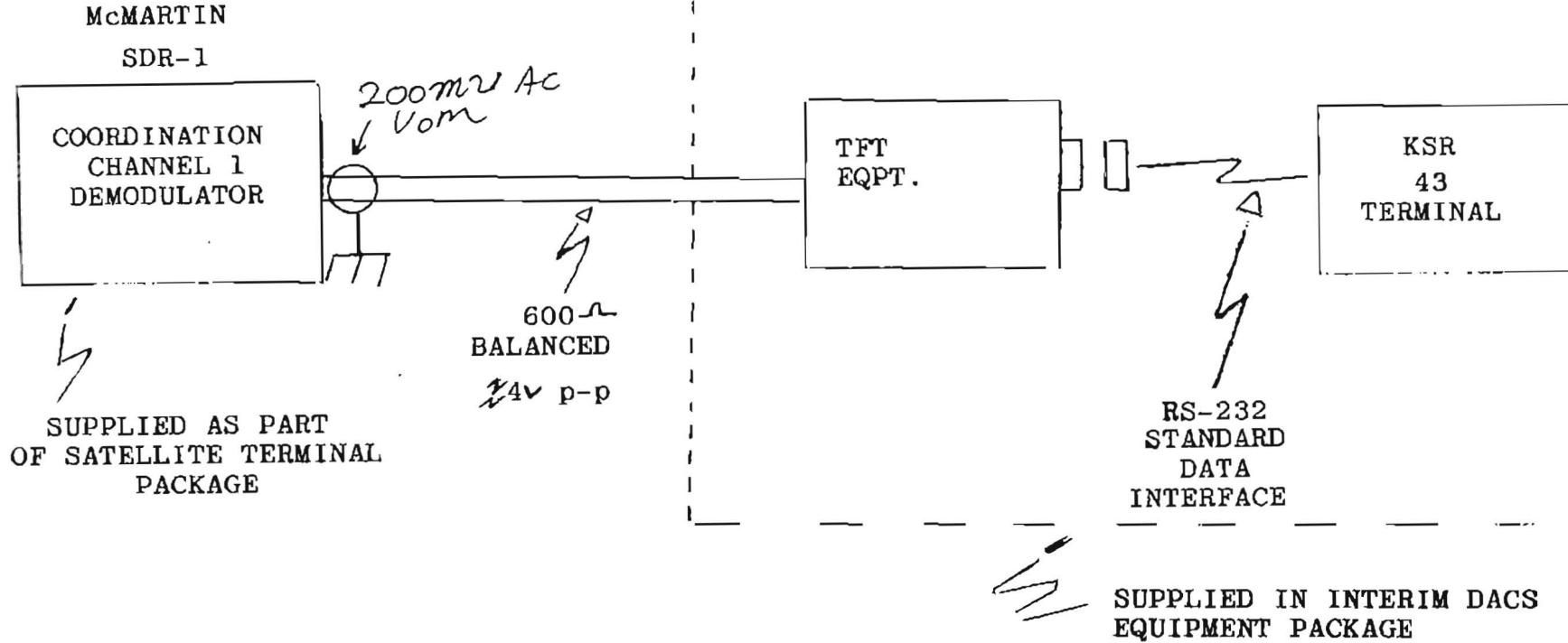


FIGURE 1: INTERIM DACS SYSTEM

*note: Squelch voltage setting  
1V above squelch threshold*

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BELDEN CABLES  
(WITH CONNECTORS ATTACHED)

<u>LENGTH</u>	<u>BELDEN PART NO.</u>
5'	9652
10'	9653
25'	9654
50'	9655
70'	9656

Belden is located at P. O. Box 1327, Richmond, Indiana, 47374. The fastest procedure would be to contact them, and let them tell you the name of your local sales representative. The most expensive (70' cable) is roughly \$65.00.

Installation Procedure

- (1) Install TFT equipment and KSR-43 terminal in the desired location and perform wiring. The TFT equipment should be wired to the CC1 Demod unit using standard audio practice. The input terminals to the TFT unit are the left most pair as you face the rear of the unit. The output terminals of the CC1 Demod are lugs 2 and 3. If you are currently using your Netcue receiver on this demod, it may be paralleled with the TFT equipment.
- (2) Adjust the CC1 Demod 'OUTPUT' control to the furthest counterclockwise position. Now, advance the same control one-third of a turn in the clockwise direction. If an oscilloscope is available, verify that the waveform being delivered by the CC1 Demod is approximately 1 volt peak to peak. Adjust as appropriate.\*

This completes the installation procedure.

Disposition of Existing ASR-33 Terminals

As discussed in the Engineering newsletter, stations will be given the option to purchase the ASR-33 terminals for an on "as-is" price of \$350.00. If this option is elected, all maintenance and communications expenses become the responsibility of the stations.

NPR Engineering strongly encourages stations to take advantage of this purchase option. By retaining the ASR-33, stations have an independent path for inbound communication to NPR which will not

\*This adjustment must be made during the DACS operating hours (0200 to 0500) if oscilloscope measurements are to be used.

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interfere with outbound DACS message printing. Also, keeping the ASR-33 unit on a dedicated telephone circuit will give stations a dial network backup for DACS message delivery in the event of a satellite system problem. When Alanthus contacts you about this purchase, be advised that you need not exercise this option until your ASR-33 is scheduled for removal, at which time Alanthus must so notify you at least two weeks in advance. Alanthus will be happy to work with individual stations to modify the ASR-33 equipment to better conform to local phone line standards and other requirements. Please be advised that automatic DACS dial backup service will require the ASR-33 phone line arrangement be maintained as originally installed.

The Final DACS System and the New Netcue

The components you have already received will be revised in the final DACS configuration. For more information on this and the new Netcue system, please consult ENGINEERING UPDATE. A series of articles will be presented to cover these topics.