

THE INFAMOUS C100

The infamous C100, It migrates all around the RIT circuit. Hallicrafters could not decide where they wanted to put it. It did not work connected to the tie-point of R81 and R80. It can be located at C101. Sometimes it is on the wiper of R80 the RIT control. Sometimes it is on the wiper of R82. **RED IN DRAWING BELOW**

When using the RIT feature in CW mode the capacitor caused a chirp on the first dit or dah. The best solution is to put a 2uf cap on each wiper OF R80 and R82.

The reason they wanted it in there was to decouple the line that feeds the VFO diode CR4. The wires run all over under the chassis and pick up a lot of noise, which would cause FMing of the VFO.

They tried different locations on the SR-160, SR-150, Cyclone, Cyclone II, 400A and the SR-2000.

I have found the best solution is a zener diode mod to the RIT circuit and splitting C100 between R80 and R82. **BLUE IN DRAWING BELOW**

Adding a zener diode at the junction of R80 and R82 provides a stable reference voltage for the bias divider. In addition, the zener establishes an extremely low impedance to gnd for any ac or rf induced into the wiring. The zener mod is in the sr-150 repair manual on <https://wd0gof.com> . Look for section 3-3-2.

