

# Application Note

AN #: 242E

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**PYRAMID MODEL #:** SVR-200 / SVR-250 / SVR-300

**RADIO MODEL:** Motorola XTL-2500 & XTL-5000 Mid / Low Power

**ENGINEER:** C. Carbajal

**APPROVAL INITIALS**

ENGINEER

DEPT. HEAD

<b>Connections:</b>	<b>SVR</b>	<b>Function</b>	<b>Radio J2 26-Pin Accessory</b>	
	Black/Shield	Ground	J2 Pin 1	(Ground)
	White	Tx Audio Out	J2 Pin 23	(Aux_Mic)
	Blue	Remote enable/disable	External Switch To Ground	
	Green	PTT Out	J2 Pin 16	(PTT)
	Red	Switched B+	J2 Pin 24	(SW B+)
	Yellow	Rx Audio In	J2 Pin 21	(RX_Filt_Audio)
	Violet	COR	J2 Pin 13	(Chan Activity)
	Brown	Local Mic In	N/C	
	Grey	On Air Detect	J2 Pin 10	(RTS_DCE) * See Notes

<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/Trunk
	J2	[Out]	Tx audio impedance		On-Air Polarity:	High
	J4	[Out]	Local mic audio loop		Tx Audio Response:	De-Emp
	J5	[Out]	Local mic PTT loop		Rx Audio Response:	Pre-Emp
	J6	[Out]	Local Mic Sensitivity		Local Mic Repeat	Disabled
	J7	[Out]	Rx Sensitivity			
	J8	[+]	Pull up resistor			
	J9	[Out]	MCOR Pull up resistor			

**Additional Modifications (SVR-200):** Adjust RV1 for 2.5VDC

## **Additional Modifications (Radio):**

1. Remove R0412 on the main logic board. This insulates RTS\_DCE from the accessory connector J2.
2. Install a general purpose diode (1N914) from the base of Q0951 to Pin 8 of J0402. Ensure the anode is toward the base of Q0951.