

# Application Note

**AN #: 251B**

DATE: 27-Sep-05

Page 1 of 1

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

**RADIO MODEL:** Motorola XTL-5000 High Power

**ENGINEER:** C. Carbajal

**APPROVAL INITIALS**

ENGINEER

DEPT. HEAD

<b>Connections:</b>	<b>SVR</b>	<b>Function</b>	<b>Radio</b>
	Black/Shield	Ground	Accy Pin 18 (Ground)
	White	Tx Audio Out	Accy Pin 8 (TX_Audio)
	Blue	Remote enable/disable	External Switch To Ground
	Green	PTT Out	Accy Pin 1 (PTT)
	Red	Switched B+	Accy Pin 22 (SW B+)
	Yellow	Rx Audio In	Accy Pin 9 (DET_Audio)
	Violet	COR	Accy Pin 16 (SPARE 1) * See Notes
	Brown	Local Mic In	Accy Pin 12 (Mic_Hi)
	Grey	On Air Detect	Accy Pin 17 (SPARE 2) * 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	Enabled
	J7	[Out]	Rx Sensitivity			
	J8	[+]	Pull up resistor			
	J9	[Out]	MCOR Pull up resistor			

## **Additional Modifications (SVR-200 / SVR-250 / SVR-300):**

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

1. On the HLN6901C Remote Interconnect Board, remove JU672, JU615, JU512, JU614 and JU513.
2. Run a jumper wire from Pin 16(51) of the J60 Accessory Connector to the collector of Q0200 on the HUD4025B logic PCB. (COR)
3. Run a jumper wire from Pin 17(52) of the J60 Accessory Connector to the base of U3560. (On Air Detect)
4. In the Astro Mobile CPS, program the **Radio Wide / Adanced** menu options to:
  - a. **Aux PTT Audio Source = Aux\_TX**
  - b. **Aux Transmit Sensitivity = 300mV**

**Note:** In order to run the jumper wires for COR and On Air Detect, you will need to grind or cut notches in the XTL-5000 chassis to avoid pinching jumper wires to ground. All jumper wires are run on the