

Application Note

AN #: 526B

DATE: 1-May-2002

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PYRAMID MODEL #: 2012 / 2016 / Merlin

RADIO MODEL: Kenwood TK-930

ENGINEER: W. Carlin

APPROVAL INITIALS

ENGINEER

DEPT. HEAD

Connections:	Pyramid	Function	Radio {Accessory Conn J4}
Pin 1	Black/Shield	Ground	J4 Pin 6
Pin 2	White	Tx Audio Out	J4 Pin 13
Pin 3	Blue	On Air Detect	J4 Pin 11
Pin 4	Green	PTT Out	J4 Pin 8
Pin 5	Red	Switched B+	J4 Pin 7
Pin 6	Yellow	Rx Audio In	J4 Pin 3
Pin 7	Violet	COR	J4 Pin 10
Pin 8	Brown	Audio Mute	J4 Pin 1
Pin 9	Grey	Mic Mute / Chan Chng	J4 Pin 5

Add a jumper between J4 pins 9 and 12

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

Pyramid Mobile COR Polarity: Low
Program: Mobile Type: Conv./Trunk
On-Air Polarity: High

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

Additional Modifications (2012/2016/Merlin): None

Additional Modifications (Radio): Add the following jumpers to the TK-930 logic board:

1. From R166 (unconnected side) to CN2 pin 5B { transmit audio input }. Remove zero Ohm jumper W104.
2. From Q102 Collector to CN2 pin 3B { On-Air detect output }
3. From IC104 pin 7 to CN2 pin 3A { discriminator audio output }
4. Remove the brown wire from CN2 pin 5A and run a jumper to the junction of R161/R163 on the bottom side of the logic board (mic mute)
5. Remove the white/green wire from CN2 pin 2B connector and run a jumper to D101 center pin on the top side of the logic board. { COR output }
6. If tone stripping is desired, remove the green wire from CN2 pin 1A connector and run a jumper to Q107 collector. { Rx audio mute input }

Revision Number

Date

Approval Initials