

ENGINEERING BULLETIN FOR MODEL HT-46 TRANSMITTER



PURPOSE

The following modification instructions have been prepared for owners of Hallicrafters Model HT-46 Transmitter. The modification serves to rectify a small frequency shift noted on the 40M, 15M, and 10M bands when switching from stand-by to transmit, and to correct the calibrate switching function for CW operation.

TOOLS REQUIRED

- Straight blade screwdriver
- Philips Screwdriver
- Wire Cutters
- Long Noise Pliers
- Soldering Iron and Rosin Core Solder

COMPONENTS REQUIRED

- 1 ea Single terminal tie lug. (6-32 mounting hole)
- 1 ea 3300 ohm 1/2 W composition resistor
- 2 inches No. 22 AWG Tinned copper wire
- 10 inches No. 22 AWG stranded wire (Gray)

MODIFICATION PROCEDURE

1. Remove cabinet cover (6 screws at cabinet sides).
2. Remove bottom cover (7 screws).
3. At the VFO switch (S-5), clip the white-black lead 3 inches from the switch terminal. Strip the insulation back about 3/8 inch and solder the lead to the ground buss on the heterodyning crystal socket.
4. Carefully pull the remainder of the white-black lead out of the wiring harness. The white-black lead terminates at the center terminal of the CAL switch (S-3). Clip off this white-black lead only at the switch terminal. (Leave the remaining white-black lead connected to the switch.)

5. At the CAL switch (S-3), clip the ground jumper wire connected between the switch lugs at the CAL ON side of the switch. Also disconnect the green-black lead from the switch arm terminal.

6. Connect a No. 22 tinned wire jumper from the switch lug with the two black ground leads to the switch arm terminal left vacant when the green-black lead was disconnected in step 5.

7. Connect the green-black lead to the switch lug left vacant when the jumper wire was removed in step 5.

8. Add a gray No. 22 stranded wire lead to the unused terminal on the CAL switch (S-3), lay it along the wiring harness and bring it up to the OPERATION switch (S-1).

9. At the OPERATION switch (S-1) clip off the ground wire jumper running from contact 4 on the rear wafer (S-1B) to contact 4 on the front wafer (S-1A). Do not disturb the wiring on the front switch wafer.

10. Mount a single terminal tie lug to the chassis using one of the VFO capacitor mounting screws as shown.

11. Disconnect the green-black lead from its terminal on switch wafer S-1B and connect it to the tie lug.

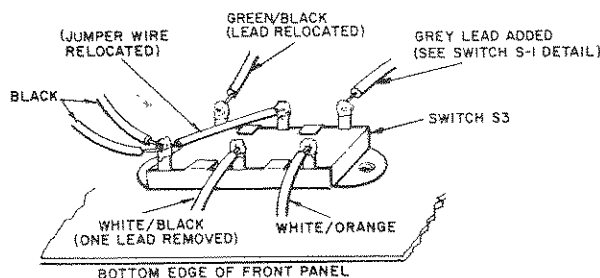
12. Connect the gray lead from the CAL switch (S-3) to the switch terminal left vacant when the green-black lead was removed in step 11.

13. Connect the 3300-ohm 1/2 watt resistor between the tie lug and the switch contact left vacant when the jumper wire was removed in step 9.

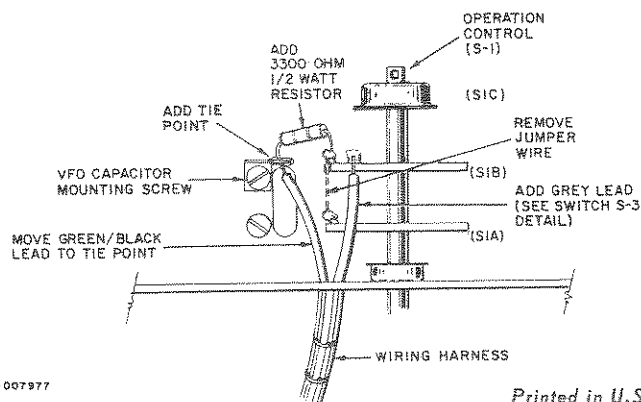
14. Replace the bottom cabinet cover and top cabinet cover. Make sure the long sheet metal screw is driven into the shield foot to ground the bottom cover.

A schematic diagram and parts list incorporating these changes is enclosed.

CAL SWITCH WIRING



OPERATION SWITCH WIRING



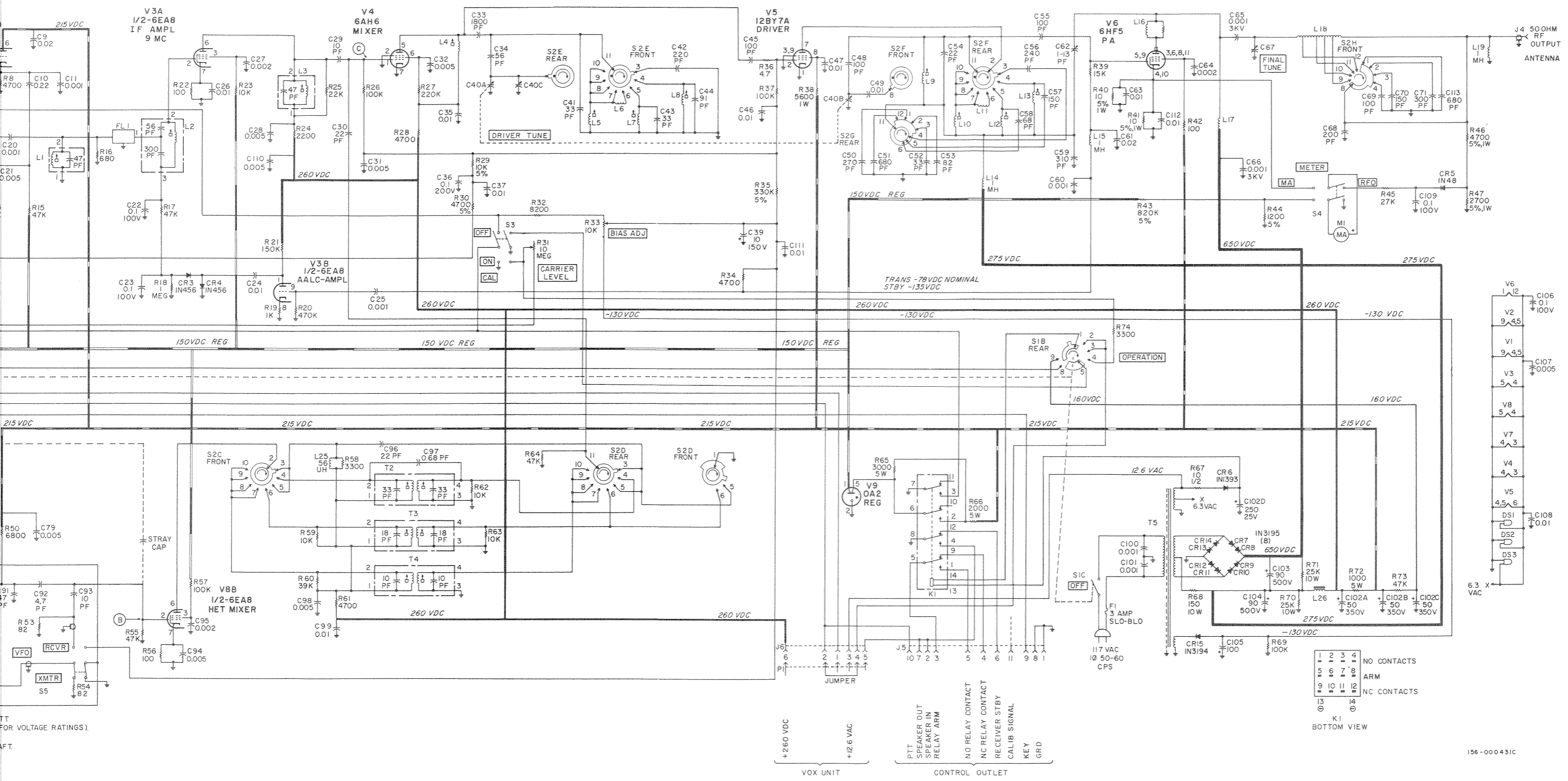


Figure 15. Model HT-46 Schematic Diagram.

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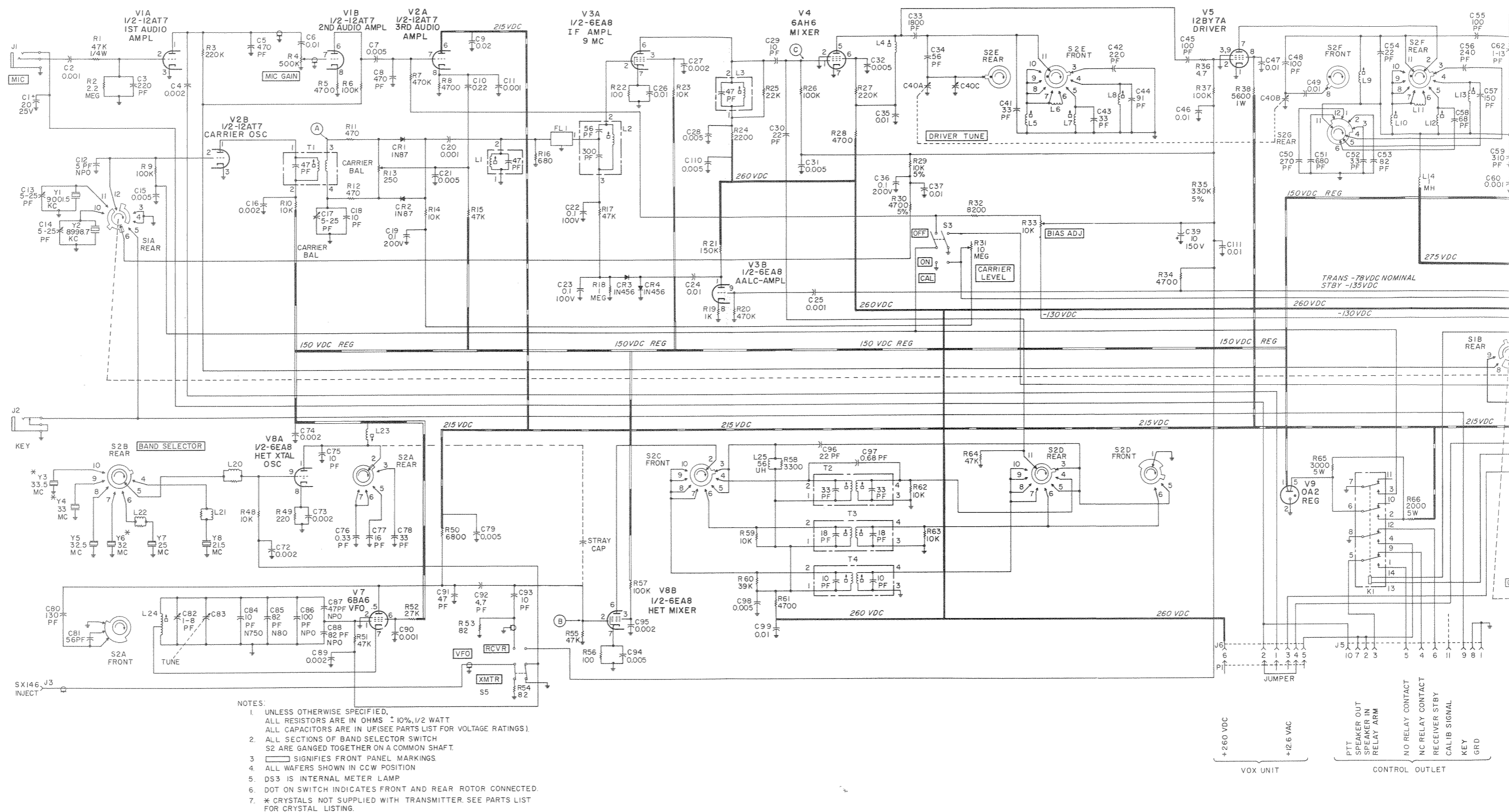


Figure 15. Model HT-46 Schematic Diagram.

ERRATA SHEET

MODEL HT-46

Prior to production, but after the Instruction Manual was printed, certain wiring and component changes were made in the Model HT-46 Transmitter.

These changes are contained in the schematic diagram and parts list herein enclosed. Please discard the schematic diagram and parts list contained in the Instruction Manual and refer to those contained within this sheet whenever necessary.

Part Number 094-904440
Pack with Instruction Manual
Part Number 094-904161