

Application Note

AN #: 202

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PYRAMID MODEL #: SVR-200 / SVR-250 / SVR-300

RADIO MODEL: EF Johnson Summit Series

ENGINEER: W. Carlin

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

SVR	JP1	[+]	Remote Enable	SVR	Mobile COR Polarity:	High
Jumpers:	J1	[Out]	Tx audio level	Program:	Mobile Type:	Conv/Trunk
	J2	[Out]	Tx audio impedance		On-Air Polarity:	High
	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 / SVR-300): 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. Install a 10K resistor between W/O3 and W/O4.

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.