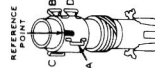
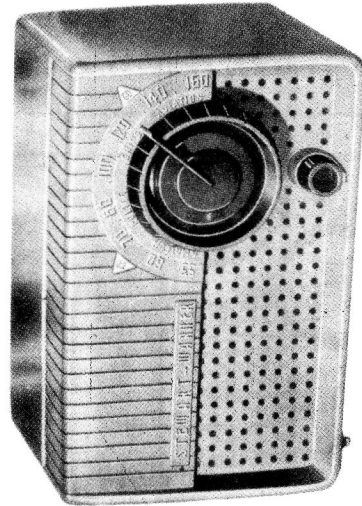


**BAND SWITCH 521655**



**BC. OSC. COIL 521756**

Lettered terminals in illustration correspond to similarly lettered terminals on the circuit diagram.



### I.F. 455 KC.

### VOLTAGE MEASUREMENTS

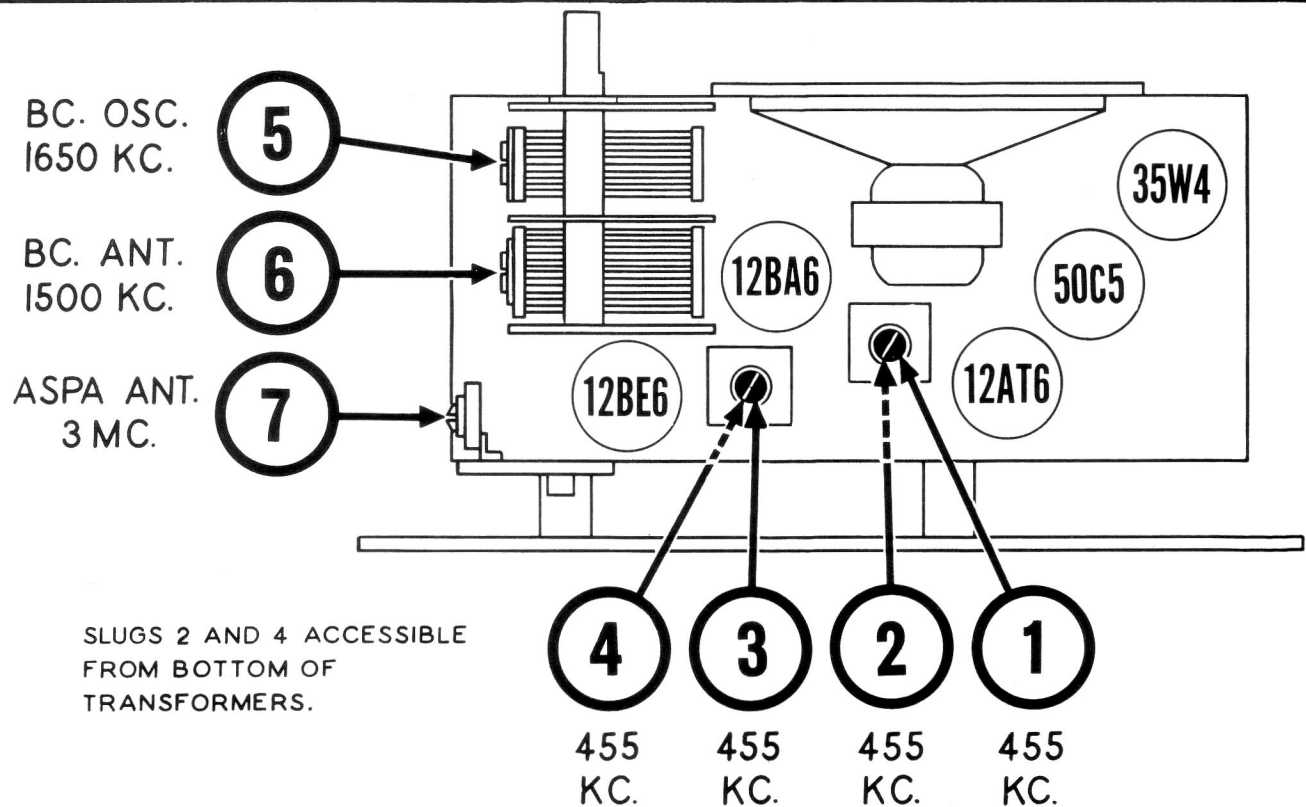
All voltages measured to B—using a 20,000 ohm per volt meter with the receiver connected to a 117 volt 60 cycle power supply.

Loop terminals shorted together. No voltage reading at a tube element indicates zero voltage or voltage which cannot be accurately measured with a 20,000 ohm per volt meter.

**ALIGNMENT PROCEDURE**

1. Remove chassis and loop antenna, as a unit, from cabinet as follows: Pull Tuning and Volume knobs straight off of their respective shafts, pry off the two retaining clips at top of cabinet back, and remove the two chassis mounting screws at bottom of cabinet. (NOTE: Do not disturb the two externally mounted screws at bottom of cabinet back. These screws serve to mount loop and back to chassis frame.) Chassis with loop antenna can now be withdrawn from cabinet.
  2. Connect an output meter across the speaker voice coil or from the plate of the 50C5 tube to B— through a 0.1 Mfd. condenser.
  3. Connect ground lead of signal generator to a B— terminal.
- CAUTION: If your signal generator is designed with an AC-DC power supply, connect ground lead to a B— terminal through a 0.25 Mfd. condenser.
4. Set volume control at maximum and use a weak signal from the signal generator.
  5. Operate the receiver from 117 volt AC or DC power line.

DUMMY ANT. IN SERIES WITH SIGNAL GENERATOR	CONNECT HIGH SIDE OF GENERATOR TO	SIGNAL GENERATOR FREQUENCY	BAND SWITCH POSITION	RECEIVER DIAL SETTING	TRIMMER NUMBER	TRIMMER DESCRIPTION	TYPE OF ADJUSTMENT
200 MMFD. Mica Condenser	Lug on Trimmer #6 at side of gang. (See chart below for location of trimmer.)	455 KC	Broadcast	Any point where it does not affect the signal	1-2	2nd I.F.	Adjust for maximum output. Then repeat adjustment.
					3-4	1st I.F.	
200 MMFD. Mica Condenser	External Antenna lead on Cabinet Back	1650 KC	Broadcast	Turn Gang Condenser fully open	5	Broadcast Oscillator	Adjust for maximum output.
200 MMFD. Mica Condenser	External Antenna lead on Cabinet Back	1500 KC	Broadcast	Tune to 1500 KC generator signal	6	Broadcast Antenna	Adjust for maximum output.
The adjustment of oscillator trimmer #5 made during Broadcast band alignment, also sets the oscillator for the ASPA band. It is not necessary to touch this trimmer during ASPA band alignment.							
400 OHM Resistor	External Antenna lead on Cabinet Back	3 MC	ASPA BAND	Tune to 3 MC generator signal	7	ASPA Antenna	Adjust for maximum output. Try to increase output by detuning trimmer and returning receiver dial until maximum output is obtained.
Set generator for 1.8 Mc. signal. Tune receiver to be sure that this signal is received.							



**TOP VIEW OF CHASSIS TRIMMER LOCATIONS**