

heard and point 7 checked out properly, it must be assumed that the crystal diode is defective.

Points 9 - 10 - 11 - 12 - 13

These are also audio test points. The Tester is set up as an Audio Amplifier as for Test Point 8. The Audio Signal can now be traced with the Input Probe from Detector to Voice coil of the speaker. Any interruption of signal would indicate a defective stage or component.

SIGNAL INJECTION

Test Points 8 - 9 - 10 - 11 - 12 - 13

These points are located in the Audio section therefore the Tester is set up as an Audio Generator for signal injection. The Function Selector is switched to the 600 cps Audio position. The Output Attenuator to maximum clockwise position and the MOD switch to the ON position.

As mentioned earlier, when troubleshooting using the signal injection method, the procedure is to start with the speaker and work back to the Antenna. Starting with the speaker, the Output Cable of the tester is connected across the voice coil. A faint but audible 600 cycle tone should be heard in the speaker of the radio. If no tone is heard, the speaker is defective. With a tone present at the voice coil, the Output cable is then moved back to Test Point No. 12 and so on, back to test point 8.

As the Output Cable is moved back toward the Detector, additional gain is picked up. It is therefore recommended that the Output Attenuator be reduced to prevent overloading of the radio. Any interruption of signal as the Output Cable is moved back through the various test points would indicate a defective stage or component.

Test Points 2 - 3 - 4 - 5 - 6 - 7

These are intermediate Frequency test points. The tester is therefore set up as an RF Generator, modulated with a 600 cycle audio tone so that the detected signal can be heard by the speaker of the radio.

The Function Selector is set to the 200-600 KC OSC position.

The Output Attenuator to maximum and the MOD switch to ON. The tuning dial is set to the proper IF frequency either 455 KC or 262 KC.

The Output Cable is connected between point 7 and ground. A tone should be heard from the speaker. If not, the crystal diode is defective.