

# Application Note

**AN #: 280A**

DATE: 5-May-10

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**PYRAMID MODEL #:** SVR-200 / SVR-250 / SVR-300

**RADIO MODEL:** Johnson 5300 ES Series Mobile

**ENGINEER:** C. Carbajal

**APPROVAL INITIALS**

ENGINEER

DEPT. HEAD

<b>Connections:</b>	<b>SVR</b>	<b>Function</b>	<b>Radio DB25 {UDDI-PVP Port} {EFJ PN 597-5357-736-01}</b>
	Black/Shield	Ground	DB25 Pin 24
	White	Tx Audio Out	DB25 Pin 12
	Blue	Remote enable/disable	DB25 Pin 14
	Green	PTT Out	DB25 Pin 1
	Red	Switched B+	DB25 Pin 22
	Yellow	Rx Audio In	DB25 Pin 10
	Violet	COR	DB25 Pin 6
	Brown	Local Mic Audio	DB25 Pin 11
	Grey	On Air Detect	DB25 Pin 5

<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/Trunk
	J2	[Out]	Tx audio impedance		On-Air Polarity:	High
	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	Yes
	J7	[Out]	Rx Sensitivity			
	J8	[-]	Pull up resistor			
	J9	[Out]	MCOR pull up resistor			

**Additional Modifications (SVR-200 / SVR-250 / SVR-300):** None

## **Additional Modifications (Radio):**

1. Add a jumper from pin 24 (ground) to pin 21 of the DB-25. This enables the external microphone input on pin 12.
2. Program one of the soft keys to enable/disable the SVR by selecting "Radio Wide Options", "Assign Buttons", click on the desired key and select "Remote Access".

*Note: If you are trying to use our older 7553-10-1045 cable designed for an SVR-200 to the Johnson 5300 SL (NON ES) radio, you will have to run a jumper from pin 24 to pin 21 of the DB-25 accy connector to enable the external microphone input (TX\_MIC\_IN) located at pin 12 of the 5300 ES DB-25.*