Application Note

AN #: 271B
DATE: 29-Dec-22

PYRAMID MODEL #: SVR-200 / SVR-250 / SVR-300 / SVR-350
RADIO MODEL: Motorola CM300, CM300D
ENGINEER: C Carbjal

APPROVAL INITIALS
ENGINEER
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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, 300 & 350 **

Connections:	***SVR***	***Function***	***Radio***
	Black/Shield	Ground	Accessory Connector Pin 7
	White	Tx Audio Out	Accessory Connector Pin 2
	Blue	Remote enable/disable	External Switch to Ground
	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 12
	Brown	Local Mic In	N/C
	Grey	On Air Detect	Accessory Connector Pin 8

SVR Jumpers:	JP1	[-]	Remote Enable	**SVR Program:**	Mobile COR Polarity:	Low
	J1	[Out]	Tx audio level		Mobile Type:	Conv.
	J2	[Out]	Tx audio impedance		On-Air Polarity:	Low
	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]	Receive sensitivity			
	J8	[+]	Pull up resistor			
	J9	[Out]	COR Pull up resistor			

Additional Modifications (SVR-200 / SVR-250 / SVR-300): Note: You will need to move the Purple Wire from Pin 4 to Pin 12 on the Motorola connector of the 7501-10-xx93 cable. ** Use 7500-02-1212 Power Injector on SVR-300, SVR-P250 & SVR-350 Installations.

Additional Modifications (Radio):

For Original Motorola CPS

1. From the Motorola CPS --> ***Radio Configuration***, program the ***Accessory Configuration***:
   Pin #3 - External Mic. PTT (input) *Active Low*
   Pin #12 - PL and CSQ Detect/Talkgroup Detect (output) Active Low
   Pin #8 - Cear To Send (output) Active Low

3. From the Motorola CPS --> ***Radio Configuration,*** program the ***Accessory Configuration:***
   1) RX Audio Type = Flat Audio

For Motorola CPS 2.x

1. From the Motorola CPS --> ***General --> Accessory Configuration: GPIO Physical Pins:***
   GPIO1 - Ext. Mic. PTT *Active Low*
   GPIO4 - Cear To Send *Active Low*
   GPIO7 - PL and CSQ Detect/Talkgroup Detect *Active Low*
   Set RX Audio Type = Flat Unsquelch