

POWER SEATS

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DESCRIPTION AND OPERATION

INTRODUCTION

Power seats can be adjusted in 8 different directions:

- Up or down
- Forward or back
- Tilt forward or rearward
- Recliner up or down

Two single armature permanent magnet reversible motors are coupled through cables to worm gear box assemblies. They are located in the seat tracks and upper supports. The two single gear motor assemblies attach to the seat tracks provide the various seat movements.

The electrical circuit is protected by a 20 amp circuit breaker located on the Junction Block and a 40 amp fuse in the Power Distribution Center.

DIAGNOSIS AND TESTING

DIAGNOSTIC PROCEDURE

Before any testing is attempted the battery should be carefully charged and all connections and terminals cleaned and tightened to insure proper continuity and grounds.

With dome lamp on, apply switch in direction of failure. If dome lamp dims the seat motor is trying to work indicating mechanical jamming. If dome lamp does not dim, then proceed with the following electrical tests.

CIRCUIT BREAKER

Find correct circuit breaker on fuse block. Pull out slightly but be sure that circuit breaker terminals still contact terminals in fuse block. Connect ground wire of voltmeter to a good ground. With probe of voltmeter positive wire, check both terminals of circuit breaker for battery voltage. If only one terminal checks at battery voltage, circuit breaker is defective

and must be replaced. If neither terminal shows battery voltage, check for open or shorted circuit to circuit breaker.

MOTOR TESTS

(1) Remove power seat switch from seat. Refer to Switch Removal and Installation.

(2) Disconnect wire harness connector.

(3) Check Pin 5 for battery voltage and Pin 1 for ground.

(4) To test the seat motors and verify proper seat responses, refer to (Fig. 1) and the Seat Motor Test table. Using two jumper wires, connect one to a battery supply and the second to a ground. Connect the other ends to the seat wire harness connector as described in the Seat Motor Test table.

SWITCH TEST

(1) Remove switch, refer to Switch Removal and Installation in this section.

(2) Using an ohmmeter, perform the Seat Switch Continuity Test table and (Fig. 2). If there is no continuity at any of the switch positions, replace switch.

VOLTAGE

The following test will determine whether or not voltage is continuous through the body harness to the switch.

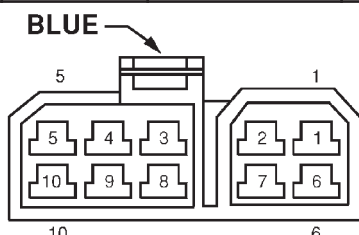
(1) Remove power seat switch from mounting position and disconnect switch from wiring harness.

(2) Using a voltmeter, connect the ground lead to Pin 5 of the switch harness connector. Connect the positive lead to Pin 1. If battery voltage the ground and B+ circuit is OK. If no voltage check circuit breaker and repair as necessary.

DIAGNOSIS AND TESTING (Continued)

SEAT MOTOR TEST

SEAT CONNECTOR			
CONNECT JUMPER		SEAT ACTION	
B (+)	B (-)	DRIVER SIDE	PASSENGER SIDE
PIN 9	PIN 6	FRONT RISER UP	FRONT RISER DOWN
PIN 6	PIN 9	FRONT RISER DOWN	FRONT RISER UP
PIN 10	PIN 3	FORWARD	FORWARD
PIN 3	PIN 10	REARWARD	REARWARD
PIN 8	PIN 7	REAR RISER UP	REAR RISER DOWN
PIN 7	PIN 8	REAR RISER DOWN	REAR RISER UP
PIN 4	PIN 2	RECLINER UP	RECLINER UP
PIN 2	PIN 4	RECLINER DOWN	RECLINER DOWN



VIEWED FROM TERMINAL END

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Fig. 1 Power Seat Wire Harness Pin Call-Out

REMOVAL AND INSTALLATION

SEAT ASSEMBLY

REMOVAL

- (1) Remove adjuster attaching bolts from floor pan. Move seat as necessary for access.
- (2) Open hood, disconnect and isolate the negative battery cable remote terminal from the remote battery post (Fig. 3).
- (3) Disconnect wiring harness power lead at carpet.
- (4) Remove assembly from vehicle.

INSTALLATION

For installation, reverse the above procedure. Install and torque mounting bolts and nuts to 60 to 80 N·m (44 to 59 ft. lbs.). Connect the battery negative remote cable and check seat operation.

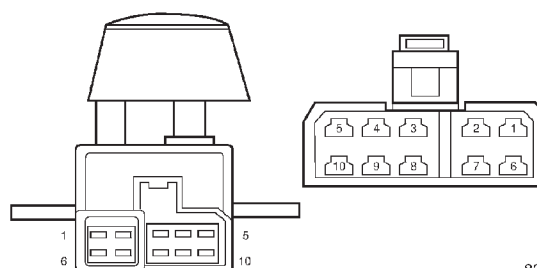
SEAT SWITCH

REMOVAL

- (1) Open hood, disconnect and isolate the negative battery cable remote terminal from the remote battery post (Fig. 3).

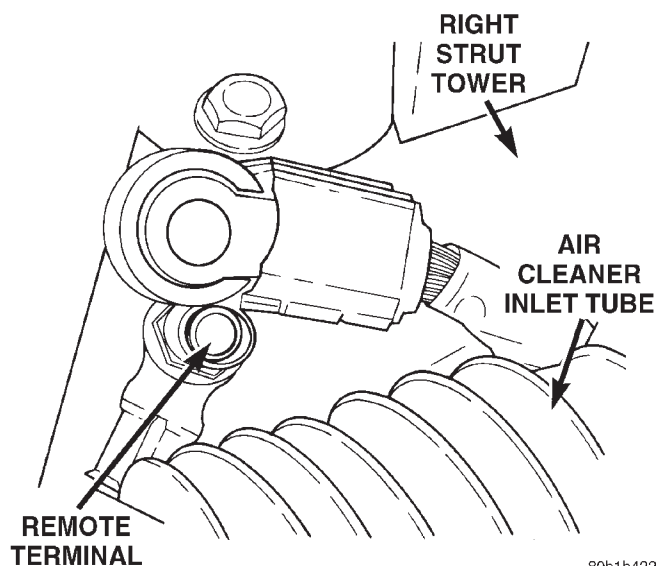
SEAT SWITCH CONTINUITY TEST

SWITCH POSITION	CONTINUITY BETWEEN PINS	
	DRIVER	PASSENGER
OFF	PIN 5 TO 4 PIN 5 TO 3 PIN 5 TO 2 PIN 5 TO 10 PIN 5 TO 9 PIN 5 TO 8 PIN 5 TO 7 PIN 5 TO 6	PIN 5 TO 4 PIN 5 TO 3 PIN 5 TO 2 PIN 5 TO 10 PIN 5 TO 9 PIN 5 TO 8 PIN 5 TO 7 PIN 5 TO 6
FRONT RISER UP	PIN 5 TO 6 PIN 1 TO 9	PIN 5 TO 9 PIN 1 TO 6
FRONT RISER DOWN	PIN 5 TO 9 PIN 1 TO 6	PIN 5 TO 6 PIN 1 TO 9
CENTER SWITCH FORWARD	PIN 5 TO 3 PIN 1 TO 10	PIN 5 TO 3 PIN 1 TO 10
CENTER SWITCH REARWARD	PIN 5 TO 10 PIN 3 TO 1	PIN 5 TO 10 PIN 3 TO 1
REAR RISER UP	PIN 5 TO 7 PIN 1 TO 8	PIN 5 TO 8 PIN 1 TO 7
REAR RISER DOWN	PIN 5 TO 8 PIN 1 TO 7	PIN 5 TO 7 PIN 1 TO 8
RECLINER UP	PIN 5 TO 2 PIN 4 TO 1	PIN 5 TO 2 PIN 4 TO 1
RECLINER DOWN	PIN 5 TO 4 PIN 2 TO 1	PIN 5 TO 4 PIN 2 TO 1



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Fig. 2 Seat Switch Pin Call-Out



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Fig. 3 Negative Battery Cable Remote Terminal

REMOVAL AND INSTALLATION (Continued)

- (2) Remove cushion side shield (Fig. 4).
- (3) Disconnect wiring from switch.
- (4) Remove knobs from the switch.
- (5) Remove four switch attaching screws.
- (6) Remove switch from cushion side shield

INSTALLATION

For installation, reverse the above procedure.

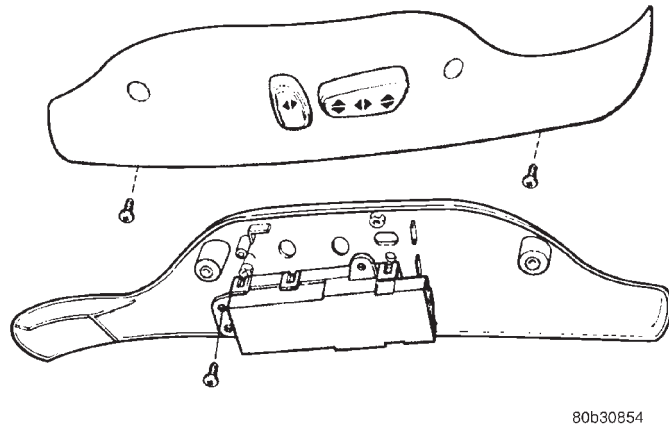


Fig. 4 Cushion Side Shield

SEAT TRACK

REMOVAL

- (1) Seat removed from vehicle. Using a clean area to place seat.

- (2) Remove two seat back mounting screws and also remove two seat back recliner screws (Fig. 5).
- (3) Remove four seat track mounting screws from cushion pan.
- (4) Remove track from seat.

INSTALLATION

For installation, reverse the above procedure.

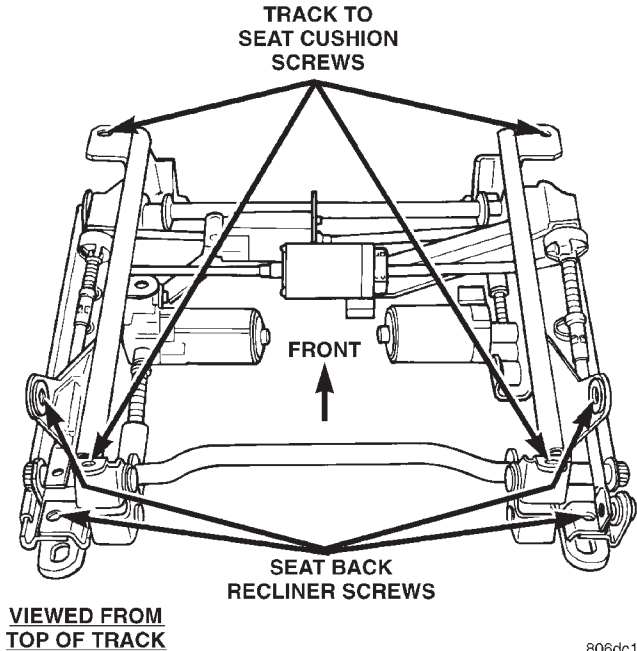


Fig. 5 Seat Track Removal