

Electrohome

683-S & 683-S1

Alignment Information

I. F. ALIGNMENT

Set the signal generator to 456 K.C., and connect the output to the grid cap of the 6A8 tube through a .1 Mfd. condenser. The generator ground is connected to the chassis ground post or frame, which must be externally grounded. The receiver dial is set to its highest frequency (gang open), the selector switch turned to the broadcast position, and the volume control turned full on.

The I. F. trimmers, located as shown on the tube layout chart, are then adjusted by means of a non-metallic screw driver until maximum output results.

R. F. ALIGNMENT

Broadcast Band

1500 K. C. Set the signal generator to 1500 K.C., and connect its output lead to the antenna post of the receiver in series with a .00025 Mfd. condenser. The ground from the signal generator must be connected to the chassis ground post or frame and externally grounded.

With the band selector switch in the broadcast position, the dial of the receiver set at 1500 K.C. and the volume control turned full on, adjust the broadcast oscillator trimming condenser, located as shown on the tube layout chart, until a signal is heard. **Note:** There may be two signals present, use the one obtained by the minimum capacity setting of the trimming condenser and adjust it to its peak. Then adjust the broadcast antenna and pre-selector trimming condensers to maximum output.

600 K.C. Set the receiver dial and the signal generator to 600 K.C. Adjust the 600 K.C. padding condenser for maximum output. While making this adjustment rock the tuning control back and forth through the signal until maximum output results.

Following this, it is advisable to repeat the procedure outlined for 1500 K.C. to compensate for any slight discrepancy caused by the adjustment of the series padding condenser.

Intermediate Band

5 M. C. Set the signal generator to 5 M.C. and connect its output to the antenna post of the receiver through a 400 ohm resistor. The ground of the signal generator is connected to the chassis frame or ground post and externally grounded. Turn the band selector switch to intermediate band, the receiver dial to 5 M.C. and the volume control full on.

Adjust the intermediate oscillator trimming condenser, shown on the tube layout chart, until a signal is heard. **Note:** There may be two signals present, use the one obtained by minimum capacity setting and adjust the trimming condenser to the peak of the signal. Then adjust the intermediate antenna trimming condenser for maximum output.

2 M. C. The intermediate padding condenser is adjusted at 2 M.C. The same procedure as outlined for the adjustment of the 600 K.C. padding condenser is used only, of course, on 2 M.C. instead of 600 K.C.

Short Wave Band

15 M.C. and 6 M.C. The same procedure is employed as outlined for the intermediate band only, of course, the parallel trimming condenser is adjusted at 15 M.C. and the series padding condenser at 6 M.C.

The high frequency sensitivity is as follows:

15 microvolts at 5 M.C., 25 microvolts at 2 M.C., 12 microvolts at 15 M.C., 28 microvolts at 6 M.C.