

# Application Note

AN #: 154C

DATE: 29-Jan-97

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

**RADIO MODEL:** Vertex 99 Channel mobile

**ENGINEER:** W. Carlin

**APPROVAL INITIALS**

ENGINEER \_\_\_\_\_

DEPT. HEAD \_\_\_\_\_

| Connections: | SVR          | Function              | Radio                            |
|--------------|--------------|-----------------------|----------------------------------|
|              | Black/Shield | Ground                | J3008 Pin 2                      |
|              | White        | Tx Audio Out          | J3008 pin 3                      |
|              | Blue         | Remote enable/disable | Q3001 Pin 34 or Ext.Sw to ground |
|              | Green        | PTT Out               | J3008 pins 5 & 6                 |
|              | Red          | Switched B+           | J3001 Pin 6 (SW B+)              |
|              | Yellow       | Rx Audio In           | J3008 pin 4                      |
|              | Violet       | COR                   | VIB-100 output                   |
| (Optional)   | Brown        | Local Mic In          | Q3009 pin 14                     |
|              | Grey         | On Air Detect         | N/C                              |

|                 |     |       |                       |                 |                      |        |
|-----------------|-----|-------|-----------------------|-----------------|----------------------|--------|
| <b>SVR</b>      | JP1 | [+]   | Remote Enable         | <b>SVR</b>      | Mobile COR Polarity: | High   |
| <b>Jumpers:</b> | J1  | [Out] | Tx audio level        | <b>Program:</b> | Mobile Type:         | Conv.  |
|                 | J2  | [Out] | Tx audio impedance    |                 | On-Air Polarity:     | Low    |
|                 | J4  | [Out] | Local mic audio loop  |                 | Tx Audio Response:   | De-emp |
|                 | J5  | [In]  | Local mic PTT loop    |                 | Rx Audio Response:   | Flat   |
|                 | J6  | [In]  | Local Mic Sensitivity |                 |                      |        |
|                 | J7  | [Out] | Rx Sensitivity        |                 |                      |        |
|                 | J8  | [+]   | Pull up resistor      |                 |                      |        |

**Additional Modifications (SVR-200 / SVR-250):** None

## Additional Modifications (Radio):

1. To activate the repeater from the radio front panel, the SVR-200 / SVR-250 blue wire should be connected to Q3001 pin 34 and the "A" key must be programmed for low power; low power should be set the same as high power. Q3001 ( $\mu$ P) pin 34 is accessible on the solder side of the logic board (see page 2).

Note: Lo band version does not offer "A" key hi/low power option; use external switch.

2. To provide COR signal for SVR-200, install VIB-100 interface board on the Vertex 99 channel logic board per AN144 instructions.

Note: Silk screen on PCB shows Q3001 as Q1, J3008 as J2008 and Q3009 as Q9.

Revision Number \_\_\_\_\_

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Approval Initials \_\_\_\_\_

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