

# Application Note

AN #: 236A

DATE: 29-Apr-04

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**PYRAMID MODEL #:** SVR-200 / SVR-250  
**RADIO MODEL:** Midland Syntech II - Low Band  
**ENGINEER:** C. Carbajal

**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	External 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	J319 Pin 6 (use with RCS-200)
(Optional)	Grey	On Air Detect	J319 Pin 3 (use with RCS-200)

<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	[Out]	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			
	J9	[Out]	COR Pull Up			

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

## Additional Modifications (Radio):

1. On the logic board, add a jumper from IC909 pin 13 to the option connector P125 pin 2 (Horn) on the TR board. This connects COR from IC909 with the Horn wire which is brought to the control head at Pin 1 of J319.
2. On the underside of the TR board, replace R111 (270 Ohm chip resistor) with a 1K chip resistor.

*continued...*

Revision Number \_\_\_\_\_

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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)