Application Note

AN #: 301A
DATE: 11-May-17

PYRAMID MODEL #: SVR-200 / SVR-250 / SVR-300 / SVR-350
RADIO MODEL: Kenwood NEXEDGE NX-720H / NX-820H
ENGINEER: C. Carbajal

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Order the Pyramid interface cable Part # 7502-10-1212 **

Connections:	***SVR***	***Function***	***Radio***	**DB15HD Connector**
	Black/Shield	Ground	Pin 15	Ground
	White	Tx Audio Out	Pin 5	MI2
	Blue	Remote enable/disable	Pin 10	Aux I/O 10
	Green	PTT Out	Pin 9	Aux I/O 9
	Red	Switched B+	Pin 1	SB+
	Yellow	Rx Audio In	Pin 4	AFO
	Violet	COR	Pin 8	Aux I/O 8
	Brown	Local Mic In	N/C	
	Grey	On Air Detect	Pin 11	Aux I/O 11

SVR Jumpers:	JP1	[-]	Remote Enable	**SVR Program:**	Mobile COR Polarity:	High
	J1	[In]	Tx audio level		Mobile Type:	Conv/Trunk
	J2	[In]	Tx audio impedance		On-Air Polarity:	High
	J4	[In]	Local mic audio loop		Tx Audio Response:	De-Emp
	J5	[Out]	Local mic PTT loop		Rx Audio Response:	Pre-Emp
	J6	[In]	Local Mic Sensitivity		Local Mic Repeat	Yes
	J7	[Out]	Rx Sensitivity			
	J8	[+]	Pull up resistor			
	J9	[Out]	MCOR Pull up resistor			

Additional Modifications (SVR-200 / SVR-250 / SVR-300 / SVR-350): Ensure J11 is [In]
** Use 7500-02-1212 Power Injector on SVR-300, SVR-P250 & SVR-350 Installations.

Additional Modifications (Radio):

1. Move R797 to R799 on the RF deck of the Kenwood. This enables the MI2 at pin 5 of the DB15.
2. Move R796 to R798 on the RF deck of the Kenwood. This enables AFO at pin 4 of the DB15.
3. In the ***Key Assignment*** menu set one of the soft keys for **AUX A** to enable the repeater.
4. In the ***Extended Function/AUX Tab*** set the following:
   a. DB-15HD 8 Pin = Output, TOR, High
   b. DB-15HD 9 Pin = Input, Ext PTT (Voice), Low
   c. DB-15HD 10 Pin = Output, AUX A, Low
   d.DB-15HD 11 Pin = Output, TXS, High
5. In the ***Extended Function/Modulation Line Tab*** set the following:
   a. MIC PTT: Mic Line = Connect, MI2 line = Connect, DI Line = Disconnect, QT = Yes, STE = Yes
   b. External PTT (Voice): Mic Line = Disconnect, MI2 line = Connect, DI Line = Disconnect, QT = Yes, STE = Yes