POWER SEATS

CONTENTS

DESCRIPTION AND OPERATION

INTRODUCTION

Power seats can be adjusted in 8 different directions:

- Front riser up and down
- Rear riser up and down
- Forward and backward
- Seat back recliner up and down

Four 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 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 MOTORS

(1) Remove power seat switch from seat.
(2) Disconnect wire harness connector.
(3) Check Pin 5 for battery voltage and Pin 1 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 Switch Harness Connector Circuit Test table (Fig. 1).

DIAGNOSIS AND TESTING (Continued)

SWITCH HARNESS CONNECTOR CIRCUIT TEST

CAVITY	TEST		FUNCTION
	(+)	(–)	
1			GROUND
2	2	4	SEATBACK RECLINER UP
3	3	6	SEAT BACKWARD
4	4	2	SEATBACK RECLINER DOWN
5			BATTERY
6	6	3	SEAT FORWARD
7	7	10	FRONT RISER UP
8	8	9	REAR RISER UP
9	9	8	REAR RISER DOWN
10	10	7	FRONT RISER DOWN

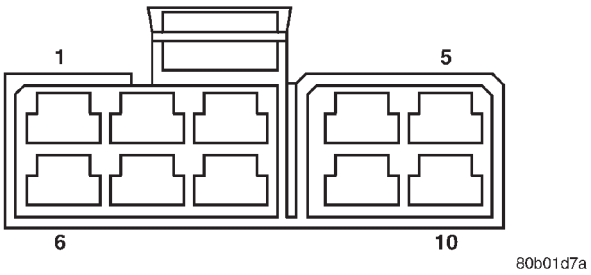

Fig. 1 Switch Harness Connector

SEAT SWITCH

(1) Remove switch from mounting position Refer to (Fig. 2)

(2) Using an ohmmeter, perform the switch continuity tests. Refer to the Switch Continuity Test table. If there is no continuity in any of the switch positions, replace switch.

SWITCH CONTINUITY TEST

SWITCH POSITION	CONTINUITY BETWEEN
OFF	1-2, 1-3, 1-4, 1-6, 1-7, 1-8, 1-9, 1-10
SEATBACK RECLINER UP	5-2, 1-4
SEATBACK RECLINER DOWN	5-4, 1-2
SEAT BACKWARD	5-3, 1-6
SEAT FORWARD	5-6, 1-3
FRONT RISER UP	5-4, 1-10
FRONT RISER DOWN	5-10, 1-7
REAR RISER UP	5-8, 1-9
REAR RISER DOWN	5-9, 1-8

DIAGNOSIS AND TESTING (Continued)

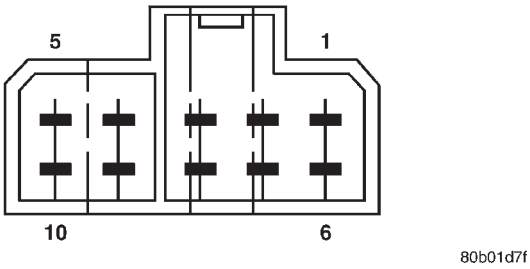

Fig. 2 Power Seat Switch

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 is seen, the ground and B+ circuit is OK. If no voltage is seen, check the circuit breaker and repair as necessary.

REMOVAL AND INSTALLATION

FRONT SEAT ASSEMBLY

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

POWER FRONT SEAT ADJUSTER

Before the seat adjuster can be serviced, the front seat assembly must be removed from the vehicle. Refer to Group 23, Body for Front Seat Removal and Installation.

REMOVAL

Once the front seat is removed, lay it on a clean surface upside down to expose the underside of the seat assembly.

(1) Remove the four screws retaining the left and right seat cushion side shields.

(2) Disconnect the power seat switch connectors from the seat cushion side shield and remove side shield.

(3) Remove the four bolts retaining the power seat adjuster to the seat assembly and remove.

INSTALLATION

For installation, reverse the above procedures.

POWER SEAT SWITCH

REMOVAL

(1) Remove left cushion side shield (Fig. 3).

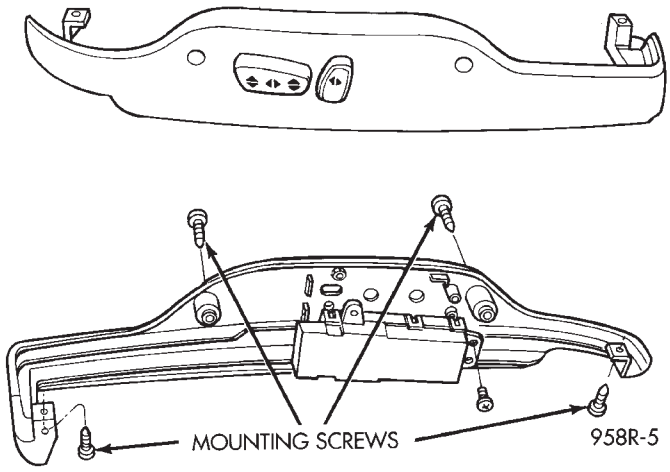

Fig. 3 Switch Removal

(2) Disconnect wiring from switch.

(3) Remove the seat and recliner switch knobs.

(4) Remove attaching screws and switch from bezel.

INSTALLATION

For installation, reverse the above procedure.