

Application Note

AN #: 325

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PYRAMID MODEL #: SVR-200 / SVR-250 / SVR-300 / SVR-350

RADIO MODEL: Motorola XPR 5550e Mototrbo

ENGINEER: C Carbajal

APPROVAL INITIALS

ENGINEER

DEPT. HEAD

Order the Pyramid factory interface cable: part # 7500-10-1092 for the SVR-200

part # 7500-10-1292 for the SVR-250 & SVR-300 **

| Connections: | SVR | Function | Radio |
|--------------|--------------|-----------------------|----------------------------|
| | Black/Shield | Ground | Accessory Connector Pin 8 |
| | White | Tx Audio Out | Accessory Connector Pin 11 |
| | Blue | Remote Enable/Disable | External Switch to Ground |
| | Green | PTT Out | Accessory Connector Pin 17 |
| | Red | Switched B+ | Accessory Connector Pin 7 |
| | Yellow | Rx Audio In | Accessory Connector Pin 14 |
| | Violet | COR | Accessory Connector Pin 19 |
| | Brown | Local Mic In | N/C |
| | Grey | ON Air Detect | Accessory Connector Pin 21 |

| | | | | | | |
|-----------------|-----|-------|-----------------------|-----------------|----------------------|-------------|
| SVR | JP1 | [-] | Remote Enable | SVR | Mobile COR Polarity: | High |
| Jumpers: | J1 | [Out] | Tx audio level | Program: | Mobile Type: | Conv/Trunk. |
| | J2 | [Out] | 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: | Flat |
| | J6 | [Out] | Local mic sensitivity | | Local Mic Repeat | No |
| | J7 | [In] | Receive sensitivity | | | |
| | J8 | [+] | Pull up resistor | | | |
| | J9 | [Out] | COR Pull up resistor | | | |

Additional Modifications (SVR-200 / SVR-250 / SVR-300): ** Use 7500-02-1212 Power Injector on SVR-300, SVR-P250 & SVR-350 Installations.

Additional Modifications:

For Motorola CPS 13.x - 15.x

- From the Motorola CPS --> **Accessories: GPIO Physical Pins:**
Pin #17 - External Mic. PTT, *Active Low*. Sets Accy Pin 17 as PTT.
Pin #19 - PL / Talkgroup Detect, *Active High*. Sets Accy Pin 19 as COR
Pin #21- Clear To Send, *Active High*. Sets Accy Pin 21 as On Air Detect.
- From the Motorola CPS--> **General Settings:**
"Off- Hook Disables PL"--- Do not have it checked.

For Motorola CPS 2.x

- From the Motorola CPS --> **General --> Accessory Configuration: GPIO Physical Pins:**
GPIO1- External Mic. PTT, *Active Low*. Sets Accy Pin 17 as PTT.
GPIO2 - PL / Talkgroup Detect, *Active High*. Sets Accy Pin 19 as COR
GPIO3 - Clear To Send, *Active High*. Sets Accy Pin 21 as On Air Detect.
- From the Motorola CPS--> **General --> General Settings:**
"Off- Hook Disables PL"--- Do not have it checked.