

# Application Note

AN #: 282

DATE: 5-May-09

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

**RADIO MODEL:** Vertex VX-5500

**ENGINEER:** W. Carlin

**APPROVAL INITIALS**

ENGINEER \_\_\_\_\_

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

Connections:	SVR	Function	Radio DB25Accy Connector
	Black/Shield	Ground	Pin 7
	White	Tx Audio Out	Pin 13
	Blue	Remote enable/disable	Pin 22
	Green	PTT Out	Pin 12
	Red	Switched B+	Pin 14
	Yellow	Rx Audio In	Pin 17
	Violet	COR	Pin 24
	Brown	Local Mic Audio	Pin 21 (See step 6 below).
	Grey	On Air Detect	Pin 11

<b>SVR</b>	JP1	[+]	Remote Enable	<b>SVR</b>	Mobile COR Polarity:	Low
<b>Jumpers:</b>	J1	[In]	Tx audio level	<b>Program:</b>	Mobile Type:	Conv/Trunk
	J2	[In]	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		Local Mic Repeat	Yes
	J7	[Out]	Rx Sensitivity			
	J8	[+]	Pull up resistor			
	J9	[Out]	MCOR pull up resistor			
	J11	[In]	Tx Audio Level (Not present on older SVR-200 units)			

## Additional Modifications (SVR-200 / SVR-250):

None.

## Additional Modifications (Radio):

1. Ensure Solder jumper **JP3** is **In**, and **JP4** is **Out**. (Selects disc audio on pin 17).
2. Ensure Solder jumper **JP6** is **In**, and **JP5** is **Out**. (Selects tx audio level).
3. Ensure Solder jumper **JP8** is **In** (SWB+ to pin 14). Replace the 0805 SMT fuse just right of **JP8** with a **2A** fuse.
4. In the CE49 software select **Common/Key Function**; program one of the soft keys for **A** to enable/disable the repeater from the radio front panel.
5. In the CE49 software, select **Common/DSub-25**; ensure Output **DSub 21** is programmed for **None**. Ensure Output **DSub 22** is programmed for **A Port, Normal**.
6. If local mic repeat is enabled, add a jumper wire between pin 1 of the 4066 IC just to the right of options connector 2005 and DSub pin 21.