

# Application Note

**AN #: 515A**

DATE: 04-Oct-00

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**PYRAMID MODEL #:** 2012 / 2016 / Merlin

**RADIO MODEL:** Uniden SMS-925

**ENGINEER:** C. Carbajal

**APPROVAL INITIALS**

ENGINEER

DEPT. HEAD

Connections:	Pyramid	Function	Radio
	Black/Shield	Ground	Acc Conn Pin 4
	White	Tx Audio Out	Acc Conn Pin 5
	Blue	On Air Detect	Acc Conn Pin 12
	Green	PTT Out	Acc Conn Pin 7
	Red	Switched B+	Acc Conn Pin 8
	Yellow	Rx Audio In	Acc Conn Pin 9
	Violet	COR	Acc Conn Pin 10
	Brown	Audio Mute	Acc Conn Pin 11
	Grey	Mic Mute	Acc Conn Pin 1

<b>2012/Merlin</b>	J1	[Out]	Tx audio level	<b>Pyramid</b>	Mobile COR Polarity:	Low
<b>Jumpers:</b>	J2	[Out]	Local PTT loop	<b>Program:</b>	Mobile Type:	Trunk
					On-Air Polarity:	High
<b>2016</b>	J2	[Out]	Tx audio level		I/O Pin 9	Mute
<b>Jumpers:</b>	J1	[Out]	Local PTT loop			

**Additional Modifications (Pyramid):** None

## Additional Modifications (Radio):

1. Add the following jumpers from the accessory connector to:

Acc Conn Pin 4 to chassis ground

Acc Conn Pin 5 to J603 Pin 4 on logic PCB (**Write** aka mic hi)

Acc Conn Pin 7 to J603 Pin 5 on logic PCB (**PTT**)

Acc Conn Pin 8 to Q404 collector (square isolated pad just left of C415 1000  $\mu$ fd 25V)

Acc Conn Pin 9 to J602 Pin 6 on logic PCB (**Set Tone** aka volume hi)

Acc Conn Pin 10 to J601 Pin 7 on logic PCB (**RMU** unmute indicator)

Acc Conn Pin 11 to

Acc Conn Pin 12 to Q204 collector (**TX 8V** as on-air indicator)

Acc Conn Pin 1 to