

# Application Note

**AN #: 502B**

**DATE: 04- Oct- 00**

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**PYRAMID MODEL #** 2012 / 2016 / Merlin  
**RADIO MODEL:** Kenwood TK-840/940 Series  
**ENGINEER:** W. Carlin

**APPROVAL INITIALS**

**ENGINEER**

**DEPT. HEAD**

<b>Connections:</b>	<b><i>Pyramid</i></b>	<b><i>Function</i></b>	<b><i>Radio</i></b>
	Black/Shield	Ground	KCT-19 Pin 6
	White	Tx Audio Out	KCT-19 Pin 9
	Blue	On Air Detect	KCT-19 Pin 13
	Green	PTT Out	KCT-19 Pin 8
	Red	Switched B+	KCT-19 Pin 7
	Yellow	Rx Audio In	KCT-19 Pin 4
	Violet	COR	KCT-19 Pin 11
	Brown	Rx Mute Out	N/C
	Grey	Mic Mute Out	KCT-19 Pin 5

<b>2012/Merlin</b>	J1	[Out]	Tx audio level	<b>Pyramid</b>	Mobile COR Polarity:	High
<b>Jumpers:</b>	J2	[Out]	PTT Loopback	<b>Program:</b>	Mobile Type:	Conv/Trunk
<b>2016</b>	J2	[Out]	Tx audio level		On-Air Polarity:	High
<b>Jumpers:</b>	J1	[Out]	PTT Loopback		I/O Pin 9	Mute

**Additional Modifications (2012/2016/Merlin):** None

**Additional Modifications (Radio):** Refer to the Kenwood manual for parts location.

1. Plug "E" of the KCT-19 should be plugged into CN2. Remove wire # 1 (LOK) from plug "E" of the KCT-19 and connect to the collector of Q6 (TX B+).
2. Remove wire #8 (SQ) from plug "D" of the KCT-19 and connect to the base of Q19 (Point "AC" under the shield).

**Revision Number**

**Date**

**Approval Initials**