

POWER SEAT SYSTEMS

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DESCRIPTION AND OPERATION

POWER SEAT SYSTEMS

DESCRIPTION

Power seats can be adjusted in 6 different directions:

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

OPERATION

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 and provide the various seat movements.

The electrical circuit is protected by a 20 amp circuit breaker located in the junction block.

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 the correct circuit breaker in the junction block. Pull out slightly but be sure that circuit breaker terminals still contact terminals in junction 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.

SEAT MOTOR

- (1) Remove power seat switch from seat.
- (2) Disconnect wire harness connector.
- (3) Check Pin A for battery voltage and Pin B for ground.
- (4) To test the seat motors, refer to the (Fig. 1), and verify proper seat responses. 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 Connector table (Fig. 1).

SEAT CONNECTOR

CONNECT JUMPER		SEAT ACTION
BATTERY	GROUND	DRIVER SIDE
PIN J	PIN E	FRONT RISER UP
PIN E	PIN J	FRONT RISER DOWN
PIN K	PIN L	FORWARD
PIN L	PIN K	BACKWARD
PIN N	PIN M	REAR RISER UP
PIN M	PIN N	REAR RISER DOWN

DIAGNOSIS AND TESTING (Continued)

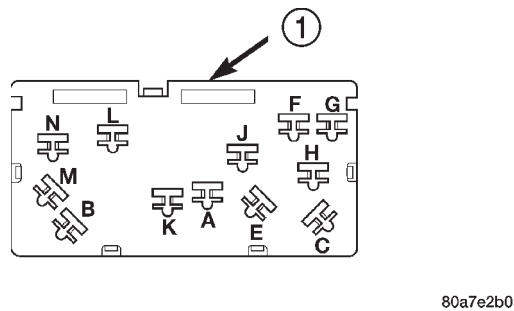


Fig. 1 Seat Motor Switch Connector

1 – BLACK

SEAT MOTOR SWITCH

- (1) Remove switch from mounting position.
- (2) Using an ohmmeter, perform the Switch Continuity Tests below and refer to (Fig. 2) for Pin locations. If there is no continuity at any of the switch positions, replace switch.

SEAT SWITCH CONTINUITY TEST

SWITCH POSITION	CONTINUITY BETWEEN
OFF	B-N, B-J, B-M, B-E, B-K, B-L
VERTICAL UP	B-M, B-E, A-N, A-J
VERTICAL DOWN	B-N, B-J, A-M, A-E
HORIZONTAL AFT	B-K, A-L
HORIZONTAL FORWARD	B-L, S-K
FRONT TILT UP	S-J, B-E
FRONT TILT DOWN	A-E, B-J
REAR TILT UP	A-N, B-N

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.

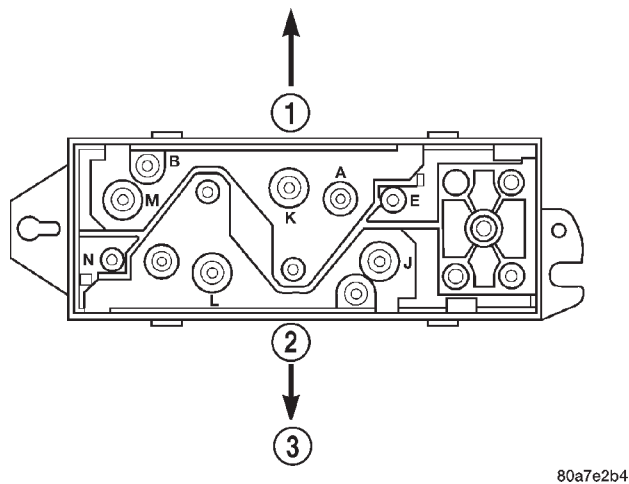


Fig. 2 Power Seat Switch

- 1 – UP
- 2 – DOWN
- 3 – TERMINALS SHOWN AS VIEWED FROM REAR OF SWITCH

REMOVAL AND INSTALLATION

FRONT SEAT ASSEMBLY

Refer to Group 23, Body for Front Seat Removal and Installation.

POWER FRONT SEAT ADJUSTER

REMOVAL

- (1) Disconnect and isolate the battery negative remote cable (Fig. 3).
- (2) Remove Front Seat Assembly from vehicle. Refer to Group 23 Body, for Removal and Installation.
- (3) Remove Front Seat Back. Refer to Group 23 Body for Removal and Installation
- (4) Separate power seat switch and harness from seat adjuster.
- (5) Remove four power seat adjuster mounting screws from cushion pan and remove from seat assembly.

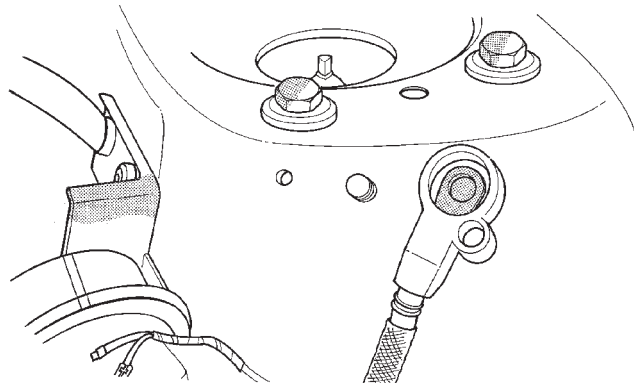
INSTALLATION

For installation, reverse the above procedures.

REMOVAL AND INSTALLATION (Continued)

POWER FRONT SEAT SWITCH**REMOVAL**

(1) Disconnect and isolate the battery negative remote cable (Fig. 3).



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Fig. 3 Disconnect Battery Negative Remote Cable

- (2) Remove left cushion side shield.
- (3) Disconnect wiring from switch.
- (4) Remove the seat and recliner switch knobs.
- (5) Remove attaching screws and switch from bezel.

INSTALLATION

For installation, reverse the above procedure.

