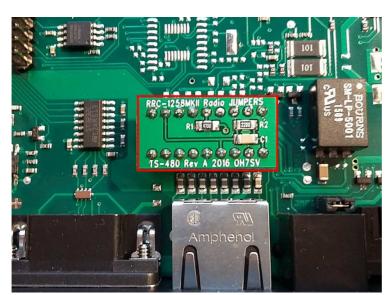# Remoterig RRC-1258MkII TX S/N improvement for Kenwood TS-480
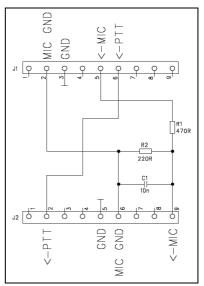
Background

When using Remoterig with Kenwood TS-480 the radio site TX audio signal is fed to the microphone input of the TS-480. The audio output of radio site Remoterig is sending too much noise to mic input which can't be corrected by the codec gain settings. This problem is worse when using TS-480 processor because the low level noise is amplified even more.

Solution

Install a special TS-480 JUMPER board with a 15dB of TX audio attenuation into the radio site box. If you don't have the shown PCB you can follow the schematics and make the modification by adding two resistors and one capacitor into the jumper wiring. This will reduce the noise to the mic input with the same amount. The mic signal attenuation must be compensated in the control site by changing the "codec input gain" from 18 to 48.

TS-480 JUMPERS board location

TS-480 JUMPERS board schematics

Instructions

1. Open the radio site RCC box

2. Remove original jumper wires

3. Install TS-480 JUMPERS board (or modify wiring according to the schematics)

4. Close the RCC box

5. Change the codec input gain from 18 to 48 at control site RCC box

6. Test the operation

2016-12-26 OH7SV

Update 2018-10-07

You can implement similar mic noise reduction also to Elecraft K3 and other transceivers which are using mic signal level from Remoterig RCC radio box to transceiver mic connector. Check the connection details in Remoterig RCC user manual.