

Application Note

AN #: 169

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PYRAMID MODEL #: SVR-200 / SVR-250

RADIO MODEL: Midland XTR

ENGINEER: W. Carlin

APPROVAL INITIALS

ENGINEER

DEPT. HEAD

Connections:	SVR	Function	Radio (Accessory Conn J415)
	Black/Shield	Ground	Pin 2
	White	Tx Audio Out	Pin 1
	Blue	Remote enable/disable	External Switch to Ground
	Green	PTT Out	Pin 8
	Red	Switched B+	Pin 6
	Yellow	Rx Audio In	Pin 4
	Violet	COR	Pin 5
	Brown	Local Mic In	N/C
	Grey	On Air Detect	N/C

SVR	JP1	[-]	Remote Enable	SVR	Mobile COR Polarity:	High
Jumpers:	J1	[Out]	Tx audio level	Program:	Mobile Type:	Conv.
	J2	[In]	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	Rx Sensitivity			
	J7	[Out]	Local mic Sensitivity			
	J8	[+]	Pull up resistor			

Additional Modifications (SVR-200): Adjust RV1 (COR threshold) for 2.5VDC.

Additional Modifications (SVR-250): None.

Additional Modifications (Radio):

1. Replace R401 (270 Ohm) with a 1KOhm chip resistor (bottom side of PCB next to J410).
2. Remove Plug P413 and P416 and all wires connecting them to J415 (1-6 & 8)
3. Add the following jumpers from J415 to the main PCB:

Pin 1 to J407 Pin 5	Pin 5 to J408 Pin 7
Pin 2 to Chassis Ground	Pin 6 to plus side of C434
Pin 3 to J413 Pin 2	Pin 8 to J407 Pin 7
Pin 4 to J408 Pin 11	
4. Add a jumper from J413 Pin 4 to Pin 5.

Note: *This configuration allows internal speaker use only.*