

# Application Note

**AN #: 268B**

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

**RADIO MODEL:** Motorola XTL1500/2500/5000 PM1500 Mid/Low  
Power with Smart Cable

**ENGINEER:** C. Carbajal

**APPROVAL INITIALS**

ENGINEER

DEPT. HEAD

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

**Smart Cable Part Numbers:** Order 7505-10-1094 for the SVR-200  
Order 7505-10-1294 for the SVR-250 / SVR-300

**Additional Modifications (SVR-200):** None.

**Additional Modifications (SVR-250/300):** Set EMG Jumper to NC. Ensure that R25 is a 100K ohm resistor.

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

- In the Astro Mobile CPS, program the **Radio Wide / Advanced** menu options to:
  - Aux PTT Audio Source = Aux\_Mic**
  - Aux Transmit Sensitivity = 80 mV**
- In the Astro Mobile CPS, program the **Radio Configuration / Display & Menu / Menu Items:**
  - Program One of the Control Head Keys for **PWR**. The SVR will use the Low power menu setting for remote enable/disable.
- In the Astro Mobile CPS, program the **Radio Wide / Transmit Power Levels:**
  - Set Low and High power tx levels equal. This ensures that when enabling the SVR, the radio remains in High power mode.

*Note: Not all control head types will support enabling/disabling the SVR using the High/Low power button on the radio. Generally all Seires 05 control heads support low/high power enable/disable. In cases where this setting does not work, use the blue wire provided on the smart cable to enable the repeater. This enable line is active low.*