

- ☐ Set the receiver to zero beat with the crystal marker at 9 MC.
- ☐ Set the VFO dial to 54 MC.
- ☐ Adjust C-2 to zero beat the VFO with the receiver.
- ☐ Repeat the above steps to obtain the desired accuracy.

#### ALIGNMENT WITH CRYSTALS

For this alignment procedure a different crystal for the low and high ends of each band is necessary.

#### 80 METER BAND

- ☐ Set the BAND switch to 80, the XTAL-VFO switch to XTAL and the FUNCTION switch to VFO SPOT.
- ☐ Plug the crystal for the low end of the band into the crystal socket.
- ☐ Tune the receiver to zero beat with the crystal-frequency—the receiver BFO should be on. After tuning the receiver DO NOT change the setting.
- ☐ Set the VFO dial to the frequency of the crystal.
- ☐ Place the XTAL-VFO switch in the 80 meter position. Allow a minute for the VFO to warm up.
- ☐ Adjust L-3 to zero beat the VFO with the receiver.
- ☐ Set the XTAL-VFO switch to the XTAL position and plug the crystal for the high end of the band into the crystal socket.
- ☐ Tune the receiver to zero beat with the crystal frequency.
- ☐ Set the VFO dial to the frequency of the crystal.
- ☐ Place the XTAL-VFO switch in the 80 meter position.
- ☐ Adjust C-4 to zero beat the VFO with the receiver.
- ☐ Repeat the above steps to obtain the desired accuracy.

#### 40 METER BAND

Use the same procedure as the 80 meter band alignment with the following exceptions.

- ☐ The BAND and XTAL-VFO switches are in the 40 meter positions.
- ☐ Adjust C-3 for the high end of the band.
- ☐ Adjust L-2 for the low end of the band.

#### 6 METER BAND

Use the same procedure as the 80 meter band alignment with the following exceptions.

- ☐ The BAND and XTAL-VFO switches are in the 6 meter positions.
- ☐ Adjust C-2 for the high end of the band.
- ☐ Adjust L-1 for the low end of the band.

#### ON THE AIR ALIGNMENT

This is done by zero beating the VFO frequency with a known operating frequency, such as another Ham operating with a crystal oscillator or an accurately calibrated VFO. When using this method an adjustment at the high and low ends of each band is necessary.

#### 80 METER BAND

- ☐ Set the VFO dial to the known frequency.
- ☐ Adjust L-3 for the high end of the band.
- ☐ Set the VFO dial to the known frequency.
- ☐ Adjust C-4 for the low end of the dial.
- ☐ Repeat the above steps to obtain the desired accuracy.