shaft followed by the quarter-inch clamp. Make sure the clamp is installed properly so that it can be positioned as shown in figure 2.

☐ 20. Cover the bearing point in the gear plate with a light coating of grease, if available, otherwise add the grease later.

☐ 21. Slide the quarter-inch tube through the mechanical filter adapter switch arm and the rear apron of the mechanical filter adapter until about a quarter inch of the tube extends beyond the rear apron.

☐ 22. With the quarter-inch washer and quarter-inch clamp held against the gear panel, use a number 8 Bristo wrench to tighten the quarter-inch clamp.

☐ 23. Install the mechanical filter switch lever on the front panel as shown in figure 2. The hollow shaft fits through the panel and inside of the five-sixteenth inch clamp. Tighten this clamp.

☐ 24. Push the top of the mechanical filter adapter switch arm in toward the mechancial filter adapter to the position shown in figure 2.

☐ 25. Move the mechanical filter switch lever on the front panel to a position 15 degrees above horizontal. Use a number 8 Bristo wrench to tighten the clamp on the mechanical filter adapter switch arm.

☐ 26. Cover the long three-sixteenth inch diameter shaft with a light coating of grease, if available. If the grease is not available, it can be added later.

☐ 27. Slide the three-sixteenths inch shaft into the mechanical filter switch lever on the front panel until it extends at the rear of the filter-box assembly apron.

☐ 28. Install the shaft coupler to connect the b.f.o. transformer's quarter inch shaft to the three-sixteenths inch shaft. This coupler has two different hole sizes to accommodate these shafts. Tighten the nuts left loose in step 16.

NOTE

If may be necessary to loosen the mounting nuts of the b.f.o. transformer and adjust the position of the transformer before the shafts and coupler will align perfectly. Retighten the nuts.

☐ 29. Place the small, split, knob insert in the b.f.o. knob shaft opening and replace the knob.

☐ 30. Refer to figure 4 showing the under-chassis connections after modification.

☐ 31. Connect and solder 2200 ohm resistor R-24 and .01 ufd capacitor C-64 (that originally connected to terminal F of T-4) to terminal 8 of the filter box assembly.

NOTE

Early production had C-64 and C-62 grounded to a mounting bolt of T-4, it is advisable to move these grounds to the bottom shield across V-5. See the dotted lines of figure 3.

☐ 32. Connect and solder jumper (that originally connected to terminal D of T-4) to terminal 7 of the filter box assembly.

☐ 33. Connect and solder jumper (that originally connected between terminal C of T-4 and ground lug M) to terminal 6 of the filter box assembly.

☐ 34. Connect and solder a bus-wire jumper from the soldering lug indicated as L in figure 4 to terminal 4 of the subassembly.

☐ 35. Connect and solder a green insulated jumper from the soldering lug indicated as J in figure 4 to terminal 3 of the subassembly.

☐ 36. Connect and solder bus-wire jumper (that originally connected between terminal C of T-5 and the soldering lug indicated as K in figure 4) to terminal 1 of the subassembly.

☐ 37. Connect and solder jumper (that originally connected to terminal A of T-5) to terminal 2 of the filter box assembly.

☐ 38. Connect and solder a red insulated jumper from the soldering lug indicated as N in figure 4 to terminal 5 of the subassembly.

☐ 39. Refer to the 75A-2 schematic diagram, figure 5-5 and the bottom view photograph, figure 5-4 of the 75A-2 Instruction Book.

☐ 40. Remove C-110 from terminals D and A of T-6 and discard C-110.

☐ 41. Connect and solder the 15 uuf capacitor in place of the removed C-110.

☐ 42. Carefully check the electrical assembly steps to make sure that all connections have been made to the proper connections and are well soldered.

☐ 43. Install the F455B-31 (formerly F455B-3) Mechanical Filter in the socket marked B. If an F455B-08, 800 CPS filter, is also available, install it in the socket marked A.

☐ 44. Realign the i-f transformers, L-24, T-3, T-6 and T-7 and the BFO coil, L-27 as instructed in the 75A-3 Instruction Book.

45. Replace the receiver in the cabinet.

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