

# Application Note

AN #: 240B

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

**RADIO MODEL:** Vertex VX-4200

**ENGINEER:** C. Carbajal

**APPROVAL INITIALS**

ENGINEER

DEPT. HEAD

Connections:	SVR	Function	Compact DB-15 Ext. Options PCB
	Black/Shield	Ground	Acc Conn pin 15
	White	Tx Audio Out	Acc Conn pin 1
	Blue	Remote enable/disable	Acc Conn pin 9
	Green	PTT Out	Acc Conn pin 6
	Red	Switched B+	Acc Conn pin 4
	Yellow	Rx Audio In	Acc Conn pin 2
	Violet	COR	Acc Conn pin 11
	Brown	Local Mic In	N/C
	Grey	On Air Detect	N/C

<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
	J2	[Out]	Tx audio impedance		On-Air Polarity:	Low
	J4	[In]	Local mic audio loop		Tx Audio Response:	De-Emp
	J5	[In]	Local mic PTT loop		Rx Audio Response:	Flat
	J6	[In]	Local Mic Sensitivity		Local Mic Repeat	Yes
	J7	[In]	Rx Sensitivity			
	J8	[Out]	Pull up resistor			
	J9	[Out]	MCOR Pull up resistor			

**Additional Modifications (SVR-200 / SVR-250):** Remove J11

## Additional Modifications (Radio):

1. Remove R1409. Run a jumper from TP1088 to the Input of Q1004. This provides SWB+ to Accy Pin 4.
2. Remove R1416. Run a jumper from TP1079 to the collector of Q1009. This provides COR to Accy Pin 11.
3. Run a jumper from TP1090 to TP1015. This ties external mic audio to front mic audio.
4. Program Common / Key Functions / P4 to "Ext ACC2". Programs Key P4 for remote enable option.
5. Program Common / DSUB-15 / ACC I/O Port 1 to Output = ACC2. This ties Key P4 to Accy Pin 9.
6. Enable External PTT in the Miscellaneous menu in the VX-2200 programming software.
7. Run a jumper from TP1019 to TP1085. This ties external PTT to front mic PTT.
8. In the MH-25A8J Microphone, Remove the mic element "white" wire from the DPDT switch Common. Solder this wire to the DPDT Normally Open pin. Short the Common center pins of the switch together. This prevents the normally hot mic element from interfering with the SVR audio path.