Application Note

AN #: 311

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Page 1 of 1

PYRAMID MODEL #: SVR-200 / SVR-250 / SVR-300 RADIO MODEL: Kenwood TK-D740 & TK-D840 DMR

ENGINEER: C. Carbajal

APPROVAL INITIALS

ENGINEER

DEPT. HEAD

Connections:		SVR		Function		Radio	DB-15HD Connector	
		Black/Shield White Blue Green Red Yellow Violet Brown		Remote en PTT Out Switched I Rx Audio I COR Local Mic	Tx Audio Out Remote enable/disable PTT Out Switched B+ Rx Audio In COR Local Mic Audio		Ground MI2 Port 5 Port 4 SB+ DETO/AF Port 3	O*
SVR Jumpers:	JP1 J1 J2 J4 J5 J6 J7 J8 J9	[+] [Out] [Out] [Out] [Out] [In] [-] [Out]	Remote Enable Tx audio level Tx audio impedance Local mic audio loop Local mic PTT loop Local mic Sensitivity Rx Sensitivity Pull up resistor MCOR pull up resistor		SVR Program:	Mobile Ty On-Air Po Tx Audio	larity: Response: Response:	Low Conv/Trunk Low De-emp Pre-Emp No

Additional Modifications (SVR-200 / SVR-250 / SVR-300): None

Additional Modifications (Radio):

- 1. Remove R761, located near DB-15 on main PCB. This frees up Pin 6 so we can use this pin for AFO, in step 2.
- 2. Run a jumper wire from Pad AFO to FNC1 (CN713) solder pad, located near DB-15 on main PCB.
- 3. In the *Edit/Optional Features 1* menu, set the Minimum Volume Type = Lowest Limit, Minimum Volume = 20. Because the radio's audio output is variable, this ensures the user will not turn the volume all the way down, prevent the SVR from repeating in Base to Portable direction.
- 3. In the *Key Assignment* menu set one of the soft keys for AUX A to enable the repeater.
- 4. In the *Extended Function/AUX Tab* set the following:
 - a. Port 3 / DB-15HD 8 Pin = Output, TOR
 - b. Port 4 / DB-15HD 9 Pin = Input, Ext PTT (Voice)
 - c. Port 5 / DB-15HD 10 Pin = Output, AUX
 - d. Port 6 / DB-15HD 11 Pin = Output, TXS