

Application Note

AN #: 526B

DATE: 1-May-2002

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

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

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

2016 Jumpers: J1 [Out] PTT loop back
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 _____