

POWER MIRRORS

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DESCRIPTION AND OPERATION

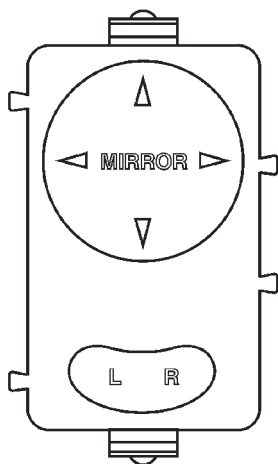
INTRODUCTION

Power mirrors are controlled by a single switch assembly located on the driver's door trim panel. The switch has a rocker button marked L (left) and R (right) for mirror selection and a single platform button for mirror UP, DOWN, RIGHT and LEFT movement (Fig. 1).

The motors which operate the mirrors are part of the mirror assembly and cannot be replaced separately.

The vehicle is equipped with an Ignition-Off Draw Fuse which is used when it is originally shipped from the factory. This fuse is located in the Junction Block and helps to prevent battery discharge during storage when disconnected.

This fuse is included in the power mirror circuitry and should be checked if the mirrors are inoperative.



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Fig. 1 Power Mirror Switch

HEATED MIRROR

Heated mirrors are available with Memory Mirrors and Rear Window Defogger only. The heated mirror is controlled by the rear window defogger switch. Only time that the heated mirror is on is when the rear window defogger is on. The mirror should become warm to the touch.

DIAGNOSIS AND TESTING

AUTOMATIC DAY/NIGHT INSIDE MIRROR

Operational test:

- Turn ignition switch to the ON position with the vehicle in park.
- Place mirror switch in the high position.
- Cover the forward facing sensor with dark cloth to keep out any ambient light.
- Shine a light into the rear facing sensor, watch to see if the mirror darkens.

With the mirror darkened, place the vehicle in reverse, the mirror should return to its normal condition.

If the above conditions are met the mirror is operating properly. If not OK, test voltage.

Test three way connector harness.

- (1) Pin 1 Ignition Switch in run position, should have battery voltage.
- (2) Pin 2 Should have continuity to Ground.
- (3) Pin 3 Senses when the transmission is in reverse. There should be battery voltage present when transmission is in the reverse position.
- (4) If test is OK replace Mirror.
- (5) If not refer, to Group 8W, Wiring Diagrams manual to test the circuits.

DIAGNOSIS AND TESTING (Continued)

HEATED MIRROR

(1) Check fuse 1 in the Junction Block and repair as necessary.

(2) Using a ohmmeter, check Pin 1 of the mirror motor harness connector for continuity to ground. If OK, go to Step 4. If not OK, repair as necessary. Refer to Group 8W, Wiring Diagrams for proper Pin location.

(3) Activate the rear window defogger switch, use a voltmeter and check Pin 3 for battery voltage.

(a) If OK, go to Step 5. If not OK, Step

(b) Check rear window defogger switch, refer to Group 8N, Electrically Heated Systems. If OK, go to Step . If not OK, repair as necessary.

(c) If no voltage repair wire as necessary. Refer to Group 8W, Wiring Diagrams.

(4) Remove mirror glass and check wires. If wires are OK, replace mirror glass. If not OK, repair as necessary or replace mirror.

MIRROR MOTOR

(1) Using a trim stick, remove power mirror switch from mounting position.

(2) Disconnect wire harness connector.

(3) Using two jumper wires, one connected to a 12 volt source, and the other connected to a good body ground. Jumpers are applied to the mating switch connector on the wire harness. Refer to the Mirror Test table and (Fig. 2) for appropriate mirror response.

(4) If test results are not obtained as shown in the (Fig. 2), check for open or shorted circuit, or replace mirror assembly as necessary.

MIRROR SWITCH

(1) Remove trim panel. Refer to Group 23, Body for Removal and Installation procedures.

(2) Disconnect wire harness connector from back of power mirror switch.

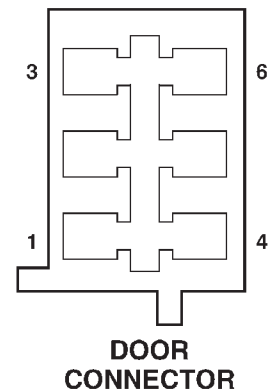
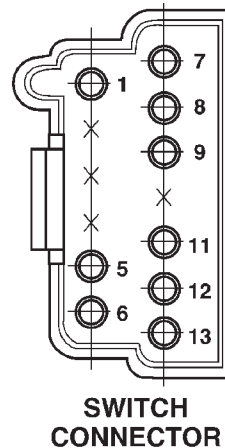
(3) Disengage lock tabs at both ends of switch and remove power mirror switch from door trim panel.

(4) Using an ohmmeter, test for continuity between the terminals of the switch (Fig. 3) as shown in the Mirror Switch Test table.

(5) If test results are not obtained as shown in the Mirror Switch Test table, replace the switch.

MIRROR TEST

MIRROR SWITCH CONNECTOR			
B (+)	B (-)	MIRROR REACTION	
		LEFT	RIGHT
PIN 12	PIN 6		UP
PIN 13	PIN 1	UP	
PIN 6	PIN 12		DOWN
PIN 1	PIN 13	DOWN	
PIN 6	PIN 7		RIGHT
PIN 1	PIN 8	RIGHT	
PIN 7	PIN 6		LEFT
PIN 8	PIN 1	LEFT	
DOOR CONNECTOR			
PIN 6	PIN 2	UP	
PIN 2	PIN 6	DOWN	
PIN 2	PIN 5	RIGHT	
PIN 5	PIN 2	LEFT	
PIN 1	PIN 3	HEATER	



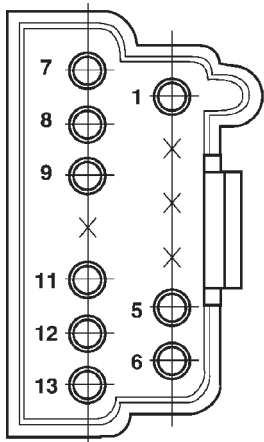
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Fig. 2 Connector Pin Call-Out

DIAGNOSIS AND TESTING (Continued)

MIRROR SWITCH TEST

SWITCH POSITION MOVE BUTTON	CONTINUITY BETWEEN TERMINALS
MIRROR IN "L" POSITION	
UP	PIN 11 TO 12 PIN 12 TO 13 PIN 9 TO 1
RIGHT	PIN 11 TO 1 PIN 9 TO 7 PIN 9 TO 8
DOWN	PIN 11 TO 1 PIN 9 TO 12 PIN 9 TO 13
LEFT	PIN 11 TO 7 PIN 11 TO 8 PIN 9 TO 1
MIRROR IN "R" POSITION	
UP	PIN 11 TO 12 PIN 11 TO 13 PIN 9 TO 2
RIGHT	PIN 11 TO 6 PIN 9 TO 7 PIN 9 TO 8
DOWN	PIN 11 TO 6 PIN 9 TO 12 PIN 9 TO 13
LEFT	PIN 11 TO 7 PIN 11 TO 8 PIN 9 TO 6



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Fig. 3 Mirror Switch Connector Pin Call-Out

REMOVAL AND INSTALLATION

MIRROR SWITCH

REMOVAL

- (1) Remove the door trim panel. Refer to Group 23, Body for Removal and Installation procedures.
- (2) Disconnect wire connector from back of power mirror switch.
- (3) Disengage lock tabs at both ends of switch and remove switch from door trim panel.

INSTALLATION

For installation, reverse the above procedures.

MIRROR SWITCH

REMOVAL

- (1) Using a trim stick, remove power mirror switch from mounting position.
- (2) Disconnect wire connector.
- (3) Remove switch.

INSTALLATION

For installation, reverse the above procedures.

