POWER MIRRORS

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GENERAL INFORMATION

INTRODUCTION

Electrically operated power mirrors are available on all car lines. The mirrors are controlled by a single switch assembly located on the driver's door trim panel. The push button rocker switch uses L (left) and R (right) for mirror selection and a button to push for the desired direction of mirror movement (Fig. 1).

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

Right Hand Drive (RHD) vehicles may be equipped with Power Fold Away Mirrors. The mirror is controlled the same way as the Left Hand Drive (LHD) vehicle. The RHD vehicle has an additional switch in the switch pod that controls the folding function of the mirror assembly (Fig. 2).

All vehicles are equipped with a Ignition-Off Draw Fuse, and they are disconnected when the vehicles are originally shipped from the factory. Disconnecting this fuse will help prevent the battery from discharge during storage. The fuse is located in Power Distribution Center (PDC) refer to the cover for proper location.

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

The RHD vehicle mirror circuitry is powered from the accessory feed circuit and protected by a 15 amp circuit breaker and power mirror relay. The relay provides for the switching of the mirror. The circuit breaker and mirror relay are located in the inner door panel wire harness.

NOTE: This group covers both Left-Hand Drive (LHD) and Right-Hand Drive (RHD) versions of this model. Whenever required and feasible, the RHD versions of affected vehicle components have been constructed as mirror-image of the LHD versions. While most of the illustrations used in this group represent only the LHD version, the diagnostic and service procedures outlined can generally be applied to either version. Exceptions to this rule have been clearly identified as LHD, RHD, or Export if a special illustration or procedure is required.

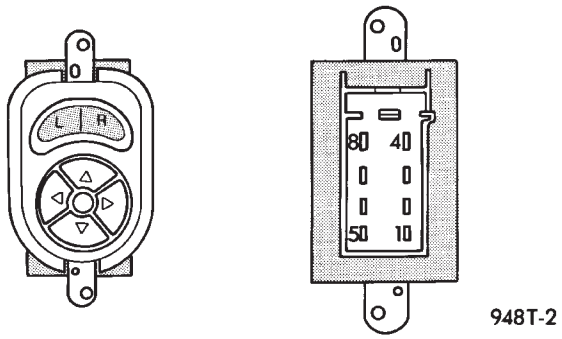


Fig. 1 Power Mirror Switch

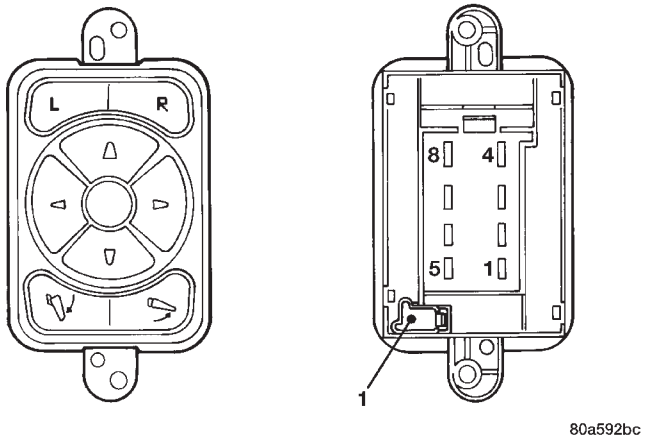


Fig. 2 Power Fold Away Mirror Switch

DIAGNOSIS AND TESTING

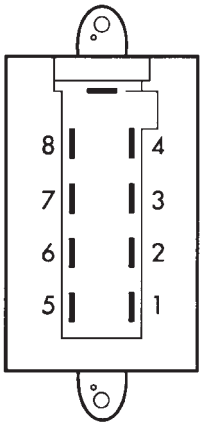
MIRROR SWITCH TEST

(1) Remove power mirror switch from mounting position.

(2) Disconnect wiring harness at switch connector.

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

(4) If test results are not obtained as shown in the (Fig. 3) or (Fig. 4), replace the switch.



MIRROR SWITCH CONTINUITY	
Mirror Selector Knob in "L" Position	
MOVE LEVER	CONTINUITY BETWEEN
▲	PINS 2 AND 8 PINS 1 AND 5
▶	PINS 2 AND 6 PINS 1 AND 7
▼	PINS 2 AND 5 PINS 1 AND 8
◀	PINS 2 AND 7 PINS 1 AND 6
Mirror Selector Knob in "R" Position	
MOVE LEVER	CONTINUITY BETWEEN
▲	PINS 2 AND 4 PINS 1 AND 5
▶	PINS 2 AND 6 PINS 1 AND 3
▼	PINS 2 AND 5 PINS 1 AND 4
◀	PINS 2 AND 3 PINS 1 AND 6

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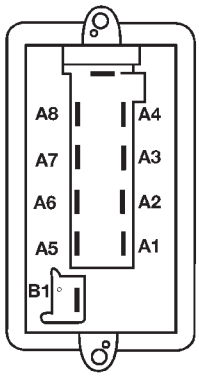
Fig. 3 Mirror Switch Test

MIRROR MOTOR

(1) Remove door trim panel, refer to Group 23 Front Door Trim.

(2) Remove switch mounting screws from back side of trim panel and remove switch.



MIRROR SWITCH CONTINUITY	
Mirror Selector Knob in "L" Position	
MOVE LEVER	CONTINUITY BETWEEN
▲	PINS A-2 AND A-8 PINS A-1 AND B-1 PINS A-1 AND A-5
▶	PINS A-2 AND A-6 PINS A-1 AND A-7
▼	PINS A-2 AND A-5 PINS A-1 AND A-8 PINS A-1 AND B-1
◀	PINS A-2 AND A-7 PINS A-1 AND A-6
Mirror Selector Knob in "R" Position	
MOVE LEVER	CONTINUITY BETWEEN
▲	PINS A-2 AND A-4 PINS A-1 AND B-1 PINS A-1 AND A-5
▶	PINS A-2 AND A 6 PINS A-1 AND A-3
▼	PINS A-2 AND A-5 PINS A-1 AND B-1 PINS A-1 AND A-4
◀	PINS A-1 AND A-6 PINS A-2 AND A-5
Mirror Folding Position	
OUT	PINS A- 1 AND A-5 PINS A- 2 AND B-1
IN	PINS A- 1 AND B-1 PINS A- 2 AND A-5

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Fig. 4 Power Fold Away Mirror Switch Test

DIAGNOSIS AND TESTING (Continued)

(3) Disconnect wire connector.

(4) Using two jumper wires, one connected to a 12 volt source, and 2 the other connected to a good body ground. Refer to the Mirror Test (Fig. 5) for appropriate mirror response. RHD vehicle with Power Fold Away Mirror refer to (Fig. 6)

(5) If test results are not obtained as shown in the (Fig. 5), check for open or shorted circuit (Fig. 7), or replace mirror assembly as necessary.

MIRROR TEST			
MIRROR SWITCH CONNECTOR			
		Mirror Reaction	
12 volt	Ground	Left	Right
PIN 4	PIN 5		UP
PIN 8	PIN 5	UP	
PIN 5	PIN 4		DOWN
PIN 5	PIN 8	DOWN	
PIN 6	PIN 3		RIGHT
PIN 6	PIN 7	RIGHT	
PIN 3	PIN 6		LEFT
PIN 7	PIN 6	LEFT	
DOOR CONNECTOR			
PIN 3	PIN 1	UP	
PIN 1	PIN 3	DOWN	
PIN 6	PIN 4	RIGHT	
PIN 4	PIN 6	LEFT	

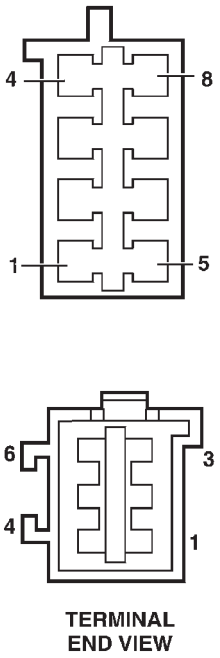

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Fig. 5 Mirror Test

MIRROR TEST			
MIRROR SWITCH AND RELAY CONNECTORS			
12 volts	Ground	Mirror Reaction	
Mirror Relay Removed		Left	Right
PIN A-4	PIN C-8		UP
PIN A-8	PIN C-8	UP	
PIN C-8	PIN A-4		DOWN
PIN C-8	PIN A-8	DOWN	
PIN A-6	PIN A-3		RIGHT
PIN A-6	PIN A-7	RIGHT	
PIN A-3	PIN A-6		LEFT
PIN A-7	PIN A-6	LEFT	
PIN C-8	PIN B-1	RETRACT (IN)	RETRACT (IN)
PIN B-1	PIN C-8	EXTEND (OUT)	EXTEND (OUT)
MIRROR RELAY INSTALLED			
PIN A-4	—		UP
PIN A-8	—	UP	
PIN A-5	PIN A-4		DOWN
PIN A-5	PIN A-8	DOWN	
PIN A-6	PIN A-3		RIGHT
PIN A-6	PIN A-7	RIGHT	
PIN A-3	PIN A-6		LEFT
PIN A-7	PIN A-6	LEFT	
PIN A-5	PIN B-1	RETRACT (IN)	RETRACT (IN)
PIN B-1	—	EXTEND (OUT)	EXTEND (OUT)
MIRROR CONNECTOR IN LEFT OR RIGHT DOOR			
PIN D-3	PIN D-1	UP	
PIN D-1	PIN D-3	DOWN	
PIN D-6	PIN D-4	RIGHT	
PIN D-4	PIN D-6	LEFT	
PIN D-5	PIN D-1	EXTEND (OUT)	
PIN D-1	PIN D-5	RETRACT (IN)	

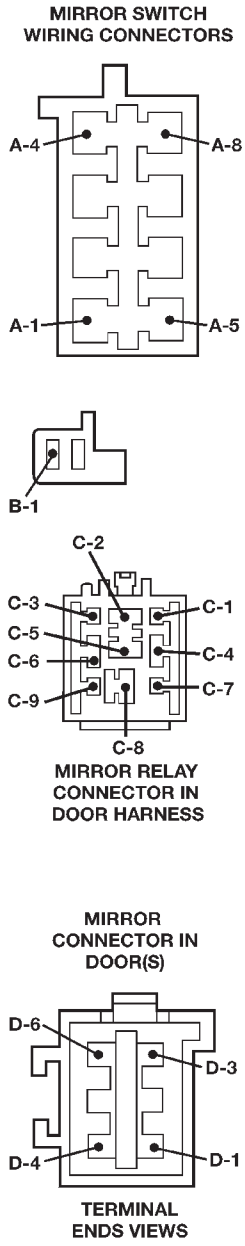

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Fig. 6 Power Fold Away Mirror Test

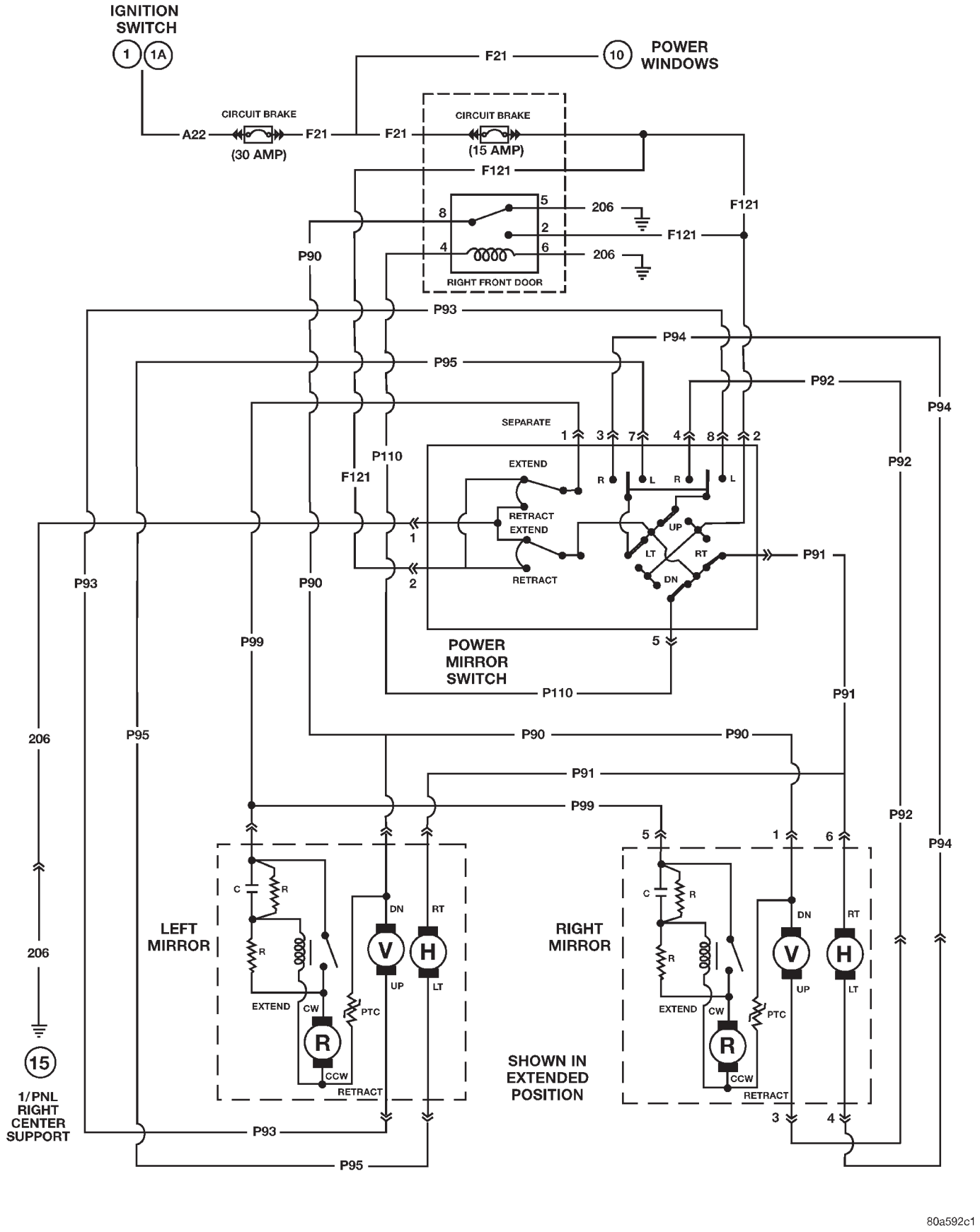

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Fig. 7 Power Fold Away Mirrors Wiring Schematic

REMOVAL AND INSTALLATION

INSIDE MIRROR/READING LAMPS ASSEMBLY

REMOVAL

(1) Disconnect wiring connector.
(2) Loosen mirror set screw (Fig. 8).
(3) Lift mirror from mounting button.

INSTALLATION

For installation, reverse the above procedure. Ensure the mirror is fully locked into place.

INSIDE MIRROR/READING LAMPS BULB/LENS

REMOVAL

(1) Using a small thin blade tool, pry at the center of the lens nearest the mirror to remove lens (Fig. 8).
(2) Remove cartridge lamp and replace if necessary.

INSTALLATION

Install lens by setting lens into position and applying pressure until it is locked into position.

MIRROR SWITCH

REMOVAL

(1) Remove door trim panel, refer to Group 23 Front Door Trim.
(2) Remove switch mounting screws from back side of trim panel and remove switch.
(3) Disconnect wire connector.

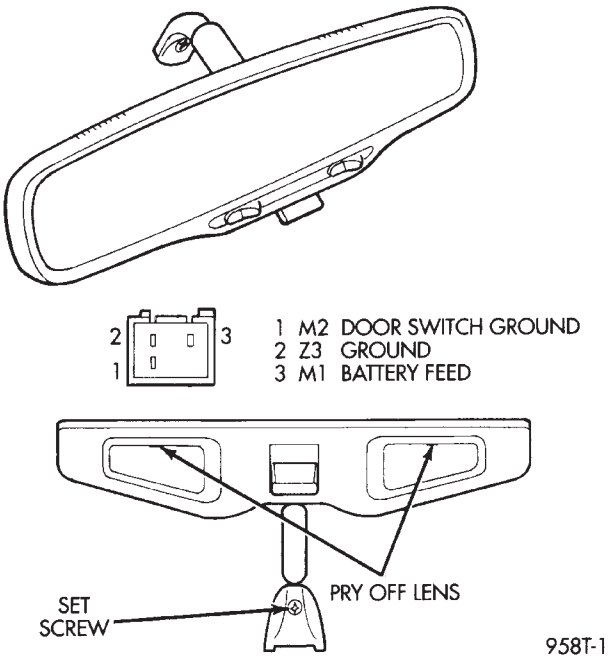

Fig. 8 Mirror/Reading Lamps

INSTALLATION

For installation, reverse the above procedures.

MIRROR ASSEMBLY

For door trim panel and mirror removal and installation, refer to Group 23 Body. Test operation of mirror before installing door trim panel.