

# Application Note

AN #: 514C

DATE: 01-Nov-00

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**PYRAMID MODEL #:** 2012 / 3012 / 2017 Merlin / 2016

**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

**Jumpers:** J2 [Out] PTT loop back

**2016** J1 [Out] PTT loop back

**Jumpers:** J2 [Out] TX audio level

**Pyramid** Mobile COR Polarity: Low  
**Program:** Mobile Type: Trunk  
On-Air Polarity: High  
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**.