# ICOM RP-XX10 Repeater Modifications
## Later Models Used

Note: Link Communications claims no liability to the use of modifications, and the effects on the repeater, warranty, and operation.

COR Modifications:
1) Locate P3, J1 Connector on Logic Unit
2) Locate Pin #4 on J1
3) Parallel a wire from Pin #4
4) Use a 2N2222A, or Equivalent NPN Small Signal Transistor, connect the Base to the wire mentioned in #3.
5) Connect the Emitter to ground.
6) Connect the Collector to RLC-XXX, Pin #7, COR Input
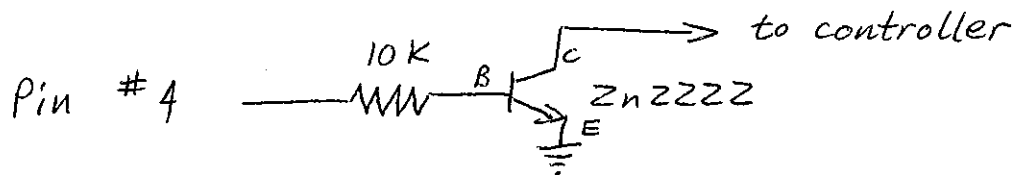
COR Transistor Modification Diagram
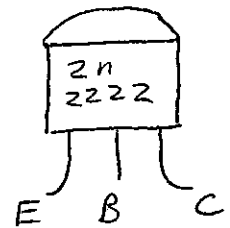
PTT Modifications:
1) Locate P8, J2 Connector on the Logic Unit
2) Locate Pin #5, PTT Output Line
3) Disconnect Pin #5 wire on P8 from the Connector J2
4) Connect the PTT wire mentioned in #3 to RLC-II Pin #5
5) The PTT wire is the wire that use to be connected to Connector J2 on the Logic Unit. The wire is what connects to the transmitter PTT of the ICOM repeater.

Audio Modulation Modification, RLC-XXX to ICOM Audio:
1) Locate P8, J2 Connector on Logic Unit
2) Locate Pin #4, ICOM TX Audio
3) Disconnect Pin #4 wire on P8 from the Connector J2
4) Connect the Audio wire mentioned in #3 to RLC-XXX Pin #4
5) The Audio wire is the wire that use to be connected to Connector J2 on the Logic Unit. The wire is what connects to the transmitter Modulator of the ICOM repeater.

Audio Output Modification, ICOM to RLC-XXX Audio:
1) Locate P8, J2 Connector on Logic Unit
2) Locate Pin #2, ICOM RX Discriminator Audio
3) Disconnect Pin #2 wire on P8 from the Connector J2
4) Connect the Audio wire mentioned in #3 to RLC-XXX Pin #5
5) The Audio wire is the wire that use to be connected to Connector J2 on the Logic Unit. The wire is what connects the ICOM Receiver Discriminator to the RLC-XXX.

RLC-XXX DE-EMPHASIS Jumpers

Because the Icom feeds the RLC-XXX controllers with discriminator audio the user must install the -6dB\Octave de-emphasis jumper on the port which the Icom repeater is connected. This allows the audio to be tailored to the controllers needs.