

Application Note

AN #: 552

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PYRAMID MODEL #: Mobile Data

RADIO MODEL: Vertex VX 5500

ENGINEER: W. Carlin

APPROVAL INITIALS

ENGINEER

DEPT. HEAD

Connections:	Pyramid	Function	Radio DB25 of Vertex VX 5500
	Black/Shield	Ground	Pin 7
	White	Tx Audio Out	Pin 13
	Blue	On-Air Detect	Pin 12
	Green	PTT Out	Pin 11
	Red	Switched B+	Pin 14
	Yellow	Rx Audio In	Pin 17
	Violet	COR	Pin 24
	Brown	Audio Mute Out	N/C
	Grey	Channel Change	N/C

2012/3012	J1	[In]	TX audio level	Pyramid	Mobile COR Polarity:	Low
Jumpers:	J2	[Out]	PTT loop back	Program:	Mobile Type:	Conv
					On-Air Polarity:	Low
2016/Merlin	J1	[Out]	PTT loop back		I/O Pin 9	N/A
Jumpers:	J2	[In]	TX audio level			

Additional Modifications (2012/3012/2016/Merlin):

2016/Merlin- Replace R52 with .01uFd 0805 chip cap

2012- Replace R5 with .01uFd 0805 chip cap

3012- Replace R19 with .01uFd 0805 chip cap.

This modification provides flat tx audio response.

Additional Modifications (Radio):

1. Ensure solder jumper **JP3 is In** and **JP4 is out**. (Connects disc audio to aux conn pin 17).
2. Ensure solder jumper **JP6 is In** and **JP5 is out**. (Tx audio level).
3. Ensure **JP8 is In** (SWB+ to aux conn pin 14) and replace the SMT fuse next to JP8 with a 1A SMT fuse.