

RESISTORS

| Symbol | Description |
|--------|--|
| R1 | 22,000 ohm 1/2 watt |
| R2 | 1 meg ohm 1/2 watt |
| R3 | 1 meg ohm Volume Control & Off-On Switch (SW1) |
| R4 | 4.7 meg ohms 1/2 watt |
| R5 | 470,000 ohms 1/2 watt |
| R6 | 470,000 ohms 1/2 watt |
| R7 | 150 ohms 1/2 watt |
| R8 | 33 ohms 1 watt |
| R9 | 1000 ohms 1 watt |

CONDENSERS

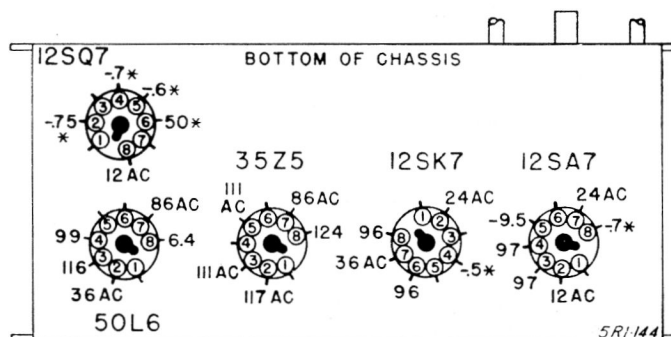
| | |
|------|--|
| C1a | Gang 0 to 420 mmfd |
| C1b | Gang 0 to 108.0 mmfd (Spot welded to drum) |
| C2 | 50 mmfd Ceramic |
| C3 | 250 mmfd Ceramic |
| C4 | .01 mfd, 400 volts |
| C5 | 250 mfd, 500 volts |
| C6 | .01 mfd, 400 v. paper |
| C7 | .02 mfd, 400 v. paper |
| C8 | .1 mfd, 200 v. paper |
| C9 | .03 mfd, 400 v. paper |
| C10a | .50 mmfd 150 volts |
| C10b | .30mmfd 150 v.) Elec. |
| C11 | .03 mfd 400 v. paper |
| C12 | .1 mfd 400 v paper |

COILS, TRANSFORMERS,
Etc.

| | |
|-----|--|
| L1 | Antenna Loop |
| L2 | Coil, Oscillator |
| T1 | Transformer, 1st IF |
| T2 | Transformer, 2nd I.F. |
| T3 | Transformer, Output |
| | Speaker (5" P.M.) and output Transformer |
| SW1 | Switch On-Off Part of R3 |

VOLTAGE DATA

- All readings made between tube socket terminals and B minus (terminal of On-Off switch).
- Dial turned to low frequency end; volume control at minimum.
- Measured on 117 Volts AC line. When measured from DC line, voltages may be slightly lower.
- Voltages measured with Vacuum Tube Voltmeter. Readings taken with a 1,000 ohm per volt meter will be approximately the same except for those marked with an asterisk * in the voltage chart; these readings will either be lower or practically zero.



ALIGNMENT PROCEDURE

- Connect output meter across voice coil.
- Turn receiver volume control full on.
- Use an isolation transformer if available, otherwise connect a .1 mfd. condenser in series with low side of signal generator and attach to B minus of chassis.
- Use lowest output setting of signal generator capable of producing adequate output meter indication and then proceed as outlined in chart below.
- Repeat adjustments to insure good results.

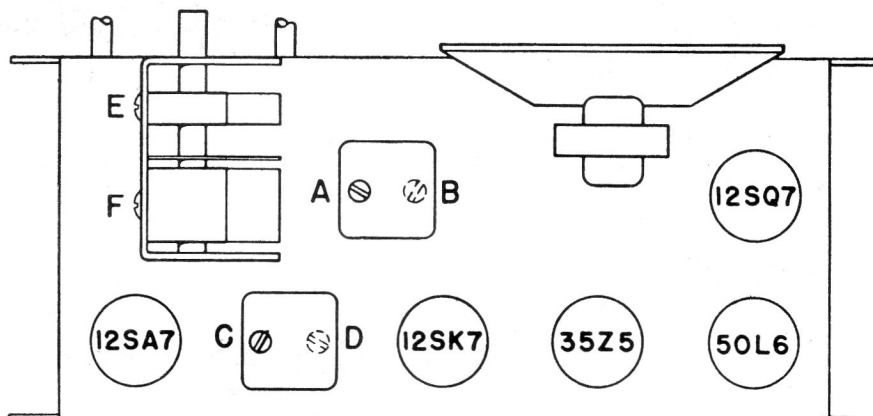
NOTE

To avoid splitting the slotted head of powdered iron core tuning slugs in I.F. transformers, use an alignment tool having a blade $\frac{1}{8}$ " wide.

| Step | Dummy Antenna in Series with Signal Generator | Connection of Signal Generator (High Side) | Signal Generator Frequency | Receiver Gang Setting | Trimmer Description | Trimmer Designation | Type of Adjustment |
|------|--|--|----------------------------|--------------------------|----------------------|---------------------|--------------------|
| 1 | .05 mfd. condenser | Tuning condenser Antenna stator | 455 KC | Gang fully open | 2nd IF 1st IF | A, B C, D | Maximum Output |
| 2 | 250 mmfd. condenser | Tuning condenser Antenna stator | 1620 KC | Gang fully open | Oscillator (on gang) | E | Maximum Output |
| 3 | Loop of several turns of wire (or place generator lead close to receiver loop for adequate signal). | No physical connection (signal by radiation) | 1400 KC | Tune in generator signal | Antenna (on gang) | F | Maximum Output |
| 4 | Upon completion of alignment, install chassis in cabinet. Mount and set dial pointer as shown in Dial Stringing and Pointer Setting Diagram. | | | | | | |

NOTE: Adjustments B and D are made from underside of chassis. In case of permeability tuned I.F.

TUBE AND TRIMMER LOCATION



POINTER SETTING AND DIAL CORD STRINGING

