

Application Note

AN #: 541A

DATE: 9-Sep-04

Page 1 of 1

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

RADIO MODEL: Motorola Spectra Dash Mount

ENGINEER: C. Carbajal

APPROVAL INITIALS

ENGINEER _____

DEPT. HEAD _____

Connections:	Pyramid	Function	Radio
	Black/Shield	Ground	Pin 8
	White	Tx Audio Out	Pin 15
	Blue	On-Air Detect	Pin 3
	Green	PTT Out	Pin 13
	Red	Switched B+	Pin 4
	Yellow	Rx Audio In	Pin 11
	Violet	COR	Pin 12
(Optional)	Brown	Audio Mute Out	N/C
(Optional)	Grey	Channel Change	N/C

2012/Merlin	J1	[Out]	TX audio level	Pyramid Program:	Mobile COR Polarity:	High
Jumpers:	J2	[Out]	PTT loop back		Mobile Type:	Conv/Trunk
					On-Air Polarity:	High
2016	J1	[Out]	PTT loop back		I/O Pin 9	N/A
Jumpers:	J2	[Out]	TX audio level			

Additional Modifications (2012/2016/Merlin):

2016/2017 - Change R49 to 68K resistor. Change R52 to .01uF capacitor.

2012 - Change R6 to 68K resistor. Change R5 to .01uF capacitor.

Additional Modifications (Radio):

1. Install JU516 on the command PCB to disable the emergency input on the Spectra.
2. Install a jumper between J0503 pin 19 and pin 10 of U450. This brings COR to pin 12 of the accessory connector.
3. Install a jumper between J0503 pin 22 and Pin 15 of J0500. This brings On Air Detect to pin 3 of the accessory connector.