

# TRAVLER

## Model 55C42, 55C46

These two models are almost identical electrically. The circuit of Model 55C42 shown below will also apply to 55C46. Separate tube and trimmer location diagrams are shown. Alignment procedure is identical for both models.

Remove the chassis from the cabinet for alignment. A signal generator is required having the following frequencies: 455 KC, 535 KC, 1400 KC, 1630 KC. An output meter should be connected across the speaker.

**FIRST STEP:** Connect the hot lead from the generator to the ANT. section of the gang condenser through a .1 MFD. condenser. The ground lead from the generator must be connected to "B" minus under the chassis. Turn the gang condenser to complete minimum capacity. Set the generator to 455 KC. Adjust the movable iron cores in the IF cans. The IF adjustments are made in the top and in the bottom of the cans. Adjust the cores until a maximum reading is noted on the output meter.

The volume control of the receiver should be turned to maximum during the IF and all subsequent alignment and the generator output as low as possible to prevent the AVC from working and giving false readings.

**SECOND STEP:** With the leads from the generator still connected as in IF alignment, adjust the generator to 1630 KC. Make sure that the gang condenser is turned to complete minimum capacity. Adjust the generator to 1630 KC and adjust the oscillator trimmer of the receiver until the signal is tuned in. Next, turn the gang condenser to complete maximum capacity. Adjust the generator to 535 KC, then adjust the iron core in the end of the oscillator coil until the signal is tuned in. It may be well to recheck the 1630 KC setting to make sure that the adjustment of the iron core has not shifted the frequency.

**THIRD STEP:** Remove the generator leads from the gang condenser and the chassis. Loosely couple the generator to the antenna by laying the hot generator lead near the loop antenna. Set the generator at 1400 KC and tune in the 1400 KC signal on the receiver. Adjust the ANT. trimmer until a maximum signal is noted on the output meter.

No further adjustment should be necessary as the coils and gang condenser in this receiver have been specially handled at the factory to insure proper alignment at the lower frequencies.

