Application Note

AN #: 272C
DATE: 26-Jul-12

PYRAMID MODEL #: SVR-200 / SVR-250 / SVR-300 / SVR-350
RADIO MODEL: Motorola XPR 4300, 4500, 4550 Mototrbo
ENGINEER: C Carbajal

APPROVAL INITIALS
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Order the Pyramid factory interface cable: part # 7500-10-1092 for the SVR-200
part # 7500-10-1292 for the SVR-250, SVR-300/350 **

Connections:	***SVR***	***Function***	***Radio***
	Black/Shield	Ground	Accessory Connector Pin 8
	White	Tx Audio Out	Accessory Connector Pin 11
	Blue	Remote Enable/Disable	External Switch to Ground
	Green	PTT Out	Accessory Connector Pin 17
	Red	Switched B+	Accessory Connector Pin 7
	Yellow	Rx Audio In	Accessory Connector Pin 14
	Violet	COR	Accessory Connector Pin 19
	Brown	Local Mic In	N/C
	Grey	ON Air Detect	Accessory Connector Pin 21

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

Additional Modifications (SVR-200 / SVR-250 / SVR-300): ** Use 7500-02-1212 Power Injector on SVR-300, SVR-P250 & SVR-350 Installations.

Additional Modifications (Conventional or Capacity Plus Radios):

1. From the Motorola CPS --> ***Accessory Configuration***: ***GPIO Physical Pins:***
   Pin #17 - External Mic. PTT (input) *Active Low.* Sets Accy Pin 17 as PTT.
   Pin #19 - PL / Talkgroup Detect (output) Active *High.* Sets Accy Pin 19 as COR
   Pin #21- Clear To Send (output) Active *High.* Sets Accy Pin 21 as On Air Detect.
2. From the Motorola CPS--***General Settings:***
   "Off- Hook Disables PL"---Do not have it checked.

Additional Modifications (Connect Plus Radios [Requires CP OB Firmware 01.03.67 or newer]):

1. From the Motorola CPS --> ***Accessory Configuration***: ***GPIO Physical Pins:***
   Pin #17 - Generic Input 1, Active Low. This ties accy port pin 17 to the Connect Plus OB External PTT
   Pin #19 - PL / Talkgroup Detect (output) Active *High.* Sets Accy Pin 19 as COR
   Pin #21 - Cear To Send (output) Active *High.* Sets Accy Pin 21 as On Air Detect.
2. From the Motorola CPS--***General Settings:***
   "Off- Hook Disables PL"---Do not have it checked.
3. From the Motorola Connect Plus Option Board CPS --> ***Accessories***
   Generic Input #1 = External PTT. This enables external PTT on pin 17 of the accessory connector.