

# Application Note

AN #: 156B

DATE: 21-Jun-06

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**PYRAMID MODEL #:** SVR-200 / SVR-250  
**RADIO MODEL:** Kenwood TK-940/941 Series trunking  
**ENGINEER:** W. Carlin

**APPROVAL INITIALS**

ENGINEER \_\_\_\_\_

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

**Order the Pyramid TK-x40 interface cable Part # 7503-10-1044 for the SVR-200**

**Order the Pyramid TK-x40 interface cable Part # 7503-10-1244 for the SVR-250**

Connections:	SVR	Function	Radio
	Black/Shield	Ground	KCT-19 Pin 6
	White	Tx Audio Out	KCT-19 Pin 5
	Blue	Remote enable/disable	KCT-19 Pin 10
	Green	PTT Out	KCT-19 Pin 8
	Red	Switched B+	KCT-19 Pin 7
	Yellow	Rx Audio In	KCT-19 Pin 4
	Violet	COR	KCT-19 Pin 11
(Optional)	Brown	Local Mic In	N/C
	Grey	On Air Detect	KCT-19 Pin 13

<b>SVR</b>	JP1	[-]	Remote Enable	<b>SVR</b>	Mobile COR Polarity:	High
<b>Jumpers:</b>	J1	[In]	Tx audio level	<b>Program:</b>	Mobile Type:	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:	Flat
	J6	[Out]	Local Mic Sensitivity			
	J7	[Out]	Rx Sensitivity			
	J8	[+]	Pull up resistor			

**Additional Modifications (SVR-200/SVR-250):** Disable local mic repeat option in programming software.

**Additional Modifications (Radio):** Refer to page 75 of the Kenwood manual for parts location.

1. Plug "E" of the KCT-19 should be plugged into CN2. Remove wire # 1 (LOK) from plug "E" of the KCT-19 and connect to the collector of Q6 (TX B+).
2. Remove wire #8 (SQ) from plug "D" of the KCT-19 and connect to the base of Q19 (Point "AC" under the shield).

Note: The TK-940/941 Aux button must be programmed for *external relay*, and jumper **R6** must be *removed* on the bottom side of the TK-940 main PCB (refer to page 20 of the Kenwood Service manual).

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

Date \_\_\_\_\_

Approval Initials \_\_\_\_\_