

# Application Note

AN #: 500A

DATE: 04-Oct-00

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

**RADIO MODEL:** Motorola Maratrac

**ENGINEER:** W. Carlin

**APPROVAL INITIALS**

ENGINEER \_\_\_\_\_

DEPT. HEAD \_\_\_\_\_

Connections:	Pyramid	Function	Radio
	Black/Shield	Ground	{ Cntrl Cable Radio Conn. }
	White	Tx Audio Out	8 AWG Black (Main Power)
	Blue	On-Air Detect	J1 Pin 14
	Green	PTT Out	N/C
	Red	Switched B+	J1 Pin 12
	Yellow	Rx Audio In	J1 Pin 4
	Violet	COR	J1 Pin 11
(Optional)	Brown	Audio Mute Out	J1 Pin 18
(Optional)	Grey	Mic Mute	N/C
			N/C

**2012/Merlin Jumpers:** J1 [Out] TX audio level  
J2 [Out] PTT loop back

**2016 Jumpers:** J1 [Out] PTT loop back  
J2 [Out] TX audio level

**Pyramid Program:** Mobile COR Polarity: Low  
Mobile Type: Conv.  
On-Air Polarity: Low  
I/O Pin 9: Mute

**Additional Modifications (2012/2016/Merlin):** None

## Additional Modifications (Radio):

1. Run a jumper from J20 pin 3 (telco/prog connector) on the radio chassis interconnect board (HLN 5343B), to the negative side of C523 on the audio squelch board (audio PA mute).