

Application Note

AN #: 208E

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PYRAMID MODEL #: SVR-200 / SVR-250

RADIO MODEL: Motorola CDM1250/1550

ENGINEER: C Carbjal

APPROVAL INITIALS

ENGINEER _____

DEPT. HEAD _____

Order the Pyramid CDM interface cable Part # 7501-10-1093 for the SVR-200

Order the Pyramid CDM interface cable Part # 7501-10-1293 for the SVR-250

Connections:	SVR	Function	Radio
	Black/Shield	Ground	Accessory Connector Pin 7
	White	Tx Audio Out	Accessory Connector Pin 2
	Blue	Remote enable/disable	Accessory Connector Pin 14*
	Green	PTT Out	Accessory Connector Pin 3
	Red	Switched B+	Accessory Connector Pin 13
	Yellow	Rx Audio In	Accessory Connector Pin 11
	Violet	COR	Accessory Connector Pin 4
	Brown	Local Mic In	N/C
	Grey	On Air Detect	Accessory Connector Pin 8

SVR	JP1	[-]	Remote Enable	SVR	Mobile COR Polarity:	Low
Jumpers:	J1	[Out]	Tx audio level	Program:	Mobile Type:	Conv.
	J2	[Out]	Tx audio impedance		On-Air Polarity:	Low
	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		Local Mic Repeat	No
	J7	[Out]	Receive sensitivity			
	J8	[+]	Pull up resistor			
	J9	[Out]	COR Pull up resistor			

Additional Modifications (SVR-200 / SVR-250): * Note: If you are using a RCS-200 with this configuration, you will need to follow the application note for the RCS-200 and connect an external switch to ground of remote enable line. Pin 14 of the accessory connector will be re-programmed as a channel select line input.

Additional Modifications (Radio):

- From the Motorola CPS --> **Radio Configuration**, program the **Accessory Pins**:
Pin #3 - External Mic. PTT (input) Active Low
Pin #4 - PL and CSQ Detect/Talkgroup Detect (output) Active Low
Pin #8 - Clear To Send (output) Active Low
Pin #14 - Auxiliary Control #1 (output) Active Low *(see note)
- From the Motorola CPS --> Tree View --> Conventional Buttons, Program button F4 "Aux Control 1". This assigns button F4 of the radio front panel to enable the SVR when pressed.
- From the Motorola CPS --> **Radio Configuration**, program the **Accessory Configuration**:
 - RX Audio Type = Flat Audio
 - Ext. PTT Audio Source = Ext Mic Audio

IF YOU ARE USING A PYRAMID FACTORY CABLE, remove the loop from Pin 15/16 of the 16 pin connector.