

# Application Note

**AN #: 312**

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

**RADIO MODEL:** Simoco SDM730

**ENGINEER:** C. Carbajal

**APPROVAL INITIALS**

ENGINEER \_\_\_\_\_

DEPT. HEAD \_\_\_\_\_

Connections:	SVR	Function	Radio	DB-26HD Connector
	Black/Shield	Ground	Pin 5	GND
	White	Tx Audio Out	Pin 8	EXT_MIC
	Blue	Remote enable/disable	External Switch to Ground	
	Green	PTT Out	Pin 16	ACC_PTT *see note 1
	Red	Switched B+	Pin 4	EXT_PWR
	Yellow	Rx Audio In	Pin 8	RX_AUDIO
	Violet	COR	Pin 14	PRGM_I01
	Brown	Local Mic Audio	N/C	
	Grey	On Air Detect	Pin 15	PRGM_I02

<b>SVR</b>	JP1	[-]	Remote Enable	<b>SVR</b>	Mobile COR Polarity:	Low
<b>Jumpers:</b>	J1	[Out]	Tx audio level	<b>Program:</b>	Mobile Type:	Conv
	J2	[Out]	Tx audio impedance		On-Air Polarity:	Low
	J4	[Out]	Local mic audio loop		Tx Audio Response:	De-emp
	J5	[Out]	Local mic PTT loop		Rx Audio Response:	Pre-Emp
	J6	[Out]	Local mic Sensitivity		Local Mic Repeat	No
	J7	[In]	Rx Sensitivity			
	J8	[+]	Pull up resistor			
	J9	[Out]	MCOR pull up resistor			
	J11	[Out]	TX audio level			

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

## Additional Modifications (Radio):

*Ensure radio has firmware R1.2 or greater.*

1. In the wiring harness DB-26, jumper Pin 16 (ACC\_PTT) and Pin 20 (ACC\_DET4). This grounds Pin 20 during portable-to-base calls and thus enables EXT\_MIC on Pin 8.
2. In the *FPP Software, Common/Accessories* menu, set the **Steering Volume = 10**.
3. In the *FPP Software, Conventional/Accessories* menu, set **Pin #14 = High, Speaker On Detect**.