Application Note

PYRAMID MODEL #: SVR-200 / SVR-250 / SVR-300
RADIO MODEL: Motorola XTL-5000 High Power /w Millennium Control
ENGINEER: C. Carbajal

APPROVAL INITIALS
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Connections:

SVR	Function	Radio	
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

SVR Jumpers:

JP1	[-]	Remote Enable
J1	[Out]	Tx audio level
J2	[Out]	Tx audio impedance
J4	[Out]	Local mic audio loop
J5	[Out]	Local mic PTT loop
J6	[Out]	Local Mic Sensitivity
J7	[Out]	Rx Sensitivity
J8	[+]	Pull up resistor
J9	[Out]	MCOR Pull up resistor

SVR Program:

Mobile COR Polarity:	High
Mobile Type:	Conv/Trunk
On-Air Polarity:	High
Tx Audio Response:	De-Emp
Rx Audio Response:	Pre-Emp
Local Mic Repeat	Enabled

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

Additional Modifications (Radio):

1. On the HLN1454B Remote Interconnect Board, remove JU353, R350 and R356.

2. Run a jumper wire from Pin 16 of the J60 Accessory Connector to the collector of Q0200 on the HUD4025B logic PCB. (COR)

3. Run a jumper wire from Pin 17 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 drill or cut notches in the XTL-5000 chassis to avoid pinching jumper wires to ground. All jumper wires are run on the bottom of the main control board HUD4025B.