

## Unknown Radio Schematic

Here is the schematic of the “unknown” receiver. One thing became very obvious, when the circuit was being “traced out”, is that the UV-199 is NOT the proper tube for this design! The tube base connections are not correct for the UV-199. They are correct for the WD-12; any of the Western-Electric 231D, 239, or 264 series, or the QRS 201A. The “normal” 00, 00A, 100, 100A, 200, 200A, 300, 300A, 01, 01A, 101, 101A, 201, 201A, 301, 301A all have envelopes that will not fit the hole in the panel as well as being too tall to fit the space between the tube socket and the panel.

The WD-12 would need either a sleeve or be one of the Sylvania larger base versions that were designed to fit the larger diameter tube sockets.

Another thing is that the circuit is not like any other that I have seen. Of course, there could always be a wiring error in the receiver. As presently wired, the tube plate is connected to the external ground! Since the receiver is battery operated, there is no need to connect the B- / A- to the external ground.

The receiver does appear to be regenerative and not TRF since the antenna input coil is also wired as a “tickler coil”. However, with a couple of minor changes, the receiver would become a TRF circuit.

