

## PSE508 to External Controller Interface

All connections to the External Controller may be taken from the GE Mastr II Control Shelf Mother Board screw terminals by making the following modifications to the PSE508 Board. Careful attention must be paid to avoid flowing solder on the pins of P1206B to avoid problems plugging the board into the card shelf. Solder to the inboard 1/16 inch of the pin only.

Jumper Q6 Collector (3) to P1206B pin 6. This will be the RUS connection for the interface. Note, this circuit provides a positive going (COS) signal for the external controller. Q6 Collector goes negative for a valid received signal plus CTCSS tone. This will only provide a receive signal indication into the controller when a repeater user is keyed, and will not propagate the repeater ID or bubble up to the controller. This signal would then be available on the Control Shelf terminal 10.

Mic audio is supplied to the GE Mastr II pin 4 from the transmit audio output of the controller.

Properly de-emphasized receive audio is present on the Test Header J6 pin 4 on the PSE508 board. This signal may be jumpered to P1206B pin 3 to make this signal available on the Control Shelf terminal 11. This audio is suitable for the Receive input on the external controller.

Make the following connections from the Control Shelf terminals to the Interface:

- 2 - PTT
- 4 - MIC Audio
- 5 - GRD
- 9 - +10 VDC
- 10- RUS
- 11- REC Audio

The circuit provides isolation for the audio path and the PTT/COS path between the external controller and the repeater. The two should be grounded together and to a good earth ground external to the Interface before plugging the two together.

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