

- 1) Acquire a 10W, 18K resistor, and an ECG5161A Zener Diode (150V, 5W).
- 2) Remove vertical access panel from VFO section. It is on the left side when looking at the transmitter from the front.
- 3) Remove the existing vacuum tube voltage regulator, as shown in Figure 1 below.
- 4) Remove the existing under-wattage resistor R106 as shown in Figure 1 below. Remember where it connected to the tube socket where both sides of the resistor were connected.
- 5) Run an insulated wire from the junction of the tube socket and the removed resistor through the grommet hole at the bottom of the VFO housing. Leave about 4 inches slack after the grommet

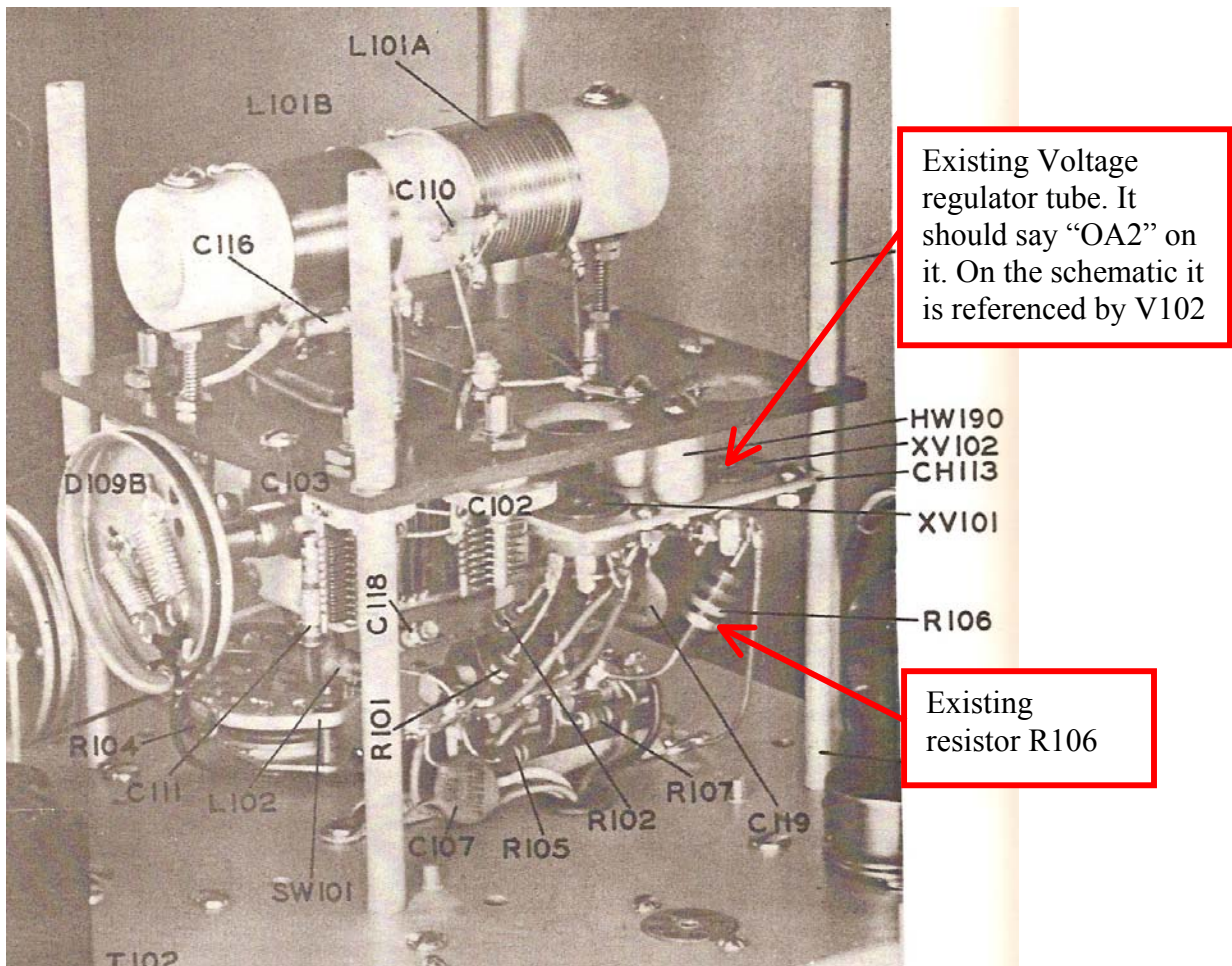


Figure 1. Johnson VFO compartment.

- 6) Run an insulated wire from the terminal strip that was connected to the other side of the removed resistor, through the same grommet and leave 4 inches of slack on the underside.. This wire shall be called “+300V” for reference.

- 7) Find a suitable location on the underside of the chassis where the two wires are protruding to mount a terminal strip. There will be three connections to this strip. The two wires and a connection to chassis ground. See the schematic representation below in Figure 2.

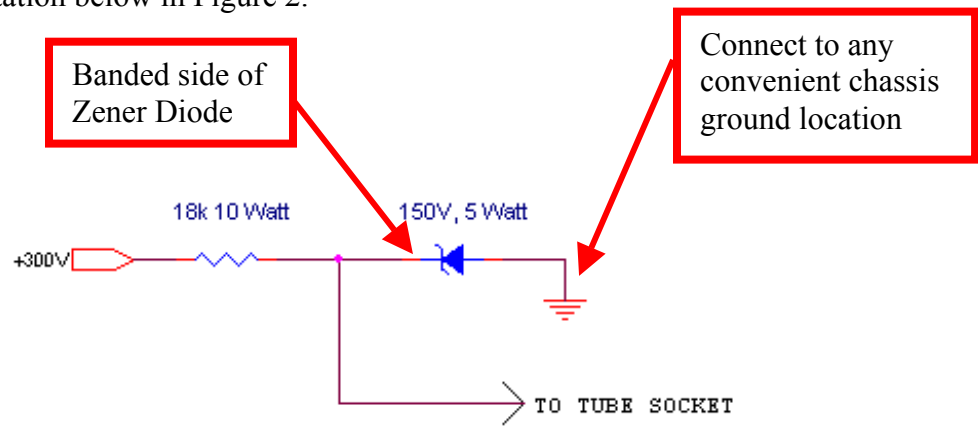


Figure 2. Schematic of terminal strip mounted components.