Application Note

AN #: 282A
DATE: 27-Apr-2020

PYRAMID MODEL #: SVR-200 / SVR-250 / SVR-300 / SVR-350
RADIO MODEL: Vertex VX-5500
ENGINEER: M. Castner

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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 11	
	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	

SVR Jumpers:	JP1	[+]	Remote Enable	**SVR Program:**	Mobile COR Polarity:	Low
	J1	[Out]	Tx audio level		Mobile Type:	Conv/Trunk
	J2	[Out]	Tx audio impedance		On-Air Polarity:	Low
	J4	[Out]	Local mic audio loop		Tx Audio Response:	Flat
	J5	[Out]	Local mic PTT loop		Rx Audio Response:	Pre-Emp
	J6	[Out]	Local mic Sensitivity		Local Mic Repeat	No
	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 / SVR-300):
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 ***3A*** 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.