

Fastener Tightening Specifications

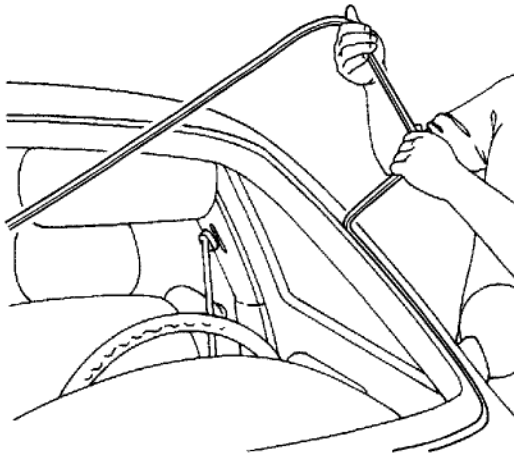
Application	Specification	
	Metric	English
Door Glass Screws	7 N·m	62 lb in
Exterior Rear Door Garnish Molding Screws	1.5 N·m	13 lb in
Guide Rail Bolts	7 N·m	62 lb in
Outside Rearview Mirror Assembly Screws	4.5 N·m	40 lb in
Rearview Mirror Mounting Screw	1.2 N·m	11 lb in

Windshield Replacement

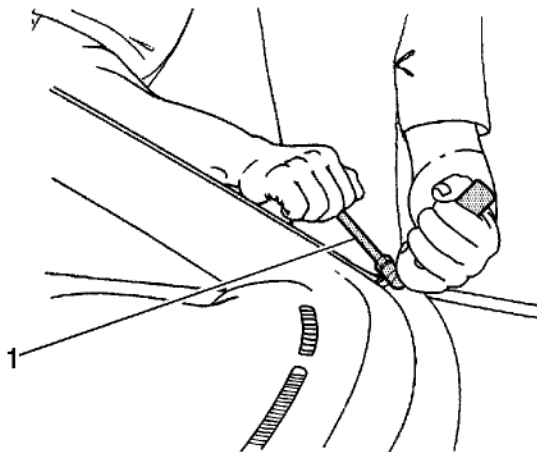
Special Tools

[J 24402-A](#) Glass Sealant Remover

Removal Procedure

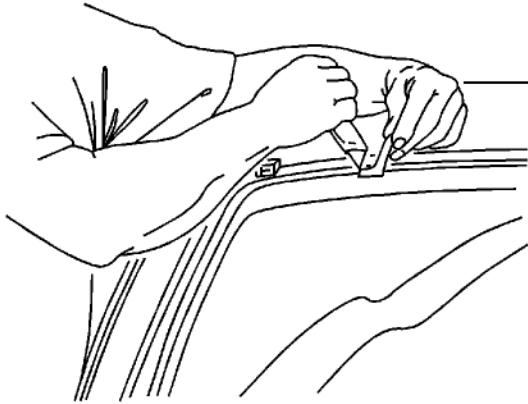


1. Remove the air inlet grille. Refer to [Air Inlet Grille Panel Replacement](#).
2. Remove the inside rearview mirror. Refer to [Inside Rearview Mirror Replacement](#).
3. Remove the weatherstrip around the windshield.





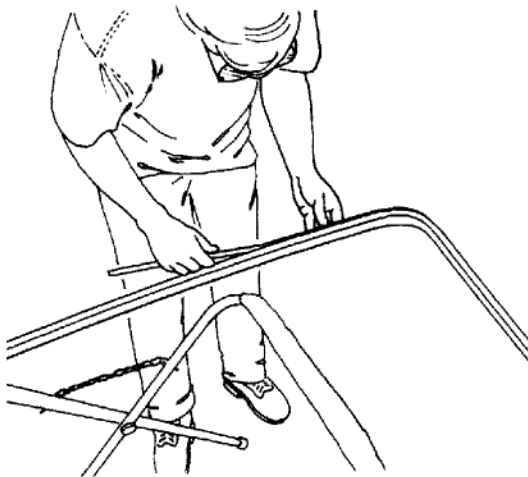
4. Using the glass sealant remover (1) [J 24402-A](#) , cut the adhesive around the windshield.



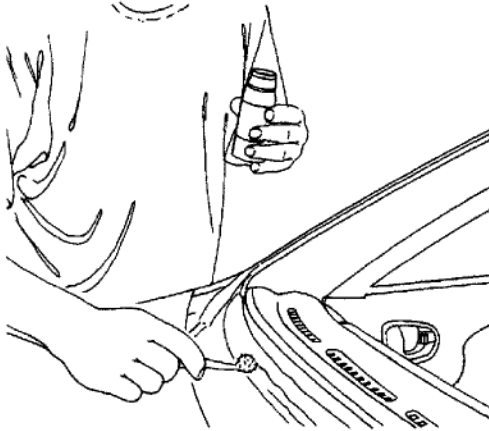
5. Remove the windshield from the vehicle.
6. Using a knife, remove the adhesive from the windshield.
7. Using a knife, remove the adhesive from the windshield frame.

Installation Procedure

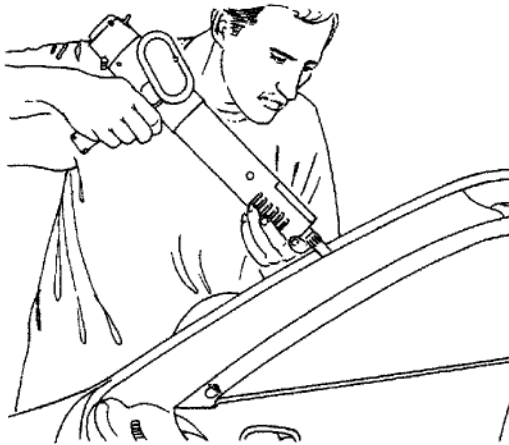
Caution: Refer to [Windshield Installation Caution](#) in the Preface section.



1. Install the new weatherstrip to the windshield.



2. Apply tape to the new weatherstrip and the windshield to hold the weatherstrip in place.
3. Apply adhesive primer to the windshield frame and the perimeter of the windshield.



4. Apply glass adhesive to the windshield frame.

Warning: Insufficient curing of urethane adhesive may allow unrestrained occupants to be ejected from the vehicle resulting in personal injury.

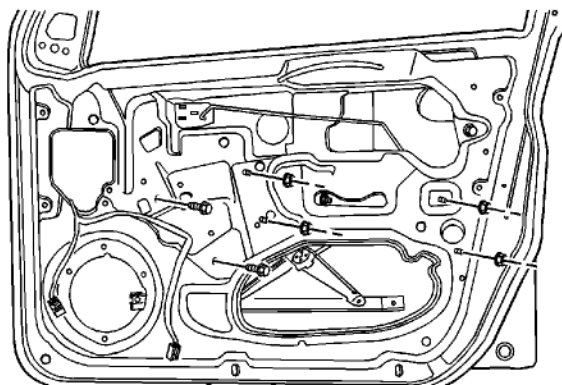
- For the moisture-curing type of urethane adhesive, allow a minimum of 6 hours at 21°C (70°F) or greater and with at least 30 percent relative humidity. Allow at least 24 hours for the complete curing of the urethane adhesive.
- For the chemical-curing type of urethane adhesive, allow a minimum of 1 hour.

Do NOT physically disturb the repair area until after these minimum times have elapsed.

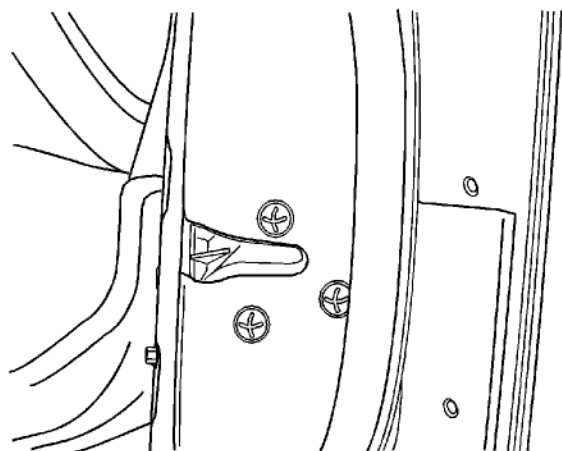
5. Install the windshield into the windshield frame.
6. Reposition the tape over the weatherstrip, the windshield, and the windshield frame to hold the windshield in place.
7. Let the adhesive dry for 24 hours.
8. Remove the tape.
9. Check for waterleaks by pouring water on the windshield. If a leak is found, dry the windshield and fill the area that leaks with adhesive. If the leak persists, remove the windshield and repeat the entire procedure.
10. Install the inside rearview mirror. Refer to [Inside Rearview Mirror Replacement](#).
11. Install the air inlet grille. Refer to [Air Inlet Grille Panel Replacement](#).

Front Side Door Window Replacement

Removal Procedure



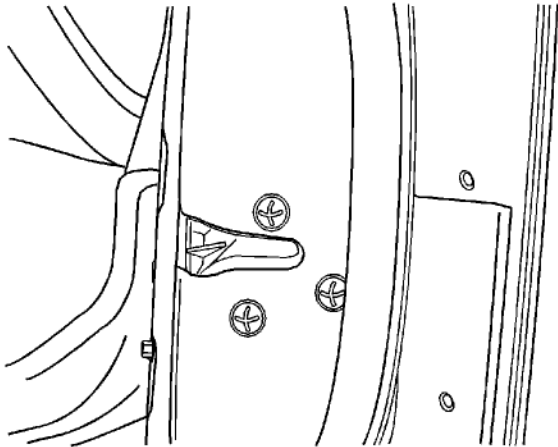
1. Remove the front door trim panel. Refer to [Front Side Door Trim Panel Replacement](#).
2. Remove the door seal trim. Refer to [Door Water Deflector Replacement](#).
3. Remove the outside channel molding. Refer to [Front Side Door Window Channel Replacement](#).
4. Remove the screws that secure the glass to the window regulator.



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5. Remove the bolts and the guide rail.
6. Remove the glass from the door.

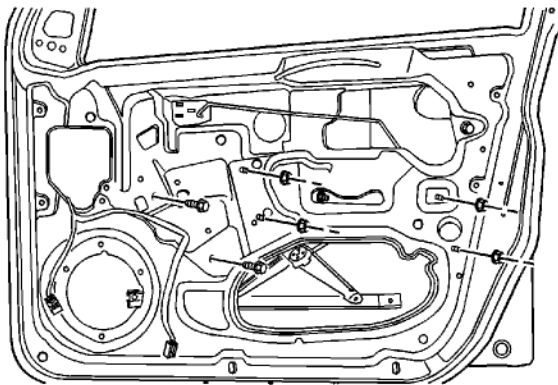
Installation Procedure



1. Install the glass in the door.

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

2. Install the guide rail and the bolts. Tighten the guide rail bolts to **7 N·m (62 lb in)**.

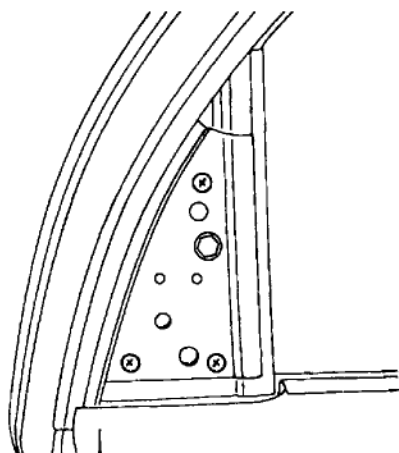


3. Install the glass to the window regulator with the screws. Tighten the door glass screws to **7 N·m (62 lb in)**.

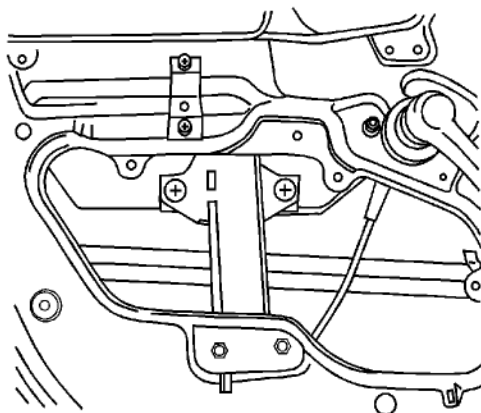
4. Install the outside channel molding. Refer to [Front Side Door Window Channel Replacement](#).
5. Install the door seal trim. Refer to [Door Water Deflector Replacement](#).
6. Install the front door trim panel. Refer to [Front Side Door Trim Panel Replacement](#).

Rear Side Door Window Replacement

Removal Procedure



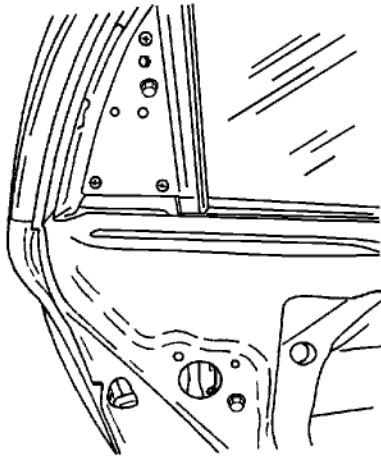
1. Remove the rear door trim panel. Refer to [Rear Door Trim Panel Replacement](#).
2. Remove the outside channel molding. Refer to [Rear Side Door Window Channel Replacement](#).
3. Remove the interior rear door garnish molding.
4. Remove the screws and the exterior rear door garnish molding.



5. Remove the door seal trim. Refer to [Door Water Deflector Replacement](#).

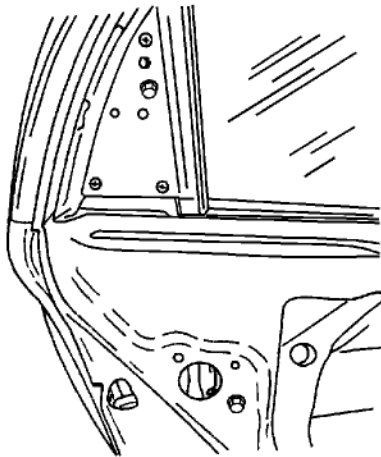
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6. Remove the screws that secure the glass to the window regulator.



7. Remove the bolts and the guide rail.
8. Remove the glass from the door.

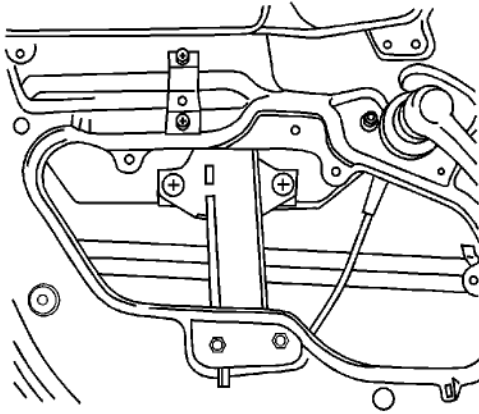
Installation Procedure



1. Install the glass in the door.

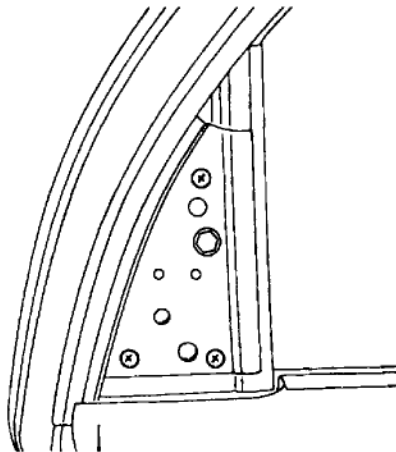
Caution: Refer to [Fastener Caution](#) in the Preface section.

2. Install the guide rail and the bolts. Tighten the guide rail bolts to **7 N·m (62 lb in)**.



3. Position the glass within the window regulator.
4. Install the glass screws.

Tighten the door glass screws to **7 N·m (62 lb in)**.



5. Install the door seal trim. Refer to [Door Water Deflector Replacement](#).
6. Install the exterior rear door garnish molding with the screws and tighten to **1.5 N·m (13 lb in)**.
7. Install the interior rear door garnish molding.
8. Install the outside channel molding. Refer to [Rear Side Door Window Channel Replacement](#).
9. Install the rear door trim panel. Refer to [Rear Door Trim Panel Replacement](#).

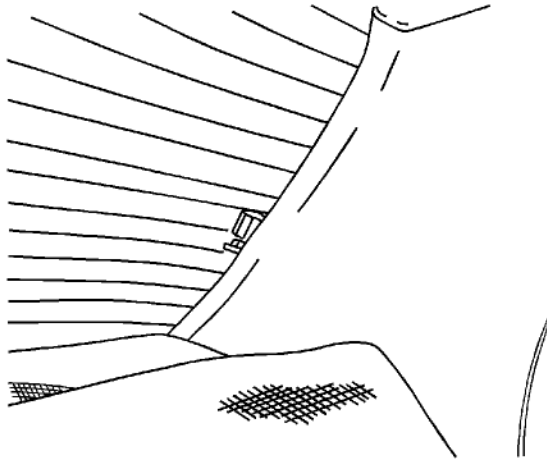
Rear Window Replacement

Special Tools

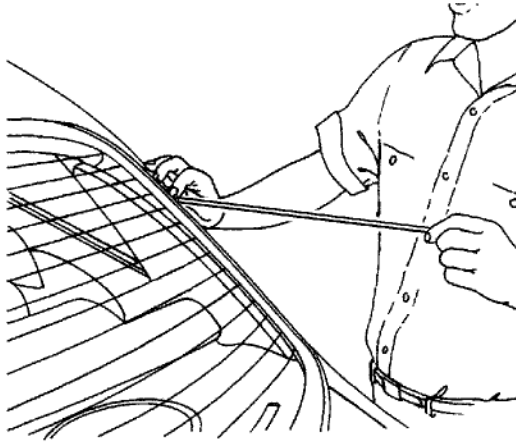
[J 24402-A](#) Glass Sealant Remover

Removal Procedure

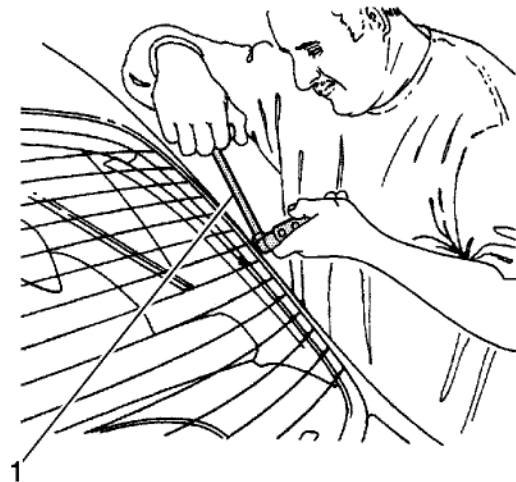
Warning: Refer to [Battery Disconnect Warning](#) in the Preface section.



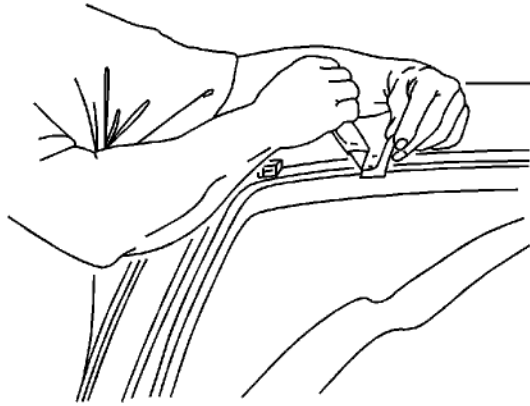
1. Disconnect the negative battery cable.
2. Disconnect the rear window defogger electrical connectors, left side electrical connector shown, right side electrical connector similar.



3. Remove the weatherstrip around the rear window.



4. Using the [J 24402-A](#) (1), cut the adhesive around the rear window.

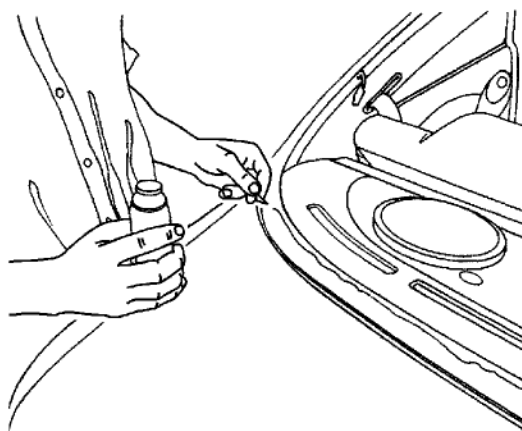


5. Remove the rear window from the vehicle.
6. Using a knife, remove the adhesive from the rear window.
7. Using a knife, remove the adhesive from the rear window frame.

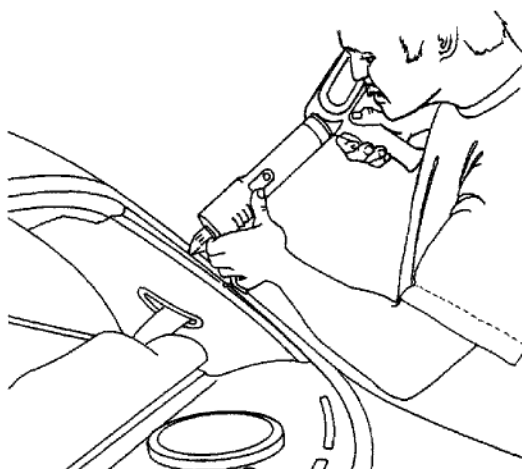
Installation Procedure



1. Install the new weatherstrip to the rear window.



2. Apply tape to the new weatherstrip and the rear window to hold the weatherstrip in place.
3. Apply the adhesive primer to the rear window frame and the perimeter of the rear window.

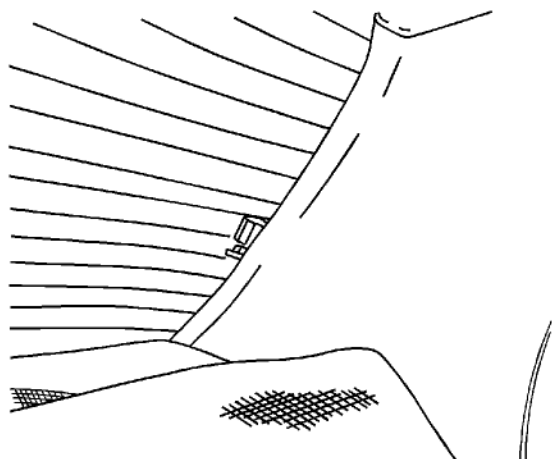


Warning: Insufficient curing of urethane adhesive may allow unrestrained occupants to be ejected from the vehicle resulting in personal injury.

- For the moisture-curing type of urethane adhesive, allow a minimum of 6 hours at 21°C (70°F) or greater and with at least 30 percent relative humidity. Allow at least 24 hours for the complete curing of the urethane adhesive.
- For the chemical-curing type of urethane adhesive, allow a minimum of 1 hour .

Do NOT physically disturb the repair area until after these minimum times have elapsed.

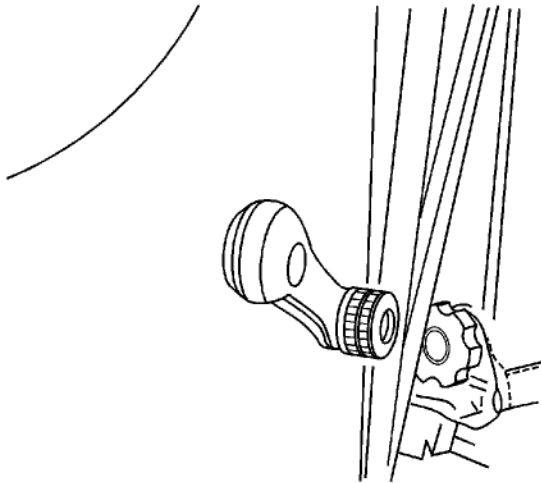
4. Apply glass adhesive to the rear window frame.



5. Install the rear window into the rear window frame.
6. Reposition the tape over the weatherstrip, the rear window, and the rear window frame to hold the rear window in place.
7. Let the adhesive dry for 24 hours.
8. Remove the tape.
9. Check for waterleaks by pouring water on the rear window. If a leak is found, dry the window and fill the area that leaks with adhesive. If the leak persists, remove the rear window and repeat the entire procedure.
10. Connect the rear window defogger electrical connectors, left side electrical connector shown, right side electrical connector similar.
11. Connect the negative battery cable.

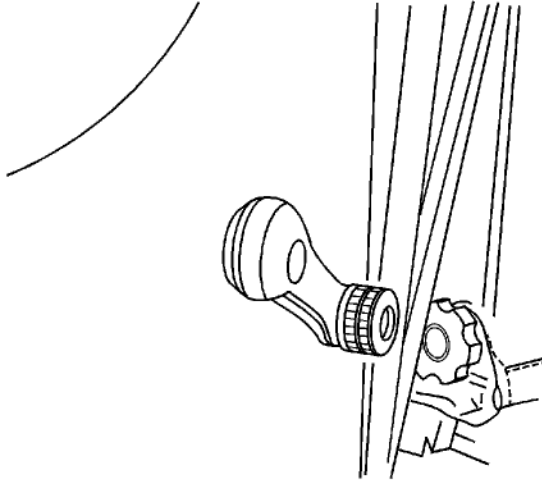
Door Window Regulator Handle Replacement

Removal Procedure



1. Push the plastic ring behind the window regulator handle toward the door to reveal the metal clip.
2. Pry off the metal clip.
3. Remove the window regulator handle and the plastic ring.

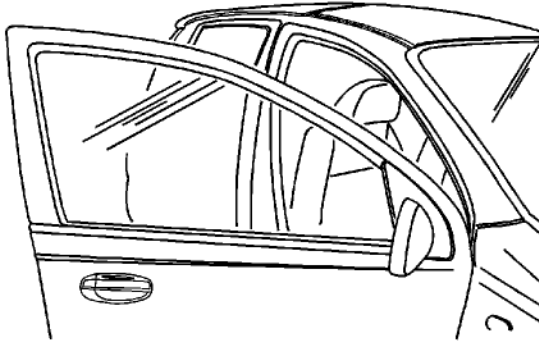
Installation Procedure



1. Install the plastic ring.
2. Install the window regulator handle.
3. Insert the metal clip.

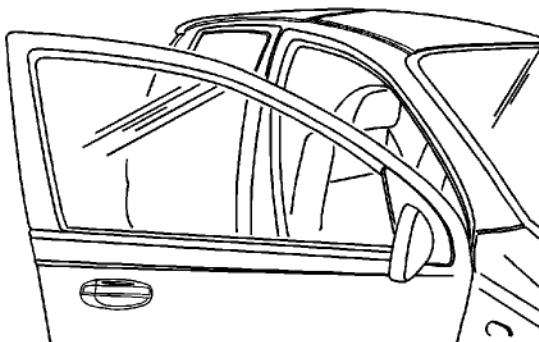
Front Side Door Window Channel Replacement

Removal Procedure



1. Remove the outside rearview mirror. Refer to [Outside Rearview Mirror Replacement](#).
2. Remove the front door glass. Refer to [Front Side Door Window Replacement](#).
3. Remove the glass run.

Installation Procedure

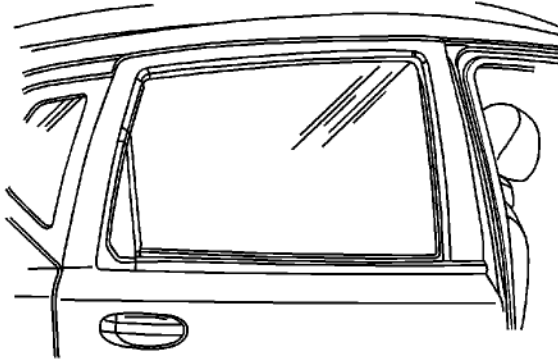




1. Install the glass run.
2. Install the front door glass. Refer to [Front Side Door Window Replacement](#).
3. Install the outside rearview mirror. Refer to [Outside Rearview Mirror Replacement](#).

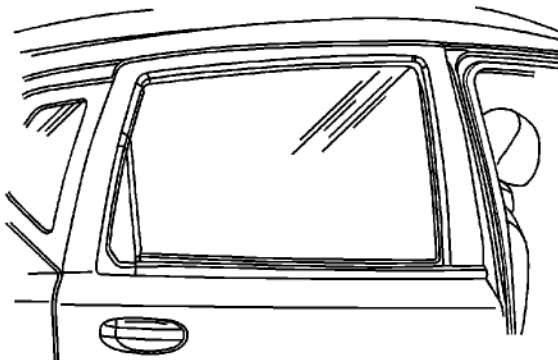
Rear Side Door Window Channel Replacement

Removal Procedure



1. Remove the rear door glass. Refer to [Rear Side Door Window Replacement](#) .
2. Remove the rear door interior and exterior garnish trim.
3. Remove the glass run.

Installation Procedure

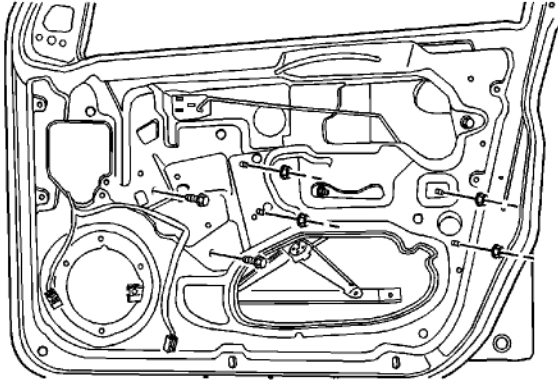




1. Install the glass run.
2. Install the rear door interior and exterior garnish trim.
3. Install the rear door glass. Refer to [Rear Side Door Window Replacement](#) .

Door Window Regulator Replacement (Manual Front)

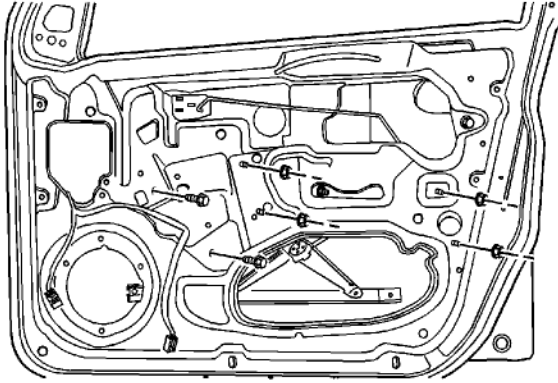
Removal Procedure



1. Remove the front door glass. Refer to [Front Side Door Window Replacement](#).
2. Remove the nuts and the window regulator.

Installation Procedure

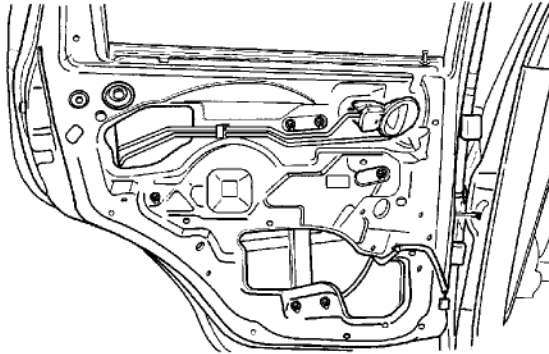
Caution: Refer to [Fastener Caution](#) in the Preface section.



1. Install the window regulator and the nuts and tighten to **7 N·m (62 lb in)**.
2. Install the front door glass. Refer to [Front Side Door Window Replacement](#).

Door Window Regulator Replacement (Manual Rear)

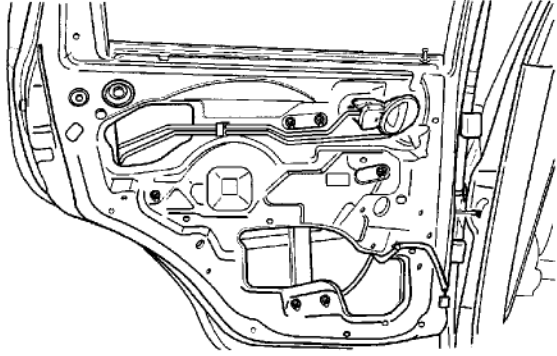
Removal Procedure



1. Remove the rear door glass. Refer to [Rear Side Door Window Replacement](#).
2. Remove the nuts and the window regulator.

Installation Procedure

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

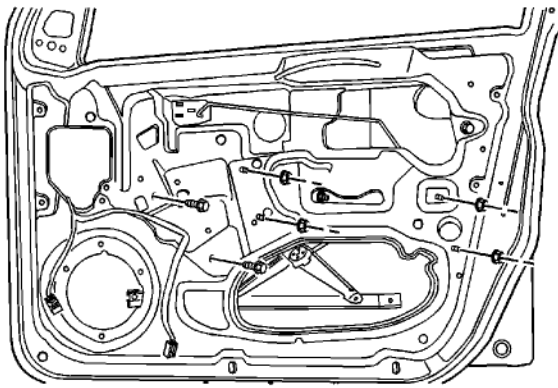


1. Install the window regulator with the nuts and tighten to **7 N·m (62 lb in)**.
2. Install the rear door glass. Refer to [Rear Side Door Window Replacement](#).

Door Window Regulator Replacement (Power Front)

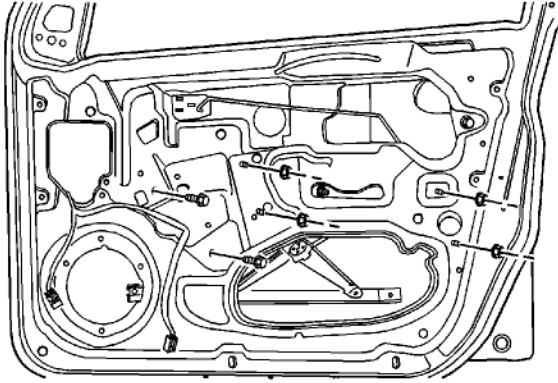
Removal Procedure

Warning: Refer to [Battery Disconnect Warning](#) in the Preface section.



1. Disconnect the negative battery cable.
2. Remove the door glass. Refer to [Front Side Door Window Replacement](#).
3. Remove the nuts and the regulator.
4. Disconnect the electrical connector.

Installation Procedure



1. Connect the electrical connector.

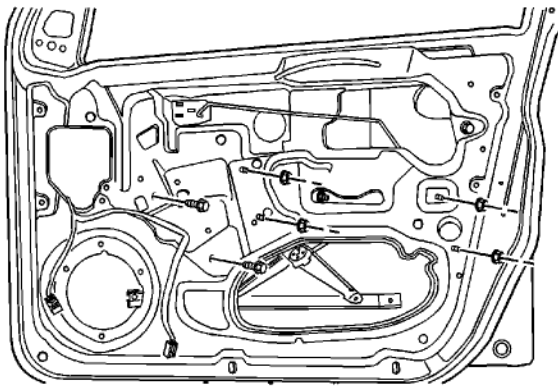
Caution: Refer to [Fastener Caution](#) in the Preface section.

2. Install the window regulator with the nuts and tighten to 7 N·m (62 lb in).
3. Install the front door glass. Refer to [Front Side Door Window Replacement](#).
4. Connect the negative battery cable.
5. If the vehicle is equipped with a one touch up function, and the driver side power window regulator has been replaced, perform the window motor reinitialization process. Refer to [Power Window Reinitialization](#).

Door Window Regulator Replacement (Power Rear)

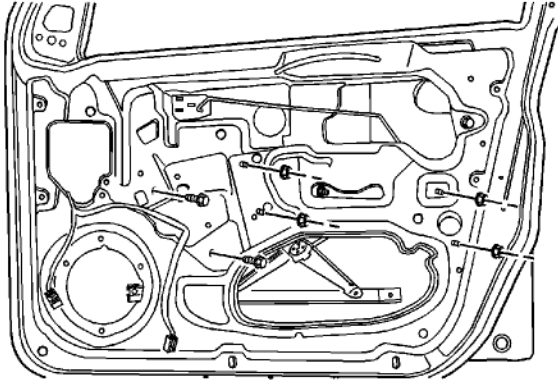
Removal Procedure

Warning: Refer to [Battery Disconnect Warning](#) in the Preface section.



1. Disconnect the negative battery cable.
2. Remove the rear door glass. Refer to [Rear Side Door Window Replacement](#).
3. Remove the nuts and the regulator.
4. Disconnect the electrical connector.

Installation Procedure



1. Connect the electrical connector.

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

2. Install the window regulator with the nuts and tighten to 7 N·m (62 lb in).
3. Install the rear door glass. Refer to [Rear Side Door Window Replacement](#).
4. Connect the negative battery cable.

Window Motor Programming - Express Function

Windows Motor Reprogramming

Driver side window motor assembly has been designed to memorize closing and opening steps.

If the driver side window motor assembly has been replaced or reassembled, it must be reprogrammed once in order for the safety function to operate properly. This can be done by operating the driver side window switch. If the reprogramming procedure does not be performed, the driver side window does not close automatically.

The following steps explain how to reprogram the driver side window motor assembly:

1. Press the driver side window switch until the window is under 100 mm from the top of window frame.

Important: Do not pull the window switch to the second step of the Up position.

2. Pull the driver side window switch to the first step of the Up position and hold until the window is fully UP.
3. Continue holding the window switch for approximately 3 seconds after the window motor stall.
4. The driver side window motor assembly is now programmed for the safety function.
5. Confirm the reprogramming procedure by performing auto-up operation.

Power Window Reinitialization

Reinitialization Description

If the driver side power window regulator assembly has been replaced or reassembled, it must be reprogrammed once in the order for the safety function to operate properly. This can be done by operating the driver side window switch. If the reprogramming procedure is not performed, the driver side window will not close automatically.

Reinitialization Procedures

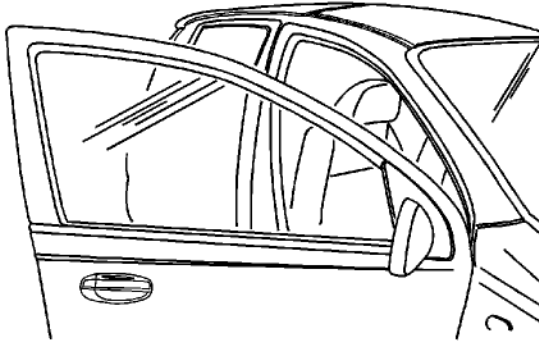
1. Press the driver side window switch until the window is under 100 mm (4.0 in) from the top of the window frame.
2. Pull the driver side window switch to the first step of the UP position and hold until the window is fully UP.

Important: Do not put the window switch to the second step of the UP position.

3. Continue holding the window switch for approximately 3 seconds after the window motor stall. The driver side window motor assembly is now programmed for the safety function.
4. Confirm the reprogramming procedure by performing the auto-up operation.

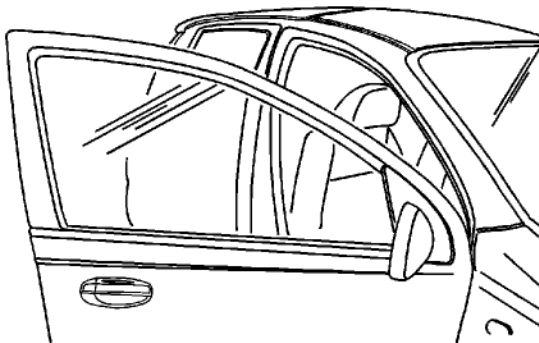
Outer Belt Sealing Strip Replacement

Removal Procedure



1. Lower the window completely.
2. Lift the outside channel molding off the door.

Installation Procedure

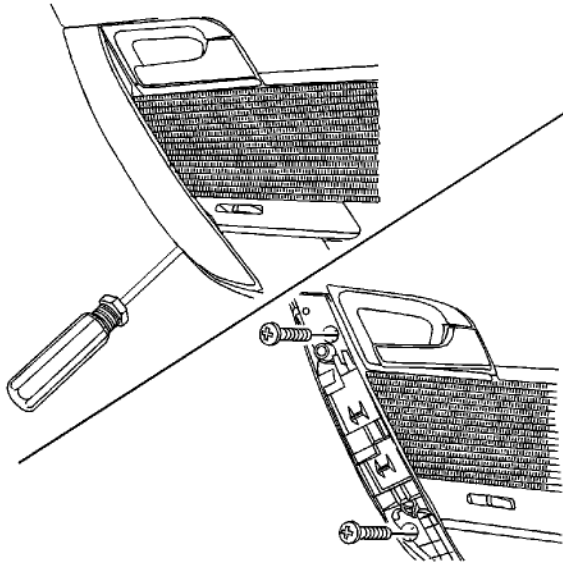




1. Press the outside channel molding onto the door.
2. Raise the window.

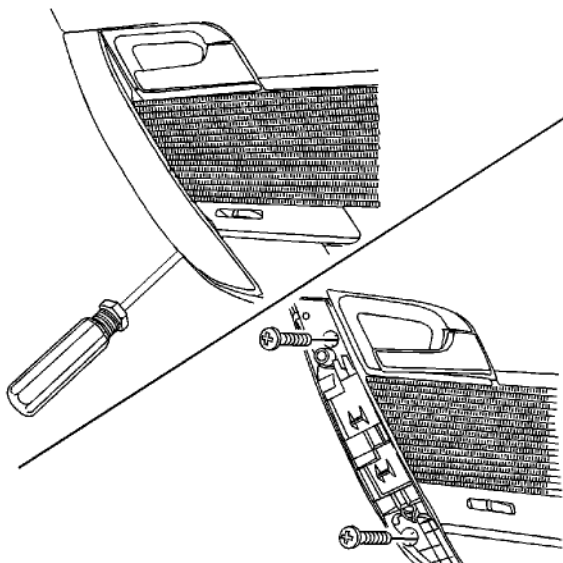
Inner Belt Sealing Strip Replacement (Notchback)

Removal Procedure



1. Remove the door trim panel. Refer to [Front Side Door Trim Panel Replacement](#) .
2. Straighten the retaining tabs in order to release the channel molding to the door trim panel.
3. Remove the channel molding.

Installation Procedure



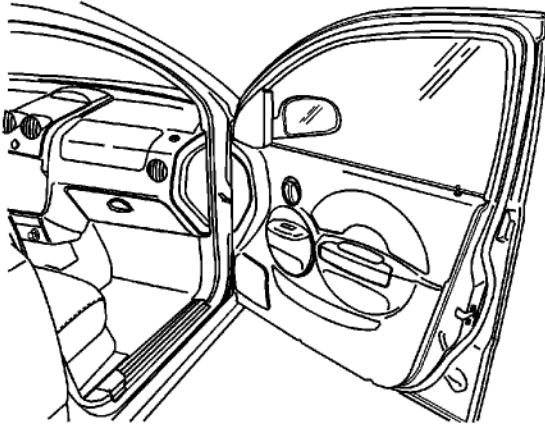
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1. Install the channel molding onto the door trim panel.
2. Bend the retaining tabs to secure the channel molding to the door trim panel.
3. Install the door trim panel. Refer to [Front Side Door Trim Panel Replacement](#) .

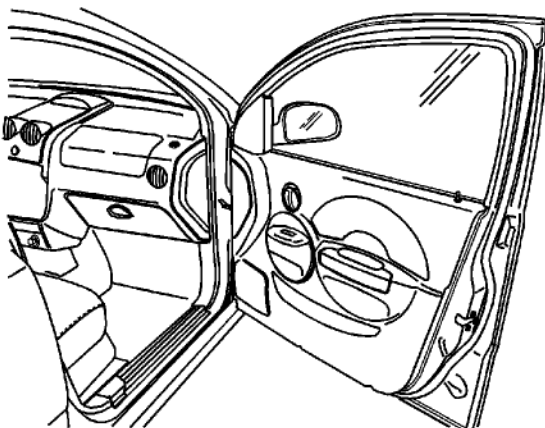
Front Side Door Window Belt Outer Sealing Strip Replacement

Removal Procedure



1. Remove the outside rearview mirror. Refer to [Outside Rearview Mirror Replacement](#).
2. Remove the front door secondary weatherstrip.

Installation Procedure

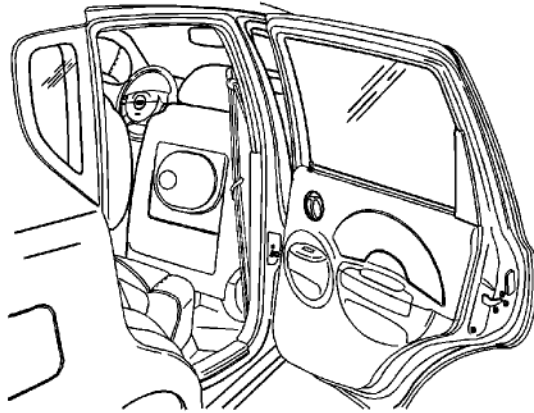




1. Install the front door secondary weatherstrip.
2. Install the outside rearview mirror. Refer to [Outside Rearview Mirror Replacement](#).

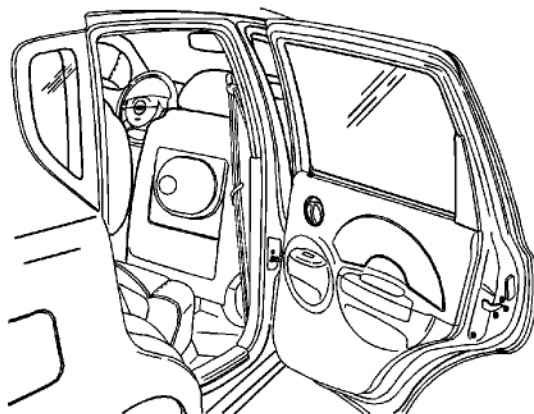
Rear Side Door Window Outer Sealing Strip Replacement

Removal Procedure



1. Remove the rear door interior and exterior garnish trim.
2. Remove the rear door secondary weatherstrip.

Installation Procedure



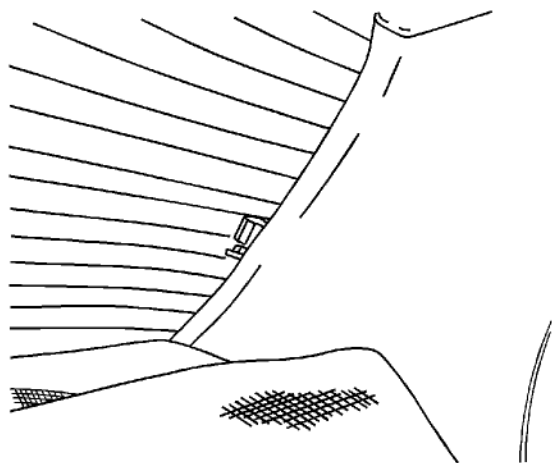


1. Install the rear door secondary weatherstrip.
2. Install the rear door interior and exterior garnish trim.

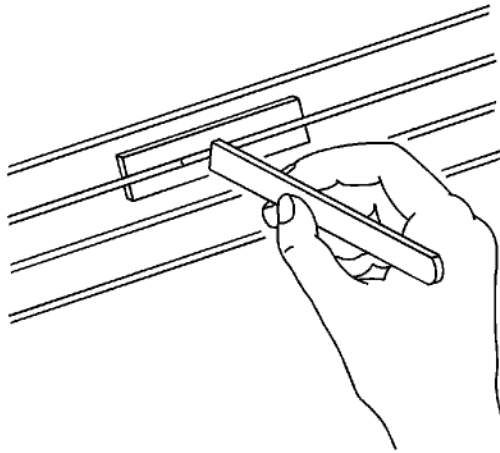
Grid Line Repair

Caution: Refer to [Avoid Damage to Grid Lines Caution](#) in the Preface section.

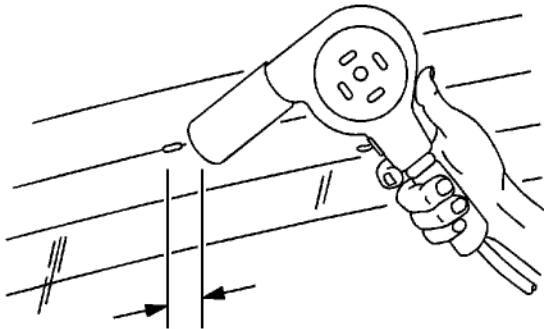
Warning: Refer to [Battery Disconnect Warning](#) in the Preface section.



1. Disconnect the negative battery cable.
2. Disconnect the rear window defogger electrical connectors, left side electrical connector shown, right side electrical connector similar.
3. Inspect the rear window defogger grid lines
4. Mark the grid line break on the outside of the glass with a wax pencil or a crayon.
5. Use steel wool to buff the grid lines that are to be repaired. Wipe the lines clean using a cloth dampened with alcohol. Buff and clean about 6 mm (0.25 in) beyond each side of the break in the grid line.



6. Attach a grid line repair decal or 2 strips of tape above and below the repair areas.
 - A repair decal or tape must be used in order to control the width of the repair areas.
 - If a decal is used, the die-cut metered slot must be the same width as the grid line.
7. Apply the grid repair material to the repair area using a small wooden stick or a spatula. The grid repair material should be at room temperature.
8. Carefully remove the decal or the tape.



Caution: The grid line repair material must be cured with heat. To avoid heat damage to the interior trim, protect the trim near the repair area where heat is to be applied.

9. Heat the repair area for 1-2 minutes.
10. Hold the heat gun nozzle 25 mm (1 in) from the surface. A minimum temperature of 149°C (300°F) is required.

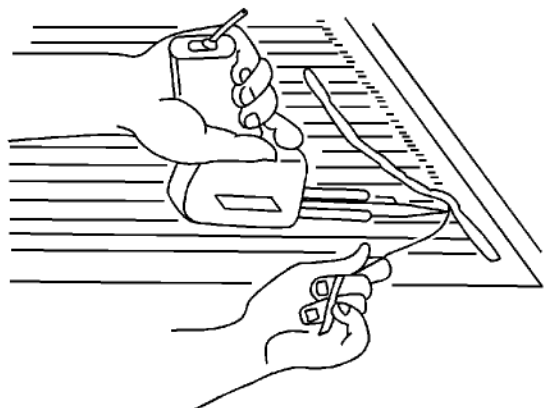
11. Inspect the grid line repair area. If the repair appears discolored, apply a coating of tincture of iodine to the area using a pipe cleaner or a line brush. Allow the iodine to dry for about 30 seconds. Carefully wipe off the excess iodine with lint-free cloth.
12. Connect the rear window defogger electrical connectors.

Warning: Refer to [Repair Material Curing Warning](#) in the Preface section.

13. Test the operation of the rear window defogger in order to verify that the repair was successful.

Rear Window Defogger Braided Lead Wire

The rear window defogger bus lead wire or the terminal can be reattached by resoldering. Use a solder containing 3 percent silver and a rosin flux paste.



1. The repair area should be buffed with fine steel wool before soldering the bus lead wire.
2. Apply the paste-type rosin flux in small quantities to the wire lead and the bus lead wire repair area using a brush.
3. Coat the soldering iron tip with solder. Use only enough solder to ensure a complete repair.
4. Use only enough heat to melt the solder. Do not overheat the wire when resoldering to the bus lead wire.