

Application Note

AN #: 205

DATE: 9-Aug-99

Page 1 of 1

PYRAMID MODEL #: SVR-200 / SVR-250 / SVR-300
RADIO MODEL: Kenwood TKx90 Series Mobile Dual Band
ENGINEER: W. Carlin

APPROVAL INITIALS

ENGINEER

DEPT. HEAD

| Connections: | SVR | Function | Radio | DB25 Connector {Primary radio} |
|--------------|--------------|-----------------------|--------|-----------------------------------|
| | Black/Shield | Ground | Pin 7 | Ground |
| | White | Tx Audio Out | Pin 13 | MI/DI input |
| | Blue | Remote enable/disable | Pin 21 | PF3 Out |
| | Green | PTT Out | Pin 4 | PF3 In |
| | Red | Switched B+ | Pin 14 | Sw B+ |
| | Yellow | Rx Audio In | Pin 17 | AFO |
| | Violet | COR | Pin 22 | PF 4 Out |
| | Brown | Local Mic In | N/C | |
| | Grey | On Air Detect | Pin 11 | Tx Sense |

| | | | | | | |
|-----------------|-----|-------|-----------------------|-----------------|---|---------------|
| SVR | JP1 | [-] | Remote Enable | SVR | Mobile COR Polarity: | Note 1 |
| Jumpers: | J1 | [In] | Tx audio level | Program: | Mobile Type: | Conv |
| | 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: | Flat |
| | J6 | [In] | Local Mic Sensitivity | | | |
| | J7 | [In] | Rx Sensitivity | | | |
| | J8 | [+] | Pull up resistor | | | |
| | J9 | [In] | MCOR Pull up resistor | | | |
| | | | | | Note 1: SN prior 106xxxxx :High after 106xxxxx :Low | |

Additional Modifications (SVR-200 / SVR-250 / SVR-300):

None.

Additional Modifications (Radio):

1. Move the zero Ohm resistor on the radio logic board from R641 to R640.
 2. Replace F501 (0.5A) with a 3A fuse.
 3. Install Sw B+ jumper (SB) just to the left of F501.
 4. Add a jumper from CN3 pin 2 to CN4 pin 2 on the KRK8-DBH interface PCB of the **primary radio**.
- Program one of the soft keys for Aux C output to enable the repeater. Program PF3 **input** as Ext PTT. Program PF4 **output** as TOR (tone operated relay). Program PF3 **output** as AUX C. Program *Minimum Volume* greater than 0 (Edit\Optional Features) and ensure *Mic Mute on Ext PTT* is **disabled**.