

Pete's Riedel Tips

RIF-2064 Programming is a wonderful mystery. There seems to be no manual for it at all! Basically it is the same as any artist panel except that it has no keys, no Autopatches, no BNC artist connection, no preamps and no auxiliary audio I/O.

On the back there are 4 – 37 pin D-Sub connectors, each for 16 keys connection. Each key has a GPI input, like the button, and a GPI output, like the marker lights. In addition there are 2 line inputs and 2 line outputs, all XLR for the audio connections.

This is the basic control:

GP out (Marker light of RIF button) Triggers PTT of TX radio
Busy out of radio RX Triggers GP IN (Button of RIF)

Note: The Marker "LED" will display in the top left of the RIF in remote control or live state.

1. Program the button of the RIF to call to the Radio repeater. **This is part A of the mechanism to PTT the repeater TX when a radio calls.** The Busy signal of the repeater RX is connected to the GPI and is the same as pushing the button.

2. Create a conference which is the common call point for any panel to use the repeater. Here it is called "Radio 01 - Call"

3. Create a 4-wire port for the audio from the RX and the audio to the TX of the repeater. Add the Conference to the Vox virtual function.

4. Program the 4-wire port to listen to itself for a normal repeater audio path.

5. In marker definitions (right click properties on "Net" level), set one of the "free definable for signaling" markers so that the RIF LED function is "ON." This becomes the state of the GPO when the button is lit up by a remote button show marker command.

6. Using the NEW marker definition program the "ON CALL" function with a remote key – show marker free define #0 This is the action which operates the PTT of the transmitter – **Part B of the normal repeater function** and the way a panel keys the TX.

7. Now you can add the radio function to any panel. Be sure to keep the key momentary unless you intend for the repeater to be in "Constant Transmit". Since this key is actually talking to a conference, all other users of the radio channel on panels will hear both sides of the conversation.

