

Application Note

AN #: 223B

DATE: 21-Jun-06

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PYRAMID MODEL #: SVR-200 / SVR-250 / SVR-300
RADIO MODEL: Motorola Spectra - Digital ASTRO Trunking
ENGINEER: C. Carbajal

APPROVAL INITIALS

ENGINEER _____

DEPT. HEAD _____

Order the Pyramid Spectra-Astro interface cable Part # 7501-10-1095 for the SVR-200

Order the Pyramid Spectra-Astro interface cable Part # 7501-10-1295 for the SVR-250 / SVR-300

Connections:	SVR	Function	Radio	DB15 on rear of chassis (J2)
	Black/Shield	Ground	P2 pin 8	(Dig Ground)
	White	Tx Audio Out	P2 pin 15	(Mic Hi) * see notes
	Blue	Remote enable/disable	External Sw	to ground
	Green	PTT Out	P2 pin 13	(PTT) * see notes
	Red	Switched B+	P2 pin 4	(SW B+)
	Yellow	Rx Audio In	P2 pin 11	(Disc) * see notes
	Violet	COR	P2 pin 12	(VIP Out 1)
	Brown	Local Mic In	N/C	
	Grey	On Air Detect	P2 pin 3	(VIP Out 2)

SVR	JP1	[-]	Remote Enable	SVR	Mobile COR Polarity:	High
Jumpers:	J1	[Out]	Tx audio level	Program:	Mobile Type:	Conv/Trunk
	J2	[Out]	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:	Pre-Emp
	J6	[In]	Local Mic Sensitivity			
	J7	[Out]	Rx Sensitivity			
	J8	[+]	Pull up resistor			
	J9	[Out]	MCOR Pull up resistor			

Additional Modifications (SVR-200): Adjust RV1 for 5VDC
Change C21B to .1uF 0805 Capacitor

Additional Modifications (SVR-250 / SVR-300): Change C1 to .1uF 0805 Capacitor

Additional Modifications (Radio):

1. Install a jumper between the Audio PA IC (TDA 7256) pin 10 (PA enable) and J503 pin 19 (VIP Out 1). This provides COR to accessory connector J2.
2. Install a jumper between J500 pin 15 (K9.4V) and J503 pin 22 (VIP Out 2) to bring On Air Detect to J2.
3. Install JU513 and Remove JU521 to enable external Mic Hi on accessory connector J2.
4. Install JU500 and Remove JU518 to enable external PTT on accessory connector J2.
5. Install JU528 and Remove JU519 to enable Disc Audio Out on accessory connector J2.