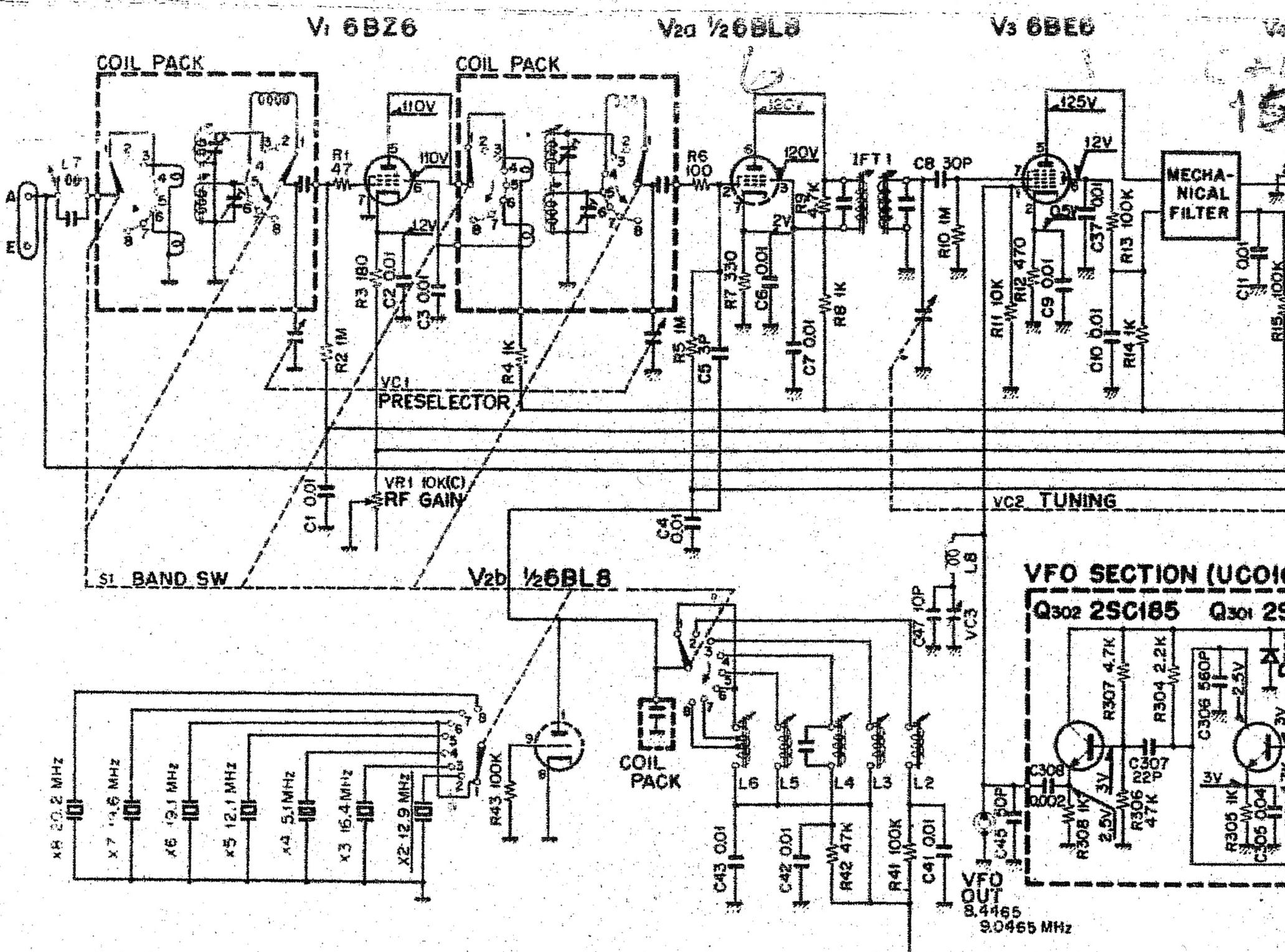


NOTE:  
 ALL VOLTAGE MEASURED WITH V.T.V.M.  
 S1: BAND SW  
 1. WWV    2. 3.5MHz    3. 7MHz    4. 14MHz  
 5. 21MHz    6. 28MHz    7. 28.5MHz    8. 29.1MHz  
 S2: FUNCTION SW  
 1. OFF    2. SSB-CW    3. AM    4. AM-ANL  
 3 = STANDBY

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NOTE:  
 ALL VOLTAGE MEASURED WITH V.T.V.M

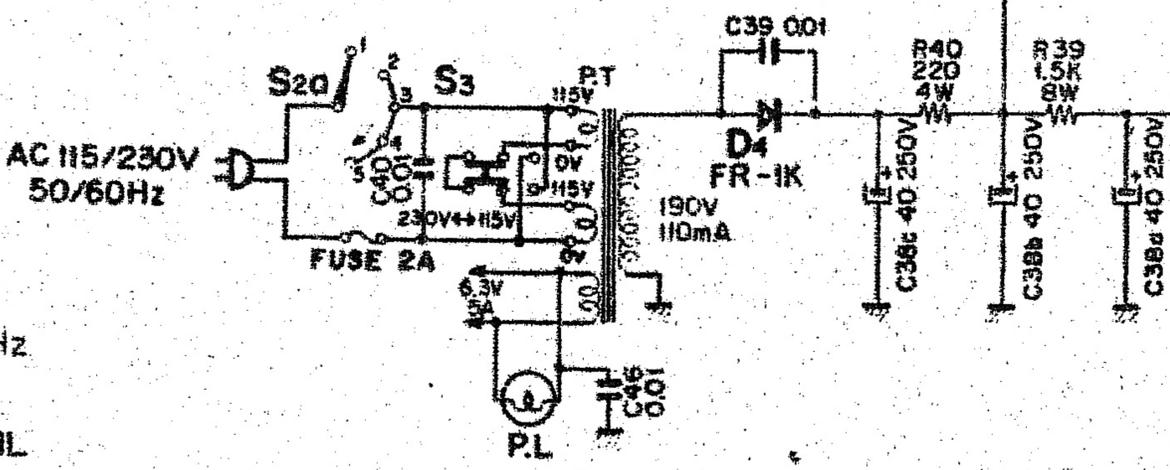
S1: BAND SW

1. WWV	2 3.5MHz	3 7MHz	4 14MHz
5 21MHz	6 28MHz	7 28.5MHz	8 29.1MHz

S2: FUNCTION SW

1. OFF	2 SSB-QW	4 AM	5 AM-ANL
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3 - STANDBY



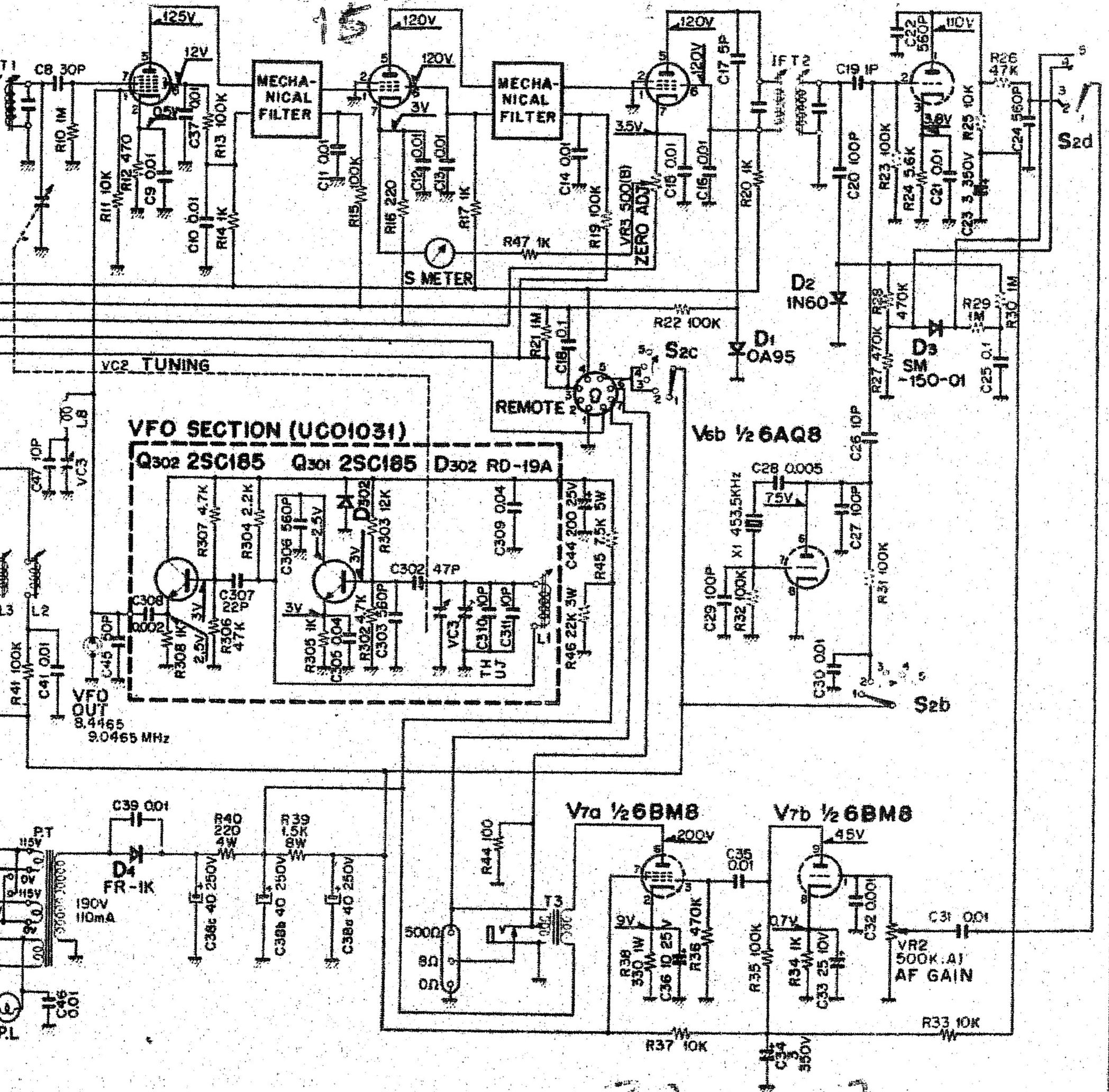
**TRIO**  
 6-5, 1-0

V3 6BE6

V4 6BA6

V5 6BD6

V6a 1/2 6AQ8



JR-500S(E)

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## ALIGNMENT PROCEDURE

Step	ALIGNMENT of	Signal Generator Feeding Point	Sig. Gen. Setting	Band Setting	Dial Setting	Preselector Setting	Adjust for maximum Output
1	2nd IF	(V3) G3 of 6BE6 (Pin 7)	455 kHz				Mechanical Filter and core of IFT2
2	VFO	(V3) " "	9.0 MHz		100 kHz		Core of VFO
3	VFO	(V3) " "	9.4 MHz		500 kHz		Trimmer of VFO
4	Repeat above steps until dial settings are accurate for steps 2 and 3.						
5	1st IF	(V2) G1 of 6BL8 (Pin 2)	9.15 MHz		250 kHz		Core of I. F. T.
6	ANT RF	ANT terminal	3.75 MHz	3.5	" "	Midpoint 3.5 MHz band	3.5 MHz cores (ANT & RF) of Coil Pack
7	" "	" "	14.25 MHz	14	" "	Midpoint 14 MHz band	14 MHz trimmers (ANT & RF) of Coil Pack
8	Repeat Steps 6 and 7 several times.						
9	ANT RF	ANT terminal	21.25 MHz	21	250 kHz	Midpoint 21 MHz band	21 MHz cores (ANT & RF) in Coil Pack
10	" "	" "	28.25 MHz	28.5	" "	Midpoint 28 MHz band	28 MHz Trimmers (ANT & RF) in Coil Pack
11	Repeat steps 9 and 10 several times.						
12	3.5 MHz XTAL OSC.	ANT terminal	3.75 MHz	3.5	250 kHz		3.5 MHz OSC core
13	7 MHz XTAL OSC.	" "	7.25 MHz	7	" "		7 MHz OSC core
14	14 MHz XTAL OSC.	" "	14.25 MHz	14	" "		14 MHz OSC core
15	21 MHz XTAL OSC.	" "	21.25 MHz	21	" "		21 MHz OSC core
16	28 MHz XTAL OSC.	" "	28.25 MHz	28	250 kHz		28 MHz OSC core
17	I F TRAP	" "	9.1 MHz	7	200 kHz	Midpoint 7 MHz band	ADJUST L <sub>7</sub> FOR MINIMUM OUTPUT
18	HARMONIC TRAP			14	200 kHz AREA	Midpoint 14 MHz band	ADJUST VC <sub>3</sub> FOR MINIMUM 200 kHz BEAT

Note: Read black figures on the Dial  
For steps 12 through 16, back off the OSC core adjustment  $\frac{1}{4}$  turn from the maximum output point.

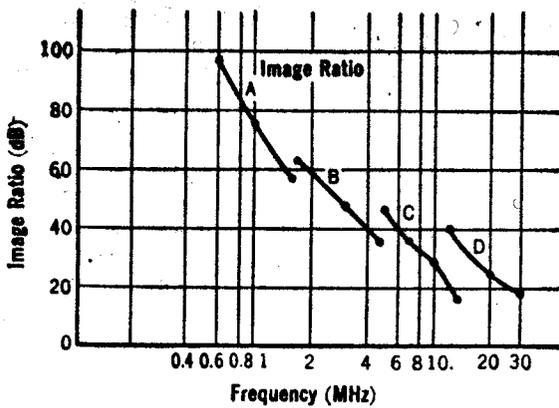


Figure 8 — Image Ratio Characteristics

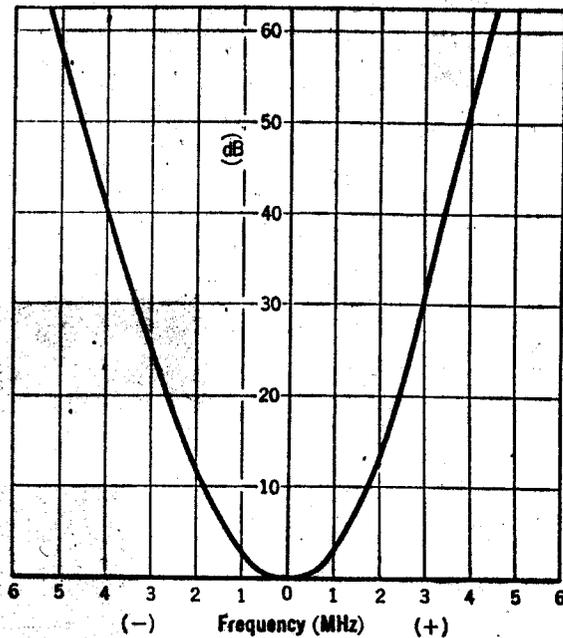


Figure 9 — Selectivity Characteristics Curve

## SPECIFICATIONS

### FREQUENCY RANGES:

550 — 1600 kHz  
 1.6 — 4.8 MHz  
 4.8 — 14.5 MHz  
 10.5 — 30 MHz

### BANDSPREAD:

(Direct Reading on Ham Bands)

3.5 MHz 80m  
 7 MHz 40m  
 14 MHz 20m  
 21 MHz 15m  
 28 MHz 10m

### SENSITIVITY:

A, B, C, BANDS — Less than 6 dB  
 (for 10 dB S/N ratio)  
 D BAND — 13 MHz; Less than 18 dB  
 (for 10 dB S/N ratio)  
 28 MHz; Less than 10 dB  
 (for 10 dB S/N ratio)

### SELECTIVITY:

±5 kHz at -50 dB

### AUDIO POWER OUTPUT:

1.5 watts

### POWER SUPPLY:

AC 115/230 V, 50/60 Hz

### POWER CONSUMPTION:

45 watts

### TUBES & DIODES USED:

6BA6 RF Amplifier  
 6BE6 Mixer  
 6AQ8 Oscillator  
 6BA6 I. F. Amplifier  
 1N60 Detector  
 SW-05S ANL  
 SW-05S 1N60 AVC  
 ½ 6AQ8 BFO  
 ½ 6AQ8 Audio Amplifier  
 6AQ5 Audio Power Output  
 SW-05 × 2 Rectifier  
 1N60 For S Meter

### RECOMMENDED SPEAKER TYPE:

4 or 8 ohm permanent magnet dynamic speaker  
 (requires no output transformer)

### DIMENSIONS:

7" H, 15" W, 10" D.

### WEIGHT:

18.8 lbs.

### BUILT-IN CIRCUITS:

Bandspread  
 Automatic Noise Limiter (ANL)  
 Automatic Volume Control (AVC)  
 Head phone Jack