

# Application Note

AN #: 164A

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**PYRAMID MODEL #:** SVR-200 / SVR-250

**RADIO MODEL:** Midland Syntech II

**ENGINEER:** W. Carlin

APPROVAL INITIALS

ENGINEER

DEPT. HEAD

Connections:	SVR	Function	Radio
	Black/Shield	Ground	J319 Pin 12 (Control head connector)
	White	Tx Audio Out	J319 Pin 5
	Blue	Remote enable/disable	J319 Pin 7 or ext. switch to ground
	Green	PTT Out	J319 Pin 8
	Red	Switched B+	J319 Pin 10
	Yellow	Rx Audio In	J319 Pin 9
	Violet	COR	J319 Pin 1
(Optional)	Brown	Local Mic In	N/C
	Grey	On Air Detect	N/C

<b>SVR</b>	JP1	[-]	Remote Enable	<b>SVR</b>	Mobile COR Polarity:	High
<b>Jumpers:</b>	J1	[Out]	Tx audio level	<b>Program:</b>	Mobile Type:	Conv.
	J2	[In]	Tx audio impedance		On-Air Polarity:	Low
	J4	[In]	Local mic audio loop		Tx Audio Response:	De-emp
	J5	[In]	Local mic PTT loop		Rx Audio Response:	Pre-emp
	J6	[Out]	Local Mic Sensitivity			
	J7	[Out]	Rx Sensitivity			
	J8	[+]	Pull up resistor			

**Additional Modifications (SVR-200 / SVR-250):** None

## Additional Modifications (Radio):

1. In the Tx/Rx unit, add a jumper from Q9009 pin 13 (logic board) to option connector J125 pin 2 (Horn) on the TR board.
2. On the underside of the TR board, replace R111 (270 Ohm chip resistor) with a 1K chip resistor.

*continued...*

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3. Remove the wires that go between J319 (speaker connector) and J320 positions 5, and 7-12 in the control head. Add the following wires to J319 :

J319 pin 12	to	J312 pin 12
J319 pin 10	to	J307 pin 7
J319 pin 5	to	J312 pin 3
J319 pin 9	to	J312 pin 1
J319 pin 8	to	J315 pin 4 (mic connector)
J319 pin 7	to	Q302 base

4. If the VR-100 blue wire is connected to J319 pin 7 and the front panel will be used to activate the repeater, program the radio for ***aux buttons/leds type 1*** under the options programming; the dimmer function will then activate the repeater by pressing ***func + del*** keys.