

IN THE COLLINS 75A-2 RECEIVER

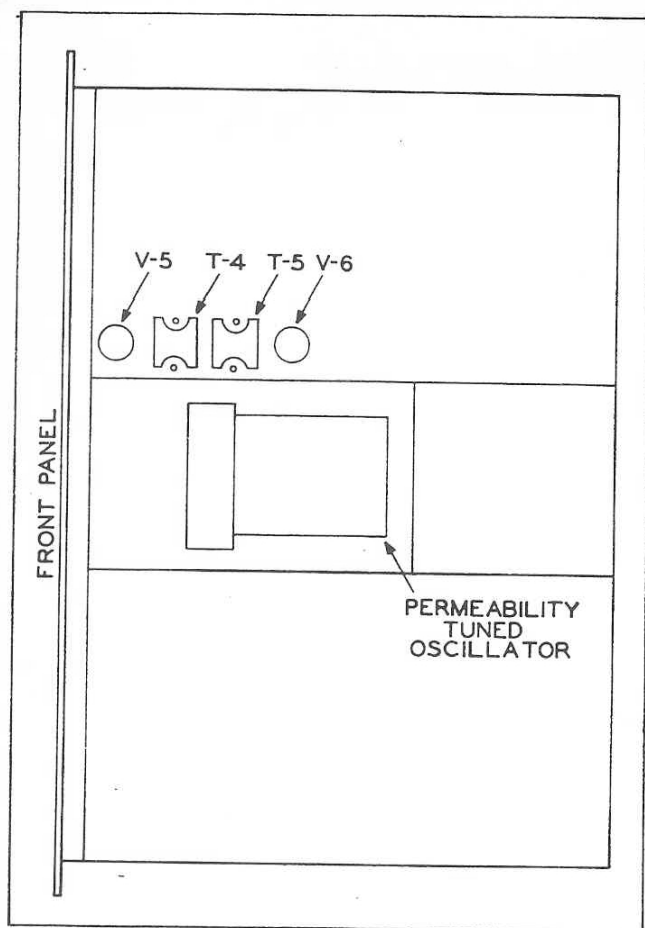


Figure 1. Locations of T-4 and T-5 in the 75A-2 Receiver (Bottom View)

Tools Required: Number 8 Bristo wrench, screwdriver, Phillips screwdriver, soldering iron, solder, sidecutters.

Read the entire instruction sheet before beginning installation of the Mechanical Filter Adapter. Do not under any circumstances use acid-core solder.

Check off each step as it is completed.

- 1. Remove the four large Phillips-head screws near the corners of the 75A-2 front panel and the two Phillips-head screws on the bottom of the cabinet near the two rear rubber feet. Slide the receiver out of the cabinet.
- 2. The receiver must be wired for broad-band operation. If the receiver is connected for narrow band, it must be converted to broad-band as outlined in the maintenance section of the 75A-2 instruction book.

- 3. Refer to figure 1 to locate i. f. transformers T-4 and T-5.
- 4. Refer to figure 3, which shows the wiring of T-4 and T-5 before modification.
- 5. Unsolder and remove 5 uuf capacitor C-32 that connects from terminal A of T-4 to terminal D of T-5. Discard C-32.
- 6. Unsolder and disconnect 2200 ohm resistor R-24 and 0.01 ufd capacitor C-64 from terminal F of T-4. Do not unsolder the other end of R-24 or C-64.
- 7. Unsolder and remove from terminal D of T-4 the lead which connects that terminal to pin 5 of tube V-5. Do not unsolder the end of the lead which connects to pin 5 of tube V-5.
- 8. Unsolder and remove the lead that connects terminal C of T-4 to terminal F of T-5. Discard this lead. In some early sets terminal F of T-5 was grounded by a wire to pin 2 of V-6. See dotted lines of figure 3. Remove and discard this wire if present.
- 9. Unsolder and remove from terminal C of T-4 the lead which connects that terminal to the ground lug marked M in figure 3. Do not unsolder the end of the lead which connects to lug M.
- 10. Unsolder and remove from terminal C of T-5 the lead which connects that terminal to the lug marked K in figure 3. Do not unsolder the end of the lead which connects to lug K.
- 11. Unsolder and remove as in 10 (above) the lead from terminal A of T-5 which connects that terminal to V-6 pin 1.
- 12. Remove the nuts and shake-proof washers from the mounting lugs that hold T-4 and T-5 to the chassis. Remove and discard T-4 and T-5. Save the shakeproof washers and nuts for mounting the mechanical filter adapter.
- 13. Use a number 8 Bristo wrench to remove the b. f. o. pitch control knob.
- 14. Loosen all four screws holding the shaft coupler on the b. f. o. pitch control shaft. Discard the shaft and coupler.
- 15. Swing the switch arm on the mechanical filter adapter down so that its shaft hole lines up with the hole in the rear apron of the mechanical filter adapter. Install the mechanical filter adapter on the chassis as shown in figure 2. Be sure that the