

## TROUBLESHOOTING CHART

TRANSMITTER DIFFICULTIES	POSSIBLE CAUSE
CARRIER NULL control changes carrier level, but not to a low enough level.	<ol style="list-style-type: none"> <li>1. FUNCTION switch in TUNE position, inserting carrier.</li> <li>2. Crystal diodes CR1 through CR4 installed backwards or are faulty.</li> <li>3. Transformer T1 incorrectly aligned.</li> </ol>
No relative power indication.	<ol style="list-style-type: none"> <li>1. Resistor R61 burned out, due to transmitting without antenna.</li> <li>2. Antenna shorted.</li> <li>3. TUNE LEVEL set too low.</li> </ol>
Chopped or broken modulation, especially on peaks.	<ol style="list-style-type: none"> <li>1. MIC GAIN control set too high.</li> <li>2. Faulty microphone cable or connections.</li> <li>3. Receiver cutoff bias line partially shorted. Check voltages and resistances.</li> </ol>
Radical change in BIAS SET reading.	<ol style="list-style-type: none"> <li>1. Changed power supplies without rechecking transmitter adjustment.</li> </ol>
Transceiver locked in transmit mode.	<ol style="list-style-type: none"> <li>1. VOX DELAY control set too high.</li> <li>2. Push-to-talk button stuck in depressed position.</li> <li>3. Tube V10 faulty.</li> </ol>
Plates of RF final amplifier tubes get red hot.	<ol style="list-style-type: none"> <li>1. No bias on tubes. Check voltage and resistances.</li> </ol>
Very low input to grids of RF final amplifier tubes from driver V5.	<ol style="list-style-type: none"> <li>1. Coils L2 and L3 improperly installed. Check color dot markings.</li> <li>2. T2 not aligned properly.</li> </ol>

RECEIVER DIFFICULTIES	POSSIBLE CAUSE
Receiver squeals and oscillates with no antenna connected.	<ol style="list-style-type: none"> <li>1. Transmitter cutoff bias line partially shorted, turning on portions of the transmitter. Check voltages and resistances.</li> </ol>
Received signals cannot be tuned in properly.	<ol style="list-style-type: none"> <li>1. Other station operating on other sideband. Try other portions of the dial.</li> </ol>
No sound from speaker.	<ol style="list-style-type: none"> <li>1. Speaker unplugged or faulty.</li> <li>2. Unit is transmitting.</li> </ol>