Application Note

PYRAMID MODEL #: SVR-200 / SVR-250 / SVR-300
RADIO MODEL: Vertex VX-7200
ENGINEER: C. Carbajal

APPROVAL INITIALS
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Connections:	*SVR*	*Function*	*Compact DB-15 Ext. Accy.*	
	Black/Shield	Ground	Acc Conn pin 15	GND
	White	Tx Audio Out	Acc Conn pin 1	AF IN
	Blue	Remote enable/disable	Acc Conn pin 11	ACC3
	Green	PTT Out	Acc Conn pin 6	EXT PTT
	Red	Switched B+	Acc Conn pin 4	SB
	Yellow	Rx Audio In	Acc Conn pin 2	AF OUT
	Violet	COR	Acc Conn pin 9	ACC1
	Brown	Local Mic In	Acc Conn pin 14	** See Note 2*
	Grey	On Air Detect	Acc Conn pin 7	TRX

SVR Jumpers:				SVR Program:		
JP1	[-]	Remote Enable		Mobile COR Polarity:	Low	
J1	[In]	Tx audio level		Mobile Type:	Conv / Trunk	
J2	[In]	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:	Flat	
J6	[In]	Local Mic Sensitivity		Local Mic Repeat	Yes	
J7	[In]	Rx Sensitivity				
J8	[+]	Pull up resistor				
J9	[In]	MCOR Pull up resistor				

Additional Modifications (SVR-200 / SVR-250 / SVR-300):
1. On newer SVR-200 and all SVR-250/300 series, remove J1, J2 and J11.
2. Install a 10K pull up resistor to 5VDC on Pin 9 of J1 (DSUB Radio Connector). This adds a pull up to On Air Detect.

Additional Modifications (Radio):
1. Replace F1001 with a 3 Amp 0603 pico fuse.

2. If local microphone repeat is enabled; Remove R1419 and run a jumper wire from TP1087 to TP1091. This bridges local microphone audio to Pin 14 of the DSUB-15.

In the radio programming software, set the following:
Common / Key Function:
3. Program the A Key for External ACC2

Common / DSUB-15:
4. Acc I/O Port 1 = Output = AF Mute
5. Acc I/O Port 3 = Output = ACC2

Common / Miscellaneous:
6. Enable External PTT