

Application Note

AN #: 183A

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PYRAMID MODEL #: SVR-200 / SVR-250

RADIO MODEL: Kenwood TK-620/720

ENGINEER: W. Carlin

APPROVAL INITIALS

ENGINEER _____

DEPT. HEAD _____

Connections:	SVR	Function	Radio
	Black/Shield	Ground	J4 Pin 6 { Accessory Conn. }
	White	Tx Audio Out	J4 Pin 5
	Blue	Remote enable/disable	J4 Pin 1 or Ext. Switch to Gnd
	Green	PTT Out	J4 Pin 8
	Red	Switched B+	J4 Pin 7
	Yellow	Rx Audio In	J4 Pin 11
	Violet	COR	J4 Pin 10
	Brown	Local Mic In	N/C
	Grey	On Air Detect	N/C

SVR	JP1	[-]	Remote Enable	SVR	Mobile COR Polarity:	Low
Jumpers:	J1	[In]	Tx audio level	Program:	Mobile Type:	Conv
	J2	[Out]	Tx audio impedance		On-Air Polarity:	xxx
	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			
	J7	[Out]	Rx Sensitivity			
	J8	[+]	Pull up resistor			

Additional Modifications (SVR-200 / SVR-250): Disable *Local Mic Repeat* under *Common Data*

Additional Modifications (Radio): Refer to the Kenwood manual for parts location.

1. Add a 100K Resistor from CN9 pin 1 to CN7 Pin 9 (Det) for receive audio. Add a jumper from CN9 pin 2 to CN7 pin 10 for CTCSS applications or to CN7 pin 12 for carrier squelch applications.
2. In order to use the Noise Blanker switch (*TK-620*) to activate the repeater (Blue wire connected to J4-1) remove R60 on the TK-620 main board (between Z8 & Z9); cut the trace at CN11 pin 5. Add a jumper from CN11 pin 5 to R60 closest to CN11. **Note: Noise blanker will be disabled;** to enable noise blanker full time, ground the unconnected pad of R60.

Revision Number _____

Date _____

Approval Initials _____