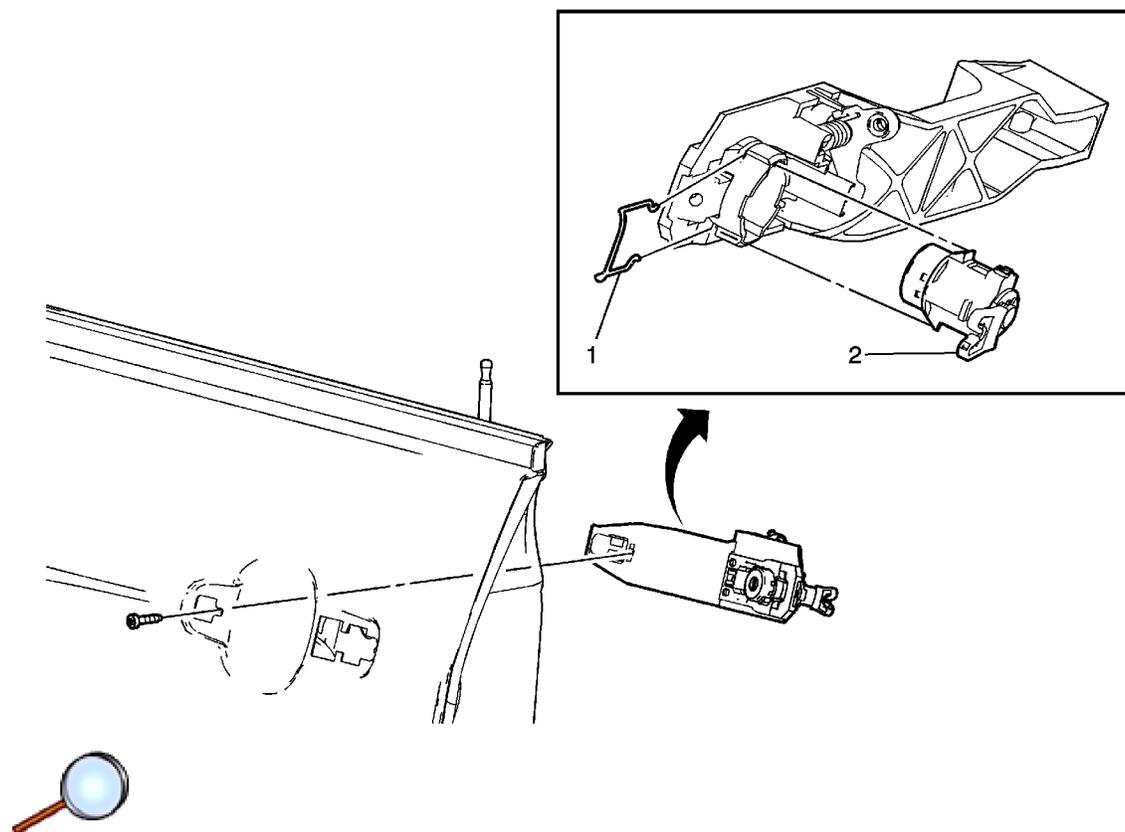


Fastener Tightening Specifications

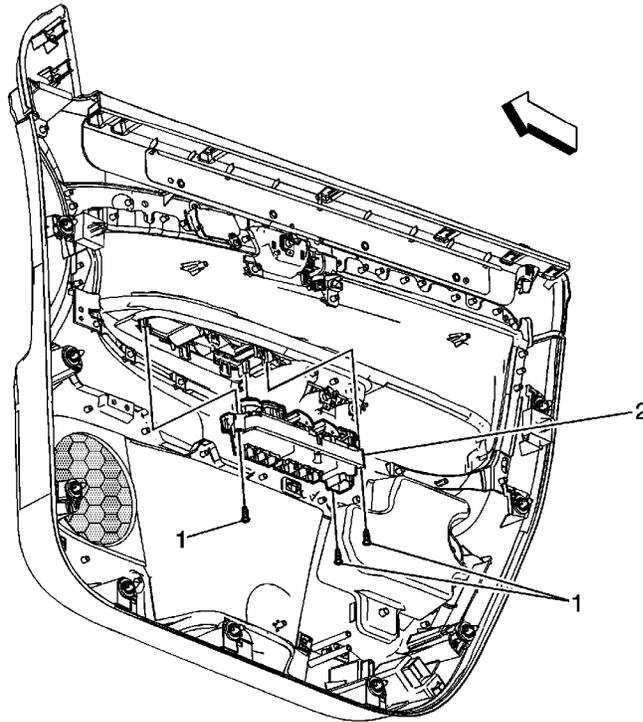
Application	Specifications	
	Metric	English
Door Latch Screws	10 N·m	89 lb in
Door Lock Actuator to Latch Screws	0.75 N·m	6 lb in
Door Striker Screws	25 N·m	18 lb ft
Inside Door Handle Bolts	10 N·m	89 lb in
Liftgate Bumper Bolts	25 N·m	18 lb ft
Outside Door Handle Nuts	10 N·m	89 lb in

Door Lock Cylinder Replacement



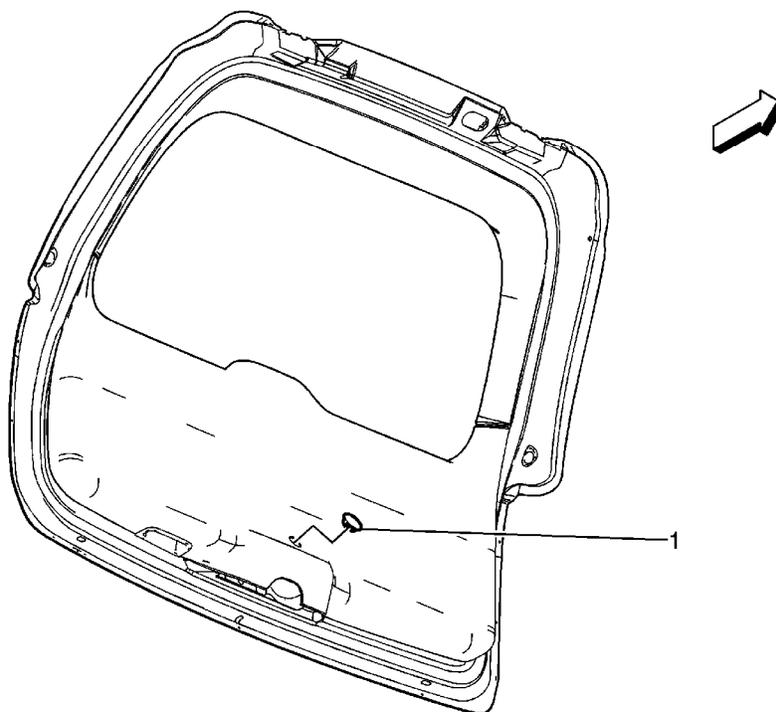
Callout	Component Name
<p>Preliminary Procedures</p> <ol style="list-style-type: none"> 1. Remove the interior trim panel. Refer to Front Side Door Trim Panel Replacement - Left Side or Front Side Door Trim Panel Replacement - Right Side . 2. Remove the water deflector. Refer to Front Side Door Water Deflector Replacement . 3. Remove the outside door handle. Refer to Front Side Door Outside Handle Replacement . 4. Remove the front side door outside handle housing. Refer to Front Side Door Outside Handle Housing Replacement . 	
1	<p>Lock Cylinder Clip</p> <p>Tip Use a flat-bladed tool to remove the clip.</p>
2	<p>Front Door Lock Cylinder</p> <p>Tip Pull the lock cylinder from the housing to remove.</p>

Door Lock and Side Window Switch Replacement - Driver Side (with RPO AXE or AXC)



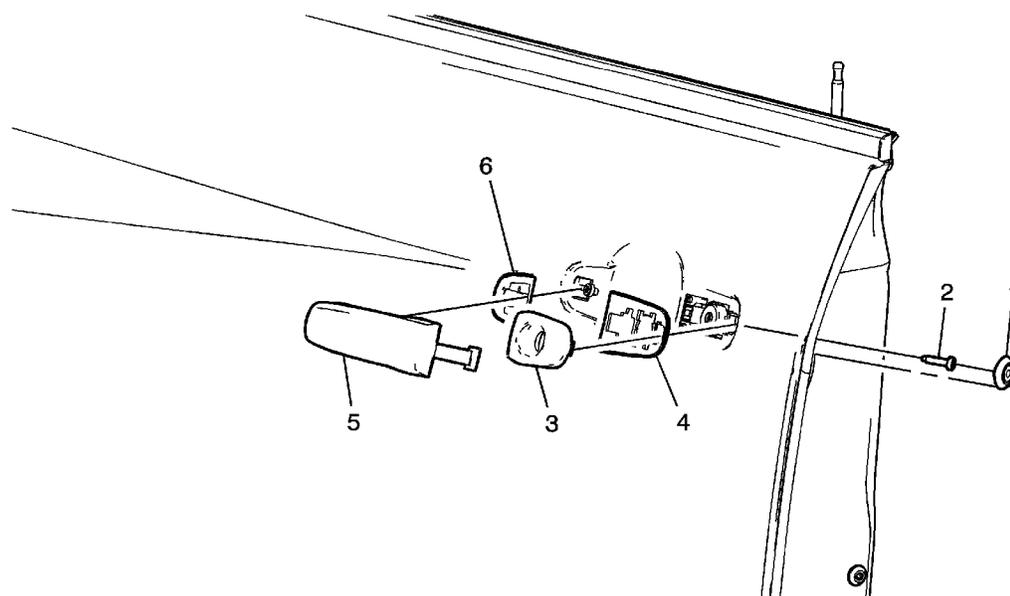
Callout	Component Name
<p>Preliminary Procedure</p> <p>Remove the driver side door trim panel. Refer to Front Side Door Trim Panel Replacement - Left Side.</p>	
<p>1</p>	<p>Front Side Door Lock and Side Window Switch Screw (Qty: 3)</p> <p>Caution: Refer to Fastener Caution in the Preface section.</p> <p>Tighten 3 N·m (27 lb in)</p>
<p>2</p>	<p>Front Side Door Lock and Side Window Switch Assembly</p> <p>Procedure</p> <ol style="list-style-type: none"> 1. Disconnect the electrical connectors. 2. Refer to Control Module References for programming and set-up information.

Opening the Liftgate Without Electrical Power



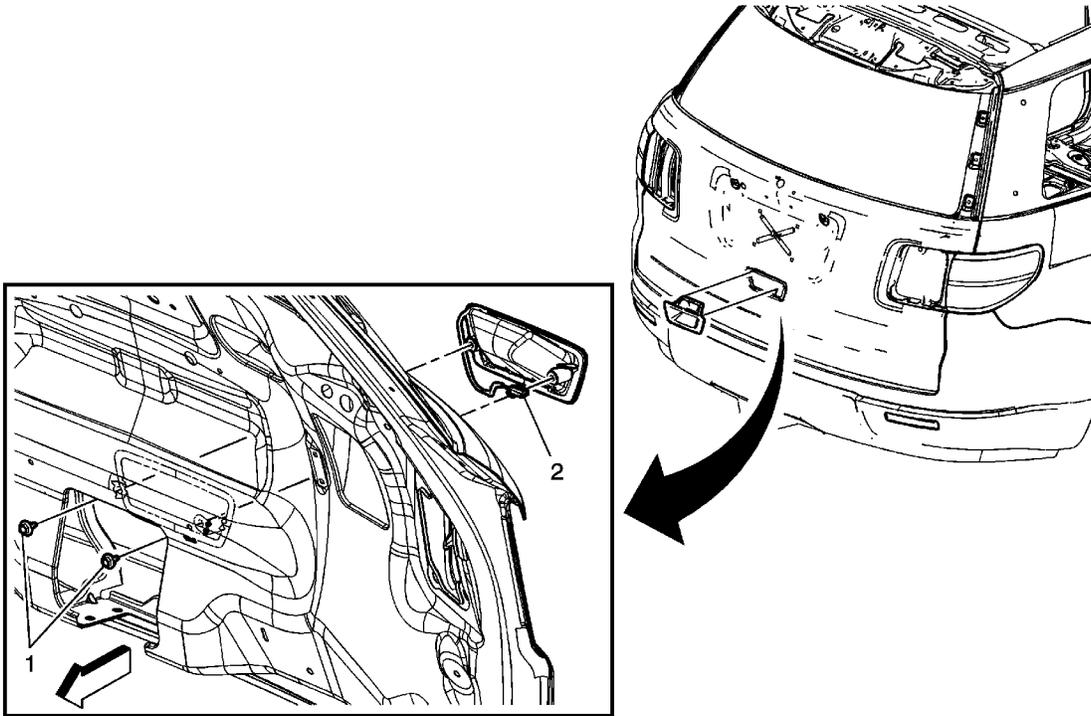
Callout	Component Name
1	<p>Liftgate Trim Panel Plug</p> <p>Procedure</p> <ol style="list-style-type: none"> 1. From inside the vehicle lower the second and third, if applicable, row seats. 2. Use a small flat-bladed tool to remove the access plug from the liftgate lower interior trim panel. 3. Push on a silver lever located on the right just through the access hole to unlock the liftgate. 4. Open the liftgate from the outside of the vehicle using the exterior handle.

Front Side Door Outside Handle Replacement



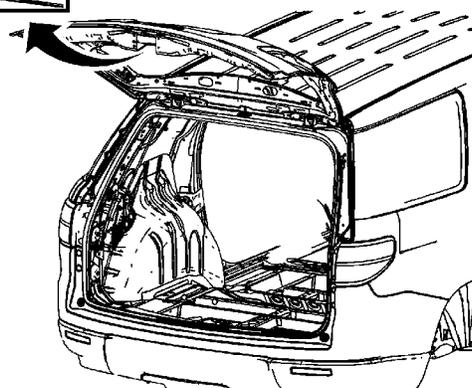
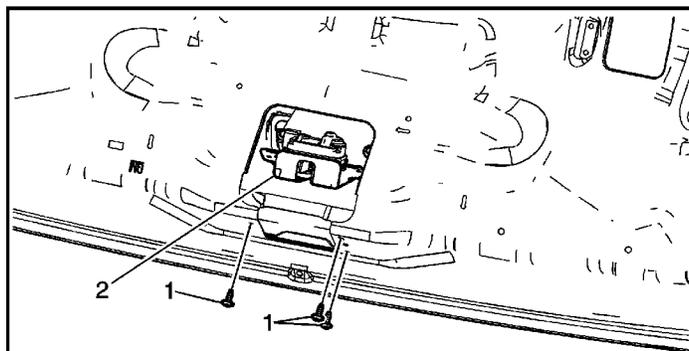
Callout	Component Name
1	Bolt Access Plug Tip Use a plastic flat-bladed tool to remove.
2	Front Side Door Outside Handle Bolt Caution: Refer to Fastener Caution in the Preface section. Tighten 9 N·m (80 lb in)
3	Front Door Outside Handle Cap
4	Front Door Outside Handle Cap Gasket
5	Front Door Outside Handle Tip Pull the outside handle rearward to release it from the inside handle housing.
6	Front Door Outside Handle Gasket

Liftgate Outside Handle Replacement



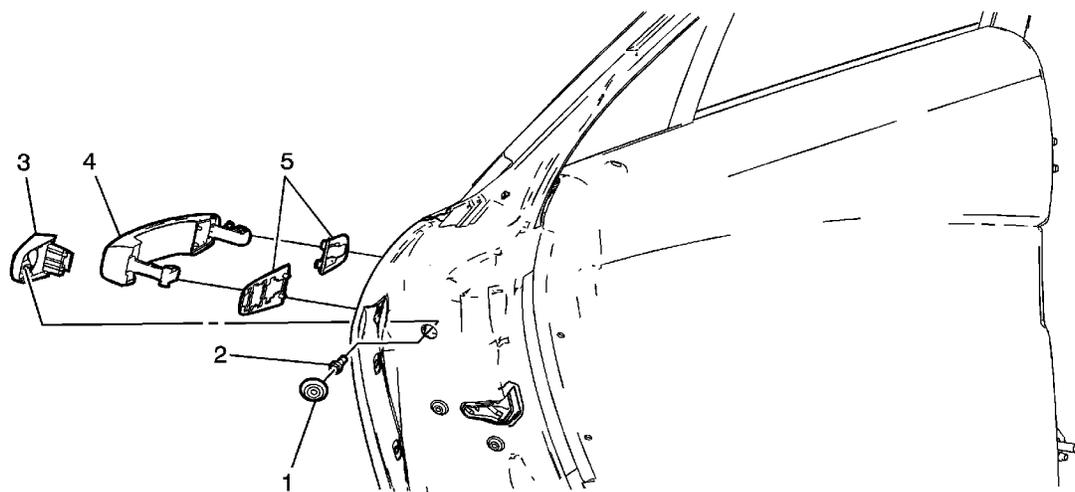
Callout	Component Name
Preliminary Procedure	
Remove the liftgate trim panel. Refer to Liftgate Trim Panel Replacement .	
1	Liftgate Handle Nut (Qty: 2) Caution: Refer to Fastener Caution in the Preface section. Tighten 9 N·m (80 lb in)
2	Liftgate Handle Assembly Procedure <ol style="list-style-type: none"> 1. Remove the rearview camera, if equipped. Refer to Rearview Camera Replacement. 2. Disconnect the electrical connector.

Liftgate Latch Replacement



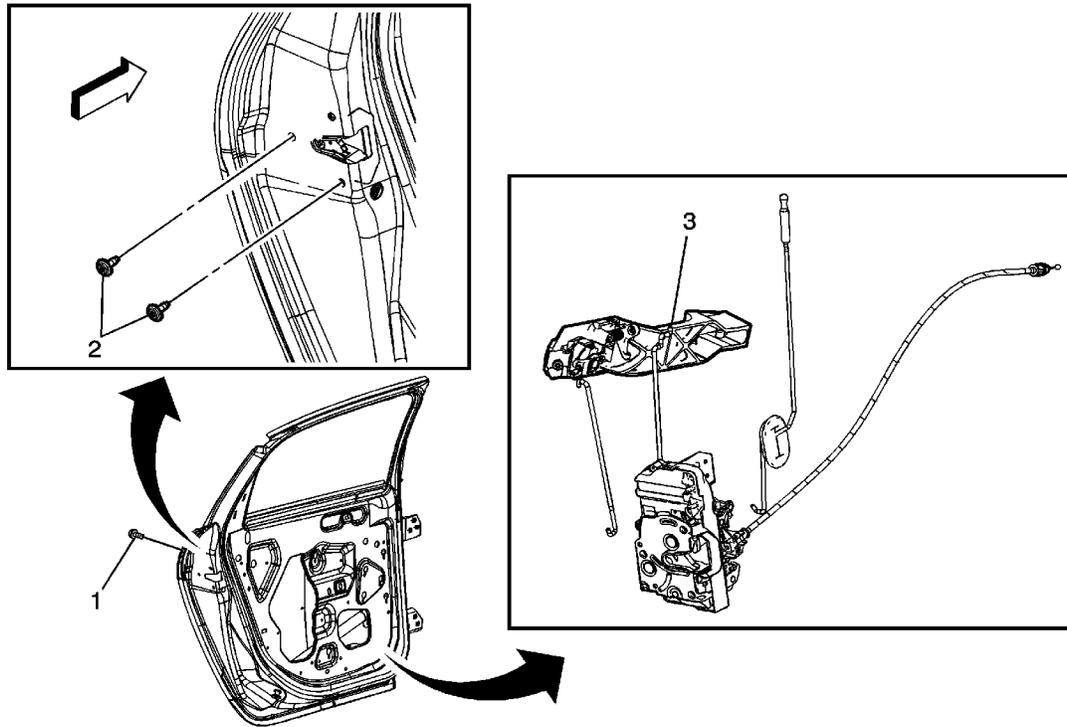
Callout	Component Name
Preliminary Procedure	
Remove the liftgate trim panel. Refer to Liftgate Trim Panel Replacement .	
1	Liftgate Latch Screw (Qty: 3) Caution: Refer to Fastener Caution in the Preface section. Tighten 9 N·m (80 lb in)
2	Liftgate Latch Assembly Procedure <ol style="list-style-type: none"> 1. Disconnect the electrical connector. 2. Calibrate the liftgate. Refer to Liftgate Calibration. 3. Adjust the liftgate if needed. Refer to Liftgate Adjustment.

Rear Side Door Outside Handle Replacement



Callout	Component Name
1	Bolt Access Plug Tip Use a plastic flat-bladed tool to remove.
2	Rear Side Door Outside Handle Cap Bolt Caution: Refer to Fastener Caution in the Preface section. Tighten 9 N·m (80 lb in)
3	Rear Door Outside Handle Cap
4	Rear Door Outside Handle Tip Pull the outside handle rearward to release it from the handle housing.
5	Rear Door Outside Handle Gasket

Rear Side Door Outside Handle Housing Replacement



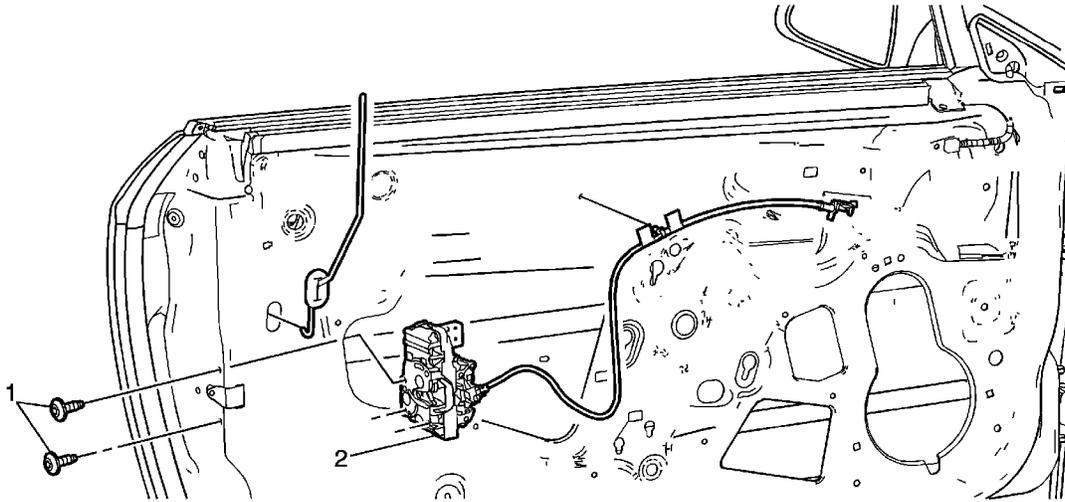
Callout	Component Name
<p>Preliminary Procedures</p> <ol style="list-style-type: none"> Remove the interior trim panel. Refer to Rear Side Door Trim Panel Replacement. Remove the water deflector. Refer to Rear Side Door Water Deflector Replacement. Remove the outside door handle. Refer to Rear Side Door Outside Handle Replacement. 	
1	<p>Rear Side Door Outside Handle Housing Bolt (Qty: 2)</p> <p>Caution: Refer to Fastener Caution in the Preface section.</p> <p>Tighten 10 N·m (89 lb in)</p>
2	<p>Rear Side Door Lock Bolt (Qty: 2)</p> <p>Tighten 10 N·m (89 lb in)</p>
	<p>Rear Side Door Outside Handle Housing</p> <p>Procedures</p>

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1. Disconnect the lock and handle rods to remove the housing.
2. Release the inside handle cable retainers before removing the door lock.
3. Disconnect the door lock electrical connector.

Front Side Door Latch Replacement

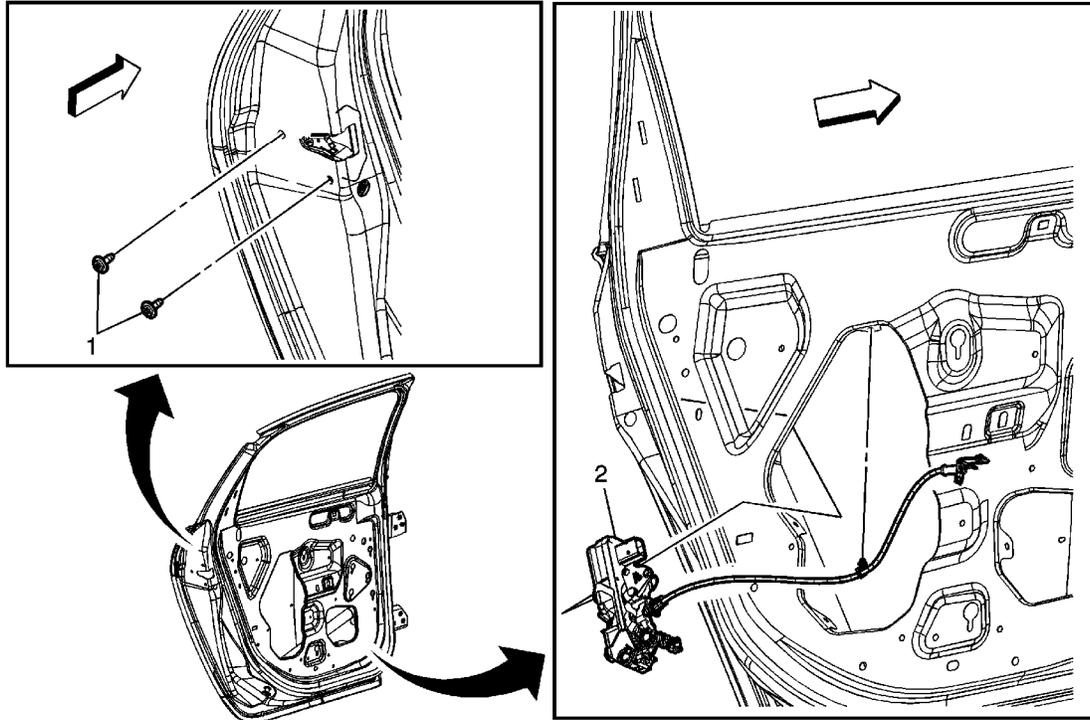


Callout	Component Name
<p>Preliminary Procedures</p> <ol style="list-style-type: none"> 1. Remove the interior trim panel. Refer to Front Side Door Trim Panel Replacement - Left Side or Front Side Door Trim Panel Replacement - Right Side. 2. Remove the water deflector. Refer to Front Side Door Water Deflector Replacement. 3. Remove the door outside handle housing. Refer to Front Side Door Outside Handle Housing Replacement. 	
1	<p>Front Side Door Latch Screw (Qty: 2)</p> <p>Caution: Refer to Fastener Caution in the Preface section.</p> <p>Tighten 10 N·m (89 lb in)</p>
2	<p>Front Side Door Latch Assembly</p> <p>Procedure</p> <ol style="list-style-type: none"> 1. Release the door latch cable retainers from the door. 2. Disconnect the door latch electrical connector.

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3. Transfer the lock rods.

Rear Side Door Latch Replacement

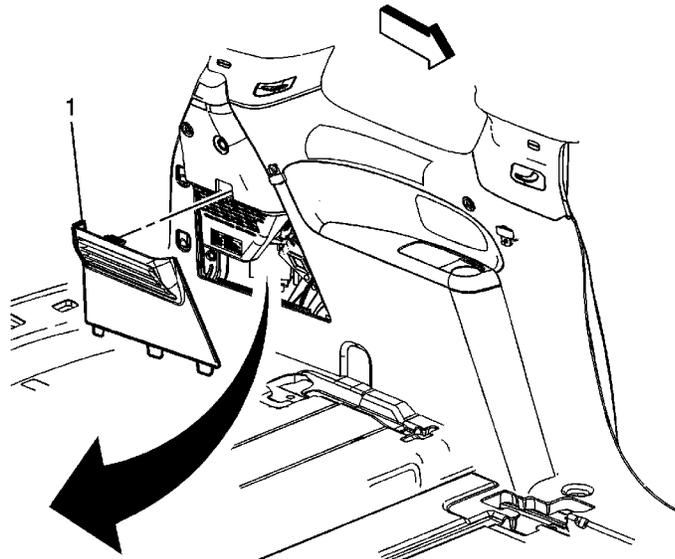
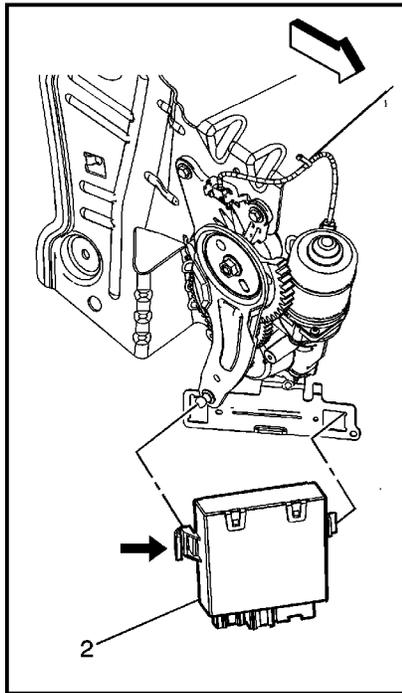


Callout	Component Name
<p>Preliminary Procedures</p> <ol style="list-style-type: none"> 1. Remove the interior trim panel. Refer to Rear Side Door Trim Panel Replacement. 2. Remove the water deflector. Refer to Rear Side Door Water Deflector Replacement. 3. Rear the rear door energy absorber pad. Rear Door Energy Absorber Pad Replacement. 	
<p>1</p>	<p>Rear Side Door Lock Bolt (Qty: 2)</p> <p>Caution: Refer to Fastener Caution in the Preface section.</p> <p>Procedure</p> <p>Remove the rear lower section of the run channel only.</p> <p>Tighten 10 N·m (89 lb in)</p>
<p>2</p>	<p>Rear Side Door Lock Assembly</p> <p>Procedure</p>

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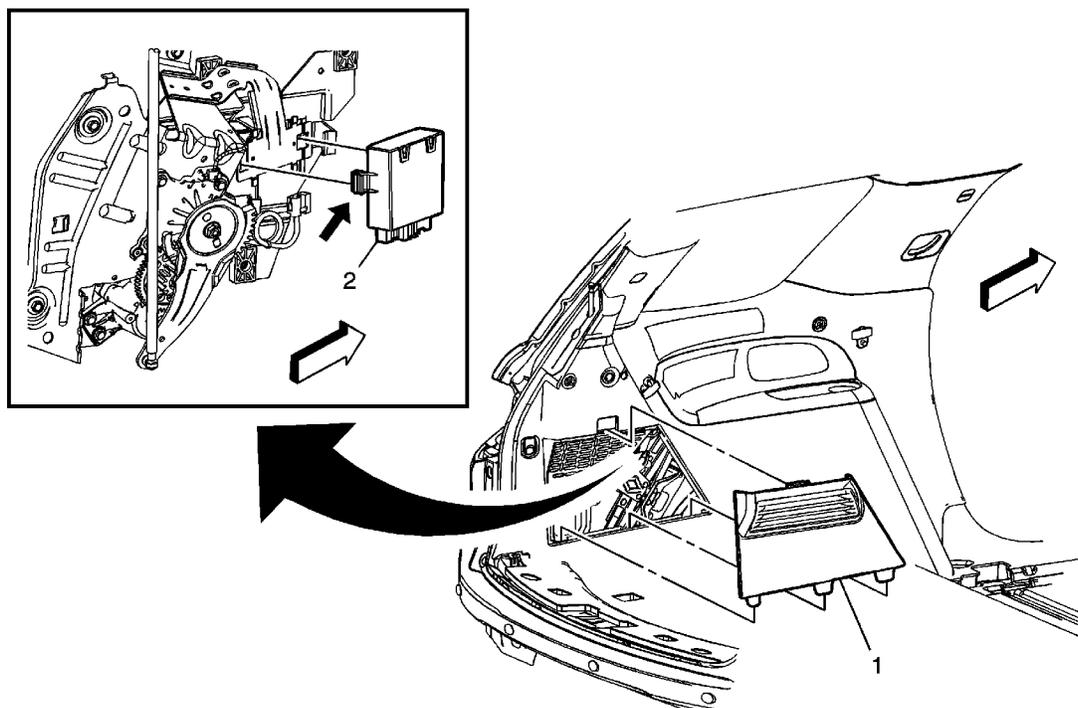
1. Release the inside handle cable retainers before removing the door lock.
2. Disconnect the door lock electrical connector.
3. Transfer the lock rods.

Accessory and Liftgate Control Module Replacement (Acadia)



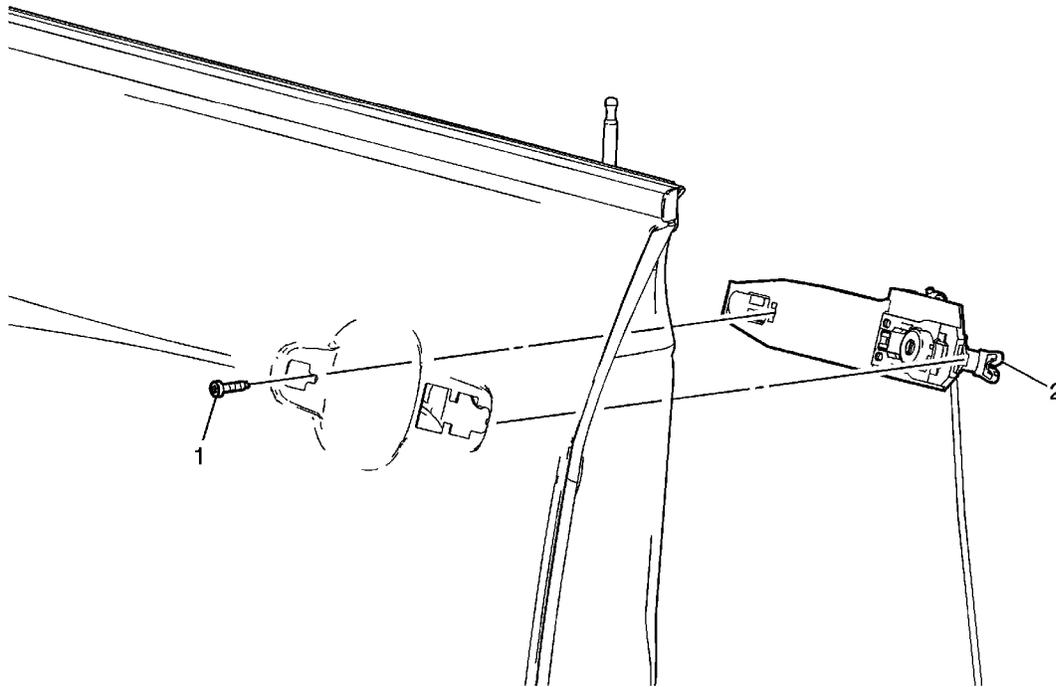
Callout	Component Name
1	Body Side Trim Panel Stow Compartment Door Assembly
2	<p>Accessory and Liftgate Control Module</p> <p>Procedure</p> <ol style="list-style-type: none"> 1. Disconnect the electrical connectors. 2. Reprogram the rear body control module if replaced. Refer to Control Module References . <p>Tip Push in the tab to release the module from the liftgate actuator assembly.</p>

Accessory and Liftgate Control Module Replacement (Enclave)



Callout	Component Name
1	Body Side Trim Panel Stow Compartment Door Assembly
2	<p>Accessory and Liftgate Control Module</p> <p>Procedure</p> <ol style="list-style-type: none"> 1. Disconnect the electrical connectors. 2. Reprogram the rear body control module if replaced. Refer to Control Module References . <p>Tip Push in the tab to release the module from the liftgate actuator assembly.</p>

Front Side Door Outside Handle Housing Replacement

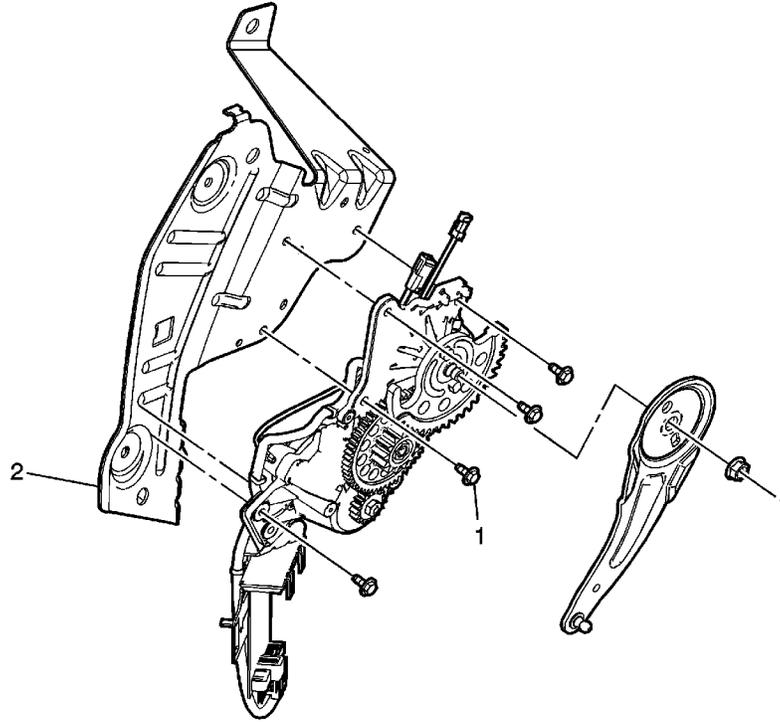


Callout	Component Name
<p>Preliminary Procedures</p> <ol style="list-style-type: none"> 1. Remove the interior trim panel. Refer to Front Side Door Trim Panel Replacement - Left Side or Front Side Door Trim Panel Replacement - Right Side. 2. Remove the water deflector. Refer to Front Side Door Water Deflector Replacement. 3. Remove the outside door handle. Refer to Front Side Door Outside Handle Replacement. 	
1	<p>Front Side Door Handle Housing Bolt</p> <p>Caution: Refer to Fastener Caution in the Preface section.</p> <p>Tighten 7 N·m (62 lb in)</p>
2	<p>Front Side Door Handle Housing</p> <p>Procedure</p> <ol style="list-style-type: none"> 1. Disconnect the lock and handle rods to remove the housing. 2. Release the inside handle cable retainers before removing the door lock.

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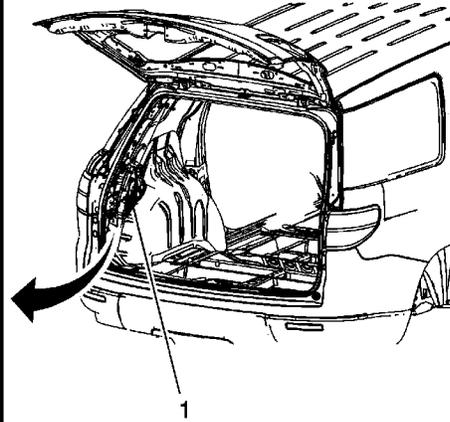
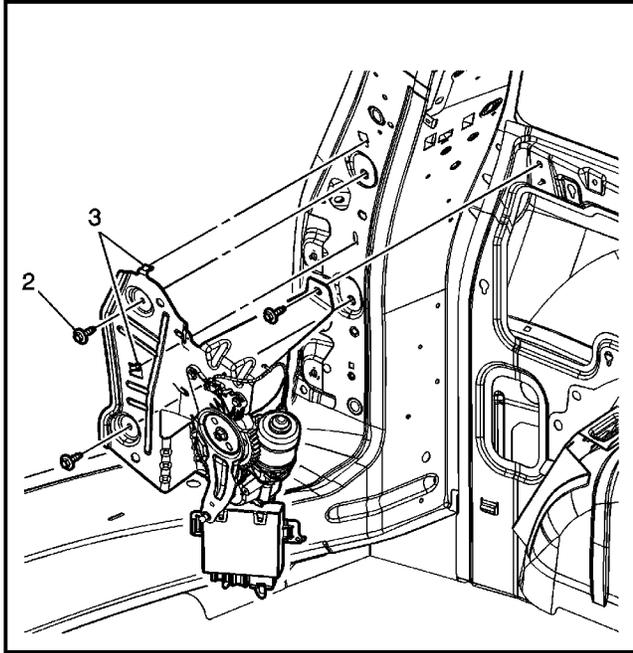
3. Disconnect the door lock electrical connector.
4. Transfer the lock cylinder to the new housing. Refer to [Door Lock Cylinder Replacement](#).

Liftgate Close Actuator Bracket Replacement



Callout	Component Name
Preliminary Procedures	
<ol style="list-style-type: none"> 1. Remove the body side trim panel. Refer to Quarter Lower Rear Trim Panel Replacement. 2. Remove the liftgate close actuator control module. Refer to Liftgate Actuator Replacement. 	
1	Liftgate Close Actuator Bracket Bolt (Qty: 5) Caution: Refer to Fastener Caution in the Preface section. Tighten 30 N·m (22 lb ft)
2	Liftgate Close Actuator Bracket

Liftgate Actuator Replacement



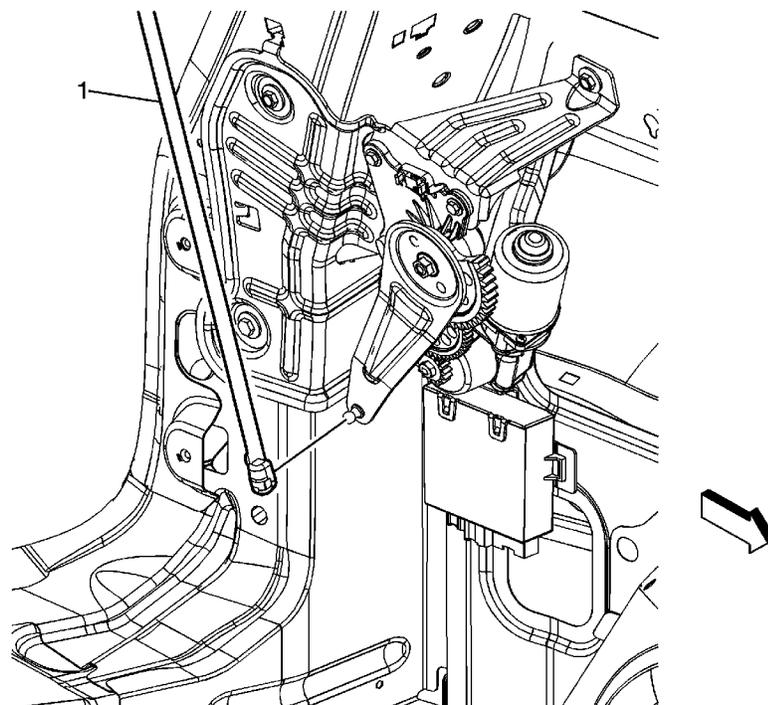
Callout	Component Name
<p>Preliminary Procedures</p> <ol style="list-style-type: none"> 1. Remove the bodyside trim panel. Refer to Quarter Lower Rear Trim Panel Replacement. 2. Disconnect the power liftgate actuator rod. Refer to Liftgate Actuator Rod Replacement. 	
1	<p>Liftgate Close Actuator Control Module</p> <p>Procedure</p> <ol style="list-style-type: none"> 1. Disconnect the electrical connector. 2. Cut the tie strap, if equipped.
2	<p>Liftgate Close Actuator Motor Control Module Bolt (Qty: 5)</p> <p>Caution: Refer to Fastener Caution in the Preface section.</p> <p>Tighten 9 N·m (80 lb in)</p>
<p>Liftgate Close Actuator Control Module</p> <p>© 2010 General Motors Corporation. All rights reserved.</p>	

3

Procedure

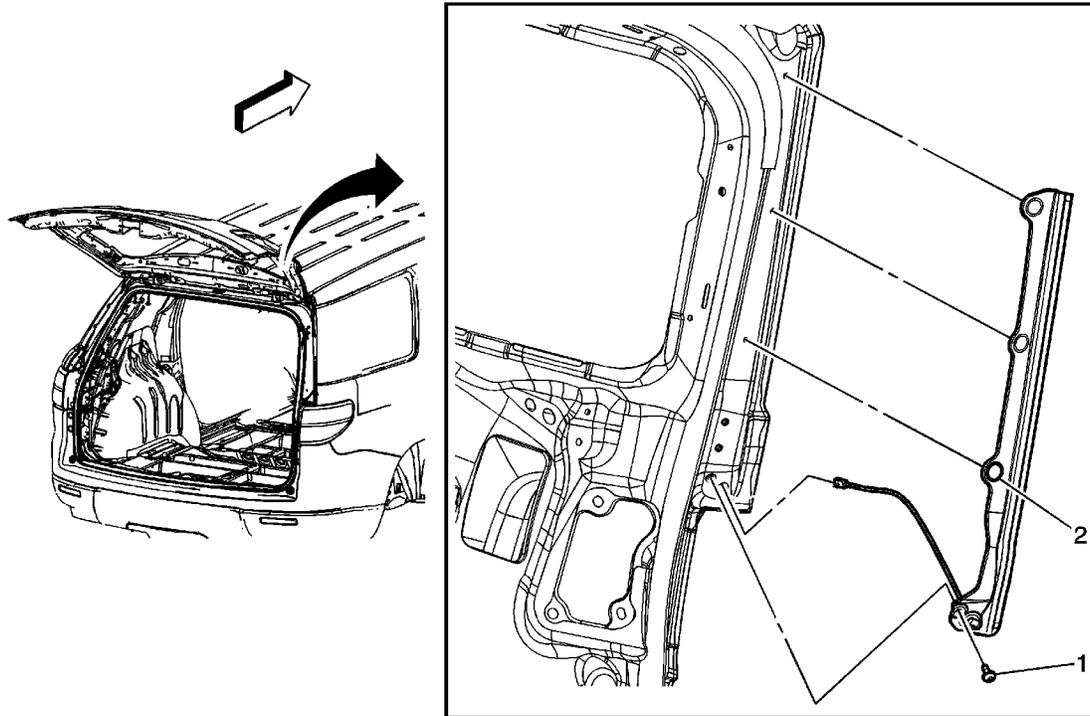
Reprogram liftgate module. Refer to [Liftgate Calibration](#).

Liftgate Actuator Rod Replacement



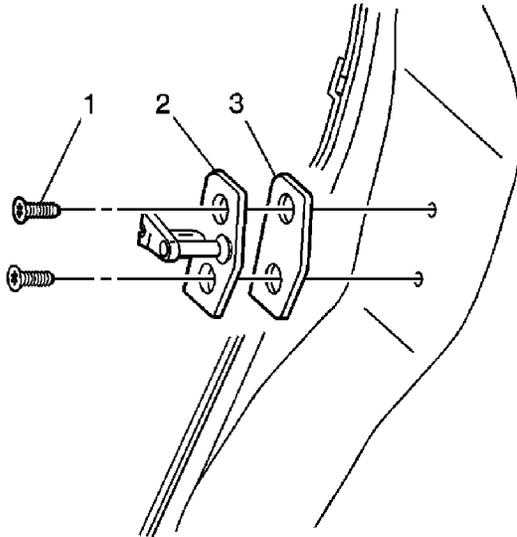
Callout	Component Name
<p>Preliminary Procedure</p> <p>Remove the left side trim panel. Refer to Quarter Lower Rear Trim Panel Replacement.</p>	
1	<p>Liftgate Actuator Rod</p> <p>Warning: When a lift gate hold open device is being removed or installed, provide alternate support to avoid the possibility of damage to the vehicle or personal injury.</p> <p>Procedure</p> <ol style="list-style-type: none"> 1. Release the locking tabs on the actuator rod. 2. Calibrate the liftgate. Refer to Liftgate Calibration.

Liftgate Side Upper Sensor Replacement



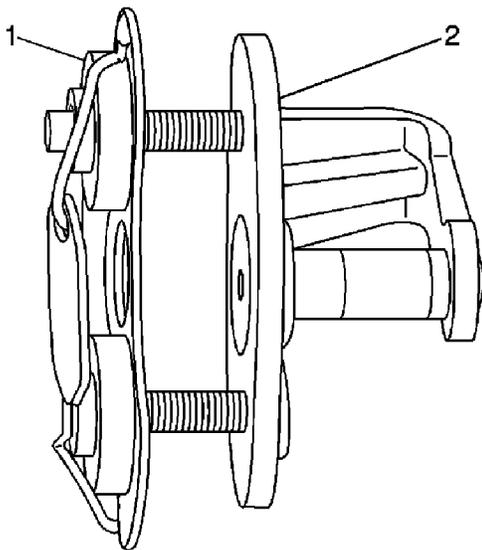
Callout	Component Name
Preliminary Procedures	
1. Remove the liftgate trim panel. Refer to Liftgate Trim Panel Replacement . 2. Disconnect the electrical connector.	
1	Sensor Side Upper Liftgate Retainer (Qty: 4) Tip The retainers are ONE time use ONLY. They must be replaced after being removed.
2	Sensor Side Upper Liftgate

Door Lock Striker Adjustment



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

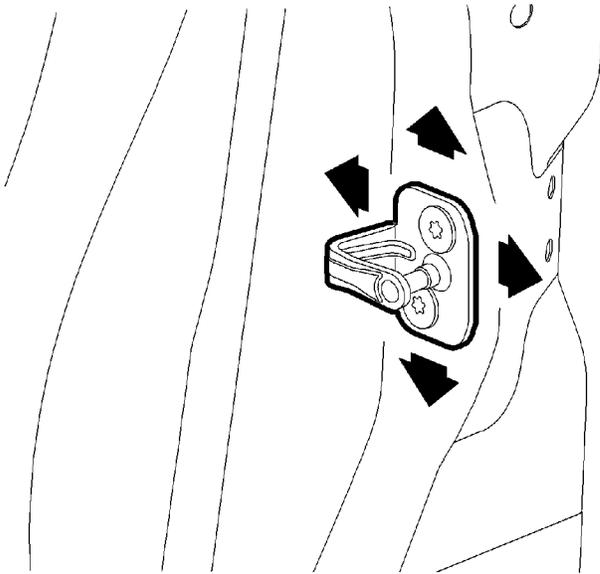
1. Ensure that the door is properly aligned with the door opening before proceeding with the striker adjustment.
2. Open and close the door on the striker (2). Note if the door drags on the striker causing the door to move upward or downward upon contact with the striker. Also note the closing effort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





Note: 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.

- 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.



- Adjust the door striker up or down and inboard or outboard as required.
- 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.

Caution: Refer to [Fastener Caution](#) in the Preface section.

- Adjust the striker and add spacers as required.

Tighten

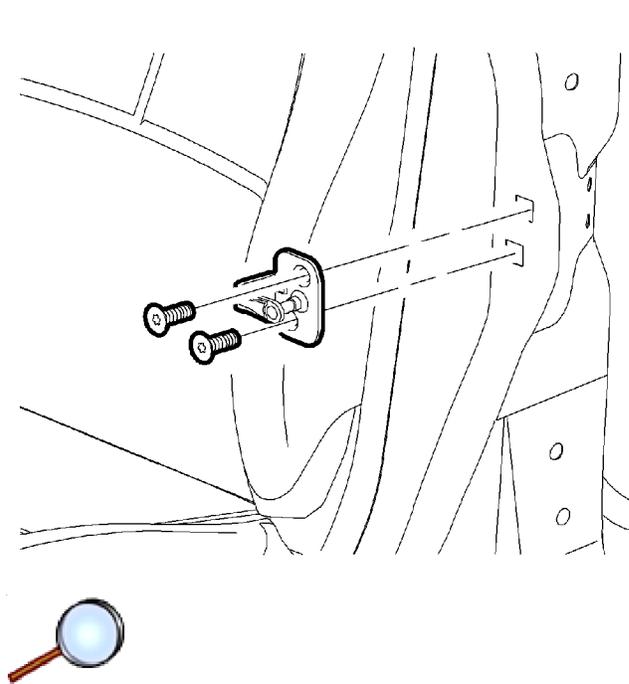
Tighten the screws to 25 N·m (18 lb ft).

- Inspect the door for proper operation.
- Close the door.

Front Side Door Lock Striker Replacement

Removal Procedure

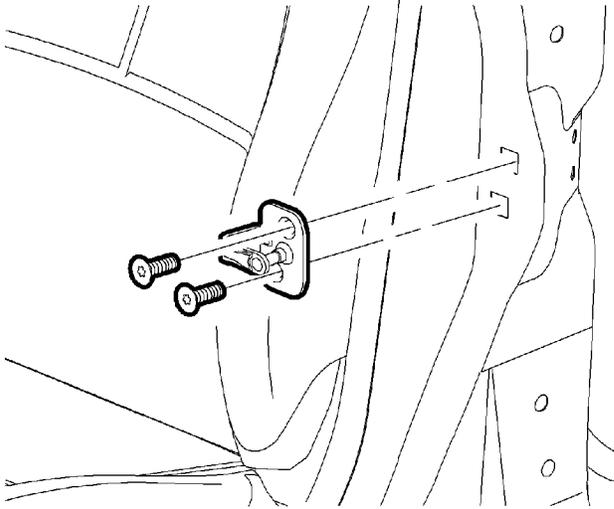
Warning: In order to prevent SIR deployment, personal injury, or unnecessary SIR system repairs, do not strike the door or the door pillar in the area of the side impact sensor (SIS). Turn OFF the ignition and remove the key when performing service in the area of the SIS.



Note: 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. Using a grease pencil, mark around the striker for installation purposes.
2. Remove the bolts.
3. Remove the striker.

Installation Procedure



1. Loosely install the striker with the bolts.
2. Align the striker with the marks made prior to removal.
3. Install the bolts, hand tighten.
4. Inspect the door closing and align the striker as required. Refer to [Door Lock Striker Adjustment](#).

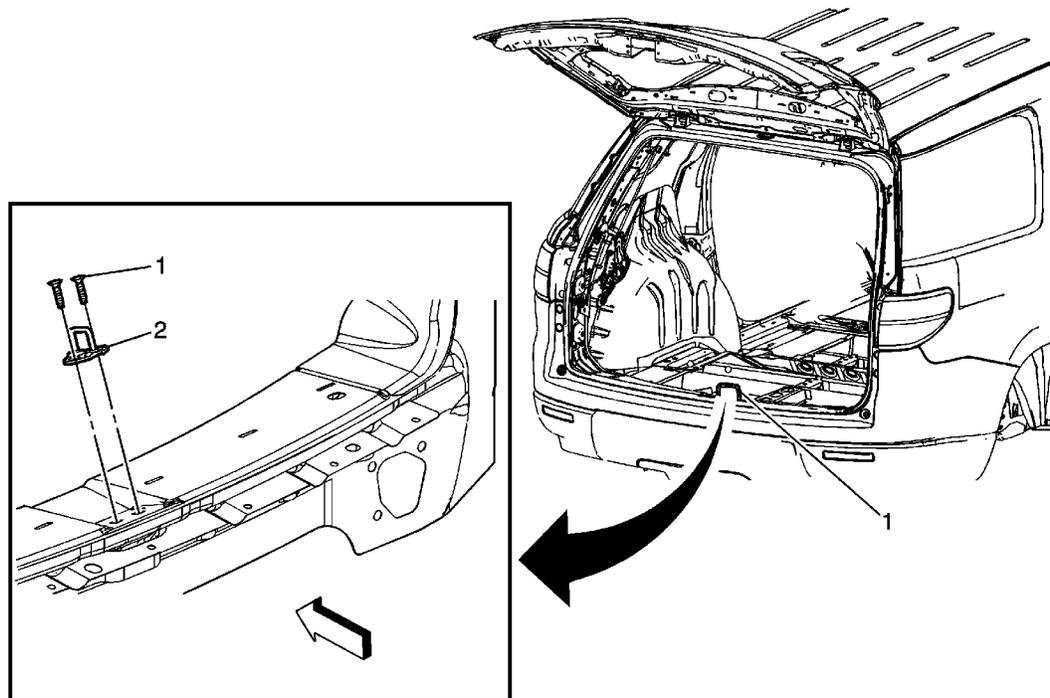
Caution: Refer to [Fastener Caution](#) in the Preface section.

5. Tighten the striker bolts.

Tighten

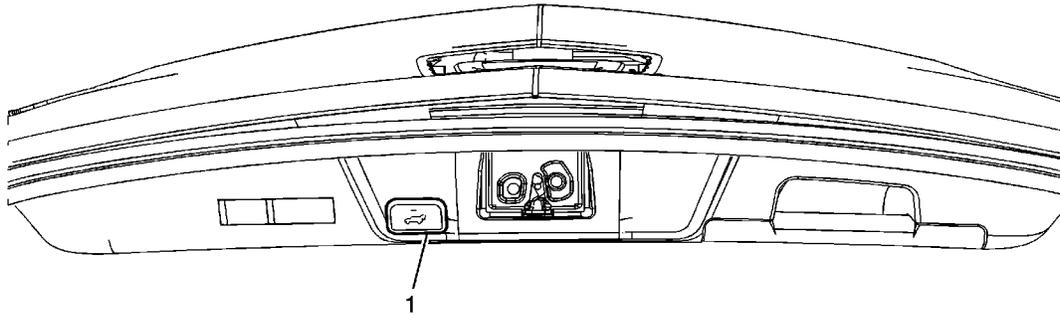
Tighten the door striker bolts to 25 N·m (18 lb ft).

Liftgate Lock Striker Replacement



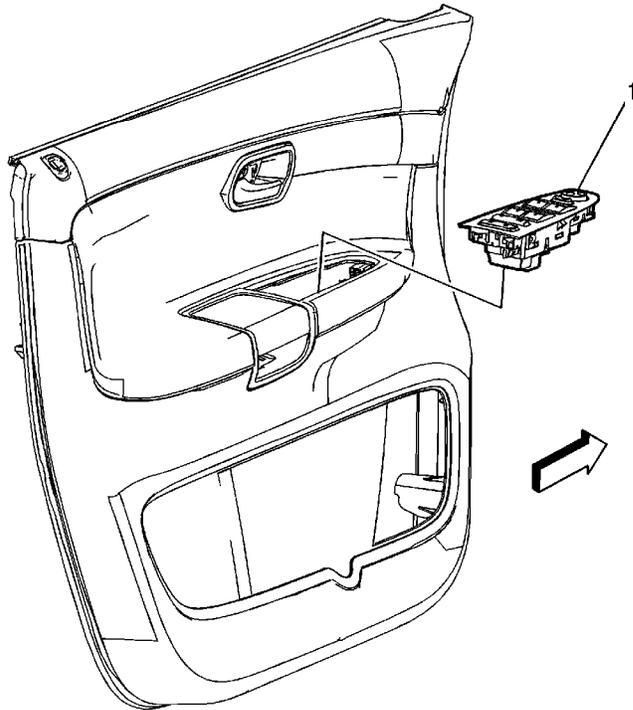
Callout	Component Name
Preliminary Procedures	
Remove Liftgate Door Sill Plate. Refer to Liftgate Door Sill Plate Replacement	
1	Liftgate Lock Striker Bolt (Qty: 2) Caution: Refer to Fastener Caution in the Preface section. Tighten 25 N·m (18 lb ft)
2	Liftgate Lock Striker Procedure Mark the location of the striker with a grease pencil to ensure proper alignment during installation.

Liftgate Release Switch Replacement



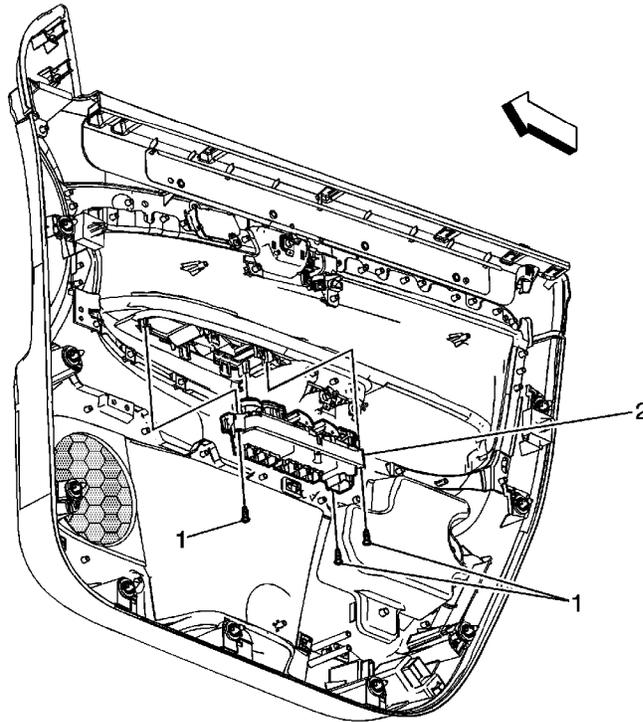
Callout	Component Name
Preliminary Procedure Remove the liftgate trim panel. Refer to Liftgate Trim Panel Replacement .	
1	Liftgate Release Switch Tip Disconnect the electrical connector.

Door Lock and Side Window Switch Replacement - Driver Side (Traverse with RPO AXE)



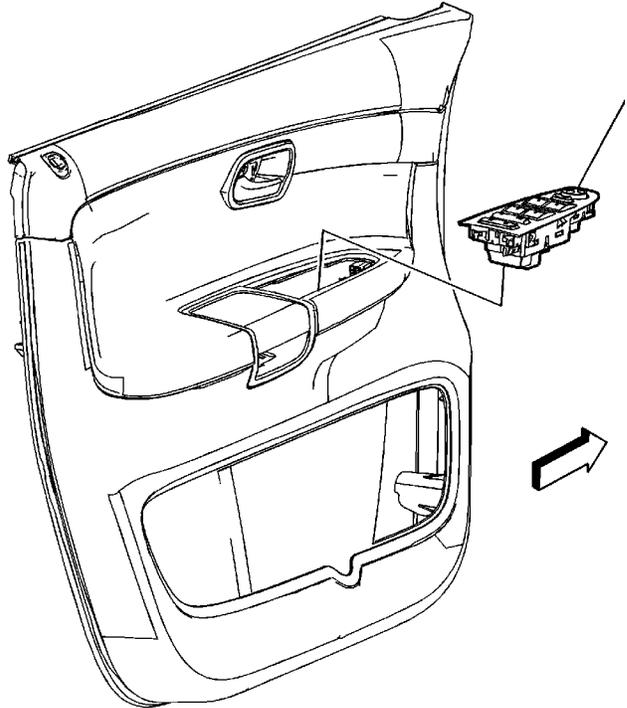
Callout	Component Name
1	<p>Front Side Door Lock and Side Window Switch Assembly</p> <p>Procedure</p> <ol style="list-style-type: none"> 1. Lift upward at the rear edge of the switch assembly then slide up and out of the door panel. 2. Disconnect the electrical connector from the switch assembly.

Door Lock and Side Window Switch Replacement - Driver Side (with RPO AXE or AXC)



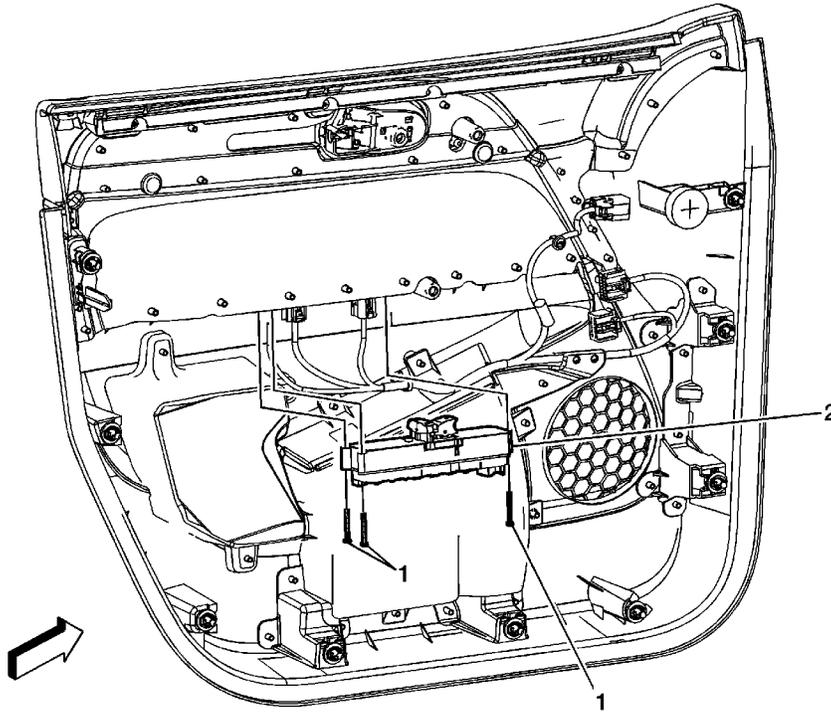
Callout	Component Name
<p>Preliminary Procedure</p> <p>Remove the driver side door trim panel. Refer to Front Side Door Trim Panel Replacement - Left Side.</p>	
<p>1</p>	<p>Front Side Door Lock and Side Window Switch Screw (Qty: 3)</p> <p>Caution: Refer to Fastener Caution in the Preface section.</p> <p>Tighten 3 N·m (27 lb in)</p>
<p>2</p>	<p>Front Side Door Lock and Side Window Switch Assembly</p> <p>Procedure</p> <ol style="list-style-type: none"> 1. Disconnect the electrical connectors. 2. Refer to Control Module References for programming and set-up information.

Door Lock and Side Window Switch Replacement - Driver Side (Outlook only with RPO AXA)



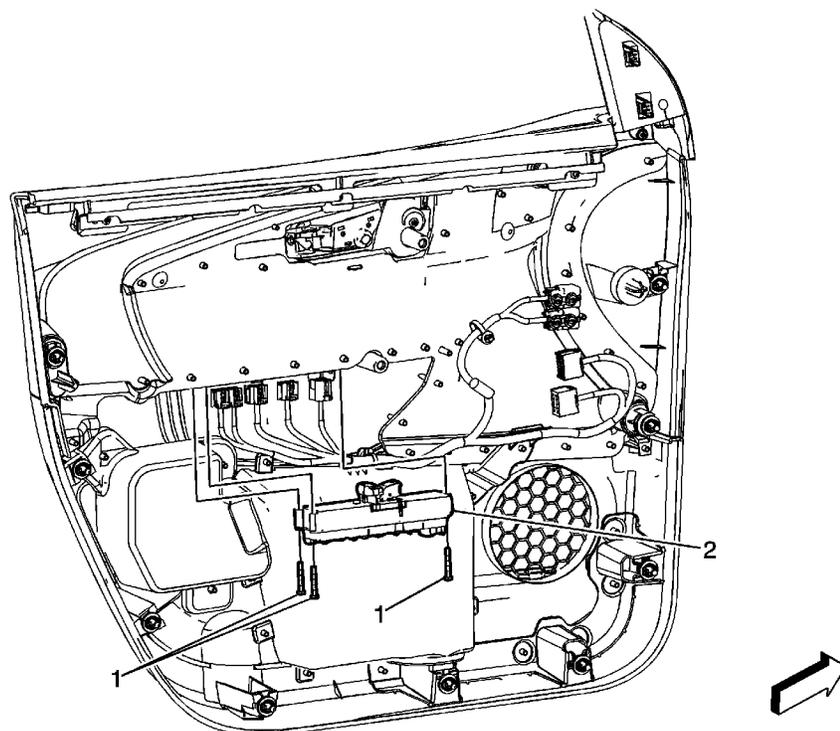
Callout	Component Name
<p>Preliminary Procedure</p> <p>Remove driver side door trim panel. Refer to Front Side Door Trim Panel Replacement - Left Side .</p>	
<p>1</p>	<p>Front Side Door Lock and Side Window Switch Assembly</p> <p>Procedure</p> <ol style="list-style-type: none"> 1. Disconnect the electrical connector from the switch assembly. 2. Depress the retainers from the back side of the door panel. 3. Lift upward at the rear edge of the switch assembly then slide up and out of the door panel.

Door Lock and Side Window Switch Replacement - Passenger Side (Enclave with RPO AXE or AXC)



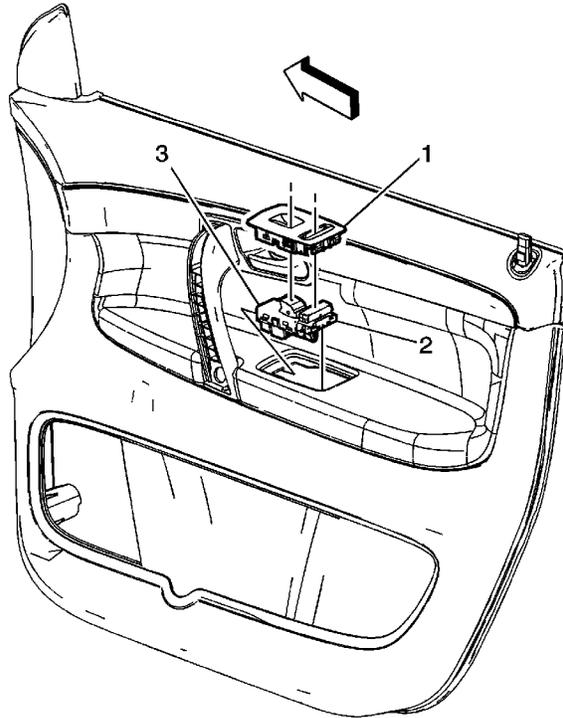
Callout	Component Name
<p>Preliminary Procedure</p> <p>Remove the passenger side door trim panel. Refer to Front Side Door Trim Panel Replacement - Right Side.</p>	
<p>1</p>	<p>Front Side Door Lock and Side Window Switch Screw (Qty: 3)</p> <p>Caution: Refer to Fastener Caution in the Preface section.</p> <p>Tighten 3 N·m (27 lb in)</p>
<p>2</p>	<p>Front Side Door Lock and Side Window Switch Assembly</p> <p>Procedure</p> <ol style="list-style-type: none"> 1. Disconnect the electrical connectors. 2. Refer to Control Module References for programming and set-up information.

Door Lock and Side Window Switch Replacement - Passenger Side (with RPO AXE or AXC)



Callout	Component Name
<p>Preliminary Procedure</p> <p>Remove the passenger side door trim panel. Refer to Front Side Door Trim Panel Replacement - Right Side.</p>	
<p>1</p>	<p>Front Side Door Lock and Side Window Switch Screw (Qty: 3)</p> <p>Caution: Refer to Fastener Caution in the Preface section.</p> <p>Tighten 3 N·m (27 lb in)</p>
<p>2</p>	<p>Front Side Door Lock and Side Window Switch Assembly</p> <p>Procedure</p> <ol style="list-style-type: none"> 1. Disconnect the electrical connectors. 2. Refer to Control Module References for programming and set-up information.

Door Lock and Side Window Switch Replacement - Passenger Side (Outlook with RPO AXA)



Callout	Component Name
1	Front Side Door Lock and Side Window Switch Plate Procedure Use a flat-bladed tool to pry the switch plate from the door handle assembly.
2	Front Side Door Lock Switch Procedure Disconnect the electrical connector.
3	Front Side Door Window Switch Procedure Disconnect the electrical connector.