Fastener Tightening Specifications

Application	Specification	
	Metric	English
Front Door Frame Applique Screw	1.5 N·m	13 lb in
Front Fender Wheel Opening Molding Nut	4 N·m	35 lb in
Front and Rear Side Door Opening Frame Reveal Molding Screw	1.5 N·m	13 lb in
Liftgate Lower Molding Nut	1.5 N·m	13 lb in
Lower Front Grille Molding Screw	1.5 N·m	13 lb in
Lower Rocker Panel Molding Screw	1.5 N·m	13 lb in
Radiator Lower Grille Nut	4 N·m	35 lb in
Radiator Upper Grille Nut	4 N·m	35 lb in
Rear Liftgate Applique Nut	4 N·m	35 lb in
Rear Side Door Frame Applique Screw	1.5 N·m	13 lb in
Rear Spoiler Nut	4 N·m	35 lb in
Rear Wheel Opening Molding Nut	4 N·m	35 lb in

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Paint Protective Film Replacement (VGC)

1. The paint protective film and vehicle surface temperature should be 13-32°C (55-90°F) for best results.
2. Automatic car washes should be avoided for at least 24 hours after the paint protective film application.
3. Wipe the vehicle surface with isopropyl alcohol or flash naptha at the application area.
4. Dry the surface with a clean lint-free cloth.
5. Create a mixture of 25 percent isopropyl alcohol and 75 percent water and two drops of baby shampoo per 16 oz of fluid mixture.
6. Remove the backing liner from the protective film patch.
7. Use the solution to liberally spray the adhesive side of the protective patch, the mounting location along with your hands.
8. Position the paint protective film patch to the desired location on the vehicle.
9. Spray the surface of the film with the alcohol, water and soap solution.
10. Using a dampened squeegee, start at the center of the protective patch, working outward in order to remove the air and solution from under the protective patch.
11. Release any air bubbles with a pin.
12. Dry the surface with a clean, lint-free cotton cloth.

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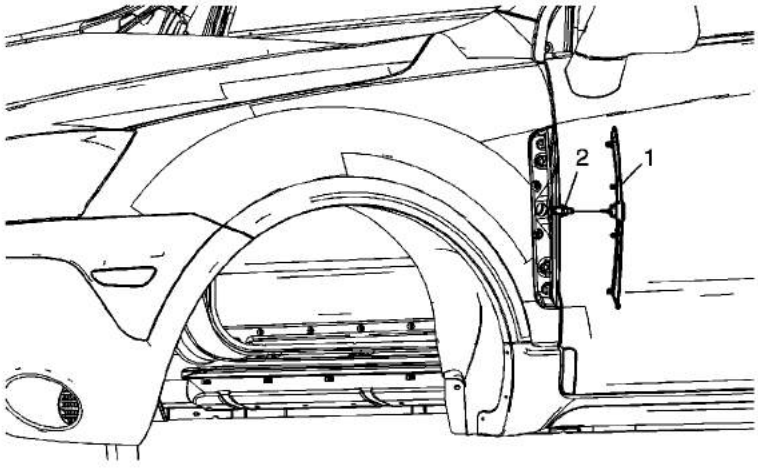
Front Fender Center Molding Replacement



Callout	Component Name
1	Front Fender Center Molding Assembly **Procedure** 1. Open the door on the side the front fender molding is being serviced from. 2. Working from inside the hinge pillar area, insert a small 8 mm socket on a ratchet over the plastic retainer clips to release the pressure. 3. Begin releasing the retainers at the bottom of the molding and work towards the top. 4. When the first lower retainer clip is released, insert a small plastic flat-bladed tool between the exterior body panel and the molding assembly to prevent the retainer from re-engaging back into the fender panel hole. 5. Disconnect the electrical harness connector from the lamp housing. 6. Connect the electrical harness lamp socket to the lamp housing. 7. Position the molding retainers to the fender holes. 8. Using the palm portion of the hand, secure the retainers to the fender holes. 9. An light audible click will be heard when each retainer is secure to the fender panel.
2	Front Side Turn Signal Lamp Assembly **Tip** Disconnect the electrical connector prior to removing the center molding assembly from the fender.

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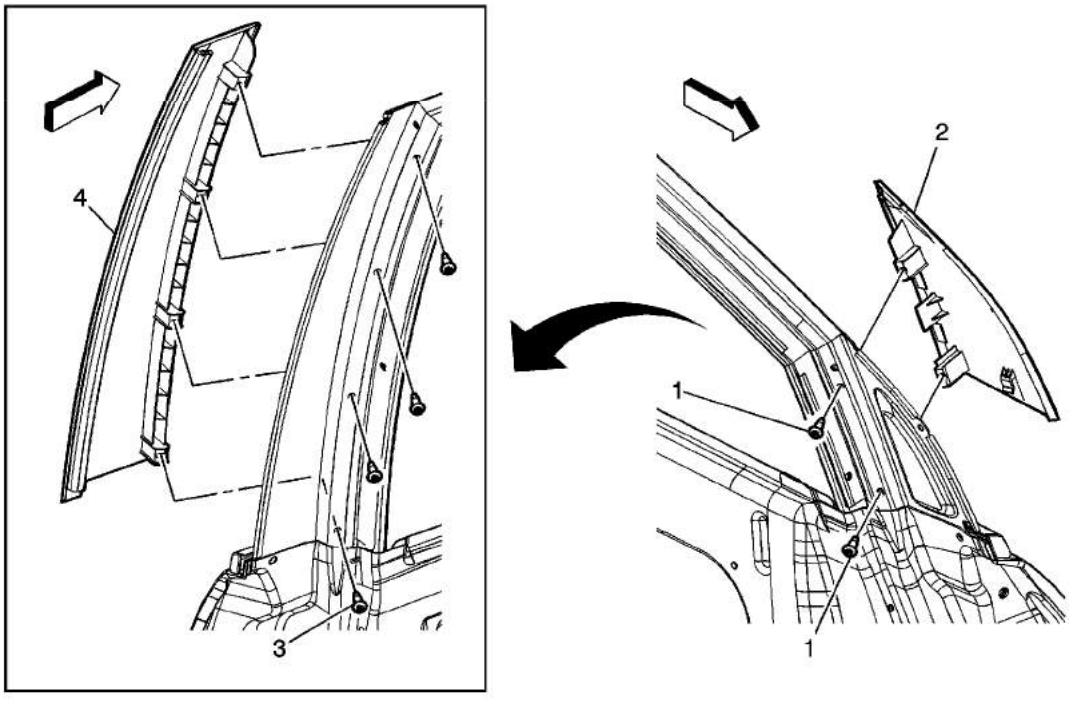
Front Door Frame Applique Replacement



Callout	Component Name
1	Front Door Frame Applique Screw (Qty: 2) **Caution:** Refer to Fastener Caution in the Preface section. **Procedure** 1. Apply masking tape to the door frame and applique. 2. Loosen the primary door weatherstrip in the front to expose the front screws. 3. Place the front door window in the full down position. **Tighten** 1.5 N·m (13 lb in)
2	Front Door Frame Applique
3	Front Door Rear Frame Applique Screw (Qty: 4) **Procedure** 1. Apply masking tape to the door frame and applique. 2. Pull the window channel weatherstrip from the applique to expose the screws.

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	Tighten 1.5 N·m (13 lb in)
4	Front Door Rear Frame Applique **Tip** Pull the applique up and away from the outer seal weatherstrip.

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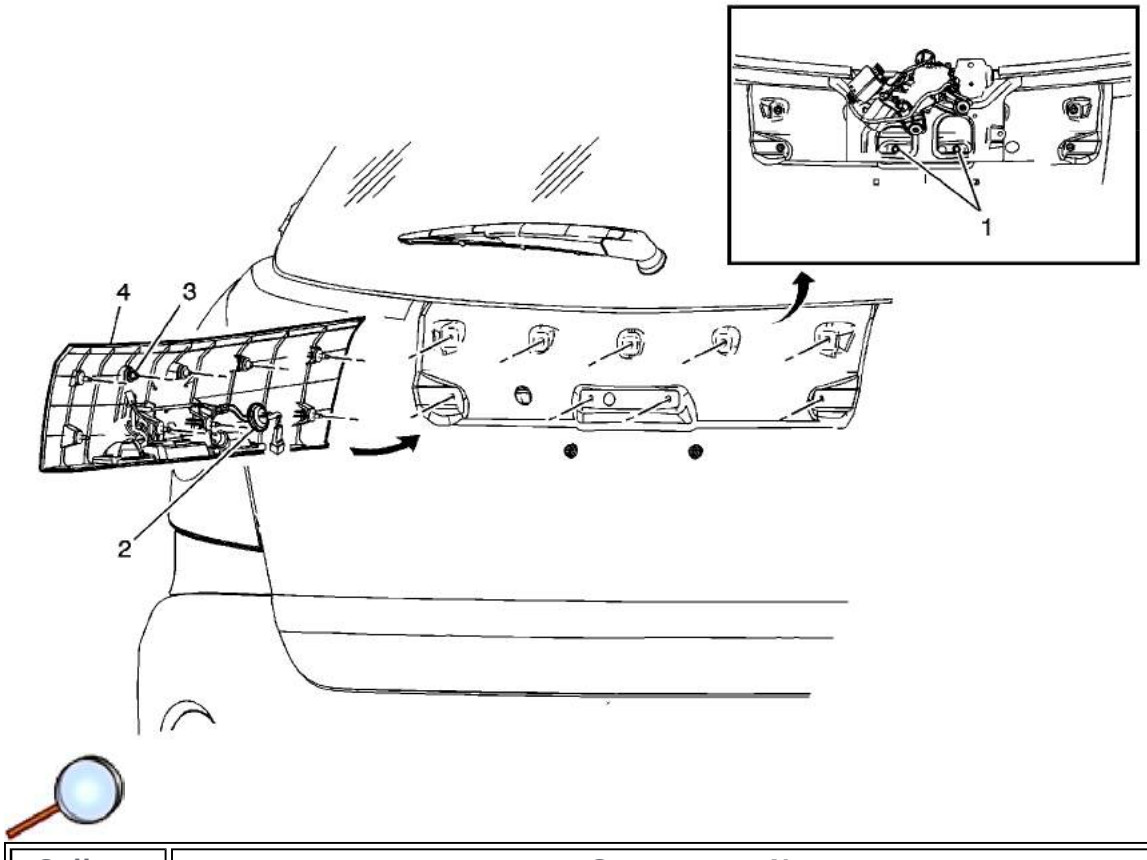
Liftgate Center Applique Replacement



Callout	Component Name
Preliminary Procedures 1. Remove the interior liftgate trim panel. Refer to Liftgate Trim Panel Replacement. 2. Disconnect the electrical connector for the license plate lamps. 3. Disengage the electrical harness grommet from the outer liftgate panel.	
1	Rear Liftgate Upper Applique Nut (Qty: 6) **Caution:** Refer to Fastener Caution in the Preface section. **Tighten** 4 N·m (35 lb in)
2	Electrical Harness Grommet
3	Retainer (Qty: 3) **Tip** Carefully release the upper retainers, replace as needed.
	Rear Liftgate Applique Panel

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4	Transfer parts as needed to the new applique panel.

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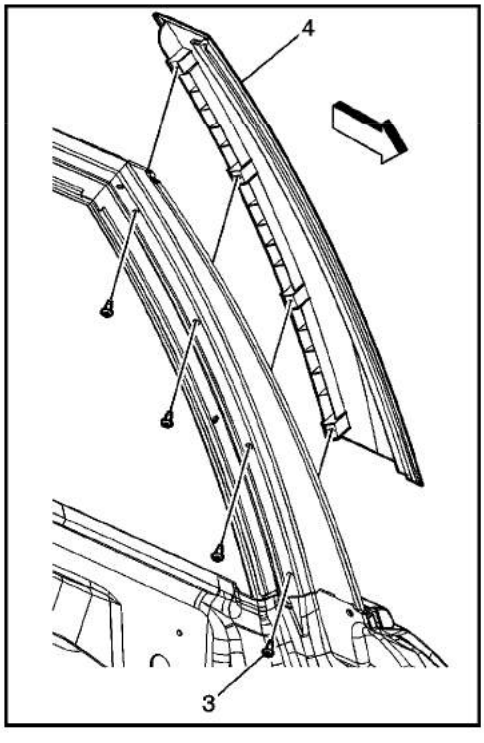
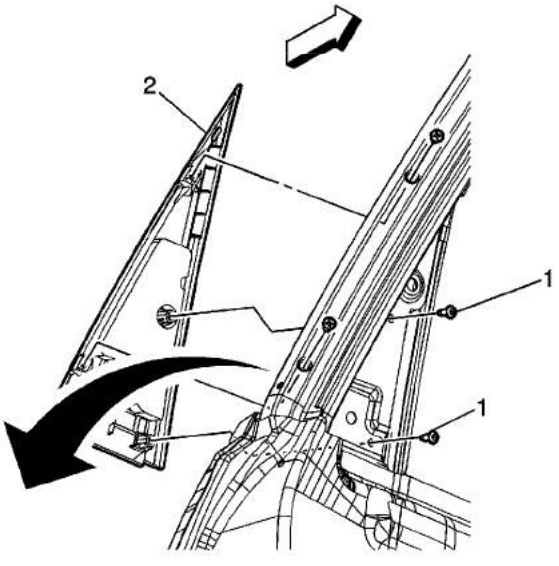
Rear Door Frame Applique Replacement





Callout	Component Name
1	Rear Side Door Frame Applique Screw (Qty: 2) **Caution:** Refer to Fastener Caution in the Preface section. **Procedure** Remove the rear inside door upper trim applique, pull rearward to release. **Tighten** 1.5 N·m (13 lb in)
2	Rear Side Door Frame Applique
3	Rear Side Door Front Frame Applique Screw (Qty: 4) **Procedure** 1. Loosen the front edge of the primary weatherstrip to expose the screws. 2. Place the rear door window in the full down position. **Tip** [redacted]

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	Tighten 1.5 N·m (13 lb in)
4	Rear Side Door Front Frame Applique **Tip** Pull the applique up and away from the outer seal weatherstrip.

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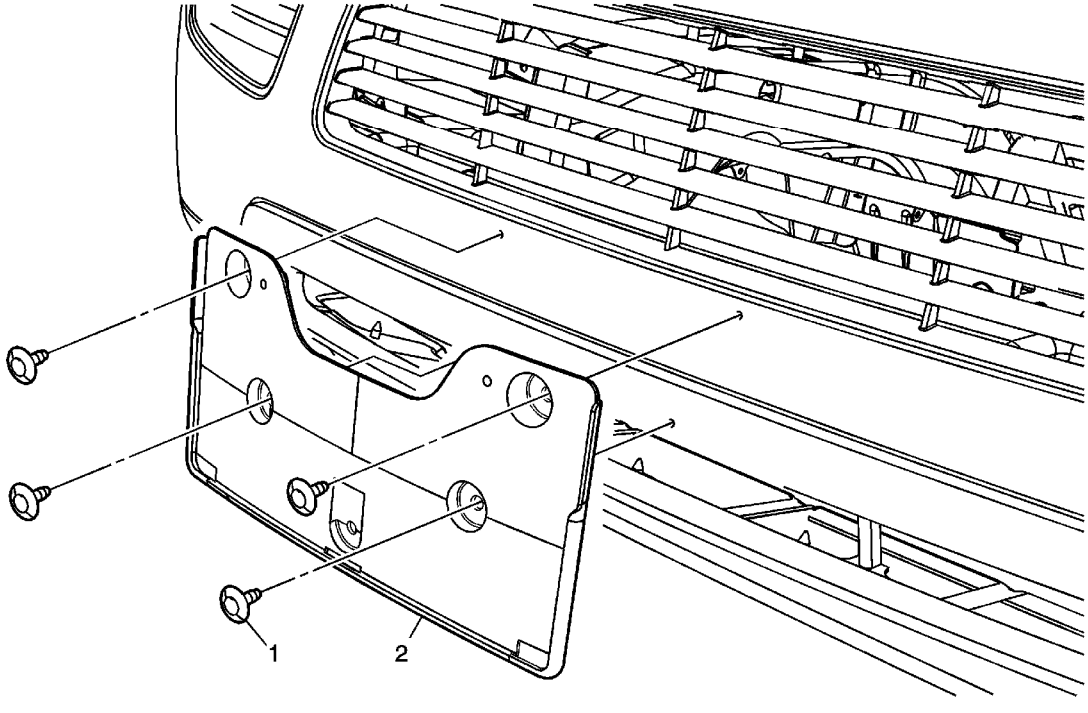
Front License Plate Bracket Replacement



Callout	Component Name
1	Front License Bracket Rivet (Qty: 4)
2	Front License Bracket

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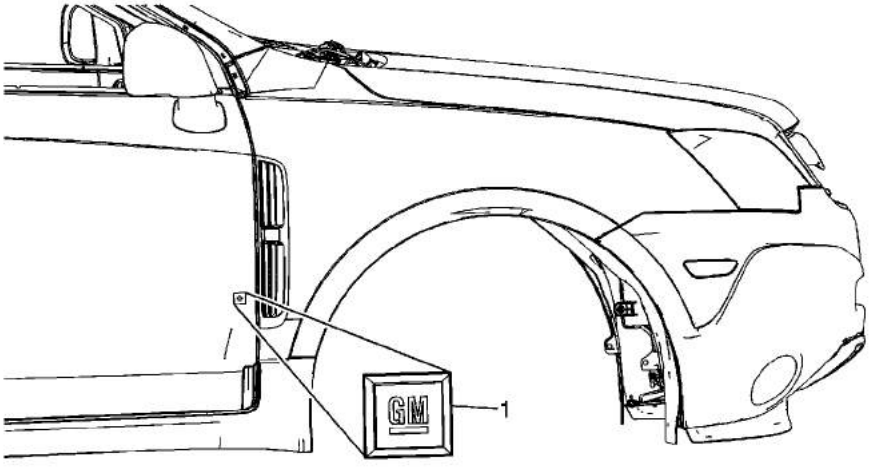
Front Side Door Emblem / Nameplate Replacement (VUE)



Callout	Component Name
1	Front Door Nameplate (GM) 1. When removing protective liners from adhesive backed nameplates, be careful not to touch the tape with hands and do not allow the tape to come in contact with dirt or any foreign matter prior to adhesion. 2. Use a J 25070 or equivalent to remove the old nameplate. Clean all the adhesive residue from the door, wipe the surface dry with a clean lint-free towel prior to installing the new GM nameplate. 3. Press the nameplate firmly to the front door in order to ensure full adhesion of the nameplate has been made. **Special Tools** J 25070 Heat Gun

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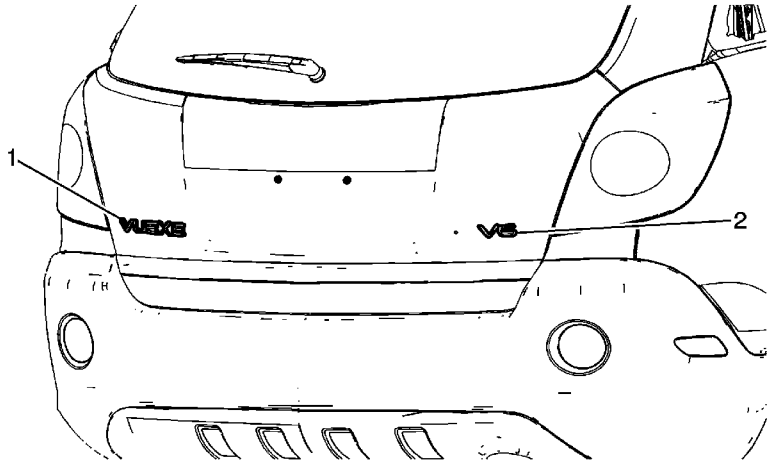
Liftgate Emblem / Nameplate Replacement (VUE)



Callout	Component Name
Special Tools J 25070 Heat Gun	
1	Emblem/Nameplate VUE XE **Caution:** Refer to Exterior Trim Emblem Removal Caution in the Preface section. **Procedure** 1. The part and surface should be 21°C (70°F) prior to installation. The vehicle should remain 21°C (70°F) for one hour after assembly to allow adhesive to develop sufficient bond strength. 2. Use a J 25070 or equivalent to remove the old emblem. Clean all adhesive from rear liftgate and wipe the surface dry with a clean lint-free towel prior to installing the new emblem/nameplate. 3. When removing protective liners from the adhesive tape, be careful not to touch tape with hands and do not allow tape to come in contact with dirt or any foreign matter prior to adhesion. 4. Close the liftgate. 5. Wet out the emblem and ensure full adhesion of the emblem to the liftgate is made.
	Emblem/Nameplate V6 **Caution:** Refer to Exterior Trim Emblem Removal Caution in the Preface section. **Procedure** [redacted]

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2	develop sufficient bond strength. 2. Use a J 25070 or equivalent to remove the old emblem. Clean all adhesive from rear liftgate and wipe the surface dry with a clean lint-free towel prior to installing the new emblem/nameplate. 3. When removing protective liners from the adhesive tape, be careful not to touch tape with hands and do not allow tape to come in contact with dirt or any foreign matter prior to adhesion. 4. Close the liftgate. 5. Wet out the emblem and ensure full adhesion of the emblem to the liftgate is made.

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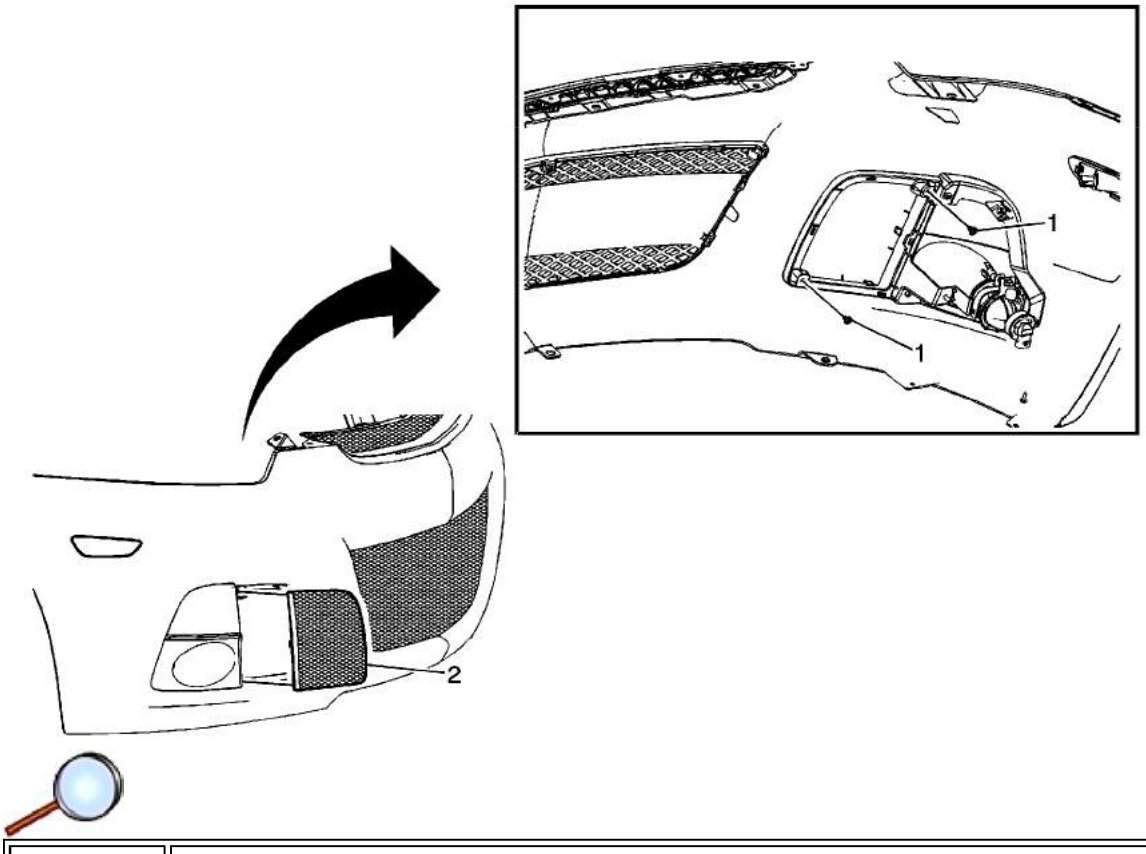
Front Bumper Lower Fascia Grille Replacement (Red Line Outer)



Callout	Component Name
Preliminary Procedure Remove the front bumper fascia. Refer to Front Bumper Fascia Replacement.	
1	Radiator Lower Grille Assembly Screw (Qty: 2) **Caution:** Refer to Fastener Caution in the Preface section. **Tighten** 4 N·m (35 lb in)
2	Radiator Lower Grille Assembly

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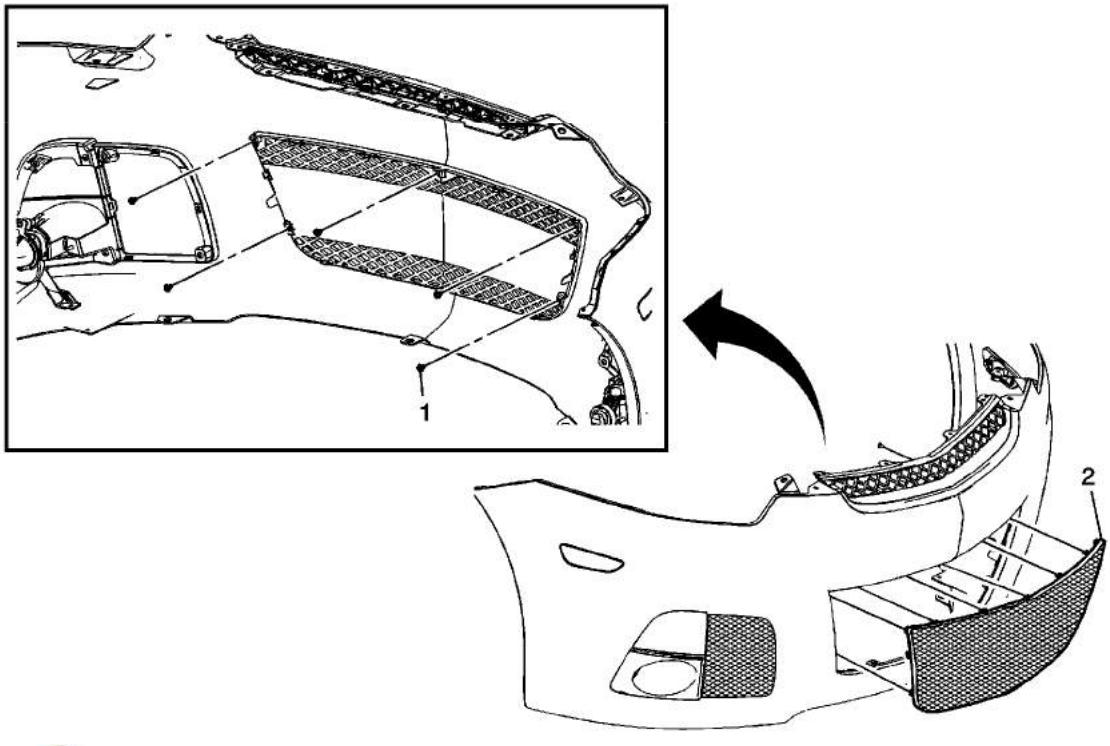
Front Bumper Lower Fascia Grille Replacement (Red Line Center)



Callout	Component Name
Preliminary Procedure Remove the front bumper fascia. Refer to Front Bumper Fascia Replacement.	
1	Radiator Lower Grille Assembly Screw (Qty: 5) **Caution:** Refer to Fastener Caution in the Preface section. **Tighten** 4 N·m (35 lb in)
2	Radiator Lower Grille Assembly **Tip** Release the outer tabs and push the grille assembly outward from the front lower bumper fascia.

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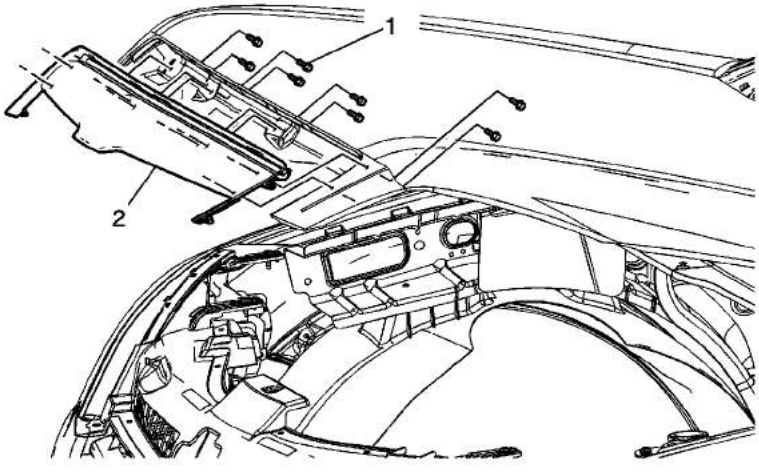
Radiator Upper Grille Replacement (Captiva)



Callout	Component Name
1	Radiator Upper Grille Assembly Nut (Qty: 8) **Caution:** Refer to Fastener Caution in the Preface section. **Tighten** 4 N·m (35 lb in)
2	Radiator Upper Grille Assembly

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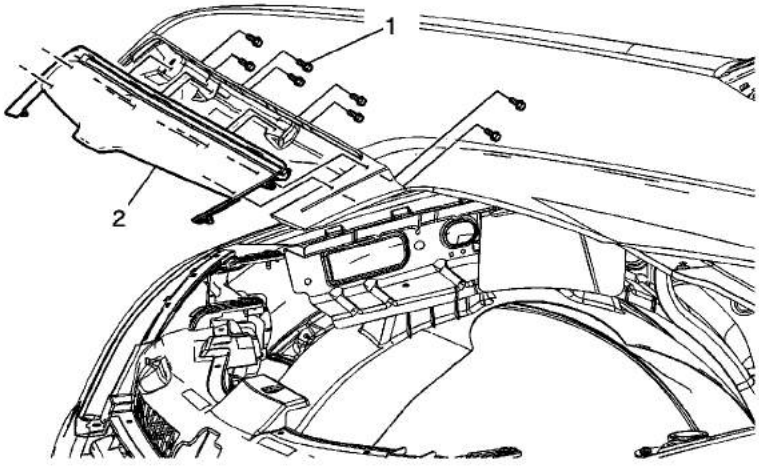
Radiator Upper Grille Replacement (VUE)



Callout	Component Name
1	Radiator Upper Grille Assembly Nut (Qty: 8) **Caution:** Refer to Fastener Caution in the Preface section. **Tighten** 4 N·m (35 lb in)
2	Radiator Upper Grille Assembly

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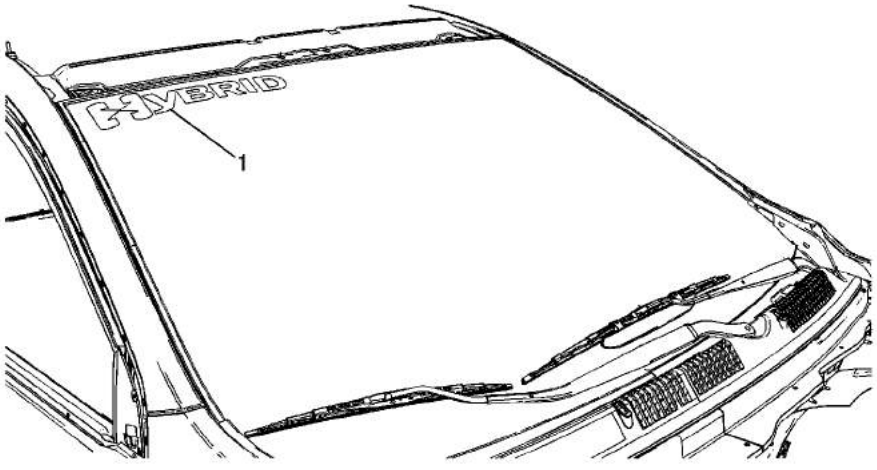
Windshield Name Decal Replacement



Callout	Component Name

Preliminary Procedures

1. Heat the windshield name decal using a *J-25070* gun or equivalent, 152 mm (6 in) from the glass surface.
2. Apply the heat using a circular motion, for about 30 seconds.

Caution: Refer to Exterior Trim Emblem Removal Caution in the Preface section.

3. Remove the decal from the surface using a plastic, flat-bladed tool.
4. Remove all adhesive from the surface using a 3M™ Scotch Brite molding adhesive remover disk, 3M™ P/N 07501, or equivalent.
5. Clean the surface using 3M™ General Purpose Adhesive Cleaner, P/N 08984 or equivalent.

Special Tools

J-25070 Heat Gun 500-750°F

1	Windshield Name Decal **Tip** The windshield name decal is serviced as one part.

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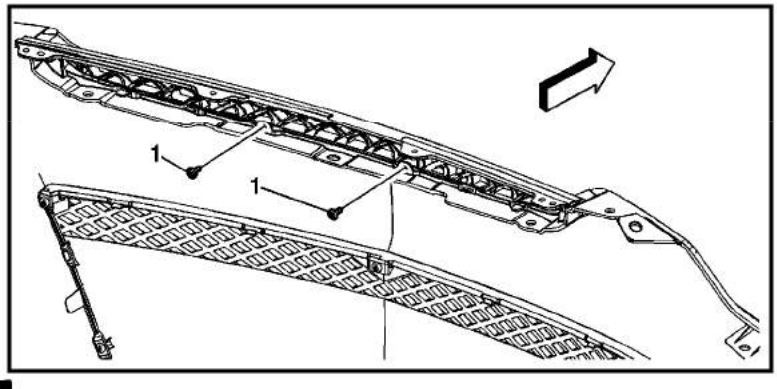
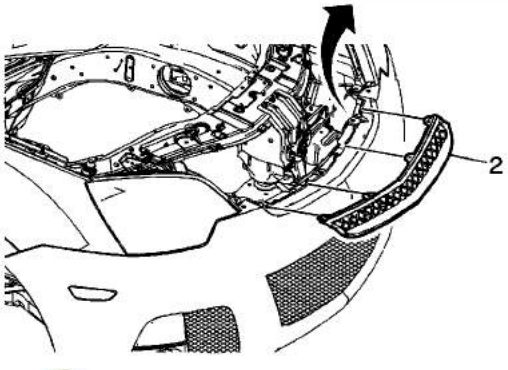
Radiator Lower Grille Replacement (Red Line)





Callout	Component Name
Preliminary Procedure Remove the radiator grille opening cover. Refer to Radiator Opening Upper Cover Replacement.	
1	Radiator Lower Grille Assembly Screw (Qty: 2) **Caution:** Refer to Fastener Caution in the Preface section. **Tighten** 4 N·m (35 lb in)
2	Radiator Lower Grille Assembly

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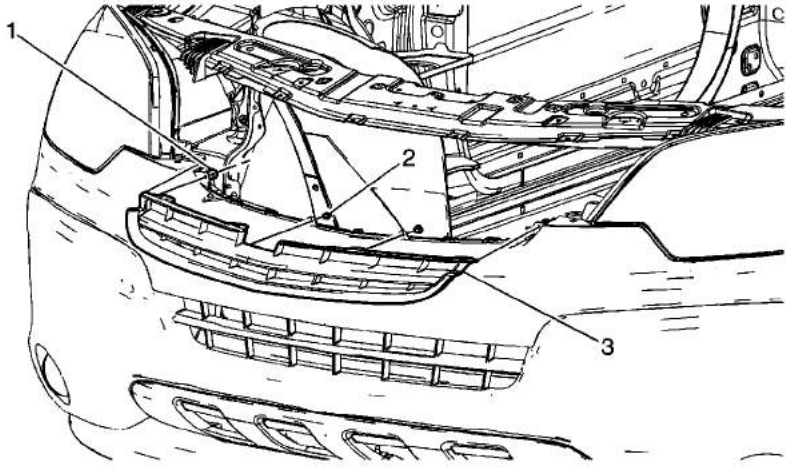
Radiator Lower Grille Replacement (VUE)



Callout	Component Name
Preliminary Procedure Remove the radiator grille upper opening cover. Refer to Radiator Opening Upper Cover Replacement.	
1	Radiator Lower Grille Assembly Nut (Qty: 2) **Caution:** Refer to Fastener Caution in the Preface section. **Tighten** 4 N·m (35 lb in)
2	Radiator Lower Grille Assembly Screw (Qty: 2) **Tighten** 4 N·m (35 lb in) **Tip** Remove the lower grille clip button from the lower center bumper fascia.
3	Radiator Lower Grille Assembly **Procedure** Transfer the grille molding to the new radiator lower grille assembly. Refer to Lower Grille Molding Replacement.

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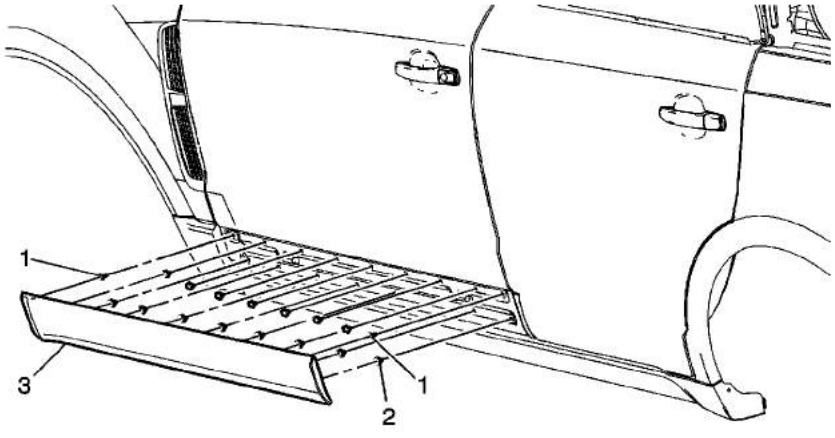
Front Side Door Lower Molding Replacement



Callout	Component Name
Preliminary Procedures 1. Open either the driver or passenger door to assist in removal of the lower door molding. 2. Remove the 2 front side door lower molding nuts securing the molding to the inner door.	
1	Lower Door Molding Locator Bolt/Pin (Qty: 2) **Procedure** 1. Align the outer pins to the door. 2. Align the retainers and apply pressure to the exterior lower door molding to seat. 3. Install the front side door lower molding nuts and finger tighten.
2	Lower Door Molding Retainer (Qty: 15) **Procedure** Release the lower retainers working upward on the molding.
3	Lower Door Molding Assembly **Tip** Ensure the door is in the closed position prior to installing the lower molding to the door.

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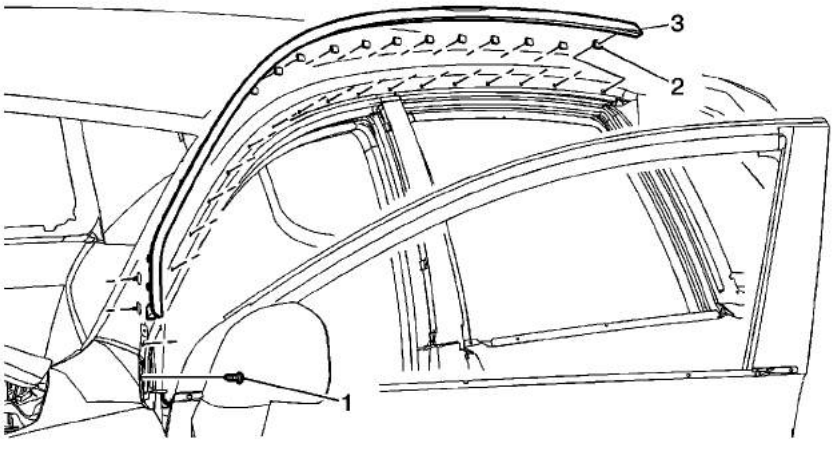
Front and Rear Side Door Opening Frame Reveal Molding Replacement



Callout	Component Name
Preliminary Procedures 1. Open the front door on the side the front and rear side door opening frame reveal molding assembly is being removed from. 2. Remove the front and rear side door opening frame reveal molding lower screw. 3. Working from front to rear, release the integral retainers securing the reveal molding to the body.	
1	Front and Rear Side Door Opening Frame Reveal Molding Screw **Caution:** Refer to Fastener Caution in the Preface section. **Tighten** 1.5 N·m (13 lb in)
2	Front and Rear Side Door Opening Frame Reveal Molding Retainer (Qty: 19) **Tip** Inspect and replace any plastic retainers nuts that are damaged.
3	Front and Rear Side Door Opening Frame Reveal Molding Assembly **Procedure** 1. Upon assembly of the front and rear side door opening frame reveal molding to the body, insert the locating boss at the rear edge of the molding to the front top side of the body, near the rear quarter window. 2. Align the retainers from the rear edge working towards the front.

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	4. Install the screw.

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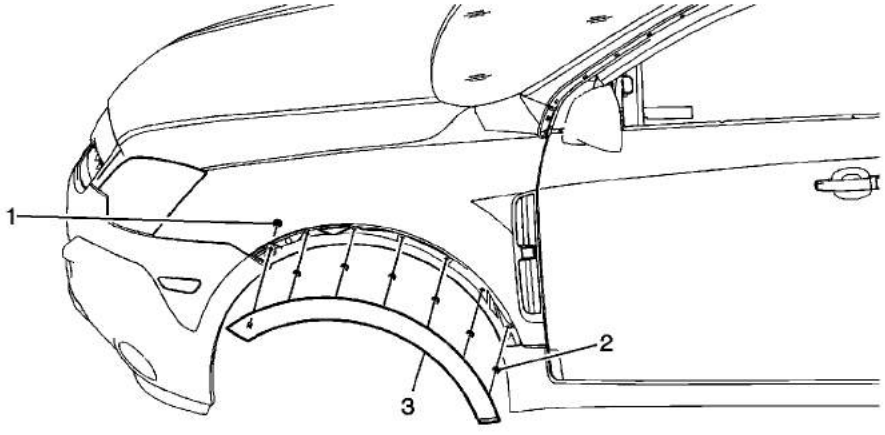
Front Fender Wheel Opening Molding Replacement



Callout	Component Name
Preliminary Procedures 1. Remove either the LF or RF wheelhouse liner. Refer to Front Wheelhouse Liner Replacement. 2. Remove the inner front wheel opening molding nut. 3. Release the retainers from the wheelhouse. 4. Release the front wheel opening molding from the front edge of the lower rocker panel molding. 5. Remove the front wheel opening molding from the vehicle.	
1	Front Fender Wheel Opening Molding Nut **Caution:** Refer to Fastener Caution in the Preface section. **Tip** Loosen the rear bolt at the rear of the front bumper fascia securing the fender flange to the front bumper fascia. **Tighten** 4.0 N·m (35 lb in)
2	Front Fender Wheel Opening Molding Retainer (Qty: 6) **Tip** Replace any broken retainers upon re-assembly.
3	Front Fender Wheel Opening Molding Assembly

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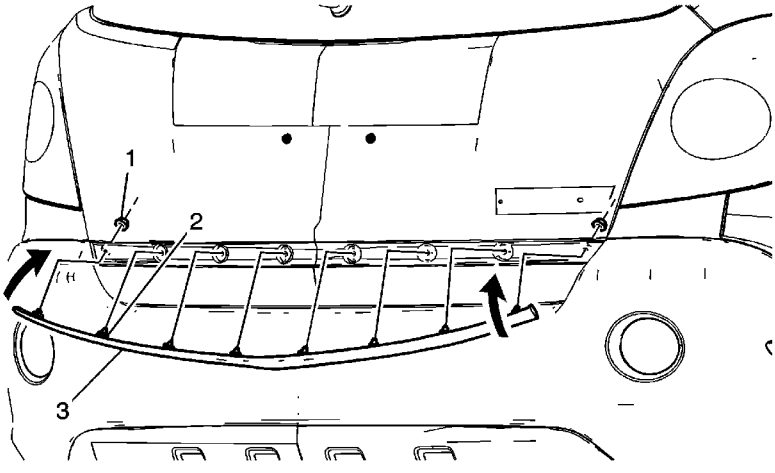
Liftgate Lower Molding Replacement



Callout	Component Name
Preliminary Procedure Open the rear liftgate in order to access the outer lower retainer nuts.	
1	Liftgate Lower Molding Nut (Qty: 2) **Caution:** Refer to Fastener Caution in the Preface section. **Tighten** 1.5 N·m (13 lb in)
2	Liftgate Lower Molding Retainer (Qty: 6) **Tip** Ensure the gaskets are in place on the retainers prior to installing the molding to the vehicle.
3	Liftgate Lower Molding

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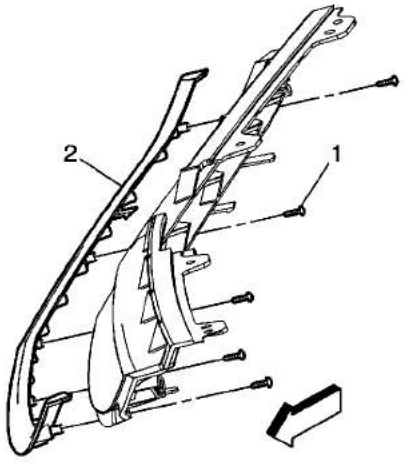
Lower Grille Molding Replacement



Callout	Component Name
Preliminary Procedure Remove the lower radiator grille. Refer to Radiator Lower Grille Replacement.	
1	Lower Radiator Grille to Molding Screw (Qty: 5) **Caution:** Refer to Fastener Caution in the Preface section. **Tighten** 1.5 N·m (13 lb in)
2	Radiator Lower Grille Molding **Procedure** Release the 2 integral retaining tabs securing the lower molding to the lower radiator grille.

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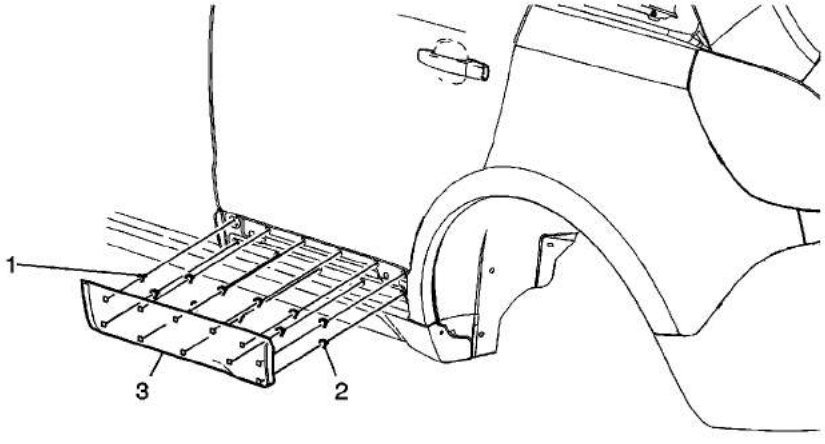
Rear Side Door Lower Molding Replacement



Callout	Component Name
Preliminary Procedures 1. Open either the LR or RR door assembly to assist with the removal process. 2. Remove the 1 rear side door lower front molding nut securing the molding to the inner door.	
1	Lower Door Molding Locator Pin **Procedure** 1. Align the front pin to the door. 2. Align the retainers and apply pressure to secure the molding to the lower door. 3. Install the rear door lower molding nut and finger tighten.
2	Lower Door Molding Retainer (Qty: 10) **Procedure** Release the lower retainers working upward on the molding.
3	Lower Door Molding Assembly **Tip** Ensure the door is in the closed position prior to installing the lower molding to the door.

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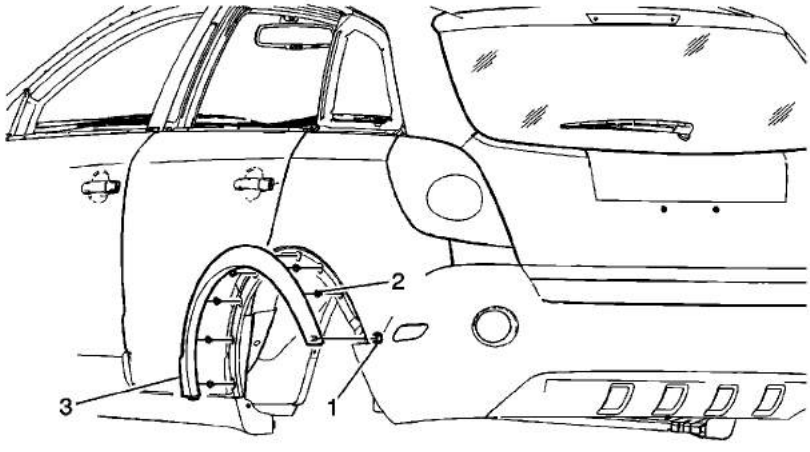
Rear Wheel Opening Molding Replacement



Callout	Component Name
Preliminary Procedures 1. Remove the rear wheelhouse liner. Refer to Rear Wheelhouse Panel Liner Replacement. 2. Remove the inner rear wheel opening molding nut. 3. Release the retainers from the wheelhouse. 4. Release the rear wheel opening molding from the rear edge of the lower rocker panel molding. 5. Remove the rear wheel opening molding from the vehicle.	
1	Rear Wheel Opening Nut **Caution:** Refer to Fastener Caution in the Preface section. **Tighten** 4.0 N·m(35 lb in)
2	Rear Wheel Opening Molding Retainer (Qty: 8) **Tip** Replace any broken retainers upon re-assembly.
3	Rear Wheel Opening Molding

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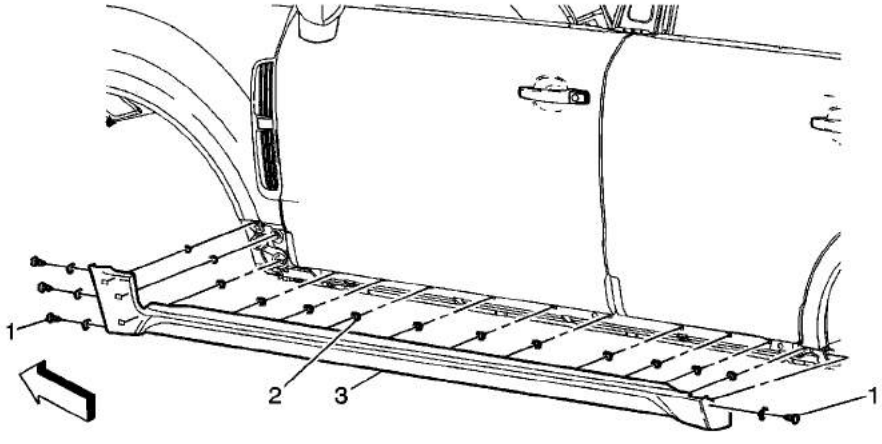
Rocker Panel Molding Replacement



Callout	Component Name
Preliminary Procedure Open the bodyside doors on the side the lower rocker moldings will be serviced from.	
1	Lower Rocker Molding Screw (Qty: 4) **Caution:** Refer to Fastener Caution in the Preface section. **Tighten** 1.5 N·m (13 lb in)
2	Rocker Panel Molding Retainer (Qty: 18) **Procedure** Release the 7 lower retainers first followed by the 11 upper retainers.
3	Rocker Panel Molding Assembly

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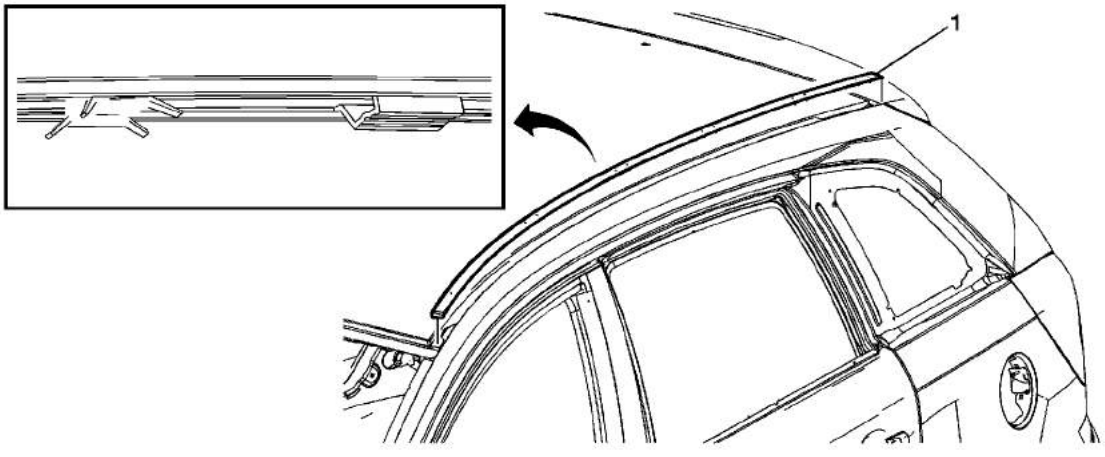
Roof Panel Joint Finish Molding Replacement (w/o V59)



Callout	Component Name
1	Roof Panel Exterior Molding **Procedure** 1. Remove the roof panel exterior molding starting at the rear of the vehicle. 2. Release the six molding retainers from the body panel. 3. Upon installation, position the front end of the molding over the forward body panel stud. 4. Position the molding by aligning the other 6 retainers to the body panel studs. 5. Secure the molding working from the front edge to the rear by pressing firmly the molding retainers onto the body panel studs.

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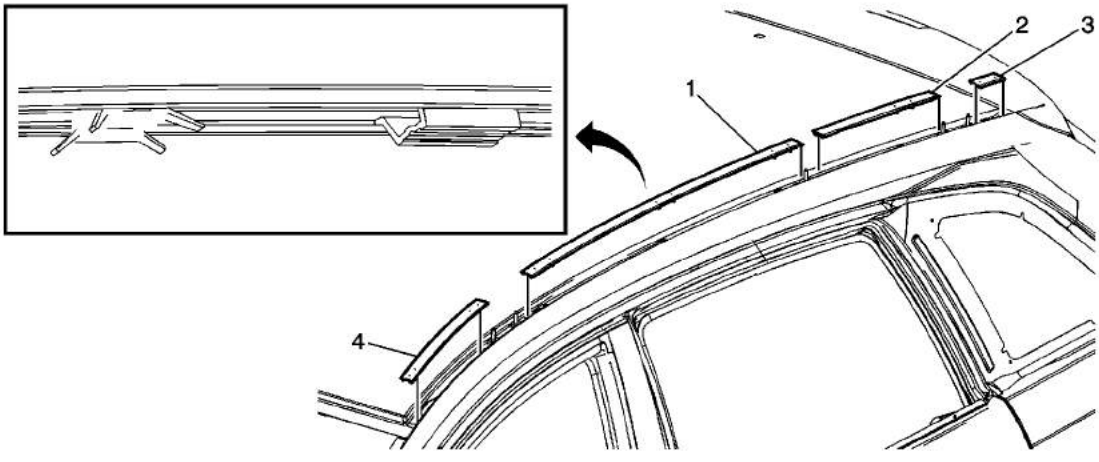
Roof Panel Joint Finish Molding Replacement (w/V59)



Callout	Component Name
1	Roof Center Drip Front Molding Assembly **Procedure** 1. Remove the luggage carrier rails. Refer to Luggage Carrier Replacement . 2. Remove the roof panel exterior molding starting at the rear of the molding while releasing the three integral retainers. 3. Release the molding retainers from the body panel. 4. Upon installation, position the front retainer into the panel, then secure the other three. 5. Secure the molding working from the front edge to the rear by pressing firmly the molding retainers into the body panel.
2	Roof Center Drip Rear Molding Assembly **Procedure** 1. Remove the roof panel exterior molding starting at the rear of the molding while releasing the integral retainer. 2. Release the molding retainer from the body panel. 3. Upon installation, position the rear retainer into the panel, and secure. 4. Press the remaining molding into the roof panel.
3	Roof Rear Drip Molding Assembly **Procedure** 1. Remove the roof panel exterior molding starting at the rear of the molding while releasing the integral retainer.

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	4. Press the remaining molding into the roof panel.
4	Roof Front Drip Molding **Procedure** 1. Remove the roof panel exterior molding starting at the rear of the molding then release the integral retainer. 2. Upon installation, position the retainer into the panel, and secure. 3. Press the remaining molding into the roof panel.

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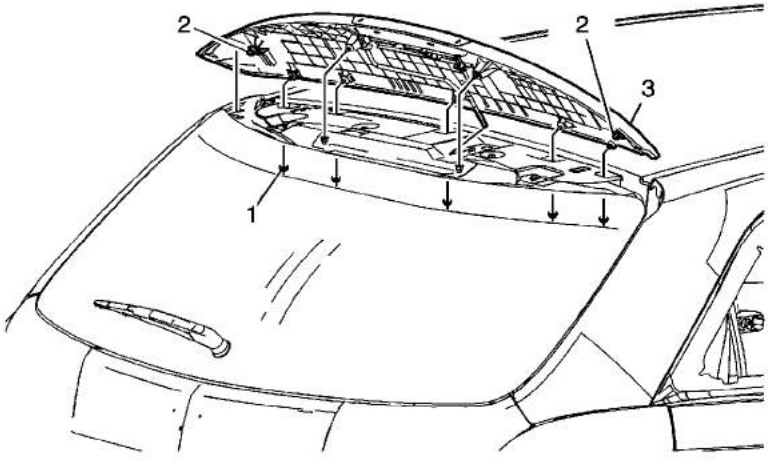
Rear Spoiler Replacement



Callout	Component Name
Preliminary Procedures 1. Open and support the rear liftgate assembly. 2. Remove the liftgate window garnish molding. Refer to Liftgate Garnish Molding Replacement.	
1	Spoiler Nut (Qty: 7) **Caution:** Refer to Fastener Caution in the Preface section. **Tighten** 4 N·m (35 lb in)
2	Button Nose Clip (Qty: 2)
3	Rear Spoiler **Procedure** 1. Release the button clips from the upper outer liftgate panel. 2. Close the rear liftgate in order to remove the spoiler assembly. 3. Disconnect the rear washer hose. 4. Disconnect the electrical connector for the rear high mounted stop lamp. 5. Remove the rear center high mounted stop lamp. Refer to High Mount Stop Lamp Replacement and transfer. 6. Ensure all the foam gaskets are in place on the button clips and retainer bolts prior to re-assembly of the spoiler onto the liftgate panel.

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