

# ALIGNMENT PROCEDURE

Allow unit to heat for a few minutes before starting alignment.  
 Volume control set to maximum.  
 Output meter across speaker.  
 Align for maximum output.  
 Keep input as low as readable meter reading of output will permit.

Note: If signal generator is AC operated, use an isolating transformer between the power supply and the radio receiver power input. The use of an isolating capacitor is not recommended as AC through the capacitor will introduce hum and/or create the possibility of a burned out signal generator attenuator.

| FREQUENCY | SIGNAL GENERATOR COUPLING CAPACITOR | GROUND CONNECTION TO RADIO | GROUND CONNECTION | TUNING CONDENSER SETTING | ADJUST TRIMMERS FOR MAXIMUM OUTPUT (in order shown)      |
|-----------|-------------------------------------|----------------------------|-------------------|--------------------------|--|
| 455 KC    | 0.1 mfd                             | Converter grid             | B-                | Wide open                | 2nd IF transformer trimmer<br>1st IF transformer trimmer |
| 1720 KC   | 200 mmf                             | Receiver antenna post      | Chassis           | Wide open                | Oscillator trimmer C3                                    |
| 1500 KC   | 200 mmf                             | Receiver antenna post      | Chassis           | Tune for maximum output  | Antenna trimmer C1                                       |

| SYMBOL | TITLE                           | VALUE       | RATING  | TOLERANCE | PART NO   |
|--------|---------------------------------|-------------|---------|-----------|-----------|
| C1     | Antenna trimmer                 |             |         |           | * SCT-013 |
| C2A    | Variable Condenser ant. section |             |         |           | SCT-013   |
| C2B    | Variable Condenser osc. section |             |         |           | *         |
| C3     | Oscillator trimmer              |             |         |           | UCU-036   |
| C8     | Mica capacitor                  | 220 mmf     | 500WVDC | ±20%      | UCC-044   |
| C9     | Paper capacitor                 | .005mfd     | 600WVDC | +40-15%   | UCU-036   |
| C10    | Mica capacitor                  | 220 mmf     | 500WVDC | ±20%      | UCC-040   |
| C11    | Paper capacitor                 | .01mfd      | 600WVDC | ±20%      | UCC-041   |
| C12    | Paper capacitor                 | .02mfd      | 600WVDC | ±20%      | SCE-026   |
| C13A   | Electrolytic capacitor          | 30mfd       | 150WVDC |           | SCE-026   |
| C13B   | Electrolytic capacitor          | 30mfd       | 150WVDC |           | UCC-045   |
| C14    | Paper capacitor                 | .05mfd      | 600WVDC | ±20%      | UCC-045   |
| C15    | Paper capacitor                 | .05mfd      | 600WVDC | ±20%      | UCC-045   |
| C16    | Paper capacitor                 | .05mfd      | 600WVDC | ±20%      | UCC-040   |
| C17    | Paper capacitor                 | .01 mfd     | 600WVDC | ±20%      | UCC-048   |
| C19    | Paper capacitor                 | .1mfd       | 600WVDC | +20-10%   | UCC-041   |
| C20    | Paper capacitor                 | .02mfd      | 600WVDC | ±20%      | UCC-044   |
| C21    | Paper capacitor                 | .005mfd     | 600WVDC | +40-15%   | URD-081   |
| R1     | Carbon resistor                 | 22,000 ohm  | ½ W     | ±20%      | SRD-070   |
| R2     | Carbon resistor                 | 2.2 megohm  | ½ W     | ±20%      | URD-137   |
| R3     | Volume control                  | 0.5 megohm  |         |           | URD-113   |
| R4     | Carbon resistor                 | 4.7 megohm  | ½ W     | ±20%      | URD-113   |
| R5     | Carbon resistor                 | 470,000 ohm | ½ W     | ±20%      | URD-029   |
| R6     | Carbon resistor                 | 470,000 ohm | ½ W     | ±20%      | URE-059   |
| R7     | Carbon resistor                 | 150 ohm     | ½ W     | ±20%      | URD-007   |
| R8     | Carbon resistor                 | 2700 ohm    | 2 W     | ±20%      | URD-113   |
| R9     | Carbon resistor                 | 18 ohm      | ½ W     | ±10%      | URD-041   |
| R10    | Carbon resistor                 | 470,000 ohm | ½ W     | ±20%      | URD-113   |
| R11    | Carbon resistor                 | 470 ohm     | ½ W     | ±20%      |           |
| R12    | Carbon resistor                 | 470,000 ohm | ½ W     | ±20%      |           |

