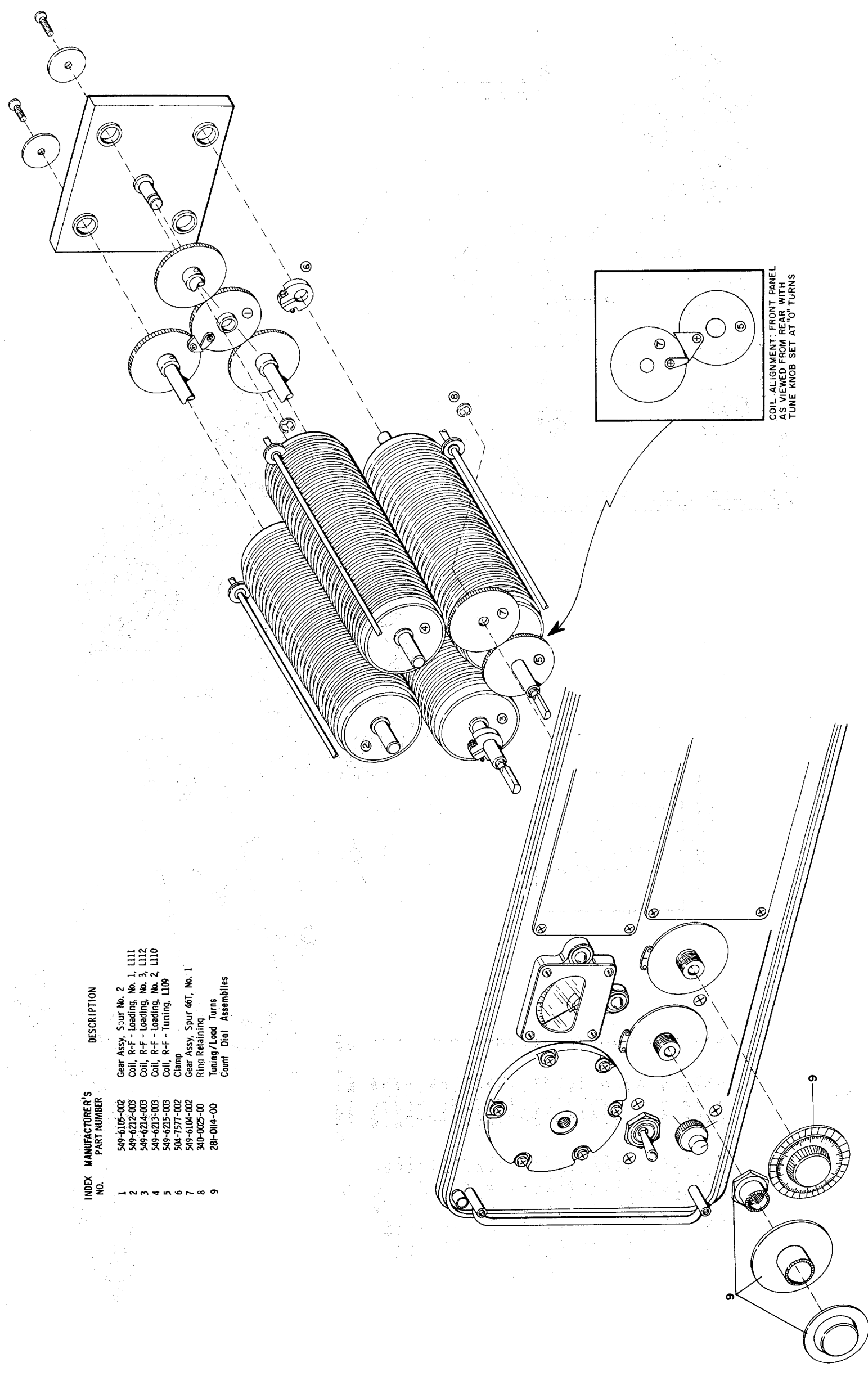




INDEX NO.	MANUFACTURER'S PART NUMBER	DESCRIPTION
1	549-6105-002	Gear Assy, Spur No. 2
2	549-6212-003	Coil, R-F - Loading, No. 1, L111
3	549-6214-003	Coil, R-F - Loading, No. 3, L112
4	549-6213-003	Coil, R-F - Loading, No. 2, L110
5	549-6215-003	Coil, R-F - Tuning, L109
6	504-7577-002	Clamp
7	549-6104-002	Gear Assy, Spur 46T, No. 1
8	340-0025-00	Ring Retaining
9	281-0114-00	Tuning/Load Turns Count Dial Assemblies

Figure 6-26. Load and Tune Mechanism, Functional Mechanical Diagram

ORIGINAL

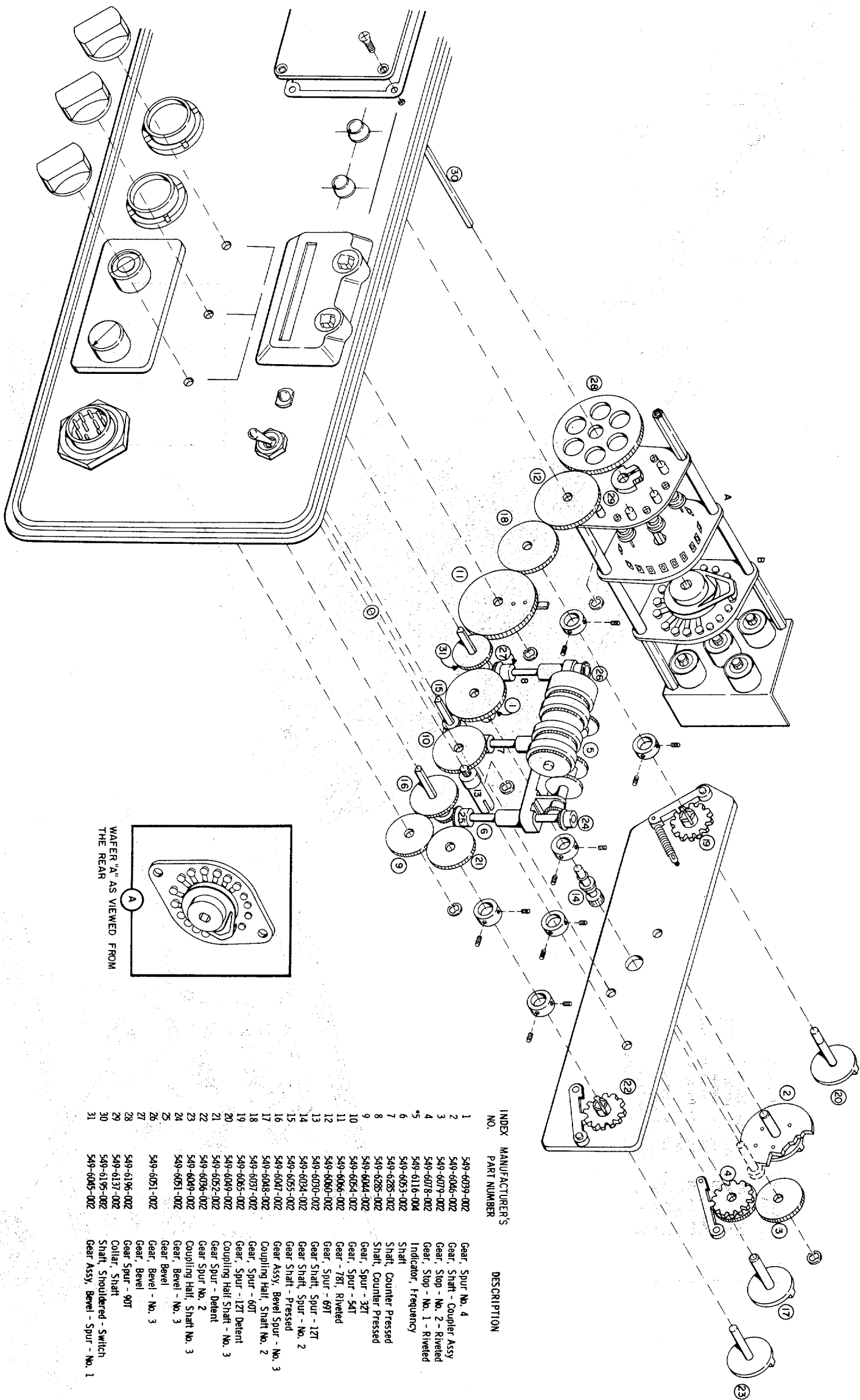


Figure 6-27. Frequency Selector Mechanism. Functional Mechanical Diagram

AN/PRC-47
TROUBLE SHOOTING

Figure
5-9

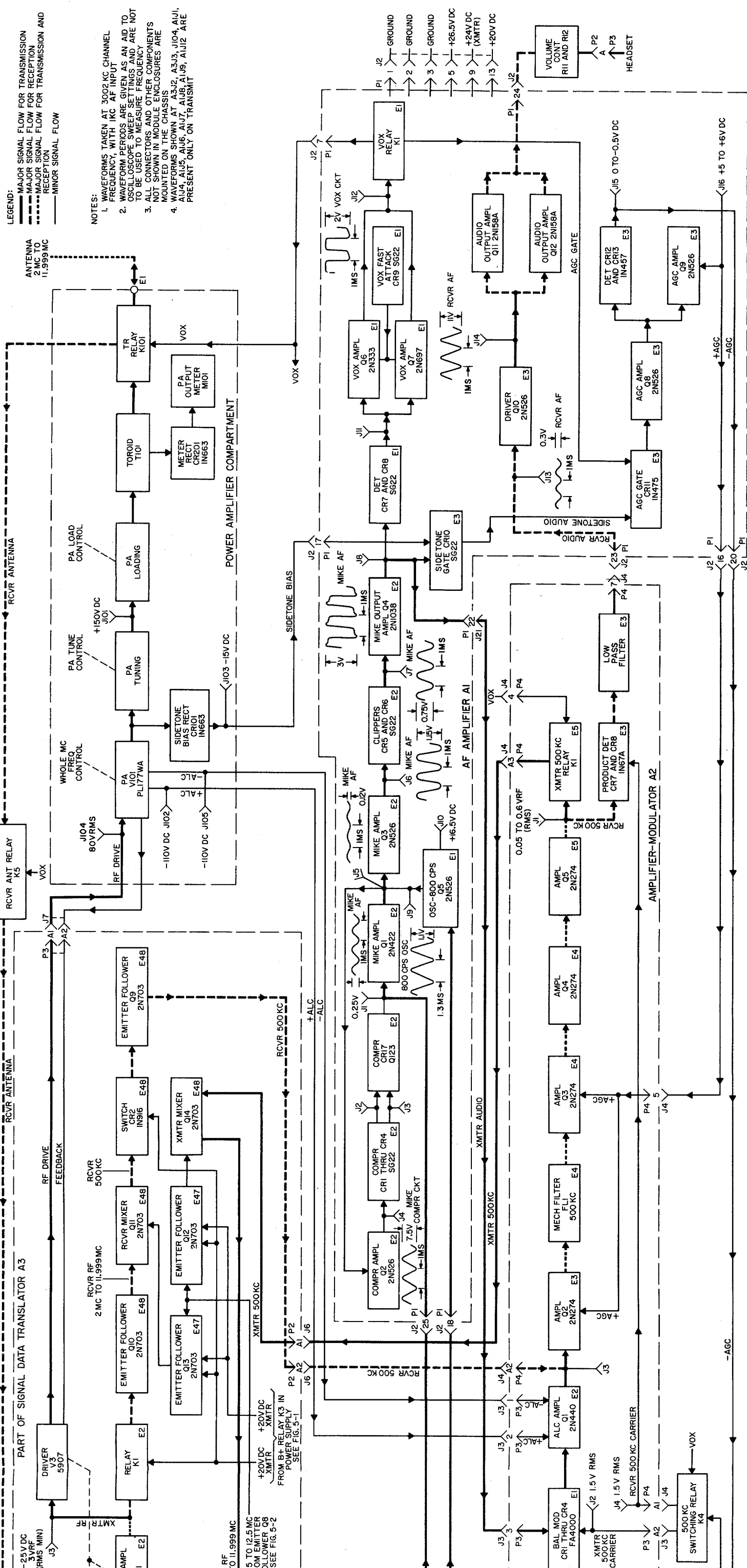


Figure 5-9. Transmit-Receive Circuits, Servicing Block Diagram

ORIGINAL

5-9/5-10

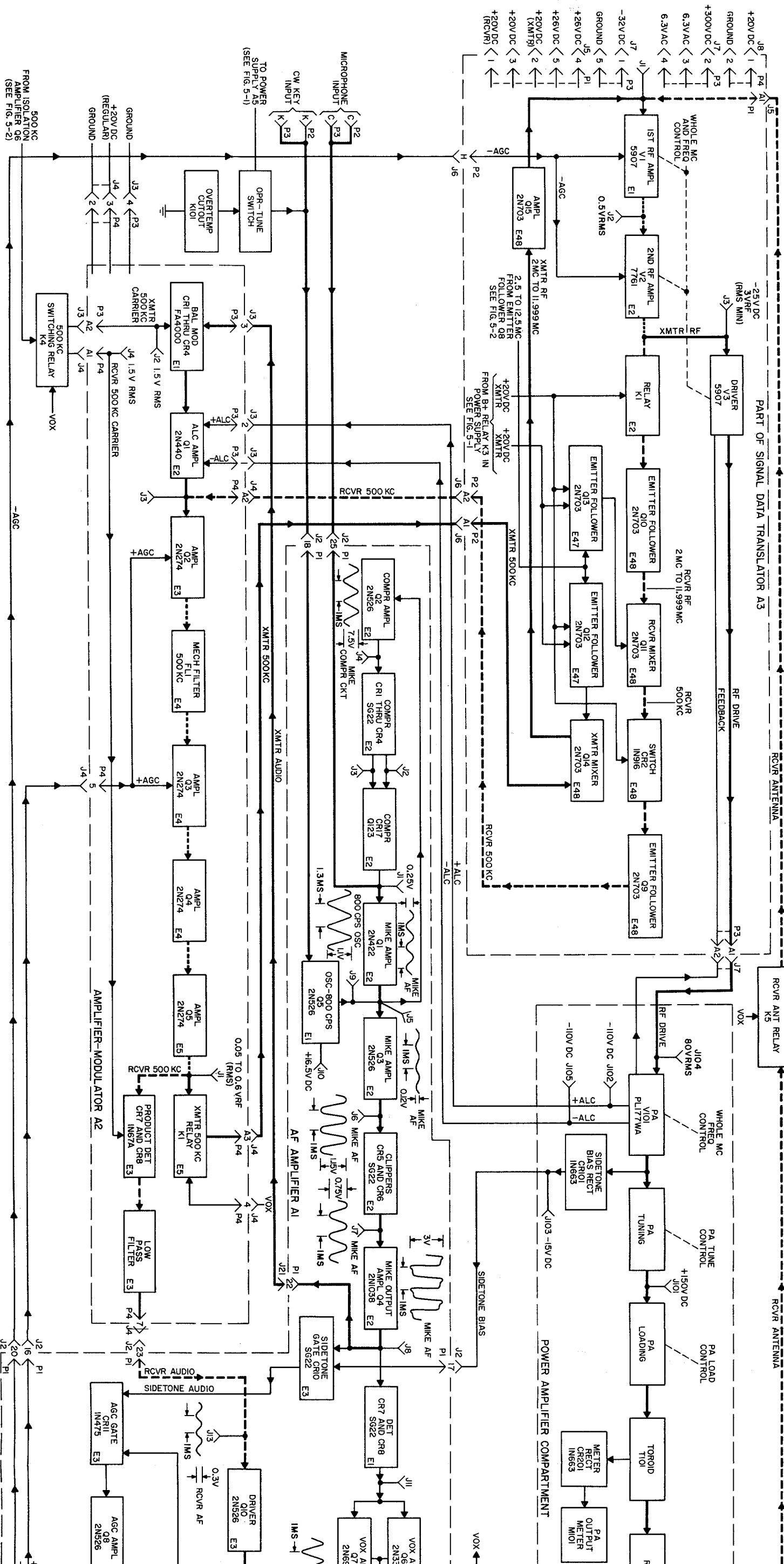


Figure 5-9. Transmit.

ORIGINAL

AN/PRC-47
TROUBLE SHOOTING

Figure 5-7

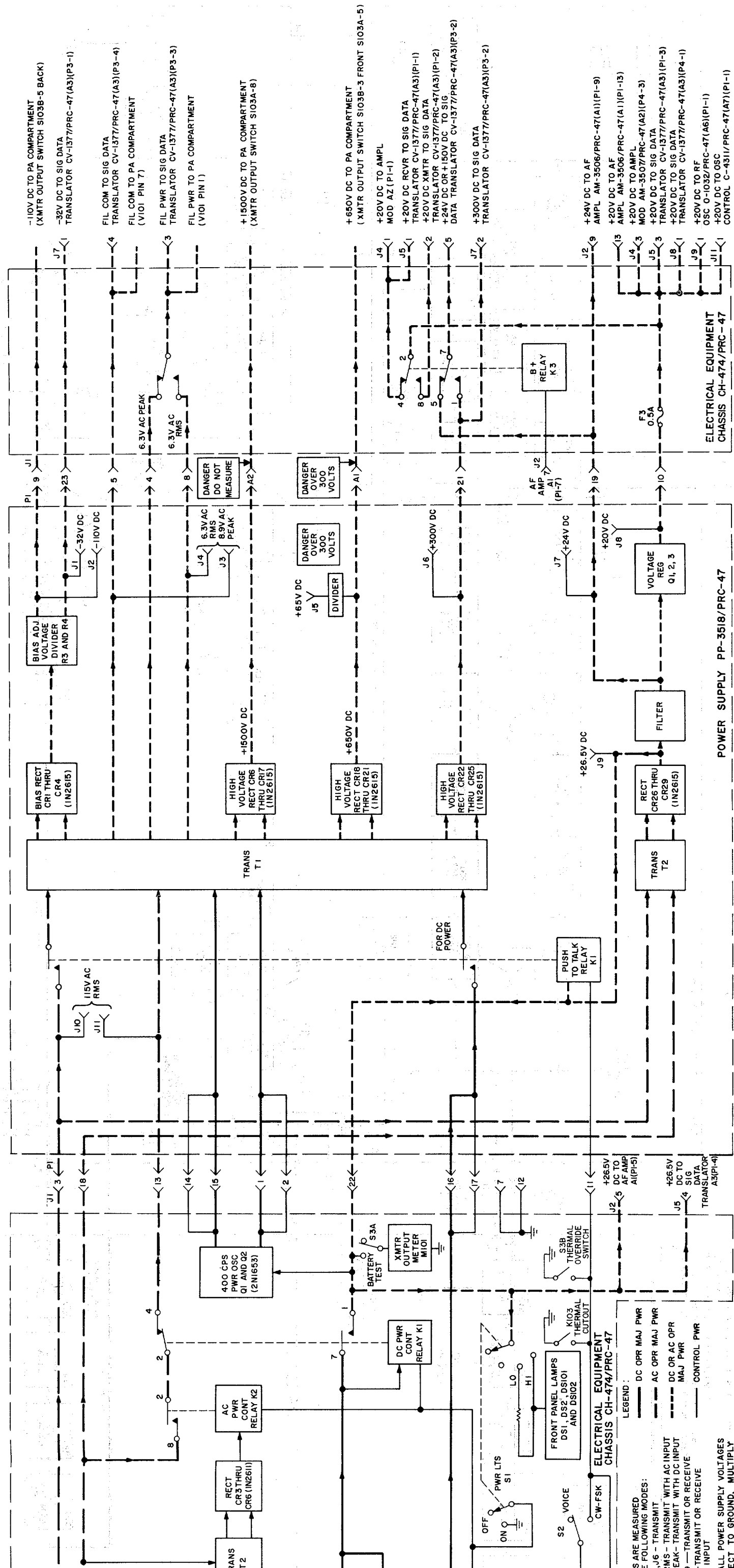
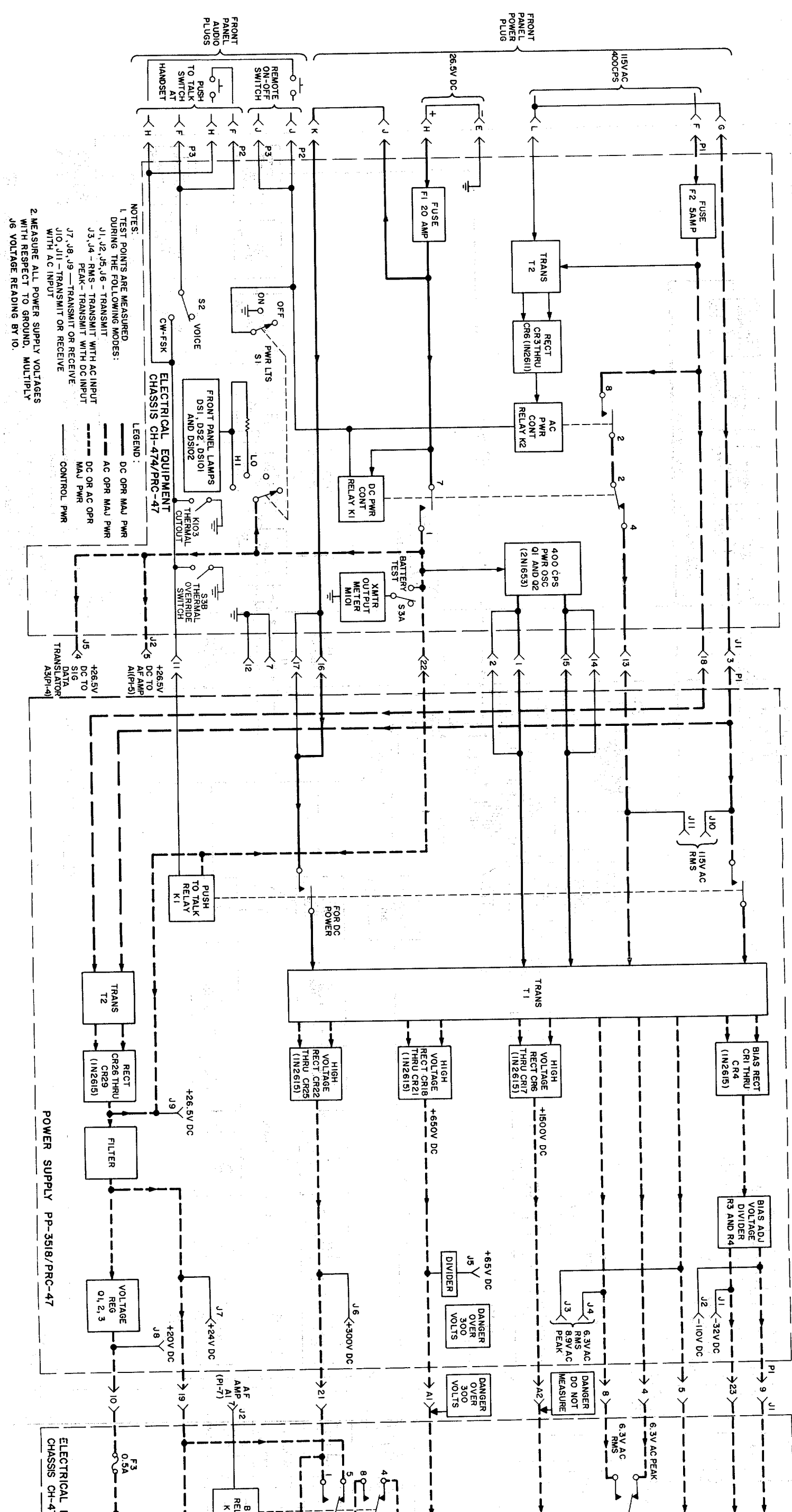


Figure 5-7. Power Supply Circuits, Servicing Block Diagram

ORIGINAL

AN/PRC-47
TROUBLE SHOOTING

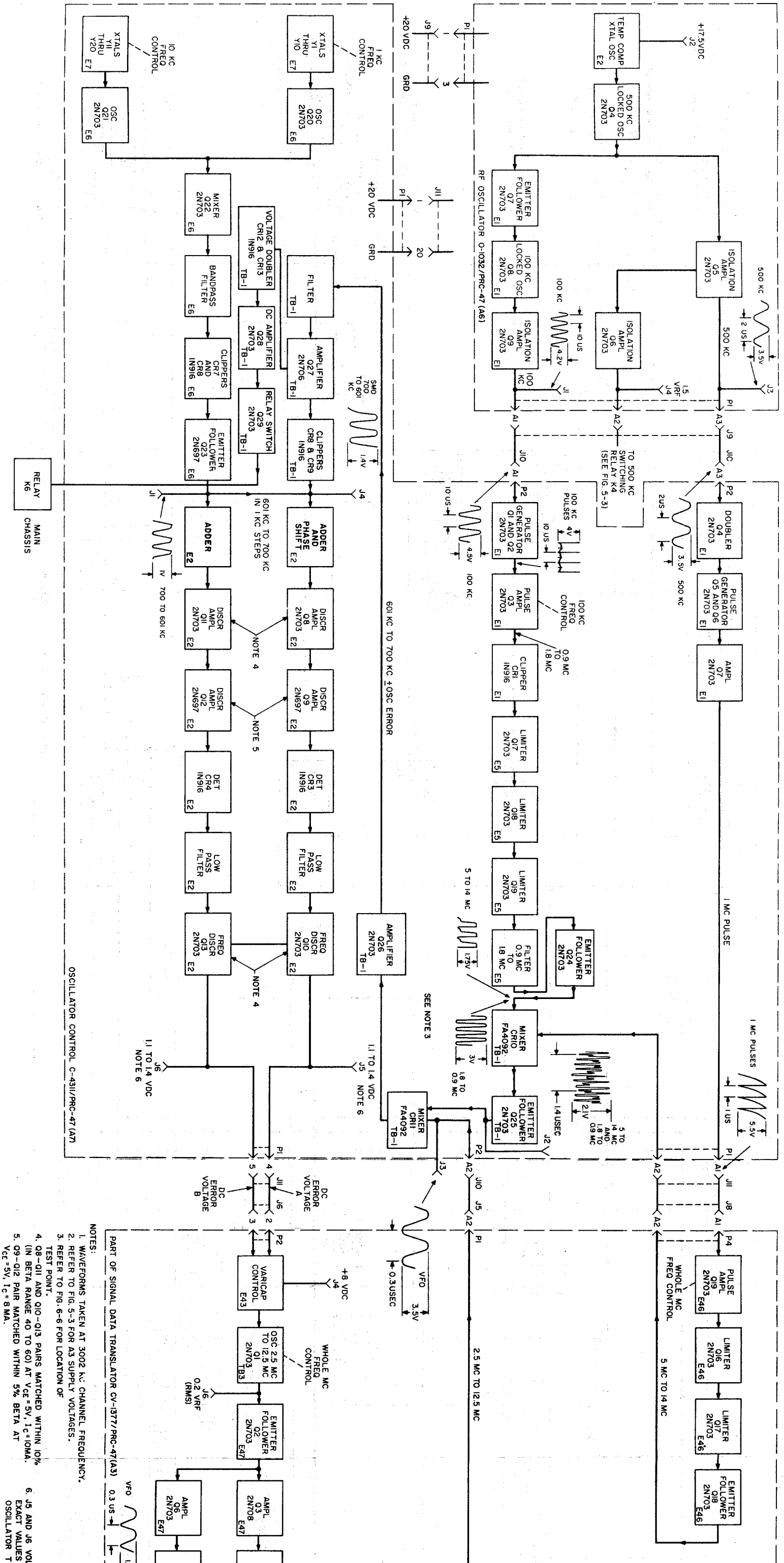


ORIGINAL

Figure 5-7. Power

Figure 5-8

AN/PRC-47
TROUBLE SHOOTING



- NOTES:
1. WAVEFORMS TAKEN AT 3002 KC CHANNEL FREQUENCY.
 2. REFER TO FIG. 5-3 FOR AS SUPPLY VOLTAGES.
 3. REFER TO FIG. 6-6 FOR LOCATION OF TEST POINT.
 4. 08--011 AND 010--013 PAIRS MATCHED WITHIN 10% (IN BETA RANGE 40 TO 60) AT VCE = 5V, IC = 10MA.
 5. 09--012 PAIR MATCHED WITHIN 5% BETA AT VCE = 5V, IC = 8 MA.
 6. J5 AND J6 VOL EXACT VALUES OSCILLATOR T

Figure 5-8. Frequency Generation Circuits, Servicing Block Diagram

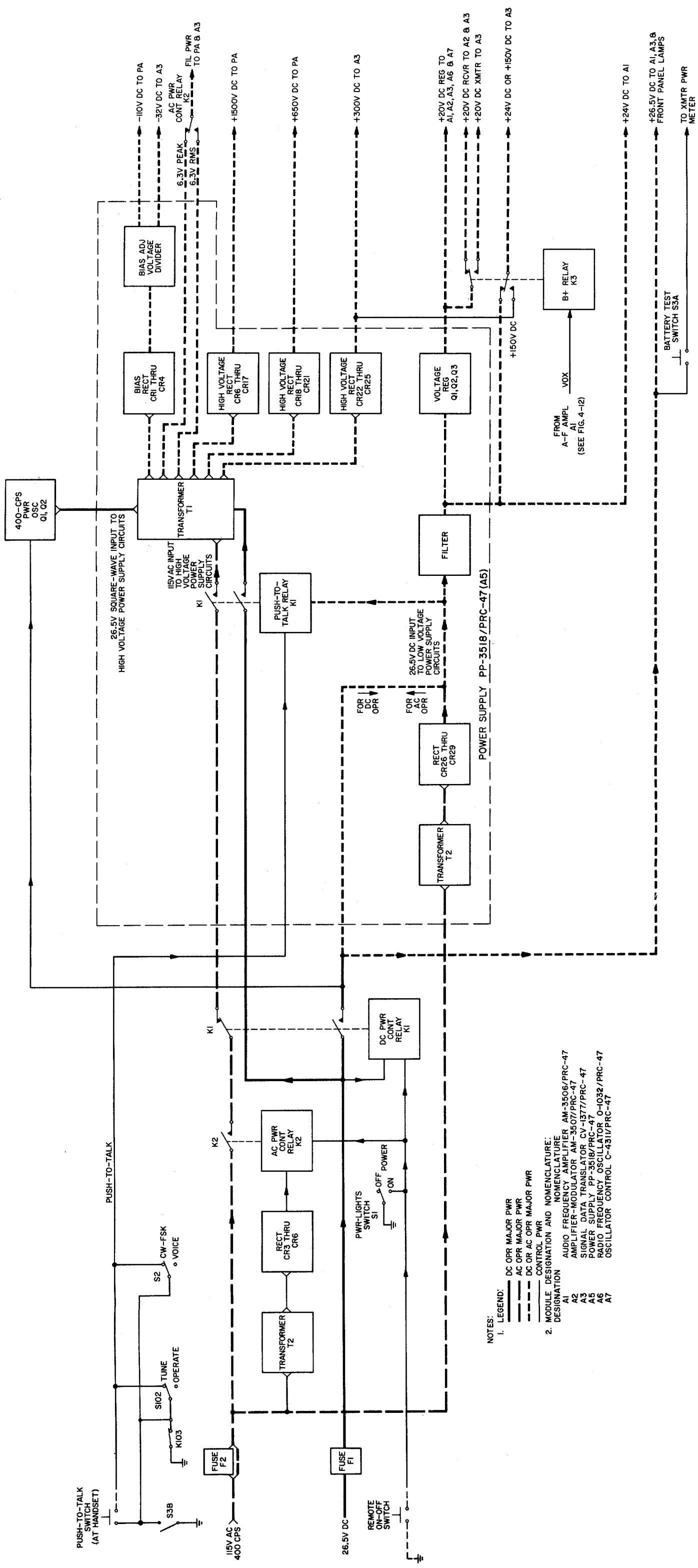
ORIGINAL

[illegible]

Timing Block Diagram

AN/PRC-47
PRINCIPLES OF OPERATION

Figure
4-19



NOTES:

1. LEGEND:

DC OPR MAJOR PWR

AC OPR MAJOR PWR

DC OR AC OPR MAJOR PWR

CONTROL PWR

2. MODULE DESIGNATION AND NOMENCLATURE:

AI AUDIO FREQUENCY OSCILLATOR AM-3506/PRC-47

A2 AMPLIFIER-MODULATOR AM-3507/PRC-47

A3 SIGNAL DATA TRANSLATOR CV-1377/PRC-47

A5 POWER SUPPLY PP-3518/PRC-47

A6 RADIO FREQUENCY OSCILLATOR O-1032/PRC-47

A7 OSCILLATOR CONTROL C-4311/PRC-47

Figure 4-19. Power Supply Circuits, Detailed Block Diagram

ORIGINAL

AN/PRC-47
PRINCIPLES OF OPERATION

Figure
4-12

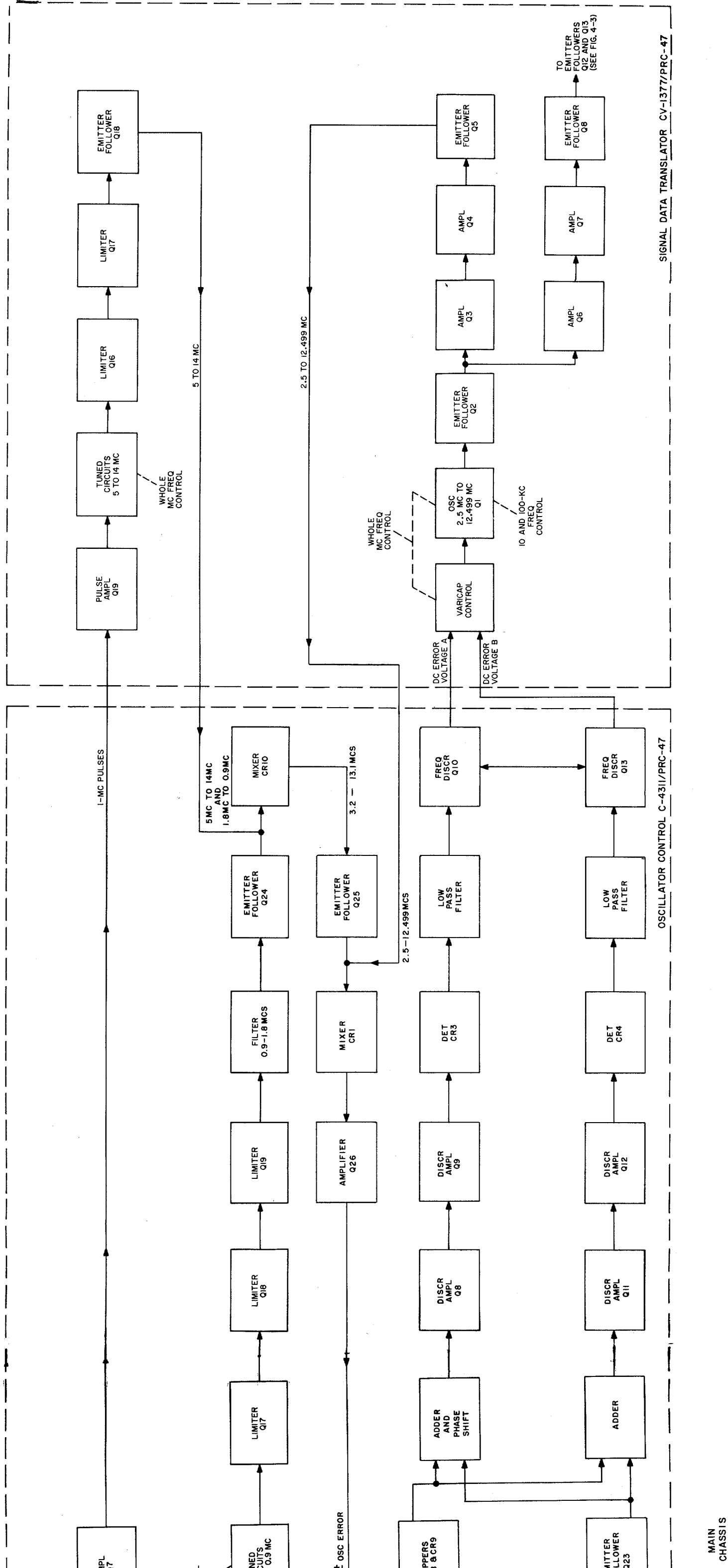


Figure 4-12. Frequency Control Circuits, Detailed Block Diagram

ORIGINAL

