



For alignment of all bands, the controls should be set as follows unless otherwise stated.

VOLUME set to maximum

BFO set to OFF

NOISE LIMITER set to OFF

STANDBY-MVC-AVC-CAL set to MVC

BANDSPREAD pointer set to SET MAIN TUNING

BAND SWITCH set to band being aligned

I.F. ALIGNMENT. See Figure 32.

#### BAND A

.53mc to 1.9mc (broadcast band)

Connect an antenna to terminal 1 of TS-1 (marked ANT on the chassis). See section on antenna.

Plug the AC line cord in a 110 v. 60 cycle outlet.

At the low end of BAND A tune in a local broadcast station with the MAIN TUNING dial.

Insert the plastic tuning rod through the top of T-3 until it engages the bottom tuning slug. Adjust this slug for maximum volume, then adjust the top tuning slug for maximum.

Similarly adjust T-2, then T-1.

**NOTE:** L-1 to L-10 have been preadjusted at the factory. Only a slight adjustment will be necessary to peak these coils. These adjustments are made from the bottom of the chassis with the bottom cover attached.

#### BAND A

At the HIGH END of the band, tune in a local broadcast station whose frequency of transmission is known.

Simultaneously adjust the MAIN TUNING and C-6 until the signal being received is loudest and at the correct location on the dial.

Tune in a known frequency at the LOW END of the band.

Simultaneously adjust the MAIN TUNING and L-6 until the signal being received is loudest and at the correct location on the dial.

Without changing the MAIN TUNING dial, adjust L-1 for maximum volume. Because of interaction between C-6 and L-6 it will be necessary to repeat these adjustments several times for best accuracy.

#### BAND B

1.8mc to 6.3mc (80 meters)

Rotate the ANTENNA control until it is almost counterclockwise.

Tune in station WWV at 5mc. In some areas, WWV can only be received at night.

Simultaneously adjust the MAIN TUNING and L-7 until WWV is loudest and the dial pointer reads 5mc.

Adjust L-2 for maximum volume.

#### BAND C

6mc to 14.4mc (20 and 40 meters)

ANTENNA control to center of rotation.

Tune to station WWV at 10mc.

Simultaneously adjust the MAIN TUNING and L-8 until WWV is loudest and the dial pointer reads 10mc.

Tune L-3 for maximum volume.

#### BAND D

11.5mc to 33mc (10 and 15 meters)

ANTENNA control almost fully counterclockwise.

Tune to station WWV at 15mc. WWV can be received best during the day.

Simultaneously adjust MAIN TUNING and L-9 until WWV is loudest and the dial pointer reads 15mc.

Tune L-4 for maximum volume.

#### BAND E

47mc to 54mc (6 meters)

ANTENNA control almost fully clockwise.

MAIN TUNING set to 6 METERS.

Rotate the BANDSPREAD to a strong signal of known frequency.

Simultaneously adjust the BANDSPREAD and L-10 until the signal is loudest and at the correct location on the BANDSPREAD dial.

Tune L-5 for maximum volume.