

# Application Note

AN #: 234

DATE: 15-Oct-03

Page 1 of 2

**PYRAMID MODEL #:** SVR-200 / SVR-250

**RADIO MODEL:** EF Johnson Summit Series / 800Mhz Trunking

**ENGINEER:** C. Carbajal

**APPROVAL INITIALS**

ENGINEER \_\_\_\_\_

DEPT. HEAD \_\_\_\_\_

Connections:	SVR	Function	Radio {J601 Universal I/O Conn}
	Black/Shield	Ground	J601 Pin 24
	White	Tx Audio Out	J601 Pin 13
	Blue	Remote enable/disable	J601 Pin 14
	Green	PTT Out	J601 Pin 1 and pin 12
	Red	Switched B+	J601 Pin 22
	Yellow	Rx Audio In	J601 Pin 7
	Violet	COR	J601 Pin 25
	Brown	Local Mic In	J601 Pin 11
	Grey	On Air Detect	J601 Pin 5

<b>SVR</b>	JP1	[+]	Remote Enable	<b>SVR</b>	Mobile COR Polarity:	High
<b>Jumpers:</b>	J1	[Out]	Tx audio level	<b>Program:</b>	Mobile Type:	Conv/Trunk
	J2	[Out]	Tx audio impedance		On-Air Polarity:	Low
	J4	[Out]	Local mic audio loop		Tx Audio Response:	De-Emp
	J5	[Out]	Local mic PTT loop		Rx Audio Response:	Flat
	J6	[Out]	Local Mic Sensitivity			
	J7	[Out]	Rx Sensitivity			
	J8	[-]	Pull up resistor			
	J9	[Out]	MCOR Pull up resistor			

**Additional Modifications (SVR-200 / SVR-250):** None

## Additional Modifications (Radio):

1. Install a wire jumper between J403 pin 13 and W/O 19 (Rx mute out to violet wire MCOR).
2. Remove the Red wire from pin 7 of J403 and jumper this wire to pin 8 of J401.
3. In order to mute "hot mic audio" when the SVR is has the mobile radio keyed, it is necessary to modify the microphone of the radio. See figure 1 on page 2 for a diagram.

**Additional Modifications (Radio):**

Using the EJ Johnson software, program the following:

1. From the *Main Menu*, select *Modify Current File (3)*, *Main Radio Parameters (1)*, and press *F4* to select Universal I/O Options. Under *Inputs*, select **PTT\_Request\_N\_Std**. Under *Outputs*, select **PTT\_Tx\_Sense**. Under *Audio Circuit States*, select **Audio Rx: Mode 1**, and **Audio Tx: Mode 3**.

Make sure the Universal Interface bus is *enabled* (Disable UI bus=no).

2. From the *Main Menu*, select *Modify Current File (3)*, *Define Option Buttons (2)* and program one of the front panel buttons for **Aux 1** to enable/disable the repeater.

Figure 1

