



IN CASE OF DIFFICULTY

1. Recheck the wiring. Trace each lead in colored pencil on the Pictorial at it is checked. It is frequently helpful to have a friend check your work. Someone who is not familiar with the unit may notice something consistently overlooked by the builder.
2. About 90% of the kits that are returned for repair do not function properly due to poor connections and soldering. Therefore, many troubles can be eliminated by reheating all connections to make sure that they are soldered as described in the Proper Soldering Techniques section of the Kit Builders Guide.
3. Check to be sure that all tubes and cable connections are in their proper locations. Make sure that all tubes light up properly.
4. Check the tubes with a tube tester or by substitution of tubes of the same types that are known to be good.
5. Check the values of the parts. Be sure that the proper part has been wired into the circuit, as shown in the pictorial diagrams and as called out in the wiring instructions.
6. Check for bits of solder, wire ends or other foreign matter which may be lodged in the wiring.
7. If, after careful checks, the trouble is still not located and an ohmmeter and voltmeter are available, check the resistance and voltage readings against those shown in Figures 6-1 (fold-out from Page 51), 6-2, 6-3 (fold-out from Page 52), and 6-4 (fold-out from Page 55). NOTE: All voltage readings were taken with an 11 megohm input digital voltmeter. Voltages may vary as much as $\pm 10\%$.
8. A review of the Circuit Descriptions will help you to know where to look for trouble.
9. Check the power supply and antenna.

NOTE: To aid in servicing or troubleshooting the Transceiver, refer to the Circuit Board X-Ray Views (fold-out from Page 66) and Chassis Photos shown in Figures 7-1 through 7-3 on Pages 64, 65, and 66.

Breaks in the foil of the circuit board can be detected by placing a bright light under the foil side of the board and looking through the board from the lettered side. A break will appear as a hair-line crack in the foil.

SHIPPING INFORMATION

If you should find it necessary to return your Transceiver to the Heath Company, refer to the Shipping Instructions in the Kit Builders Guide. Also, if you have the plug-in Crystal

Calibrator, some packing material should be placed around it to keep it in place in the kit. Otherwise it may work loose and break the tubes in the Transceiver during shipping.