

# Application Note

AN #: 252G

DATE: 1-Mar-18

Page 1 of 1

**PYRAMID MODEL #:** SVR-200 / SVR-250 / SVR-P250 / SVR-300  
**RADIO MODEL:** Kenwood TK-5710 / TK-5810 P25  
**ENGINEER:** C. Carbajal

**APPROVAL INITIALS**  
ENGINEER  
DEPT. HEAD

Order the Pyramid TK-x180/5x10/5x20/NX Series interface cable Part # 7502-10-1045 for the SVR-200

Order the Pyramid TK-x180/5x10/5x20/NX Series interface cable Part # 7502-10-1245 for the SVR-250 / SVR-300

Connections:	SVR	Function	Radio	DB25 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	Sw B+
	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

<b>SVR</b>	JP1	[-]	Remote Enable	<b>SVR</b>	Mobile COR Polarity:	High
<b>Jumpers:</b>	J1	[In]	Tx audio level	<b>Program:</b>	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	No
	J7	[Out]	Rx Sensitivity			
	J8	[+]	Pull up resistor			
	J9	[Out]	MCOR Pull up resistor			

**Additional Modifications (SVR-200 / 250 / 300 Series):** Connect Red/Black wires from factory cable to 12VDC.

**Note:** If you experience alternator noise on the mobile radio side of the system, we suggest you remove J1 and J2 and replace R13 with a 100K resistor. On newer SVR-200 units and the SVR-250 simply remove J1, J2 and J11.

**Note:** KLF-2 or similar DC line filter is recommended on any installation to ensure clean power to mobile

## Additional Modifications (Radio):

1. On factory cables, Rev A - Replace F701 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 Tab** set the following:
  - a. DB-25 4 Pin = Input, Ext PTT (Voice)
  - 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 Tab** set the following:
  - a. MIC PTT: Mic Line = Connect, MI2 line = Disconnect, DI Line = Disconnect, QT = Yes, STE = Yes
  - b. External PTT (Voice): Mic Line = Disconnect, MI2 line = Connect, DI Line = Disconnect, QT = Yes, STE = Yes