

Mirrors

Specifications

Fastener Tightening Specifications

Application	Specification	
	Metric	English
Inside Rearview Mirror Fastener	2 N•m	18 lb in
Outside Rearview Mirror Inner Actuator Fastener	5 N•m	44 lb in
Outside Rearview Mirror Fastener	10 N•m	89 lb in

Schematic and Routing Diagrams

Wiring Diagram for Outside Rearview Mirror Switch (S52)

Legend:

- $\square$ L O C
- $\square$ D E S C
- $\updownarrow$

Switch Assembly (S52):

- Terminal 1: 3390 VTL-BU YE/BN
- Terminal 2: 3391 YE/BN
- Terminal 3: 3389 BN/BK
- Terminal 4: 3397 YE/VT
- Terminal 5: 3396 L-GN/BK
- Terminal 6: 3398 WH
- Terminal 7: 3397 YE/VT
- Terminal 8: 3398 WH
- Terminal 9: 3396 L-GN/BK

Relay Assembly (X500):

- Terminal 1: 3390 VTL-BU YE/BN
- Terminal 2: 3391 YE/BN
- Terminal 3: 3389 BN/BK
- Terminal 4: 3397 YE/VT
- Terminal 5: 3396 L-GN/BK
- Terminal 6: 3398 WH
- Terminal 7: 3397 YE/VT
- Terminal 8: 3398 WH
- Terminal 9: 3396 L-GN/BK

Motor and Glass Components:

- A9A Outside Rearview Mirror - Driver:** Motor (M), Glass (G), Driver (D). Wires: 3390 BK, 3391 BK, 3389 BK.
- A8B Outside Rearview Mirror - Passenger:** Motor (M), Glass (G), Driver (D). Wires: 3390 BK, 3391 BK, 3389 BK.
- E17D Outside Rearview Mirror - Driver:** Motor (M), Glass (G), Driver (D). Wires: 3390 BK, 3391 BK, 3389 BK.
- E17P Outside Rearview Mirror - Passenger:** Motor (M), Glass (G), Driver (D). Wires: 3390 BK, 3391 BK, 3389 BK.

Fuse Block (X50A):

- Fuse 1: F12UA 7.5A
- Fuse 2: F14UA 7.5A
- Fuse 3: F6UA 7.5A
- Fuse 4: F5UA 7.5A

Relay Assembly (X500):

- Relay 1: KR5 Defogger Relay
- Relay 2: KR5 Defogger Relay
- Relay 3: KR5 Defogger Relay
- Relay 4: KR5 Defogger Relay

Wiring Details:

- Wires are color-coded: BK (Black), WH (White), YE (Yellow), BN (Blue), GN (Green), VT (Violet), BU (Blue), L (Light), D (Dark), M (Medium), G (Glass), D (Driver), P (Passenger).
- Terminal numbers are indicated for each component.
- Wiring paths are shown with solid and dashed lines.

Diagnostic Information and Procedures

Symptoms - Mirrors

Note: The following steps must be completed before using the symptom tables.

1. Perform the *Diagnostic System Check - Vehicle* on page 6-66 before using the Symptom Tables in order to verify that all of the following are true:
 - There are no DTCs set.
 - The control modules can communicate via the serial data link.
2. Review the system operation in order to familiarize yourself with the system functions. Refer to *Outside Mirror Description and Operation* on page 4-236.

Visual/Physical Inspection

- Inspect for aftermarket devices which could affect the operation of the system. Refer to *Checking Aftermarket Accessories* on page 11-525.
- Inspect the easily accessible or visible system components for obvious damage or conditions which could cause the symptom.

Intermittent

Faulty electrical connections or wiring may be the cause of intermittent conditions. Refer to *Testing for Intermittent Conditions and Poor Connections* on page 11-531.

Symptom List

Refer to a symptom diagnostic procedure from the following list in order to diagnose the symptom:

- *Heated Mirrors Malfunction* on page 4-223
- *Power Mirror Malfunction* on page 4-225

Heated Mirrors Malfunction

Diagnostic Instructions

- Perform the *Diagnostic System Check - Vehicle* on page 6-66 prior to using this diagnostic procedure.
- Review *Strategy Based Diagnosis* on page 6-58 for an overview of the diagnostic approach.
- *Diagnostic Procedure Instructions* on page 6-59 provides an overview of each diagnostic category.

Diagnostic Fault Information

Circuit	Short to Ground	Open/High Resistance	Short to Voltage	Signal Performance
Left Heated Mirror Element Control	2	1	3	—
Driver Outside Rearview Mirror Ground	—	1	—	—
Right Heated Mirror Element Control	2	1	3	—
Passenger Outside Rearview Mirror Ground	—	1	—	—
1. Single Heated Mirror Inoperative 2. Both Heated Mirrors Inoperative 3. Heated Mirrors Always On				

Circuit/System Description

The rear defogger relay supplies voltage to the outside rearview mirror heater elements based on the current state of the rear window defogger. The relay supplies B+ through the driver/passenger mirror heating element control circuit when a request is seen.

Reference Information

Schematic Reference

Outside Rearview Mirror Schematics on page 4-222

Connector End View Reference

Component Connector End Views on page 11-269

Description and Operation

Outside Mirror Description and Operation on page 4-236

Electrical Information Reference

- *Circuit Testing* on page 11-526
- *Connector Repairs* on page 11-548
- *Testing for Intermittent Conditions and Poor Connections* on page 11-531
- *Wiring Repairs* on page 11-537

Scan Tool Reference

Control Module References on page 6-3 for scan tool information.

Circuit/System Verification

1. Engine running.
2. Verify the E18 Rear Defogger Grid turns ON and OFF when commanding the Rear Defogger On and Off with a scan tool.

⇒ **If the E18 Rear Defogger Grid does not turn ON or OFF**

Refer to *Rear Window Defogger Malfunction* on page 4-16.

⇓ **If the E18 Rear Defogger Grid turns ON and OFF**

3. Verify the mirror glass of the A9A Outside Rearview Mirror-Driver and the A9B Outside Rearview Mirror-Passenger become warm when commanding the Rear Defogger On with a scan tool.

⇒ **If the mirror glass of the A9A Outside Rearview Mirror-Driver and the A9B Outside Rearview Mirror-Passenger do not become warm**

Refer to *Circuit/System Testing*.

⇓ **If the mirror glass of the A9A Outside Rearview Mirror-Driver and the A9B Outside Rearview Mirror-Passenger become warm**

4. All OK.

Circuit/System Testing

1. Ignition OFF and all vehicle systems OFF, disconnect the harness connector at the appropriate A9 Outside Rearview Mirror. It may take up to 2 minutes for all vehicle systems to power down.
 2. Test for less than 10 Ω between the ground circuit terminal G and ground.
- ⇒ **If 10 Ω or greater**
- 2.1. Ignition OFF.
 - 2.2. Test for less than 2 Ω in the ground circuit end to end.
- ⇒ If 2 Ω or greater, repair the open/high resistance in the circuit.
- ⇒ If less than 2 Ω , repair the open/high resistance in the ground connection.

⇓ **If less than 10 Ω**

3. Engine Running, connect a test lamp between the control circuit terminal F and the ground circuit terminal G.

4. Verify the test lamp turns ON and OFF when commanding the Rear Defogger On and Off with a scan tool.

⇒ **If the test lamp is always OFF**

- 4.1. Ignition OFF, remove the test lamp, disconnect the harness connector at the X50A Fuse Block-Underhood.

- 4.2. Test for infinite resistance between the control circuit and ground.

⇒ If less than infinite resistance, repair the short to ground on the circuit.

⇓ If infinite resistance

- 4.3. Test for less than 2 Ω in the control circuit end to end.

⇒ If 2 Ω or greater, repair the open/high resistance in the circuit.

⇒ If less than 2 Ω , replace the A9 Outside Rearview Mirror.

⇓ **If the test lamp is always ON**

- 4.1. Ignition OFF, remove the test lamp, disconnect the harness connector at the X50A Fuse Block-Underhood, ignition ON.

- 4.2. Test for less than 1 V between the control circuit and ground.

⇒ If 1 V or greater, repair the short to voltage on the circuit.

⇒ If less than 1 V, replace the X50A Fuse Block-Underhood

⇓ **If the test lamp turns ON and OFF**

5. Test or replace the A9 Outside Rearview Mirror.

Repair Instructions

Perform the *Diagnostic Repair Verification* on page 6-92 after completing the repair.

Outside Rearview Mirror Glass Replacement on page 4-233

Front Compartment Fuse Block Replacement on page 11-609

Power Mirror Malfunction

Diagnostic Instructions

- Perform the *Diagnostic System Check - Vehicle* on page 6-66 prior to using this diagnostic procedure.
- Review *Strategy Based Diagnosis* on page 6-58 for an overview of the diagnostic approach.
- *Diagnostic Procedure Instructions* on page 6-59 provides an overview of each diagnostic category.

Diagnostic Fault Information

Circuit	Short to Ground	Open/High Resistance	Short to Voltage	Signal Performance
Outside Rearview Mirror Switch B+	1	1	—	—
Driver Mirror Motor Horizontal Control	1	2	2	—
Driver Mirror Motor Vertical Control	1	2	2	—
Passenger Mirror Motor Horizontal Control	1	3	3	—
Passenger Mirror Motor Vertical Control	1	3	3	—
Outside Rearview Mirror Switch Ground	—	1	—	—
1. Both Outside Power Mirrors Inoperative 2. Driver Outside Power Mirror Malfunction 3. Passenger Outside Power Mirror Malfunction				

Circuit/System Description

The outside rearview mirror switch controls the outside rearview mirrors based on the position of the mirror selector switch and which movement position is selected. The outside rearview mirror switch has four positions: up, down, left, and right. B+ is applied to the switch from the power mirror fuse and when a movement position switch is selected, voltage is sent to the commanded mirror via a mirror control circuit. The opposite mirror control circuit acts as a ground circuit for the bi-directional mirror motor. Ground is the applied through the switch.

Reference Information

Schematic Reference

Outside Rearview Mirror Schematics on page 4-222

Connector End View Reference

Component Connector End Views on page 11-269

Description and Operation

Outside Mirror Description and Operation on page 4-236

Electrical Information Reference

- *Circuit Testing* on page 11-526
- *Connector Repairs* on page 11-548
- *Testing for Intermittent Conditions and Poor Connections* on page 11-531
- *Wiring Repairs* on page 11-537

Circuit/System Verification

1. Verify the mirror glass of the A9A Outside Rearview Mirror-Driver and the A9B Outside Rearview Mirror-Passenger move UP, DOWN, LEFT and RIGHT with the S52 Outside Rearview Mirror Switch.
 - ⇒ **If both outside mirror glasses do not move**
Refer to Circuit/System Testing — Both Outside Rearview Mirrors Inoperative.
 - ⇒ **If the driver outside mirror glass does not move UP, DOWN, LEFT or RIGHT**
Refer to Circuit/System Testing — Driver Outside Mirror Movement Malfunction.
 - ⇒ **If the passenger outside mirror glass does not move UP, DOWN, LEFT or RIGHT**
Refer to Circuit/System Testing — Passenger Outside Mirror Movement Malfunction.
 - ⇓ **If the mirror glass of the A9A Outside Rearview Mirror-Driver and the A9B Outside Rearview Mirror-Passenger move UP, DOWN, LEFT and RIGHT**
2. All OK.

Circuit/System Testing

Both Outside Rearview Mirrors Inoperative

1. Ignition OFF and all vehicle systems OFF, disconnect the harness connector at the S52 Outside Rearview Mirror Switch. It may take up to 2 minutes for all vehicle systems to power down.
2. Test for less than 10 Ω between the ground circuit terminal 5 and ground.
 - ⇒ **If 10 Ω or greater**
 - 2.1. Ignition OFF.
 - 2.2. Test for less than 2 Ω in the ground circuit end to end.
 - ⇒ If 2 Ω or greater, repair the open/high resistance in the circuit.
 - ⇒ If less than 2 Ω , repair the open/high resistance in the ground connection.
 - ⇓ **If less than 10 Ω**
3. Verify a test lamp illuminates between the B+ circuit terminal 4 and ground.
 - ⇒ **If the test lamp does not illuminate and the circuit fuse is good**
 - 3.1. Ignition OFF.
 - 3.2. Test for less than 2 Ω in the B+ circuit end to end.
 - ⇒ If 2 Ω or greater, repair the open/high resistance in the circuit.
 - ⇒ If less than 2 Ω , verify the fuse is not open and there is voltage at the fuse.
 - ⇒ **If the test lamp does not illuminate and the circuit fuse is open**
 - 3.1. Ignition OFF.
 - 3.2. Test for infinite resistance between the B+ circuit and ground.
 - ⇒ If less than infinite resistance, repair the short to ground on the circuit.
 - ⇓ **If infinite resistance**
 - 3.3. Test for infinite resistance between each of the control circuit terminals listed below and ground:
 - Control circuit terminal 1
 - Control circuit terminal 2
 - Control circuit terminal 3
 - Control circuit terminal 7
 - Control circuit terminal 8
 - Control circuit terminal 9
 - ⇒ If less than infinite resistance, repair the short to ground on the circuit.
 - ⇒ If infinite resistance, replace the M77 Outside Rearview Mirror Motor.
 - ⇓ **If the test lamp illuminates**
4. Test or replace the S52 Outside Rearview Mirror Switch.

Driver Outside Mirror Movement Malfunction

1. Ignition OFF, disconnect the X501 inline harness connector at the A9A Outside Rearview Mirror-Driver. Ignition ON
2. Connect a test lamp between the control circuit terminal A and control circuit terminal B.
3. Verify the test lamp turns ON when commanding the UP and DOWN states with the S52 Outside Rearview Mirror Switch.
 - ⇒ **If the test lamp remains OFF during either of the commands**
 - 3.1. Ignition OFF, remove the test lamp, disconnect the harness connector at the S52 Outside Rearview Mirror Switch.
 - 3.2. Test for infinite resistance between each control circuit and ground.
 - ⇒ If less than infinite resistance, repair the short to ground on the circuit.
 - ⇓ **If infinite resistance**
 - 3.3. Test for less than 2 Ω in each control circuit end to end.
 - ⇒ If 2 Ω or greater, repair the open/high resistance in the circuit.
 - ⇒ If less than 2 Ω , test or replace the S52 Outside Rearview Mirror Switch.
 - ⇒ **If the test lamp is always ON**
 - 3.1. Ignition OFF, remove the test lamp, disconnect the harness connector at the S52 Outside Rearview Mirror Switch, ignition ON.
 - 3.2. Test for less than 1 V between each control circuit and ground.
 - ⇒ If 1 V or greater, repair the short to voltage on the circuit.
 - ⇒ If less than 1 V, test or replace the S52 Outside Rearview Mirror Switch
 - ⇓ **If the test lamp turns ON during each of the commands**
4. Connect a test lamp between the control circuit terminal A and control circuit terminal C.
5. Verify the test lamp turns ON when commanding the LEFT and RIGHT states with the S52 Outside Rearview Mirror Switch.
 - ⇒ **If the test lamp remains OFF during either of the commands**
 - 5.1. Ignition OFF, remove the test lamp, disconnect the harness connector at the S52 Outside Rearview Mirror Switch.
 - 5.2. Test for infinite resistance between each control circuit and ground.
 - ⇒ If less than infinite resistance, repair the short to ground on the circuit.
 - ⇓ **If infinite resistance**
 - 5.3. Test for less than 2 Ω in each control circuit end to end.
 - ⇒ If 2 Ω or greater, repair the open/high resistance in the circuit.

⇒ If less than 2 Ω , test or replace the S52 Outside Rearview Mirror Switch.

⇒ **If the test lamp is always ON**

5.1. Ignition OFF, remove the test lamp, disconnect the harness connector at the S52 Outside Rearview Mirror Switch, ignition ON.

5.2. Test for less than 1 V between each control circuit and ground.

⇒ If 1 V or greater, repair the short to voltage on the circuit.

⇒ If less than 1 V, test or replace the S52 Outside Rearview Mirror Switch

⇓ **If the test lamp turns ON during each of the commands**

6. Test or replace the M77D Outside Rearview Mirror Motor-Driver.

Passenger Outside Mirror Movement Malfunction

1. Ignition OFF, disconnect the X601 inline harness connector at the A9B Outside Rearview Mirror-Passenger. Ignition ON

2. Connect a test lamp between the control circuit terminal A and control circuit terminal B.

3. Verify the test lamp turns ON when commanding the UP and DOWN states with the S52 Outside Rearview Mirror Switch.

⇒ **If the test lamp remains OFF during either of the commands**

3.1. Ignition OFF, remove the test lamp, disconnect the harness connector at the S52 Outside Rearview Mirror Switch.

3.2. Test for infinite resistance between each control circuit and ground.

⇒ If less than infinite resistance, repair the short to ground on the circuit.

⇓ If infinite resistance

3.3. Test for less than 2 Ω in each control circuit end to end.

⇒ If 2 Ω or greater, repair the open/high resistance in the circuit.

⇒ If less than 2 Ω , test or replace the S52 Outside Rearview Mirror Switch.

⇒ **If the test lamp is always ON**

3.1. Ignition OFF, remove the test lamp, disconnect the harness connector at the S52 Outside Rearview Mirror Switch, ignition ON.

3.2. Test for less than 1 V between each control circuit and ground.

⇒ If 1 V or greater, repair the short to voltage on the circuit.

⇒ If less than 1 V, test or replace the S52 Outside Rearview Mirror Switch

⇓ **If the test lamp turns ON during each of the commands**

4. Connect a test lamp between the control circuit terminal A and control circuit terminal C.

5. Verify the test lamp turns ON when commanding the LEFT and RIGHT states with the S52 Outside Rearview Mirror Switch.

⇒ **If the test lamp remains OFF during either of the commands**

5.1. Ignition OFF, remove the test lamp, disconnect the harness connector at the S52 Outside Rearview Mirror Switch.

5.2. Test for infinite resistance between each control circuit and ground.

⇒ If less than infinite resistance, repair the short to ground on the circuit.

⇓ If infinite resistance

5.3. Test for less than 2 Ω in each control circuit end to end.

⇒ If 2 Ω or greater, repair the open/high resistance in the circuit.

⇒ If less than 2 Ω , test or replace the S52 Outside Rearview Mirror Switch.

⇒ **If the test lamp is always ON**

5.1. Ignition OFF, remove the test lamp, disconnect the harness connector at the S52 Outside Rearview Mirror Switch, ignition ON.

5.2. Test for less than 1 V between each control circuit and ground.

⇒ If 1 V or greater, repair the short to voltage on the circuit.

⇒ If less than 1 V, test or replace the S52 Outside Rearview Mirror Switch

⇓ **If the test lamp turns ON during each of the commands**

6. Test or replace the M77P Outside Rearview Mirror Motor-Passenger.

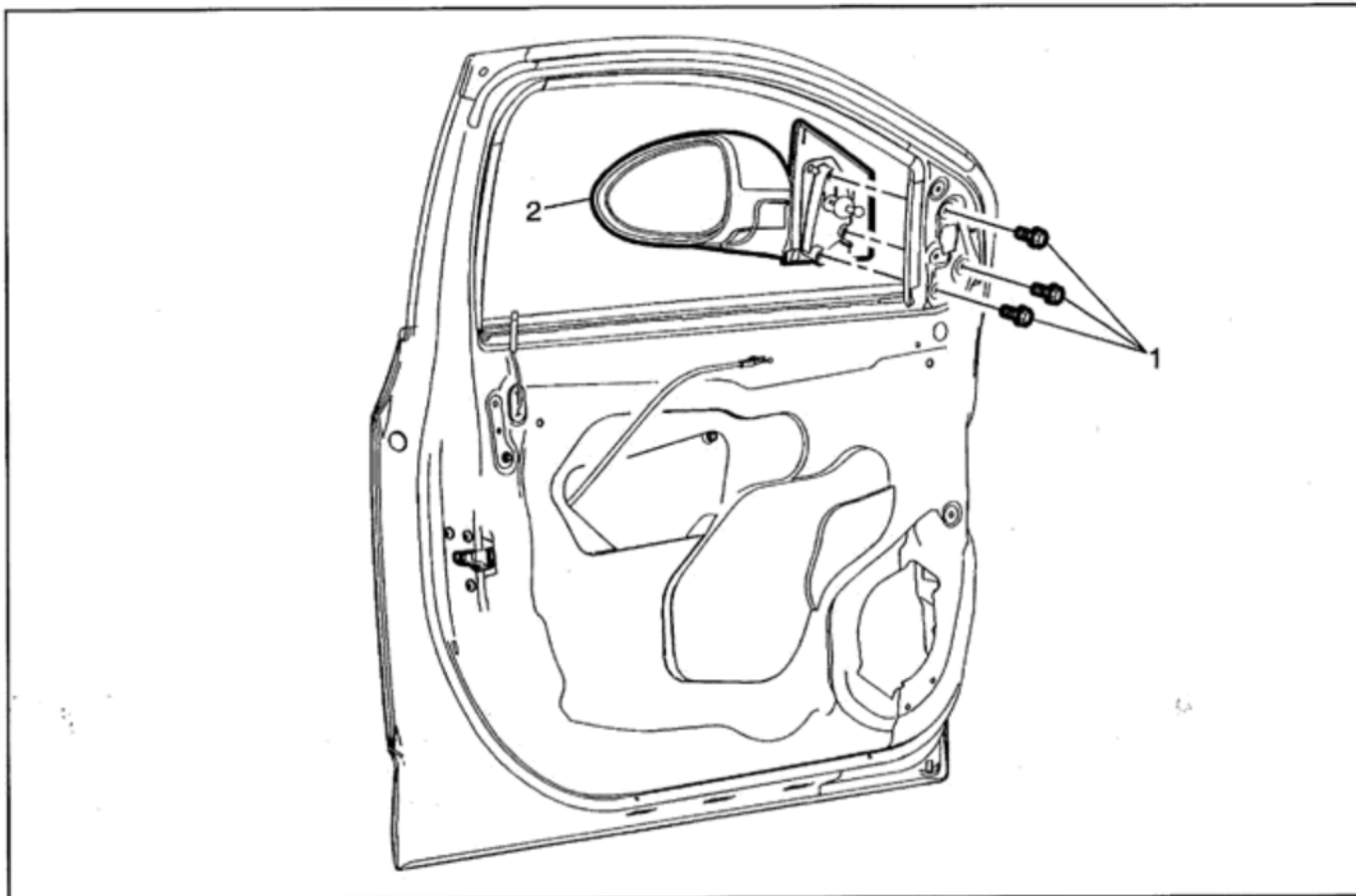
Repair Instructions

Perform the *Diagnostic Repair Verification* on page 6-92 after completing the repair.

- *Outside Rearview Mirror Remote Control Switch Replacement* on page 4-231
- *Outside Rearview Mirror Motor Replacement* on page 4-232

Repair Instructions

Outside Rearview Mirror Replacement (Manual)

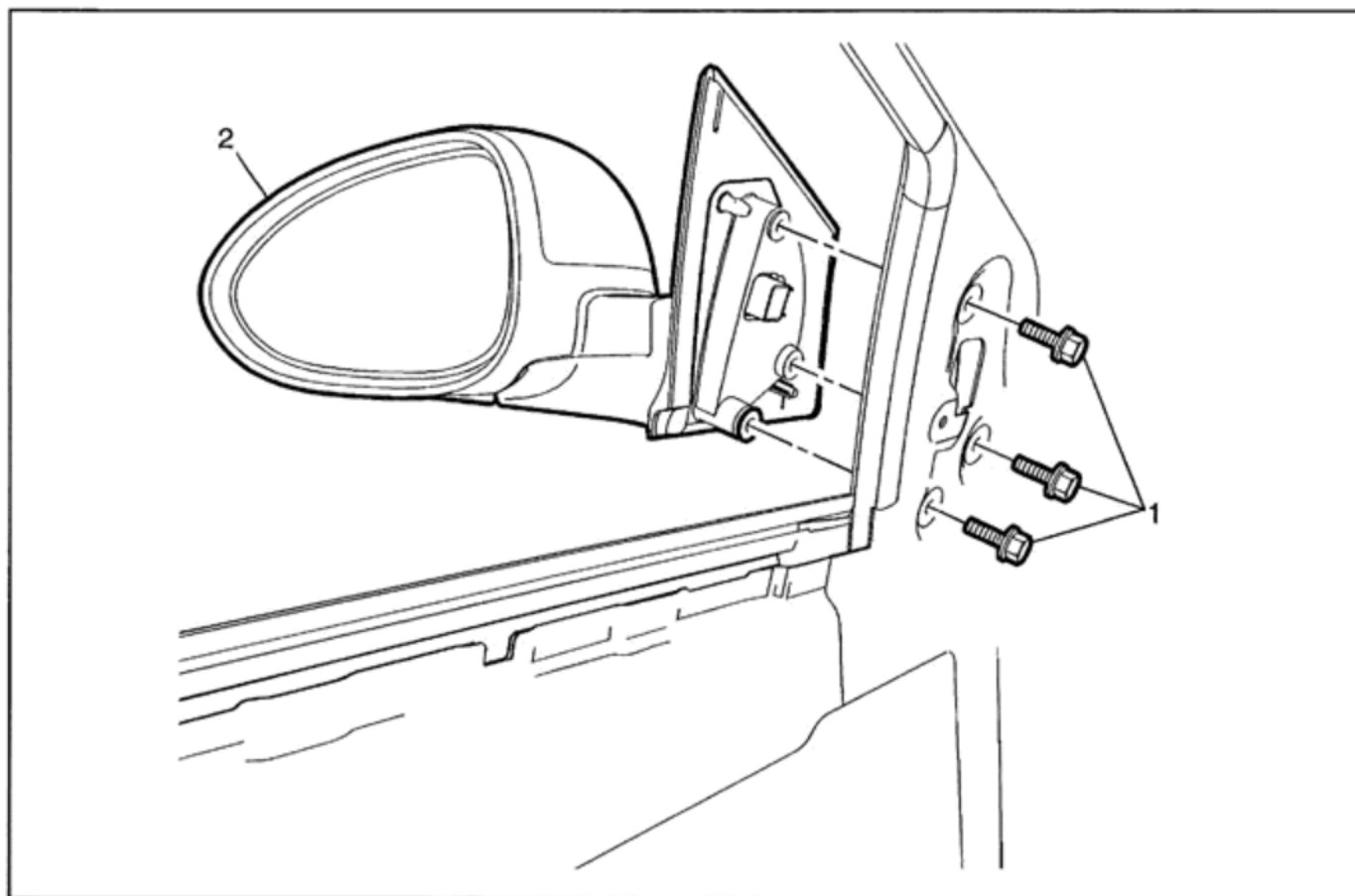


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Outside Rearview Mirror Replacement (Manual)

Callout	Component Name
Preliminary Procedures	
1. Remove the front side door upper front trim panel. Refer to <i>Front Side Door Upper Front Trim Panel Replacement</i> on page 2-66.	
2. Remove the outside rearview mirror bolt access hole on the front side door trim panel.	
1	Outside Rearview Mirror Fastener (Qty: 3) Caution: Refer to <i>Fastener Caution</i> on page 0-8. Tighten 10 N•m (89 lb in)
2	Outside Rearview Mirror Procedure 1. Transfer the outside rearview mirror knob. 2. Inspect the outside mirror for proper operation before installing the door trim panel.

Outside Rearview Mirror Replacement (Power)

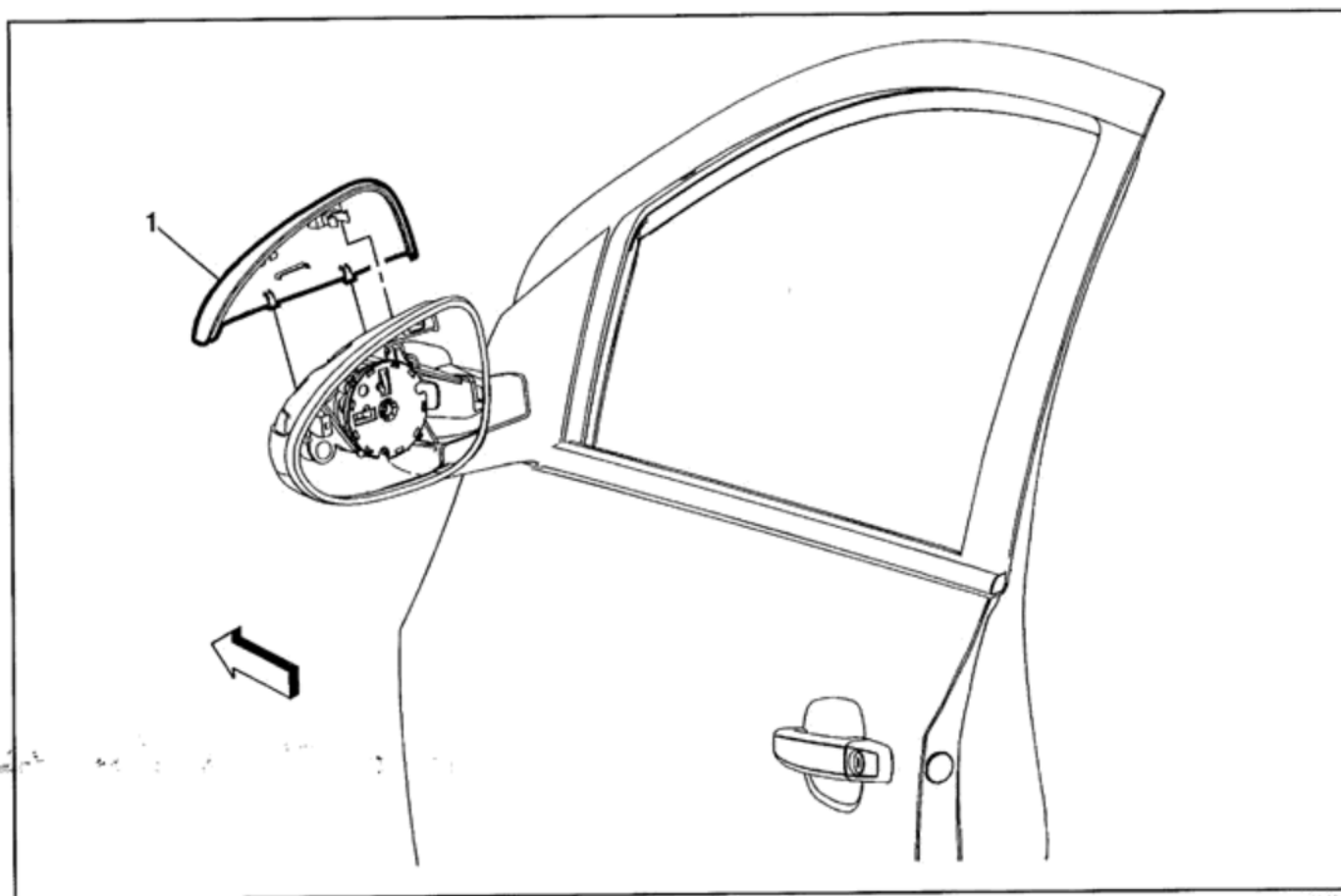


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Outside Rearview Mirror Replacement (Power)

Callout	Component Name
Preliminary Procedures	
1. Remove the front side door upper front trim panel. Refer to <i>Front Side Door Upper Front Trim Panel Replacement</i> on page 2-66. 2. Remove the outside rearview mirror bolt access hole on the front side door trim.	
1	Outside Rearview Mirror Fastener (Qty: 3) Caution: Refer to <i>Fastener Caution</i> on page 0-8. Procedure Disconnect the electrical connector. Tighten 10 N•m (89 lb in)
2	Outside Rearview Mirror Procedure Inspect the outside mirror for proper operation before installing the door trim panel.

Outside Rearview Mirror Housing Rear Cover Replacement

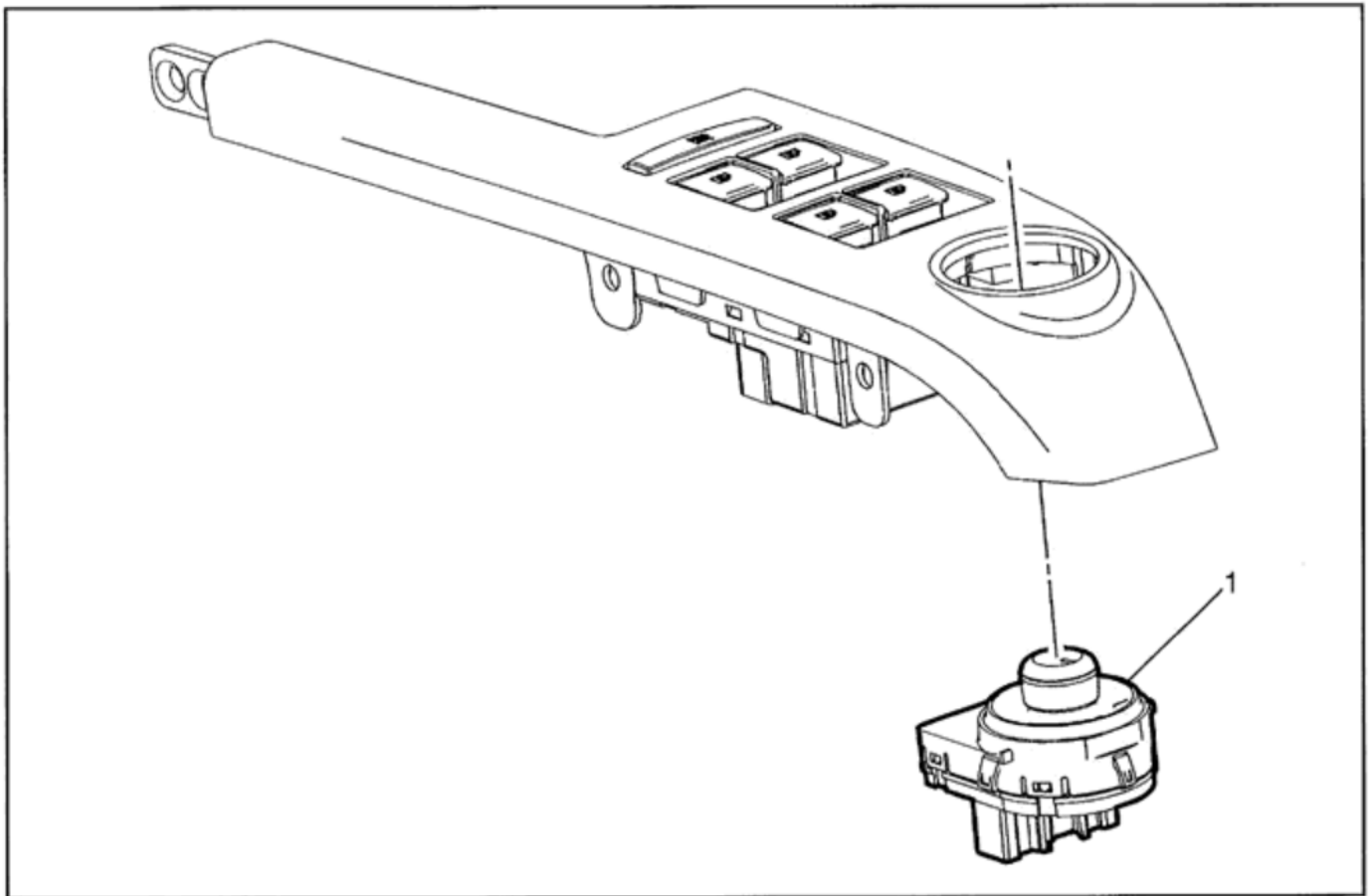


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Outside Rearview Mirror Housing Rear Cover Replacement

Callout	Component Name
Preliminary Procedures Remove the outside rearview mirror glass. Refer to <i>Outside Rearview Mirror Glass Replacement</i> on page 4-233.	
1	Outside Rearview Mirror Housing Cover Note: 1. After the mirror glass has been removed the retainers can be accessed to release. 2. Align the housing cover with the slots in the mirror housing, push downward locking retainers in place. 3. Inspect the outside mirror for proper operation.

Outside Rearview Mirror Remote Control Switch Replacement

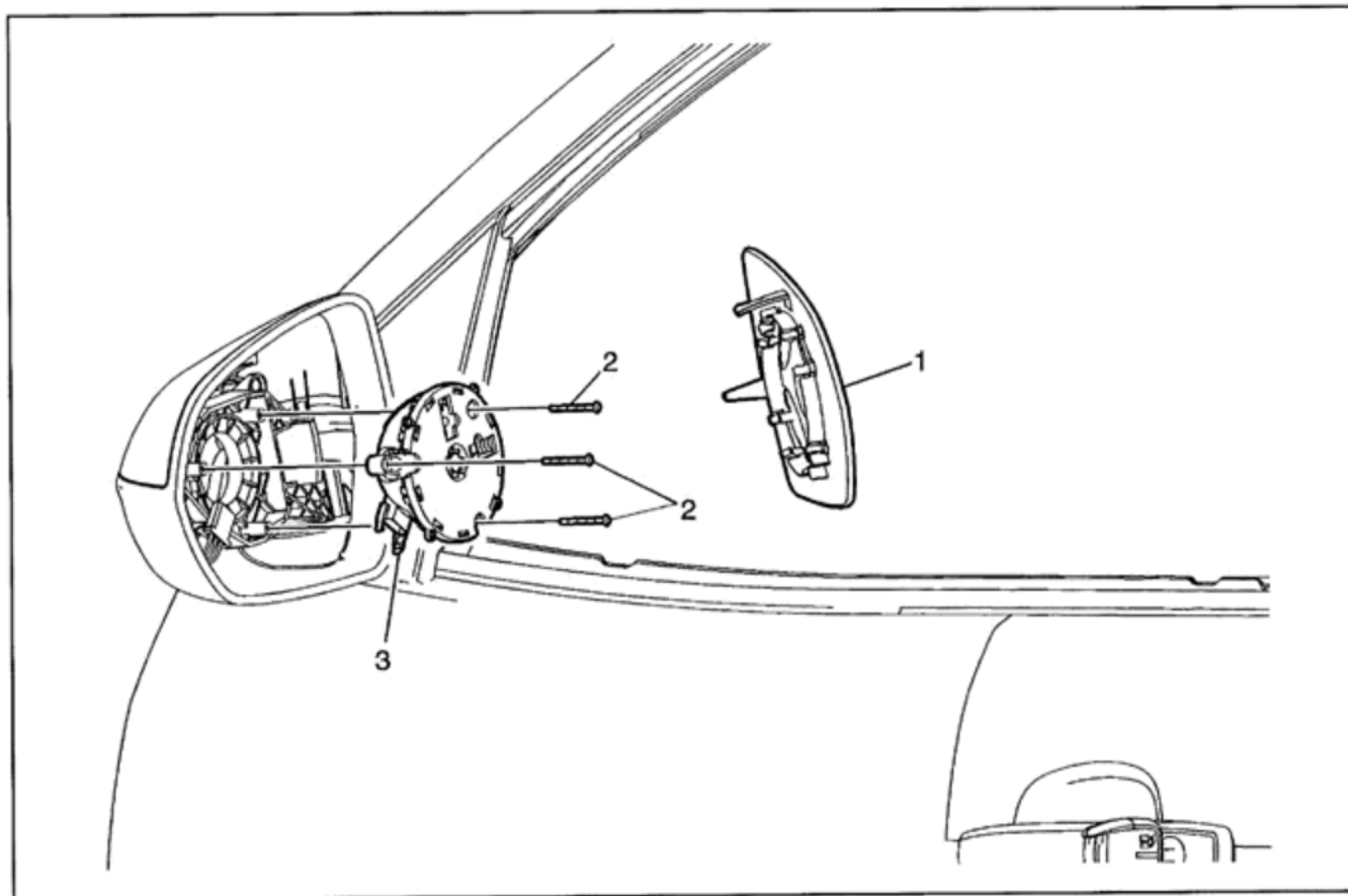


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Outside Rearview Mirror Remote Control Switch Replacement

Callout	Component Name
Preliminary Procedure Remove the front side door window switch bezel. Refer to <i>Front Side Door Window Switch Bezel Replacement (Right Side)</i> on page 2-64 or <i>Front Side Door Window Switch Bezel Replacement (Left Side)</i> on page 2-63.	
1	Outside Remote Control Rearview Mirror Switch Assembly Procedure 1. Disconnect the electrical connector. 2. Refer to <i>Control Module References</i> on page 6-3 for programming and set up procedures.

Outside Rearview Mirror Motor Replacement



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Outside Rearview Mirror Motor Replacement

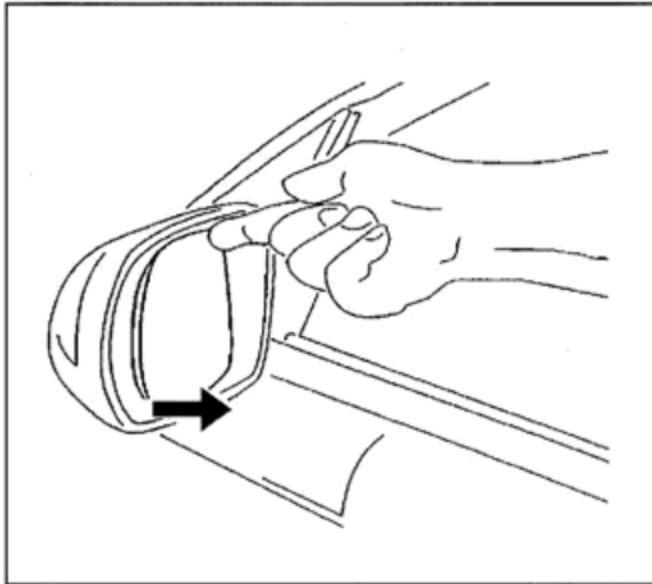
Callout	Component Name
1	Outside Rearview Mirror Glass Procedure Remove the outside rearview mirror glass. Refer to <i>Outside Rearview Mirror Glass Replacement</i> on page 4-233.
2	Outside Rearview Mirror Inner Actuator Fastener (Qty: 3) Caution: Refer to <i>Fastener Caution</i> on page 0-8. Procedure Disconnect the outside mirror inner actuator electrical connector. Tighten 5 N·m (44 lb in)
3	Outside Rearview Mirror Inner Actuator Note: Inspect the outside mirror for proper operation.

Outside Rearview Mirror Glass Replacement

Removal Procedure

Warning: Approved safety glasses and gloves should be worn when performing this procedure to reduce the chance of personal injury.

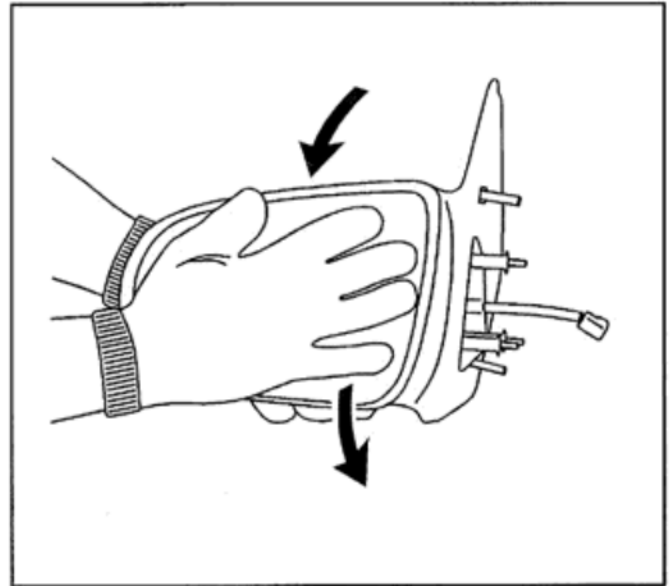
1. Place masking tape over the mirror glass.



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2. Carefully push the outside rearview mirror glass upward and into the right corner of the mirror housing, allowing access to the bottom edge.
3. Grasp the bottom edge of the mirror glass firmly, lift it up and pull rearward until the mirror glass releases the motor ring.

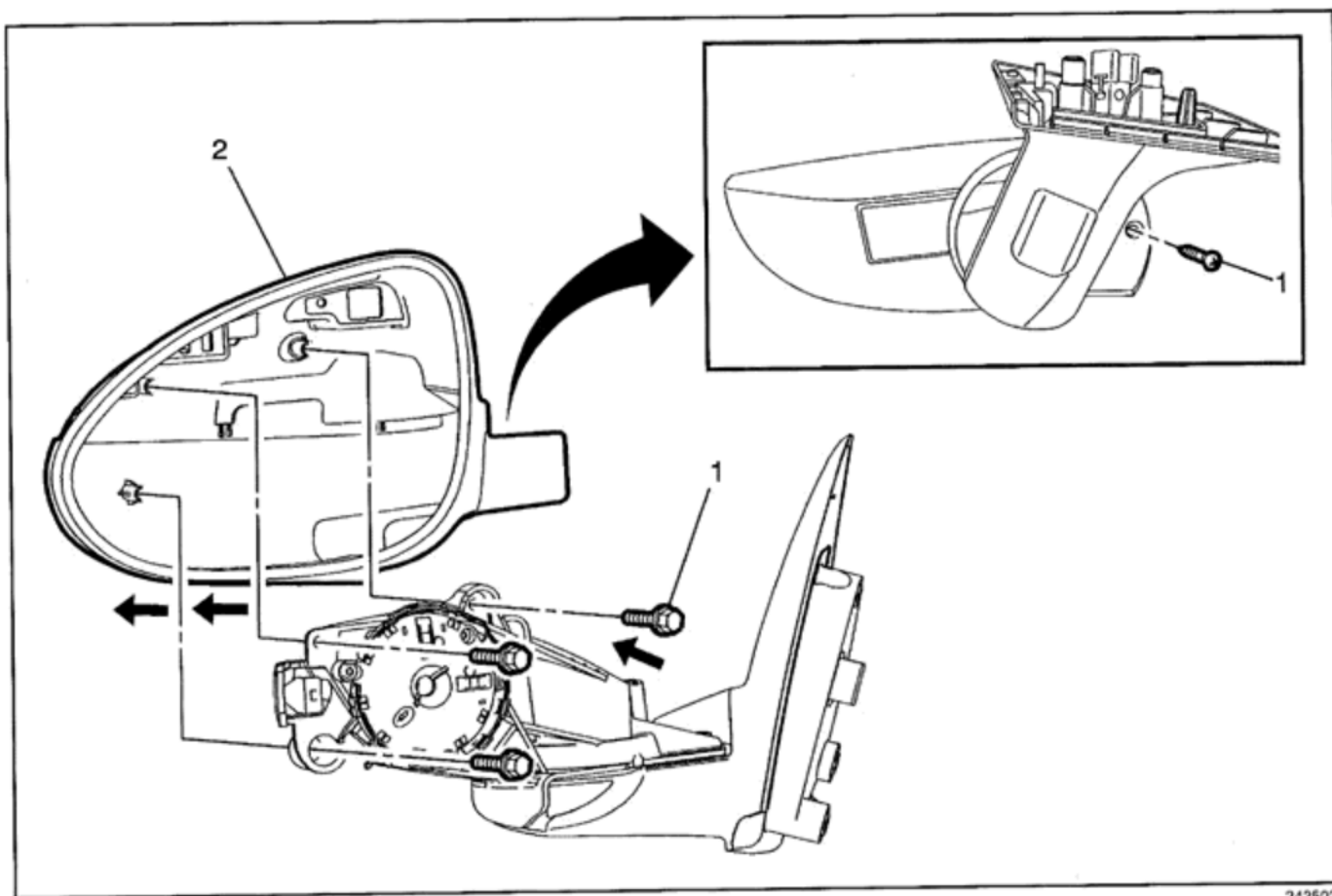
Installation Procedure



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1. Place the mirror glass on the lower motor ring retainers.
2. Place one hand on the back of the mirror housing, using the flat palm of the other hand press inward locking the mirror glass to the motor ring.
3. Remove the masking tape from the mirror glass.
4. Inspect the outside mirror for proper operation.

Outside Rearview Mirror Housing Replacement

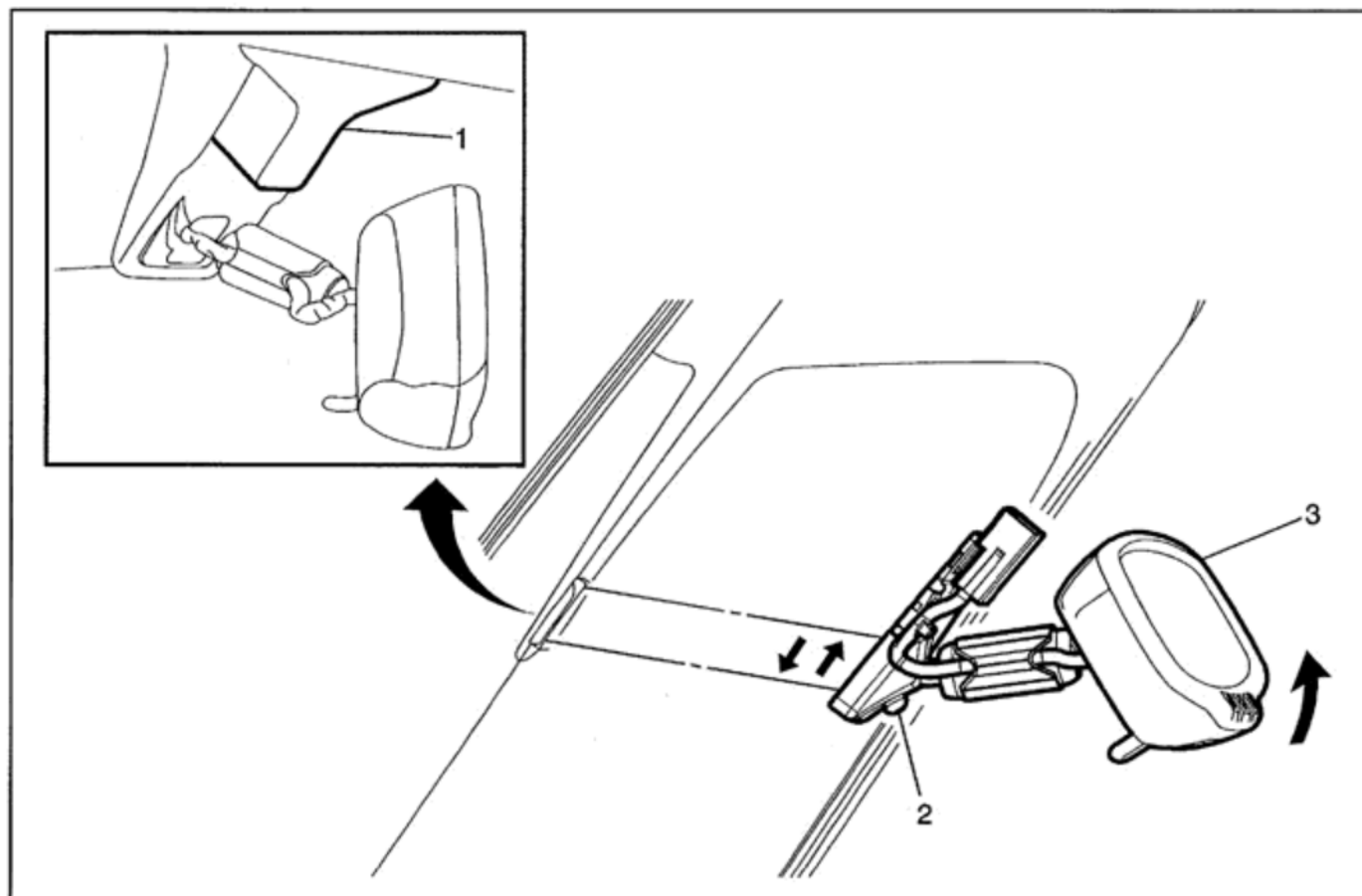


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Outside Rearview Mirror Housing Replacement

Callout	Component Name
Preliminary Procedures	
1. Remove the outside rearview housing cover. Refer to <i>Outside Rearview Mirror Housing Rear Cover Replacement</i> on page 4-230.	
2. Remove the outside rearview mirror motor. Refer to <i>Outside Rearview Mirror Motor Replacement</i> on page 4-232.	
1	Outside Rearview Mirror Housing Fastener (Qty: 4) Caution: Refer to <i>Fastener Caution</i> on page 0-8. Tighten 5 N•m (44 lb in)
2	Outside Rearview Mirror Housing Procedure Inspect the outside mirror for proper operation before installing the door trim panel.

Inside Rearview Mirror Replacement



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Inside Rearview Mirror Replacement

Callout	Component Name
1	Inside Rearview Mirror Cover Procedure 1. Remove the wire harness cover, sliding the cover upward releasing the cover from the support. 2. Disconnected the connector from the mirror base.
2	Inside Rearview Mirror Screw Caution: Refer to <i>Fastener Caution</i> on page 0-8. Procedure 1. Adjust the mirror to the full upward position, loosen the screw at the base in order to remove the mirror from the button. 2. Slide the mirror in an upward motion in order to remove. Tighten 2 N•m (18 lb in)
3	Inside Rearview Mirror

Description and Operation

Outside Mirror Description and Operation

Power Mirror System Components

The power mirror system consists of the following components:

- Outside rearview mirror switch
- Mirror selector switch
- Driver outside rearview mirror
- Passenger outside rearview mirror

Each of the outside rearview mirror contains two motors. The vertical motor operates the mirror in the up and down directions, and the horizontal motor operates the mirror in the left and right directions.

Power Mirror System Controls

The outside rearview mirror switch is a four position directional switch: Up, Down, Left and Right.

The mirror select switch is a three position switch: left, neutral/fold, and right.

Power Mirror System Operation

The outside rearview mirror switch receives battery voltage from the underhood fuse block. The power mirror switch also receives a constant ground.

The four positions of the direction switch have dual switch contacts. Each of the contacts are connected to opposing sides of the appropriate power mirror motors through the selector switch. The selector switch completes these circuits depending on the position of the selector switch, L or R.

If the selector switch is placed in the L position and the up switch is pressed, battery voltage will be supplied to the left outside rearview mirror vertical motor through the left mirror motor vertical control circuit and ground through the left mirror motor common control circuit. If the down switch is pressed, battery voltage will be supplied to the left outside rearview mirror vertical motor through the left mirror motor common control circuit and ground through the left mirror motor vertical control circuit.

The remainder of the mirror functions operate in the same manner as described above. Placing the power mirror switch in opposing positions, left/right or up/down, will reverse the polarity to the mirror motor, reversing the direction of movement.

Heated Mirrors (If Equipped)

The heated mirrors are controlled through the rear defog relay. Whenever the rear window defogger is turned on battery voltage is supplied to the mirror heater elements through the left and right mirror heater element control circuits.