

Application Note

AN #: 548

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

RADIO MODEL: HYT TM-800

ENGINEER: C. Carbajal

APPROVAL INITIALS

ENGINEER

DEPT. HEAD

Connections:	Pyramid	Function	Radio DB-15 Accy. Connector
(Optional)	Black/Shield	Ground	Pin 13
	White	Tx Audio Out	Pin 3
	Blue	On-Air Detect	Pin 8 (See notes 1-2)
	Green	PTT Out	Pin 6
	Red	Switched B+	Pin 14
	Yellow	Rx Audio In	Pin 5 (See note 3)
(Optional)	Violet	COR	Pin 7
(Optional)	Brown	Audio Mute Out	N/C
(Optional)	Grey	Channel Change	N/C

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

Additional Modifications (2012/2016/Merlin):

2016/2017 - Change R49 to 68K resistor. Change R52 to .01uF capacitor. Change R33 to a .01uF capacitor.

Additional Modifications (Radio):

- In the programming software/optional features/AUX menu set:
AUX5 = External PTT
AUX4 = RX Tone
If trunking, Set AUX5 = None
- If trunking, run a jumper from Pin 8 of DB-15 Accy Connector to Pin 2 of RF PA. This will provide On-Air Detect to the Pyramid device.
- Install a 22K resistor in series with the Yellow RX Audio wire going to Pin 5 of DB-15 Accy. From the Pyramid side of the Yellow wire, install a 10K resistor to ground. This will reduce the amount of audio coming from the mobile radio to the Pyramid unit.