Application Note

AN #: 281A
DATE: 5-Apr-10

PYRAMID MODEL #: SVR-200 / SVR-250 / SVR-300 / SVR-350
RADIO MODEL: Harris M7300 - Conv. / P25 / OpenSky
ENGINEER: C. Carbajal

APPROVAL INITIALS
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Order Pyramid M7300 Interface cable Part # 7500-10-1047 when connecting to the SVR-200

Connections:	***SVR***	***Function***	***Radio DB44 Accy Connector***	
	Black/Shield	Ground	Pin 8	
	White	Tx Audio Out	Pin 27	
	Blue	Remote enable/disable	Pin 10	* See Note *
	Green	PTT Out	Pin 18	
	Red	Switched B+	Pin 28	
	Yellow	Rx Audio In	Pin 17	
	Violet	COR	Pin 2	
	Brown	Local Mic Audio	N/C	
	Grey	On Air Detect	Pin 29	* Factory Cable Only, See Note *

SVR Jumpers:	JP1	[-]	Remote Enable	**SVR Program:**	Mobile COR Polarity:	Low
	J1	[Out]	Tx audio level		Mobile Type:	Conv
	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	No
	J7	[In]	Rx Sensitivity			
	J8	[+]	Pull up resistor			
	J9	[In]	MCOR pull up resistor			
	J11	[Out]	Tx Audio Level **			

Additional Modifications (SVR-200 / SVR-250 / SVR-300):
** On older SVR-200 units without J11, install J1 & J2 instead.

Additional Modifications (Radio):

1. Under ***External IO Options***, Program *External Mute*, active high *output 1*.
2. Program *Aux Input* 1 for *PTT*.
3. Program Aux Output 1: Custom, Active low, Output 2, Repeat checked. Custom pattern all checked. *
4. Under ***Control Unit Keypad Options***, program one of the soft keys for *AUX 1* to enable/disable the repeater from the radio front panel. *

* If using the factory interface cable, on air detect is connected to pin 29 with an internal pull up to regulated 5 volts. Additionally, there is a loop back for remote enable that can cut if you wish to enable the SVR from an external switch rather than a M7300 control head button. To use an external source, cut the **Blue** remote enable loop located at the DB-44 of the factory cable and connect the **White Marked Blue** lead to your remote enable switch.