# **AN/PRC-74-B Schematic Diagrams**

From: TM 11-5280-590-35-1

Scanned by: Al Klase, N3FRQ, 29 NOV 2012

Source: 8.5" x 14" copies that might have come from Fair Radio

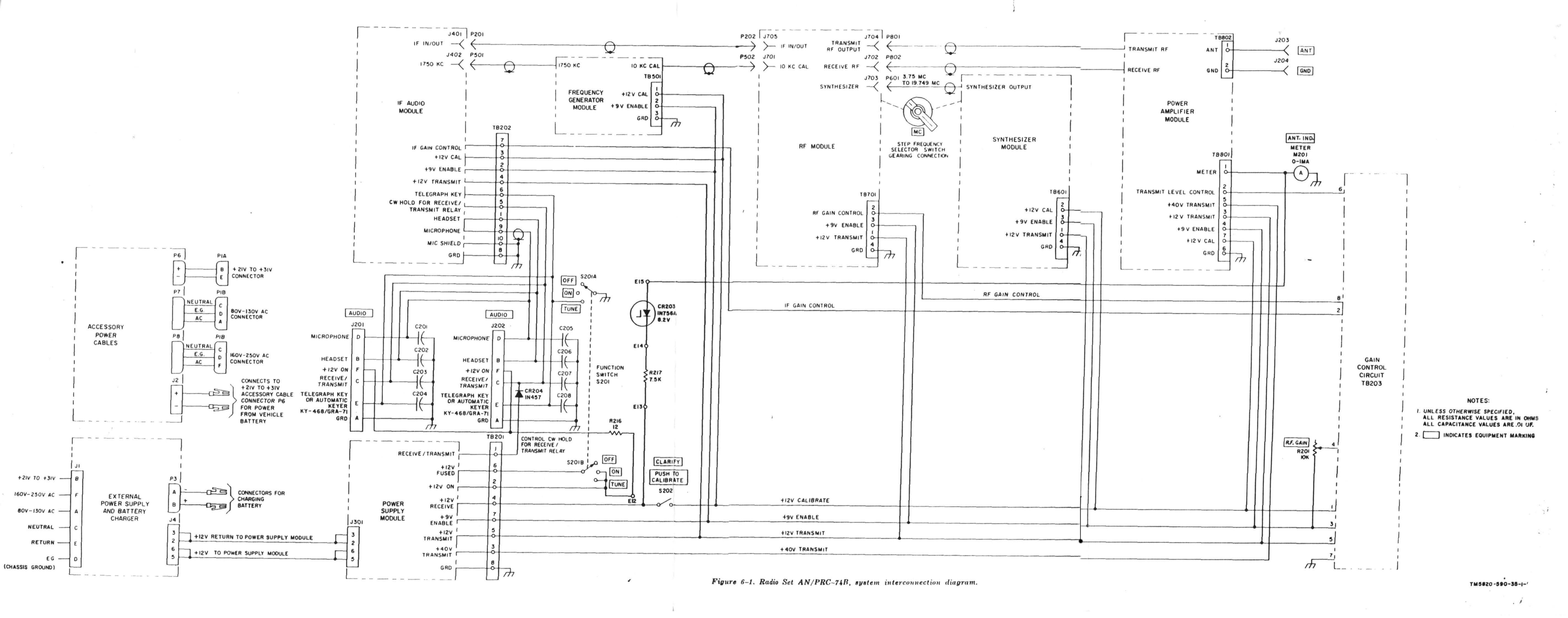
Comments: A better-than-nothing .pdf of this TM is downloadable from Google Books. Search on AN/PRC-74, the TM number does not compute. However, it's missing the fold our schematics contained

herein.

# CHAPTER 6

# SCHEMATIC AND BLOCK DIAGRAMS

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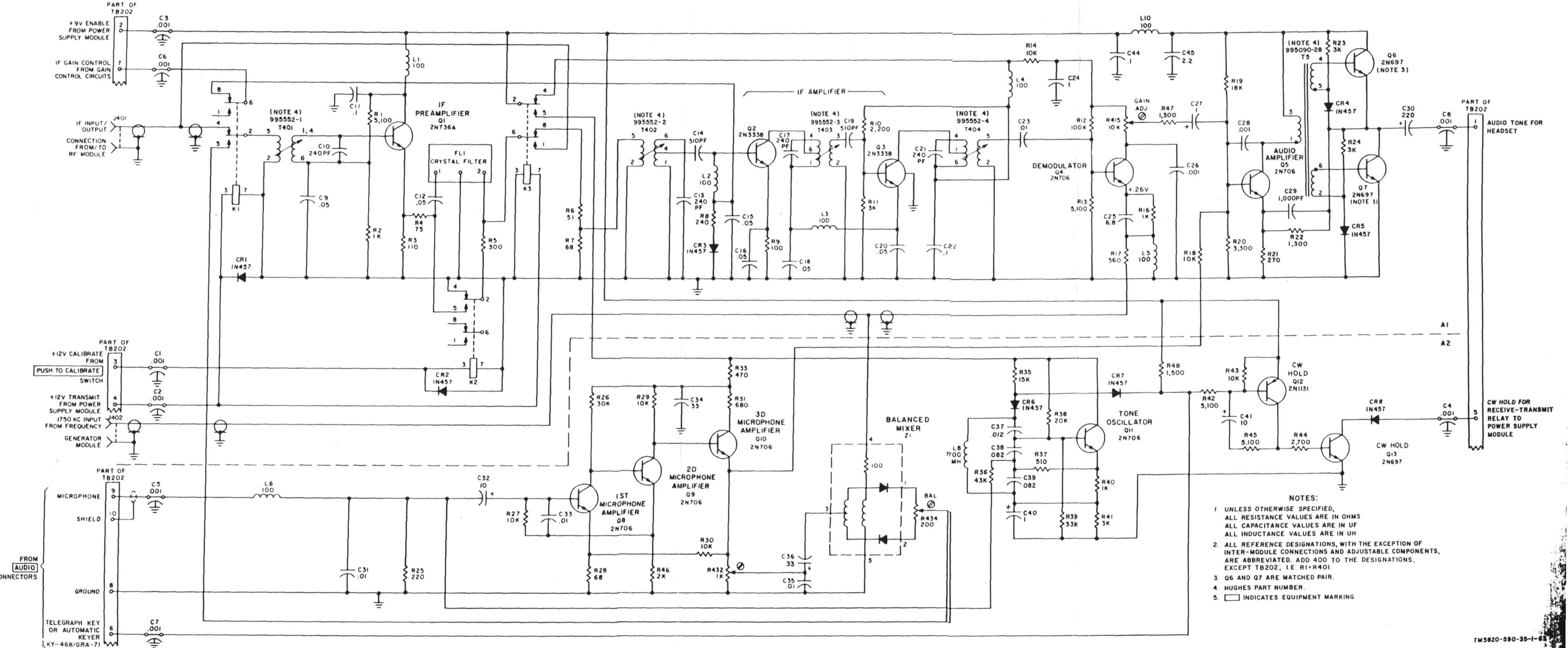
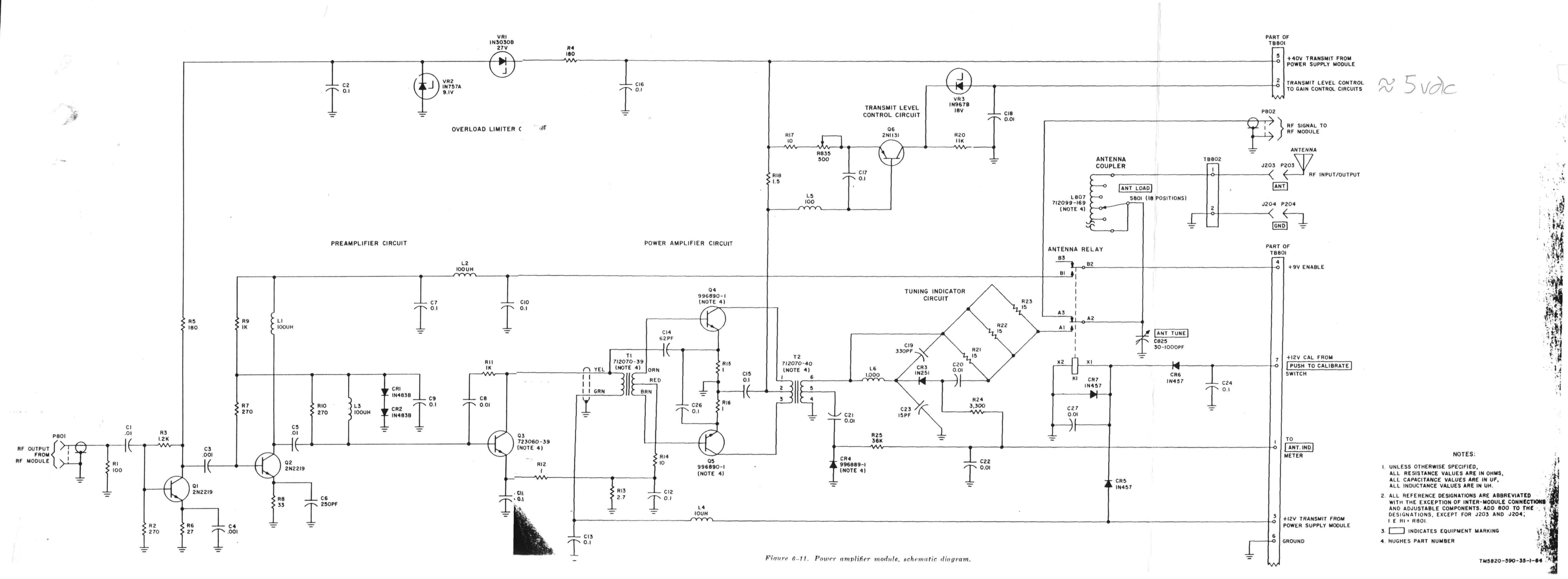


Figure 6-10. IF audio module, schematic diagram.



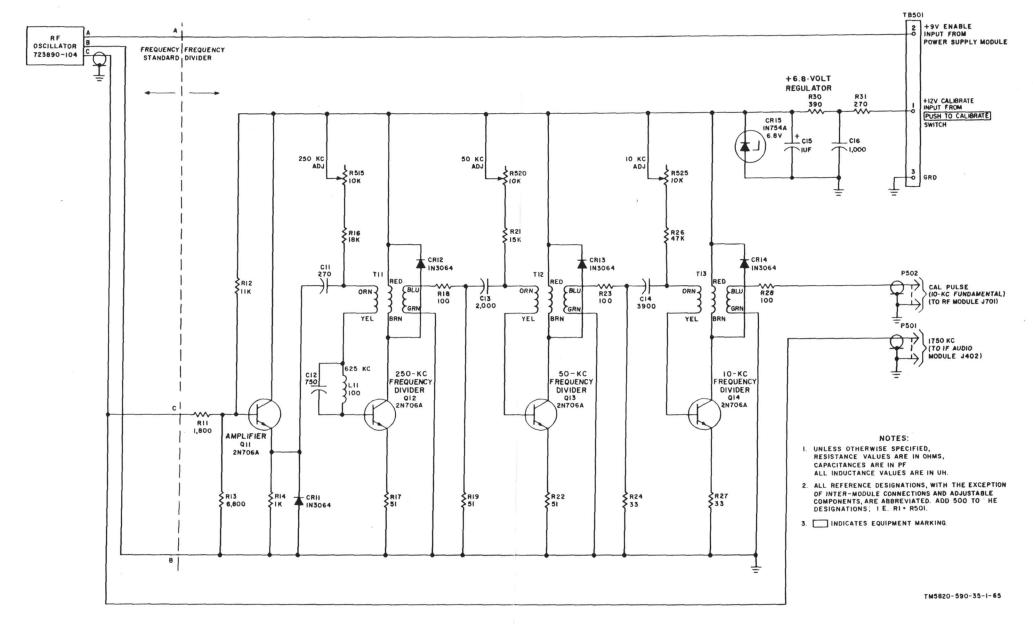
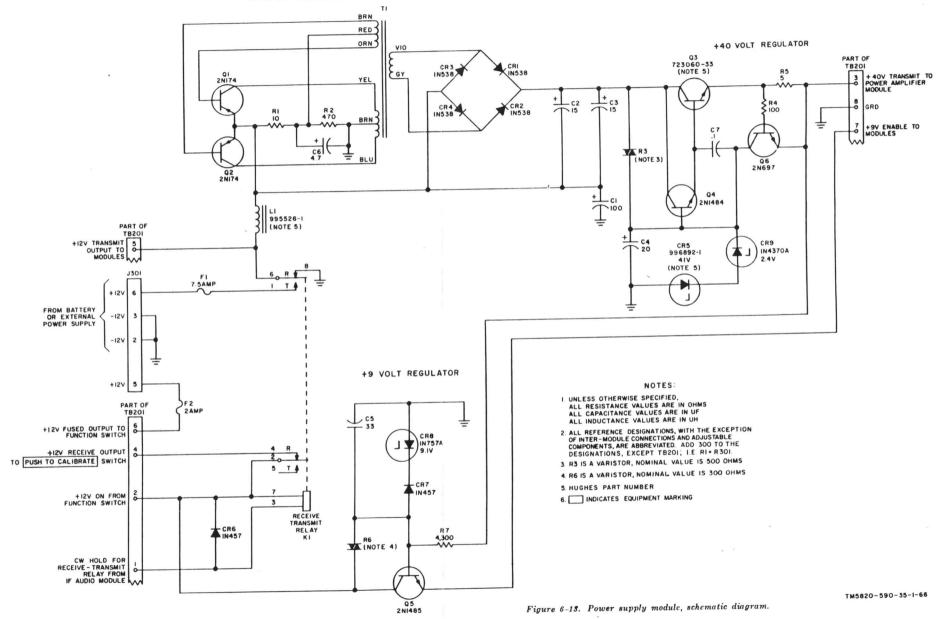


Figure 6-12. Frequency generator module, schematic diagram.



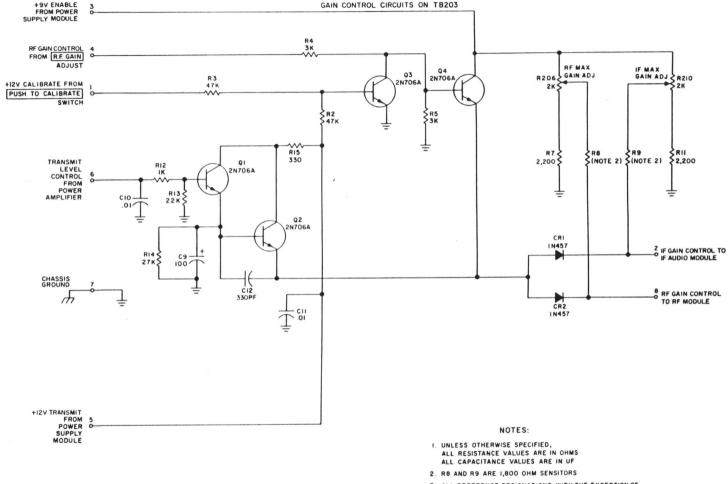


Figure 6-14. Gain control circuits, schematic diagram.

- ALL REFERENCE DESIGNATIONS, WITH THE EXCEPTION OF INTER-MODULE CONNECTIONS AND ADJUSTABLE COMPONENTS, ARE ABBREVIATED. ADD 200 TO THE DESIGNATIONS; I.E. RII - R211
- 4. INDICATES EQUIPMENT MARKING

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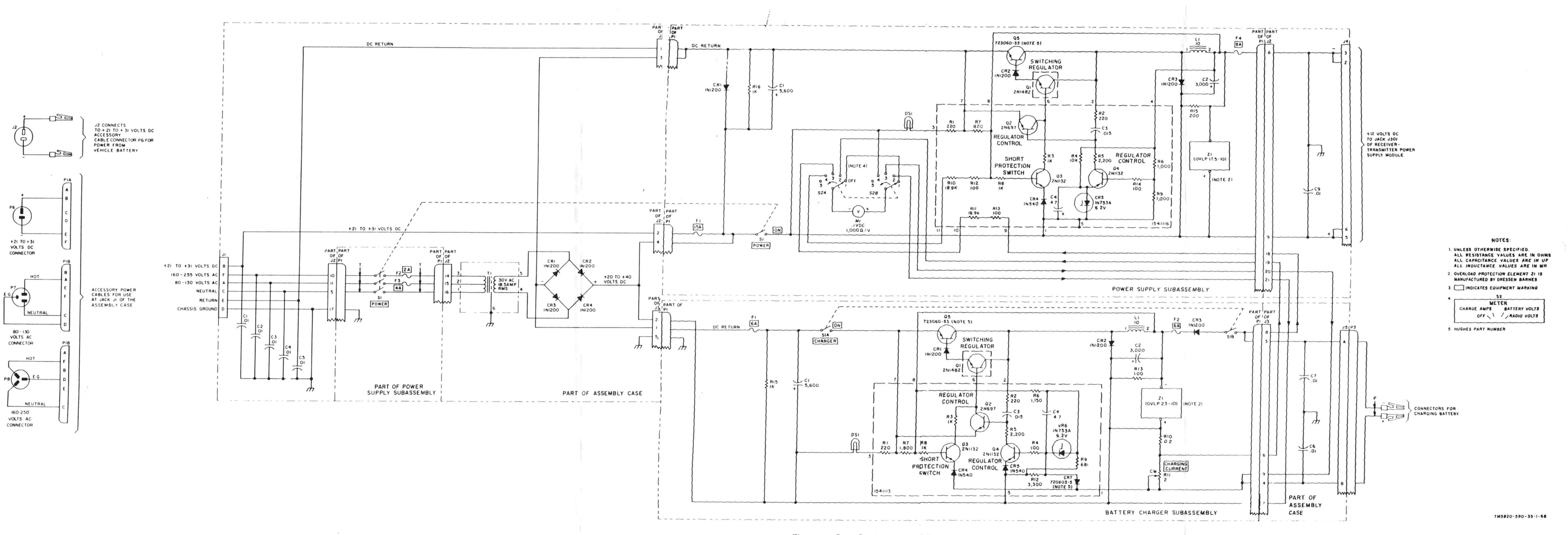


Figure 6-15. Power Supply PP-4514/PRC-74 schematic diagram.

## Malous-Dielectrics, Styles CM, CN, CY. and CB

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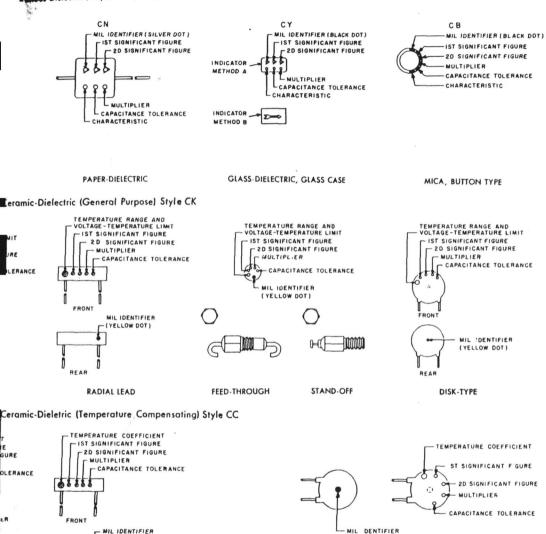
GURE

OLERANCE

(BLACK DOT)

RADIAL LEAD

LERANCE



#### COLOR CODE TABLES

## TABLE I - For use with Group I, Styles CM, CN, CY and CB

COLOR	MIL	1 st SIG	2nd SIG	MULTIPLIER'	CA	PACITANO	E TOLERA	NCE	c	HARAC	TERISTI	C²	DC WORKING VOLTAGE	OPERATING TEMP.	VIBRATION
	ID	FIG	FIG	}	CM	CN	CY	СВ	CM	CN	CY	СВ	CM	CM	CM
BLACK	CM, CY CB	0	0	1			± 20%	± 20%		A				-55° 10 +70°C	10—55 срз
BROWN		1	1	10						E		В			
RED		2	2	100	± 2%		± 2%	± 2 %	C		С			-55" to +85"C	
ORANGE		)	3	1,000		± 30%			D			D	300		
YELLOW		4	4	10,000					E					-55° 10 +125°C	10-2,000 cps
GREEN		5	5		± 5%		,		F				500		
BLUE		6	6		1									-55° to +150°C	
PURPLE		7	7												
GREY		8	8												
WHITE		9	9												
COID				0.1			± 5%	± 5%							
SILVER	CN				± 10%	± 10%	± 10%	± 10%							

### TABLE II - For use with Group II, General Purpose, Style CK

			I ABLE III	

COLOR	TEMP. RANGE AND VOLTAGE - TEMP. LIMITS <sup>3</sup>	SIG FIG	2nd SIG FIG	MULTIPLIER1	CAPACITANCE TOLERANCE	MIL
BLACK		0	0	1	± 20%	
BROWN	AW	1	1	10	± 10%	
RED	AX	2	2	100		
ORANGE	ВX	3	3	000,1		
YELLOW	AV	4	4	10,000		CK
GREEN	CZ	5	5			
BLUE	BV	6	6			
PURPLE IV OLET,		7	7			
GREY		8	8			
WHITE		9	9			
GOLD						
SILVER						

	TEMPERATURE	1 st	2nd		CAPACITANO	E TOLERANCE	MIL
COLOR	COEFFICIENT4	SIG	SIG FIG	MULTIPLIER'	Capacitances over 10uuf	Capacitances 10uuf or less	1D
BLACK	0	0	0	1		± 2.0uuf	cc
BROWN	- 30	1	1	10	± 1%		
RED	- 80	2	2	100	± 2%	± 0.25uuf	
ORANGE	-150	3	3	1,000			
YELLOW	- 220	4	4				
GREEN	- 330	5	5		± 5%	± 0.5uuf	
BLUE	-470	6	6				
PURPLE	- 750	7	7				
GREY		8		0.01			
WHITE		9	9	0.1	± 10%		
GOLD	+100					± 1.0uvf	
SILVER							

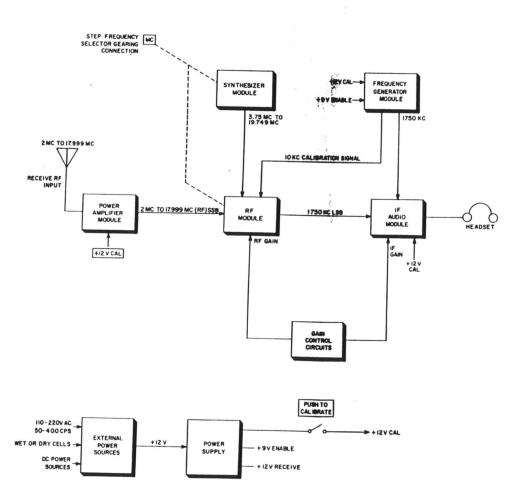
- 1. The multiplier is the number by which the two significant (SIG) figures are multiplied to obtain the capacitance in uuf.
- 2. Letters indicate the Characteristics designated in applicable specifications: MIL-C-5, MIL-C-91, MIL-C-11272 and MIL-C-10950 respectively.
- 3. Letters indicate the temperature range and voltage-temperature limits designated in MIL-C-11015.
- 4. Temperature coefficient in parts per million per degree centigrade.

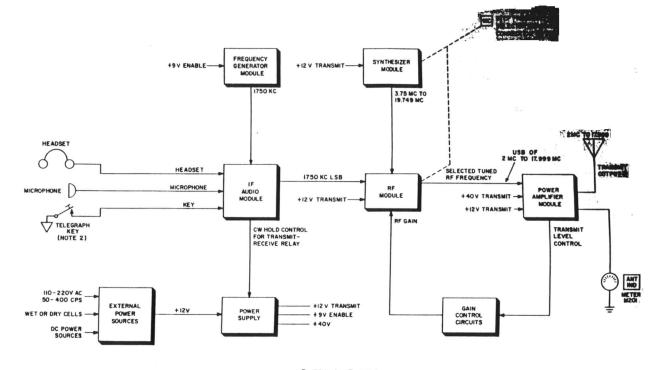
DISK-TYPE

FRONT

BLACK DOT

REAR



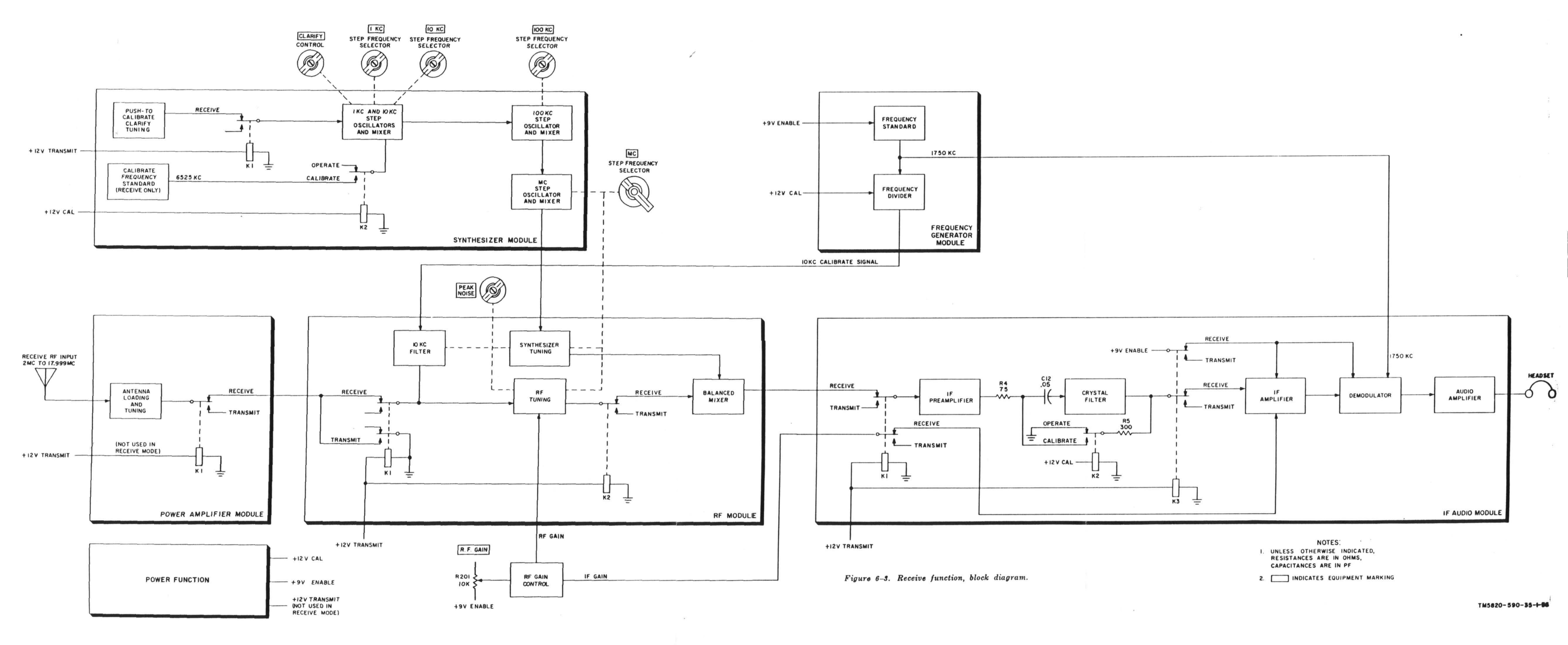


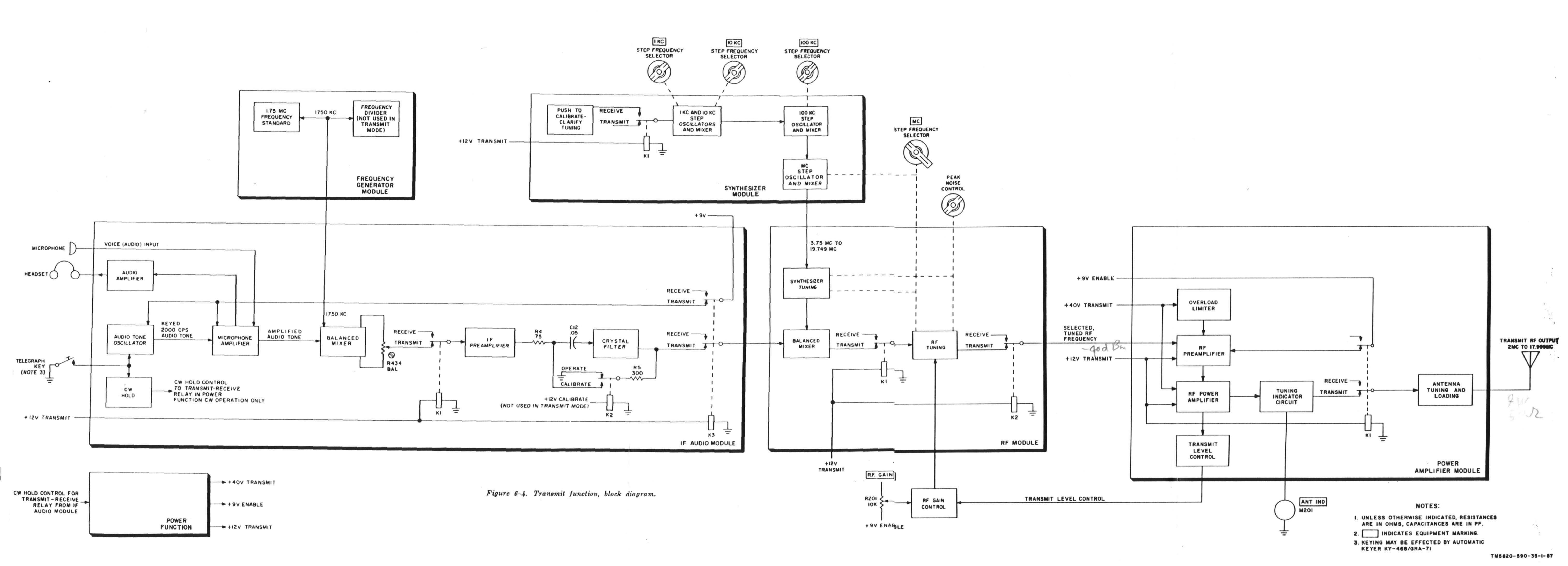
B. TRANSMIT MODE

NOTES:

- I. INDICATES EQUIPMENT MARKING
- 2. KEYING MAY BE EFFECTED BY AUTOMATIC KEYER KY-468/GRA-71

Figure 6-2. Radio Set AN/PRC-74B, operational modes, block diagram.





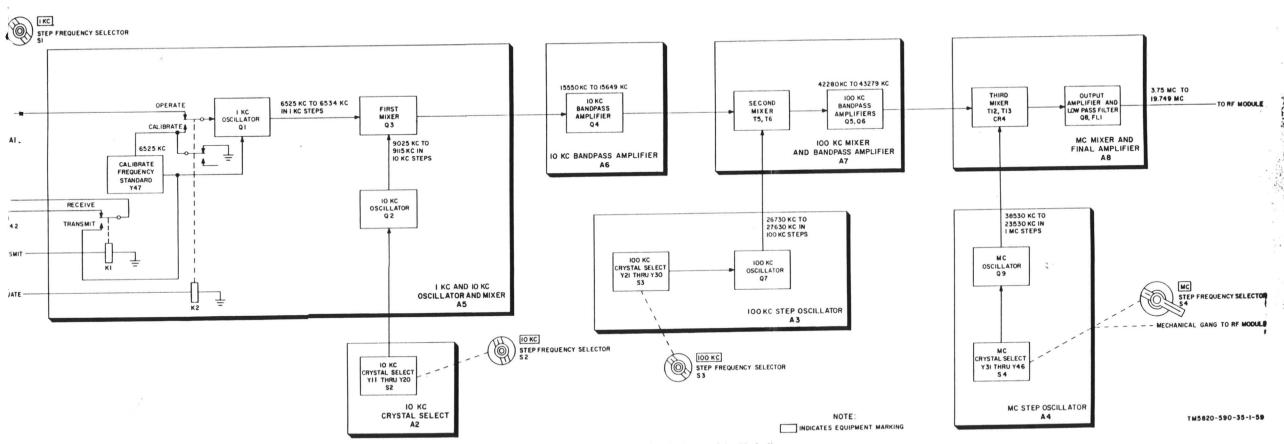


Figure 6-6. Synthesizer module, block diagram.

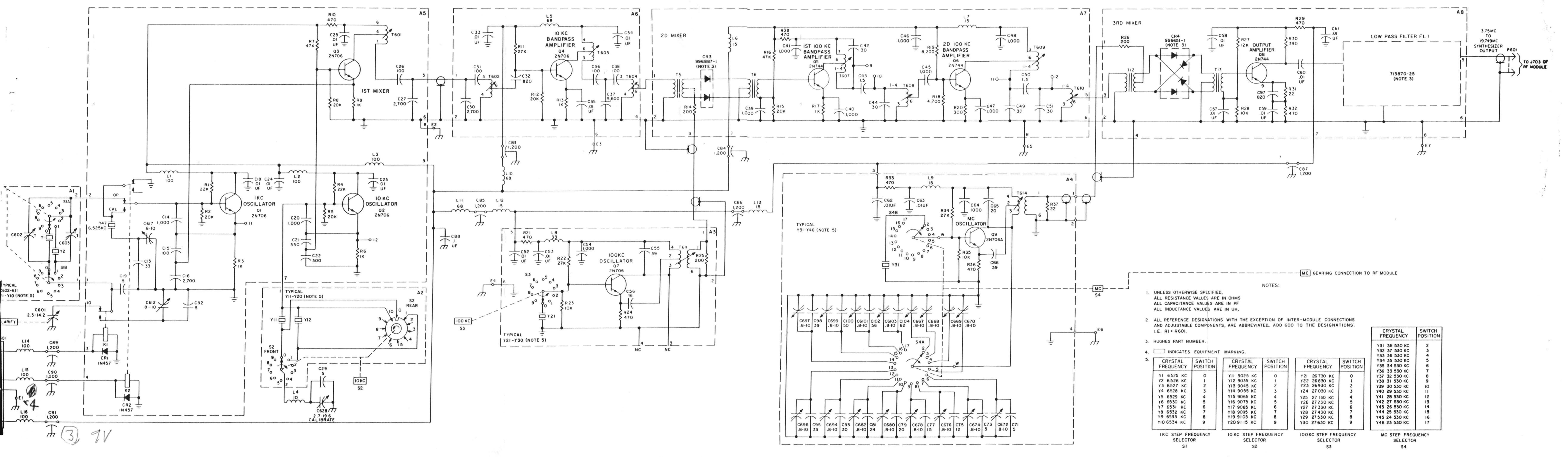
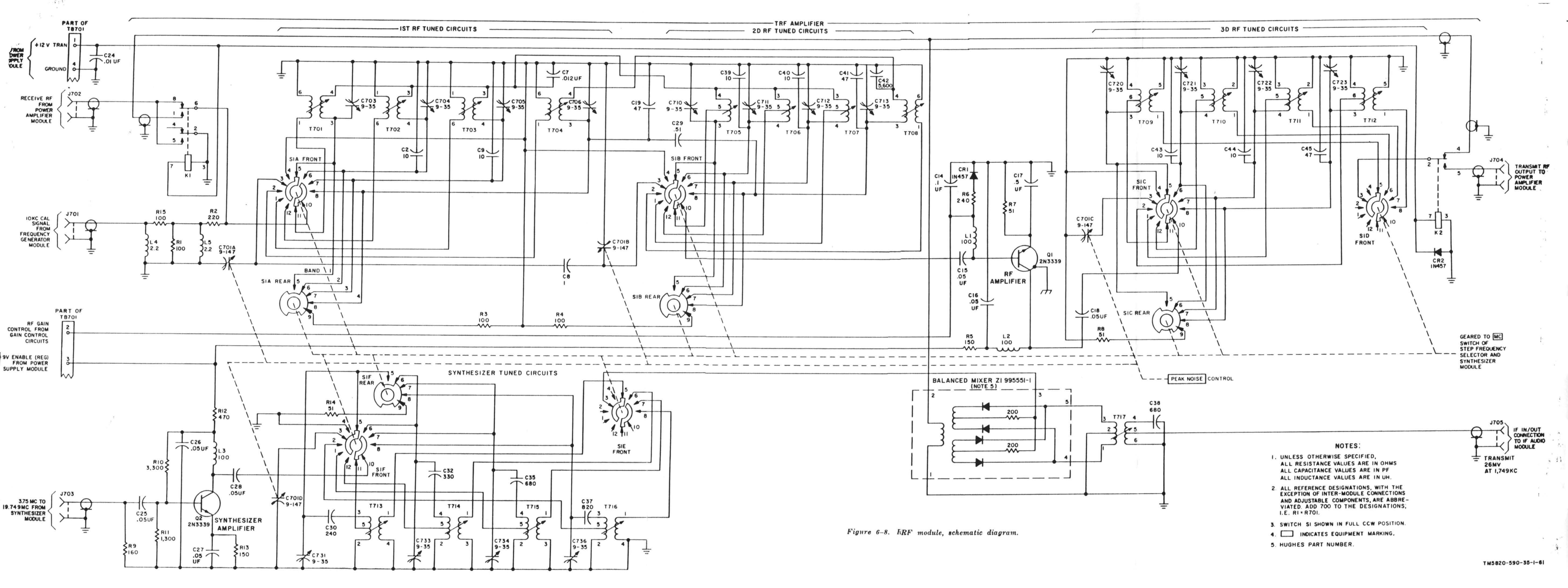


Figure 6-7. Synthesizer module, schematic diagram.



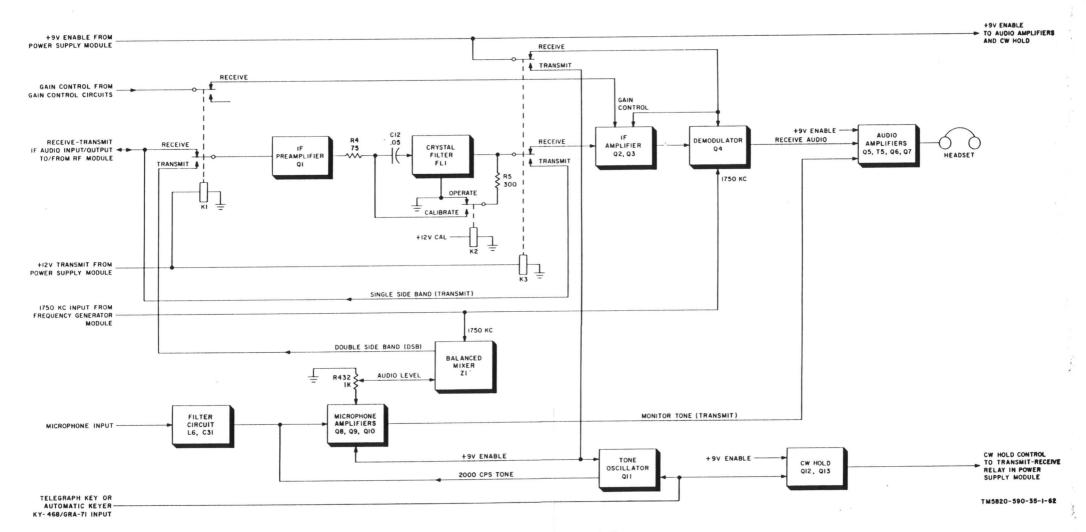


Figure 6-9. IF audio module, block diagram