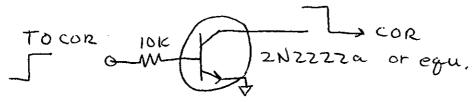
GE Master II Modifications

Receiver:

- 1) Locate the Oscillator/Multiplier Board
 - -- This board attaches to the "Silver" Helical Section
 - 1a) Tie Pin #1 to ground, selects F1 Crystal
 - 1b) Tie Pin #11 to Pin #12, applies +10V to RX Osc.
- 2) Locate on the Receiver/Audio Board
 - -- This board is next to the Osc. Board
 - 2a) Connect Pin #11 to the RLC-XX Audio Input Pin #5
 - -- This is Discriminator Audio Out, Install the De-Emphsis Jumper
 - 2b) Connect Pin #9 to the circuit below, Connect to RLC-XX Pin #7
 - -- This is the Active high COR (Only RLC-II Needs Active Low COR)



COR Invertor Diagram

- 2c) Cut trace connected to Pin #7 RX Mute when TX "ON"
- 2d) Connect a $10K\Omega$ Variable Resistor to control the Squelch. This connects to:
 - -- Pin #10 (Squelch Arm)
 - -- Pin #11 (Volume/Squelch High)
 - -- Pin #12 (Volume/Squelch Low)

Transmitter:

- 1) Locate the Transmitter Exciter board
 - 1a) Tie Pin #8 to ground, selects F1 Crystal
 - 1b) Connect Pin #6 to RLC-XX Audio Output, Pin #4

- 2) Locate Carrier Control Timer Connector
 - -- This connector is located near a stud mounted transistor in the receiver corner of the radio.
 - 2a) Connect Pin #6 (Closest to the Right side of radio, Nearest to the transistor center pin) to the RLC-XX PTT Output, Pin #3
- 3) Locate the System I/O Connector
 - -- This is the connector for the big system cable
 - -- These connections DO NOT HAVE TO BE LARGE GAUGE WIRE
 - 3a) Connect Pin #29 to +12 Volts, Keeps Exciter Alive
 - 3b) Connect Pin #24 to +12 Volts, Powers PTT Relay
 - 3c) Connect Pin 30 to Ground, Grounds Exciter
- 4) No more system cable is needed
- 5) System +12 Volts is attached to the Large Pins on the front of the radio's connector. WATCH THE POLARITY
- 6) Connect separate antennas for the Transmitter and the Receiver. YOU MUST USE DOUBLE SHIELDED WIRE FOR THIS CONNECTION.

Now you have a Duplexed Radio...

It may be necessary to cover the inside plastic seperators with copper foil to keep the RX Oscillator from producing IM products in the TX pre-driver. Without the added sheilding, the RX Oscillator can producs very low levels of noise that mixes in the transmitter excitter board. This noise, down around -60dB can be amplified to cause serious interference at your site. Pre-caution should be taken.

Good Luck!! Allan Overcast KF7FW