# *Application Note*

***AN #: 315B***
DATE: 8-Oct-26


**PYRAMID MODEL #**: SVR-200 / SVR-250 / SVR-300 / SVR-350
**RADIO MODEL**: Kenwood Viking VM-5000/6000/8000 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# 7512-10-1245 for the SVR-250/300/350**

| **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 |

| **SVR Jumpers:** | | | **SVR Program:** | |
|---|---|---|---|---|
| JP1 | [-] | Remote Enable | Mobile COR Polarity: | High |
| J1 | [Out] | Tx audio level | Mobile Type: | Conv/Trunk |
| J2 | [Out] | 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 | [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 7512-10-1245 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 (not common). Rev B cables require NO fuse change.

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

2. In the ***Button/Menu, Button*** screen set one of the soft keys for **Repeater Enable** to enable the repeater in Trunking and/or Conventional.
3. In the ***Global/Mobile Options*** tab, set the following:
   a. DB-25 4 Pin = Input, External PTT, Low
   b. DB-25 8 Pin = Output, TXRX, High
   c. DB-25 21 Pin = Output, Repeater Enable/Disable, Low
   d. DB-25 22 Pin = Output, Output Busy, High
   e. (Optional) DB-25 24 Pin = Input, External Emergency (Input), Low
   f. (Optional) DB-25 23 Pin = Input, Repeater On Switch or Repeater On/Off Switch, Low (Allows external enabling/disabling of the SVR from a vehicle park or door sensor)