

Application Note

AN #: 514C

DATE: 01-Nov-00

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PYRAMID MODEL # 2012 / 2016 / Merlin

RADIO MODEL: EF Johnson 9800 /w Channel Change

ENGINEER: C. Carbajal

APPROVAL INITIALS

ENGINEER

DEPT. HEAD

| Connections: | Pyramid | Function | Radio |
|---------------------|----------------|-----------------|--------------------------------------|
| | Black/Shield | Ground | Pin 18 of J3 (Display PCB) |
| | White | Tx Audio Out | R409/PinPin 3 U308 (Audio/Logic PCB) |
| | Blue | On-Air Detect | Pin 6 of J301 (Audio/Logic PCB) |
| | Green | PTT Out | W301 (Audio/Logic PCB) |
| | Red | Switched B+ | Pin 10 of J3 (Display PCB) |
| | Yellow | Rx Audio In | Pin 10 of J302 (Audio/Logic PCB) |
| | Violet | COR | W309 (Audio/Logic PCB) |
| | Brown | Audio Mute Out | Junction of Q308 and R358 |
| | Grey | Mic Mute | W311 (Audio/Logic PCB) |

| | | | | | | |
|----------------------|----|-------|----------------|-----------------|----------------------|-------|
| 2012 / Merlin | J1 | [Out] | Tx audio level | Pyramid | Mobile COR Polarity: | Low |
| Jumpers: | J2 | [Out] | Local PTT Loop | Program: | Mobile Type: | Trunk |
| 2016 | J2 | [Out] | Tx audio level | | On-Air Polarity: | High |
| Jumpers: | J1 | [Out] | Local PTT Loop | | I/O Pin 9 | Mute |

Additional Modifications (Pyramid)None

Additional Modifications (Radio):

- 1) Program **Input 2** in the EFJ 9800 for **Data PTT R**
- 2) Program **Input 3** in the EFJ9800 for **Data ARQ**
- 3) Make sure you set a talk group for **Data=Yes** in the Group Information screen
- 4) In the **Bank** programming, set Data to the **System/Group** used for data operation.
- 5) In the **Main Radio Parameters**, Select **F3** for I/O Options. Set **Output_A** for **RX Data Group**.