

Application Note

AN #: 522C

DATE: 21-Jun-06

Page 1 of 1

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

RADIO MODEL: Kenwood TK-6110 Low Band

ENGINEER: C. Carbajal

APPROVAL INITIALS

ENGINEER

DEPT. HEAD

Order the Pyramid 2012 TK-6110 interface cable Part # 7511-10-1044

Order the Pyramid 2017/3012 TK-6110 interface cable Part # 7521-10-1044

Order the Pyramid 2016 TK-6110 interface cable Part # 7531-10-1044

Connections:	SVR-200	Function	Radio
	Black/Shield	Ground	Accessory Connector Pin 15
	White	Tx Audio Out	Accessory Connector Pin 5
	Blue	On Air Detect	Accessory Connector Pin 1 *See Note 3
	Green	PTT Out	Accessory Connector Pin 8
	Red	Switched B+	Accessory Connector Pin 7
	Yellow	Rx Audio In	Accessory Connector Pin 4
	Violet	COR	Accessory Connector Pin 14 *See Note 2
	Brown	Audio Mute	N/C
	Grey	Mute/Channel Chng	N/C

2012/Merlin	J1	[Out]	TX audio level	Pyramid	Mobile COR Polarity:	High
Jumpers:	J2	[Out]	PTT loop back	Program:	Mobile Type:	Conv
					On-Air Polarity:	High
2016	J1	[Out]	PTT loop back			
Jumpers:	J2	[Out]	TX audio level			

Additional Modifications (2012/2016/Merlin): Follow the alignment procedures in the Pyramid Service Manual.

Additional Modifications (Radio):

1. In the KPG59D Software, under **Optional Features**, program **Ext. PTT w/ Mic Mute = YES**.
2. If you are decoding DQT/QT (DCS/CTCSS) in the TK-6110, you need to **remove the GREY wire going Pin 8 of CN2** and jumper it to the **junction of R135 and C139** on the under side of the main PCB.
3. **Remove the RED wire going Pin 2 of CN2** and jumper it to the **Pad labeled 8T**. Pad 8T is located near Q117. This is the TX 8 Volt line, it provides a **On Air Detect** signal to the Pyramid data unit.
4. **Remove the Yellow wire from Pin 4 of CN2** and jumper it **through a 100K Ohm resistor** to pin 2 of IC 711. This is located under the copper shield on the top side of the main PCB. (The junction of R764 and R768 is connected to pin 2 of IC 711). This is your data audio modulation input.

Revision Number _____

Date _____

Approval Initials _____