

The variable condenser is varied until a station is heard on the speaker of the tester. This indicates that the Antenna Coil and variable condenser are functioning properly. If nothing is heard, either Antenna Coil or variable condenser is defective.

Test Point 1A

With the same setup of the tester as in #1, the probe is moved to 1A. Here the signal should be reduced in level. This is because of the stepdown action of the Antenna Coil transformer. Transistors are current amplifying devices and therefore stepdown transformers are used to step down the voltage and increase the current.

Test Point 2

This is the collector of the converter transistor. The radio at this point should be turned on. Two signals are available at this point. The amplified RF signal and a weak IF signal. To pick up the RF signal the tester is set up as for point #1 and the Input probe touched to this point. The variable condenser may have to be retuned slightly for highest output.

To pick up the IF signal, the tester is set up to receive the intermediate frequency. The function selector is set to 200-600 KC REC, the tuning dial is set to the proper frequency, 455 KC or 262 KC. If no IF signal is heard at this point, the local oscillator in the radio is not functioning.

Test Point 2A

This is used for signal injection and will be described later under signal injection.

Test Points 3 - 4 - 5 - 6 - 7

These are IF signal Test points. The tester is set up to receive the intermediate frequency. The input probe is touched to each one of these points in sequence. The Input Gain control should be decreased when proceeding to each succeeding stage of higher gain. It should be noted that when checking the input and output of each IF transformer that a slight decrease in gain will be noted. This is normal and is due to the step down action of the IF transformers. However, if the signal is interrupted at any one of these points, a defective stage is indicated.

Test Point 8

This is the Detector. Audio should be present at this point. The test is set up as an Audio Amplifier. The Function Selector is set to the Audio Amplifier position. Both Input Gain and Output controls are set to maximum. The Input probe is touched to Point 8. Audio should be heard as the radio is tuned. If no signal is