

Application Note

AN #: 205

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

SVR	JP1	[-]	Remote Enable	SVR	Mobile COR Polarity:	Note 1
Jumpers:	J1	[In]	Tx audio level	Program:	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			
	J8	[+]	Pull up resistor			
	J9	[In]	MCOR Pull up resistor			
					Note 1: SN prior 106xxxxx :High after 106xxxxx :Low	

Additional Modifications (SVR-200 / SVR-250 / SVR-300):

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 3A 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**.