

# Application Note

AN #: 315A

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

**RADIO MODEL:** Kenwood Viking VM-5000/6000 Series Single Deck

**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

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	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

<b>SVR Jumpers:</b>	JP1	[-]	Remote Enable
	J1	[Out]	Tx audio level
	J2	[Out]	Tx audio impedance
	J4	[In]	Local mic audio loop
	J5	[Out]	Local mic PTT loop
	J6	[Out]	Local Mic Sensitivity
	J7	[Out]	Rx Sensitivity
	J8	[+]	Pull up resistor
	J9	[Out]	MCOR Pull up resistor
	J11	[Out]	Tx audio level

<b>SVR Program:</b>	Mobile COR Polarity:	High
	Mobile Type:	Conv/Trunk
	On-Air Polarity:	High
	Tx Audio Response:	De-Emp
	Rx Audio Response:	Pre-Emp
	Local Mic Repeat	No

**Additional Modifications (SVR-200 / SVR-250):** 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.

### In the Armada software, set the following:

- In the **Button/Menu, Button** screen set one of the soft keys for **AUX 1** to enable the repeater in Trunking or Conventional. .
- In the **EGlobal/Mobile Options** screen, set the following:
  - DB-25 4 Pin = Input, Ext PTT, Low
  - DB-25 8 Pin = Output, TXRX, High
  - DB-25 21 Pin = Output, AUX 1, Low
  - DB-25 22 Pin = Output, BUSY, High