Application Note

AN #: 196E

DATE:21-Jun-06

PYRAMID MODEL #: SVR-200 / SVR-250
RADIO MODEL: Kenwood TKx90 Series Mobile
ENGINEER: C. Carbajal

APPROVAL	INITIALS
ENGINEER	
DEPT. HEAD	

Order the Pyramid TK-x90 interface cable Part # 7500-10-1045 for the SVR-200
Order the Pyramid TK-x90 interface cable Part # 7500-10-1245 for the SVR-250

Connections:	***SVR***	***Function***	***Radio***	DB25 Connector
	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 19	Det Out
	Violet	COR	Pin 22	PF 4 Out
	Brown	Local Mic In	N/C	
	Grey	On Air Detect	Pin 11	Tx Sense

SVR Jumpers:	JP1	[-]	Remote Enable	**SVR Program:**	Mobile COR Polarity:	***Note 1***
	J1	[In]	Tx audio level		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): None.

Additional Modifications (Radio):

1. Move the zero ohm resistor on the radio logic board from R641 to R640.
2. Solder a jumper wire from the display unit side of F502 to the accessory port side of F501.
3. In the KPG-44D Programming Softawre, program:
   a) One of the soft keys for Aux C output to enable the repeater.
   b) AI3 ***input*** as Ext PTT.
   c) AO4 ***output*** as TOR (tone operated relay).
   d) AO3 ***output*** as AUX C.

Note: On older SVR-200 units, if you experience alternator noise on your on the mobile radio side of the system, we suggest you remove J1 and 2 and replace R13 with a value of 50K-100K. On newer SVR-200 units and SVR-250 units, remove J1, J2 and J11.