

Application Note

AN #: 172

DATE: 9-Apr-96

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PYRAMID MODEL #: SVR-200 / SVR-250

RADIO MODEL: Motorola Syntor X w/ Series 9000 Control

ENGINEER: W. Carlin

APPROVAL INITIALS

ENGINEER _____

DEPT. HEAD _____

Connections:	SVR	Function	Radio
	Black/Shield	Ground	Cable Assembly Pin 8
	White	Tx Audio Out	Cable Assembly Pin 27
	Blue	Remote enable/disable	Cable Assembly Pin 24
	Green	PTT Out	Cable Assembly Pin 1
	Red	Switched B+	Cable Assembly Pin 6
	Yellow	Rx Audio In	Cable Assembly Pin 2
	Violet	COR	Cable Assembly Pin 35
	Brown	Local Mic In	N/C
	Grey	On Air Detect	Cable Assembly Pin 36

SVR	JP1	[-]	Remote Enable	SVR	Mobile COR Polarity:	High
Jumpers:	J1	[Out]	Tx audio level	Program:	Mobile Type:	Conv.
	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:	Flat
	J6	[In]	Local Mic Sensitivity			
	J7	[Out]	Rx Sensitivity			
	J8	[+]	Pull Up Resistor			

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

Additional Modifications (Radio):

1. In the TX/RX unit on the personality board, add a wire jumper from J1 (Front Connector) pin 35 to U302 pin 13 (audio unmute). This will be the COR signal for the SVR. Add a wire jumper from J1 Pin 36 to P601 Pin 1 (K9.4V). This will be the local mic PTT output to the SVR.
2. Add a wire jumper between pins 4 and 28 of J1 in the Control Head.
3. To facilitate installation of the SVR, and interface cable can be made up similar to the one used for the PAC/RT® installations, that goes between the radio and the control cable at the TX/RX unit. A list of parts that can be ordered from Motorola is listed on page 2.

continued...

Revision Number _____

Date _____

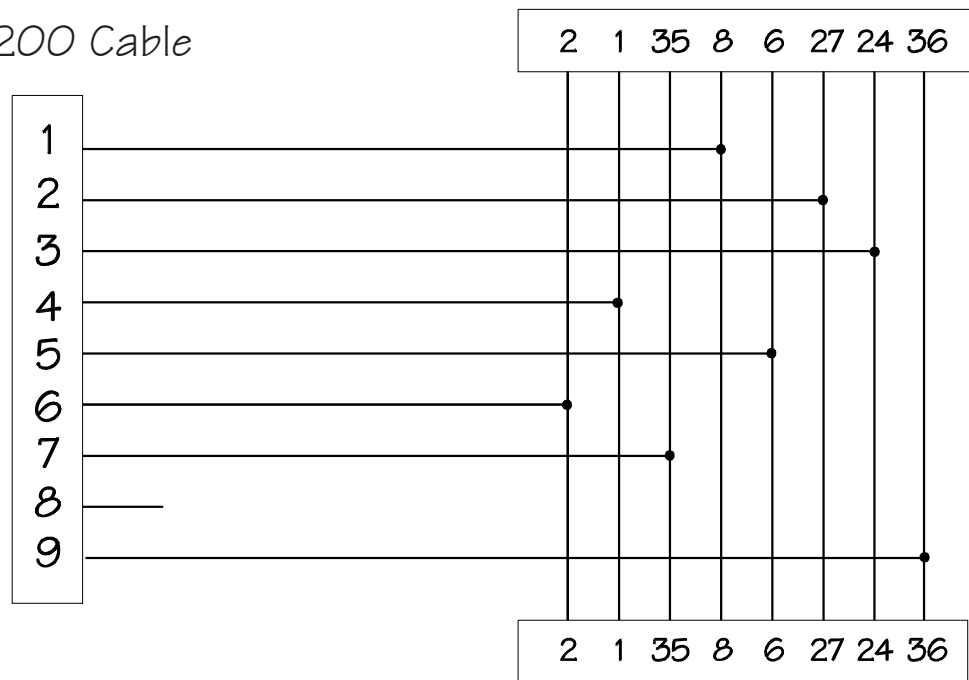
Approval Initials _____

Qty	Motorola Part #	Description
1	15-80158K03	Housing
1	15-80159K03	Cover
1	07-80266L01	Strain relief clamp
1	32-80058H03	Gasket
1	32-80072J01	Gasket
1	32-80004L02	Gasket
1	36-80220B05	Extended Knob
4	03-10944B28	Cover Screw
2	39-80161K02	Power Contact
27	39-80162K02	Signal Contact

Make the connections to the SVR-200 cable as shown:



SVR-200 Cable



Notes:

Mates with Cable

1. Pins that pass through the connector with no connection to the SVR-200 are not shown. Total of 23 signal pins are used. Individual pins not used are 7, 9, 12, 15, 16, 20, 21, 23, 28, 29, 30, 31, 33 & 34. Power pins are A and B.
2. Ensure that the Brown wire (Pin 24 at the radio connector) is not connected at the control head side of the cable. The Brown wire (pin 24) is usually not in use at the control head side of the cable and may be used to activate the SVR-200 remotely via a toggle switch mounted in the passenger compartment. A SPST switch to ground may be connected to Pin 4 of the VIP connector which is routed to Pin 28 of the control cable which is pin 24 at the radio connector.