

Application Note

AN #: 544B

DATE: 21-Jun-06

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

RADIO MODEL: Kenwood TK-7160 / 8160

ENGINEER: C. Carbajal

APPROVAL INITIALS

ENGINEER _____

DEPT. HEAD _____

Order the Pyramid 2012 TK-x160 interface cable Part # 7515-10-1044

Order the Pyramid 2017/3012 TK-x160 interface cable Part # 7525-10-1044

Order the Pyramid 2016 TK-x160 interface cable Part # 7535-10-1044

Connections:	<i>Pyramid</i>	<i>Function</i>	<i>Radio</i>	
	Black/Shield	Ground	KCT-39 Pin 3	GND
	White	Tx Audio Out	KCT-39 Pin 5	DATAI
	Blue	On-Air Detect	KCT-39 Pin 14	FNC2
	Green	PTT Out	KCT-39 Pin 7	FNC3
	Red	Switched B+	KCT-39 Pin 1	SB+
	Yellow	Rx Audio In	KCT-39 Pin 4	DETO
	Violet	COR	KCT-39 Pin 11	FNC7
	Brown	Audio Mute Out	N/C	
(Optional)	Grey	Mic Mute/Channel Select	KCT-39 Pin 15	FNC1

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

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

Pyramid Program: Mobile COR Polarity: Low
Mobile Type: Conv/Trunk
On-Air Polarity: Low
I/O Pin 9 Chan. Chng.
Method Cont.

Additional Modifications (Pyramid): None

Additional Modifications (Radio): Install the KCT-39 into the radio.

Using the KPG-99 software, program the following:

- Program the **Edit/Optional Features**;
If data channel change is desired, set **Data Zone-CH** = XX - XX (Select **Zone - Channel** for use on data)
Set **External PTT /w QT/DQT** = Yes
- Program the **Edit/Function Port**,
Port 1 = Input, DTC
Port 2 = Output, TXS
Port 3 = Input, PTT
Port 7 = Output, Tone Operated Relay