

Application Note

AN #: 544

DATE: 18-Apr-05

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PYRAMID MODEL #: 2012 / 2016 / Merlin

RADIO MODEL: Kenwood TK-7160 / 8160

ENGINEER: C. Carbajal

APPROVAL INITIALS

ENGINEER

DEPT. HEAD

Connections:	Pyramid	Function	Radio	
	Black/Shield	Ground	KCT-19 Pin 3	GND
	White	Tx Audio Out	KCT-19 Pin 5	DATAI
	Blue	On-Air Detect	KCT-19 Pin 14	FNC2
	Green	PTT Out	KCT-19 Pin 7	FNC3
	Red	Switched B+	KCT-19 Pin 1	SB+
	Yellow	Rx Audio In	KCT-19 Pin 4	DETO
	Violet	COR	KCT-19 Pin 11	FNC7
	Brown	Audio Mute Out	N/C	
(Optional)	Grey	Mic Mute/Channel Select	KCT-19 Pin 15	FNC1

2012/Merlin	J1	[Out]	TX audio level	Pyramid	Mobile COR Polarity:	Low
Jumpers:	J2	[Out]	PTT loop back	Program:	Mobile Type:	Conv/Trunk
					On-Air Polarity:	Low
2016	J1	[Out]	PTT loop back		I/O Pin 9	Chan. Chng.
Jumpers:	J2	[Out]	TX audio level		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 4 = Input, PTT
Port 7 = Output, Tone Operated Relay