

# Application Note

AN #: 205

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

**RADIO MODEL:** Kenwood TKx90 Series Mobile Dual Band

**ENGINEER:** W. Carlin

**APPROVAL INITIALS**

ENGINEER \_\_\_\_\_

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

Connections:	SVR	Function	Radio	DB25 Connector { Primary radio }
	Black/Shield	Ground	Pin 7	Ground
	White	Tx Audio Out	Pin 13	MI/DI input
	Blue	Remote enable/disable	Pin 21	PF3 Out
	Green	PTT Out	Pin 4	PF3 In
	Red	Switched B+	Pin 14	Sw B+
	Yellow	Rx Audio In	Pin 17	AFO
	Violet	COR	Pin 22	PF 4 Out
	Brown	Local Mic In	N/C	
	Grey	On Air Detect	Pin 11	Tx Sense

<b>SVR</b>	JP1	[-]	Remote Enable	<b>SVR</b>	Mobile COR Polarity:	<b>Note 1</b>
<b>Jumpers:</b>	J1	[In]	Tx audio level	<b>Program:</b>	Mobile Type:	Conv
	J2	[In]	Tx audio impedance		On-Air Polarity:	High
	J4	[In]	Local mic audio loop		Tx Audio Response:	De-emp
	J5	[Out]	Local mic PTT loop		Rx Audio Response:	Flat
	J6	[In]	Local Mic Sensitivity			
	J7	[In]	Rx Sensitivity	<b>Note 1:</b>	SN prior 106xxxxx	:High
	J8	[+]	Pull up resistor		after 106xxxxx	:Low
	J9	[In]	MCOR Pull up resistor			

## Additional Modifications (SVR-200/SVR-250):

None.

## Additional Modifications (Radio):

1. Move the zero Ohm resistor on the radio logic board from R641 to R640.
2. Replace F501 (0.5A) with a 2A fuse.
3. Install Sw B+ jumper (SB) just to the left of F501.
4. Add a jumper from CN3 pin 2 to CN4 pin 2 on the KRK8-DBH interface PCB of the *primary radio*.

Program one of the soft keys for Aux C output to enable the repeater. Program PF3 *input* as Ext PTT.

Program PF4 *output* as TOR (tone operated relay). Program PF3 *output* as AUX C.

Program *Minimum Volume* greater than 0 (Edit\Optional Features) and ensure *Mic Mute on Ext PTT* is *disabled*.