screwdriver.

() Turn the Transceiver tuning dial to 0.

beat from the calibrated receiver.

() Adjust trimmer capacitor C302B until you hear a zero

() Turn the Transceiver dial to 250. VFO (Variable Frequency Oscillator) () Turn the calibrated receiver dial to 7.250 MHz. () Turn the calibrated receiver on and allow it to warm up. Tune the receiver to approximately 7.0 MHz. () Use the larger alignment tool to turn the slug in coil L9 until you hear a zero beat from the calibrated () Press the 7.0 MHz pushbutton on the Transceiver. receiver. It may be necessary to turn down the calibrated receiver's AF gain control. () Connect one end of a suitable length of wire to the antenna terminal on the calibrated receiver. Loop the () Repeat the VFO alignment steps several times until other end of this wire around coil L19/L21 as shown in the calibrated receiver's dial coincides with the 0 and inset drawing #2 on Figure 1-2. 250 marks on the Transceiver's dial. () Turn the Transceiver on and allow it to warm up for at () Turn off the calibrated receiver and remove the wire least 30 minutes before you proceed with the from around coil L19/L21 in the Transceiver. The following adjustments. calibrated receiver will no longer be used. NOTE: In the following steps, you will zero beat the calibrated receiver; first against its own crystal calibrator, MIXER AMPLIFIER and then against the Transceiver. A zero beat is a point where the two frequencies being combined (or beat against () Turn the Transceiver tuning dial to 100. each other) are exactly the same. As you approach zero beat, the tone caused by the two combined frequencies will () Connect the RF Probe of the VTVM to test point gradually decrease in pitch and volume until it stops. This TP2. This is the lead at the indicated end of R49, a point is very sharp so you must tune very carefully. 270 Ω (red-violet-brown) resistor. () Set the calibrated receiver's Function switch to the () Press the 3.5 MHz pushbutton and adjust coil L13 for SSB or CW position. a peak reading on the VTVM. () Tune the calibrated receiver to 7.0 MHz. Then turn on () Press the 7.0 MHz pushbutton and adjust coil L14 for its crystal calibrator and zero beat the receiver a peak reading on the VTVM. frequency against the crystal calibrator frequency. () Turn off the crystal calibrator. NOTE: Be careful that you do not change the setting of the receiver () Press the 14.0 MHz pushbutton and adjust coil L15 frequency. for a peak reading on the VTVM. () Refer to inset drawing #1 of Figure 1-2 and insert the () Turn the Transceiver tuning dial to 150. metal blade (#205-778) into the small end of the plastic nut starter. NOTE: When you perform the next step, you may have to NOTE: Use the alignment tool that you made from the nut starter and blade for all trimmer adjustments. DO NOT use a

turn the coil slug several turns counterclockwise before you obtain a peak reading on the VTVM.

() Press the 21.0 MHz pushbutton and adjust coil L16 for a peak reading on the VTVM.

() Disconnect the RF Probe from Test point TP2.