

POWER SEATS

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DESCRIPTION AND OPERATION

INTRODUCTION

Power seats can be adjusted in 6 different directions:

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

Three single armature permanent magnet reversible motors are coupled through cables to worm gear transmission assemblies. These motor assemblies are located in the seat tracks and provide the seat with various motions.

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

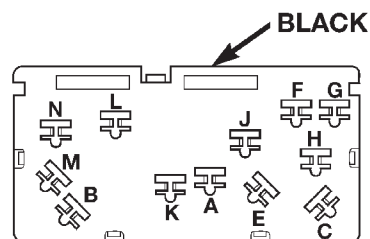
Find correct circuit breaker on fuse block. Pull out slightly but be sure that circuit breaker terminals still contact terminals in fuse block. Connect ground wire of voltmeter to a good ground. With probe of voltmeter positive wire, check both terminals of circuit breaker for battery voltage. If only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

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 Chart (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



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Fig. 1 Seat Motor Switch Connector

DIAGNOSIS AND TESTING (Continued)

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.

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) Connect one lead of test light to Pin B of the ground terminal, and touch other test light lead to Pin A.
 - (3) If test light comes on, harness to switch is good. If test light does not come on, perform circuit breaker test.

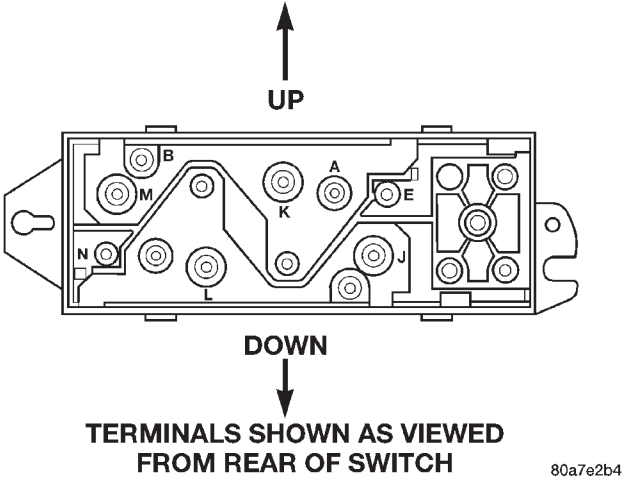


Fig. 2 Power Seat Switch

REMOVAL AND INSTALLATION

SEAT ASSEMBLY

Refer to Group 23 Body, for Power Front Seat Removal procedures.

SEAT TRACK

Refer to Group 23 Body, for Power Seat Adjuster Removal procedures.

SEAT SWITCH

REMOVAL

- (1) Remove lower recliner handle.
- (2) Remove screws holding seat side sheild to seat frame.
- (3) Disconnect wiring from switch.
- (4) Remove screws attaching switch to seat side sheild.
- (5) Remove switch.

INSTALLATION

For installation, reverse the above procedure.