

Application Note

AN #: 505D

DATE: 18-May-03

Page 1 of 1

PYRAMID MODEL #: 2012 / 2016 / Merlin
RADIO MODEL: Kenwood TK-x30 HG Series
ENGINEER: W. Carlin

APPROVAL INITIALS

ENGINEER

DEPT. HEAD

Connections:	Pyramid	Function	Radio
	Black/Shield	Ground	J4 Pin 15
	White	Tx Audio Out	J4 Pin 5
	Blue	On-Air Detect	N/C
	Green	PTT Out	J4 Pin 8
	Red	Switched B+	J4 Pin 7
	Yellow	Rx Audio In	J4 Pin 4
	Violet	COR	J4 Pin 11
(Optional)	Brown	Audio Mute Out	J4 Pin 1
(Optional)	Grey	Mic Mute	J4 Pin 2

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

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

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

Additional Modifications (2012/2016/Merlin): None

Additional Modifications (Radio):

1. MCOR signal: Add a jumper from IC103 Pin 4 to CN106 pin 9 (HN2).
2. Tx Data input to radio: On the TK-x30 control PCB, remove R177 (adjacent to VR101) and install a jumper from point "E" on the control PCB to point "F" on the Tx/Rx PCB (located between VR301/VR302).
3. Mic Mute input: Remove R178 on the TK-x30 control PCB.
4. Speaker Mute input: On the TK-x30 control PCB, move the zero Ohm jumper from R131 to R181 located on the bottom of the PCB.