

# Application Note

**AN #: 283**

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**PYRAMID MODEL #:** SVR-200 / SVR-250 / SVR-300

**RADIO MODEL:** HYT TM-800

**ENGINEER:** C. Carbajal

**APPROVAL INITIALS**

ENGINEER

DEPT. HEAD

| <b>Connections:</b> | <b>SVR</b>   | <b>Function</b>       | <b>Radio DB-15 Accy. Connector</b> |
|---------------------|--------------|-----------------------|------------------------------------|
|                     | Black/Shield | Ground                | Pin 13                             |
|                     | White        | Tx Audio Out          | Pin 3                              |
|                     | Blue         | Remote enable/disable | External Switch to Ground          |
|                     | Green        | PTT Out               | Pin 6                              |
|                     | Red          | Switched B+           | Pin 14                             |
|                     | Yellow       | Rx Audio In           | Pin 5                              |
|                     | Violet       | COR                   | Pin 7                              |
|                     | Brown        | Local Mic Audio       | N/C                                |
|                     | Grey         | On Air Detect         | Pin 8 (See notes 1-2)              |

|                 |     |       |                                                     |                 |                      |            |
|-----------------|-----|-------|-----------------------------------------------------|-----------------|----------------------|------------|
| <b>SVR</b>      | JP1 | [-]   | Remote Enable                                       | <b>SVR</b>      | Mobile COR Polarity: | Low        |
| <b>Jumpers:</b> | J1  | [In]  | Tx audio level                                      | <b>Program:</b> | Mobile Type:         | Conv/Trunk |
|                 | J2  | [In]  | Tx audio impedance                                  |                 | On-Air Polarity:     | High       |
|                 | 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                               |                 | Local Mic Repeat     | No         |
|                 | J7  | [Out] | Rx Sensitivity                                      |                 |                      |            |
|                 | J8  | [+]   | Pull up resistor                                    |                 |                      |            |
|                 | J9  | [Out] | MCOR pull up resistor                               |                 |                      |            |
|                 | J11 | [In]  | Tx Audio Level (Not present on older SVR-200 units) |                 |                      |            |

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

None.

## **Additional Modifications (Radio):**

1. In the programming software/optional features/AUX menu set:  
AUX5 = External PTT  
AUX4 = RX Tone  
*If trunking, Set AUX5 = None*
2. If trunking, run a jumper from Pin 8 of DB-15 Accy Connector to Pin 2 of RF PA. This will provide On-Air Detect to the Pyramid device.