# Application Note

***AN #: 275***
DATE: 09-June-08


**PYRAMID MODEL #**: SVR-200 / SVR-250 / SVR-300 / SVR-350
**RADIO MODEL**: Vertex VX3200 VHF/UHF
**ENGINEER**: M. Foley

**APPROVAL INITIALS**
ENGINEER
DEPT. HEAD

| **Connections:** | ***SVR*** | ***Function*** | ***Radio*** | |
|---|---|---|---|---|
| | Black/Shield | Ground | DSUB9 pin 5 | |
| | White | Tx Audio Out | DSUB9 pin 3 | |
| | Blue | Remote enable/disable | External Switch to Ground | |
| | Green | PTT Out | DSUB9 pin 7 | see note 1 |
| | Red | Switched B+ | DSUB9 pin 8 | see note 2 |
| | Yellow | Rx Audio In | DSUB9 pin 2 | see note 3 |
| | Violet | COR | DSUB9 pin 1 | |
| | Brown | Local Mic In | N/C | |
| | Grey | On Air Detect | N/C | |

| | | | | | | |
|---|---|---|---|---|---|---|
| **SVR Jumpers:** | JP1 | [-] | Remote Enable | **SVR Program:** | Mobile COR Polarity: | High |
| | J1 | [Out] | Tx audio level | | Mobile Type: | Conv |
| | J2 | [Out] | Tx audio impedance | | On-Air Polarity: | N/A |
| | J4 | [Out] | 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 | | | |
| | J7 | [Out] | Rx Sensitivity | | | |
| | J8 | [+] | Pull up resistor | | | |
| | J9 | [Out] | MCOR Pull up resistor | | | |

**Additional Modifications (SVR-200/250/300):** Disable local mic repeat function under *Common Data* menu.

**Additional Modifications (Radio):**

1. External PTT: Remove resistor R1502 from the RF board, side A. Also run a wire from the board side of the mic connector J2001 pin 3 to the back side of the DB9 accy. connector pin 7. On the local microphone: cut and re-route the yellow mic audio wire to a set of unused normally open contacts on the mic switch. (hot mic mod)

2. SB+ : Run a jumper wire from the emitter of Q1005, (side B of the board), to the board side of the DB9 accy. connector pin 8.

3. Make sure that JP3 is shorted. (this is factory default)

Revision Number
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Approval Initials