

2008 ACCESSORIES & EQUIPMENT

Vehicle Access - LaCrosse

SPECIFICATIONS

FASTENER TIGHTENING SPECIFICATIONS

Application	Specification	
	Metric	English
Front Door Inside Door Handle Screw	3 N.m	27 lb in
Front Door Lock Screws	10 N.m	89 lb in
Front Door Lock Striker Screws	20 N.m	15 lb ft
Outside Door Handle Bolts	10 N.m	89 lb in
Rear Door Lock Screws	10 N.m	89 lb in
Rear Door Lock Striker Screw	20 N.m	15 lb ft
Window Regulator Bolts	10 N.m	89 lb in
Window Regulator Motor Bolts	6 N.m	53 lb in

SCHEMATIC AND ROUTING DIAGRAMS

DOOR LOCK/INDICATOR SCHEMATICS

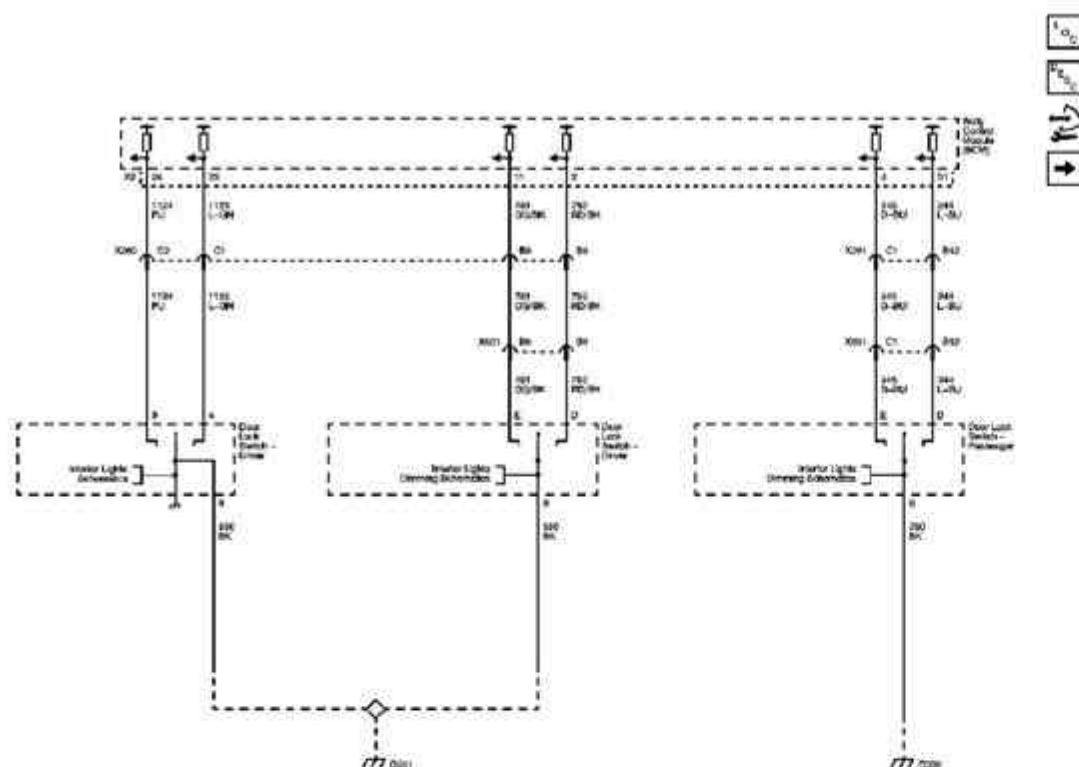


Fig. 1: Switches

Courtesy of GENERAL MOTORS CORP.

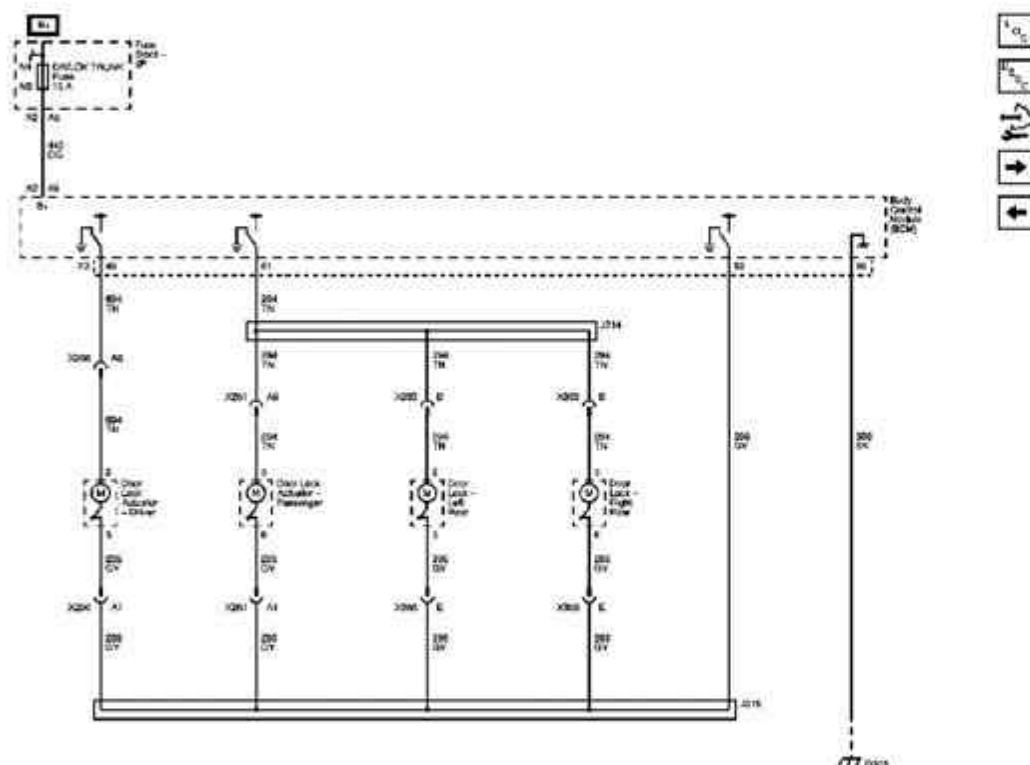


Fig. 2: Actuators

Courtesy of GENERAL MOTORS CORP.

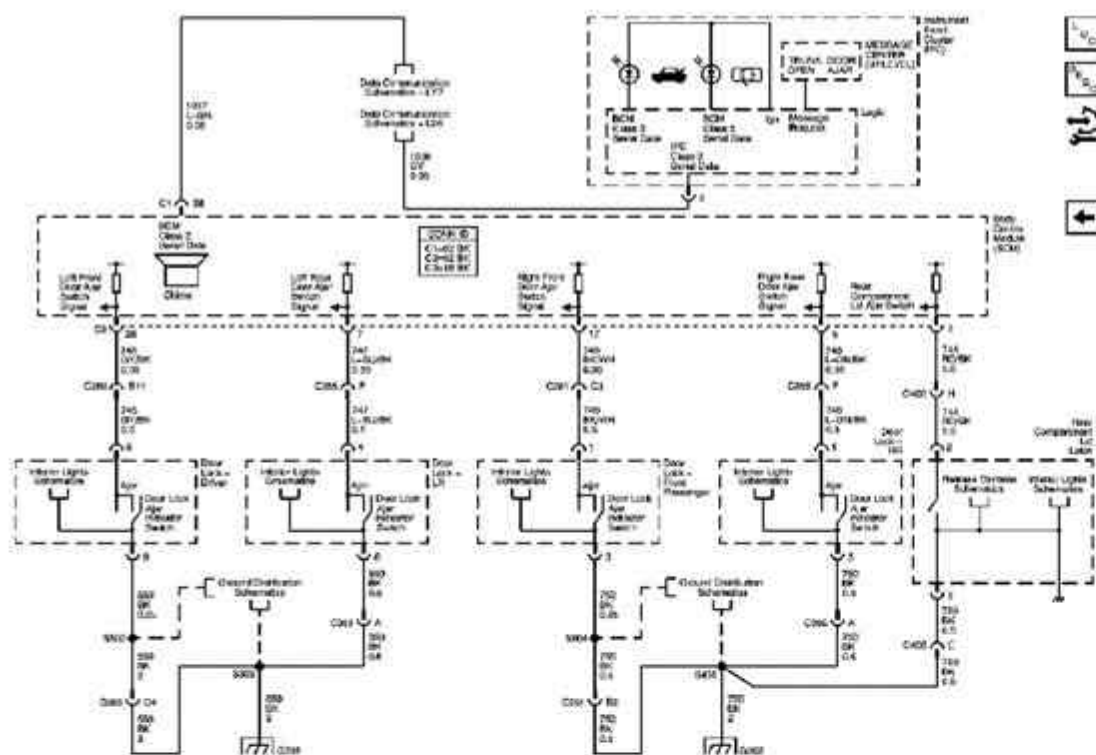


Fig. 3: Ajar Indicators

Courtesy of GENERAL MOTORS CORP.

RELEASE SYSTEMS SCHEMATICS

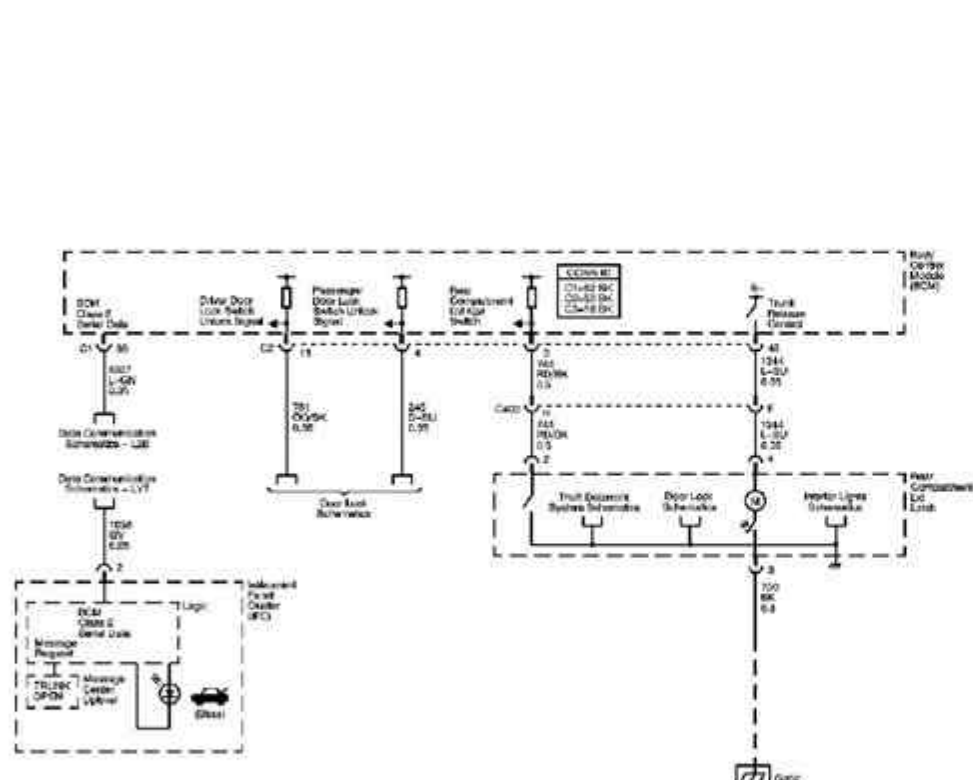


Fig. 4: Body Rear End Schematic
Courtesy of GENERAL MOTORS CORP.

DIAGNOSTIC INFORMATION AND PROCEDURES

DIAGNOSTIC STARTING POINT - VEHICLE ACCESS

Begin the system diagnosis with the **Diagnostic System Check - Vehicle**. The Diagnostic System Check will provide the following information:

- The identification of the control modules which command the system.
- The ability of the control modules to communicate through the serial data circuit.
- The identification of any stored diagnostic trouble codes (DTCs) and their status.

The use of the Diagnostic System Check will identify the correct procedure for diagnosing the system and where the procedure is located.

SYMPTOMS - VEHICLE ACCESS

Power Door Locks

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

1. Perform the **Diagnostic System Check - Vehicle**, 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 **Power Door Locks Description and Operation**.
 - Refer to **Luggage Compartment Description and Operation**.

Intermittent

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

Symptom List

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

- **Power Door Lock Key Cylinder Switches Inoperative**
- **Trunk Release Inoperative**
- **Power Door Locks Inoperative**

AUTOMATIC DOOR LOCKS INOPERATIVE

Diagnostic Instructions

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

Circuit/System Description

Personalization features may be set for the vehicle or the driver. Vehicle features do not change with each driver. Specific drivers are recognized by the vehicle through the keyless entry transmitters, the memory buttons, or the driver information center (DIC), and the personalization settings for that driver are recalled.

Reference Information

Schematic Reference

Door Lock/Indicator Schematics

Connector End View Reference

Component Connector End Views

Description and Operation

Power Door Locks Description and Operation

Electrical Information Reference

- **Circuit Testing**
- **Connector Repairs**
- **Testing for Intermittent Conditions and Poor Connections**
- **Wiring Repairs**

Scan Tool Reference

Control Module References for Scan Tool Information

Circuit/System Verification

Press the front and back of the door lock switch. All of the vehicle doors should lock and unlock.

- If one or more vehicle doors do not lock or unlock, refer to **Power Door Locks Inoperative**.

Circuit/System Testing

Follow the DIC vehicle personalization instructions outlined in the owners manual.

- If the personalization options cannot be set, replace the body control module (BCM).

Repair Procedures

Perform the **Diagnostic Repair Verification** after completing the diagnostic procedure.

Control Module References for BCM replacement, setup, and programming

DOOR AJAR INDICATOR MALFUNCTION**Diagnostic Instructions**

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

Diagnostic Fault Information

Circuit	Short to Ground	Open/High Resistance	Short to Voltage	Signal Performance
Left Front Door Ajar Switch Signal	1	2	2	-
Left Rear Door Ajar Switch Signal	1	2	2	-
Right Front Door Ajar Switch Signal	1	2	2	-
Right Rear Door Ajar Switch Signal	1	2	2	-
Driver Door Lock Ground	-	2	2	-
LR Door Lock Ground	-	2	2	-
Front Passenger Door Lock Ground	-	2	2	-
RR Door Lock Ground	-	2	2	-
1. Door Ajar Indicator Always Illuminated 2. Door Ajar Indicator Inoperative				

Circuit/System Description

The body control module (BCM) monitors each door ajar circuit to indicate the status of the door. When the respective door is opened, the door ajar signal circuit is switched to ground by the door lock ajar indicator switch, the BCM detects the drop in voltage in the circuit and then communicates this status to the instrument panel cluster (IPC) via a serial data message. The IPC, upon receipt of this serial data message, will illuminate the appropriate ajar message in the driver information center (DIC) and when the transaxle is shifted out of PARK, the DIC will also send a serial data message to the radio to activate the door ajar audible warning.

Reference Information**Schematic Reference****Door Lock/Indicator Schematics****Connector End View Reference****Component Connector End Views**

Description and Operation

Power Door Locks Description and Operation

Electrical Information Reference

- Circuit Testing
- Connector Repairs
- Testing for Intermittent Conditions and Poor Connections
- Wiring Repairs

Scan Tool Reference

Control Module References for scan tool information

Circuit/System Verification

Ignition ON, observe the appropriate scan tool Door Ajar Switch parameter while opening and closing the appropriate door. The reading should change between Closed and Ajar.

Circuit/System Testing

1. Ignition OFF, disconnect the harness connector at the appropriate door lock.
2. Test for less than 1.0 ohm between the appropriate ground circuit terminal listed below and ground.
 - Driver door lock terminal 8
 - Front passenger door lock terminal 3
 - LR door lock terminal 6
 - RR door lock terminal 3
 - If greater than the specified range, test the ground circuit for an open/high resistance.
3. Ignition ON, verify the scan tool Door Ajar Switch parameter is Closed.
 - If not the specified value, test the appropriate signal circuit terminal listed below for a short to ground.
 - Driver door lock terminal 6
 - Front passenger door lock terminal 1
 - LR door lock terminal 4
 - RR door lock terminal 1
 - If the circuit tests normal, replace the BCM.
4. Install a 3A fused jumper wire between the appropriate signal circuit terminal and the ground circuit terminal listed below.
 - Driver door lock terminal 6 and 8
 - Front passenger door lock terminal 1 and 3
 - LR door lock terminal 4 and 6
 - RR door lock terminal 1 and 3
5. Verify the scan tool Door Ajar Switch parameter is Ajar.
 - If not the specified value, test the appropriate signal circuit for a short to voltage or an open/high resistance. If the circuit tests normal, replace the BCM.
6. If all circuits test normal, test or replace the appropriate door lock.

Component Testing

1. Ignition OFF, disconnect the harness connector at the appropriate door lock.
2. Test for infinite resistance between the signal terminal and the ground terminal with the appropriate door lock in the open position listed below.
 - Driver door lock terminal 6 and 8
 - Front passenger door lock terminal 1 and 3
 - LR door lock terminal 4 and 6
 - RR door lock terminal 1 and 3
 - If not the specified value, replace the appropriate door lock.
3. Test for less than 2.0 ohms between the signal terminal and the ground terminal with the appropriate door lock in the closed position listed below.
 - Driver door lock terminal 6 and 8
 - Front passenger door lock terminal 1 and 3
 - LR door lock terminal 4 and 6
 - RR door lock terminal 1 and 3
 - If greater than the specified range, replace the appropriate door lock.

Repair Procedures

Perform the **Diagnostic Repair Verification** after completing the diagnostic procedure.

- **Front Side Door Lock Replacement**
- **Rear Door Lock Replacement**
- **Control Module References** for BCM replacement, setup, and programming

POWER DOOR LOCKS INOPERATIVE

Diagnostic Instructions

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

Diagnostic Fault Information

Circuit	Short to Ground	Open/High Resistance	Short to Voltage	Signal Performance
BCM B+	1, 2	1, 2	-	-
Driver Door Lock Switch Unlock Signal	1, 2	1, 2	1, 2	-
Driver Door Lock Switch Lock Signal	1, 2	2	2	-
Passenger Door Lock Switch Unlock Signal	1, 2	2	2	-
Passenger Door Lock Switch Lock Signal	1, 2	2	2	-
Driver Door Lock Actuator Unlock Control	1	1	1	-
Door Lock Actuator Unlock Control	1	1	1	-
Door Lock Actuator Lock Control	1	1	1	-
Door Lock Switch Ground	-	2	2	-
BCM Ground	-	1, 2	1, 2	-

1. Door Lock Malfunction
2. Door Lock Switch Malfunction

Circuit/System Description

When the body control module (BCM) detects a transition of either of the door lock switches to the LOCK position, it switches the door lock actuator lock control circuit to voltage. Since the door lock actuator lock control circuit is at ground potential within the BCM, the door lock actuators transitions to the LOCK position and when the BCM detects a transition of either of the door lock switches to the UNLOCK position, it switches the door lock actuator unlock control circuit to voltage. Since the door lock actuator unlock control circuit is at ground potential within the BCM, the door lock actuators transitions to the UNLOCK position.

The driver door lock actuator unlock control circuit is a dedicated control circuit used only for the driver door lock actuator motor. This is done so that the driver door may be unlocked by itself using a keyless entry transmitter or an automatic door unlock function, if programmed.

Reference Information

Schematic Reference

Door Lock/Indicator Schematics

Connector End View Reference

Component Connector End Views

Description and Operation

Power Door Locks Description and Operation

Electrical Information Reference

- Circuit Testing
- Connector Repairs
- Testing for Intermittent Conditions and Poor Connections
- Wiring Repairs

Scan Tool Reference

Control Module References for scan tool information

Circuit/System Verification

1. Ignition ON, observe the scan tool RF Door Lock Switch and RF Door Unlock Switch parameters while using the passenger door lock switch. The reading should change between Active and Inactive.
 - If the reading does not change, refer to Passenger Door Lock Switch Malfunction in Circuit/System Testing.
2. Command all doors LOCK and UNLOCK by using the driver door lock switch. All doors should lock and unlock.
 - If the doors do not LOCK/UNLOCK refer to Driver Door Lock Switch Malfunction in Circuit/System Testing.
3. Command the Driver Door Unlock ON and OFF with a scan tool. The driver door should unlock.
 - If the driver door does not unlock, refer to Driver Door Lock Malfunction in Circuit/System Testing.

4. Command the Unlock All Doors ON and OFF with a scan tool. All doors should unlock.
 - If one or more vehicle doors do not unlock, refer to Door Lock Malfunction in **Circuit/System Testing**.
5. Command the Lock All Doors ON and OFF with a scan tool. All doors should lock.
 - If one or more vehicle doors do not lock, refer to Door Lock Malfunction in **Circuit/System Testing**.

Circuit/System Testing

Passenger Door Lock Switch Malfunction

1. Ignition OFF, disconnect the harness connector at the front passenger door lock switch.
2. Ignition OFF, test for less than 1 ohm between the ground circuit terminal B and ground.
 - If greater than the specified range, test the ground circuit for an open/high resistance.
3. Ignition ON, verify the scan tool RF Door Lock Switch parameter is Inactive.
 - If not the specified value, test the signal circuit terminal D for a short to ground. If the circuit tests normal, replace the BCM.
4. Verify the scan tool RF Door Unlock Switch parameter is Inactive.
 - If not the specified value, test the signal circuit terminal E for a short to ground. If the circuit tests normal, replace the BCM.
5. Install a 3-amp fused jumper wire between the signal circuit terminal D and ground. Verify the scan tool RF Door Lock Switch parameter is Active.
 - If not the specified value, test the signal circuit for a short to voltage or an open/high resistance. If the circuit tests normal, replace the BCM.
6. Install a 3-amp fused jumper wire between the signal circuit terminal E and ground. Verify the scan tool RF Door Unlock Switch parameter is Active.
 - If not the specified value, test the signal circuit for a short to voltage or an open/high resistance. If the circuit tests normal, replace the BCM.
7. If all circuits test normal, test or replace the passenger door lock switch.

Driver Door Lock Switch Malfunction

1. Ignition OFF, disconnect the harness connector at the front driver door lock switch.
2. Ignition OFF, test for less than 1 ohm between the ground circuit terminal B and ground.
 - If greater than the specified range, test the ground circuit for an open/high resistance.
3. Ignition ON, verify the scan tool All Door Lock Motors parameter is Off.
 - If not the specified value, test the signal circuit terminal D for a short to ground. If the circuit tests normal, replace the BCM.
4. Verify the scan tool Passenger Door Unlock Motors parameter is Off.
 - If not the specified value, test the signal circuit terminal E for a short to ground. If the circuit tests normal, replace the BCM.
5. Install a 3-amp fused jumper wire between the signal circuit terminal D and ground. Verify the scan tool All Door Lock Motors parameter is On.
 - If not the specified value, test the signal circuit for a short to voltage or an open/high resistance. If the circuit tests normal, replace the BCM.
6. Install a 3-amp fused jumper wire between the signal circuit terminal E and ground. Verify the scan tool Passenger Door Unlock Motors parameter is On.
 - If not the specified value, test the signal circuit for a short to voltage or an open/high resistance. If the circuit tests normal, replace the BCM.

7. If all circuits test normal, test or replace the driver door lock switch.

Driver Door Lock Malfunction

1. Ignition OFF, disconnect the harness connector at the driver door lock actuator.
2. Ignition ON, connect a test lamp between control circuit terminal 3 and control circuit terminal 2.
3. Command the driver door to LOCK and UNLOCK using a scan tool. The test lamp should illuminate when changing between the commanded states.
 - If the test lamp remains OFF during either of the commands, test for a short to ground or an open/high resistance on either control circuit. If the circuits test normal, replace the BCM.
4. If all circuits test normal, test or replace the driver door lock.

Door Lock Malfunction

1. Ignition OFF, disconnect the X2 harness connector at the BCM.
2. Ignition OFF, test for less than 1 ohm between the ground circuit terminal 50 and ground.
 - If greater than the specified range, test the ground circuit for an open/high resistance.
3. Ignition ON, verify a test lamp illuminates between the B+ circuit terminal 49 and ground.
 - If the test lamp does not illuminate, test the B+ circuit for a short to ground or open/high resistance.
4. Ignition OFF, connect the BCM and disconnect the harness connector at the appropriate passenger door lock.
5. Ignition ON, connect a test lamp between the control circuit terminals of the appropriate door lock listed below.
 - Front passenger door lock terminals 5 and 6
 - LR passenger door lock terminals 2 and 3
 - RR passenger door lock terminals 5 and 6
6. Command all doors to LOCK and UNLOCK using a scan tool. The test lamp should illuminate when changing between the commanded states.
 - If the test lamp remains OFF during either of the commands, test for a short to ground or an open/high resistance on either control circuit. If the circuits test normal, replace the BCM.
7. If all circuits test normal, test or replace the appropriate passenger door lock.

Component Testing

Door Lock Switch

1. Ignition OFF, disconnect the harness connector at the appropriate door lock switch.
2. Test for infinite resistance between the signal terminal E and D and the ground terminal B with the switch in the open position.
 - If not the specified value, replace the appropriate door lock switch.
3. Test for less than 2.0 ohms between the signal terminal E and the ground terminal B with the switch in the UNLOCK position.
 - If greater or less than the specified range, replace the appropriate door lock switch.
4. Test for less than 2.0 ohms between the signal terminal D and the ground terminal B with the switch in the LOCK position.
 - If greater than the specified range, replace the appropriate door lock switch.

Door Lock

1. Install a 15-amp fused jumper wire between the lock control terminal and 12 volts. Momentarily install a

jumper wire between the unlock control terminal and ground. The appropriate door lock should perform the LOCK/ UNLOCK function.

- o If the function does not perform as specified, replace the appropriate door lock.
- 2. Reverse the jumper wires; the appropriate door lock should perform the UNLOCK/LOCK function.
- 3. If the function does not perform as specified, replace the appropriate door lock.

Repair Procedures

Perform the **Diagnostic Repair Verification** after completing the diagnostic procedure.

- **Rear Door Lock Replacement**
- **Front Side Door Lock Replacement**
- **Control Module References** for BCM replacement, setup, and programming

POWER DOOR LOCK KEY CYLINDER SWITCHES INOPERATIVE

Diagnostic Instructions

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

Diagnostic Fault Information

Circuit	Short to Ground	Open/High Resistance	Short to Voltage	Signal Performance
Door Lock Key Switch Unlock Signal	1	1	1	-
Door Lock Key Switch Lock Signal	1	1	1	-
Driver Door Lock Ground	-	1	1	-
1. Key Cylinder Switch Malfunction				

Circuit/System Description

The key cylinder lock/unlock feature will unlock or lock all of the doors when the body control module (BCM) receives a Door Lock Key Switch Unlock or Lock signal for greater than 1 second and will unlock or lock all of the doors.

Reference Information

Schematic Reference

Door Lock/Indicator Schematics

Connector End View Reference

Component Connector End Views

Description and Operation

Power Door Locks Description and Operation

Electrical Information Reference

- **Circuit Testing**
- **Connector Repairs**
- **Testing for Intermittent Conditions and Poor Connections**
- **Wiring Repairs**

Scan Tool Reference

Control Module References for scan tool information

Circuit/System Verification

1. Ignition ON, observe the function of the door locks while performing the LOCK and UNLOCK command using a scan tool, all doors should the LOCK and UNLOCK.
 - o If any door fails to LOCK or UNLOCK, refer to **Power Door Locks Inoperative**.
2. Observe the scan tool LF Key Cylinder Lock Switch parameters while the turning and holding the key in the driver door lock cylinder to the left and then to the right, reading should change from Idle to Lock and Unlock.

Circuit/System Testing

1. Ignition OFF, disconnect the harness connector at the driver door lock.
2. Ignition OFF, test for less than 1.0 ohm between the ground circuit terminal 8 and ground.
 - o If greater than the specified range, test the ground circuit for an open/high resistance.
3. Ignition ON, verify the scan tool LF Key Cylinder Lock Switch parameter is Idle.
 - o If not the specified value, test the signal circuit terminal 9 or signal circuit terminal 4 for a short to ground. If the circuits test normal, replace the BCM.
4. Install a 3-amp fused jumper wire between the signal circuit terminal 4 and ground, verify the scan tool LF Key Cylinder Lock Switch parameter is Lock.
 - o If not the specified value, test the signal circuit for a short to voltage or an open/high resistance. If the circuit tests normal, replace the BCM.
5. Install a 3-amp fused jumper wire between the signal circuit terminal 9 and ground, verify the scan tool LF Key Cylinder Lock Switch parameter is Unlock.
 - o If not the specified value, test the signal circuit for a short to voltage or an open/high resistance. If the circuit tests normal, replace the BCM.
6. If all circuits tests normal, test or replace the driver door lock.

Component Testing

1. Ignition OFF, disconnect the harness connector at the driver door lock.
2. Test for infinite resistance between the signal terminal 9 and the ground terminal 8 with the switch in the Idle position.
 - o If not the specified value, replace the driver door lock.
3. Test for infinite resistance between the signal terminal 4 and the ground terminal 8 with the switch in the Idle position.
 - o If not the specified value, replace the driver door lock.
4. Test for less than 2.0 ohms between the signal terminal 9 and the ground terminal 8 with the switch in the Unlock position.
 - o If greater than the specified range, replace the driver door lock.
5. Test for less than 2.0 ohms between the signal terminal 4 and the ground terminal 8 with the switch in the Lock position.

- If greater than the specified range, replace the driver door lock.

Repair Procedures

Perform the **Diagnostic Repair Verification** after completing the diagnostic procedure.

- **Front Side Door Lock Replacement**
- **Control Module References** for BCM replacement, setup and programming

TRUNK RELEASE INOPERATIVE

Diagnostic Instructions

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

Diagnostic Fault Information

Circuit	Short to Ground	Open/High Resistance	Short to Voltage	Signal Performance
Trunk Release Control Circuit	1	1	1	-
Door Lock Switch Unlock Signal Circuit	2	2	2	-
Rear Compartment Lid Latch Ground	-	1	1	-
1. Trunk release is inoperative from both the switch and keyless entry transmitter 2. Trunk release is inoperative only from switch				

Circuit/System Description

The rear compartment lid can be released by holding either front power door lock switch to the unlock position for a minimum of 2 seconds or by pressing the rear compartment release button on the key fob. The transaxle must be in the PARK position for the rear compartment to release. When the rear compartment lid release is commanded, voltage is applied to the rear compartment lid release actuator from the BCM, thus opening the rear compartment.

Reference Information

Schematic Reference

Release Systems Schematics

Connector End View Reference

Component Connector End Views

Description and Operation

Luggage Compartment Description and Operation

Electrical Information Reference

- **Circuit Testing**
- **Connector Repairs**
- **Testing for Intermittent Conditions and Poor Connections**
- **Wiring Repairs**

Scan Tool Reference

Control Module References for scan tool information

Circuit/System Verification

1. Ignition ON, observe the scan tool RF Door Unlock Switch parameter while pressing passenger door lock switch. The parameter should change between Active and Inactive.
 - o If the RF Door Unlock Switch parameters do not change, refer to **Power Door Locks Inoperative**.
2. Command the trunk release with a scan tool, the rear compartment lid latch should release the trunk lid.

Circuit/System Testing

1. Ignition OFF, disconnect the harness connector at the rear compartment lid latch.
2. Test for less than 1 ohm between the ground circuit terminal 3 and ground.
 - o If greater than the specified range, test the ground circuit for an open/high resistance.
3. Connect a test lamp between the control circuit terminal 4 and the ground circuit terminal 3.
4. Command the trunk release ON and OFF with a scan tool. The test lamp should turn ON and OFF when changing between the commanded states.
 - o If the test lamp is always ON, test the control circuit for a short to voltage. If the circuit tests normal, replace the BCM.
 - o If the test lamp is always OFF, test the control circuit for a short to ground or an open/high resistance. If the circuit tests normal, replace the BCM.
5. If all circuits test normal, test or replace the rear compartment lid latch

Component Testing

1. Ignition OFF, disconnect the harness connector at the rear compartment lid latch.
2. Install a 7.5-amp fused jumper wire between the control terminal 4 and 12 volts. Install a jumper wire between the ground terminal 3 and ground. Verify the rear compartment lid latch activates.
 - o If the latch does not perform as specified, replace the rear compartment lid latch.

Repair Procedures

Perform the **Diagnostic Repair Verification** after completing the diagnostic procedure.

- **Rear Compartment Lid Latch Replacement**
- **Control Module References** for BCM replacement, setup, and programming

TRUNK AJAR INDICATOR MALFUNCTION

Diagnostic Instructions

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

Diagnostic Fault Information

Circuit	Short to Ground	Open/High Resistance	Short to Voltage	Signal Performance
Rear Compartment Lid Ajar Switch Signal	1	2	2	-

Rear Compartment Lid Latch Ground	-	3	3	-
1. Trunk Ajar Message Always Illuminated 2. Trunk Ajar Message Inoperative 3. Trunk Release Inoperative				

Circuit/System Description

The body control module (BCM) uses the rear compartment lid latch to determine the position of the trunk lid. When the lid is open, the rear compartment lid ajar switch is closed, providing a ground path for the trunk ajar switch signal circuit. When the BCM detects the trunk lid is ajar, a serial data message is sent to the driver information center (DIC) requesting the Trunk Ajar message be displayed.

Reference Information**Schematic Reference****Release Systems Schematics****Connector End View Reference****Component Connector End Views****Electrical Information Reference**

- **Circuit Testing**
- **Connector Repairs**
- **Testing for Intermittent Conditions and Poor Connections**
- **Wiring Repairs**

Scan Tool Reference**Control Module References** for scan tool information**Circuit/System Testing**

1. Ignition OFF, disconnect the harness connector at the rear compartment lid latch.
2. Ignition ON, verify the Trunk Ajar message on the DIC is not displayed.
 - If the Trunk Ajar message is displayed, test the signal circuit terminal 2 for a short to ground. If the circuit tests normal, replace the BCM.
3. Install a 3-amp fused jumper between the signal circuit terminal 2 and ground. Verify the Trunk Ajar message is displayed on the DIC.
 - If the Trunk Ajar message is not displayed, test the signal circuit for a short to voltage or and open/high resistance. If the circuit tests normal, replace the BCM.
4. If all circuits test normal, test or replace the rear compartment lid latch.

Component Testing

1. Ignition OFF, disconnect the harness connector at the rear compartment lid latch.
2. Test for infinite resistance between the signal terminal 2 and the ground terminal 3 in the open position.
 - If not the specified value, replace the rear compartment lid latch.
3. Test for less than 2.0 ohms between the signal terminal 2 and the ground terminal 3 in the closed position.
 - If greater than the specified range, replace the rear compartment lid latch.

Repair Procedures

Perform the **Diagnostic Repair Verification** after completing the diagnostic procedure.

- **Rear Compartment Lid Ajar Indicator Switch Replacement**
- **Control Module References** for BCM replacement, setup and programming

REPAIR INSTRUCTIONS

REAR COMPARTMENT LID AJAR INDICATOR SWITCH REPLACEMENT

Removal Procedure

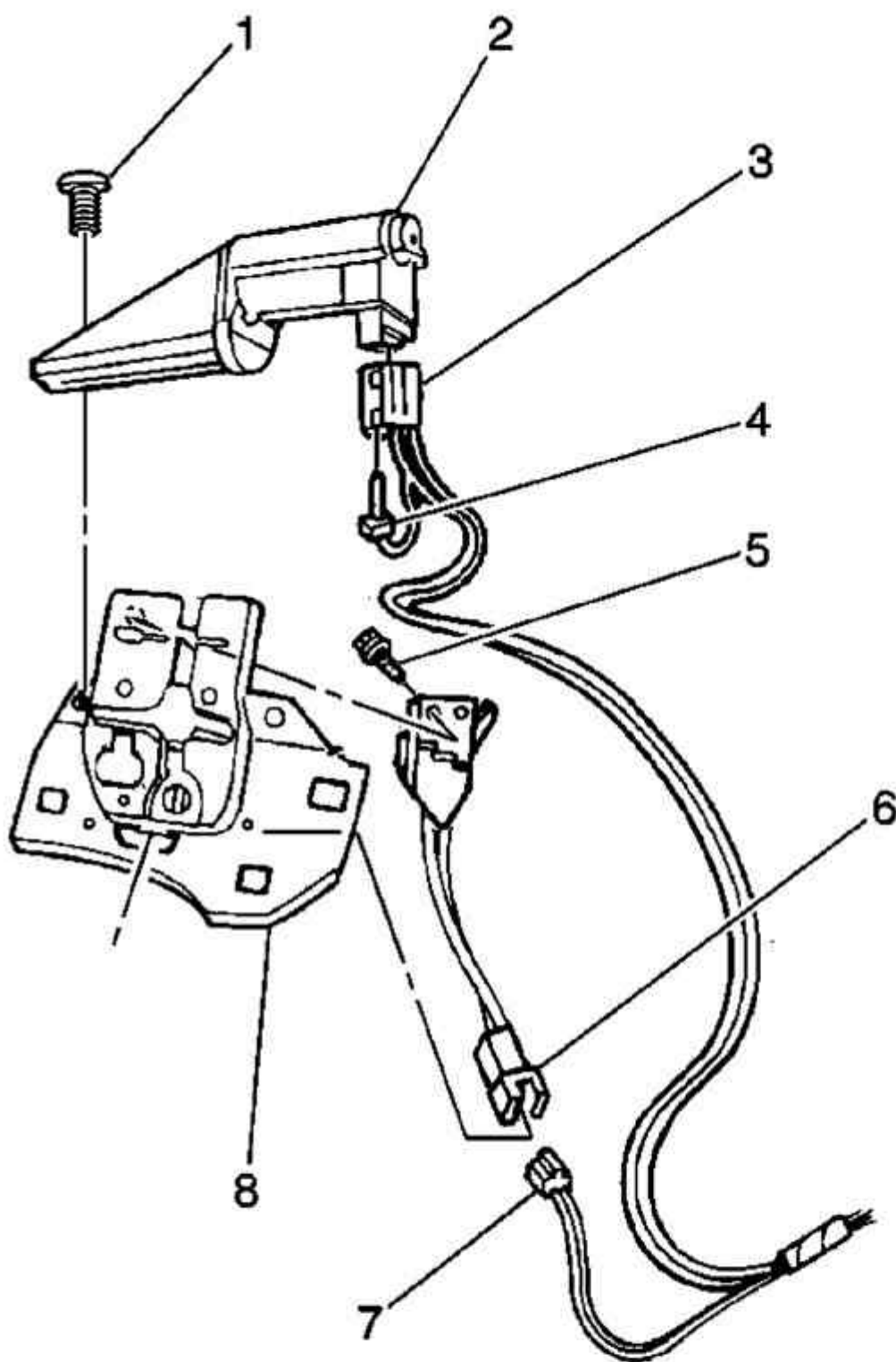


Fig. 5: Identifying Rear Compartment Lid Ajar Switch Components
Courtesy of GENERAL MOTORS CORP.

1. Open the rear compartment.
2. Remove the rear compartment lid latch. Refer to **Rear Compartment Lid Latch Replacement**.
3. Remove the screw (5) from the rear compartment lid ajar/lid lamp switch.
4. Remove the electric connector.
5. Remove the rear compartment lid ajar/lid lamp switch.

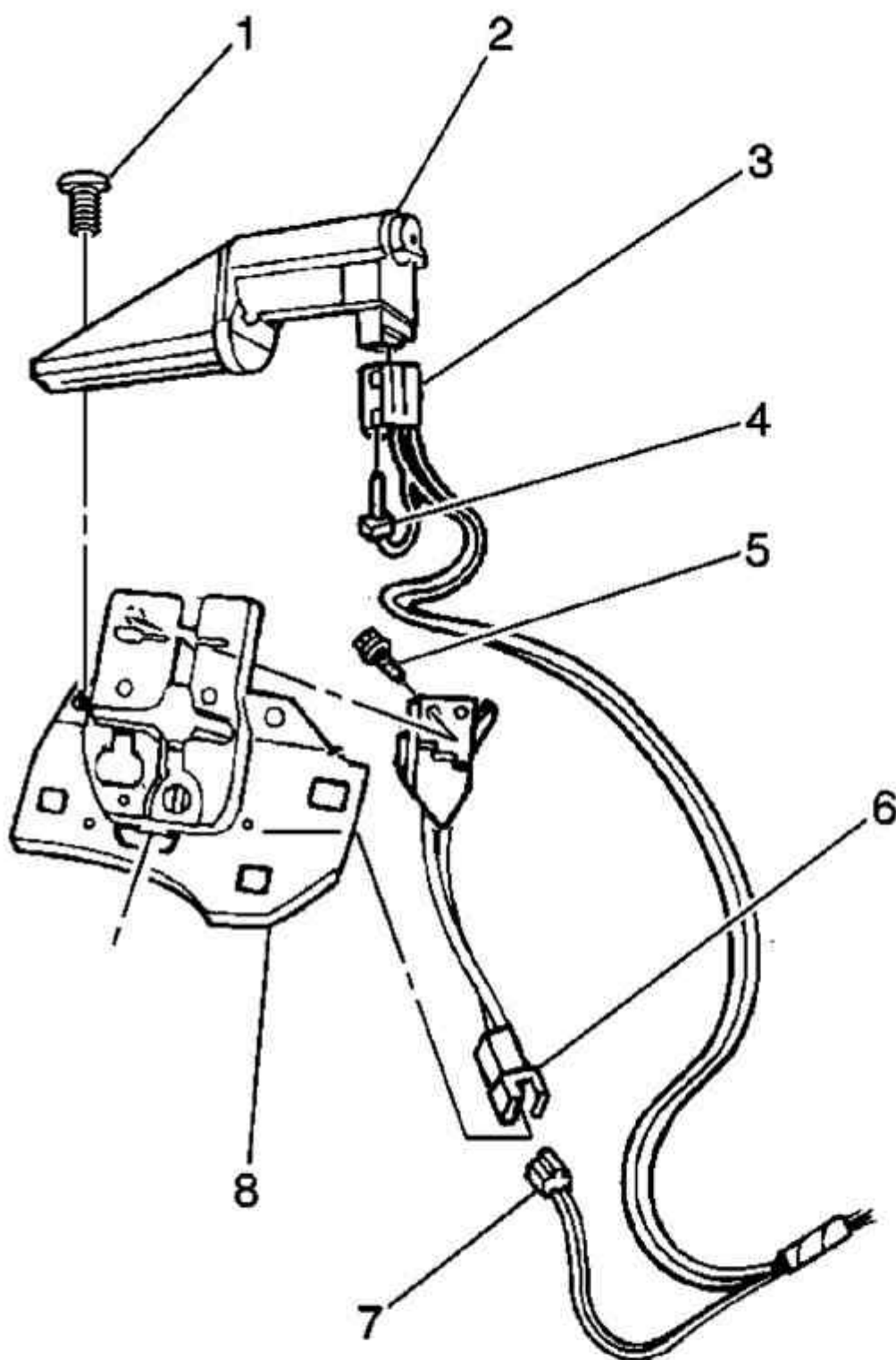


Fig. 6: Identifying Rear Compartment Lid Ajar Switch Components
Courtesy of GENERAL MOTORS CORP.

1. Position the rear compartment lid ajar switch to the rear compartment lid latch.
2. Install the electric connector.

NOTE: Refer to FASTENER NOTICE .

3. Install the screw (5) to the rear compartment lid ajar/lid lamp switch.

Tighten: Tighten the rear compartment lid ajar switch screw to 5 N.m (44 lb in).

4. Install the rear compartment lid latch. Refer to **Rear Compartment Lid Latch Replacement**.
5. Close the rear compartment.

FRONT SIDE DOOR LOCK ACTUATOR REPLACEMENT

The door lock actuator is part of the front door lock and can not be serviced separately. Refer to **Front Side Door Lock Replacement** for service procedure.

REAR SIDE DOOR LOCK ACTUATOR REPLACEMENT

The door lock actuator is part of the rear door lock and can not be serviced separately. Refer to **Rear Door Lock Replacement** for service procedure.

DOOR LOCK CYLINDER REPLACEMENT

Removal Procedure

IMPORTANT: Do not attempt repairs in order to correct lock cylinder discrepancies.
Replace the lock cylinder.

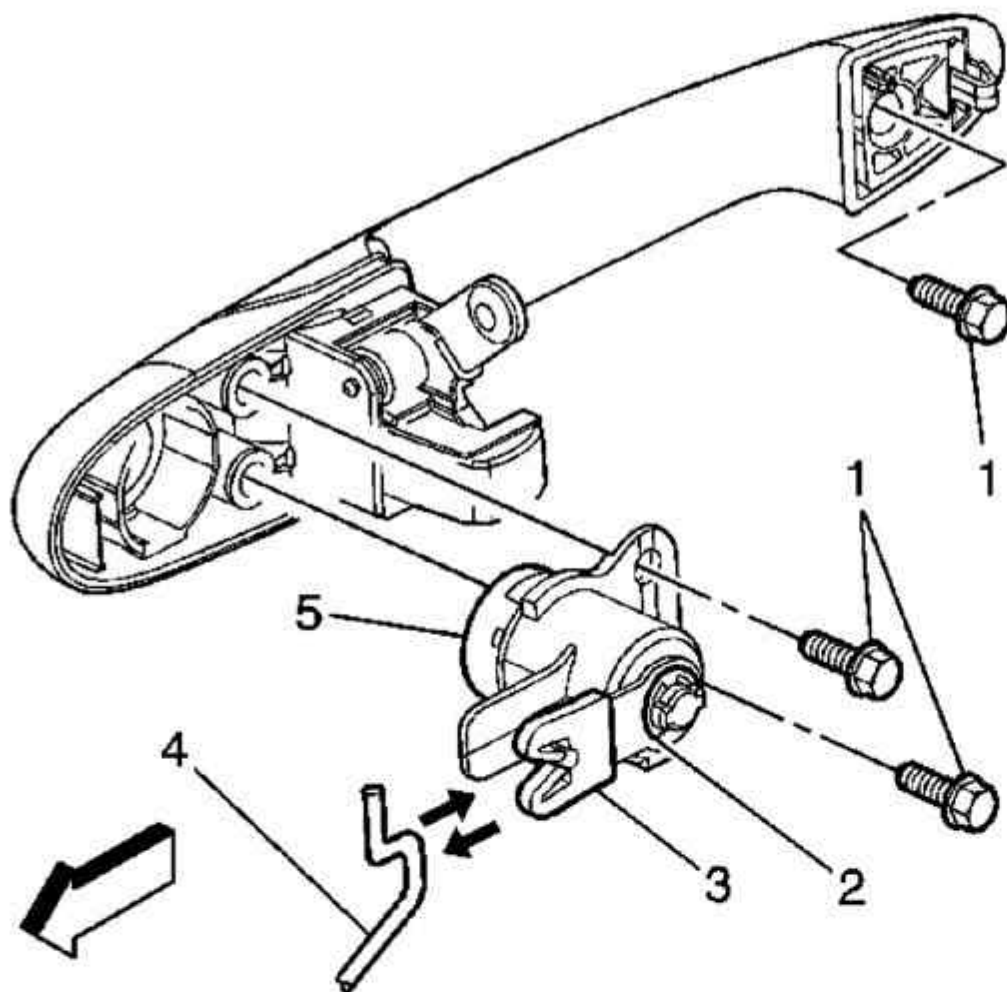


Fig. 7: View Of Door Handle Components
Courtesy of GENERAL MOTORS CORP.

1. Remove the front door trim panel. Refer to **Front Side Door Trim Panel Replacement**.

2. Remove the front door water deflector. Refer to **Front Side Door Water Deflector Replacement**.
3. Remove the front door outside handle. Refer to **Front Side Door Outside Handle Replacement**.
4. Remove the lock paw retaining clip (2).
5. Remove the lock cylinder paw (3).
6. Remove the lock cylinder (5) from the outside door handle.

Installation Procedure

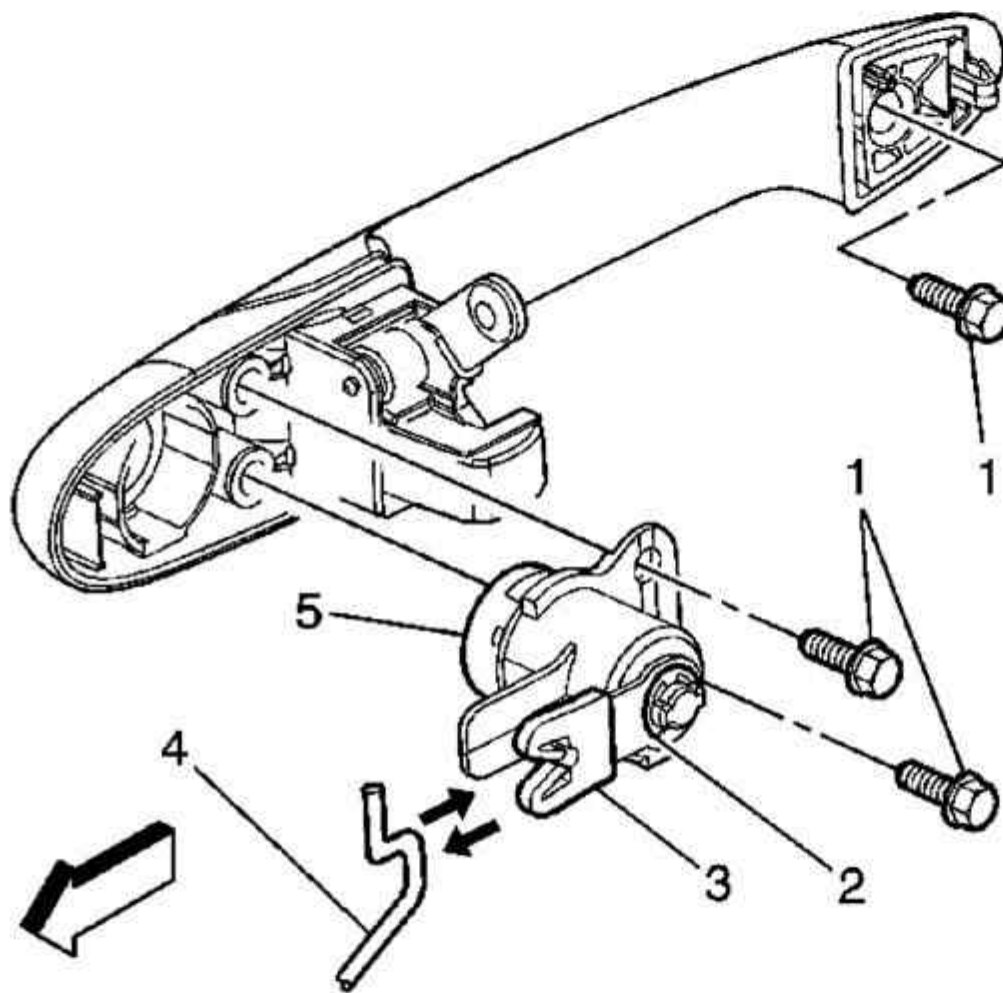


Fig. 8: View Of Door Handle Components
Courtesy of GENERAL MOTORS CORP.

1. Install the lock cylinder (5) into the outside door handle.
2. Install the lock cylinder paw (3).
3. Install the lock cylinder paw retaining clip (2).
4. Install the front door outside handle. Refer to **Front Side Door Outside Handle Replacement**.
5. Inspect the door for proper operation.
6. Install the front door water deflector. Refer to **Front Side Door Water Deflector Replacement**.
7. Install the front door trim panel. Refer to **Front Side Door Trim Panel Replacement**.

FROZEN LOCK CYLINDER REPAIR

Repair frozen lock cylinders due to cold weather using the following procedure:

IMPORTANT: Be careful not to damage painted surfaces while using a heat gun.

1. Apply heat to the cylinder area with a heat gun.
2. Use a paper clip or a similar item in order to hold the shutter door open.
3. Use compressed air and a blow gun attachment in order to force air into the cylinder.
4. While holding the shutter door open, inject a small amount of multi-purpose lubricant GM P/N 12346241, (Canadian P/N 10953474) or equivalent.
5. Work the key into the cylinder several times.
6. Wipe any excess lubrication residue from the key.

FRONT SIDE DOOR OUTSIDE HANDLE REPLACEMENT

Removal Procedure

IMPORTANT: The outside handles have adjustable outside handle lock rods. This allows for adjustment of the amount of travel needed in order to operate the outside handle.

When servicing a vehicle with adjustable outside handle lock rods, remove all free play between the outside handle and the lock. Also, do not operate the outside handle before these connections are made.

1. Raise the window to the full up position.
2. Remove the front door trim panel. Refer to **Front Side Door Trim Panel Replacement** .
3. Remove the front water deflector, as necessary. Refer to **Front Side Door Water Deflector Replacement** .

NOTE: Refer to PAINT DAMAGE NOTICE .

4. Apply masking tape around the outside handle.

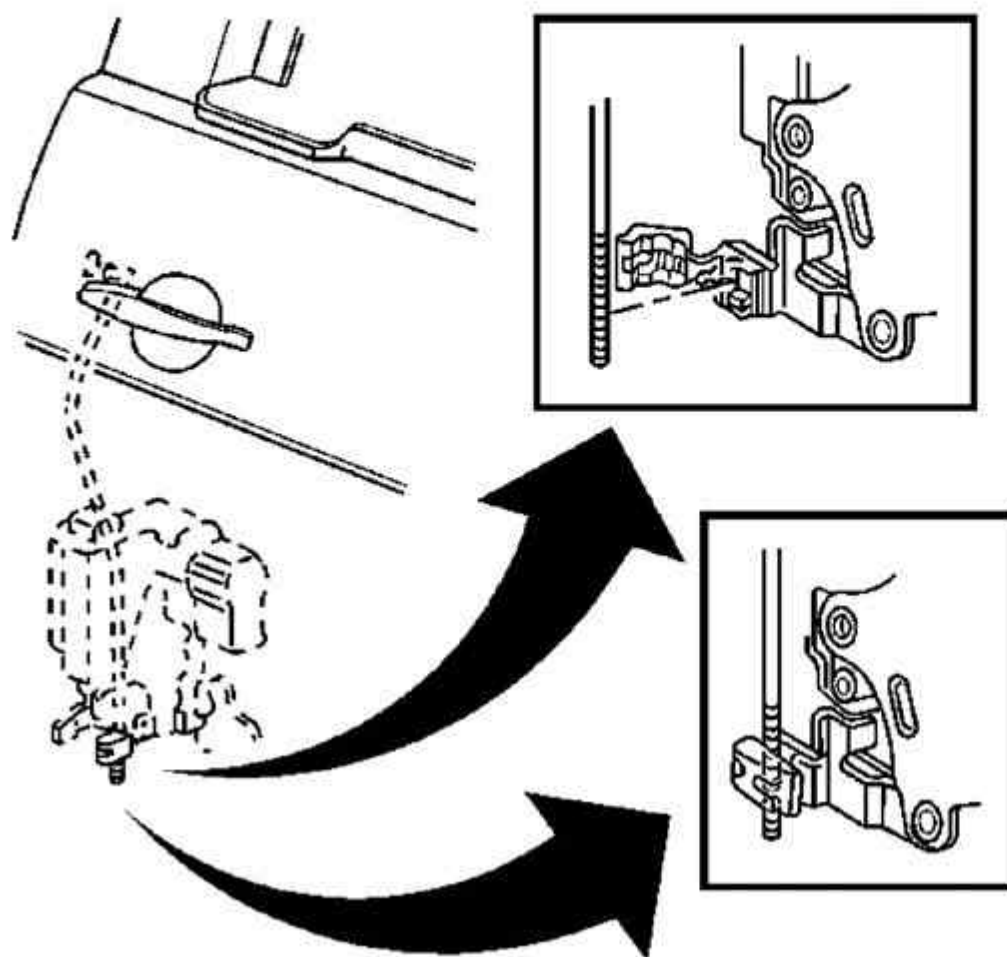


Fig. 9: View Of Handle Rod To Lock Clip
Courtesy of GENERAL MOTORS CORP.

5. Open the outside door handle rod to lock clip located on the door lock.
6. Remove the lock cylinder rod from the outside door handle. Refer to **Door Lock Cylinder Replacement**.

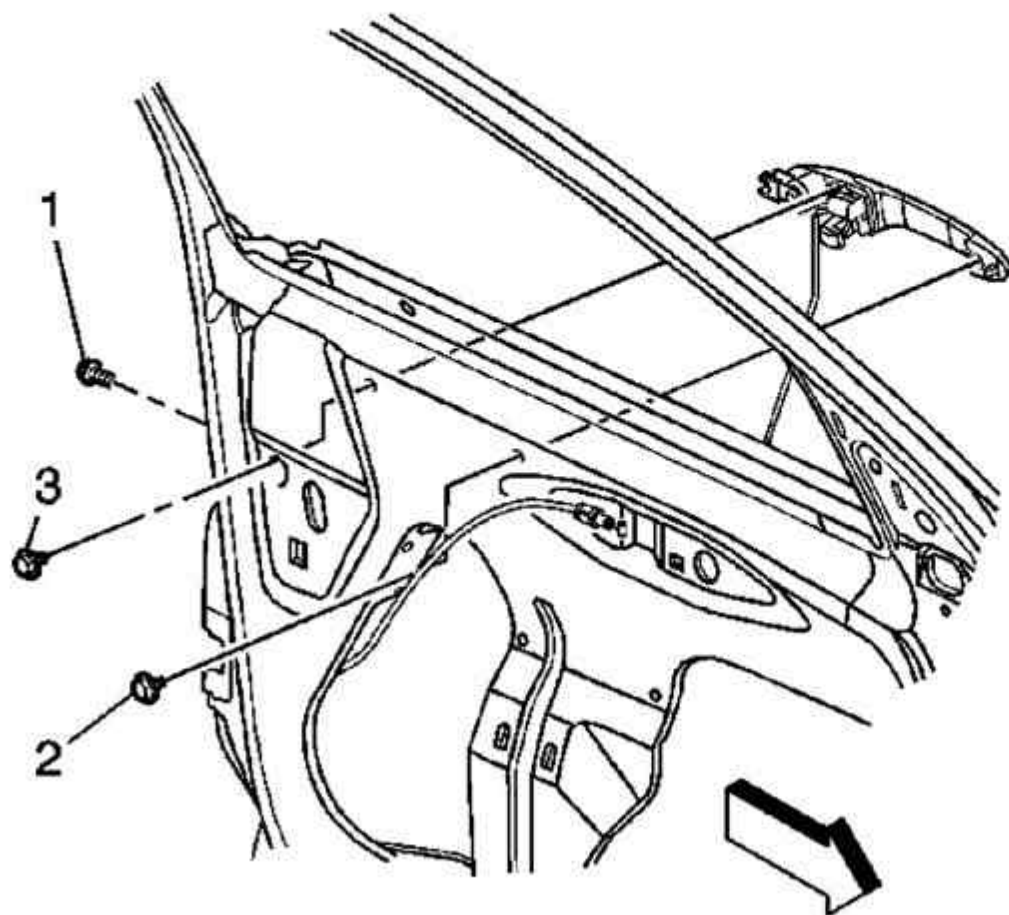


Fig. 10: Identifying Outside Handle Bolts
Courtesy of GENERAL MOTORS CORP.

7. Remove the door handle bolt access tape from the inner door panel.
8. Remove the bolts (1, 2) from the outside handle.

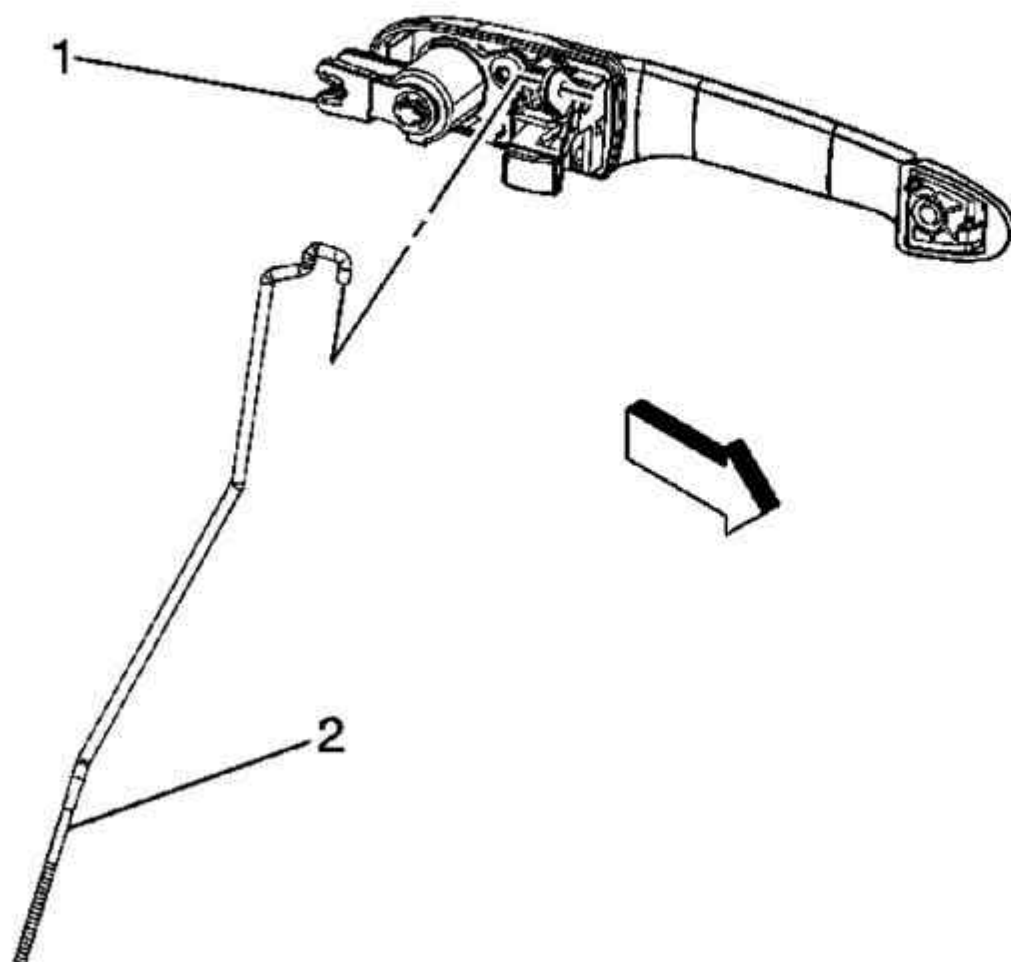


Fig. 11: View Of Outside Handle & Rod
Courtesy of GENERAL MOTORS CORP.

9. Remove the outside handle (1) and the rod (2) from the door.

Installation Procedure

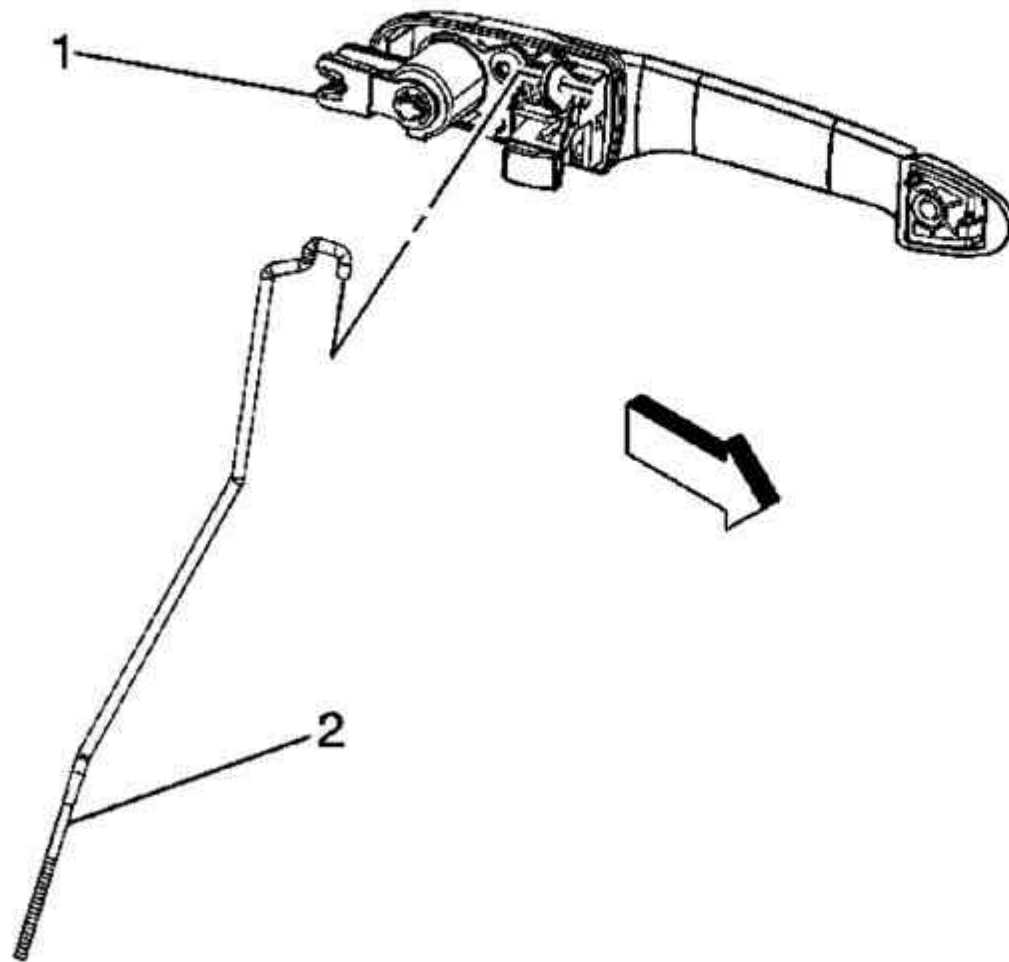


Fig. 12: View Of Outside Handle & Rod
Courtesy of GENERAL MOTORS CORP.

1. Install the outside handle (1) and the rod (2) to the door.

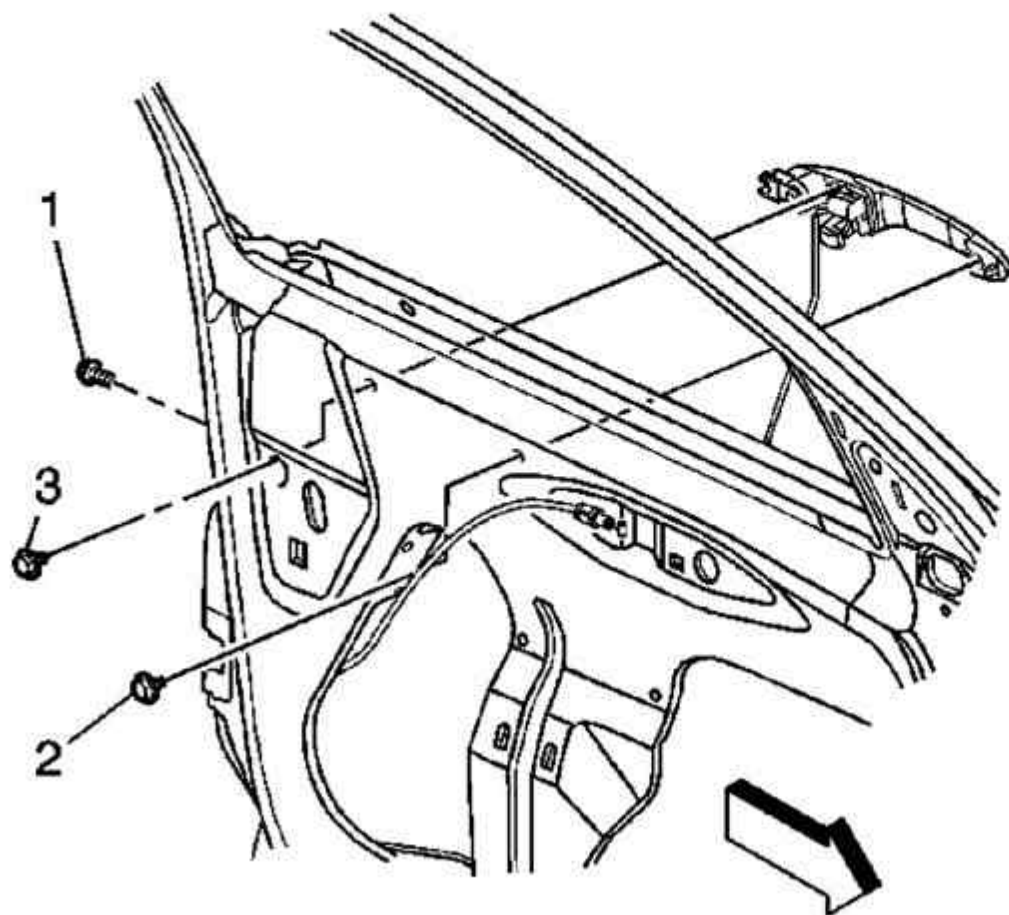


Fig. 13: Identifying Outside Handle Bolts
Courtesy of GENERAL MOTORS CORP.

NOTE: Refer to Fastener Notice .

2. Install the outside handle bolts (1 2) to the door.

Tighten: Tighten the bolts to 10 N.m (89 lb in).

3. Install the outside handle bolt access tape to the inner door panel.
4. Install the lock cylinder rod to the outside door handle. Refer to Door Lock Cylinder Replacement.

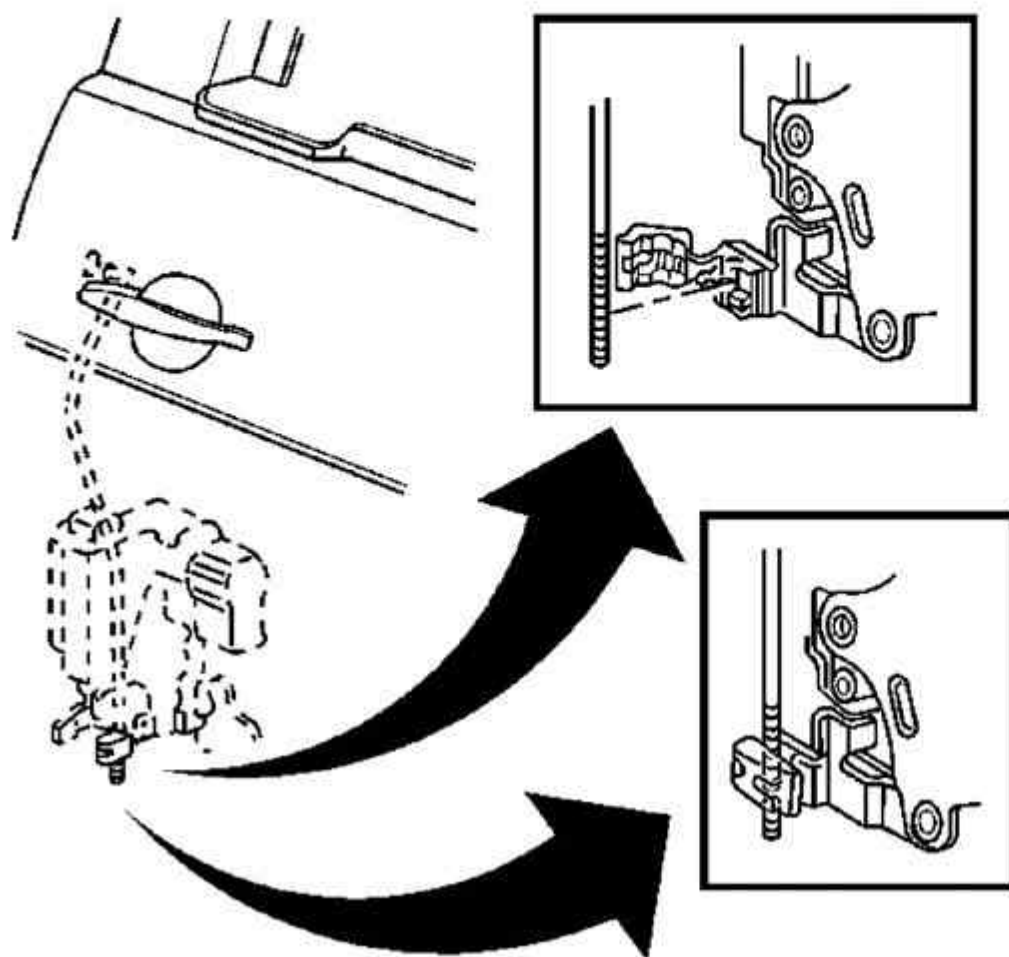


Fig. 14: View Of Handle Rod To Lock Clip
Courtesy of GENERAL MOTORS CORP.

5. Install the outside handle rod into the clip
6. Close the clip cover over the outside handle rod.
7. Inspect the outside handle for proper operation.
8. Remove the masking tape.
9. Install the front door water deflector. Refer to Front Side Door Water Deflector Replacement .
10. Install the front door trim panel. Refer to Front Side Door Trim Panel Replacement .

REAR SIDE DOOR OUTSIDE HANDLE REPLACEMENT

Removal Procedure

IMPORTANT: The outside handles have adjustable outside handle lock rods. This allows for adjustment of the amount of travel needed in order to operate the outside handle.

When servicing a vehicle with adjustable outside handle lock rods, remove all free play between the outside handle and the lock. Also, do not operate the outside handle before these connections are made.

1. Remove the rear door trim panel. Refer to Rear Side Door Trim Panel Replacement .
2. Remove the rear door water deflector. Refer to Rear Side Door Water Deflector Replacement .

3. Raise the window to the full up position.

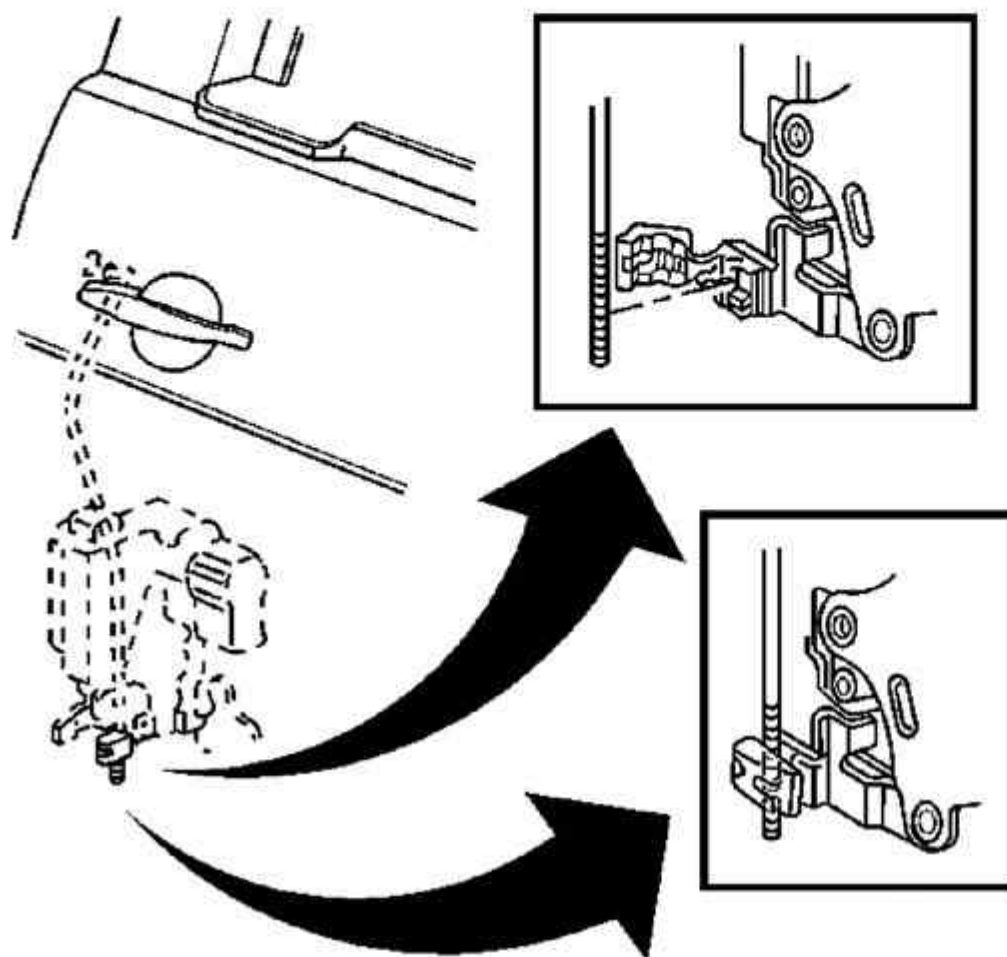


Fig. 15: View Of Handle Rod To Lock Clip
Courtesy of GENERAL MOTORS CORP.

NOTE: Refer to PAINT DAMAGE NOTICE.

4. Apply masking tape around the outside handle.
5. Open the outside handle rod to lock clip located on the door lock.
6. Remove the rear door lock. Refer to Rear Door Lock Replacement.

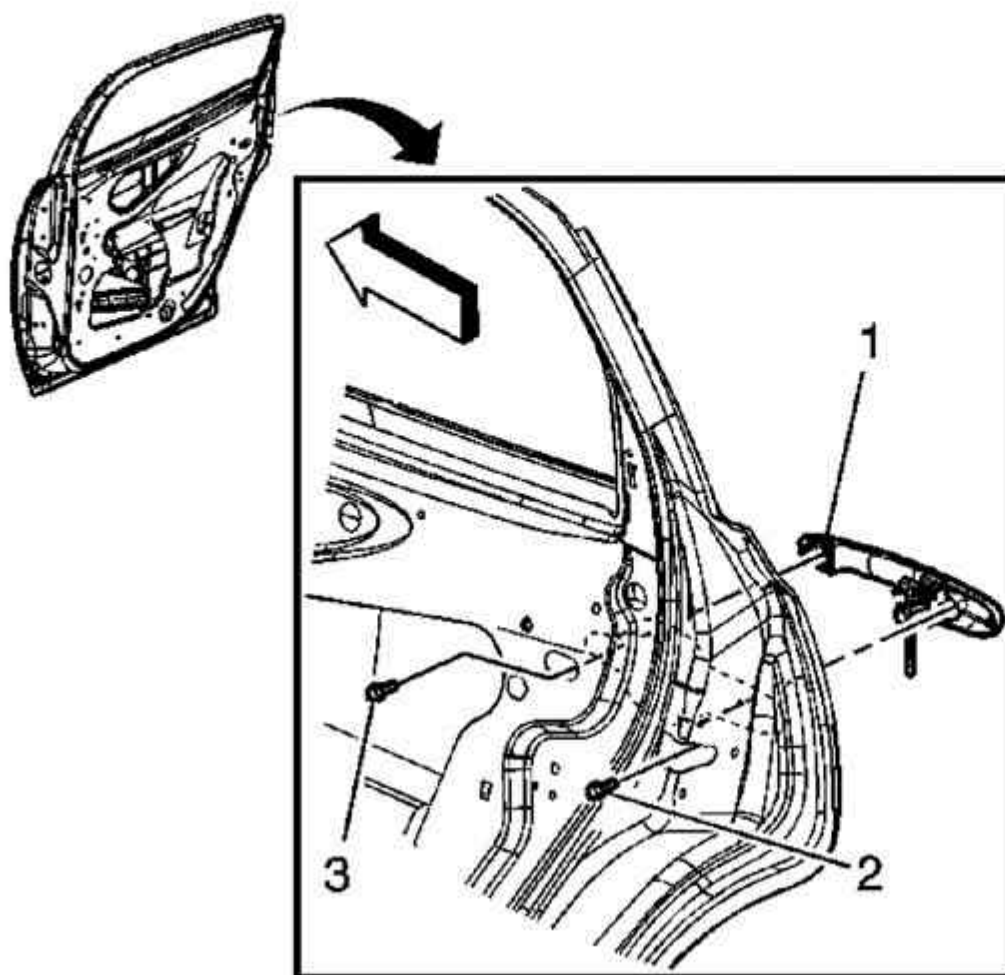


Fig. 16: View Of Rear Door Hinge Bolts
Courtesy of GENERAL MOTORS CORP.

7. Remove the outside door handle bolt access tape.
8. Remove the bolts (3) from the rear door handle.
9. Remove the outside handle bolt (2) through the latch hole.

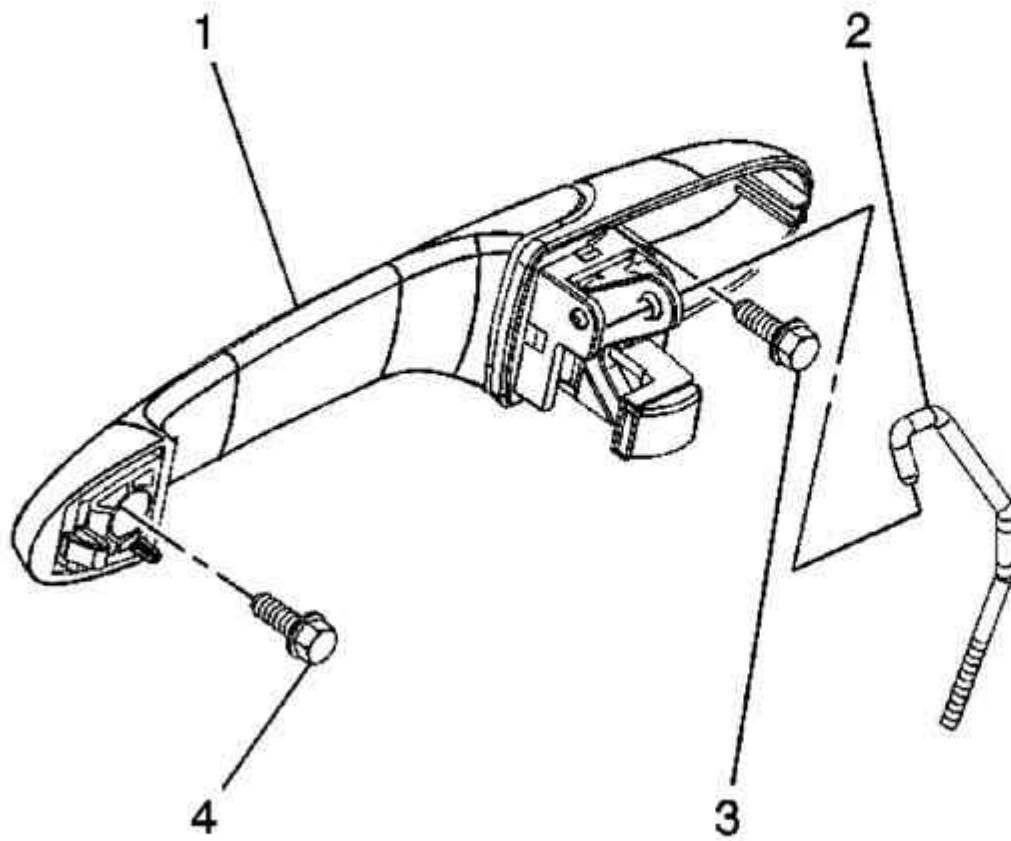


Fig. 17: Identifying Outside Door Handle & Rod
Courtesy of GENERAL MOTORS CORP.

10. Remove the outside handle (1) and the rod (2) from the door.

Installation Procedure

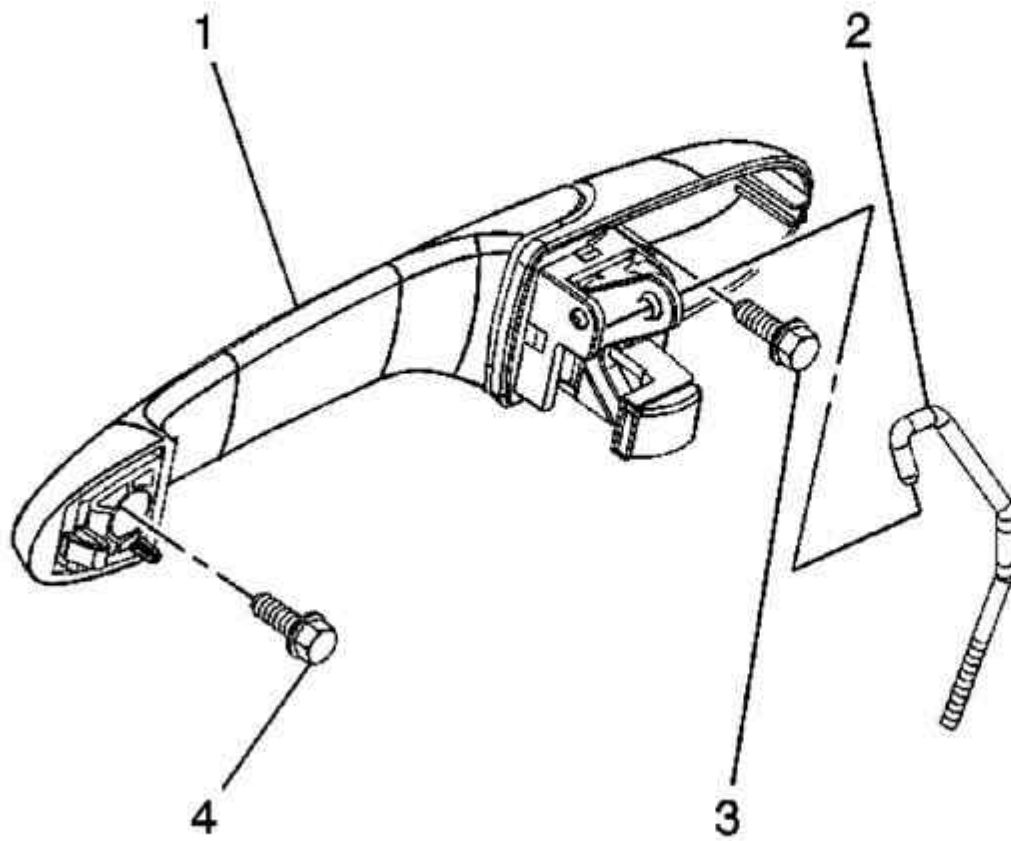


Fig. 18: Identifying Outside Door Handle & Rod
Courtesy of GENERAL MOTORS CORP.

1. Install the outside door handle (1) and the rod (2) to the door.

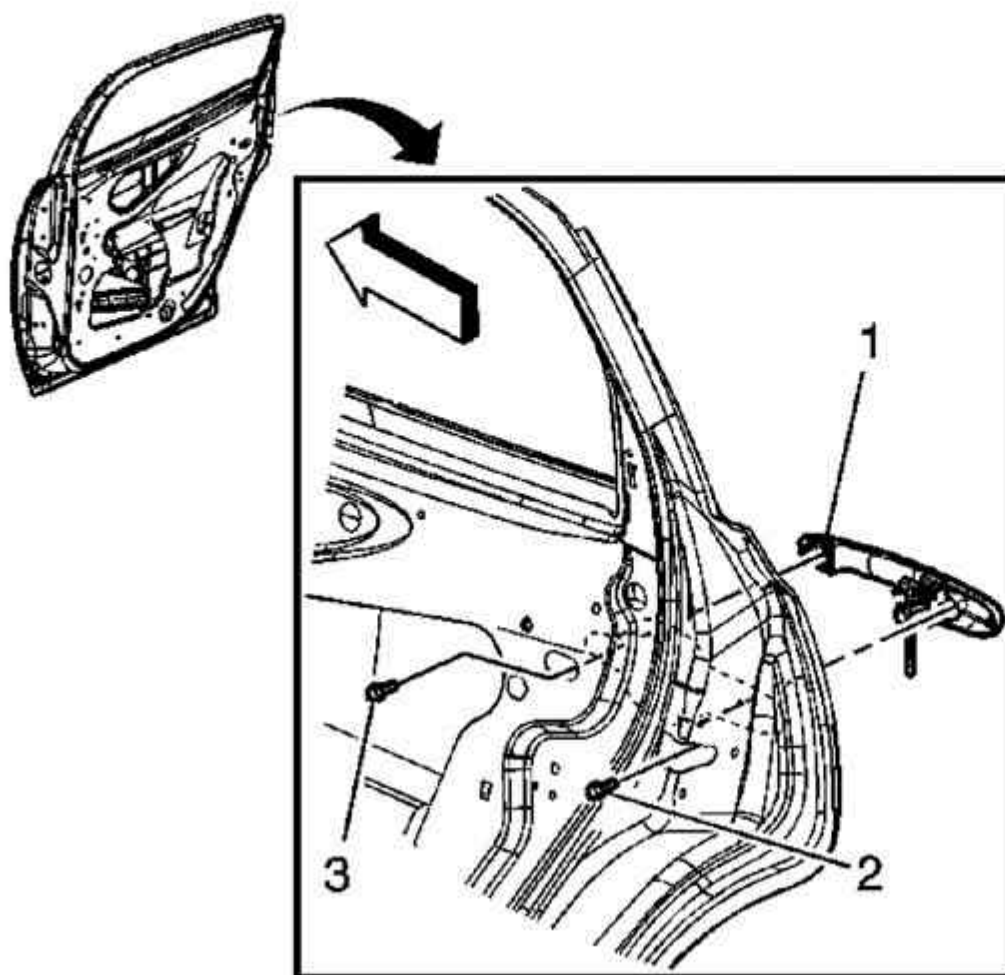


Fig. 19: View Of Rear Door Hinge Bolts
Courtesy of GENERAL MOTORS CORP.

NOTE: Refer to Fastener Notice .

2. Install the outside handle bolt (2) through the latch hole.

Tighten: Tighten the bolt to 10 N.m (89 lb in).

3. Install the bolts (3) to the rear door handle.

Tighten: Tighten the bolt to 10 N.m (89 lb in).

4. Install the rear door lock. Refer to Rear Door Lock Replacement.
5. Install the outside door handle bolt access tape.

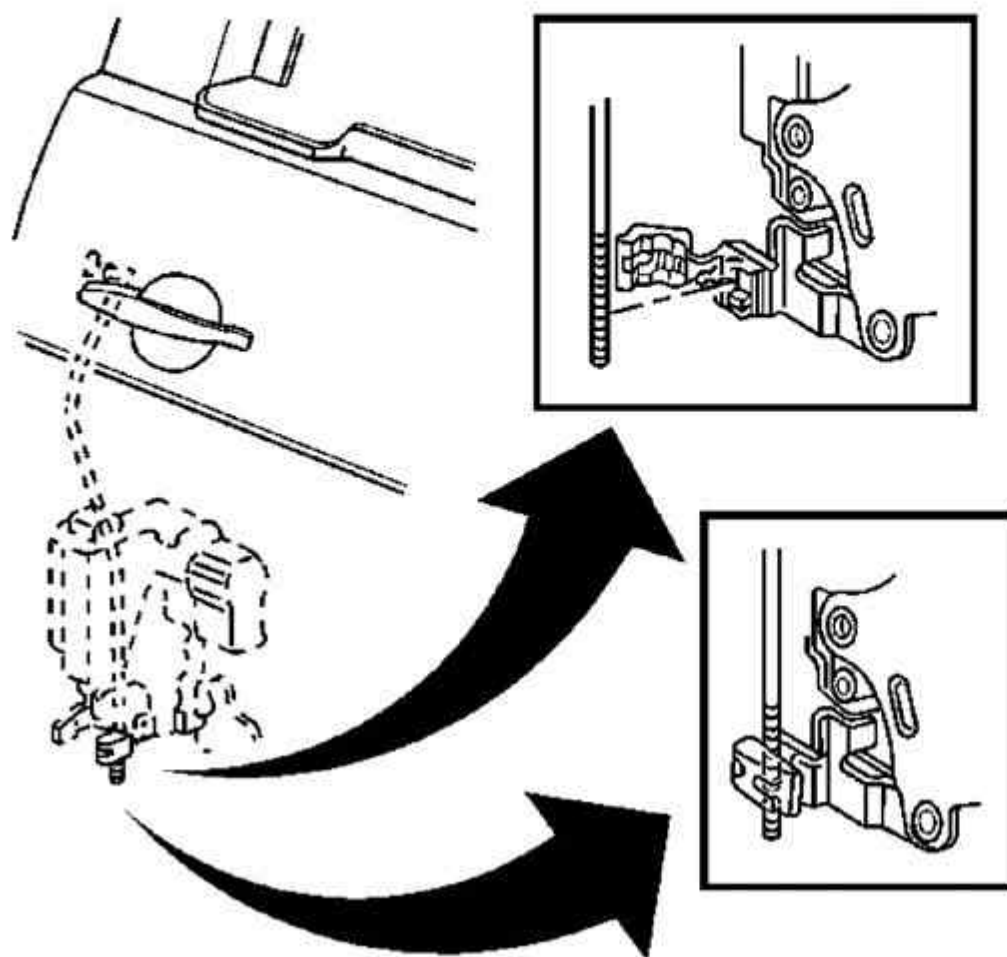


Fig. 20: View Of Handle Rod To Lock Clip
Courtesy of GENERAL MOTORS CORP.

6. Install the outside handle rod into the clip.
7. Close the clip cover over the outside door handle rod.
8. Inspect the outside door handle for proper operation.
9. Remove the masking tape.
10. Install the rear door water deflector. Refer to **Rear Side Door Water Deflector Replacement**.
11. Install the rear door trim panel. Refer to **Rear Side Door Trim Panel Replacement**.

REAR COMPARTMENT LID LATCH REPLACEMENT

Removal Procedure

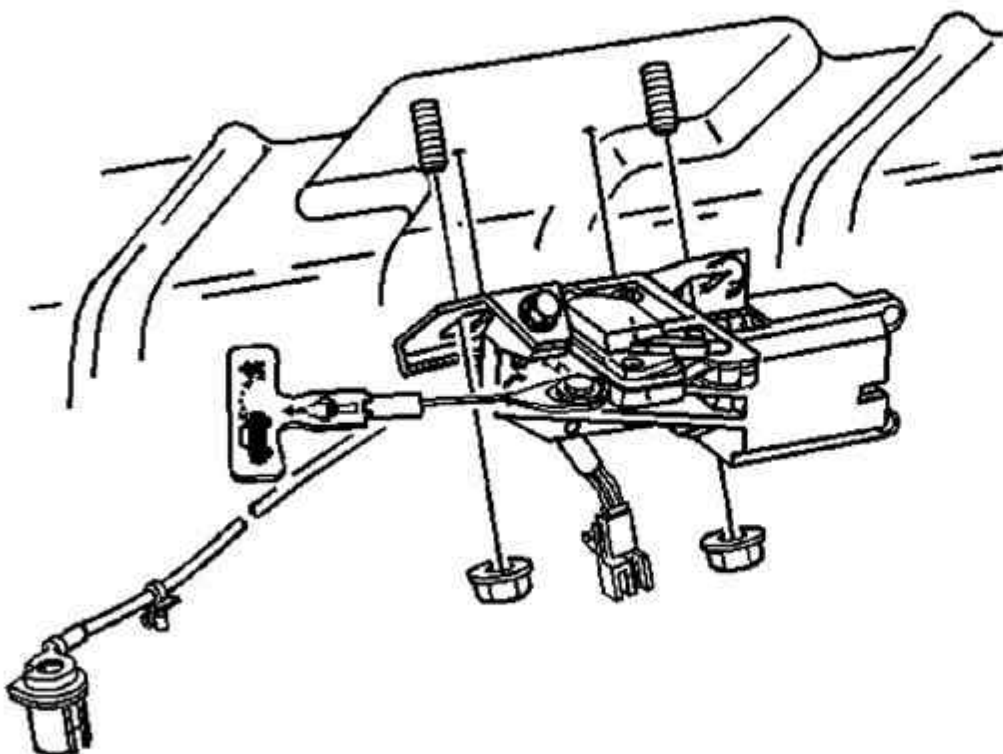


Fig. 21: Identifying Rear Compartment Lid Latch & Fasteners
Courtesy of GENERAL MOTORS CORP.

1. Open the rear compartment.
2. Remove the rear compartment lid carpet. Refer to **Rear Compartment Lid Inner Panel Trim Replacement**.
3. Use a grease pencil to mark the location of the rear compartment lid latch to the rear compartment lid.
4. Disconnect the electrical connectors from the rear compartment lid latch.
5. Disconnect the lock cylinder actuator cable from the lock cylinder.
6. Remove the rear compartment lid latch to rear compartment lid nuts.
7. Remove the rear compartment lid latch from the rear compartment lid.

Installation Procedure

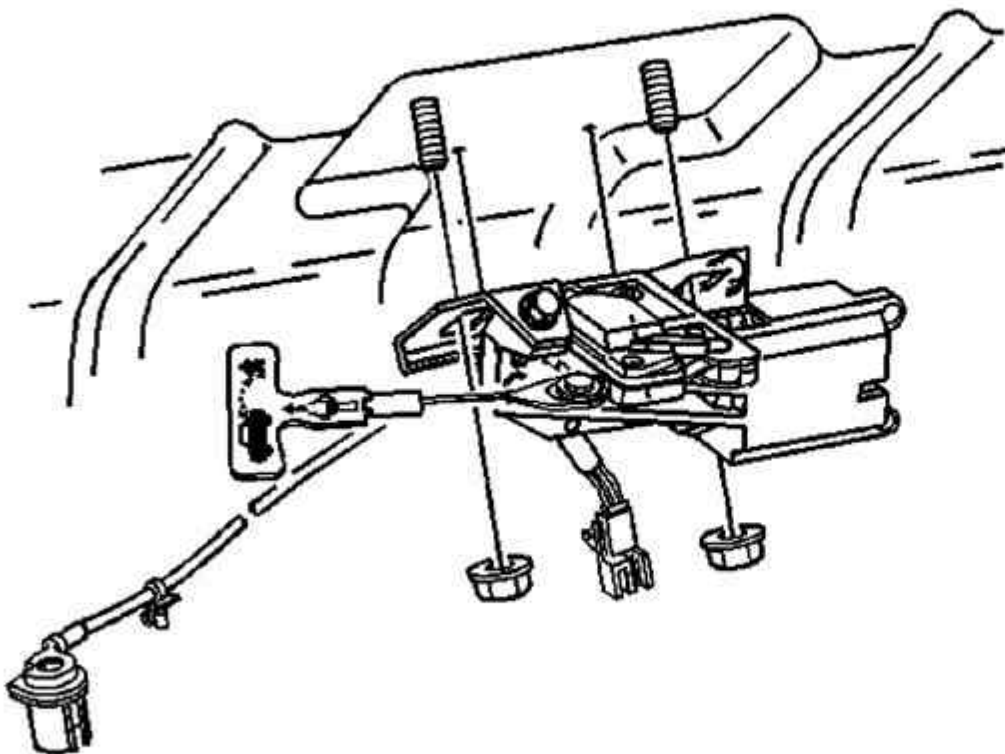


Fig. 22: Identifying Rear Compartment Lid Latch & Fasteners
Courtesy of GENERAL MOTORS CORP.

NOTE: Refer to Fastener Notice .

1. Position the rear compartment lid latch to the alignment marks on the rear compartment lid.
2. Install the rear compartment lid latch to rear compartment lid nuts.

Tighten: Tighten the nuts to 10 N.m (89 lb in).

3. Connect the electrical connectors to the rear compartment lid latch.
4. Connect the lock cylinder actuator cable to the lock cylinder.
5. Install rear compartment lid carpet. Refer to Rear Compartment Lid Inner Panel Trim Replacement .
6. Close the rear compartment.

FRONT SIDE DOOR LOCK REPLACEMENT

Removal Procedure

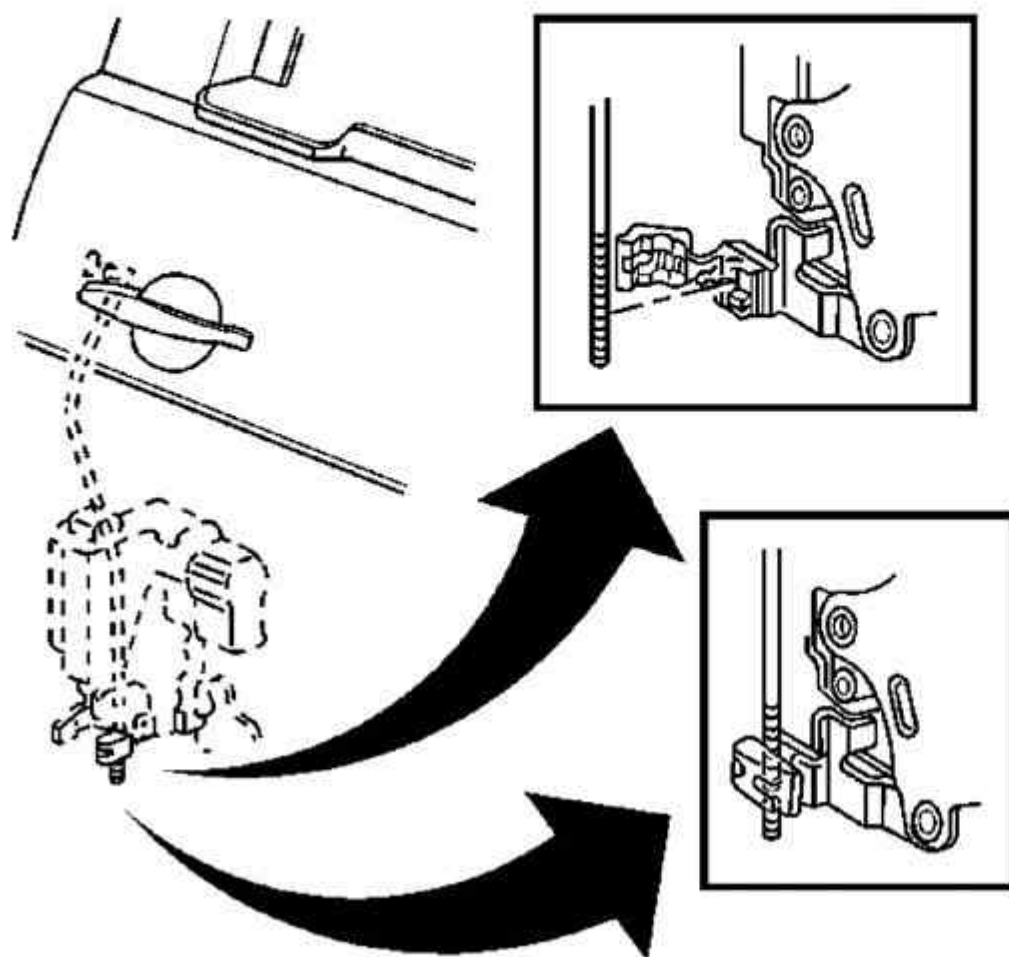


Fig. 23: View Of Handle Rod To Lock Clip
Courtesy of GENERAL MOTORS CORP.

1. Remove the front door trim panel. Refer to **Front Side Door Trim Panel Replacement** .
2. Remove the front door water deflector. Refer to **Front Side Door Water Deflector Replacement** .

IMPORTANT: The outside handles have adjustable outside handle lock rods. This allows for adjustment of the amount of travel needed in order to operate the outside handle.

When servicing a vehicle with adjustable outside handle lock rods, remove all free play between the outside handle and the lock. Also, do not operate the outside handle before these connections are made.

3. Open the outside handle rod to lock clip located on the door lock.

The outside handle rods should be loose from the lock.

4. Remove the lock cylinder rod from the outside door handle. Refer to **Door Lock Cylinder Replacement**.

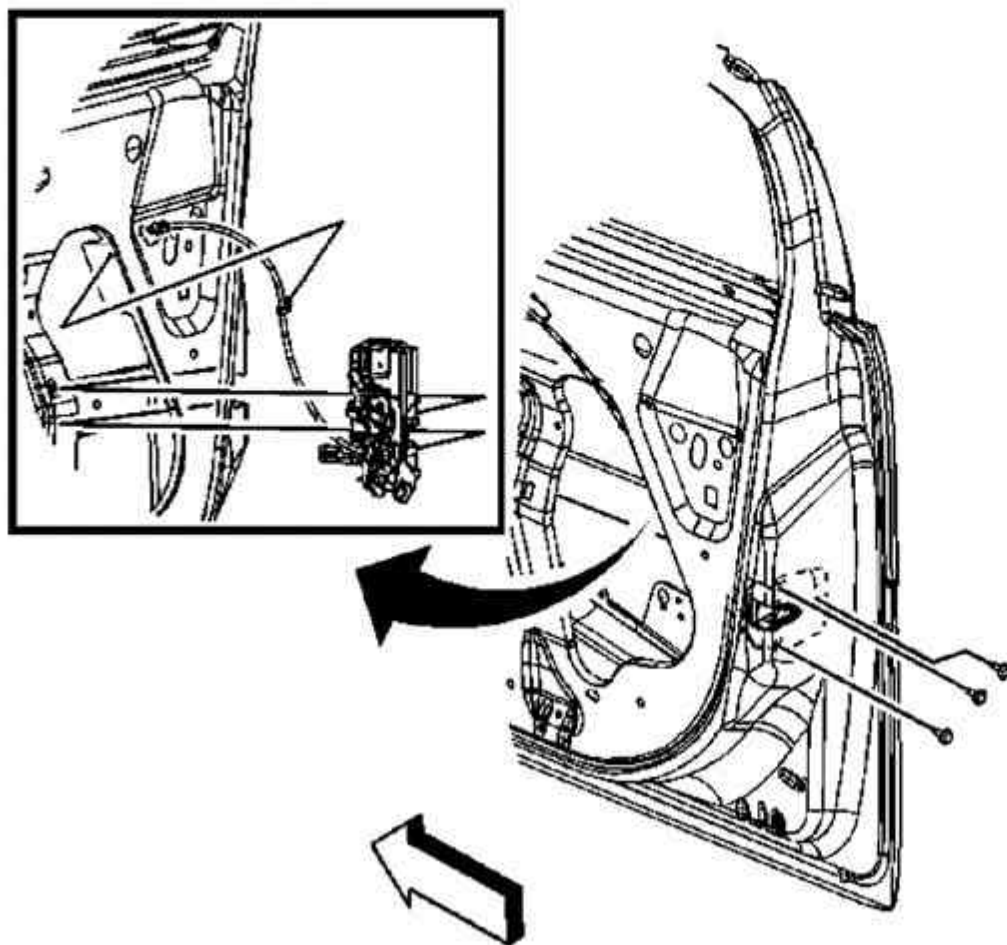


Fig. 24: Locating Door Lock Screws
Courtesy of GENERAL MOTORS CORP.

IMPORTANT: Do not attempt repairs in order to correct lock discrepancies. Replace the lock.

5. Remove the screws from door lock.
6. Remove the door lock and cable through the access hole in the door inner panel.
7. Disconnect the electrical connector from the lock.
8. Remove the lock and cable from the door.

Installation Procedure

1. Install the lock and cable to the door.
2. Connect the electrical connector to the lock.
3. Install the lock and cable through the access hole in the door inner panel.

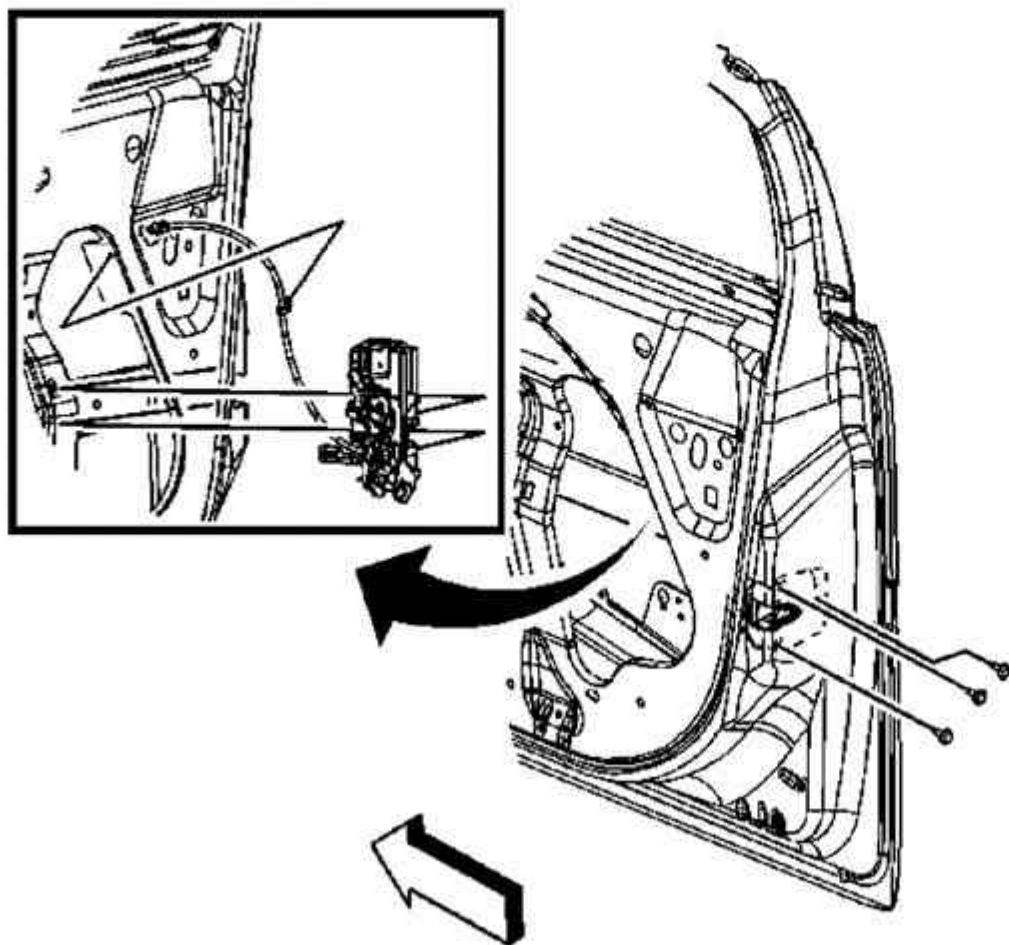


Fig. 25: Locating Door Lock Screws
Courtesy of GENERAL MOTORS CORP.

NOTE: Refer to Fastener Notice .

4. Install the screws to the door lock.

Tighten: Tighten the screws to 10 N.m (89 lb in).

5. Install the lock cylinder rod to the outside door handle. Refer to Door Lock Cylinder Replacement.

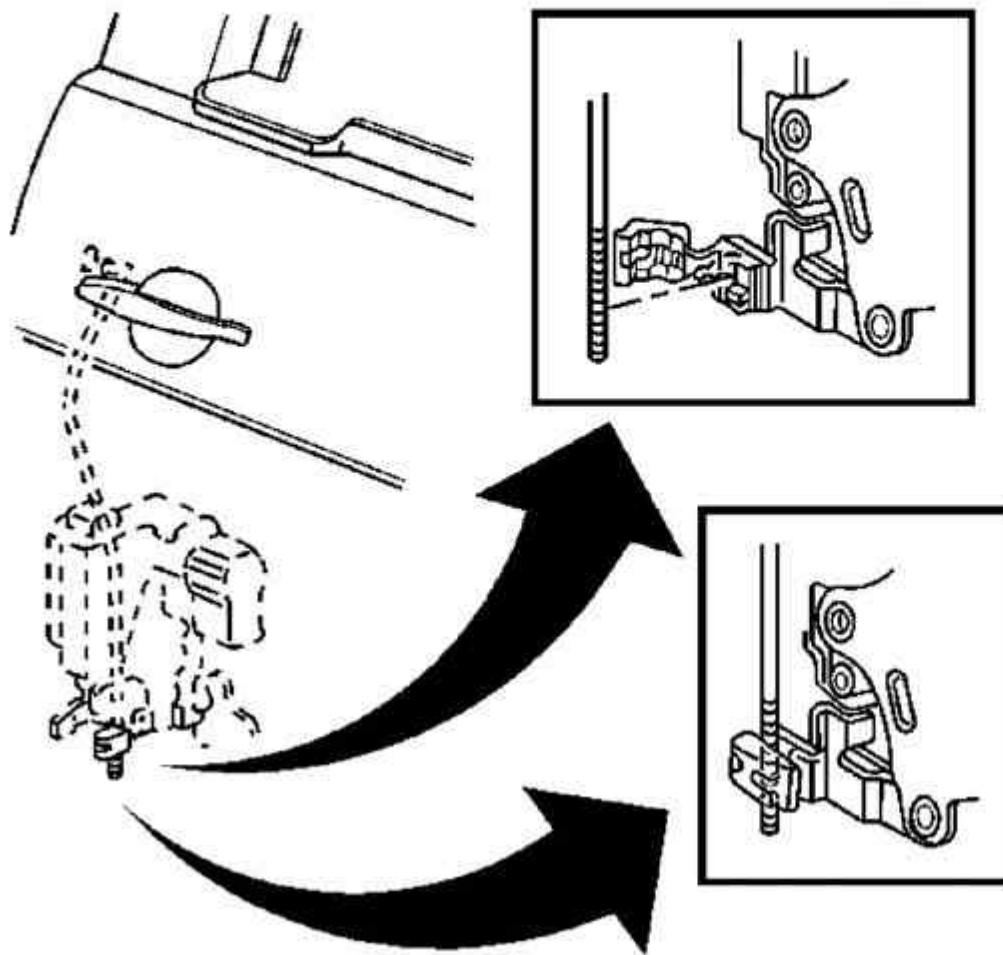


Fig. 26: View Of Handle Rod To Lock Clip
Courtesy of GENERAL MOTORS CORP.

6. Install the outside handle rod into the clip.
7. Close the clip over the outside handle rod.
8. Install the inside door handle.
9. Inspect the door for proper operation.
10. Install the front door water deflector. Refer to Front Side Door Water Deflector Replacement.
11. Install the front door trim panel. Refer to Front Side Door Trim Panel Replacement.

REAR DOOR LOCK REPLACEMENT

Removal Procedure

IMPORTANT: Do not attempt repairs in order to correct lock discrepancies. Replace the lock.

1. Remove the rear door trim panel. Refer to Rear Side Door Trim Panel Replacement.
2. Remove the rear door water deflector. Refer to Rear Side Door Water Deflector Replacement.
3. Remove the rear door window lower rear run channel. Refer to Rear Side Door Window Channel Replacement.

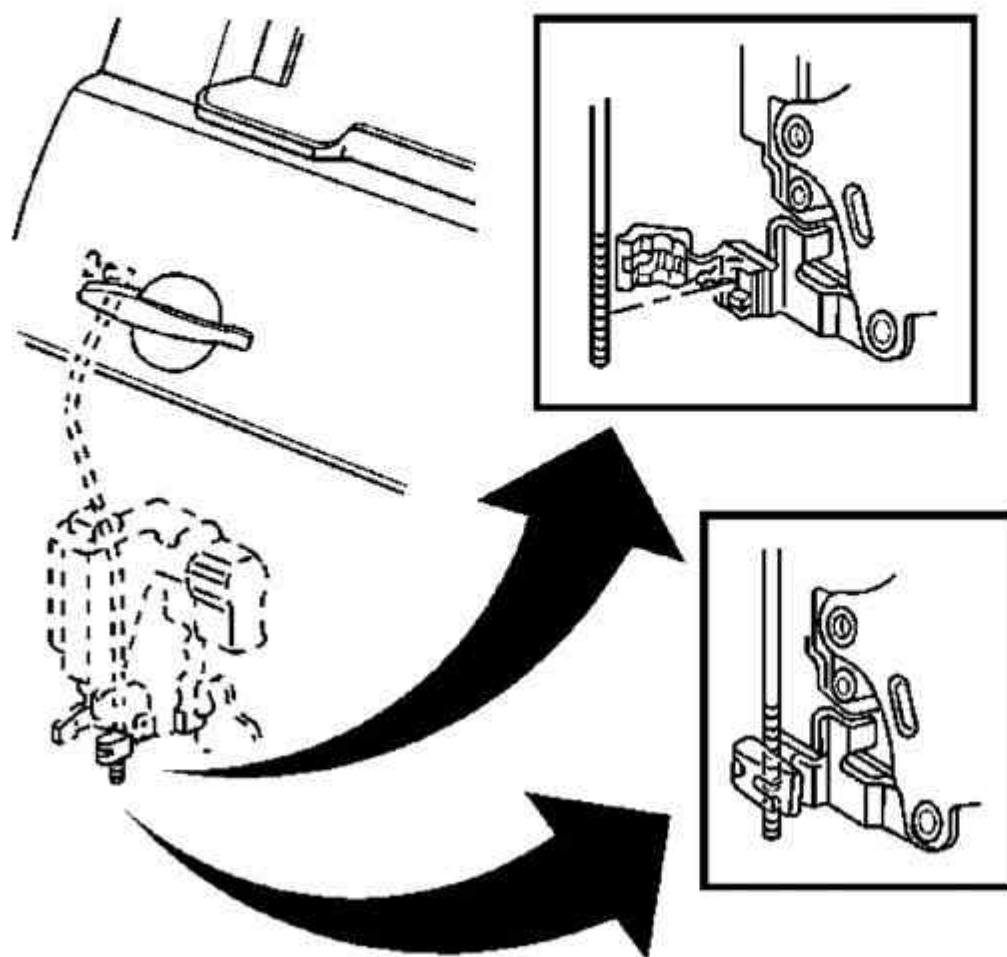


Fig. 27: View Of Handle Rod To Lock Clip
Courtesy of GENERAL MOTORS CORP.

IMPORTANT: The outside handles have adjustable outside handle lock rods. This allows for adjustment of the amount of travel needed in order to operate the outside handle.

When servicing a vehicle with adjustable outside handle lock rods, remove all free play between the outside handle and the lock. Also, do not operate the outside handle before these connections are made.

4. Open the outside handle rod to lock clip located on the door lock.

The door handle rod should be loose from the lock.

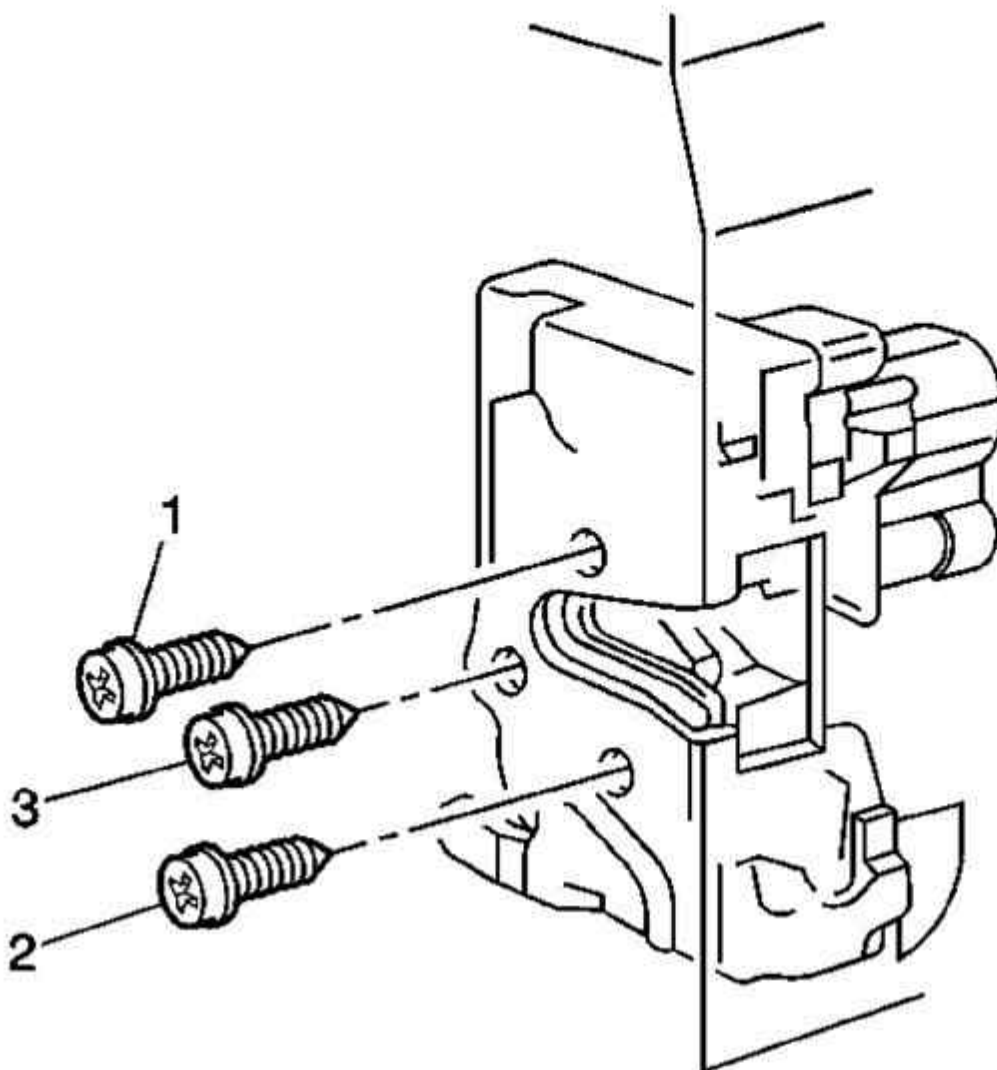


Fig. 28: Identifying Door Lock Components
Courtesy of GENERAL MOTORS CORP.

5. Remove the screws (1, 3, 2) securing the lock to the door.
6. Remove the door lock and cable/rod through the access hole in the door inner panel.
7. Disconnect the electrical connector from the lock by pulling out the tab.
8. Remove the door lock and cable from the lock.

Installation Procedure

1. Install the door lock and cable to the lock.
2. Connect the electrical connector to the lock by pushing in on the tab.
3. Install the lock and cable/rod through the access hole in the inner door panel.

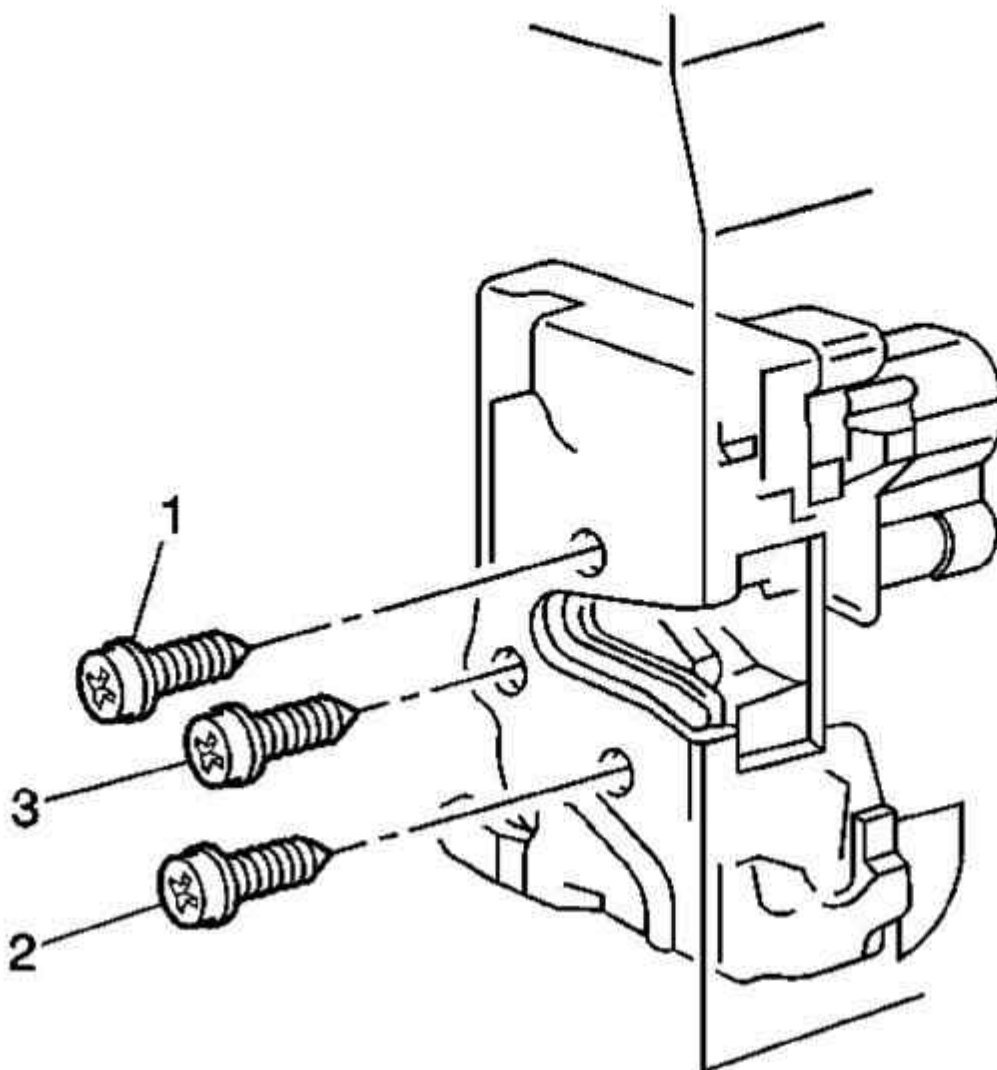


Fig. 29: Identifying Door Lock Components
Courtesy of GENERAL MOTORS CORP.

4. Install the screws (1, 3, 2) securing the lock to the door.

NOTE: Refer to Fastener Notice .

5. Install the top screw first (1) then the bottom (2) and lastly the middle screw (3).

Tighten: Tighten the screws to 10 N.m (89 lb in).

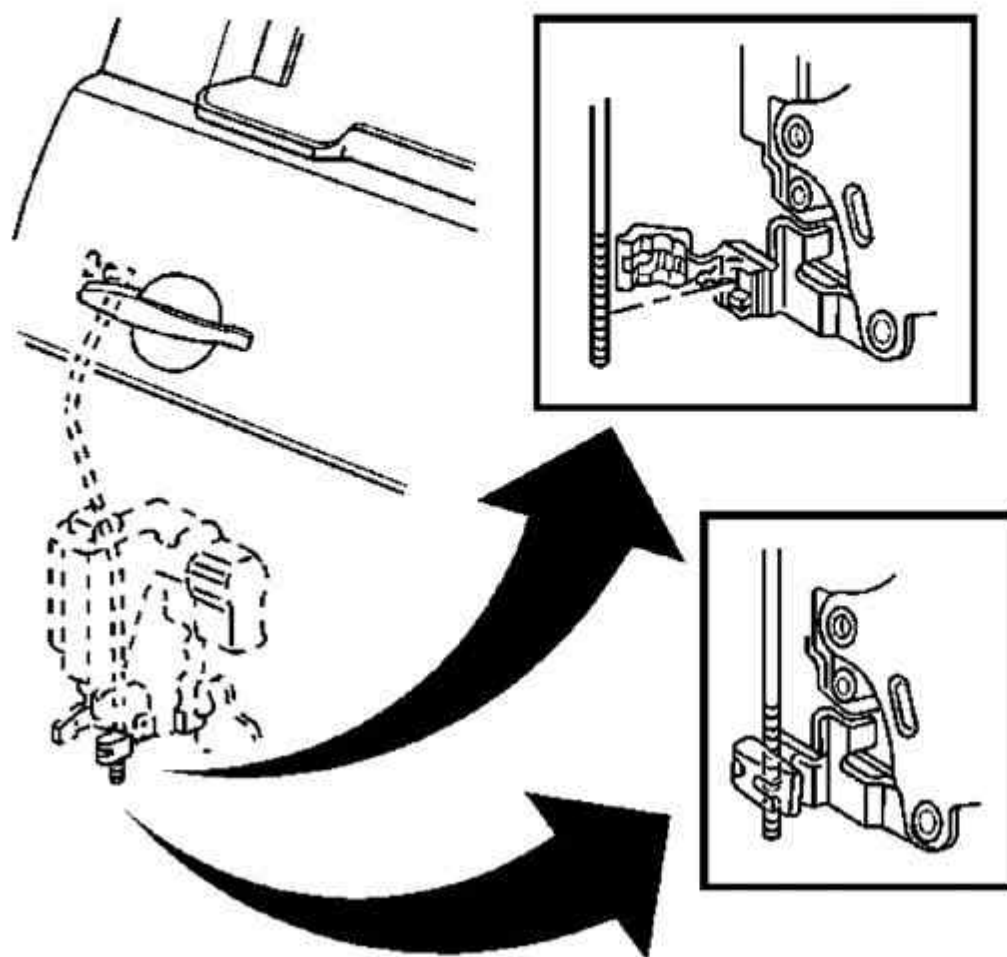


Fig. 30: View Of Handle Rod To Lock Clip
Courtesy of GENERAL MOTORS CORP.

6. Install the outside handle rod into the clip.
7. Close the clip over the outside handle rod.
8. Inspect the door for proper operation.
9. Install the rear door window lower rear run channel. Refer to **Rear Side Door Window Channel Replacement**.
10. Install the rear door water deflector. Refer to **Rear Side Door Water Deflector Replacement**.
11. Install the rear door trim panel. Refer to **Rear Side Door Trim Panel Replacement**.

DOOR STRIKER ANCHOR PLATE REPLACEMENT

Removal Procedure

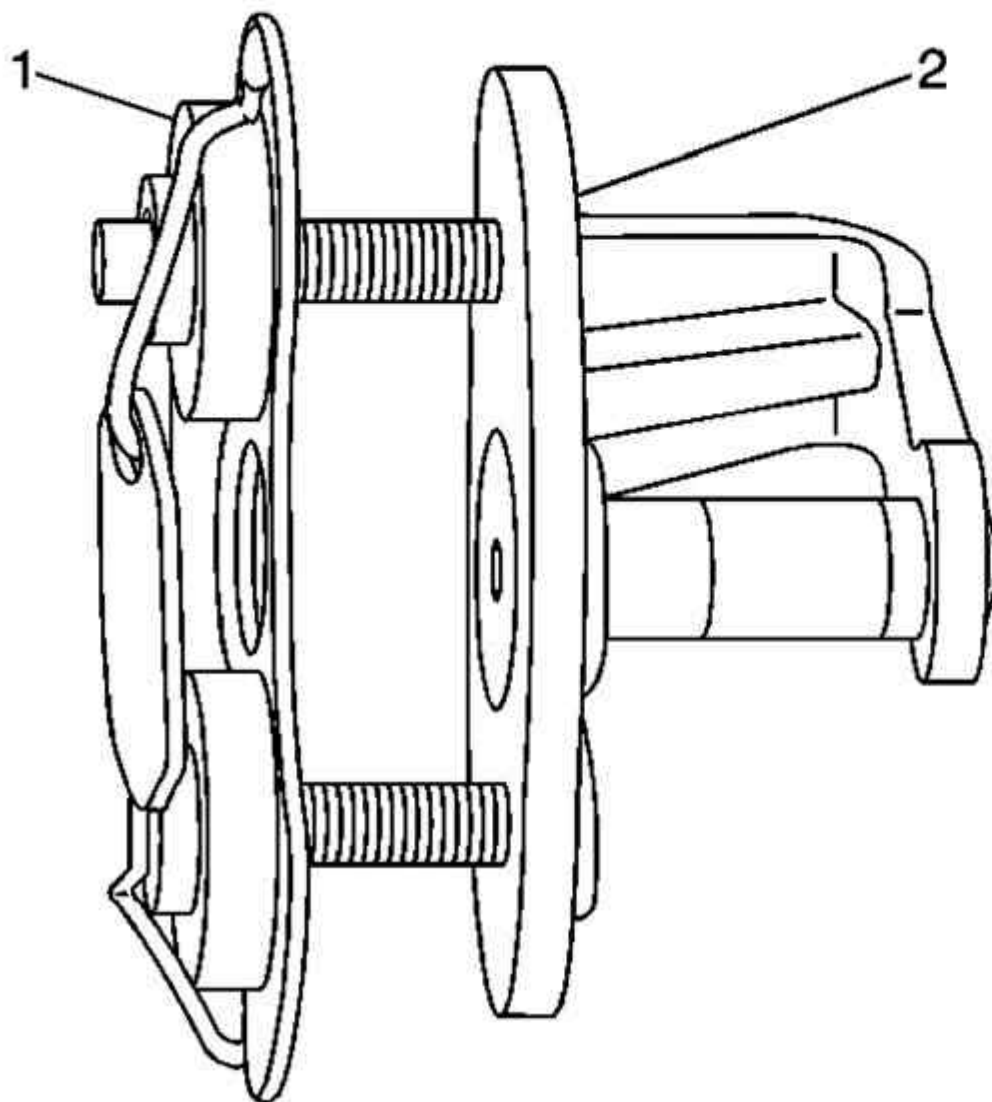


Fig. 31: View Of Door Striker & Door Opening
Courtesy of GENERAL MOTORS CORP.

IMPORTANT: This procedure covers the removal and installation of the front and the rear door strikers.
It will be necessary to remove the following trim when replacing the front or the rear striker.

IMPORTANT: When the striker bolts have been removed, the striker anchor plate will slip down in the door pillar or quarter panel and the trim will need to be removed to gain access.

1. Remove the rear quarter lower trim. Refer to [Rear Quarter Lower Trim Panel Replacement](#).
2. Remove the lower center pillar trim. Refer to [Center Pillar Lower Trim Panel Replacement](#).
3. Mark the position of the striker with a grease pencil.
4. Remove the screws from the door striker.
5. Remove the striker (2).

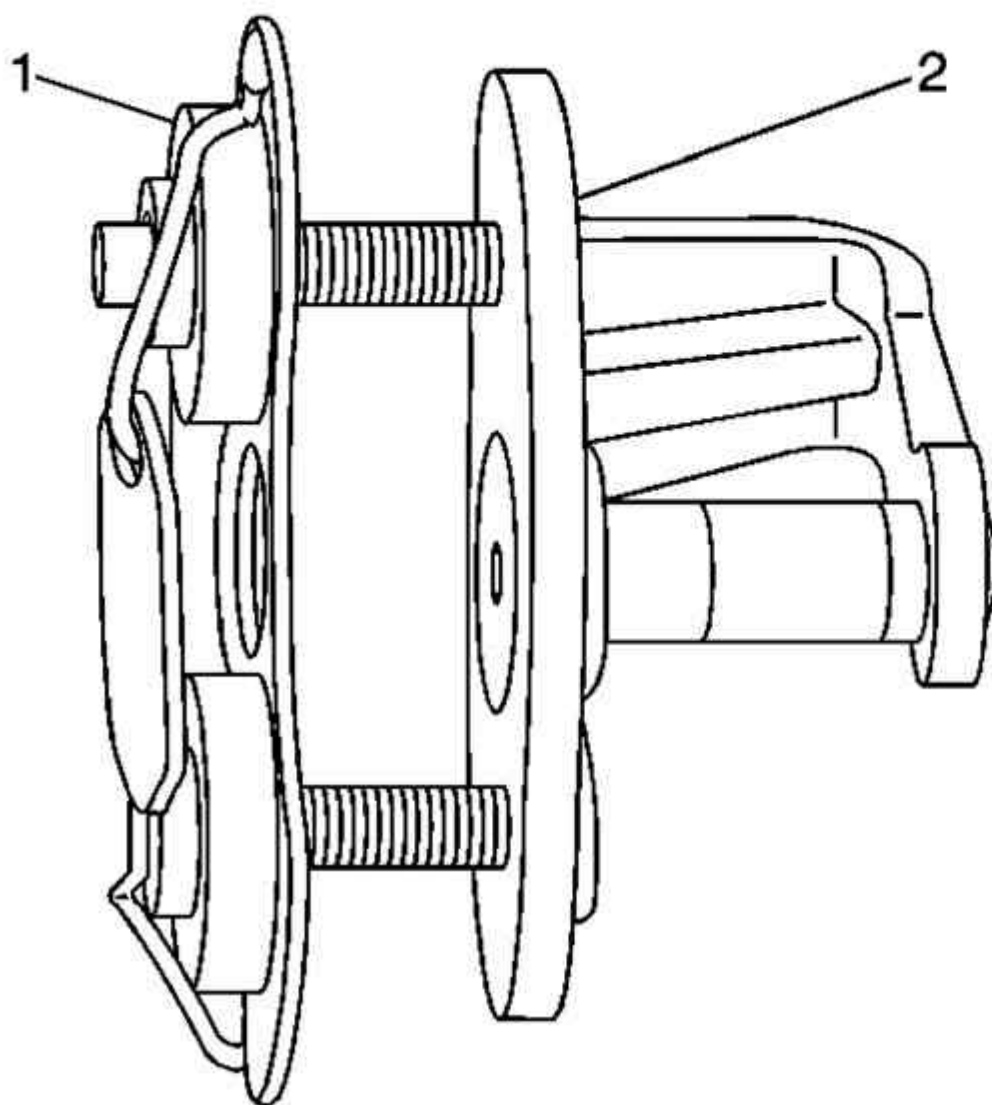


Fig. 32: View Of Door Striker & Door Opening
Courtesy of GENERAL MOTORS CORP.

1. Install the striker (2) to the door opening.

Align the striker to the alignment marks.

NOTE: Refer to Fastener Notice .

2. Install the screws to the striker.

Tighten: Tighten the screws to 20 N.m (15 lb ft).

3. Adjust door striker. Refer to Door Lock Striker Adjustment.
4. Inspect the door for proper operation.
5. Install the front or the rear trim if removed.
6. Install the rear quarter lower trim panel. Refer to Rear Quarter Lower Trim Panel Replacement .
7. Install the lower center pillar trim. Refer to Center Pillar Lower Trim Panel Replacement .

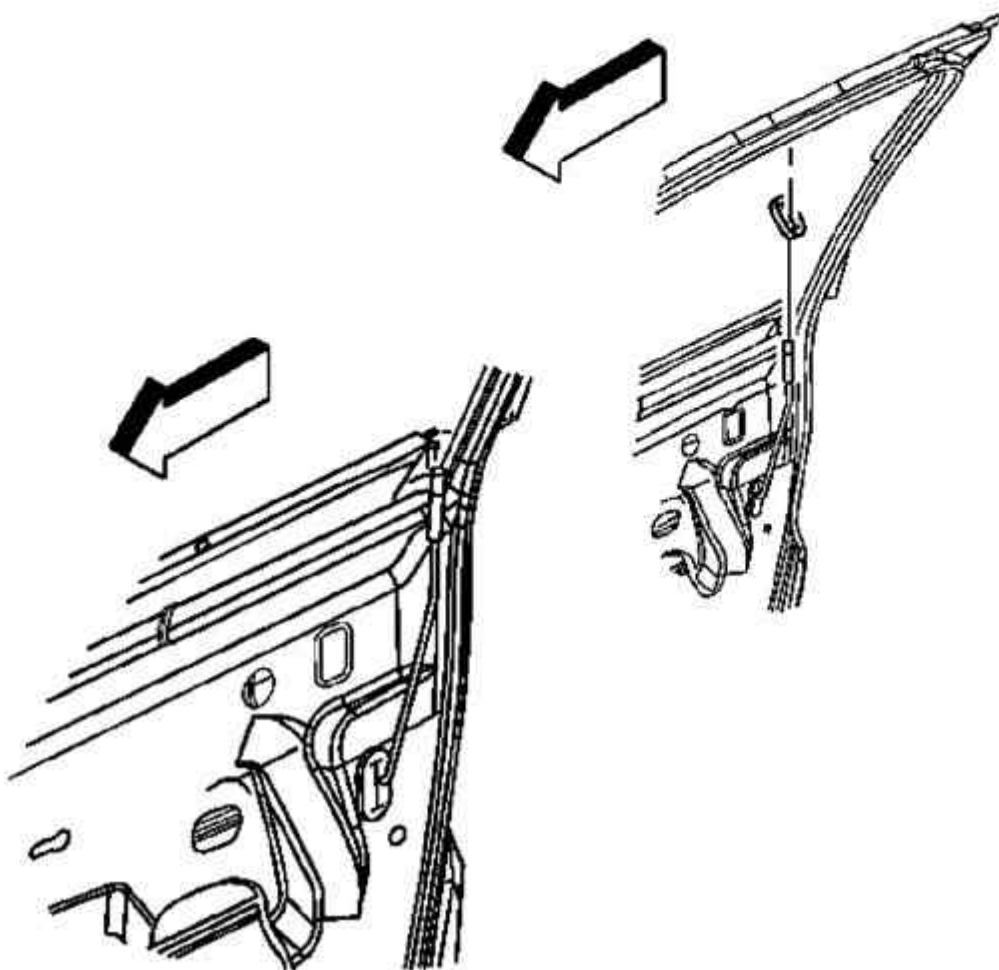
Removal Procedure

Fig. 33: View Of Front Door Locking Rod
Courtesy of GENERAL MOTORS CORP.

1. Remove the front door trim panel. Refer to **Front Side Door Trim Panel Replacement**.
2. Remove the front door water deflector. Refer to **Front Side Door Water Deflector Replacement**.
3. Remove the front door lock. Refer to **Front Side Door Lock Replacement**.
4. Remove the inside door handle locking rod from the door lock.

Installation Procedure

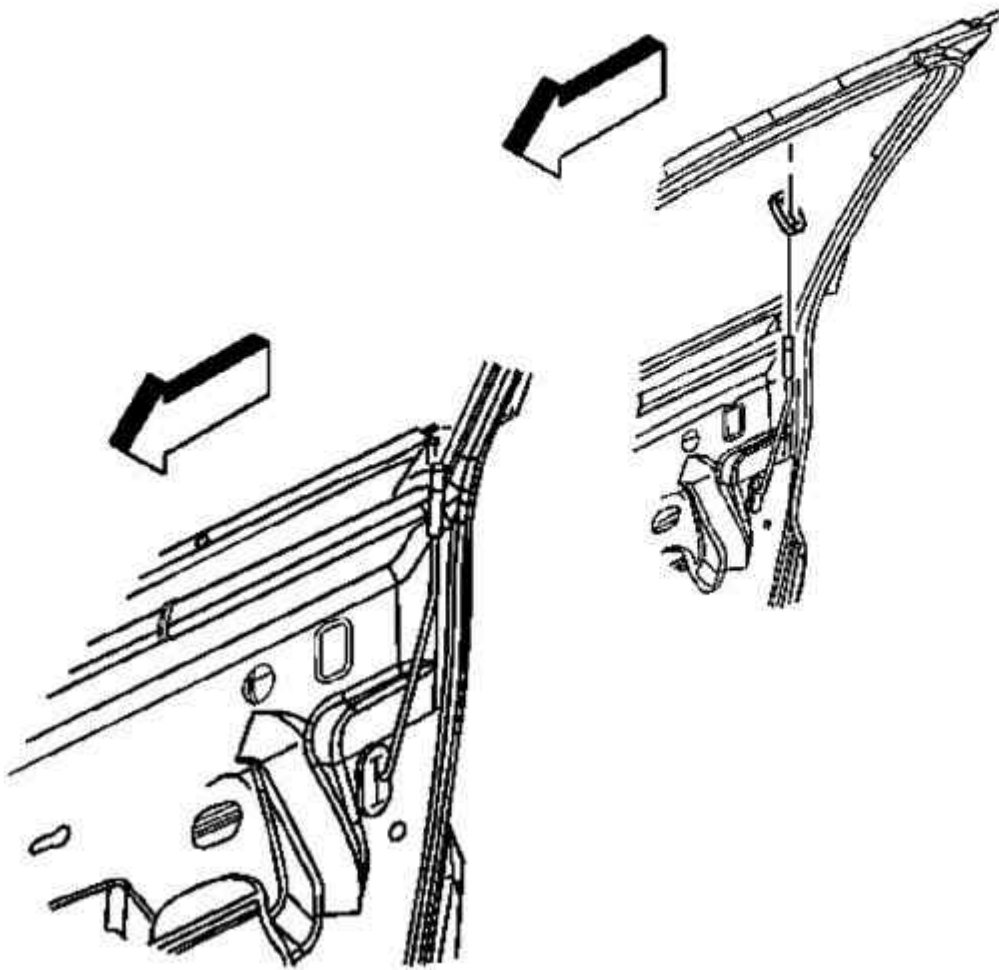


Fig. 34: View Of Front Door Locking Rod
Courtesy of GENERAL MOTORS CORP.

1. Install the inside door handle locking rod to the door lock.
2. Install the front door lock. Refer to Front Side Door Lock Replacement.
3. Inspect the door for proper operation.
4. Install the front door water deflector. Refer to Front Side Door Water Deflector Replacement.
5. Install the front door trim panel. Refer to Front Side Door Trim Panel Replacement.

DOOR HANDLE ROD ADJUSTMENT - FRONT OUTSIDE

Removal Procedure

IMPORTANT: The outside handles have adjustable outside handle lock rods. This allows for adjustment of the amount of travel needed in order to operate the outside handle.

When servicing a vehicle with adjustable outside handle lock rods, remove all free play between the outside handle and the lock. Also, do not operate the outside handle before these connections are made.

1. Remove the front door trim panel. Refer to Front Side Door Trim Panel Replacement.
2. Remove the front water deflector, as necessary. Refer to Front Side Door Water Deflector Replacement.
3. Raise the window to the full up position.

4. Apply masking tape around the outside door handle.

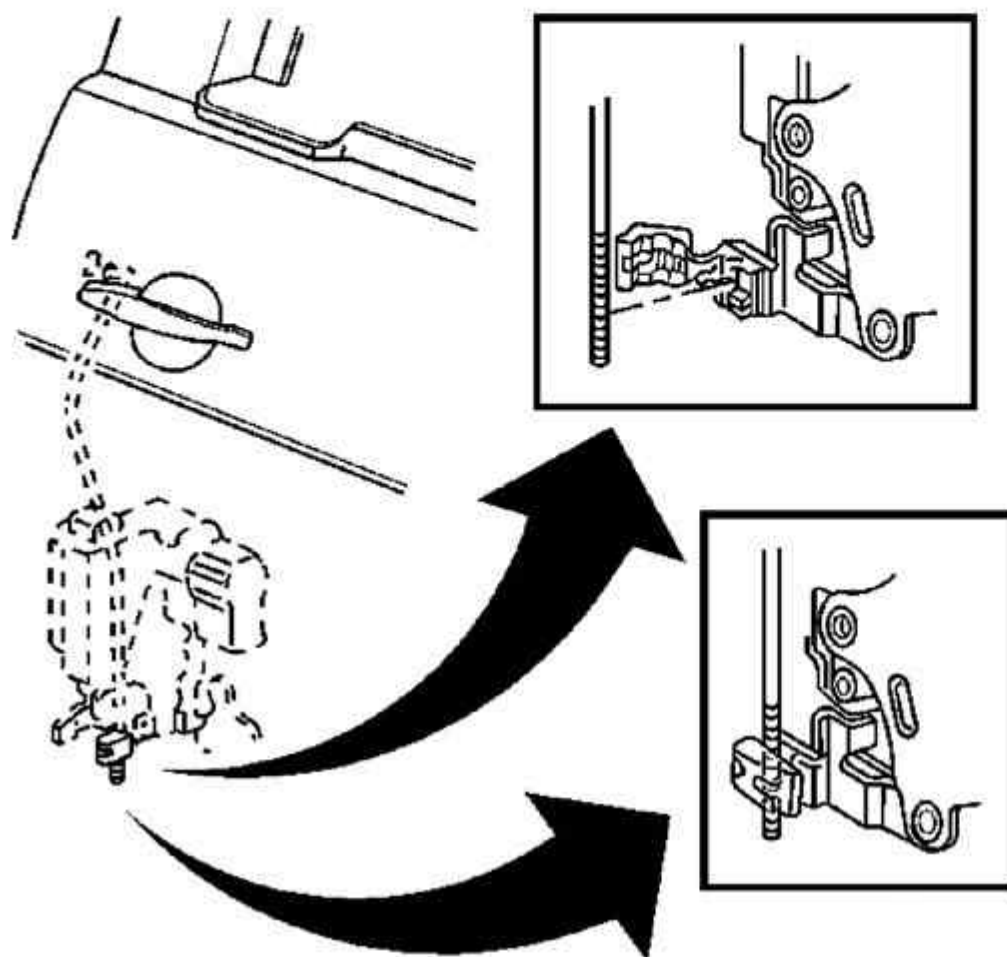


Fig. 35: View Of Handle Rod To Lock Clip
Courtesy of GENERAL MOTORS CORP.

5. Open the outside door handle rod to lock clip located on the door lock.

The outside door handle rod should be loose from the lock.

6. Adjust the rod as needed.
7. Close the clip cover over the outside handle rod.

Installation Procedure

1. Inspect the door for proper operation.
2. Install the front door water deflector as needed. Refer to Front Side Door Water Deflector Replacement.
3. Install the front door trim panel. Refer to Front Side Door Trim Panel Replacement.

DOOR HANDLE ROD REPLACEMENT - FRONT OUTSIDE

Removal Procedure

IMPORTANT: The outside handles have adjustable outside handle lock rods. This allows for adjustment of the amount of travel needed in order to operate the outside handle.

When servicing a vehicle with adjustable outside handle lock rods, remove all free play between the outside handle and the lock. Also, do not operate the outside handle before these connections are made.

1. Remove the front door trim panel. Refer to Front Side Door Trim Panel Replacement.
2. Remove the front door water deflector. Refer to Front Side Door Water Deflector Replacement.
3. Raise the window to the full upright position.

NOTE: Refer to PAINT DAMAGE NOTICE.

4. Apply masking tape around the outside door handle.

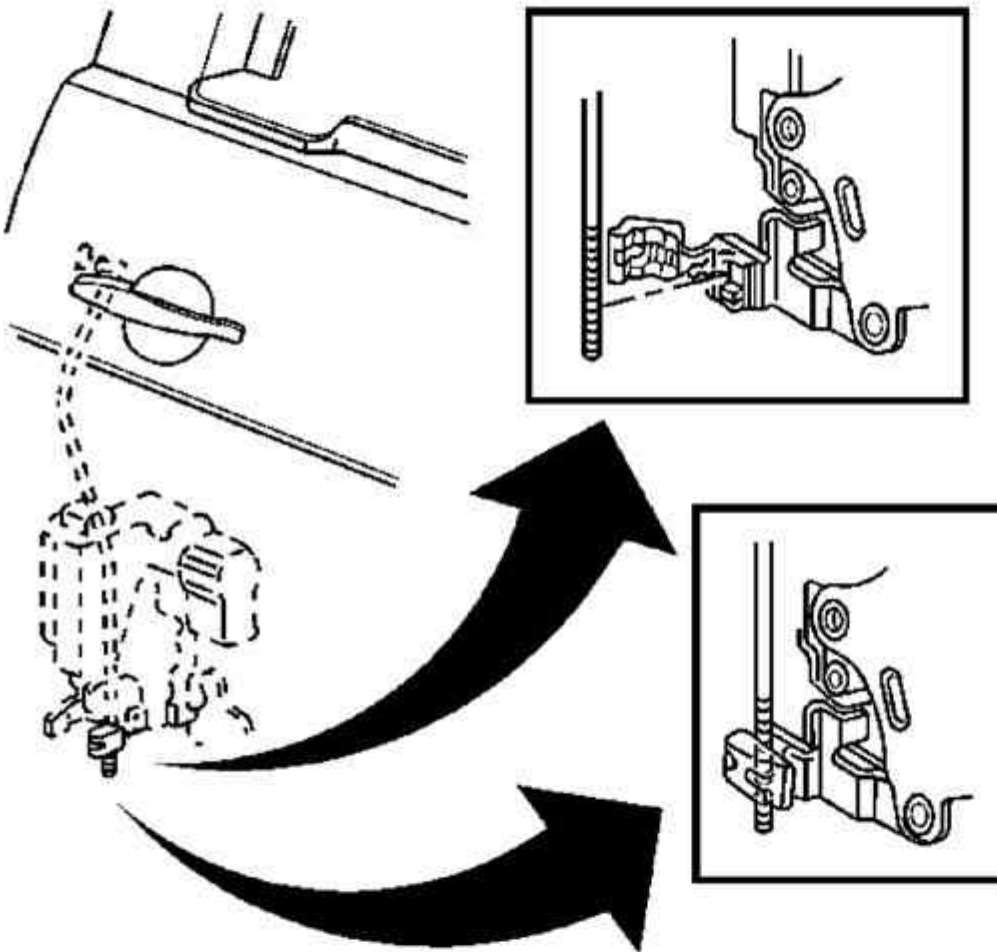


Fig. 36: View Of Handle Rod To Lock Clip
Courtesy of GENERAL MOTORS CORP.

5. Open the outside door handle rod to lock clip located on the door lock.
The outside handle rod should be loose from the lock.
6. Remove the outside door handle. Refer to Front Side Door Outside Handle Replacement.

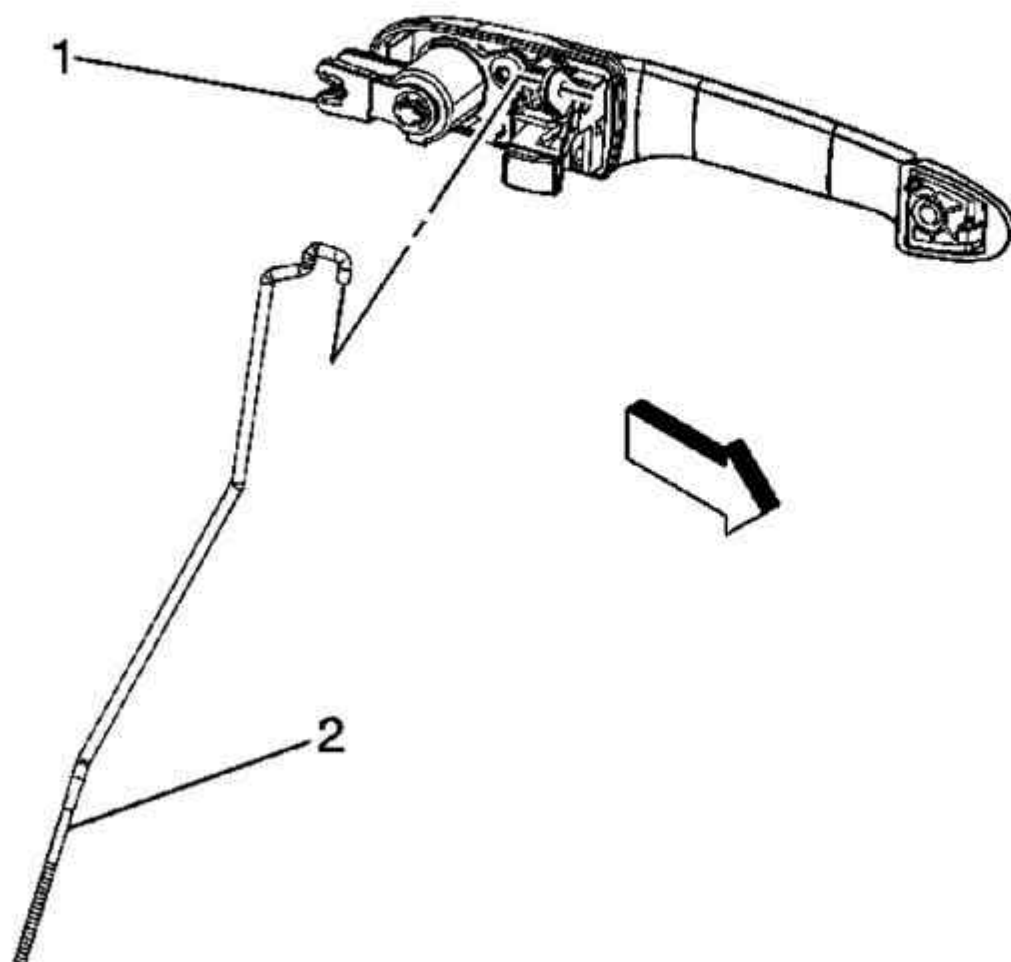


Fig. 37: View Of Outside Handle & Rod
Courtesy of GENERAL MOTORS CORP.

7. Remove the outside handle (1) and the rod (2) from the door.

Installation Procedure

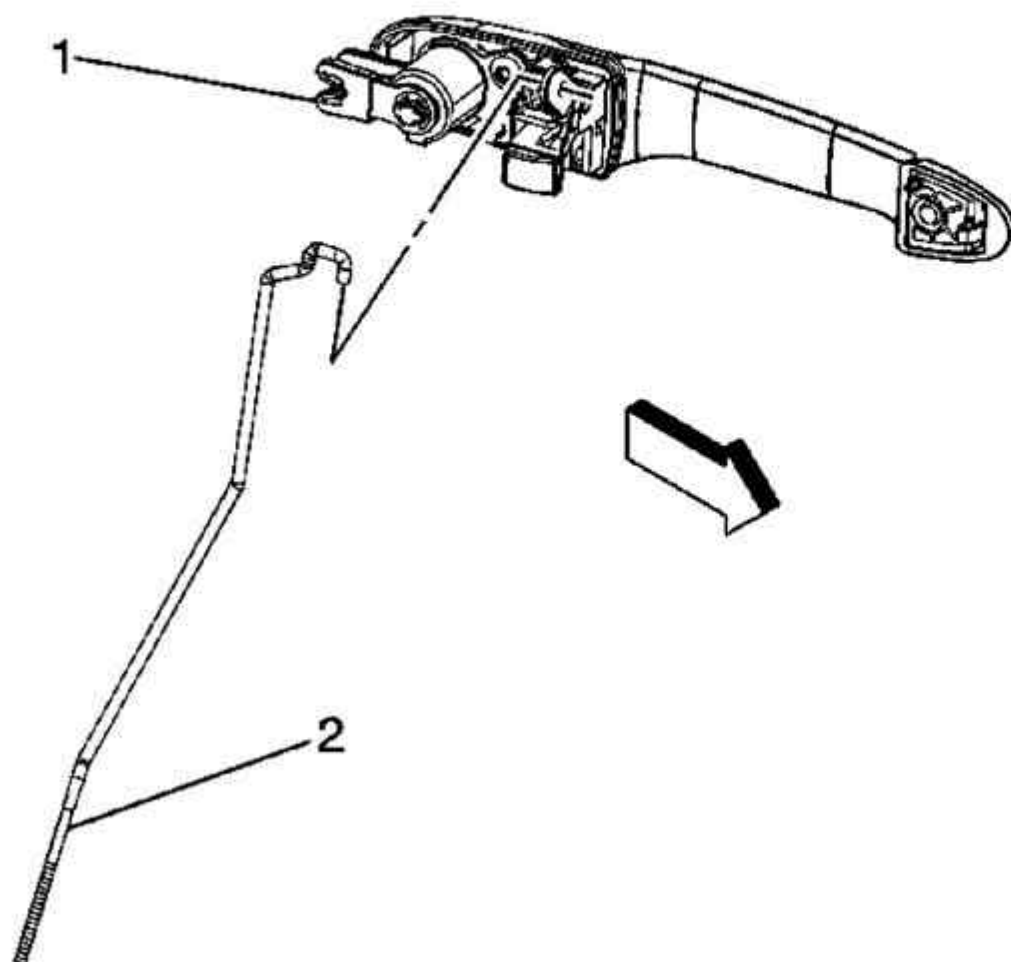


Fig. 38: View Of Outside Handle & Rod
Courtesy of GENERAL MOTORS CORP.

1. Install the outside handle (1) and rod (2) to the door.
2. Install the outside door handle. Refer to **Front Side Door Outside Handle Replacement**.

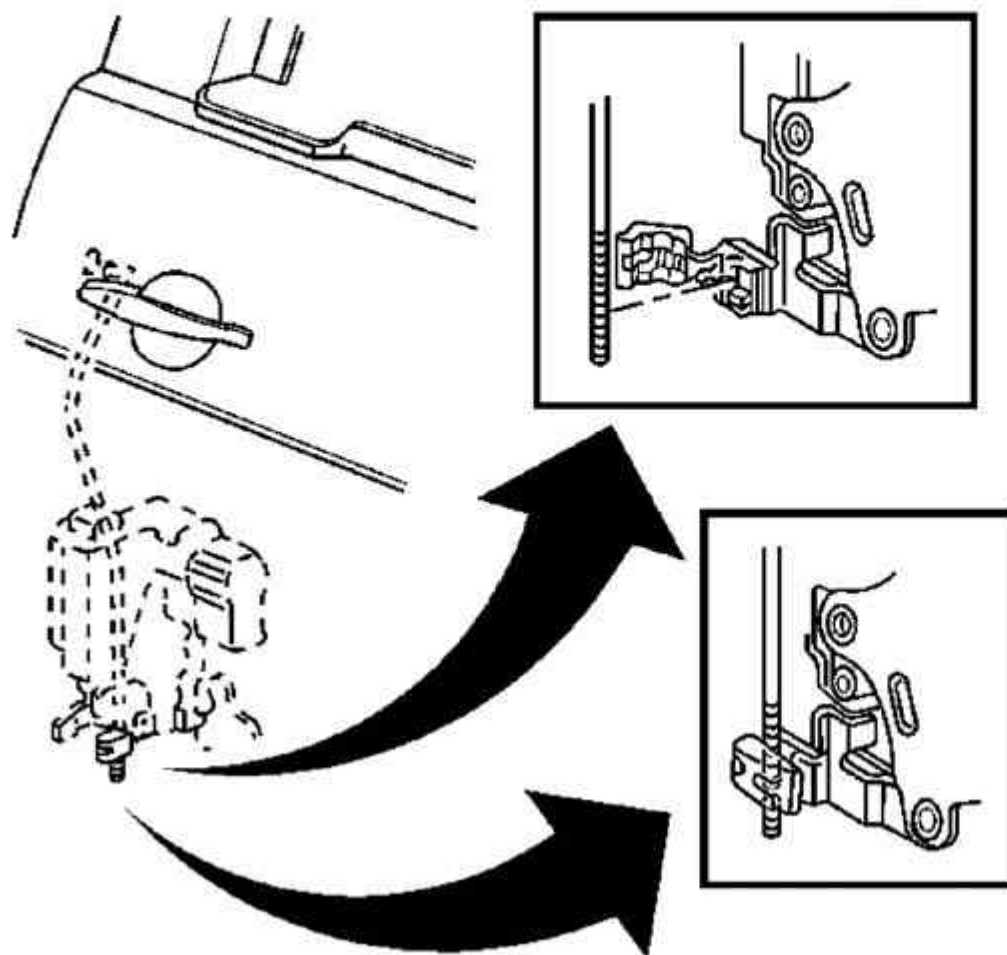


Fig. 39: View Of Handle Rod To Lock Clip
Courtesy of GENERAL MOTORS CORP.

3. Install the outside handle rod into the clip.
4. Close the clip cover over the outside handle rod.
5. Remove the masking tape.
6. Inspect the door for proper operation.
7. Install the front door water deflector. Refer to Front Side Door Water Deflector Replacement.
8. Install the front door trim panel. Refer to Front Side Door Trim Panel Replacement.

DOOR LOCKING ROD/BELLCRANK REPLACEMENT - REAR

Removal Procedure

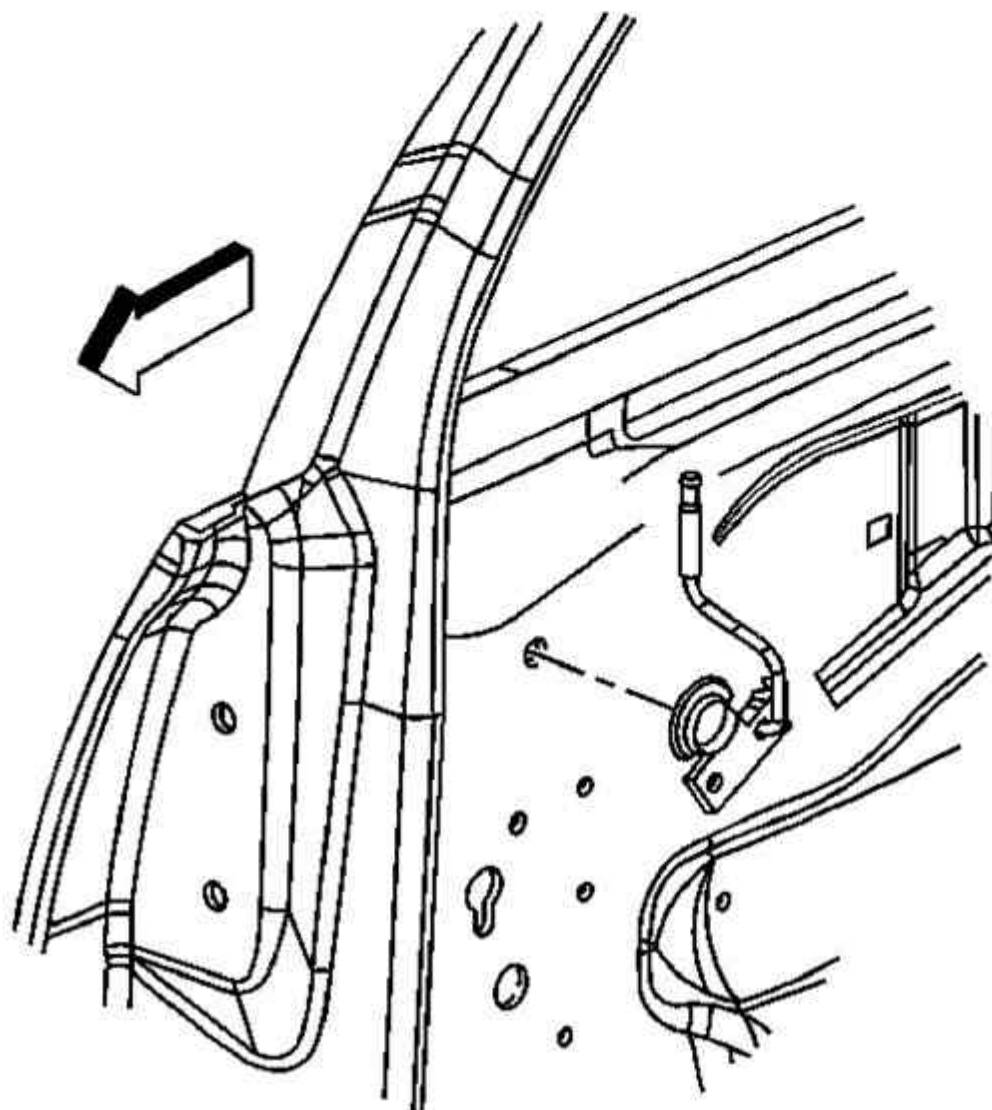


Fig. 40: Identifying Rear Door Locking Rod/Bellcrank
Courtesy of GENERAL MOTORS CORP.

1. Remove the rear door trim panel Refer to **Rear Side Door Trim Panel Replacement**.
2. Remove the bellcrank from the door by releasing the 2 inner retaining clips.
3. Remove both door rods from the bellcrank.

Installation Procedure

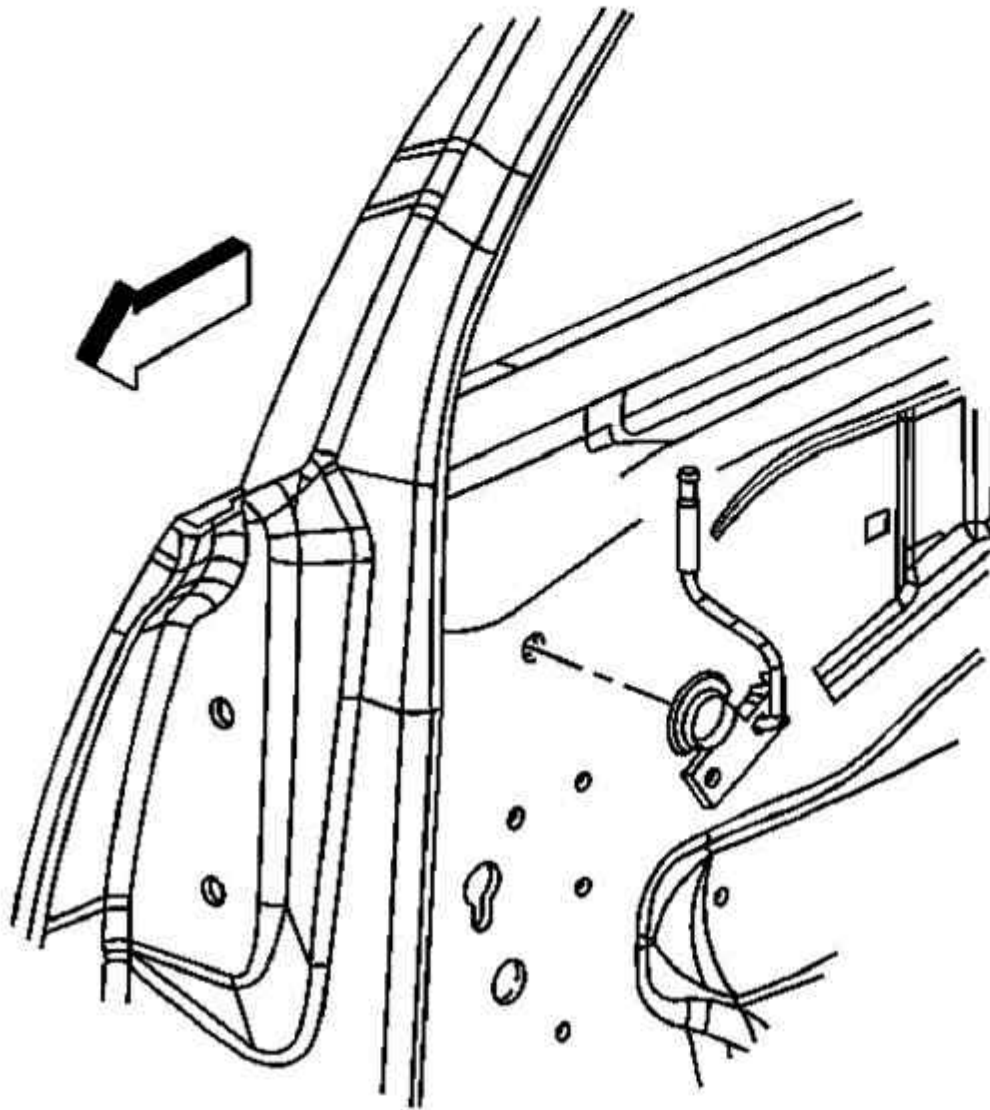


Fig. 41: Identifying Rear Door Locking Rod/Bellcrank
Courtesy of GENERAL MOTORS CORP.

1. Install both door rods to the new bellcrank.
2. Install the bellcrank to the door by snapping it in place.
3. Inspect the door for proper operation.
4. Install the rear door trim panel. Refer to Rear Side Door Trim Panel Replacement.

DOOR HANDLE ROD ADJUSTMENT - REAR OUTSIDE

Removal Procedure

IMPORTANT: The outside handles have adjustable outside handle lock rods. This allows for adjustment of the amount of travel needed in order to operate the outside handle.

When servicing a vehicle with adjustable outside handle lock rods, remove all free play between the outside handle and the lock. Also, do not operate the outside handle before these connections are made.

1. Remove the rear door trim pad. Refer to Rear Side Door Trim Panel Replacement.

2. Remove the rear door water deflector. Refer to Rear Side Door Water Deflector Replacement.

The water deflector does not need to be completely removed.

3. Raise the window to the full upright position.

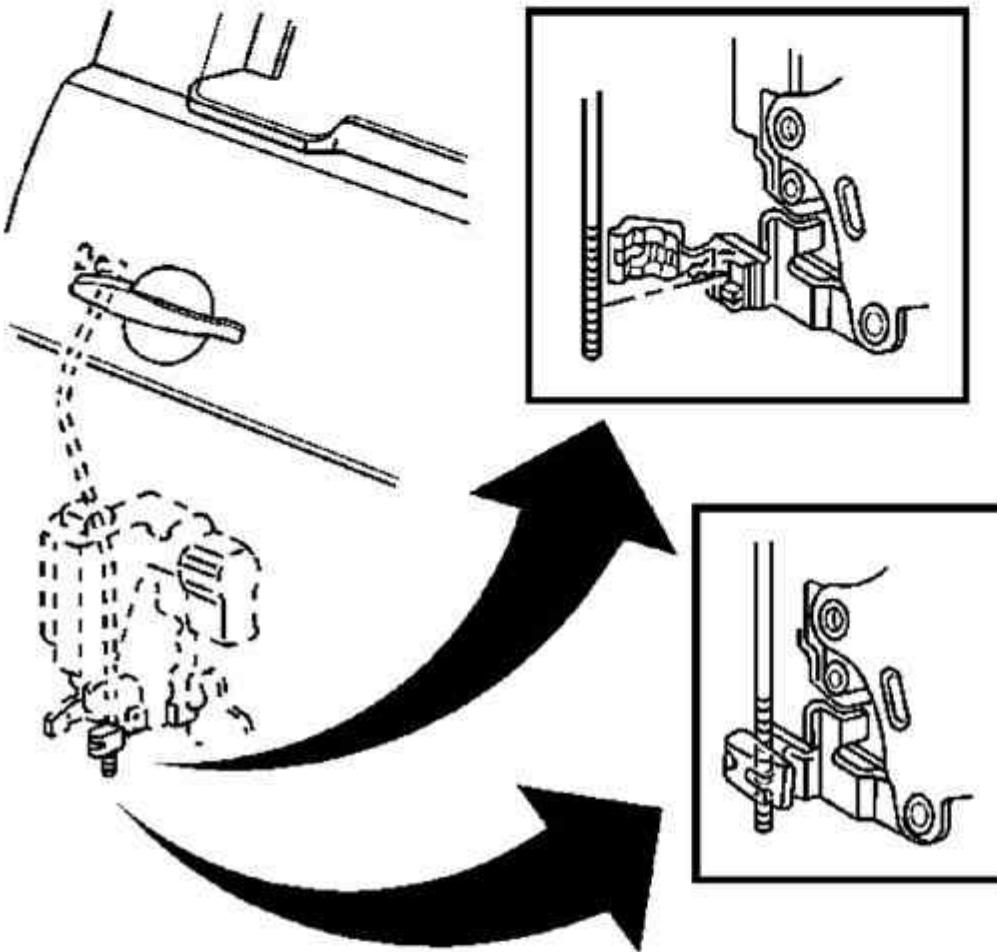


Fig. 42: View Of Handle Rod To Lock Clip
Courtesy of GENERAL MOTORS CORP.

4. Open the outside handle rod to lock clip located on the door lock.
5. Adjust the rod as needed.
6. Close the clip cover over the outside handle rod.

Installation Procedure

1. Inspect the door for proper operation.
2. Remove the rear door water deflector. Refer to Rear Side Door Water Deflector Replacement.
3. Remove the rear door trim pad. Refer to Rear Side Door Trim Panel Replacement.

DOOR HANDLE ROD REPLACEMENT - REAR OUTSIDE

Removal Procedure

IMPORTANT: The outside handles have adjustable outside handle lock rods. This allows for adjustment of the amount of travel needed in order to operate the

outside handle.

When servicing a vehicle with adjustable outside handle lock rods, remove all free play between the outside handle and the lock. Also, do not operate the outside handle before these connections are made.

1. Remove the rear door trim panel. Refer to Rear Side Door Trim Panel Replacement.
2. Remove the rear door water deflector. Refer to Rear Side Door Water Deflector Replacement.
3. Raise the door window to the full up position.

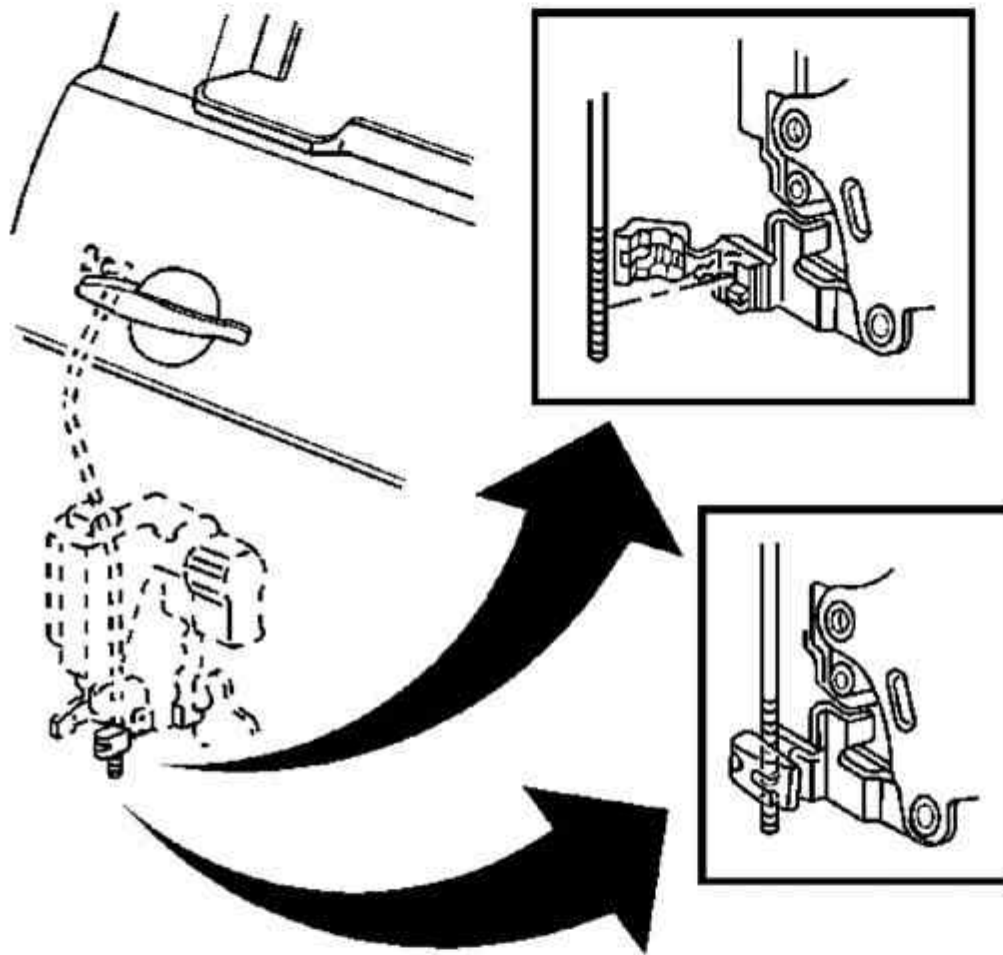


Fig. 43: View Of Handle Rod To Lock Clip
Courtesy of GENERAL MOTORS CORP.

4. Open the outside handle rod to lock clip located on the door lock.
5. Remove the outside door handle. Refer to Front Side Door Outside Handle Replacement.

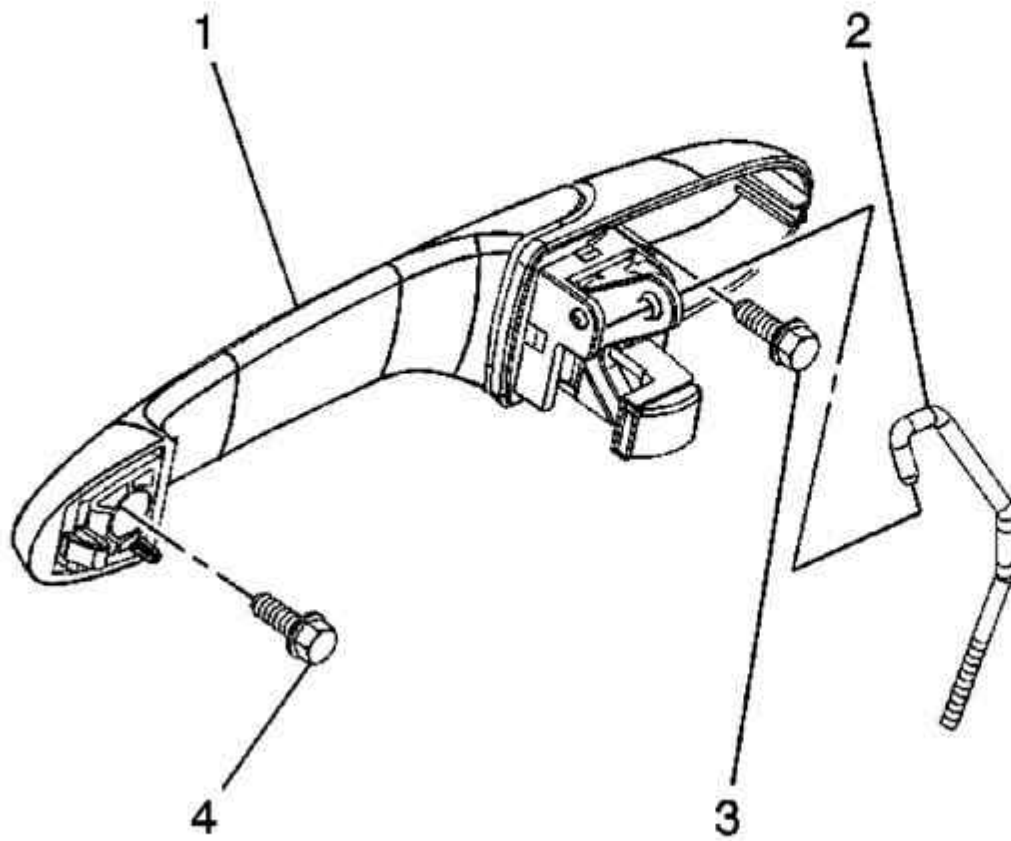


Fig. 44: Identifying Outside Door Handle & Rod
Courtesy of GENERAL MOTORS CORP.

6. Remove the outside door handle (1) and the rod (2) from the door.

Installation Procedure

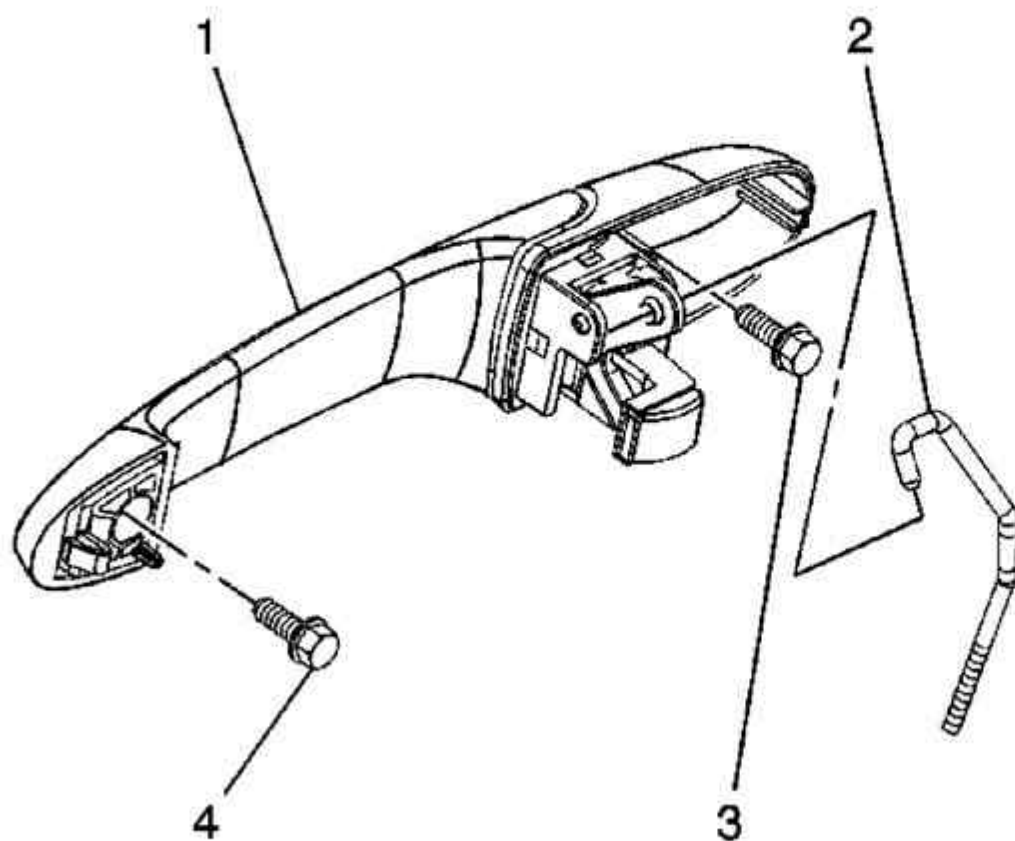


Fig. 45: Identifying Outside Door Handle & Rod
Courtesy of GENERAL MOTORS CORP.

1. Install the outside door handle (1) and the rod (2) to the door.
2. Install the outside door handle. Refer to **Front Side Door Outside Handle Replacement**.

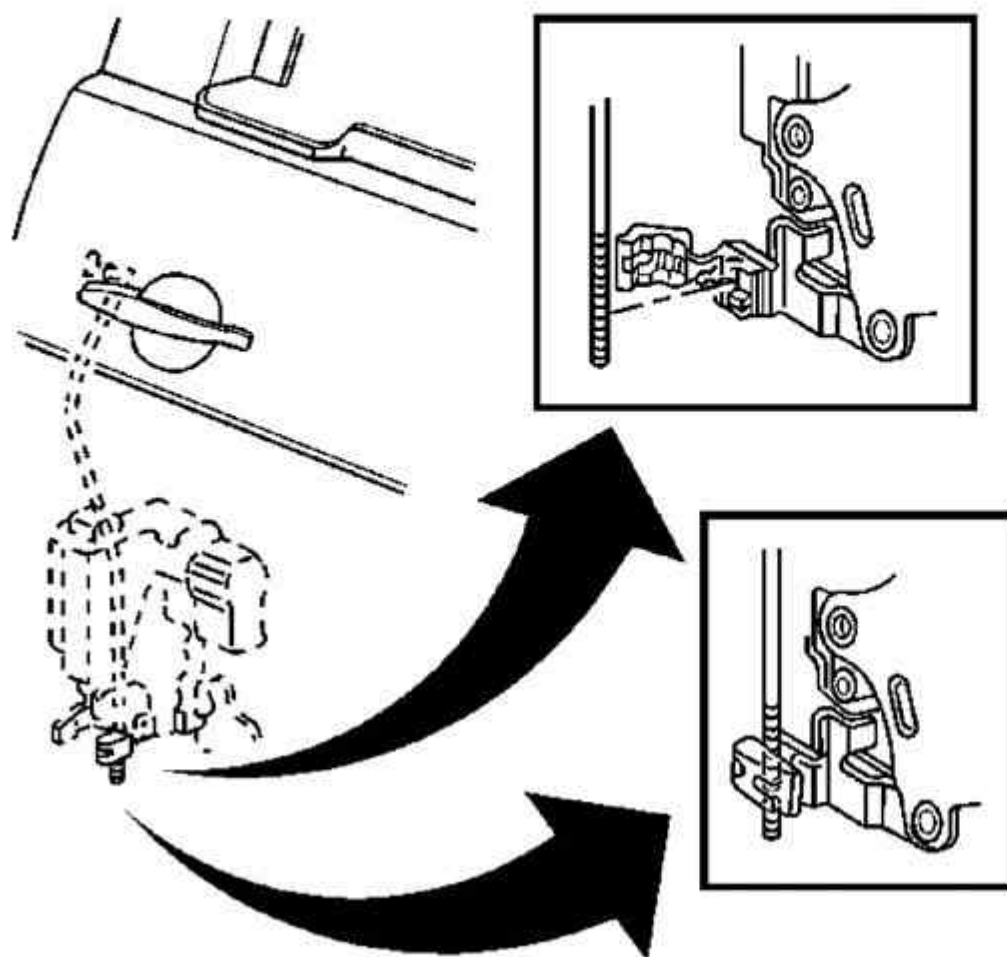


Fig. 46: View Of Handle Rod To Lock Clip
Courtesy of GENERAL MOTORS CORP.

3. Install the outside handle rod into the clip.
4. Close the clip over the outside handle rod.
5. Remove the masking tape.
6. Inspect the door for proper operation.
7. Install the rear door water deflector. Refer to [Rear Side Door Water Deflector Replacement](#).
8. Install the rear door trim panel. Refer to [Rear Side Door Trim Panel Replacement](#).

DOOR LOCK STRIKER ADJUSTMENT

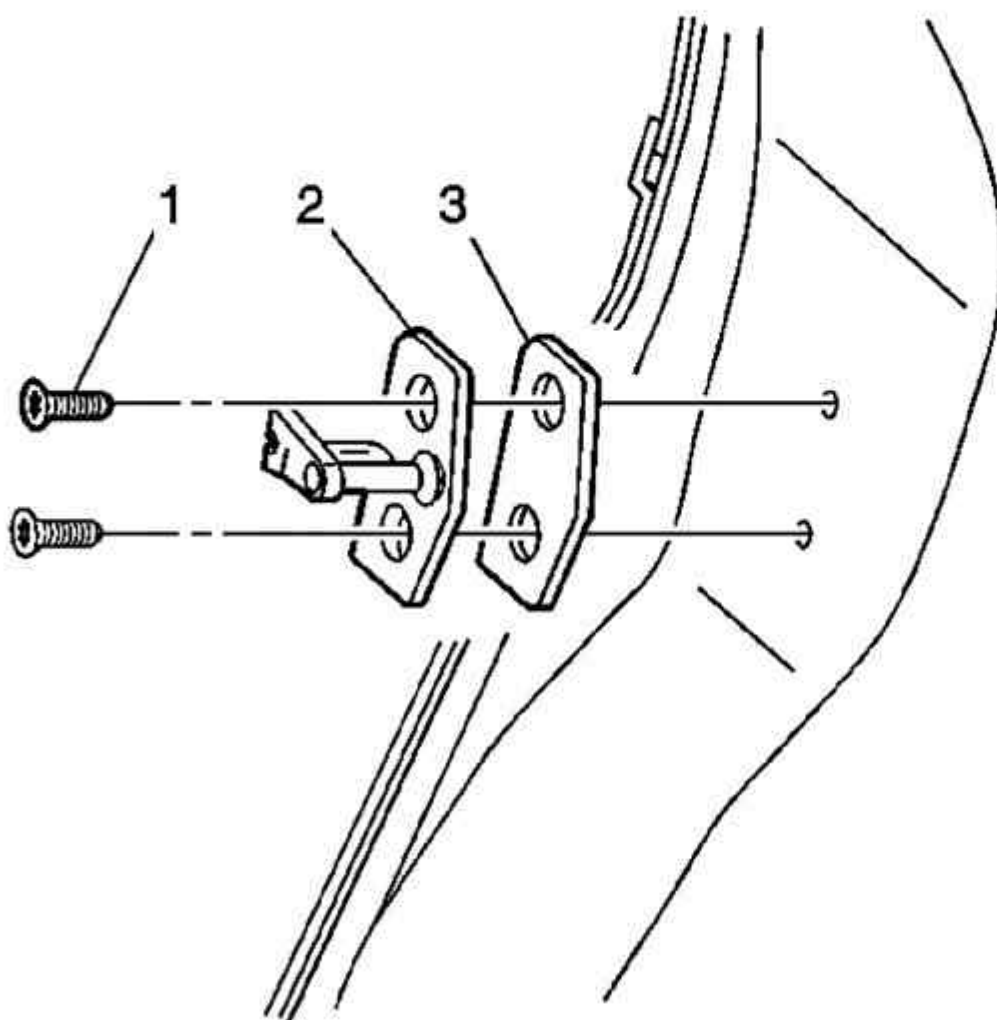


Fig. 47: View Of Striker & Bolts
Courtesy of GENERAL MOTORS CORP.

IMPORTANT: To determine if the striker adjustment is required, proceed as follows.

1. Ensure that the door is properly aligned with the door opening before proceeding with the striker adjustment.
2. Open and close the door on the striker (2). Note if the door drags on the striker causing the door to move upward or downward upon contact with the striker. Also note the closing effort to fully engage the latch.

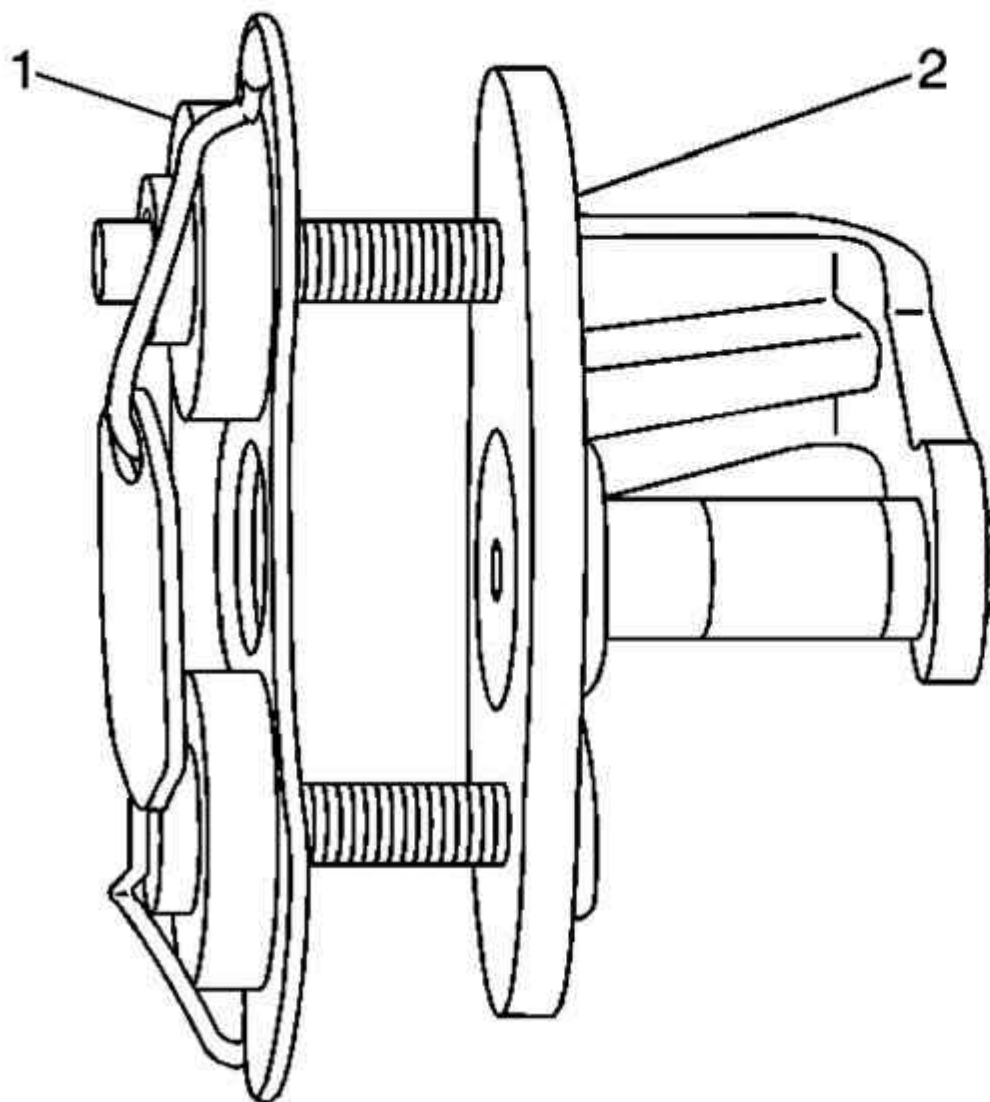


Fig. 48: View Of Door Striker & Door Opening
Courtesy of GENERAL MOTORS CORP.

IMPORTANT: When the striker bolts have been removed, the striker anchor plate (1) will slip down in the door pillar or quarter panel and the trim will need to be removed to gain access.

3. Using a soft marker, mark around the striker (2) for reference of the original position. Loosen the striker screws just enough to allow the movement of the door striker and shims if equipped.
4. Adjust the door striker up or down and inboard or outboard as required.
5. Move the striker to eliminate drag on the striker and door latch and to achieve proper door position within door opening. Start with up/down position, then position the striker to achieve proper alignment to the door opening. Set the in/out adjustment for proper door seal engagement ensuring that the door closing efforts are correct.

NOTE: Refer to FASTENER NOTICE .

6. Adjust the striker and add spacers as required.

Tighten: Tighten the screws to 20 N.m (15 lb ft).

7. Inspect the door for proper operation.
8. Close the door.

REAR COMPARTMENT LID LATCH STRIKER REPLACEMENT

Removal Procedure

1. Pull back the rear compartment trim as required to access the lock striker. Refer to Rear Compartment Trim Panel Replacement.
2. Use a grease pencil to mark the location of the lock striker to the rear compartment for its location at installation.

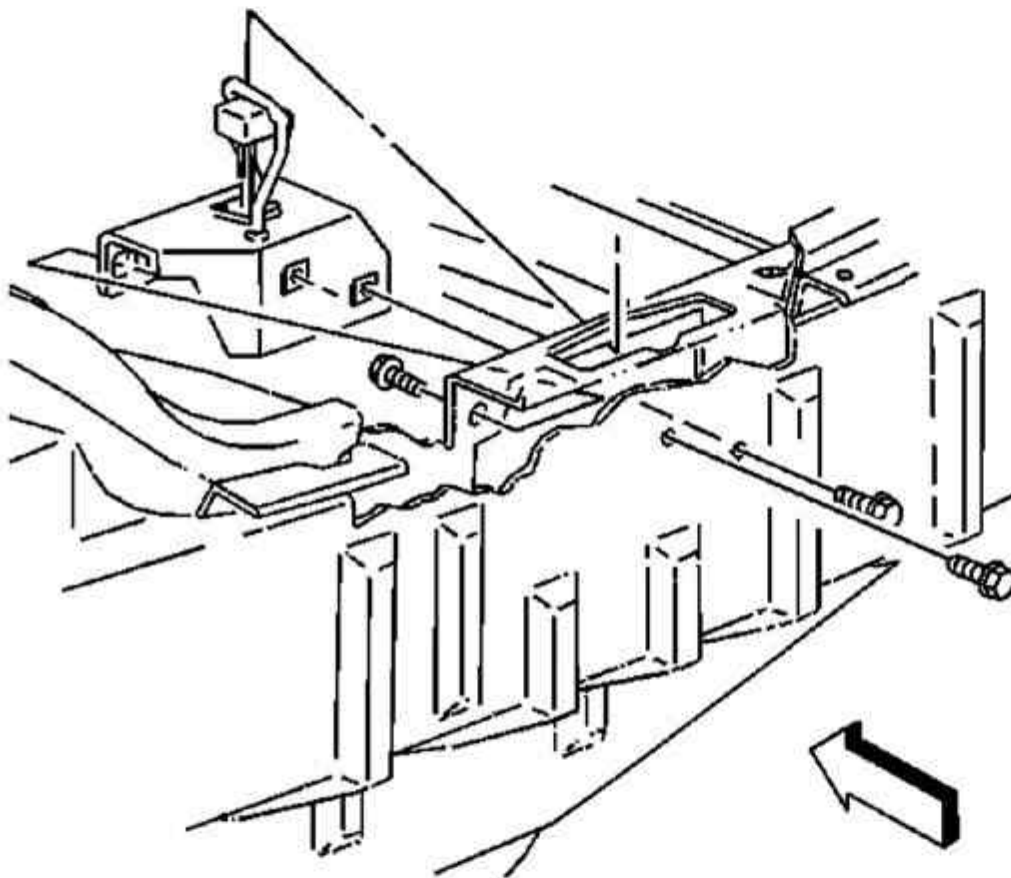


Fig. 49: Identifying Rear Compartment Lid Lock Striker & Bolts
Courtesy of GENERAL MOTORS CORP.

3. Remove the bolt from the rear compartment lid lock striker in the rear compartment.
4. Remove the rear bumper fascia. Refer to Rear Bumper Fascia Replacement.
5. Remove the rear compartment lid lock striker bolts from under the rear bumper fascia above the impact bar to the body panel.
6. Remove the rear compartment lid lock striker from the rear compartment body panel.

Installation Procedure

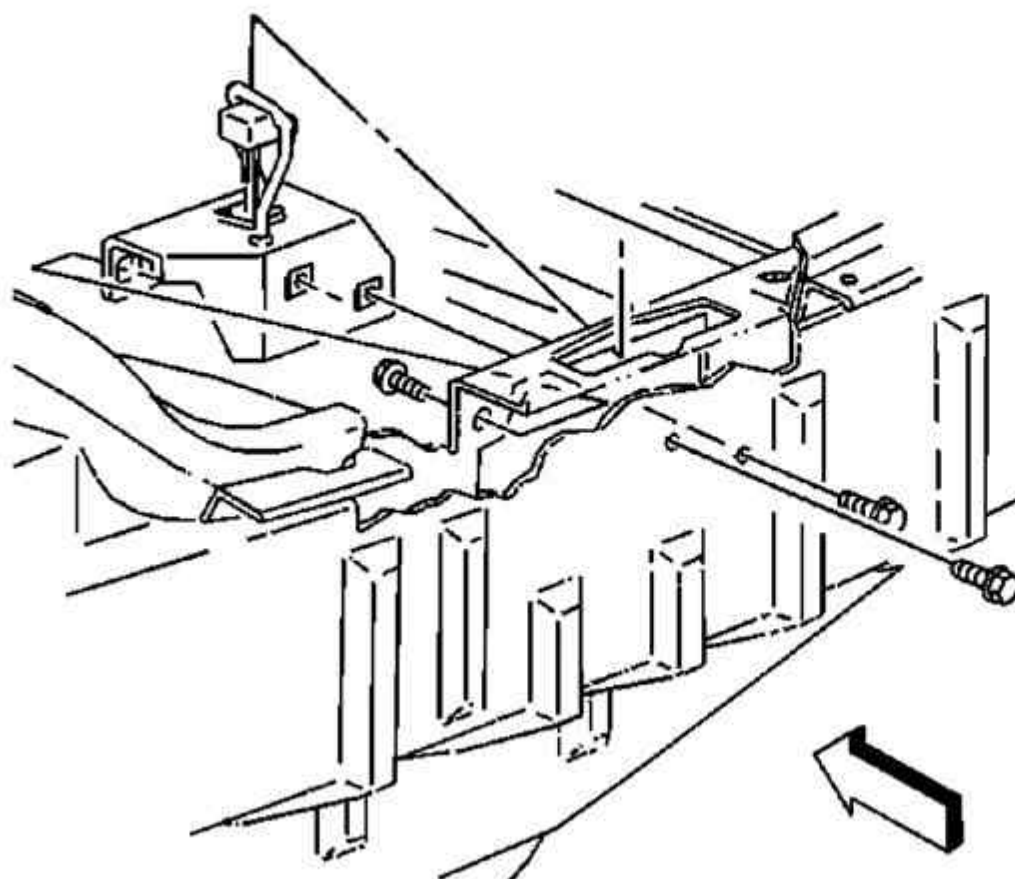


Fig. 50: Identifying Rear Compartment Lid Lock Striker & Bolts
 Courtesy of GENERAL MOTORS CORP.

1. Position the rear compartment lid lock striker to the rear compartment body panel.
2. Install the bolts in the center hole in the rear compartment lid lock striker under the rear bumper fascia above the impact bar to the rear body panel.
3. Partially tighten the bolt to allow for adjustment of the rear compartment lid lock striker.
4. Close the rear compartment lid and adjust the rear compartment lid striker as required.

NOTE: Refer to Fastener Notice .

5. Install the other rear compartment lid lock striker bolts to under the rear bumper fascia above the impact bar to the rear body panel.

Tighten: Tighten the bolts to 16 N.m (12 lb ft).

6. Install the bolts to the lock striker in the rear compartment.

Tighten: Tighten the bolts to 16 N.m (12 lb ft).

7. Install the rear bumper fascia. Refer to Rear Bumper Fascia Replacement .
8. Install the rear compartment trim. Refer to Rear Compartment Trim Panel Replacement .
9. Close the rear compartment.

DOOR LOCK SWITCH REPLACEMENT

Removal Procedure

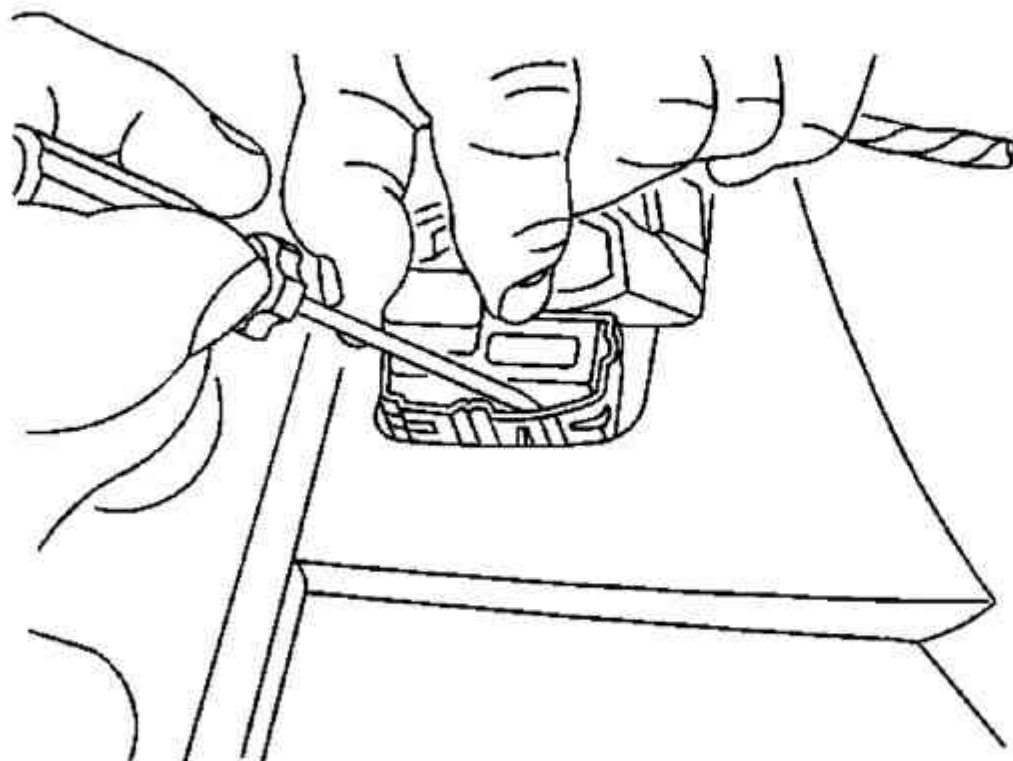


Fig. 51: Identifying Power Window/Door Lock Switch
Courtesy of GENERAL MOTORS CORP.

1. Remove the door trim panel. Refer to **Front Side Door Trim Panel Replacement**.
2. Disconnect the electric connector to the door switch.
3. Use a flat-bladed tool to remove the lock switch from the trim panel.

Installation Procedure

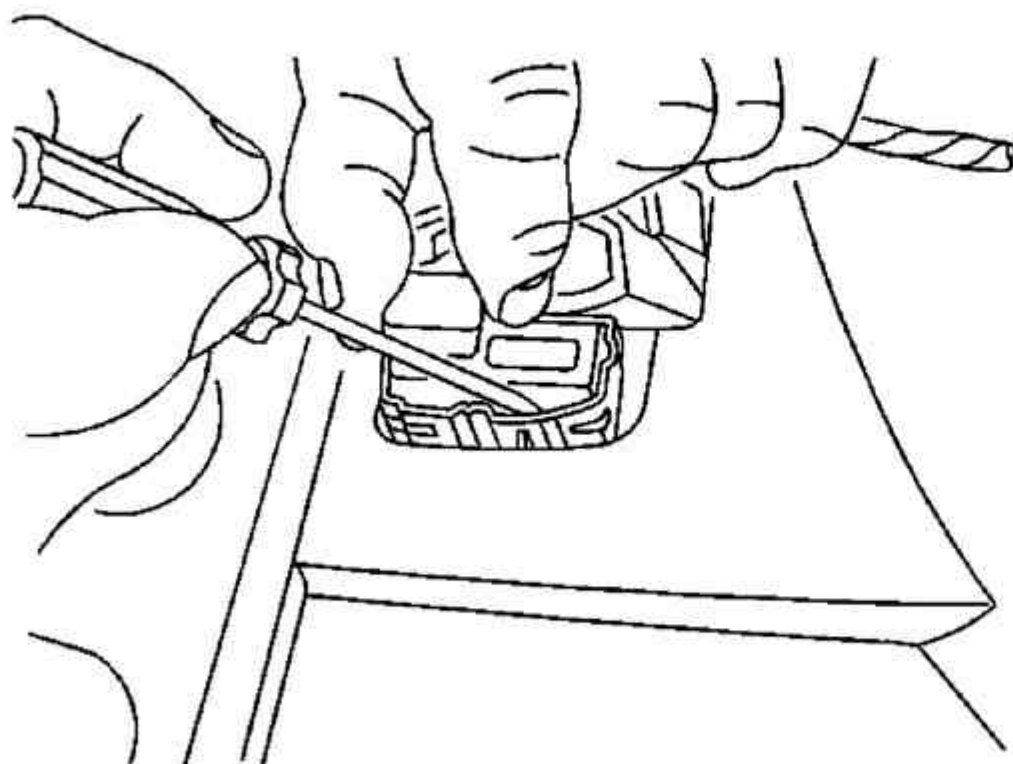


Fig. 52: Identifying Power Window/Door Lock Switch
Courtesy of GENERAL MOTORS CORP.

1. Press the door lock switch into the door trim panel.
2. Connect the electrical connector to the switch.
3. Install the door trim panel. Refer to **Front Side Door Trim Panel Replacement**.

DESCRIPTION AND OPERATION

DOOR AJAR INDICATOR DESCRIPTION AND OPERATION

The audio amplifier activates the door ajar audible warning as requested by the instrument panel cluster (IPC). The IPC sends a serial data message to the radio indicating the chime frequency. The door ajar warning sounds and the door ajar message is displayed in the driver information center (DIC) when the following occurs:

- The IPC determines that the driver door is open and the signal circuit is low. The IPC also displays the appropriate door ajar message in the DIC.
- The vehicle is not in PARK. The IPC receives a serial data message from the body control module (BCM) indicating the gear position.

LUGGAGE COMPARTMENT DESCRIPTION AND OPERATION

Rear Compartment Lid Release

The rear compartment lid can be released by depressing the rear release button in the glove box or holding either front power door lock switch to the unlock position for a minimum of 2 seconds or by pressing the rear compartment release button on the key fob. The transmission must be in the PARK position for the rear compartment to release.

POWER DOOR LOCKS DESCRIPTION AND OPERATION

Power Door Locks System Components

The power window system consists of the following components:

- Body control module (BCM).
- Driver door lock cylinder switch.
- Driver door lock switch.
- Front passenger door lock switch.
- Door lock actuators in each of the doors.
- DR/LCK Trunk Fuse 15-amp.

Door Lock System Controls

The Power Door Lock System is controlled by the body control module (BCM) and can be activated by any one of the following:

- A door lock switch lock or unlock actuation.
- A door lock cylinder switch unlock actuation.
- A keyless entry transmitter actuation.
- An automatic door lock actuation (Personalization function).
- An automatic door unlock actuation (Personalization function).
- A last door closed locking (LDCL) actuation (Personalization function).

Door Lock Operation

When the body control module (BCM) detects a transition of either of the door lock switches to the lock position, it switches the door lock actuator lock control circuit to voltage. Since the lock actuator unlock control circuits are at ground potential within the BCM, the door lock actuator motors transition to the lock position.

Driver Door Unlock Operation

When the body control module (BCM) detects a transition of either of the door lock switches to the unlock position, it switches the driver door lock actuator unlock control circuit to voltage. Since the door lock actuator lock control circuit is at ground potential within the BCM, the left front (LF) door lock actuator motor transitions to the Unlock position.

The driver door lock actuator unlock control circuit is a dedicated control circuit used only for the driver door lock actuator motor. This is done so that the driver door may be unlocked by itself using a keyless entry transmitter or an automatic door unlock function (if programmed).

Passenger Door Unlock Operation

When the body control module (BCM) detects a transition of either of the door lock switches to the unlock position, it switches the door lock actuator unlock control circuits to voltage. Since the door lock actuator lock control circuit is at ground potential within the BCM, the passenger door lock actuator motors transition to the unlock position.

The door lock actuator unlock control circuits are dedicated control circuits used only for the passenger door lock actuator motors. This is done so that the driver door may be unlocked separate from the passenger doors using a keyless entry transmitter or an automatic door unlock function (if programmed).

Lockout Prevention

This function is intended to prevent the vehicle operator from locking the doors if the key is left in the ignition and

any vehicle door is open. The body control module (BCM) will react after locking all the doors by unlocking the driver door. The lockout prevention function can be overridden by manually locking the door.

Key Cylinder Unlock

The body control module (BCM) will provide unlocking of all the doors when the driver key cylinder switch is actuated to the unlock position for longer than one second.

Automatic Door Lock/Unlock

The automatic door lock/unlock function is a Vehicle Personalization feature with the following four programmable modes of operation:

1. The automatic door lock feature is disabled.
2. All of the doors lock when the vehicle is shifted out of Park with the ignition ON.
3. All of the doors lock when the vehicle is shifted out of Park with the ignition ON, and only the driver door Unlocks when the vehicle is shifted into Park.
4. All of the doors lock when the vehicle is shifted out of Park with the ignition ON, and all of the doors Unlock when the vehicle is shifted into Park.

The automatic door lock function can only be enabled by the body control module (BCM) if the driver door open switch and door ajar switches are in the Closed state. For information on programming the automatic door locks, refer to the owners manual.

Air Bag Deployment Unlock

The body control module (BCM) will provide unlocking of all the doors 15 seconds after determining the air bags have been deployed.

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