

Application Note

AN #: 524

DATE: 18-Jun-01

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PYRAMID MODEL # 2012 / 3012 / 2017 Merlin / 2016

RADIO MODEL: Maxon SM-2000 Series - Conventional

ENGINEER: C. Carbajal

APPROVAL INITIALS

ENGINEER _____

DEPT. HEAD _____

Connections:	Pyramid	Function	Radio
	Black/Shield	Ground	DB15 pin 13
	White	Tx Audio Out	DB15 pin 15
	Blue	On Air Detect	N/C
	Green	PTT Out	DB15 pin6
	Red	Switched B+	DB15 pin 14
	Yellow	Rx Audio In	DB15 pin 1
	Violet	COR	DB15 pin 3
(Optional)	Brown	Audio Mute Out	N/C
(Optional)	Grey	Mic Mute/Chan Chng	N/C

2012/Merlin	J1	[Out]	TX audio level	Pyramid	Mobile COR Polarity:	High
Jumpers:	J2	[In]	PTT loop back	Program:	Mobile Type:	Conv.
					On-Air Polarity:	Low
2016	J1	[In]	PTT loop back			
Jumpers:	J2	[Out]	TX audio level			

Additional Modifications (Merlin / 2012 / 2016): Align unit as per service manual.

Additional Modifications (Radio):

1. Remove black wire from pin 1 of option board connector. Jumper this wire through approx. a 50K Ohm resistor to pin 9 of IC 404. This is the MSK audio input to the radio.
2. Remove the black wire from pin 2 of option board connector. Jumper this wire to pin 2 of CN401. This will provide Switched +12V to pin 14 of the DB-15 connector.

Note: Option board is an add-on PCB connected to CON 404. Pin 1 of the white option board connector is closest to edge of radio chassis.