

Application Note

AN #: 542

DATE: 16-Nov-04

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PYRAMID MODEL #: 2012 / 2016 / Merlin
RADIO MODEL: Kenwood TK-7180 / TK-8180
ENGINEER: C. Carbajal

APPROVAL INITIALS

ENGINEER

DEPT. HEAD

Connections:	Pyramid	Function	Radio DB-25	
	Black/Shield	Ground	DB-25 Pin 7	GND
	White	Tx Audio Out	DB-25 Pin 5	DI
	Blue	On-Air Detect	DB-25 Pin 20	TXS
	Green	PTT Out	DB-25 Pin 13	EXT PTT
	Red	Switched B+	DB-25 Pin 14	SW B+
	Yellow	Rx Audio In	DB-25 Pin 19	DEO
	Violet	COR	DB-25 Pin 8	TOR
(Optional)	Brown	Audio Mute Out	N/C	
(Optional)	Grey	Channel Change	DB-25 Pin 24	DTC

2012/Merlin Jumpers:	J1	[Out]	TX audio level	Pyramid Program:	Mobile COR Polarity:	High
	J2	[Out]	PTT loop back		Mobile Type:	Conv/Trunk
2016 Jumpers:	J1	[Out]	PTT loop back		On-Air Polarity:	High
	J2	[Out]	TX audio level		I/O Pin 9	Chanl. Chng.
					Method = Continuous	

Additional Modifications (2012/2016/Merlin):

Additional Modifications (Radio):

Using the KPG-89D software, program the following:

1. From the **Extended Function/AUX** screen, set **Pin 8**: *I/O= Output, Function = TOR, Active = High*
2. From the **Extended Function/AUX** screen, set **Pin 13**: *I/O= Input, Function = EXT PTT (Data)*
3. From the **Extended Function/AUX** screen, set **Pin 20**: *I/O= Output , Function = TXS, Active = High*
4. From the **Extended Function/AUX** screen, set **Pin 24**: *I/O= Input, Function = DTC*