

Application Note

AN #: 517E

DATE: 16-Jul-03

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PYRAMID MODEL #: 2012 / 2016 / Merlin

RADIO MODEL: Motorola CDM1550

ENGINEER: C. Carbjal

APPROVAL INITIALS

ENGINEER

DEPT. HEAD

Connections:	Pyramid	Function	Radio
	Black/Shield	Ground	Accessory Connector Pin 7
	White	Tx Audio Out	Accessory Connector Pin 5
	Blue	On Air Detect	Accessory Connector Pin 8
	Green	PTT Out	Accessory Connector Pin 3
	Red	Switched B+	Accessory Connector Pin 13
	Yellow	Rx Audio In	Accessory Connector Pin 11
	Violet	COR	Accessory Connector Pin 4
(Optional)	Brown	Audio Mute	Accessory Connector Pin 12
(Optional)	Grey	Mic Mute/Ch Chng	Accessory Connector Pin 6

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

Pyramid Mobile COR Polarity: Low
Program: Mobile Type: Conv.
On-Air Polarity: Low
I/O Pin 9 Channel Change Cont.

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

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

Additional Modifications (Radio):

1. From the Motorola Professional Radio CPS --> **Feature** pull down menu --> **Radio Configuration**, program the **Accessory Pins** as follows:

Pin #3 - External Mic. PTT (input) *Active Low*

Pin #4 - PL and CSQ Detect/Talkgroup Detect (output) *Active Low*

Pin #8 - Clear To Send (output) *Active Low*

The Following connections are optional:

Pin #12 - RX Audio Mute (input) *Active Low*

Pin #6 - Channel Select 1 (input) *Active Low* (will switch radio to channel 1 for data use)

2. From the Motorola Professional Radio CPS --> **Feature** pull down menu --> **Radio Configuration**, program the **Accessory Configuration** menu as follows:

1) Set **RX Audio Type** to **Flat Audio**

2) Set **External PTT Audio Source** to **Flat TX Audio**

3) Keep **Data PTT Overrides Voice** and **Headset** unchecked.