## Application Note

*AN* #: 323

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**PYRAMID MODEL** #: SVR-200 / SVR-250 / SVR-300 / SVR-350

RADIO MODEL: Kenwood NX-5000 Series

ENGINEER: C. Carbajal

**APPROVAL INITIALS** 

**ENGINEER** 

DEPT. HEAD

Order the Pyramid TK-x180/5x20/NX Series interface cable Part# 7502-10-1045 for the SVR-200 Order the Pyramid TK-x180/5x20/NX Series interface cable Part# 7502-10-1245 for the SVR-250 / SVR-300

<b>Connections:</b>	SVR	Function	Radio	<b>DB25</b> Connector
	Black/Shield	Ground	Pin 7	Ground
	White	Tx Audio Out	Pin 6	MI2
	Blue	Remote enable/disable	Pin 21	Aux I/O 4
	Green	PTT Out	Pin 4	Aux I/O 9
	Red	Switched B+	Pin 14	SB+
	Yellow	Rx Audio In	Pin 17	AFO
	Violet	COR	Pin 22	Aux I/O 3
	Brown	Local Mic In	N/C	
	Grey	On Air Detect	Pin 8	Aux I/O 8

SVR	JP1	[-]	Remote Enable	SVR	Mobile COR Polarity:	High
Jumpers:	J1	[Out]	Tx audio level	Program:	Mobile Type:	Conv/Trunk
	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	[Out]	Rx Sensitivity			
	J8	[+]	Pull up resistor			
	J9	[Out]	MCOR Pull up resistor			
	J11	[Out]	Tx audio level			

**Additional Modifications:** On 7502-10-1245 cables, connect Red/Black wires from factory cable to 12VDC. \* KLF-2 or similar DC line filter is recommended on any installation to ensure clean power to mobile and SVR.

## **Additional Modifications (Radio):**

- 1. On factory cables, Rev A Replace F900 with a 3A Fuse. Rev B cables require NO fuse change.
- 2. In the *Key Assignment* menu set one of the soft keys for AUX A to enable the repeater.
- 3. In the *Extended Function/AUX* settings, set the following:
  - a. DB-25 4 Pin = Input, Ext PTT (Voice), Low
  - b. DB-25 8 Pin = Output, TXS, High
  - c. DB-25 21 Pin = Output, AUX A, Low
  - d.DB-25 22 Pin = Output, TOR, High
- 4. In the *Extended Function/Modulation Line* settings, 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
- 5. In the *Audio Profile* settings, set the following:
  - a. External Microphone Sense = 6db
  - b. ANR Preset = Off