

Application Note

AN #: 161B

DATE: 3-Oct-97

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PYRAMID MODEL #: SVR-200 / SVR-250

RADIO MODEL: Ericsson EDACS Rangr with S825 control

ENGINEER: W. Carlin

APPROVAL INITIALS

ENGINEER _____

DEPT. HEAD _____

Connections:	SVR	Function	Radio
	Black/Shield	Ground	J1 Pin 3
	White	Tx Audio Out	J1 Pin 5
	Blue	Remote enable/disable	J1 Pin 8 or J3 pin 16 (see page 2)
	Green	PTT Out	J1 Pin 7
	Red	Switched B+	J1 Pin 12
	Yellow	Rx Audio In	J2 Pin 1 (see radio modification)
	Violet	COR	J2 Pin 6 (see radio modification)
(Optional)	Brown	Local Mic In	N/C
	Grey	On Air Detect	J2 Pin 4 (see radio modification)

SVR	JP1	[-]	Remote Enable	SVR	Mobile COR Polarity:	Low
Jumpers:	J1	[Out]	Tx audio level	Program:	Mobile Type:	Trunk
	J2	[In]	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:	Flat
	J6	[Out]	Local Mic Sensitivity			
	J7	[Out]	Rx Sensitivity			
	J8	[+]	Pull up resistor			

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

Additional Modifications (Radio):

1. Remove the wht/grn wire from J2-7; remove the shield from J2-6 and re-insert in J2-7. Remove the pin from the wht/grn wire and combine with the violet wire from the SVR before crimping the new pin onto the wire combination. Re-insert into J2-6.
2. Combine the SVR grey wire with the S825 wht/gry wire from J2-4 and re-insert into J2-4.
3. Combine the SVR yellow wire with the S825 grey wire from J2-1 and re-insert into J2-1.
4. Disc audio to SVR: On the main PCB of the Ranger mobile, remove C643 and add a jumper from the C643 pad closest to IC620/621 to audio test point TP601 adjacent to C640 (middle of the PCB).

continued...

Revision Number _____

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Additional Modifications (Radio):

5. Tx 9V for SVR on-air sense input: Add a jumper from TP601 pin 8 (near back of compartment) to J801 (cable interface connector) pin 7 (see diagram below).
6. Audio unmute for SVR COR sense input: Add a jumper from IC 617 pin 39 to J801 (cable interface connector) pin 27 (see diagram below).
7. Program one of the S825 AUX buttons for *external relay* if SVR blue wire is connected to J1 pin 8. If blue wire is connected to J3 pin 16, SVR will become active when handheld is removed from vehicular charger.

