

2017 ACCESSORIES & EQUIPMENT

Exterior Trim - Encore, Trax

SPECIFICATIONS

FASTENER SPECIFICATIONS

Reusable Threaded Fastener Tightening Specifications

NOTE:

All fasteners listed in this table can be reused after removal.

Application	Specification
	Metric (English)
Front Grille Lower Bolt	2.5 N.m (22 lb in)
Liftgate Center Applique Nut	4.7 N.m (42 lb in)
Rear End Spoiler Bolt	5 N.m (44 lb in)
Rear Wheelhouse Liner Bolt	2.5 N.m (22 lb in)
Rocker Panel Front Molding Screw	2.5 N.m (22 lb in)

REPAIR INSTRUCTIONS

LIFTGATE EMBLEM/NAMEPLATE REPLACEMENT (TRAX)

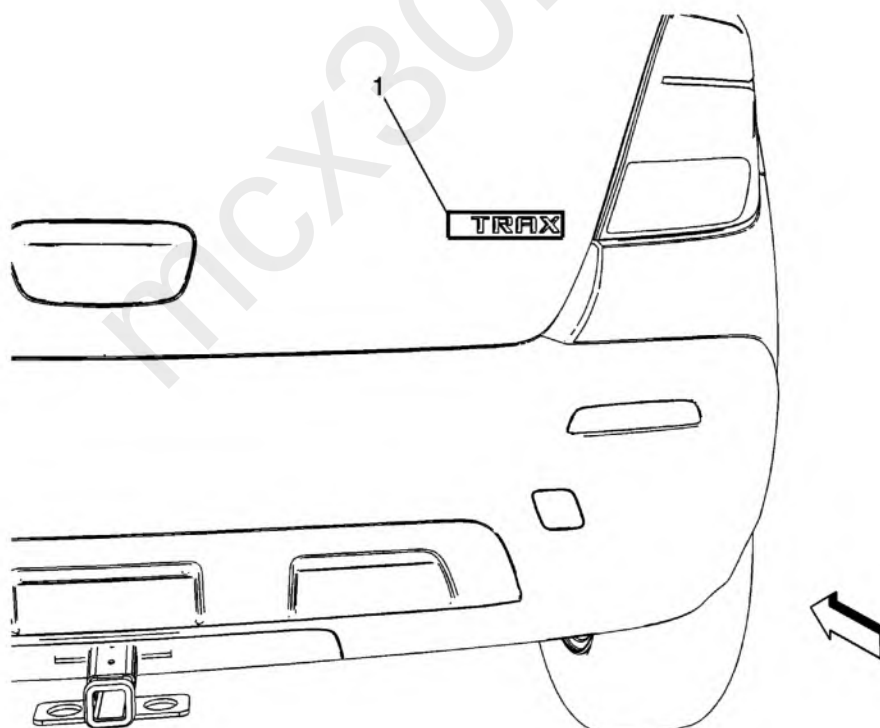


Fig. 1: Liftgate Emblem/Nameplate (Trax)

Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name

Callout	Component Name
1	Liftgate Vehicle Name Plate CAUTION: Refer to Exterior Trim Emblem Removal Caution . Procedure 1. The part and surface should be 21Â°C (70Â°F) prior to installation. The vehicle should remain 21Â°C (70Â°F) for one hour after assembly to allow adhesive to develop sufficient bond strength. 2. Use a heat gun or equivalent to remove the old name plate. Clean all adhesive from the liftgate and wipe the surface dry with a clean lint-free towel prior to installing the new name plate. 3. Wipe the vehicle surface area with a 50/50 solution by volume of isopropyl alcohol and clean drinkable water. 4. 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. 5. Use the alignment template or witness marks to position liftgate vehicle name plate. 6. Using the palm of the hand, wet out the liftgate vehicle name plate to the liftgate to ensure full adhesion is made.

LIFTGATE EMBLEM/NAMEPLATE REPLACEMENT (ENCORE)

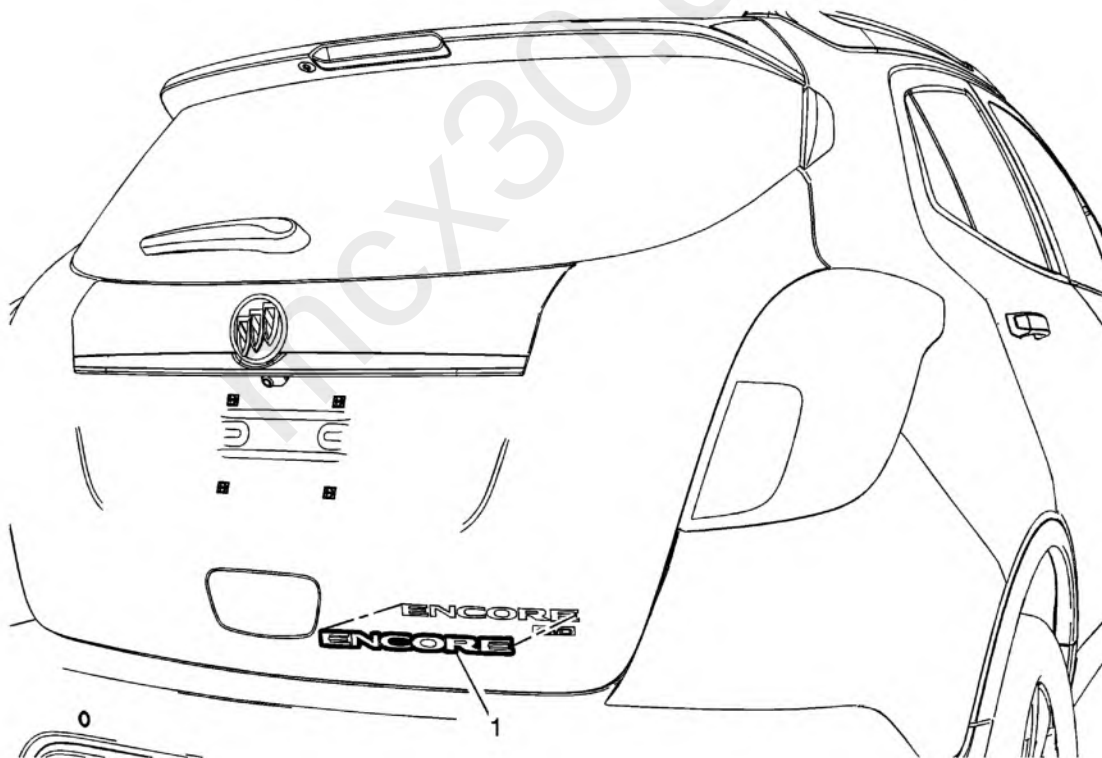


Fig. 2: Liftgate Emblem/Nameplate (Encore)
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name

Callout	Component Name
1	Liftgate Vehicle Name Plate CAUTION: Refer to Exterior Trim Emblem Removal Caution . Procedure 1. The part and surface should be 21Â°C (70Â°F) prior to installation. The vehicle should remain 21Â°C (70Â°F) for one hour after assembly to allow adhesive to develop sufficient bond strength. 2. Use a heat gun or equivalent to remove the old name plate. Clean all adhesive from the liftgate and wipe the surface dry with a clean lint-free towel prior to installing the new name plate. 3. Wipe the vehicle surface area with a 50/50 solution by volume of isopropyl alcohol and clean drinkable water. 4. 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. 5. Use the alignment template or witness marks to position liftgate vehicle name plate. 6. Using the palm of the hand, wet out the liftgate vehicle name plate to the liftgate to ensure full adhesion is made.

LIFTGATE EMBLEM/NAMEPLATE REPLACEMENT (BUICK)

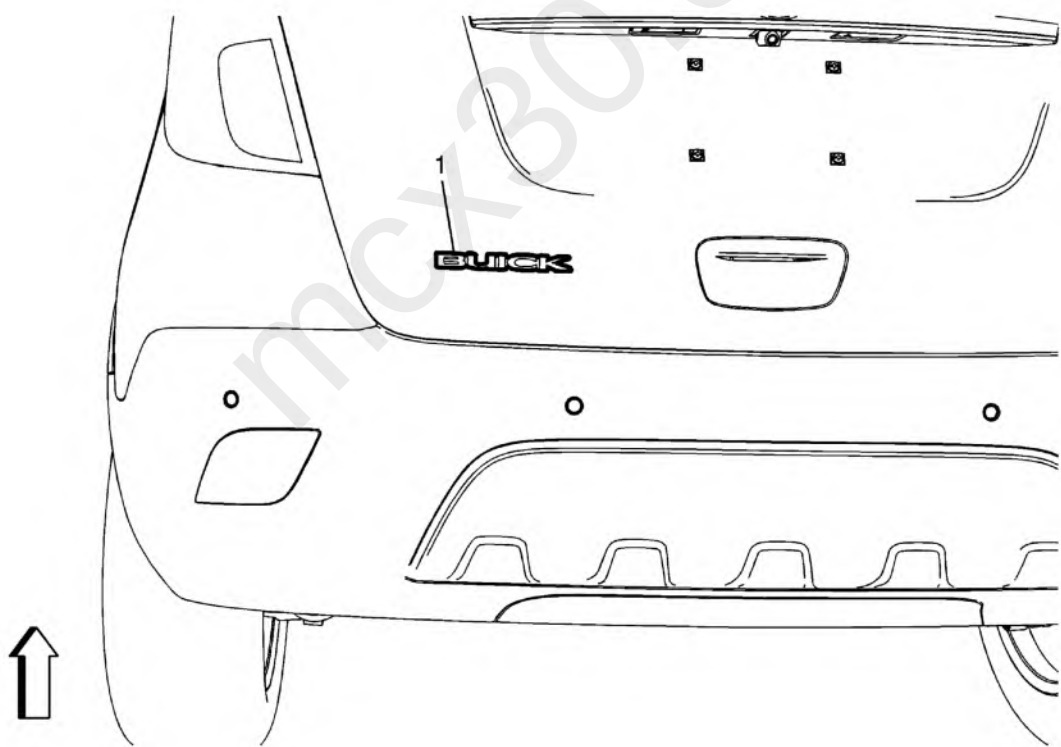


Fig. 3: Liftgate Emblem/Nameplate (Encore)
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name

Callout	Component Name
1	Liftgate Vehicle Name Plate CAUTION: Refer to Exterior Trim Emblem Removal Caution . Procedure 1. The part and surface should be 21Â°C (70Â°F) prior to installation. The vehicle should remain 21Â°C (70Â°F) for one hour after assembly to allow adhesive to develop sufficient bond strength. 2. Use a heat gun or equivalent to remove the old name plate. Clean all adhesive from the liftgate and wipe the surface dry with a clean lint-free towel prior to installing the new name plate. 3. Wipe the vehicle surface area with a 50/50 solution by volume of isopropyl alcohol and clean drinkable water. 4. 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. 5. Use the alignment template or witness marks to position liftgate vehicle name plate. 6. Using the palm of the hand, wet out the liftgate vehicle name plate to the liftgate to ensure full adhesion is made.

LIFTGATE EMBLEM/NAMEPLATE REPLACEMENT (ENCORE AWD)

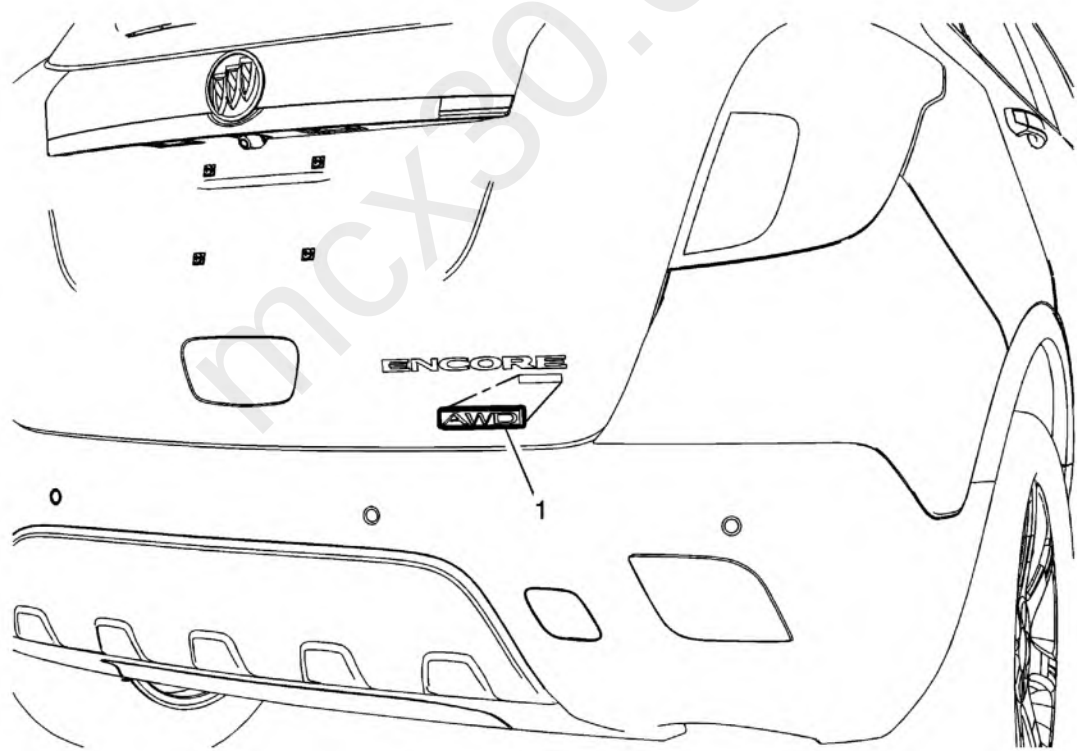


Fig. 4: Liftgate Emblem/Nameplate (Encore AWD).
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name

Callout	Component Name
1	Liftgate Vehicle Name Plate CAUTION: Refer to Exterior Trim Emblem Removal Caution . Procedure 1. The part and surface should be 21Â°C (70Â°F) prior to installation. The vehicle should remain 21Â°C (70Â°F) for one hour after assembly to allow adhesive to develop sufficient bond strength. 2. Use a heat gun or equivalent to remove the old name plate. Clean all adhesive from the liftgate and wipe the surface dry with a clean lint-free towel prior to installing the new name plate. 3. Wipe the vehicle surface area with a 50/50 solution by volume of isopropyl alcohol and clean drinkable water. 4. 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. 5. Use the alignment template or witness marks to position liftgate vehicle name plate. 6. Using the palm of the hand, wet out the liftgate vehicle name plate to the liftgate to ensure full adhesion is made.

LIFTGATE EMBLEM/NAMEPLATE REPLACEMENT (TRAX LS)



Fig. 5: Liftgate Emblem/Nameplate (Trax LS)
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name

Callout	Component Name
1	Liftgate Vehicle Name Plate CAUTION: Refer to Exterior Trim Emblem Removal Caution . Procedure 1. The part and surface should be 21Â°C (70Â°F) prior to installation. The vehicle should remain 21Â°C (70Â°F) for one hour after assembly to allow adhesive to develop sufficient bond strength. 2. Use a heat gun or equivalent to remove the old name plate. Clean all adhesive from the liftgate and wipe the surface dry with a clean lint-free towel prior to installing the new name plate. 3. Wipe the vehicle surface area with a 50/50 solution by volume of isopropyl alcohol and clean drinkable water. 4. 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. 5. Use the alignment template or witness marks to position liftgate vehicle name plate. 6. Using the palm of the hand, wet out the liftgate vehicle name plate to the liftgate to ensure full adhesion is made.

BODY SIDE UPPER FRONT APPLIQUE REPLACEMENT

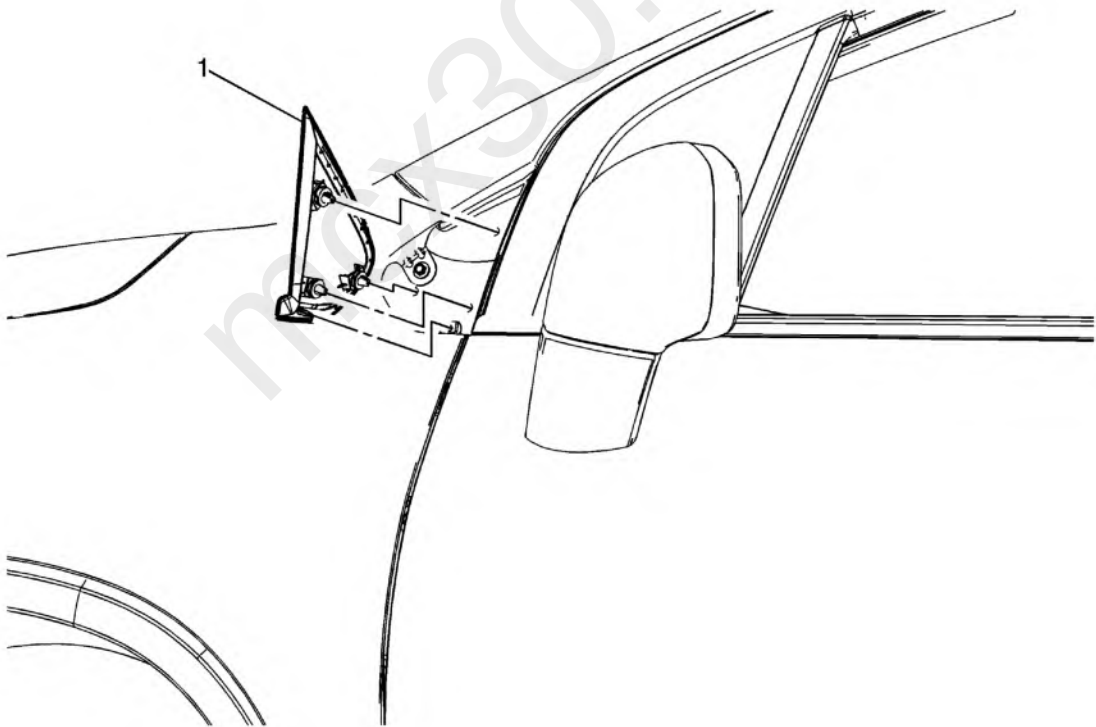


Fig. 6: Body Side Upper Front Applique
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
	CAUTION: Refer to Exterior Trim Emblem Removal Caution . Preliminary Procedure Open the front door.

Callout	Component Name
1	Body Side Upper Front Applique Procedure 1. Using a trim type release tool, disengage the rear lower clip from the body side outer panel. 2. Gently pull the body side upper front applique away from the vehicle to disengage the two remaining clips. 3. Upon installation, using the palm of the hand secure each retainer location until fully seated to the body side outer panel and front fender.

FRONT SIDE DOOR WINDOW FRAME REAR APPLIQUE REPLACEMENT

Stripes or Decals

The stripes and decals adhere to a painted surface using pressure sensitive adhesive.

The use of a wetting solution aids the technician in lifting and positioning the stripe or decal during the installation. The wetting solution ensures a better bond between the stripe or decal and the panel assembly. Use a wetting solution when applying large stripe and decal packages.

Complete the following procedures before you apply a stripe or a decal:

1. Metal repair or refinishing after a collision
2. Painting the underlying surface

Maintain a temperature 21-38°C (70-100°F) on the body surfaces and the decals prior to installation. The decal requires auxiliary heat sources in order to warm the body surfaces and decals. If the temperature is below 21°C (70°F) the decal may not adhere to the body surface properly.

NOTE: You may apply stripes or decals using the dry method. Use the wet method if the dry method does not result in a bubble free application. This may be the case in large graphics packages.

Use the wet method in order to apply the stripes or decals that are applied on flexible surfaces (fascias, etc.). This will reduce the formation of bubbles under the decal due to the outgassing potential of the flexible materials.

Use the following equipment and materials in order to apply a stripe or a decal:

- A wetting solution
 - A foaming type of window cleaner that does not contain ammonia.
- A silicone, wax and grease remover
- Varnish Makers and Painters (VM&P) Naptha
- Isopropyl alcohol
- A squeegee
 - 75-100 mm (3-4 in) wide
 - Made of plastic or hard rubber

Deburr any sharp or rough edges in order to prevent scratching of the stripe or decal.

- A water bucket and sponge or spray bottle
- Sandpaper
 - 800 grit or finer
 - Wet or dry type

- A heat gun
- A clean, lint-free wiping cloth
- A sharp knife or razor blade
- A pair of scissors
- A fine pin or needle
- A marking pencil

Stripe or Decal Removal

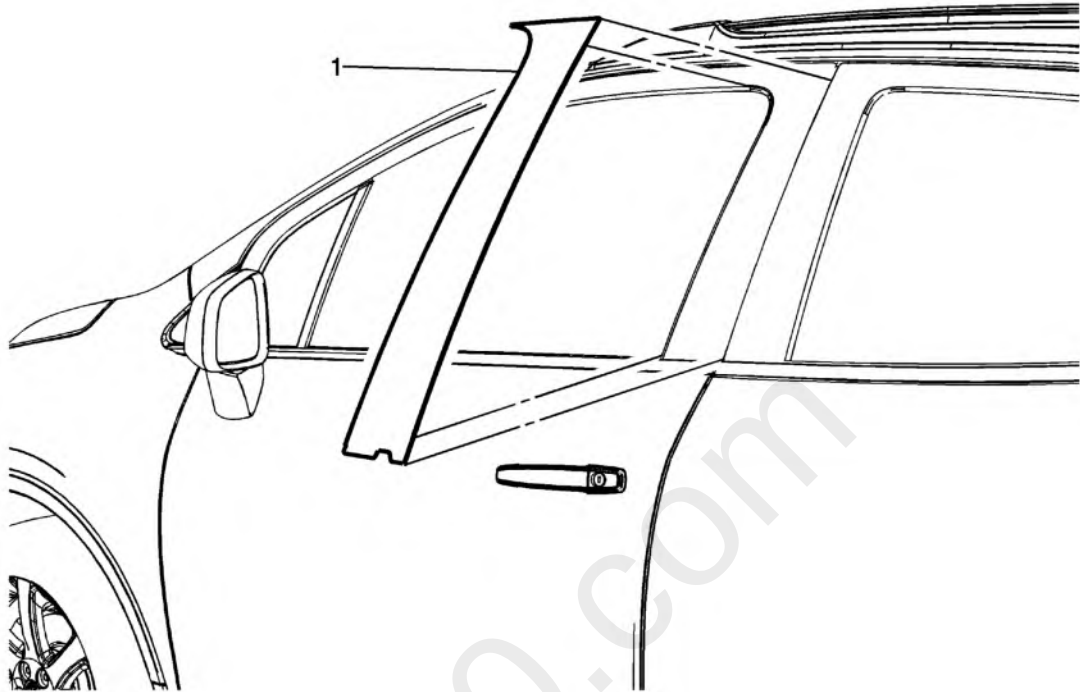


Fig. 7: Stripe Or Decal

Courtesy of GENERAL MOTORS COMPANY

1. Remove the following components:
 - Necessary moldings or trim panel
 - Molding attaching clips
 - Weatherstrips or sealing strips
 - Handles
 - Sidemarker lamps
 - Other stripe or decal overlapping parts
2. Clean the following areas as needed:
 - The repair surfaces
 - The adjacent panels
 - The openings
3. Use 3M™ ScotchBrite molding adhesive remover disk 3M™ P/N 07502 or equivalent in order to remove the stripe or decal from the body panel.
4. Use Varnish Makers and Painters (VM&P) Naptha to remove all traces of adhesive residue from the painted surfaces.

Stripe or Decal Installation - Wet Method

1. Prepare the surface.

NOTE: Remove any imperfections that would appear through the stripe or decal if the area has been refinished.

Clean the painted surface using the following types of removers:

- Silicone
 - Wax
 - Grease
2. Clean the area where the stripe or decal will be applied using a 50-50 mixture of isopropyl alcohol and water.
 3. Wipe the panel surface using a clean cloth while the solvent is still wet. Allow the panel surface to dry.
 4. Apply the wetting solution to the area where you are installing the stripe or decal.

Application of a soapy wetting solution on the top side of the stripe or decal will ease the pull of the squeegee on the stripe or decal.

NOTE: Do not touch the adhesive backing of the stripes.

Apply the wetting solution on the adhesive side of the stripe or decal.

Remove the backing material of the stripe or the decal as needed.

5. Apply the strip, tape or decal (1) to the panel. The wetting solution will allow movement for proper positioning on the panel surface.
6. Working from the center where possible, squeegee the stripe or decal into position. Apply additional wetting solution as needed to ease installation.
7. Apply heat to the stripe or decal at the recessed areas. Press the stripe or decal into the recess to obtain a firm bond.
8. Use adequate light reflection to inspect the stripe or decal from a critical angle. This technique detects any irregularities that may have developed during the installation.

NOTE: Do not use a razor blade or a knife edge to pierce the air bubbles.

Remove all air bubbles by piercing the bubble with one of the following items:

- A safety pin
 - A needle
 - A tool with the same size piercing tip
9. Pierce the bubble on the outer edge. Force the air out from the opposite edge using the blade of the squeegee.

LIFTGATE CENTER APPLIQUE REPLACEMENT (CHEVROLET)

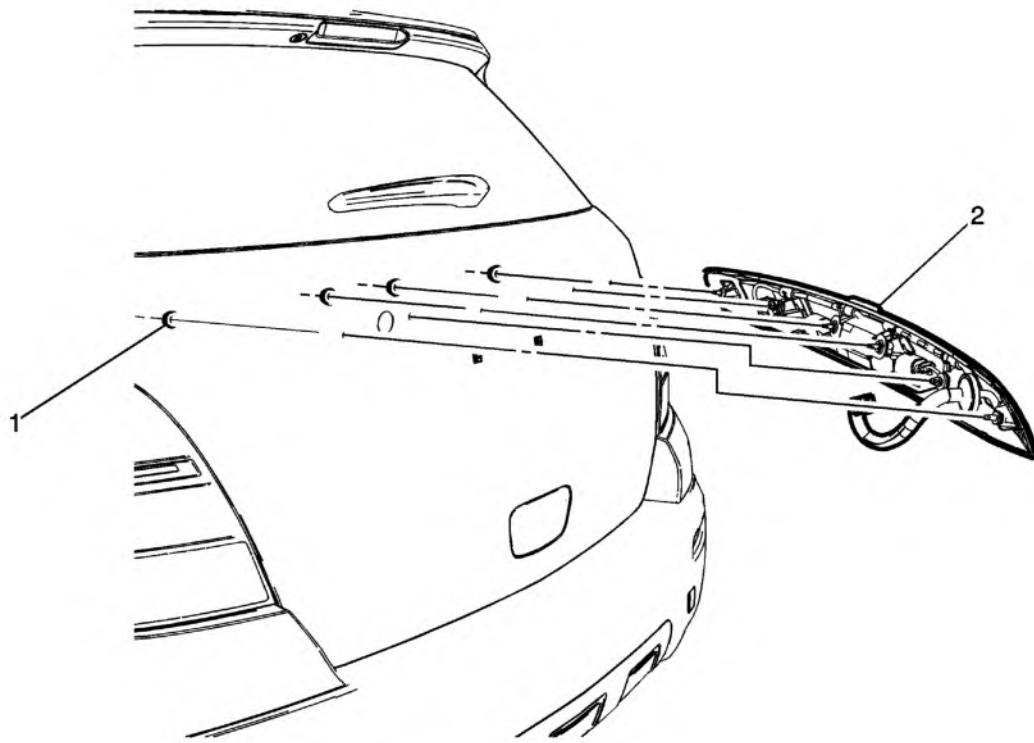


Fig. 8: Liftgate Center Applique (Trax)
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedures 1. Open and support the rear liftgate. 2. Remove the liftgate lower trim finish panel. Refer to Liftgate Lower Trim Finish Panel Replacement.	
1	Liftgate Center Applique Nut (Qty: 4) CAUTION: Refer to Fastener Caution . Tighten 4.7 N.m (42 lb in)
2	Liftgate Applique Procedure 1. Disconnect the electrical connectors. 2. Disengage the electrical grommet from the liftgate outer panel. 3. With a trim type release tool disengage the two retainers on the liftgate center applique. 4. Remove the liftgate center applique.

LIFTGATE CENTER APPLIQUE REPLACEMENT (BUICK)

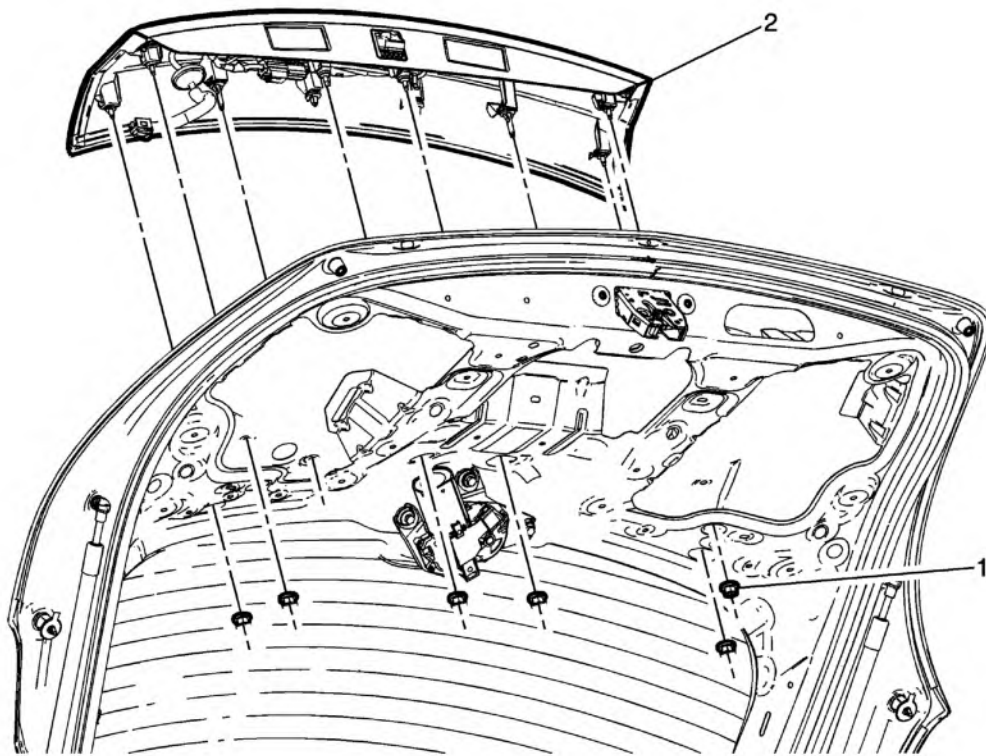


Fig. 9: Liftgate Center Applique (Encore)
 Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedures 1. Open and support the rear liftgate. 2. Remove the liftgate lower trim finish panel. Refer to Liftgate Lower Trim Finish Panel Replacement.	
1	Liftgate Center Applique Nut (Qty: 6) CAUTION: Refer to Fastener Caution . Tighten 4.7 N.m (42 lb in)
2	Liftgate Center Applique Procedure 1. Disconnect the electrical connector. 2. Disengage the grommet from the liftgate outer panel. 3. With a trim type release tool disengage the retainers on the liftgate center applique. 4. Remove the liftgate center applique.

LIFTGATE SIDE APPLIQUE REPLACEMENT (CHEVROLET)

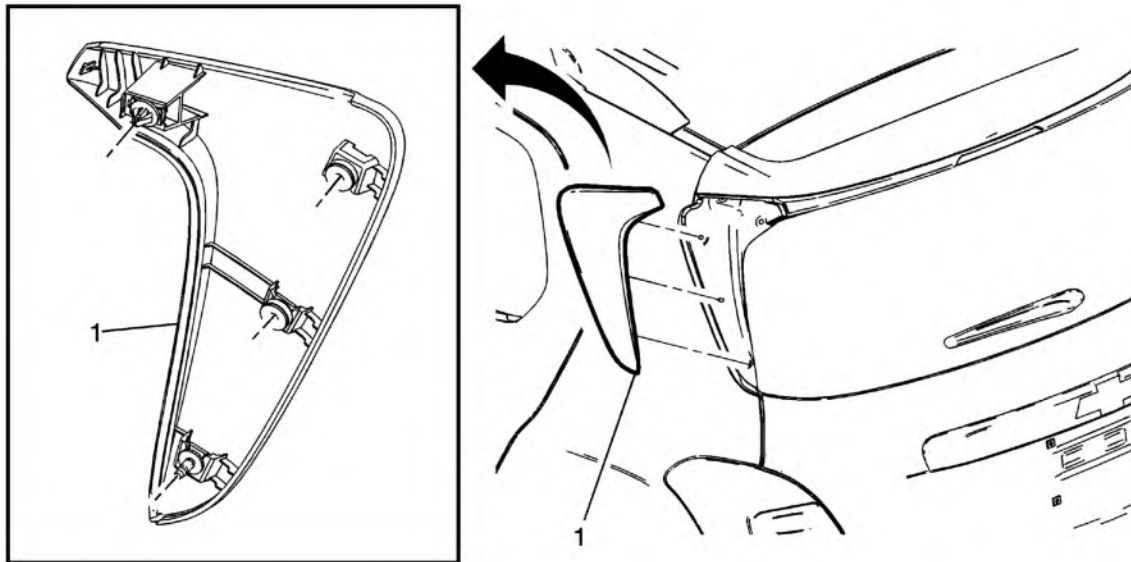


Fig. 10: Liftgate Side Applique (Trax)
 Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure 1. Reposition the rear end spoiler. Refer to Rear End Spoiler Replacement. 2. Remove the liftgate center applique. Refer to Liftgate Center Applique Replacement (Chevrolet).	
1	Liftgate Side Applique Procedure 1. Gently pull up on the bottom portion of the liftgate side applique and use a trim type release tool to release the bottom retainer. NOTE: Apply a suitable tape to the body side outer frame to protect the paint. Do not use the trim type release tool on the liftgate window surface. 2. Release the next 2 retainers from the bottom to the top. 3. Reposition the rear end spoiler by lifting up the end being serviced. 4. Rotate the liftgate side applique to access and release the top retainer. 5. Replace damaged retainers as needed.

LIFTGATE SIDE APPLIQUE REPLACEMENT (BUICK)

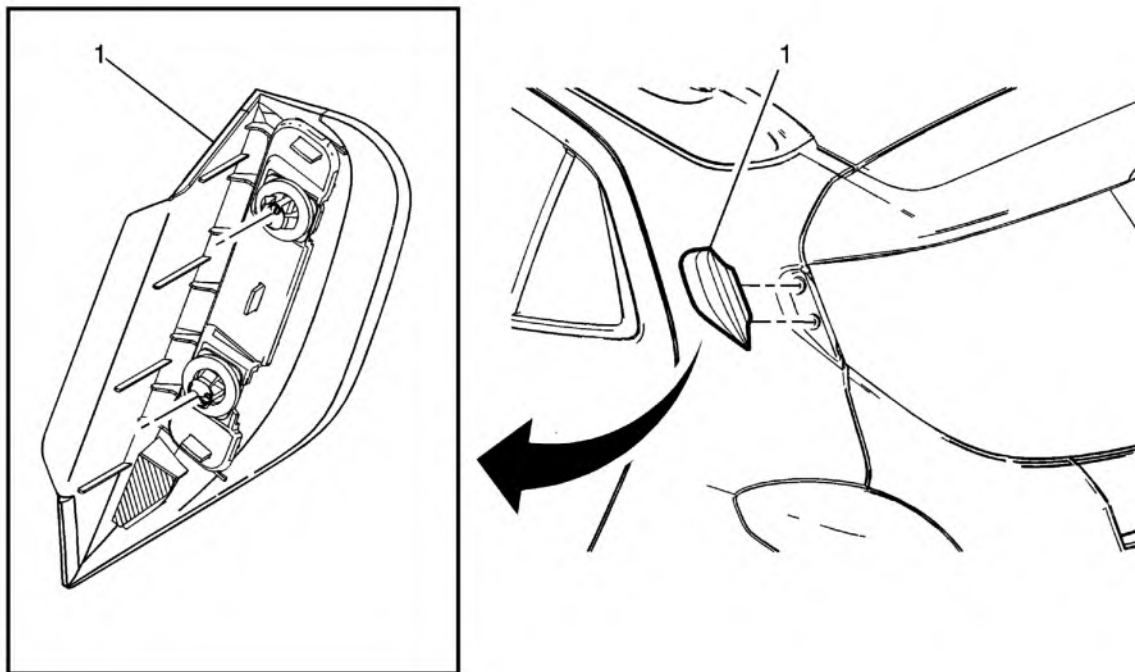


Fig. 11: Liftgate Side Applique (Encore)
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Liftgate Side Applique Procedure 1. The part and surface should be 21Â°C (70Â°F) prior to installation. The vehicle should remain 21Â°C (70Â°F) for one hour after assembly to allow adhesive to develop sufficient bond strength. 2. Apply a suitable tape around the liftgate side applique. 3. Use a heat gun or equivalent to loosen the tape on the lower section of the liftgate side applique. Use a plastic flat bladed tool to assist in removal. 4. Using a suitable trim-type release tool start from the top edge and release the 2 retainers. 5. Clean any remaining residue with a 50/50 mixture by volume of isopropyl alcohol and clean drinkable water. Wipe surface dry with a clean lint-free towel. 6. When removing protective liner 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. 7. Using the palm of the hand, apply even pressure to the liftgate side applique to ensure the retainers are seated and full adhesion is made.

REAR SIDE DOOR WINDOW FRAME FRONT APPLIQUE TAPE REPLACEMENT

Stripes or Decals

The stripes and decals adhere to a painted surface using pressure sensitive adhesive.

The use of a wetting solution aids the technician in lifting and positioning the stripe or decal during the installation. The wetting solution ensures a better bond between the stripe or decal and the panel assembly. Use a wetting solution when applying large stripe and decal packages.

Complete the following procedures before you apply a stripe or a decal:

1. Metal repair or refinishing after a collision
2. Painting the underlying surface

Maintain a temperature 21-38°C (70-100°F) on the body surfaces and the decals prior to installation. The decal requires auxiliary heat sources in order to warm the body surfaces and decals. If the temperature is below 21°C (70°F) the decal may not adhere to the body surface properly.

NOTE: You may apply stripes or decals using the dry method. Use the wet method if the dry method does not result in a bubble free application. This may be the case in large graphics packages.

Use the wet method in order to apply the stripes or decals that are applied on flexible surfaces (fascias, etc.). This will reduce the formation of bubbles under the decal due to the outgassing potential of the flexible materials.

Use the following equipment and materials in order to apply a stripe or a decal:

- A wetting solution
 - A foaming type of window cleaner that does not contain ammonia.
- A silicone, wax and grease remover
- Varnish Makers and Painters (VM&P) Naptha
- Isopropyl alcohol
- A squeegee
 - 75-100 mm (3-4 in) wide
 - Made of plastic or hard rubber

Deburr any sharp or rough edges in order to prevent scratching of the stripe or decal.

- A water bucket and sponge or spray bottle
- Sandpaper
 - 800 grit or finer
 - Wet or dry type
- A heat gun
- A clean, lint-free wiping cloth
- A sharp knife or razor blade
- A pair of scissors
- A fine pin or needle
- A marking pencil

Stripe or Decal Removal

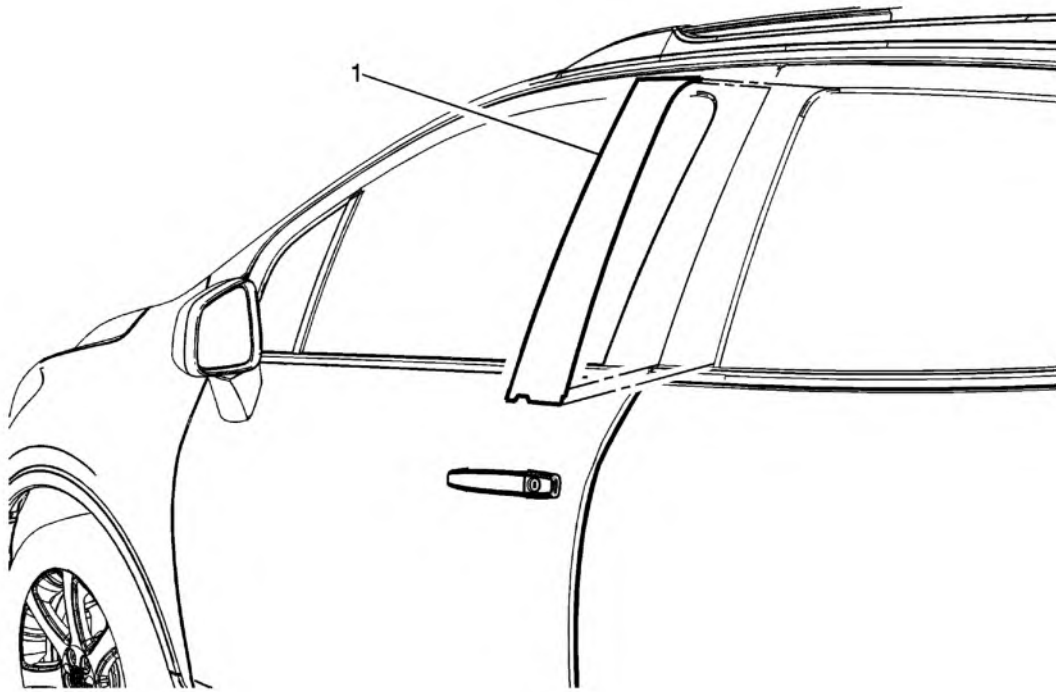


Fig. 12: Stripe Or Decal On Trim Panel
Courtesy of GENERAL MOTORS COMPANY

1. Remove the following components:
 - Necessary moldings or trim panel
 - Molding attaching clips
 - Weatherstrips or sealing strips
 - Handles
 - Sidemarker lamps
 - Other stripe or decal overlapping parts
2. Clean the following areas as needed:
 - The repair surfaces
 - The adjacent panels
 - The openings
3. Use 3M™ ScotchBrite molding adhesive remover disk 3M™ P/N 07502 or equivalent in order to remove the stripe or decal from the body panel.
4. Use Varnish Makers and Painters (VM&P) Naptha to remove all traces of adhesive residue from the painted surfaces.

Stripe or Decal Installation - Wet Method

1. Prepare the surface.

NOTE: Remove any imperfections that would appear through the stripe or decal if the area has been refinished.

Clean the painted surface using the following types of removers:

- Silicone
 - Wax
 - Grease
2. Clean the area where the stripe or decal will be applied using a 50-50 mixture of isopropyl alcohol and water.

3. Wipe the panel surface using a clean cloth while the solvent is still wet. Allow the panel surface to dry.
4. Apply the wetting solution to the area where you are installing the stripe or decal.

Application of a soapy wetting solution on the top side of the stripe or decal will ease the pull of the squeegee on the stripe or decal.

NOTE: Do not touch the adhesive backing of the stripes.

Apply the wetting solution on the adhesive side of the stripe or decal.

Remove the backing material of the stripe or the decal as needed.

5. Apply the strip or decal (1) to the panel. The wetting solution will allow movement for proper positioning on the panel surface.
6. Working from the center where possible, squeegee the stripe or decal into position. Apply additional wetting solution as needed to ease installation.
7. Apply heat to the stripe or decal at the recessed areas. Press the stripe or decal into the recess to obtain a firm bond.
8. Use adequate light reflection to inspect the stripe or decal from a critical angle. This technique detects any irregularities that may have developed during the installation.

NOTE: Do not use a razor blade or a knife edge to pierce the air bubbles.

Remove all air bubbles by piercing the bubble with one of the following items:

- A safety pin
 - A needle
 - A tool with the same size piercing tip
9. Pierce the bubble on the outer edge. Force the air out through the opposite edge using the blade of the squeegee.

FRONT FOG LAMP OPENING COVER REPLACEMENT (BUICK)

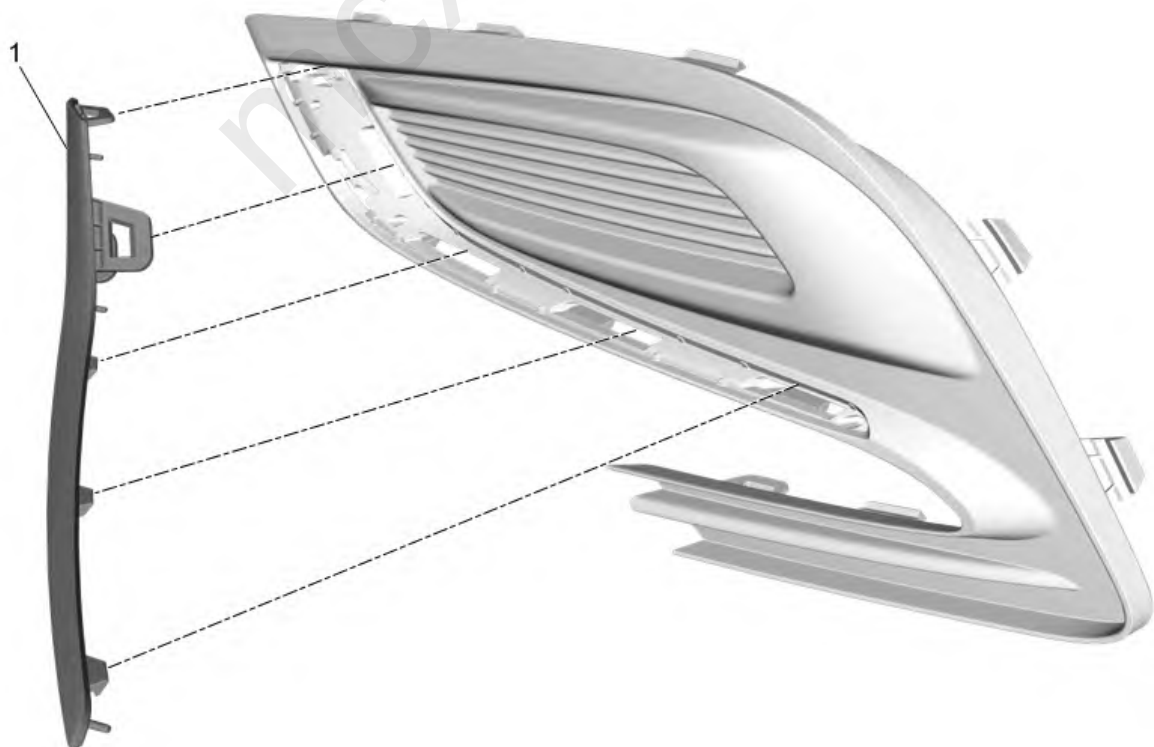


Fig. 13: Front Fog Lamp Opening Cover (Encore)
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure <u>Front Fog Lamp Bezel Replacement (Buick)</u>	
1	Front Fog Lamp Opening Cover Procedure 1. Release the retaining tabs. 2. Transfer components as necessary.

FRONT FOG LAMP BEZEL REPLACEMENT (BUICK)

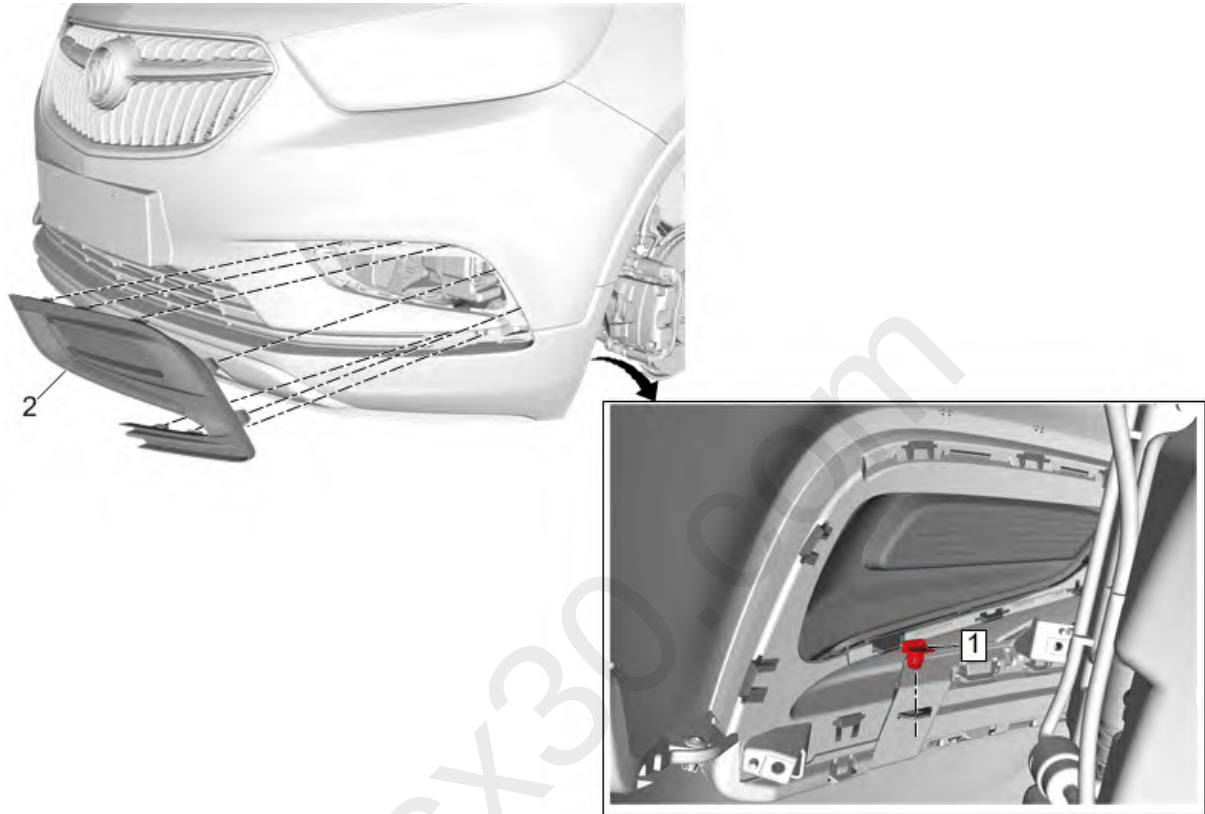


Fig. 14: Front Fog Lamp Bezel (Encore)
 Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedures 1. <u>Front Wheelhouse Liner Replacement (Buick)</u> 2. <u>Front Bumper Lower Fascia Replacement (Buick)</u>	
1	Front Fog Lamp Retainer
2	Front Fog Lamp Bezel Procedure 1. Disengage the inner retaining tabs securing the bezel to the front bumper fascia. 2. Remove the front fog lamp bezel.

FRONT FOG LAMP BEZEL REPLACEMENT (CHEVROLET WITH T3S)

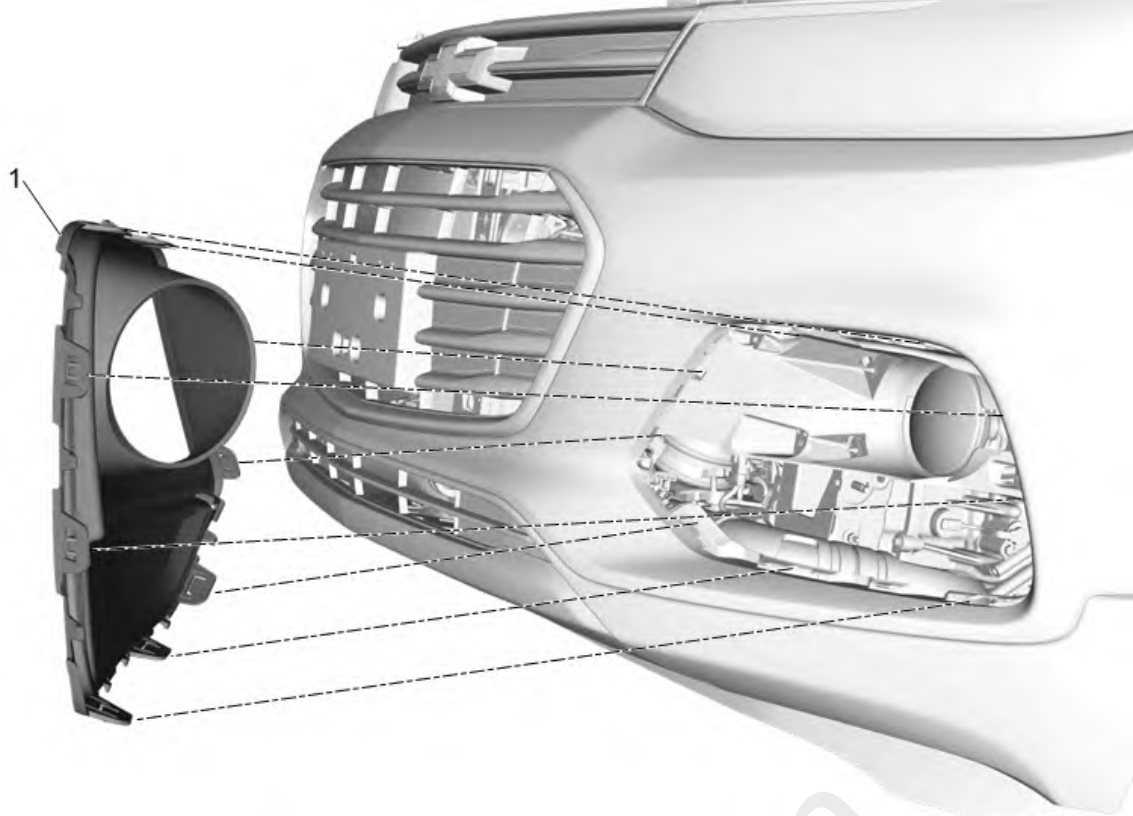


Fig. 15: Front Fog Lamp Bezel (Chevrolet with T3S)
 Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure <u>Front Wheelhouse Liner Replacement (Chevrolet)</u>	
1	Front Fog Lamp Bezel Procedure Release the retaining tabs.

FRONT LICENSE PLATE BRACKET REPLACEMENT

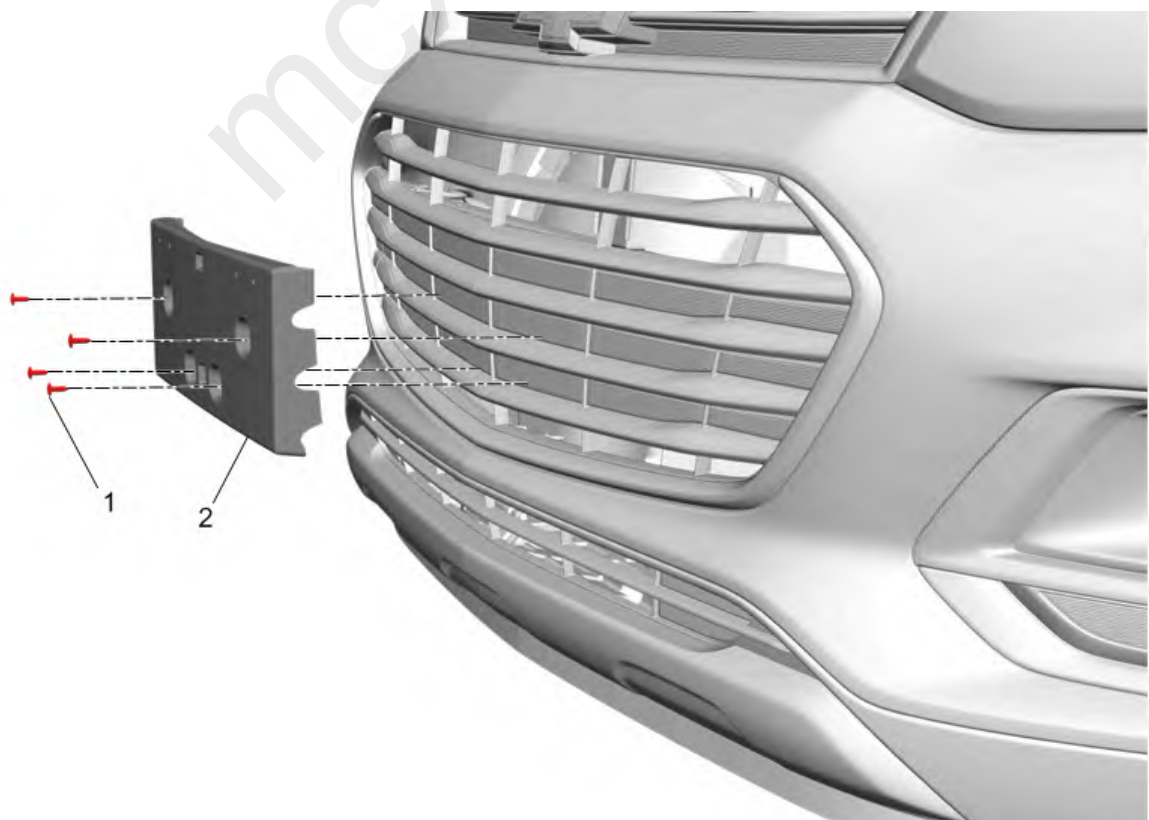


Fig. 16: Front License Plate Bracket
 Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Front License Plate Bracket Fastener (Qty: 4) CAUTION: Refer to Fastener Caution . Tighten 2.5 N.m (22 lb in)
2	Front License Plate Bracket

ROCKER PANEL FRONT MOLDING REPLACEMENT

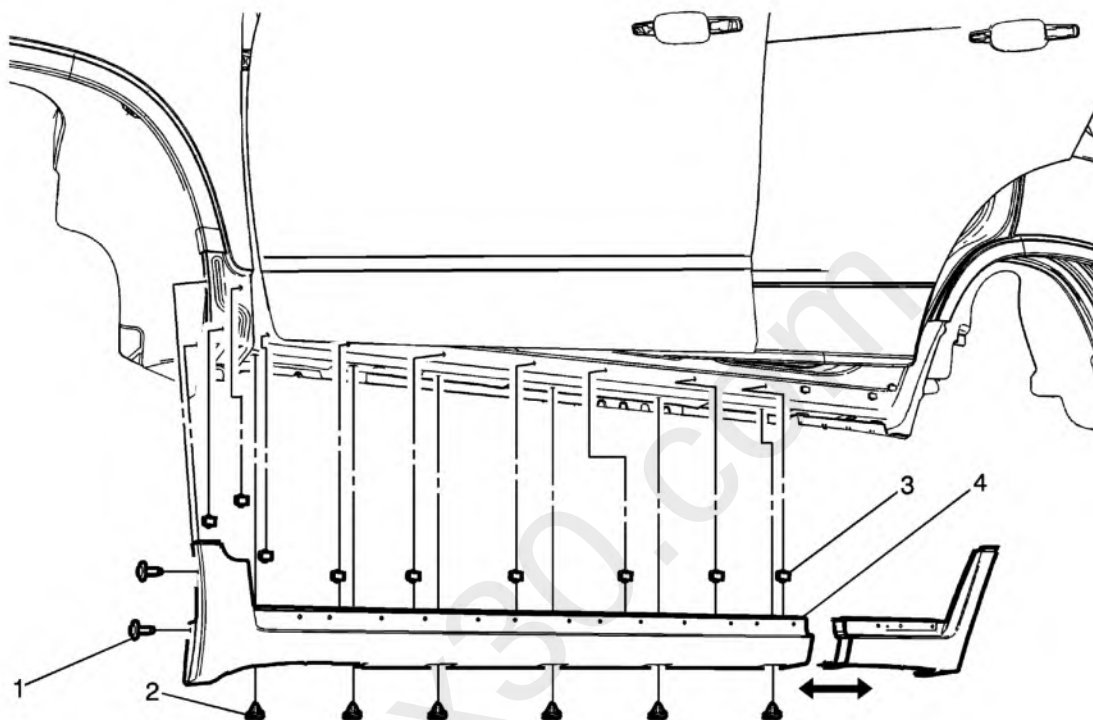


Fig. 17: Rocker Panel Front Molding

Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedures	
1. Open both side doors in order to remove the rocker panel front molding assembly. 2. Remove the rear rocker panel molding assembly. Refer to Rocker Panel Rear Molding Replacement .	
1	Rocker Panel Front Molding Screw (Qty: 2) CAUTION: Refer to Fastener Caution . Tighten 2.5 N.m (22 lb in)
2	Rocker Panel Molding Lower Retainer (Qty: 6)
3	Rocker Panel Molding Upper Retainer (Qty: 9)

Callout	Component Name
1	Front Side Door Sill Trim Plate CAUTION: Refer to Exterior Trim Emblem Removal Caution . Procedure 1. The part and surface should be 21Â°C (70Â°F) prior to installation. The vehicle should remain 21Â°C (70Â°F) for one hour after assembly to allow adhesive to develop sufficient bond strength. 2. Use a heat gun or equivalent to remove the front side door sill trim plate. Use a plastic flat bladed tool to assist in removal. 3. Clean any remaining residue with a 50/50 mixture by volume of isopropyl alcohol and clean drinkable water. Wipe surface dry with a clean lint-free towel. 4. 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. 5. Using the palm of the hand, wet out the front side door sill trim plate to ensure full adhesion is made.

FRONT BUMPER FASCIA TOW EYE ACCESS HOLE COVER REPLACEMENT (ENCORE)

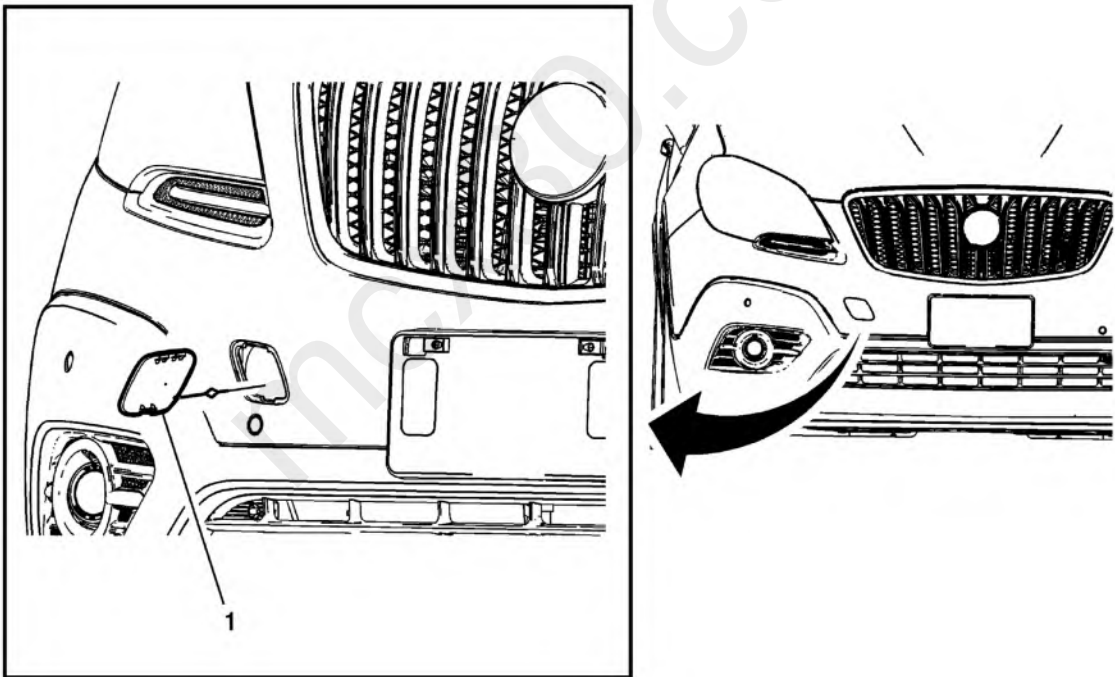


Fig. 19: Front Bumper Fascia Tow Eye Access Hole Cover (Encore).
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name

Callout	Component Name
1	Front Bumper Fascia Front Tow Eye Access Hole Cover Procedure 1. Using a small plastic flat-bladed tool, release the bottom locking tab and pull out and down from the rear bumper fascia. 2. Using needle nose pliers release the v-notch hook from the retainer hole in the front bumper fascia and remove.

REAR BUMPER FASCIA TOW EYE ACCESS HOLE COVER REPLACEMENT

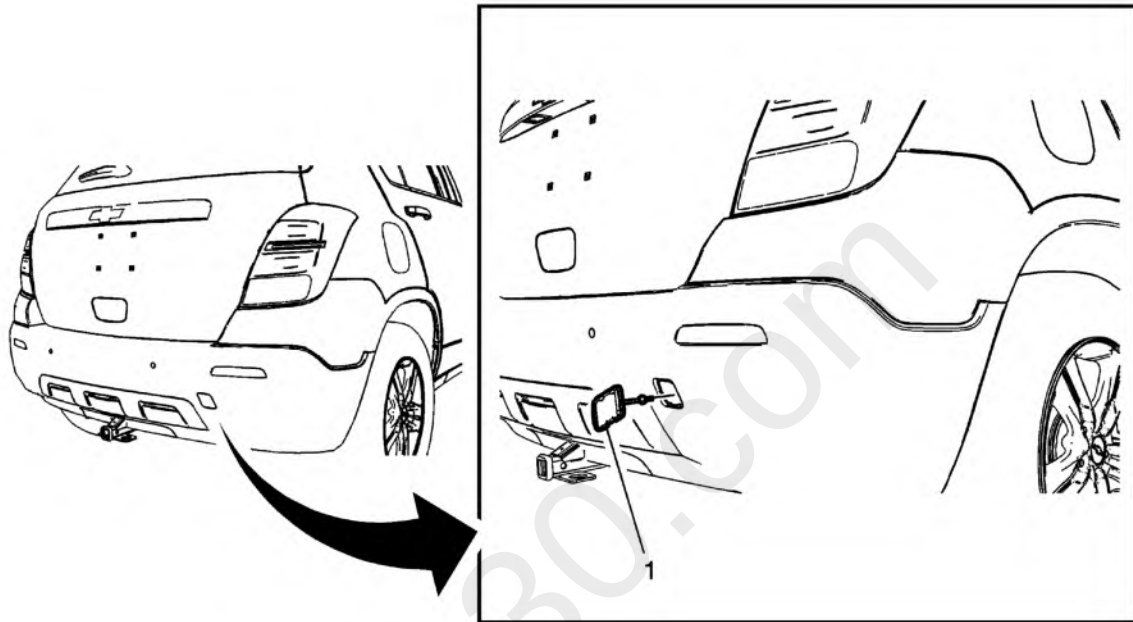


Fig. 20: Rear Bumper Fascia Tow Eye Access Hole Cover
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Rear Bumper Fascia Rear Tow Eye Access Hole Cover Procedure 1. Using a small plastic flat-bladed tool, release the bottom locking tab and pull out and down from the rear bumper fascia. 2. Using needle nose pliers release the v-notch hook from the retainer hole in the rear bumper fascia and remove.

RADIATOR GRILLE EMBLEM/NAMEPLATE REPLACEMENT (BUICK)

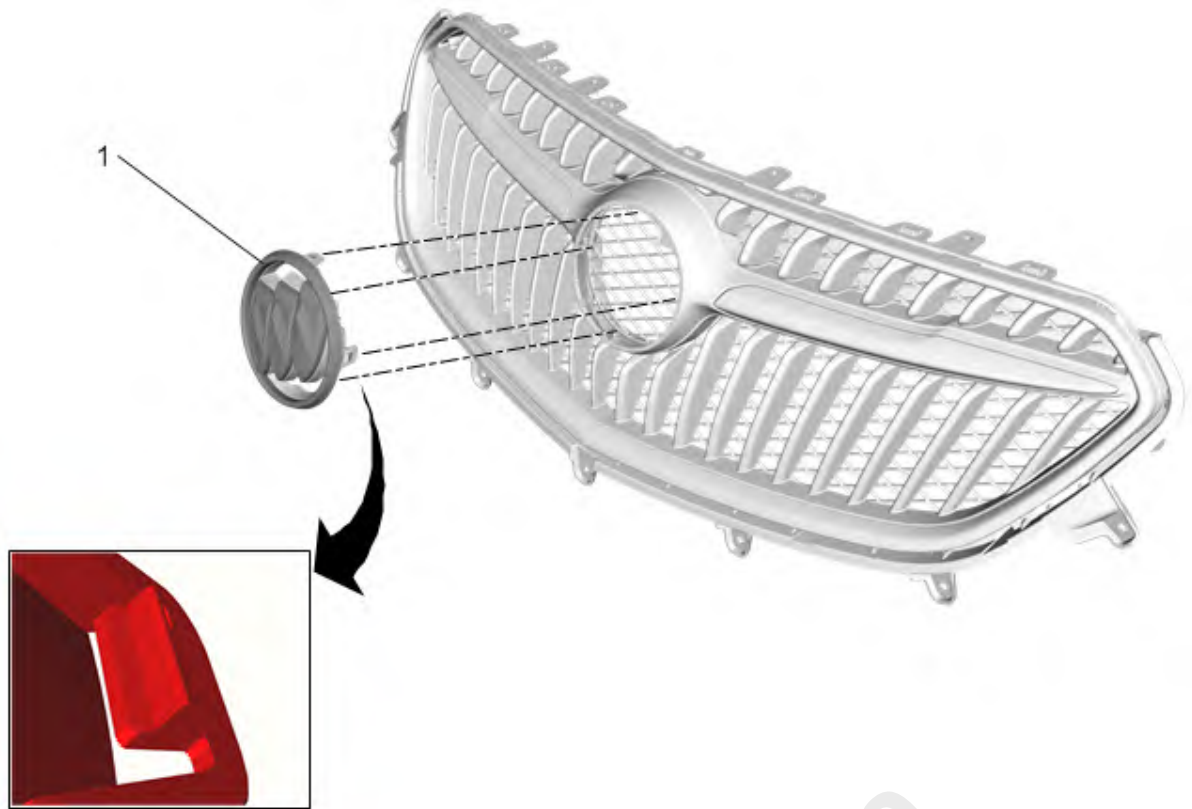


Fig. 21: Radiator Grille Emblem/Nameplate (Buick)

Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure	
<u>Front Grille Replacement (Buick)</u>	
1	Radiator Grille Emblem/Nameplate Procedure Using a suitable flat bladed tool release the 4 locking tabs and pull radiator grille emblem forward.

LIFTGATE OUTSIDE HANDLE EMBLEM REPLACEMENT (CHEVROLET)

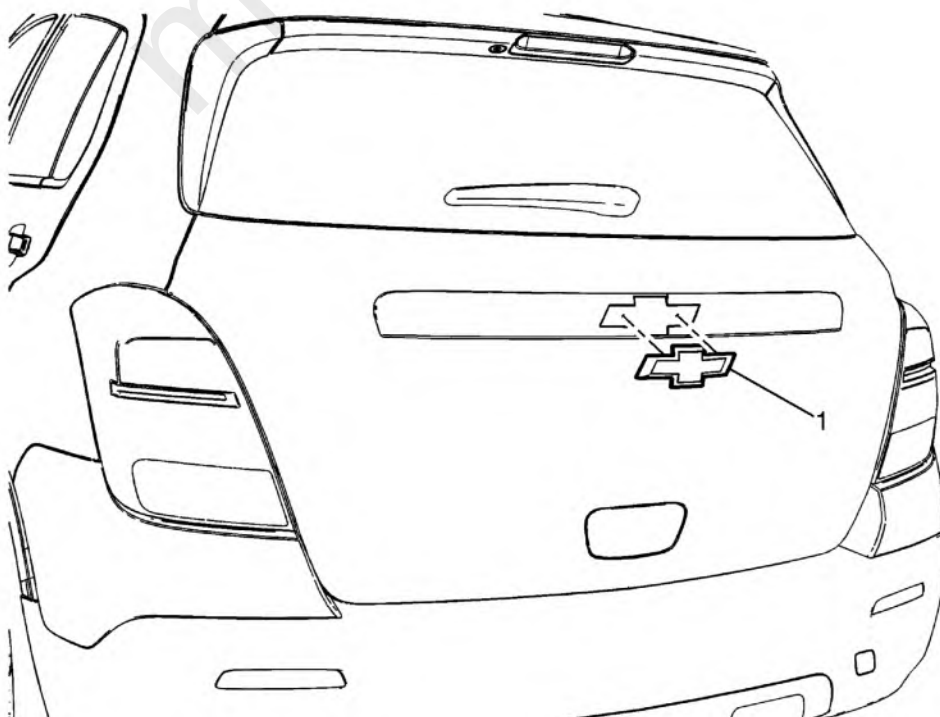


Fig. 22: Liftgate Outside Handle Emblem (Trax).
 Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Liftgate Outside Handle Emblem CAUTION: Refer to Exterior Trim Emblem Removal Caution . Procedure 1. Using a heat gun in a circular motion, warm the liftgate outside handle emblem in order to help remove the adhesive tape backing. 2. Clean any left over tape residue with a 50/50 mixture by volume of isopropyl alcohol and clean drinkable water. 3. Peel the adhesive tape liner from the backside of the liftgate outside handle emblem before applying to the liftgate. 4. Align the two alignment pins to the liftgate. 5. Using a clean cotton towel and hand pressure, wet out the entire liftgate outside handle emblem to the liftgate.

LIFTGATE OUTSIDE HANDLE EMBLEM REPLACEMENT (BUICK)

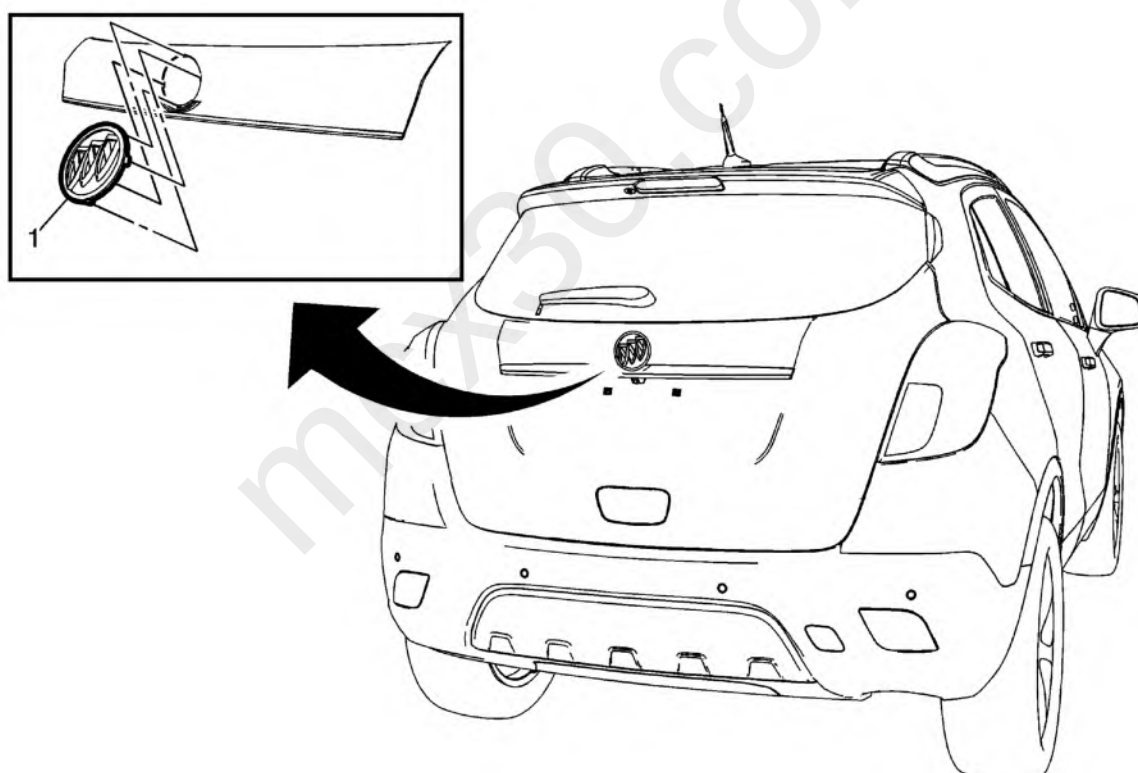


Fig. 23: Liftgate Outside Handle Emblem (Encore).
 Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure Remove the liftgate center applique. Refer to Liftgate Center Applique Replacement (Buick).	

Callout	Component Name
	Liftgate Outside Handle Emblem (Tri-Shield)
	CAUTION: Refer to Exterior Trim Emblem Removal Caution . Procedure 1. The part and surface should be 21Â°C (70Â°F) prior to installation. The vehicle should remain 21Â°C (70Â°F) one hour after assembly to allow the adhesive to develop sufficient bond strength. 2. Use a heat gun or equivalent tool to remove the old emblem. Clean all the adhesive residue from the applique, wipe the surface dry with a clean lint-free towel prior to installing new emblem. 3. Using a suitable trim tool, release the four locking tabs while pulling the liftgate outside handle emblem from the applique. 4. When removing protective liners from adhesive backed emblems, 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. 5. Remove the protective liner from the back side of the adhesive tape. 6. Align the emblem and four lock tabs to the holes on the applique and press to ensure full adhesion is made.

FRONT BUMPER LOWER FASCIA CENTER GRILLE REPLACEMENT (BUICK)

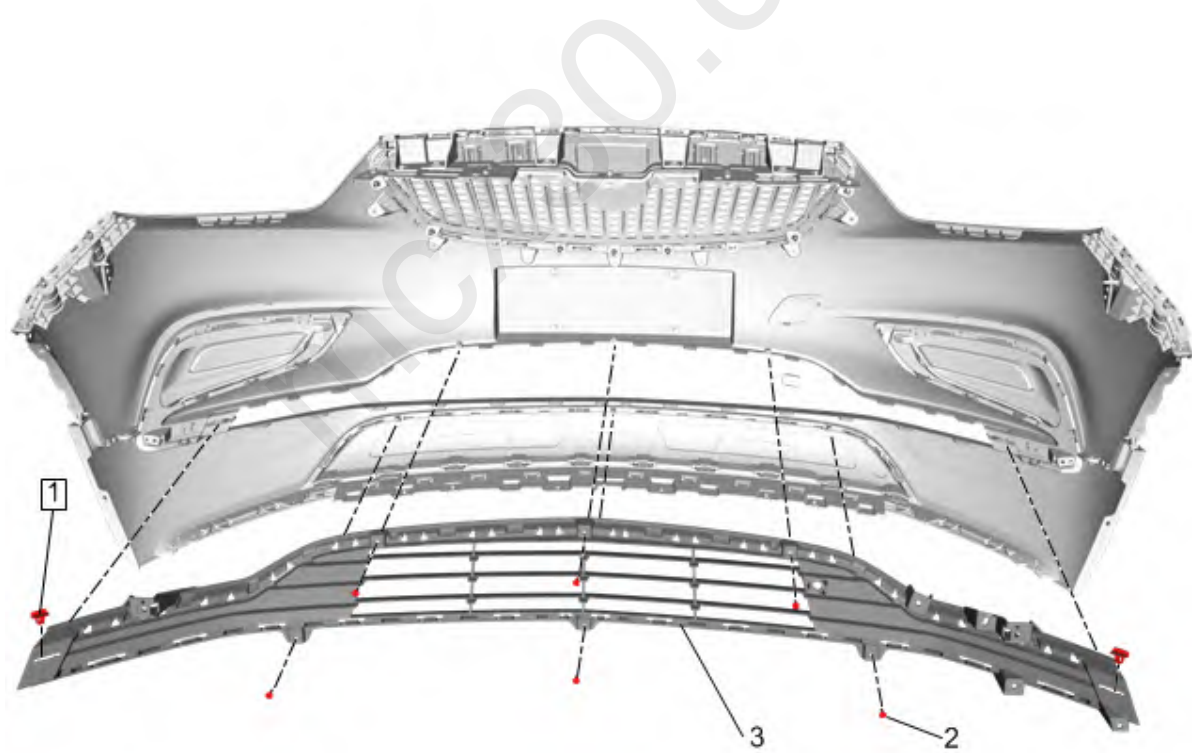


Fig. 24: Front Bumper Lower Fascia Center Grille (Buick)
 Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure	
1. Front Bumper Fascia Replacement (Buick). 2. Place the bumper fascia face down on a clean protective surface.	
1	Front Lower Grille Clip (Qty: 2)

Callout	Component Name
2	Front Grille Lower Bolt (Qty: 6) CAUTION: Refer to Fastener Caution . Tighten 2.5 N.m (22 lb in)
3	Front Lower Grille Procedure 1. Use a small flat-bladed tool to release the front bumper fascia locking retainer from the lower grille. 2. Transfer components as necessary.

FRONT GRILLE REPLACEMENT (BUICK)

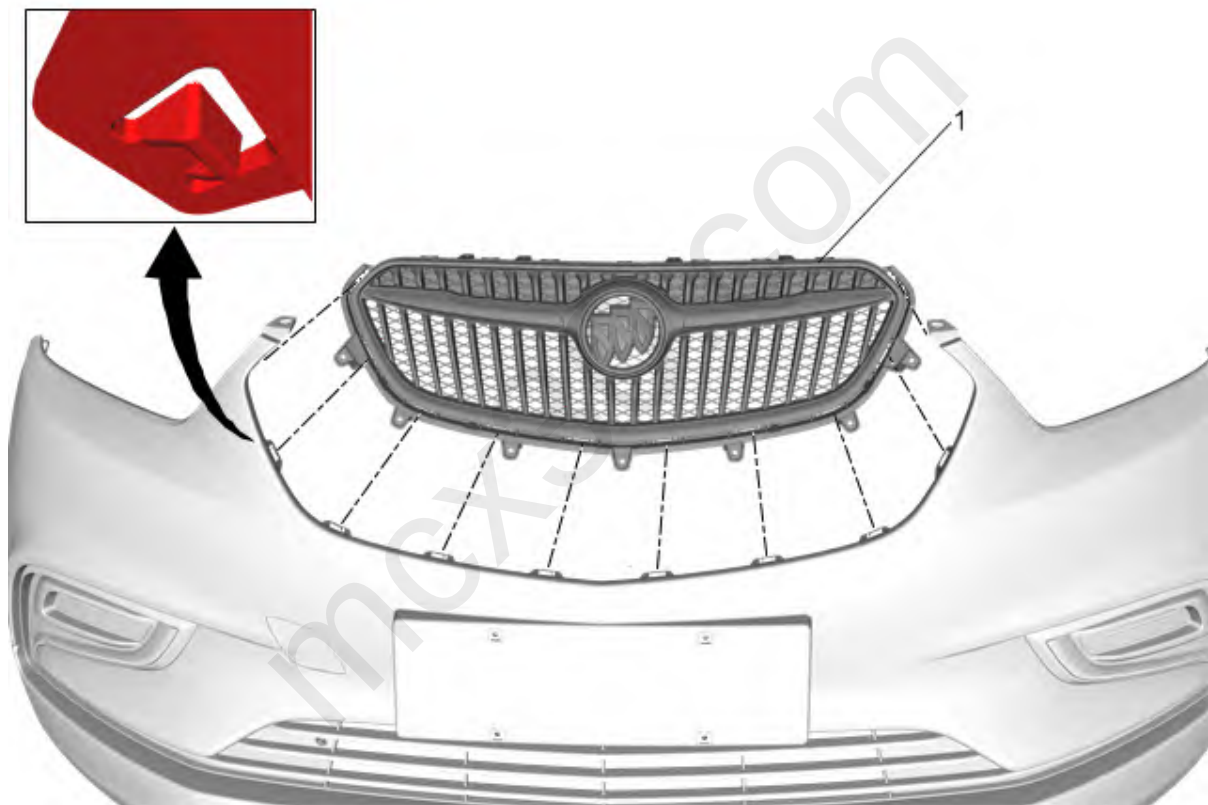


Fig. 25: Front Grille (Buick).

Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure Front Bumper Fascia Replacement (Buick)	
1	Front Grille Procedure 1. Reposition the wiring harness. 2. Release the front grille from the front bumper fascia grille tabs. 3. Pull the front grille from the backside of the front bumper fascia. 4. Transfer components as necessary.

FRONT UPPER GRILLE REPLACEMENT (BUICK)

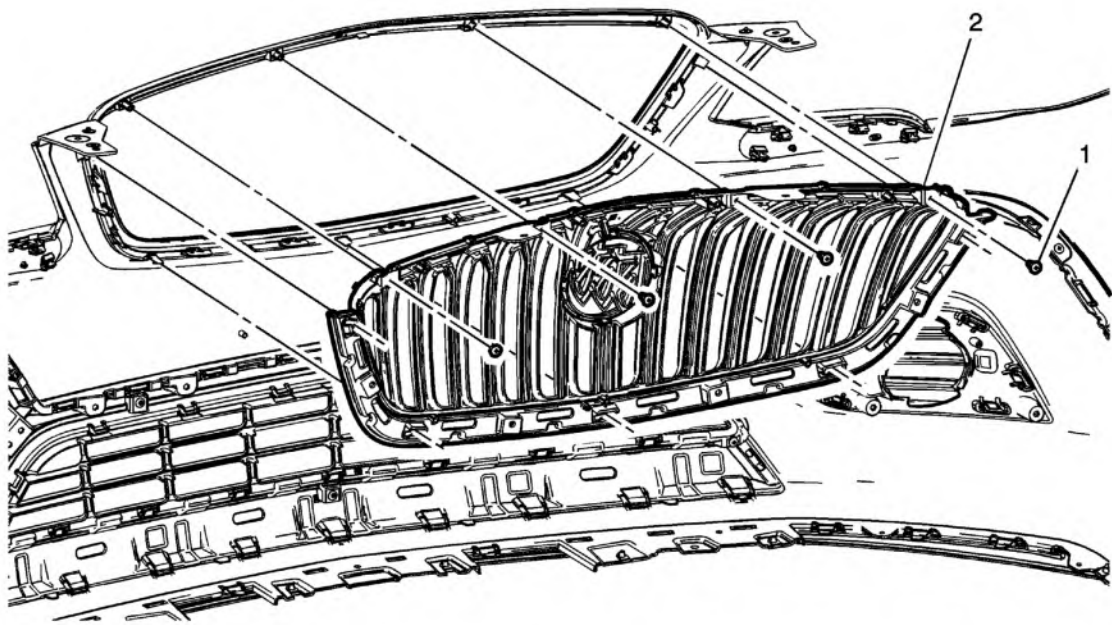


Fig. 26: Front Upper Grille (Encore)
 Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure Remove the front grille opening cover. Refer to Front Grille Opening Cover Replacement .	
1	Front Upper Grille Screw (Qty: 4) CAUTION: Refer to Fastener Caution .
2	Front Upper Grille Procedure Use a suitable tool to release the 5 locking tabs and pull the front upper grille from the radiator opening upper cover.

FRONT UPPER GRILLE REPLACEMENT (CHEVROLET)

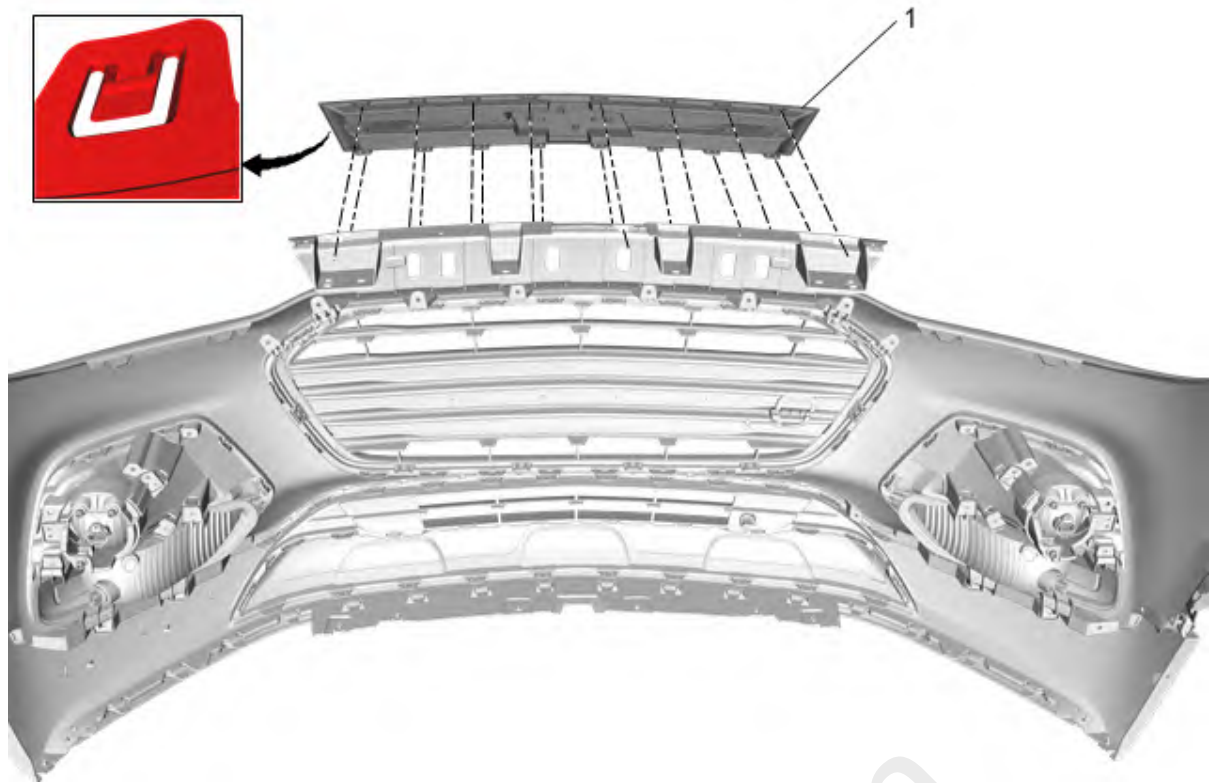


Fig. 27: Front Upper Grille (Trax)

Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure	
<u>Front Bumper Fascia Replacement (Chevrolet)</u>	
1	Front Upper Grille
	Procedure
	1. Place the bumper fascia face down on a clean protected surface. 2. Using a suitable trim tool, release the locking tabs while carefully pulling the front upper grille from the front fascia. 3. Transfer components as necessary. NOTE: Each individual front bumper fascia tab must be secure to each slot in the radiator grille prior to reassembly of the fascia to the vehicle.

FRONT LOWER GRILLE REPLACEMENT (CHEVROLET)

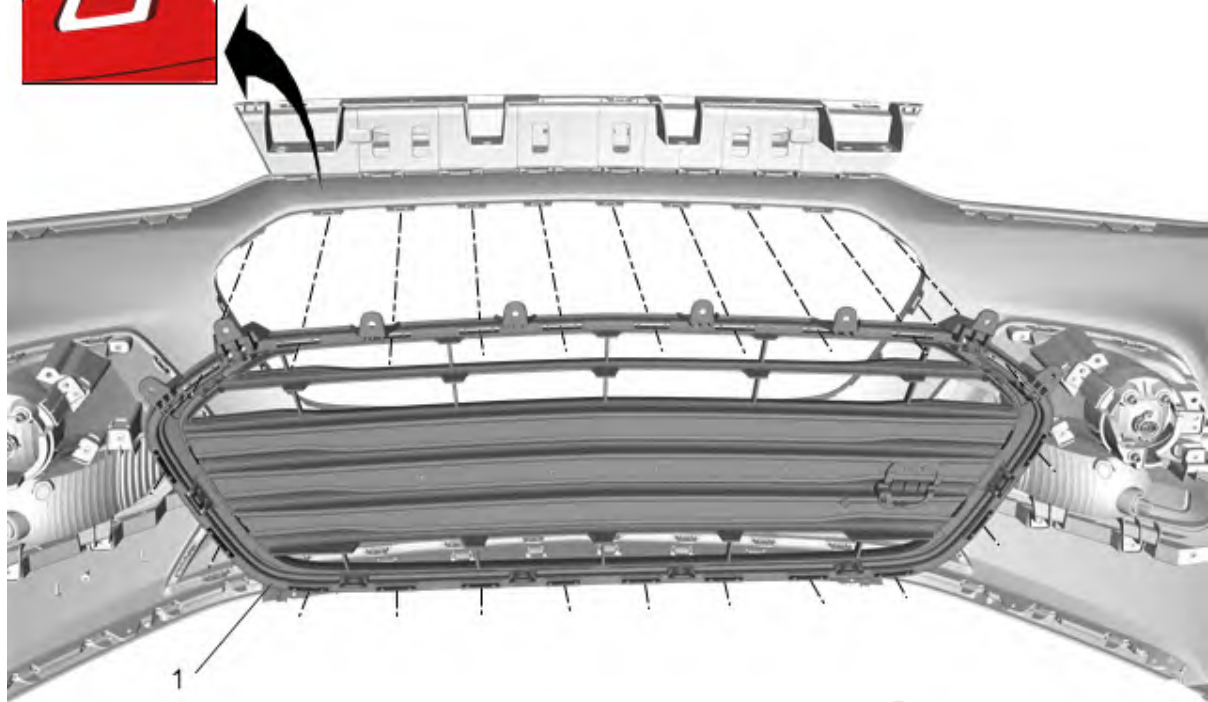


Fig. 28: Front Lower Grille (Trax)

Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure	
<u>Front Bumper Fascia Replacement (Chevrolet)</u>	
1	Front Lower Grille Procedure 1. Place the bumper fascia face down on a clean protected surface. 2. Reposition the wiring harness. 3. Release the locking tabs and pull the front lower grille from the front bumper fascia. 4. Transfer components as necessary.

RADIATOR GRILLE OPENING COVER REPLACEMENT (CHEVROLET)

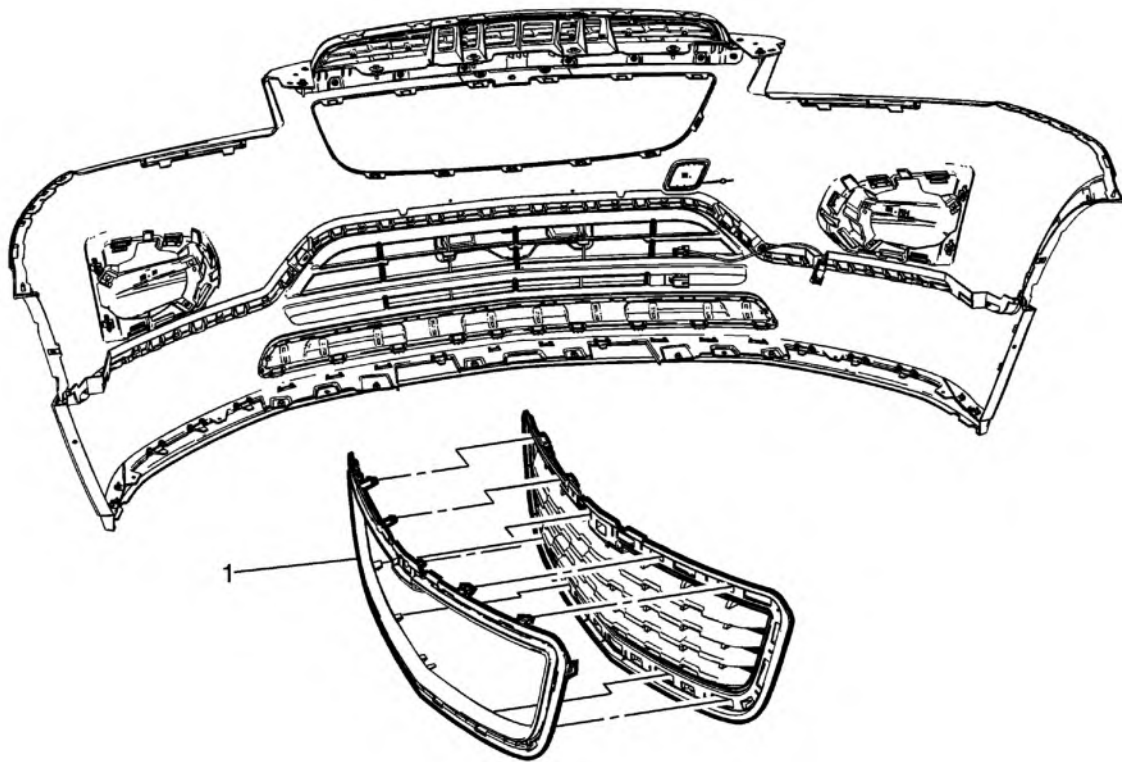


Fig. 29: Radiator Grille Opening Cover (Trax)
 Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure Remove the radiator grille. Refer to. Front Grille Replacement (Buick)	
1	Radiator Grille Opening Cover Procedure 1. Place the radiator grille face down on a clean protected surface. 2. Using a suitable trim tool, release the thirteen locking tabs on the radiator grille opening cover and remove from the radiator grill. NOTE: Each individual tab on the radiator grille opening cover must be secure to each slot in the radiator grille prior to re-assembly of the radiator grill to the fascia.

FRONT GRILLE OPENING COVER REPLACEMENT

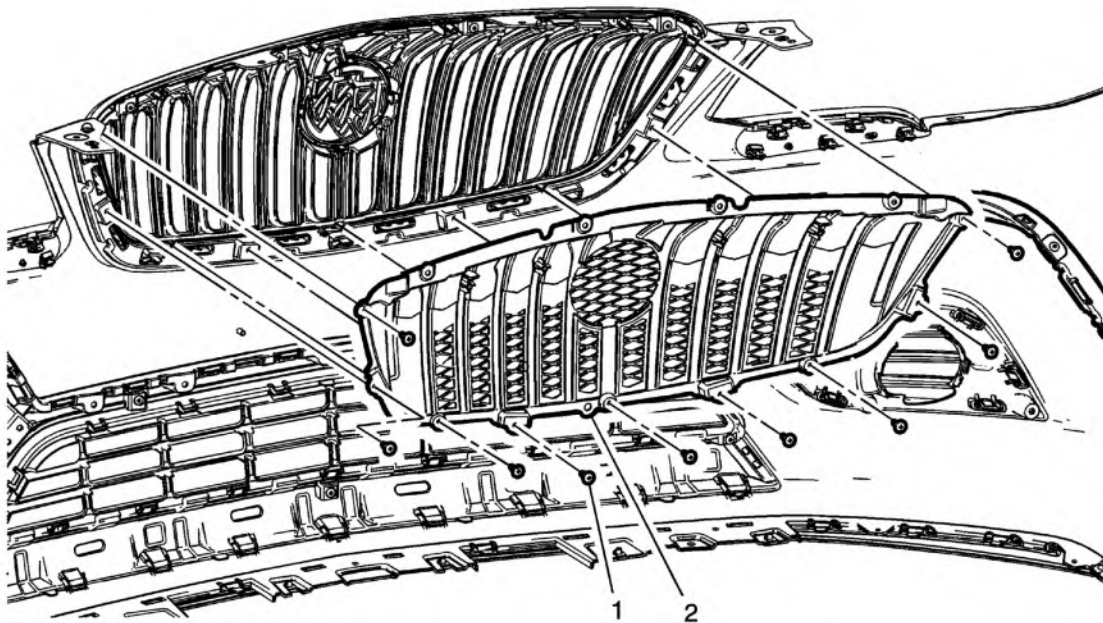


Fig. 30: Front Grille Opening Cover
 Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure Remove the front bumper fascia. Refer to Front Bumper Fascia Replacement (Chevrolet) . Front Bumper Fascia Replacement (Buick) .	
1	Front Grille Opening Cover Screw (Qty 9) CAUTION: Refer to Fastener Caution .
2	Front Grille Opening Cover

FRONT SIDE DOOR LOWER MOLDING REPLACEMENT

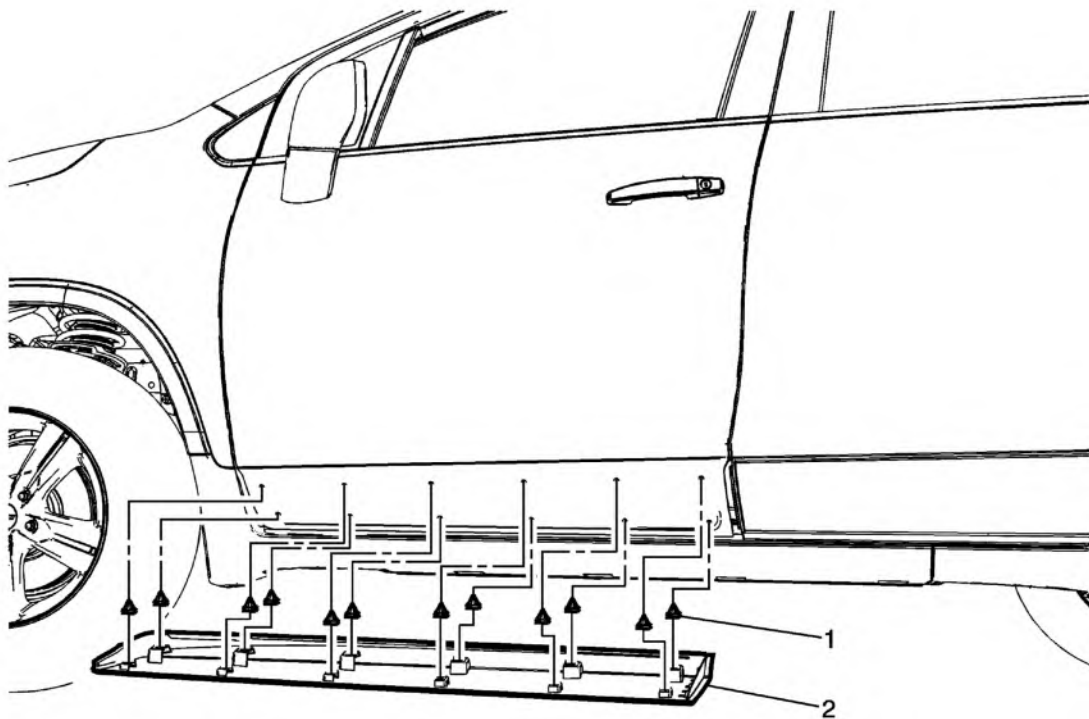


Fig. 31: Front Side Door Lower Molding
 Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Front Side Door Lower Molding Retainers (Qty 12)
2	Front Side Door Lower Molding Procedure 1. Apply two layers of masking tape around the top edge of the front side door lower molding to prevent any paint surface damage. 2. Starting at the front top corner using a suitable flat bladed plastic tool release the twelve front side door lower molding retainers. 3. Replace the front side door lower molding retainers as needed. 4. Using a 50/50 mixture of isopropyl alcohol and clean drinkable water and a clean towel, remove the left over adhesive residue from the masking tape.

FRONT FENDER WHEEL OPENING MOLDING REPLACEMENT

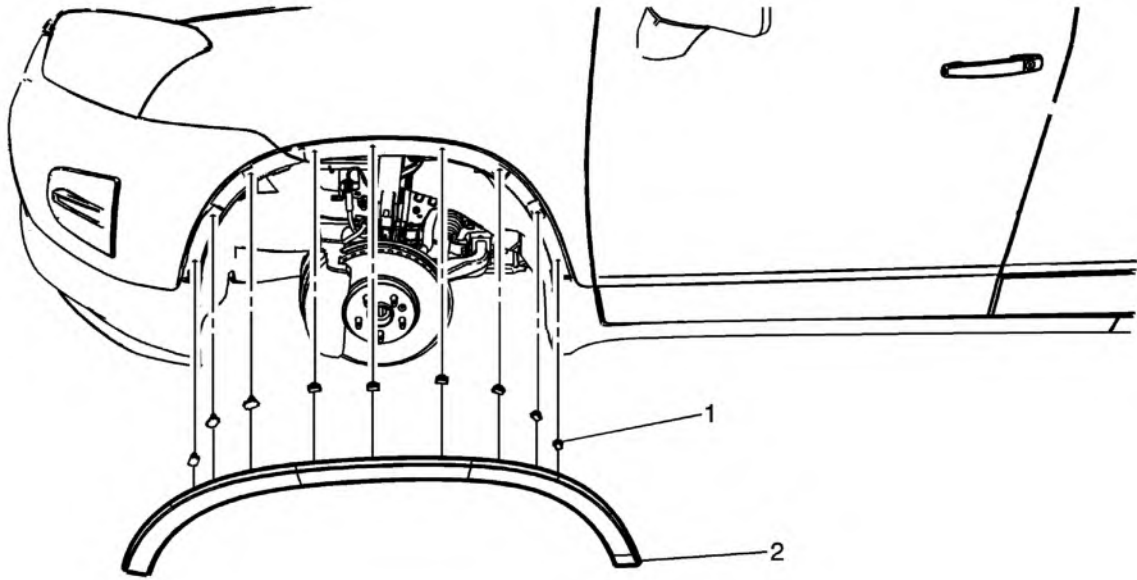


Fig. 32: Front Fender Wheel Opening Molding
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure Remove the front wheelhouse liner. Refer to Front Wheelhouse Liner Replacement (Chevrolet) Front Wheelhouse Liner Replacement (Buick) .	
1	Front Fender Wheel Opening Molding Retainers (Qty: 9)
2	Front Fender Wheel Opening Molding Procedure 1. Slide an 8mm 6 point socket, or equivalent, over the ends of the retainers collapsing the tabs to disengage the six retainers from the front fender and then the three retainers from the front bumper fascia. 2. Pull the front fender wheel opening molding upward to slide the tab on the wheel opening molding out of the front fascia.

REAR SIDE DOOR LOWER MOLDING REPLACEMENT

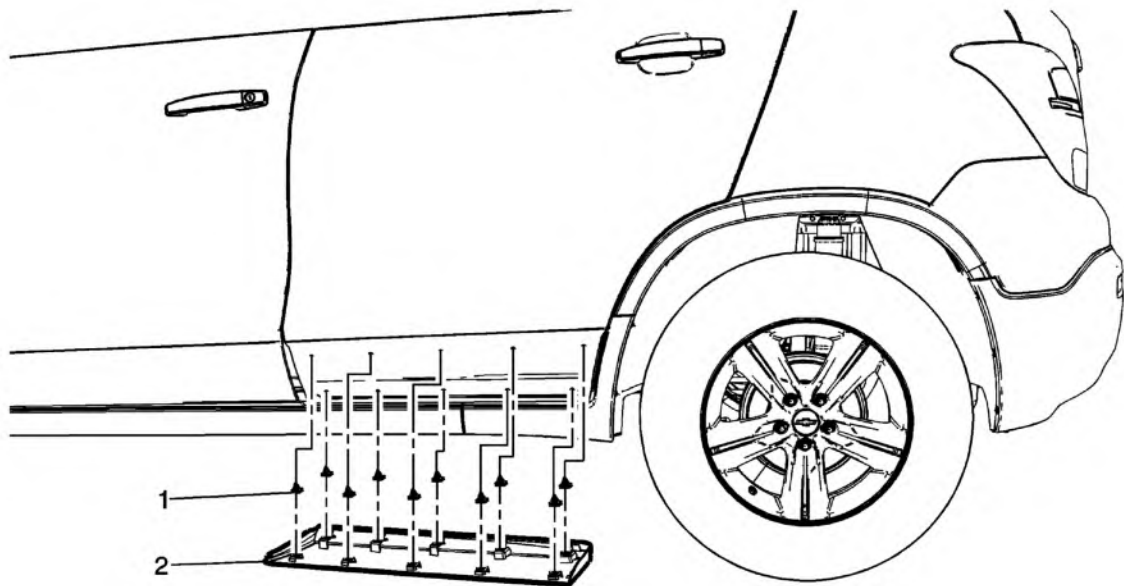


Fig. 33: Rear Side Door Lower Molding
 Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Rear Side Door Lower Molding Retainers (Qty 10)
2	Rear Side Door Lower Molding Procedure 1. Apply two layers of masking tape around the top edge of the rear side door lower molding to prevent any paint surface damage. 2. Starting at the front top corner using a suitable flat bladed plastic tool release the ten rear side door lower molding retainers. 3. Replace the rear side door lower molding retainers as needed. 4. Using a 50/50 mixture of isopropyl alcohol and clean drinkable water and a clean towel, remove the left over adhesive residue from the masking tape.

REAR WHEEL OPENING MOLDING REPLACEMENT

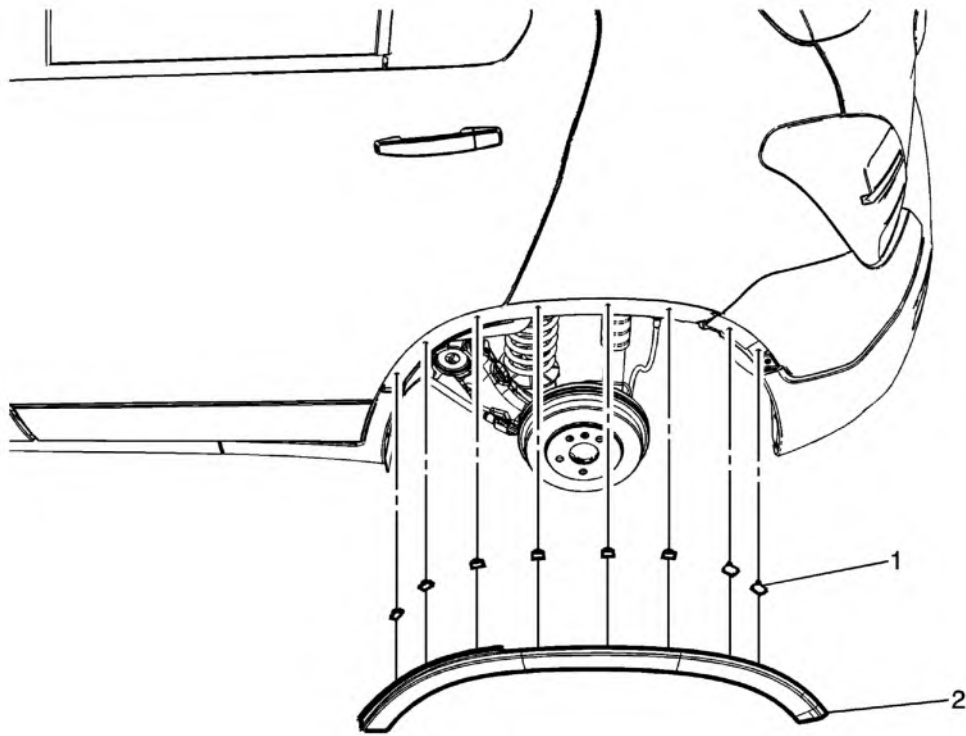


Fig. 34: Rear Wheel Opening Molding
 Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure 1. Open the rear side door. 2. Remove the rear wheelhouse liner. Refer to Rear Wheelhouse Liner Replacement .	
1	Rear Wheel Opening Molding Retainer (Qty: 8)
2	Rear Wheel Opening Molding Procedure 1. Apply two layers of masking tape around the edge of the rear wheel opening molding to prevent any paint surface damage. 2. Using a trim type release tool, working from the inside fender flange area, disengage the six retainers from the body side outer panel and then the two retainers from the rear bumper fascia. 3. Pull the rear wheel opening molding upward to slide the tab on the wheel opening molding out of the rear fascia. 4. Replace the rear wheel opening molding retainers as needed. 5. Using a 50/50 mixture of isopropyl alcohol and clean drinkable water and a clean towel, remove the left over adhesive residue from the masking tape. NOTE: After removing the molding it is mandatory to wax the retainer holes outside and from the inner wheel house to help prevent corrosion.

ROCKER PANEL REAR MOLDING REPLACEMENT

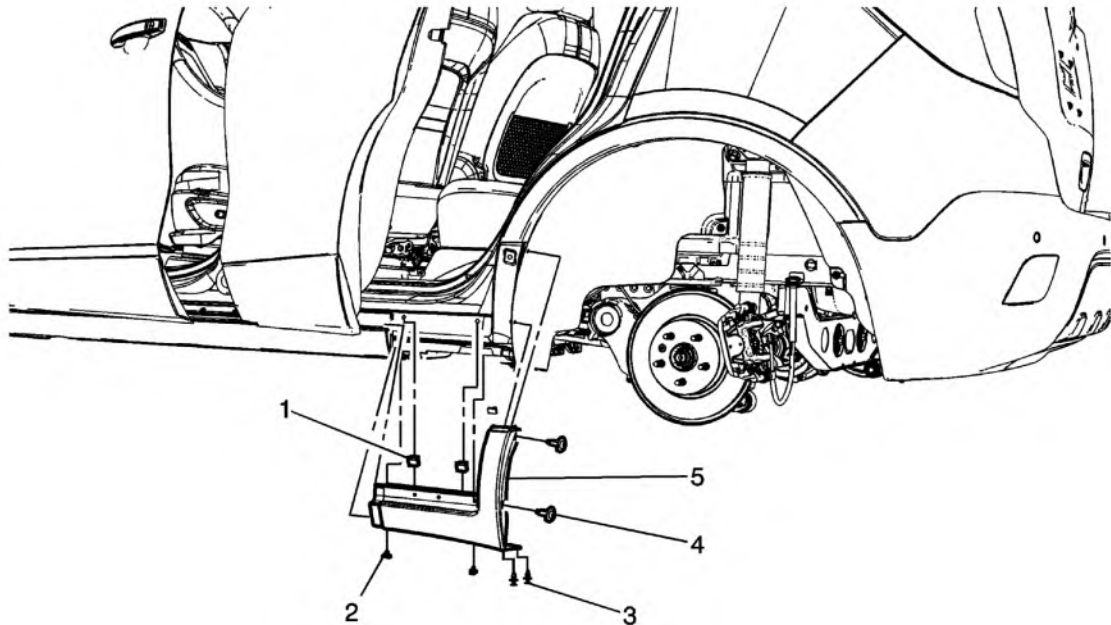


Fig. 35: Rocker Panel Rear Molding

Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure Open the rear side door.	
1	Rocker Panel Rear Molding Upper Retainer (Qty 3)
2	Rocker Panel Rear Molding Lower Retainer (Qty 2)
3	Tire Deflector Push-Pin (Qty 2)
4	Rear Wheelhouse Liner Bolt (Qty 2) CAUTION: Refer to Fastener Caution .
5	Rocker Panel Rear Molding Procedure 1. Remove the two rear wheelhouse liner bolts. 2. Release the two tire deflector push-pin. 3. Release the upper and lower rocker panel rear molding retainers. 4. Pull the rocker panel rear molding rearward to release the molding from the rocker panel front molding retaining tabs and remove from the vehicle.

ROOF PANEL JOINT FINISH MOLDING REPLACEMENT

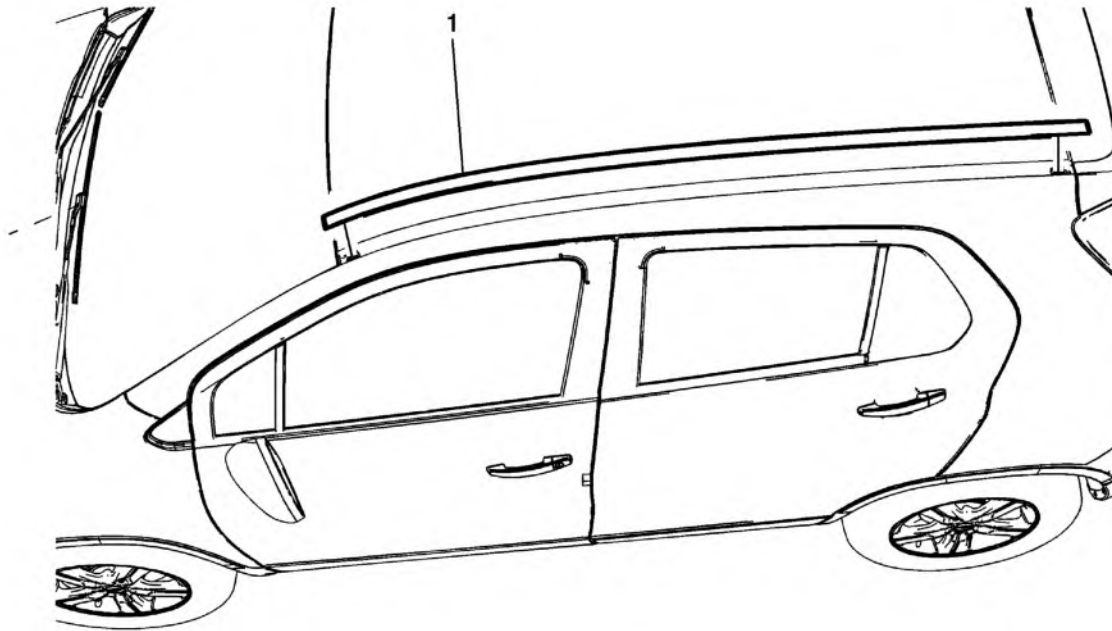


Fig. 36: Roof Panel Joint Finish Molding
 Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedure Begin at the rear window and lift the molding from the ditch, disengaging the molding from the integral ditch retaining clips.	
1	Roof Panel Joint Finish Molding Assembly Procedures 1. Begin at the front windshield, tuck the finish molding tab to the front roof header. 2. Using a roller-type tool, roll the ditch molding into the ditch securing the molding to each of the integral ditch retainers. 3. Inspect the levelness of the ditch molding to the roof panel. 4. If not level, roll the area again to achieve a smooth fit to the ditch. 5. Replace the retaining clips if damaged. Refer to Roof Panel Joint Finish Molding Clip Replacement. NOTE: Ensure the retaining clips are secure to the roof ditch prior to installing the new molding.

ROOF PANEL JOINT REAR FINISH MOLDING REPLACEMENT (BUICK)

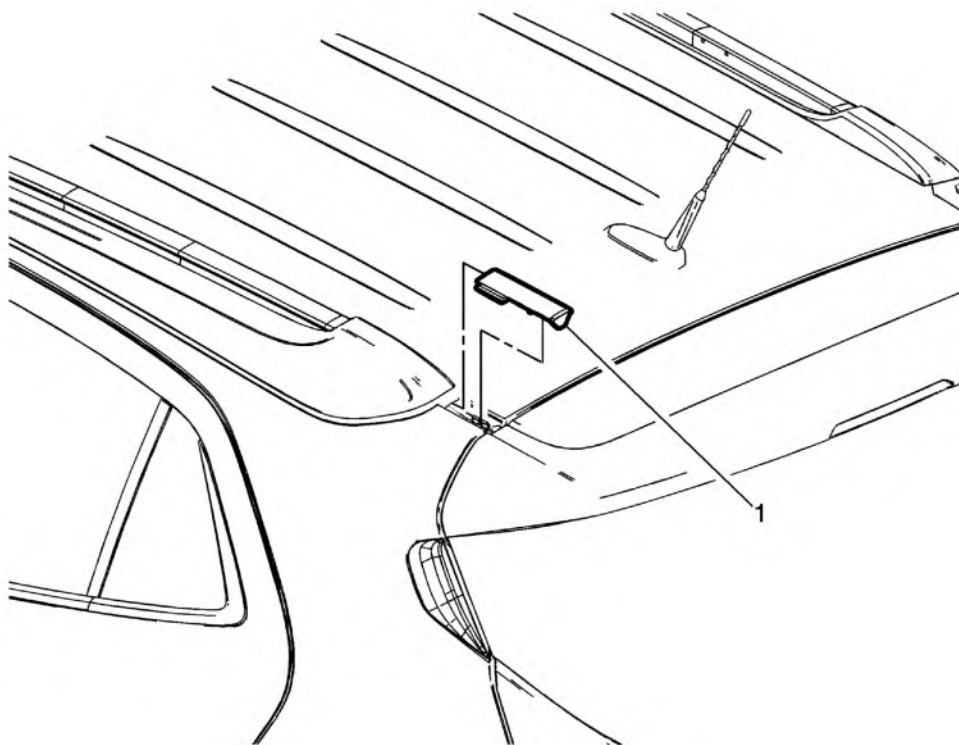


Fig. 37: Roof Panel Joint Rear Finish Molding (Encore).

Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Roof Panel Joint Rear Finish Molding Procedure 1. Start at the rear edge of the roof panel joint rear finish molding and carefully pry the molding from the roof panel integral joint retaining clip. 2. Slide the roof panel joint rear finish molding out of the channel and from under the luggage carrier side rail. 3. Slide the roof panel joint rear finish molding into the channel and under the luggage carrier side rail. 4. Position the rear edge of the roof panel joint rear finish molding to the edge of the spoiler and press into the integral joint retaining clip. 5. Replace the retaining clips if damaged. Refer to Roof Panel Joint Finish Molding Clip Replacement.

ROOF PANEL JOINT FRONT FINISH MOLDING REPLACEMENT (BUICK)

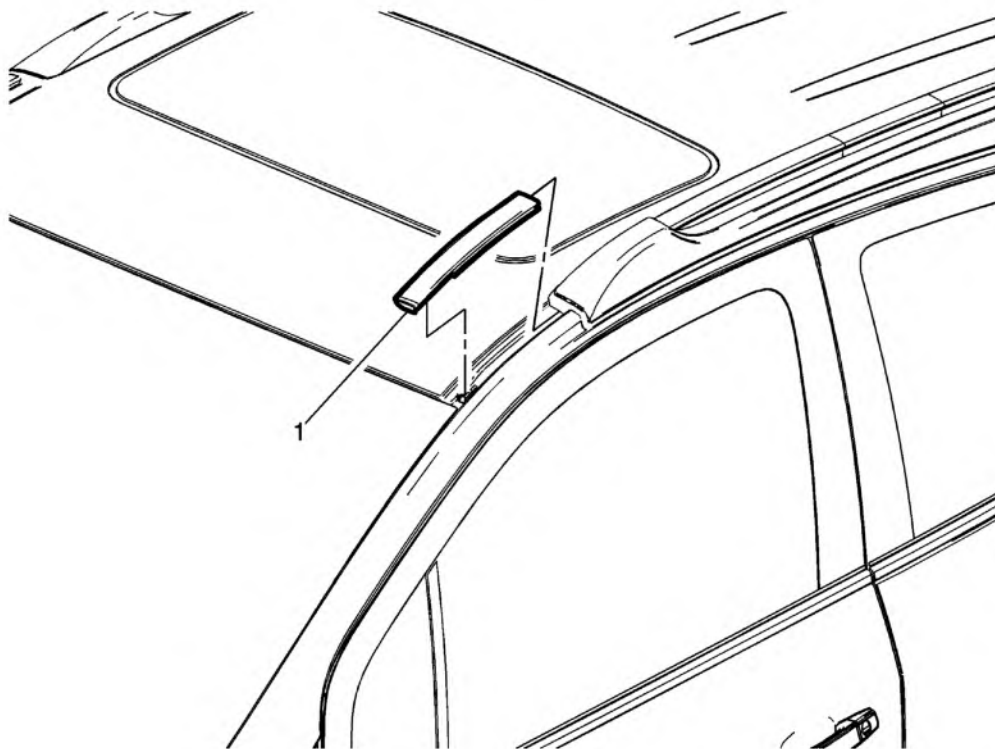


Fig. 38: Roof Panel Joint Front Finish Molding.(Encore).

Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Roof Panel Joint Front Finish Molding Procedure 1. Start at the front edge of the roof panel joint front finish molding and carefully pry the molding from the roof panel integral joint retaining clip. 2. Slide the roof panel joint front finish molding out of the channel and from under the luggage carrier side rail. 3. Slide the roof panel joint front finish molding into the channel and under the luggage carrier side rail. 4. Position the front edge of the roof panel joint front finish molding to the edge of the spoiler and press into the integral joint retaining clip. 5. Replace the retaining clips if damaged. Refer to Roof Panel Joint Finish Molding Clip Replacement.

ROOF PANEL JOINT FINISH MOLDING CLIP REPLACEMENT

Repair Procedure

1. To remove the damaged clip, heat under hot air (minimum 100Â°C (212Â°F), until the tape is soft and pliable.
2. Remove the clip with fine tweezers, being careful not to damage the body panel.

NOTE: Use a fine nozzle attached to the dryer to avoid damage to the body painted surface.

3. To remove any remaining cured tape from the ditch that was previously applied, heat under hot air (minimum 100Â°C (212Â°F), until the tape is soft and pliable; then remove with a soft spatula.
4. Clean roof ditch area with a clean wipe dipped in IPA*.

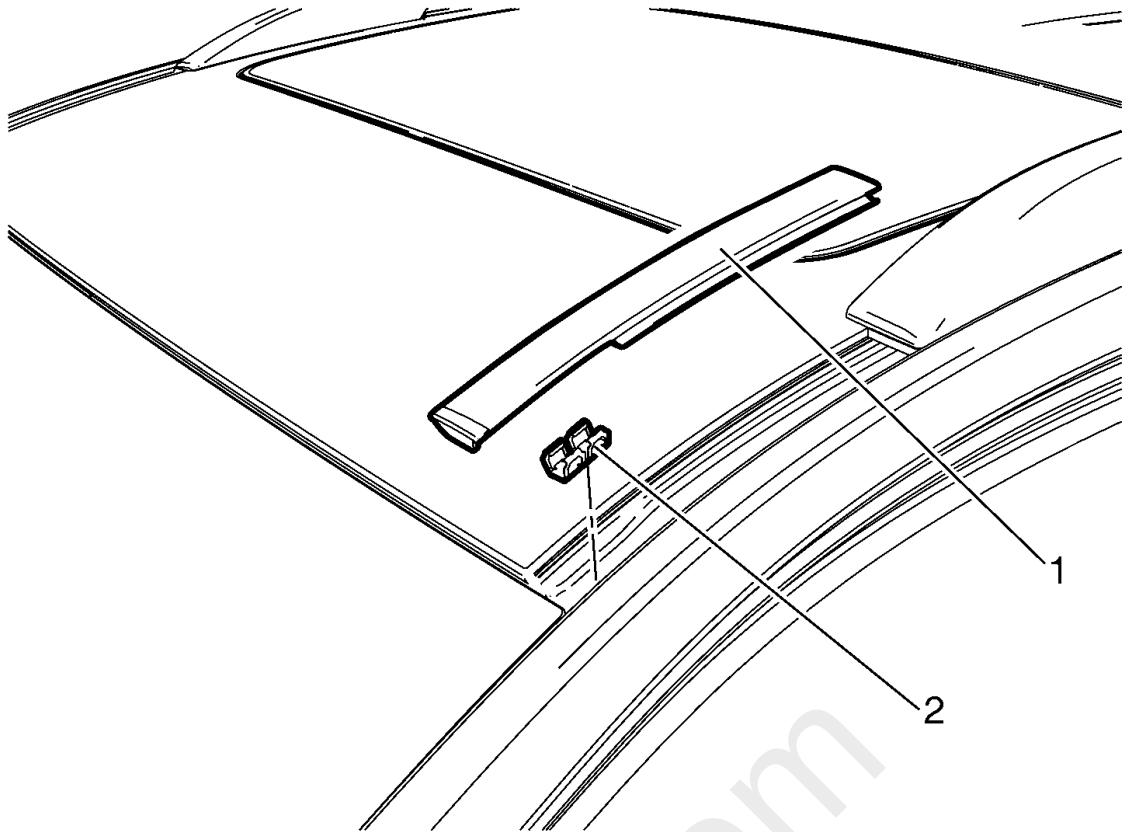


Fig. 39: Retaining Clip

Courtesy of GENERAL MOTORS COMPANY

5. Apply 3M™Duramix Super-Fast Adhesive 4747 on the new clip (2).
6. Set the new clip on the body panel, ensuring correct location and orientation, and hold it with masking tape for:
 - Minimum 15 minutes at 23Â°C (73Â°F)
 - Minimum 30 minutes at 10-23Â°C (50-73Â°F)
 - Minimum 60 minutes at 5-10Â°C (41-50Â°F)
7. Install the roof molding (1).

REAR END SPOILER REPLACEMENT

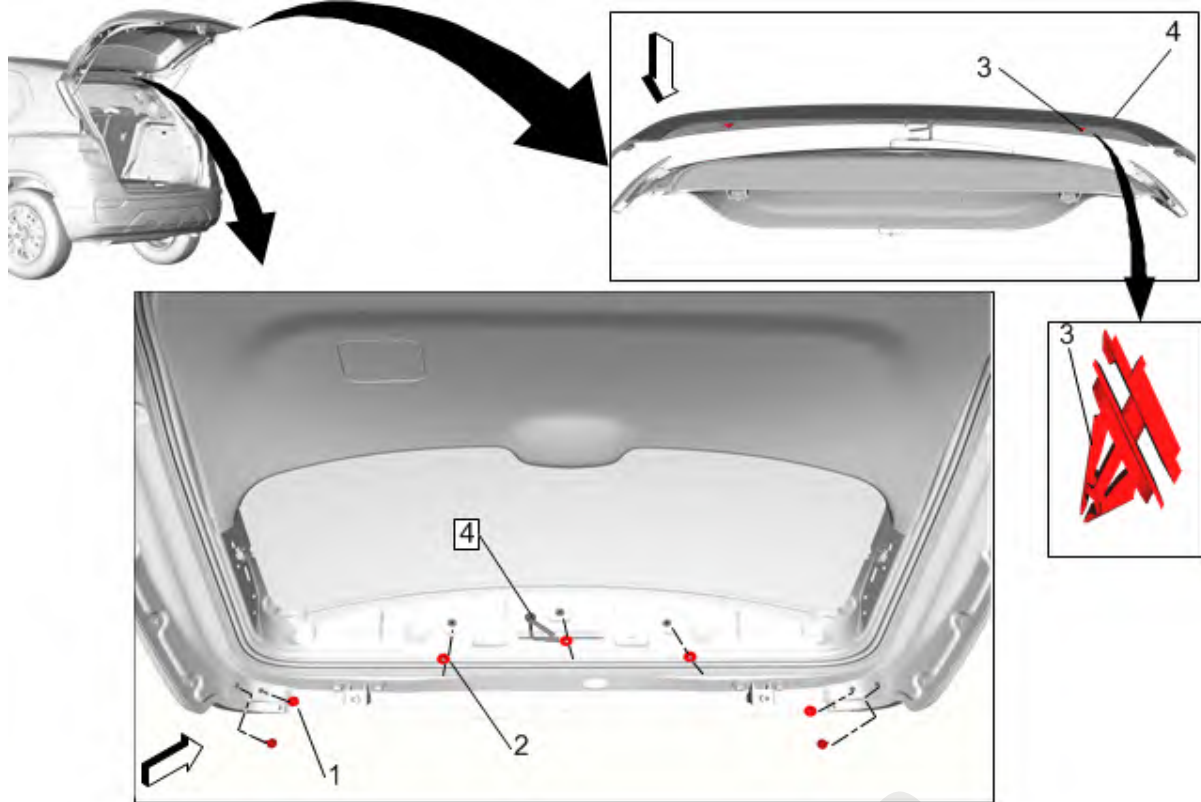


Fig. 40: Rear End Spoiler

Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
Preliminary Procedures Liftgate Upper Side Trim Finish Panel Replacement Liftgate Side Applique Replacement (Chevrolet)Liftgate Side Applique Replacement (Buick)	
1	Rear End Spoiler Bolt (Qty: 4) CAUTION: Refer to Fastener Caution . Tighten 5 N.m (44 lb in)
2	Rear End Spoiler Nut (Qty: 3) Tighten 5 N.m (44 lb in)
3	Rear End Spoiler Retainer (Qty: 2) Procedure Using the appropriate tool, release the 2 rear end spoiler retainers.
4	Rear End Spoiler Procedure - Disconnect the electrical connector. - Disconnect the rear window washer hose from the rear window washer nozzle. - Transfer components as necessary.

DESCRIPTION AND OPERATION

WATER MANAGEMENT DESCRIPTION AND OPERATION

Plenum Water Flow Direction and Cleaning

A large percentage of water will flow off the windshield area into the plenum chamber drain system and then down the outside on the plenum to the underside of the vehicle. To ensure that the plenum chamber water management system performs properly, the air inlet grille panel, plenum chamber, and drains must not be blocked with debris.

In the graphic below the gray arrows show the water flow direction in the plenum chamber and drains system.

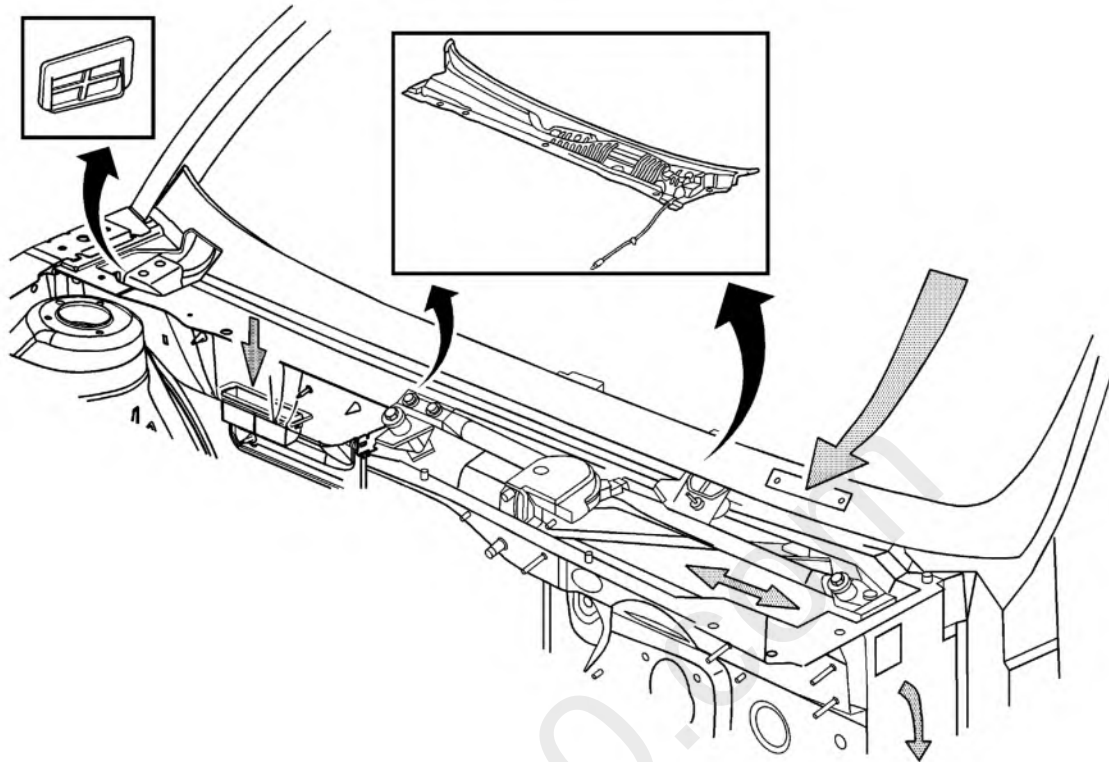


Fig. 41: Plenum Water Flow Direction And Cleaning
Courtesy of GENERAL MOTORS COMPANY

Plenum Chamber and Drain Valve-Cleaning

The plenum chamber is located in front of the windshield and below the air inlet grille panel.

1. Remove the air inlet grille panel. Refer to [Air Inlet Grille Panel Replacement \(Chevrolet\)](#), [Air Inlet Grille Panel Replacement \(Buick\)](#).
2. Clean the plenum chamber, drains and the air inlet grille panel of debris blockage.
3. Flush the plenum chamber, drains and the air inlet grille panel with clean water.
4. Install the air inlet grille panel. Refer to [Air Inlet Grille Panel Replacement \(Chevrolet\)](#), [Air Inlet Grille Panel Replacement \(Buick\)](#).