

# Application Note

AN #: 281A

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Page 1 of 1

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

## APPROVAL INITIALS

ENGINEER \_\_\_\_\_

DEPT. HEAD \_\_\_\_\_

**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 *

<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
	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.