



This 5uf capacitor was installed to correct the 60 cycle sidebands in the VFO. The location was not well thought out. Although it corrects the 60 cycle problem, it causes a chirp in the transmit and receive signals.

The chirp only occurs when the RIT function is enabled and is worse as the RIT frequency deviates from the fixed frequency. It is caused by the varying voltage on the varactor diode as the capacitor charges. It will charge or discharge depending where the RIT frequency is set when transitioning from XMIT to receive or receive to XMIT.

If you move the capacitor from where it is to the other side of the relay the chirp will only occur when you are in receive mode and when you flip the RIT switch. This is not a problem.

Move it from here.

To here  
If it's not at either location add it here

Later level radios moved it here but it did nothing for the 60 cycle distortion.

This schematic is a segment of the SR-150 "A" level radio