Application Note

AN #: 324B
DATE: 2-Apr-2024

PYRAMID MODEL #: SVR-200 / SVR-250 / SVR-300 / SVR-350
RADIO MODEL: Harris Unity XL-185/200M /w Legacy SVR
ENGINEER: C. Carbajal

APPROVAL INITIALS
ENGINEER
DEPT. HEAD

Order Pyramid Interface cable Part # 7508-10-1247 when connecting to the SVR-250/P250/350
*** For SVR-200 Installations, use cable adapter 7500-01-0915 and 7508-10-1247 Cable**

Connections:	***SVR***	***Function***	***Radio RF Deck DB44 Accy Port***
	Black/Shield	Ground	Pin 1
	White	Tx Audio Out	Pin 5
	Blue	Remote enable/disable	Pin 33
	Green	PTT Out	Pin 24
	Red	Switched B+	Pin 11 ** Switched inside smart box
	Yellow	Rx Audio In	Pin 20
	Violet	COR	Pin 2
	Brown	Local Mic Audio	Pin 25
	Grey	On Air Detect	Pin 41
	Blk/White	Emergency	Pin 38

SVR Jumpers:	JP1	[-]	Remote Enable	**SVR Program:**	Mobile COR Polarity:	Low
	J1	[Out]	Tx audio level		Radio Type:	Conv.
	J2	[Out]	Tx audio impedance		On-Air Polarity:	High
	J4	[Out]	Local mic audio loop		Tx Audio Response:	Flat
	J5	[Out]	Local mic PTT loop		Rx Audio Response:	De-Emp
	J6	[Out]	Local mic Sensitivity		Local Mic Repeat	No
	J7	[Out]	Rx Sensitivity			
	J8	[+]	Pull up resistor			
	J9	[In]	MCOR pull up resistor			
	J11	[In]	Tx Audio Level			

Additional Modifications (SVR-200/250/P250/300/350): Connect Red/Black wire on factory cable to 12VDC. The Blue wire on the cable is for optional external remote enable. If used, remove Jumper J1 in the cable to isolate the blue wire from the XLM's remote enable output. Jumper J2 in the cable should not be installed.

Additional Modifications (Radio):

XL-185M or XL-200M Mobile, In RPM2, set the following:

1. Under ***VR Mobile Options***, Program ***VR Mobile Options = None***

2. Under External IO Options, Program:
   a. External Output Control Line 1: Output = External Mute, Active = High
   b. External Output Control Line 2: Output = Auxiliary 1, Mode = Custom, Pattern = All Checked, Repeat = Checked, Active = Low
   c. Auxiliary Input 1 = PTT

3. Under Mobile Programmable Buttons, Set a control head button = Auxiliary 1 to enable the SVR.