2000-03 ACCESSORIES & EQUIPMENT

Exterior/Interior Trim - Repair Instructions - X5 (4.4L/M62)

GENERAL

51 00 ... SAFETY INSTRUCTIONS FOR WORKING ON CARS WITH AIRBAG SYSTEMS

WARNING: If work is carried out in area of airbag systems, e.g. on:

- **Door trim panels**
- **Interior trims**
- **Instrument panel etc.**

the ignition must be turned off in each case.

- **The ignition must always be off.**
- **The ignition key must be removed from the ignition lock.**

This eliminates the risk of injury.

51 00 ... SERVICE POSITION OF ENGINE HOOD

Special tool setup:

SPECIAL TOOL SETUP

Model series	Special tool
E53, E85, E60, E61, E63, E64, E87	51 2 170

WARNING: A second person must hold the engine hood (risk of injury and damage).

NOTE: The illustrations below serve as examples for all corresponding vehicles. The operation is described on the left side; proceed in the same way for the right side.

Special tool can only be used on housing (1) of gas spring strut (thick part).

NOTE: Gas spring strut can also be installed the other way round (housing on hood).

Special tool can be used in both directions.

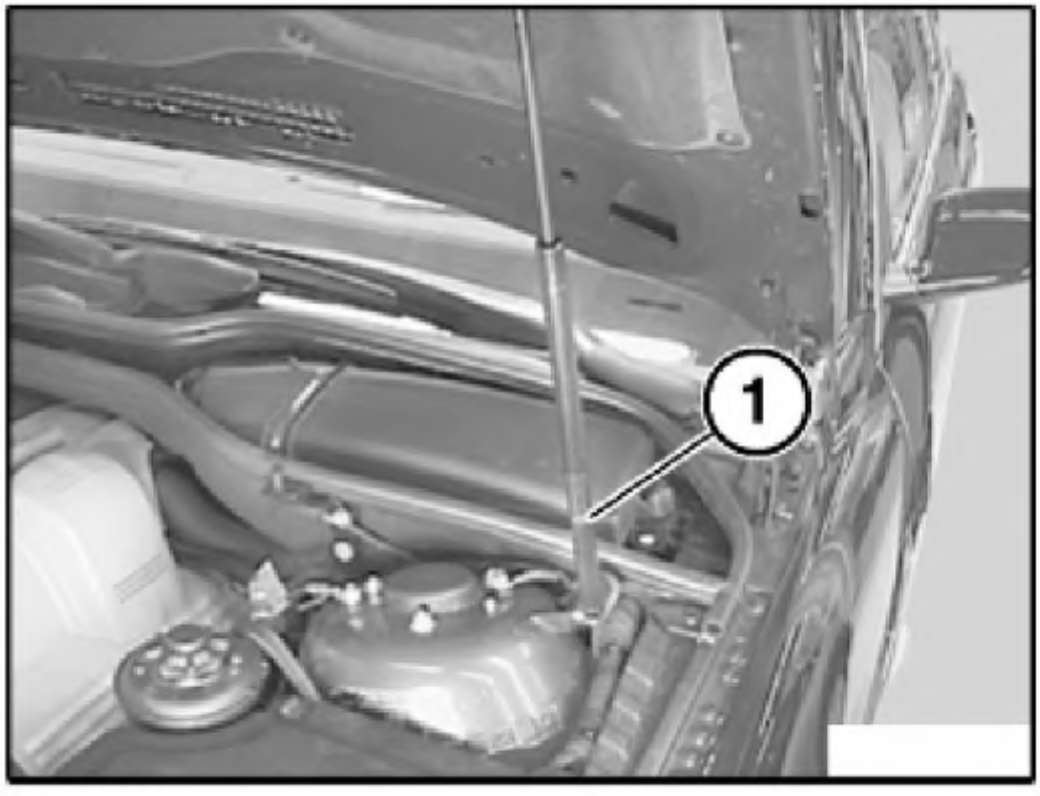


Fig. 1: Locating Housing Of Gas Spring Strut
Courtesy of BMW OF NORTH AMERICA, INC.

Release gas spring strut on left/right housing side.

Slide special tool (1) over housing (2) of gas spring strut.

Clip ball socket of special tool on ball stud.

Proceed in same way on other side.

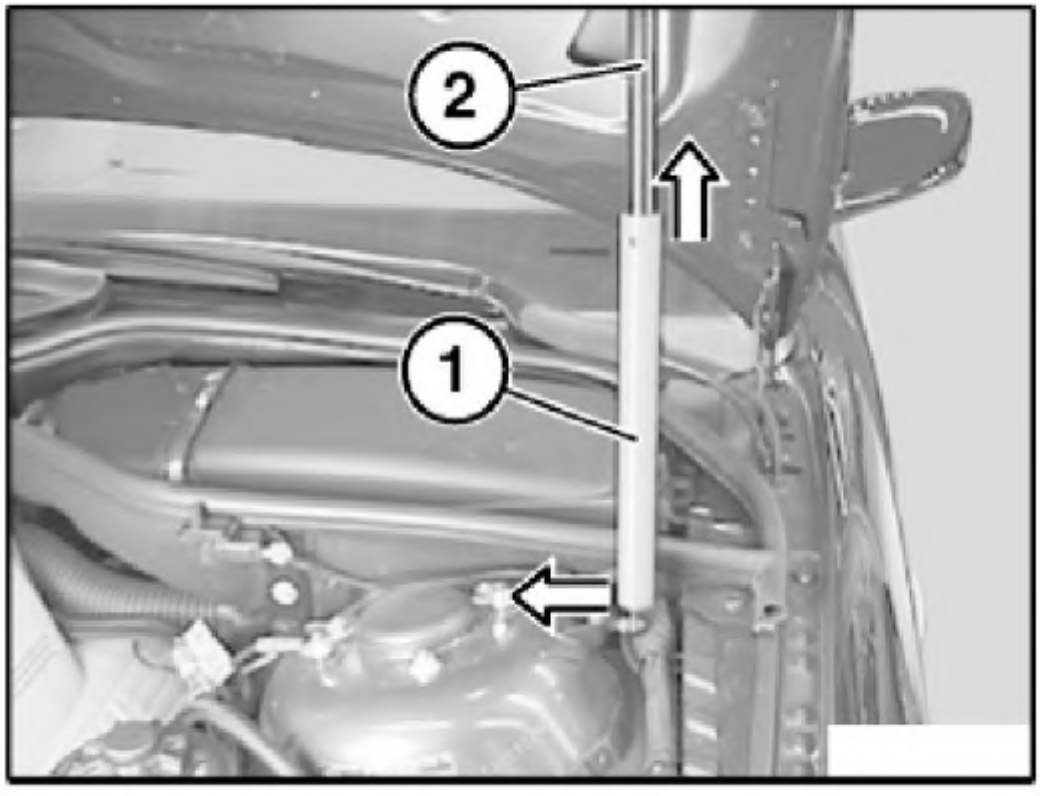


Fig. 2: Sliding Special Tool Over Housing Of Gas Spring Strut
Courtesy of BMW OF NORTH AMERICA, INC.

51 23 265 REMOVING AND INSTALLING/REPLACING LEFT OR RIGHT GAS STRUT FOR ENGINE BONNET/HOOD

WARNING: Risk of injury and damage!
For the following tasks, you must take the appropriate measures to support the engine bonnet/hood.
As an alternative, you can enlist the help of a second person to hold the bonnet/hood.

Raise bonnet/hood lid.

Removing gas spring strut at top and bottom:

1. Push retainer spring to end of gas spring strut.

2. Remove gas spring strut from ball head.

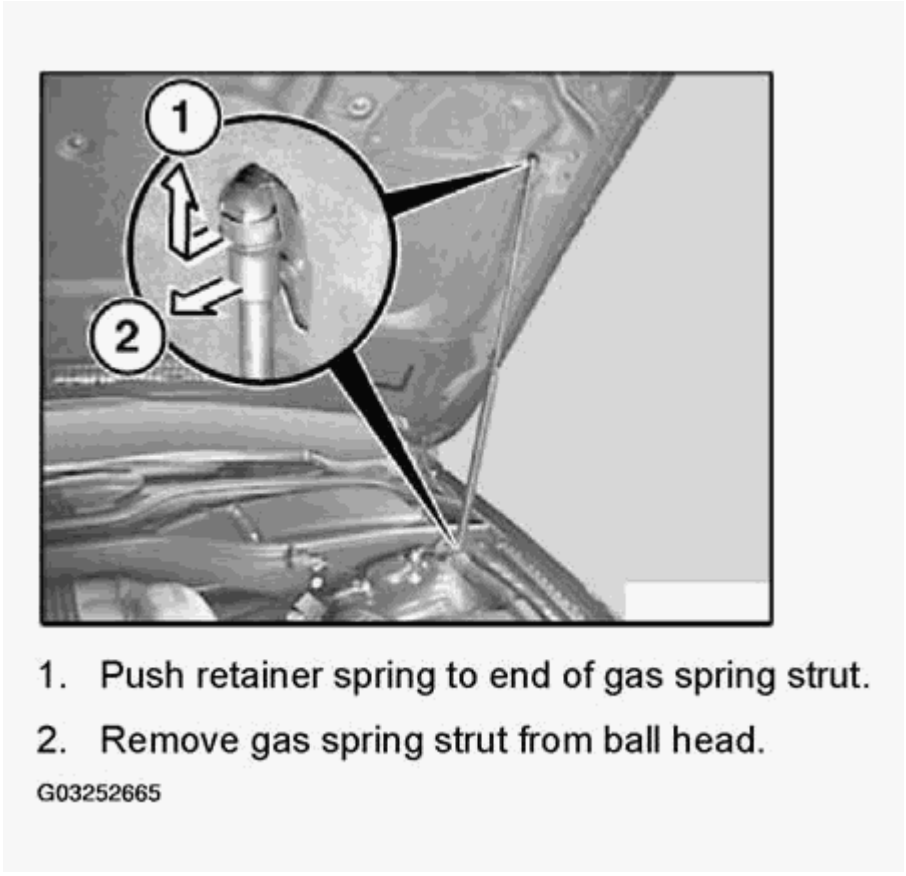


Fig. 3: Removing Gas Spring Strut At Top And Bottom
Courtesy of BMW OF NORTH AMERICA, INC.

FRONT BUMPER

51 11 050 REMOVING AND INSTALLING/REPLACING MEMBER (CROSS-MEMBER) FOR FRONT BUMPER TRIM

Necessary preliminary tasks:

- Remove underride protection

NOTE: The operation is described on the left side; proceed in the same way for the right side.

Lever lower trim (3) out of guide (1).

Unlock catches (2) and remove trim (3) in direction of arrow.

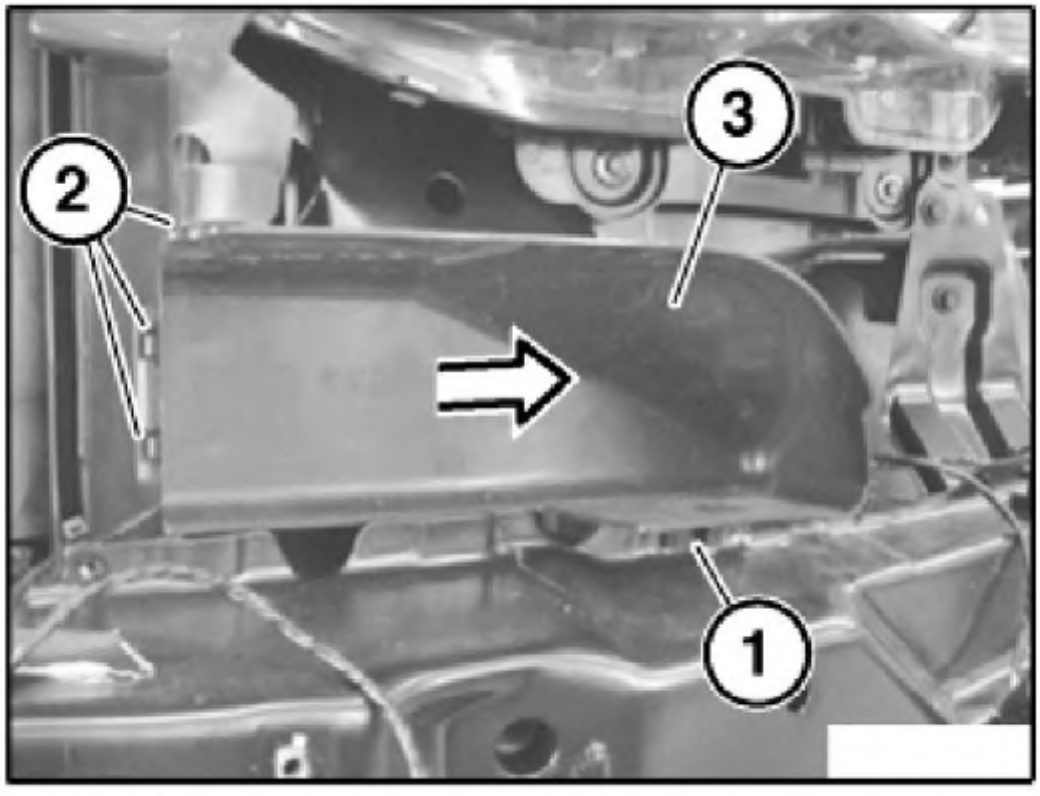


Fig. 4: Unlocking Catches And Removing Trim
Courtesy of BMW OF NORTH AMERICA, INC.

Release cable ties (1).

Disconnect plug connections (2) for fanfare horns.

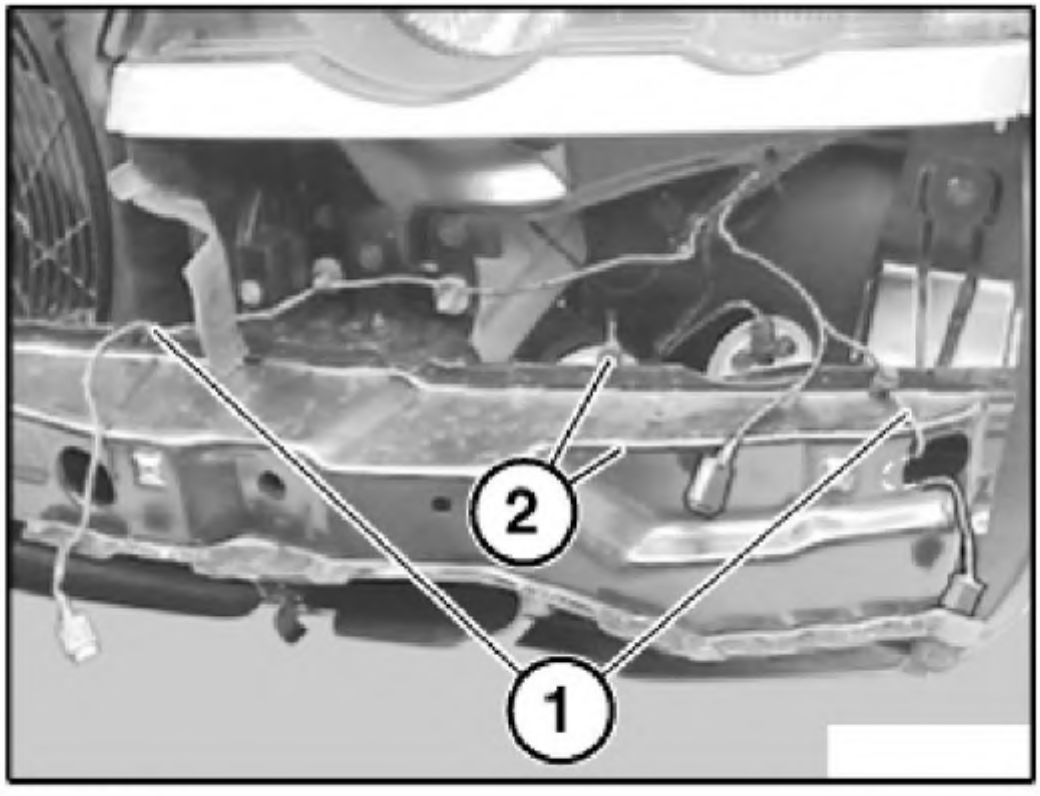


Fig. 5: Disconnecting Plug Connections For Fanfare Horns
Courtesy of BMW OF NORTH AMERICA, INC.

Release expander rivet (1) from fan impeller (2).

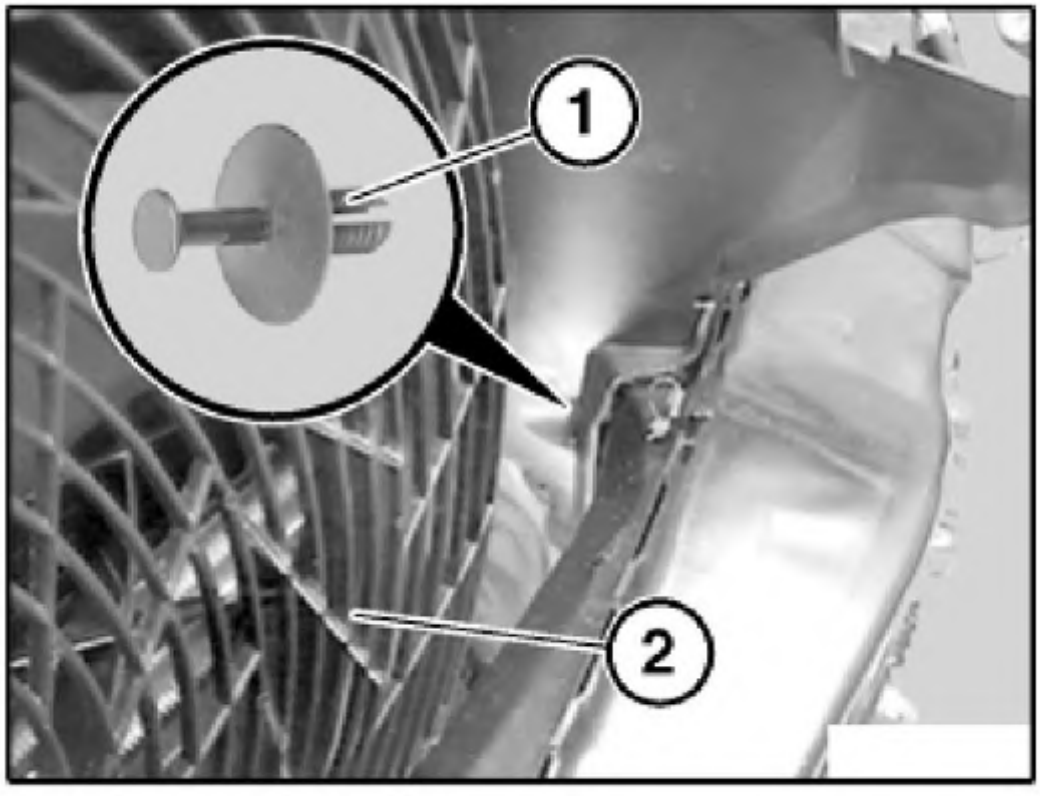


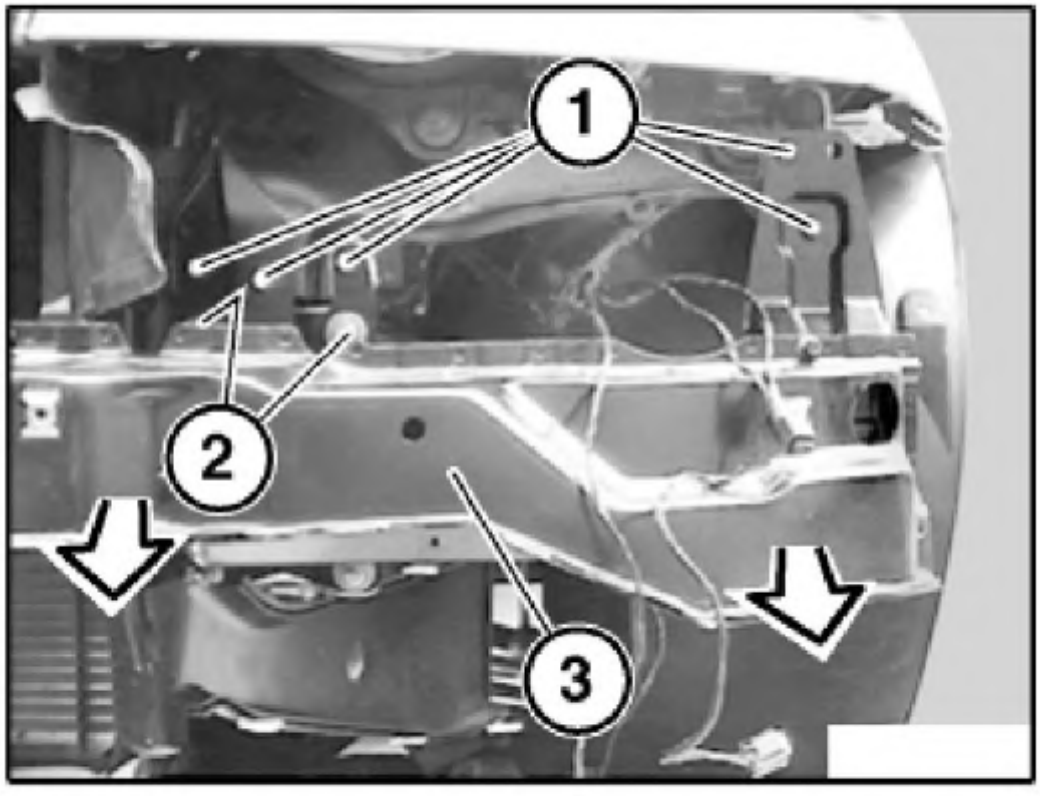
Fig. 6: Releasing Expander Rivet From Fan Impeller
Courtesy of BMW OF NORTH AMERICA, INC.

NOTE: For vertical adjustment, mark position of member (3).

Release screws (1).

Release nuts (2) and remove member (3) towards front.

Installation:



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Fig. 7: Releasing Nuts And Removing Member Towards Front
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

If necessary, replace faulty metal nuts (1).

Stud bolts (2) on member (3) must not be damaged.

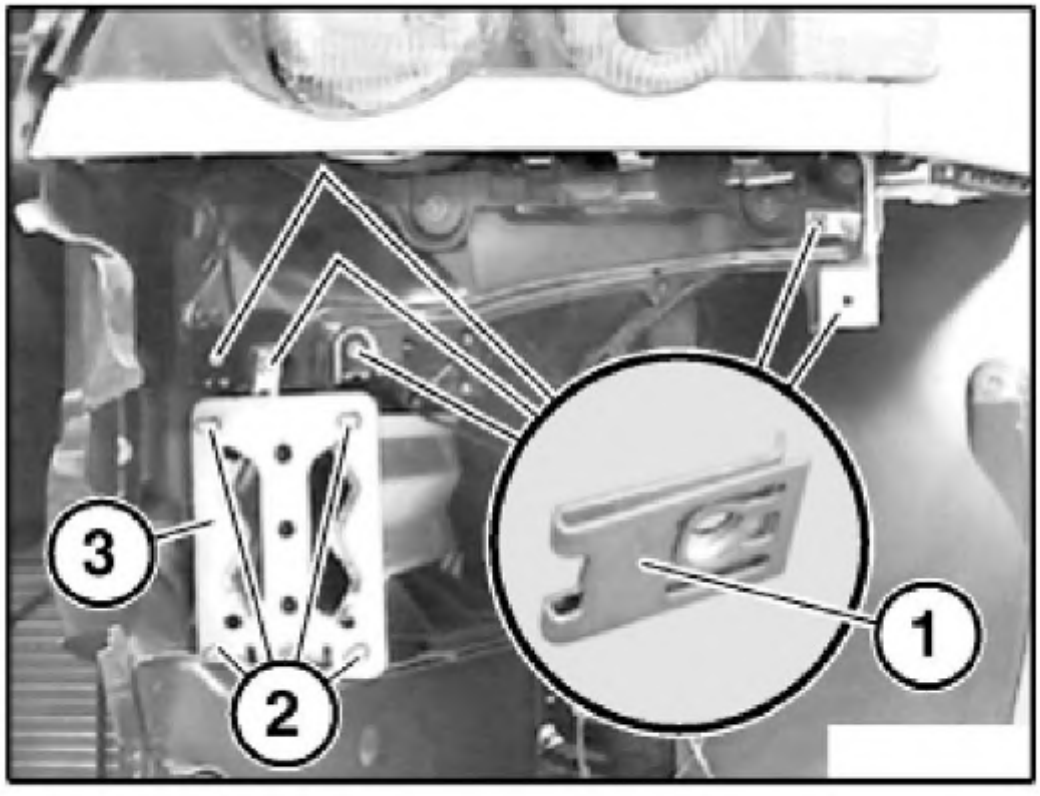


Fig. 8: Replacing Faulty Metal Nuts
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

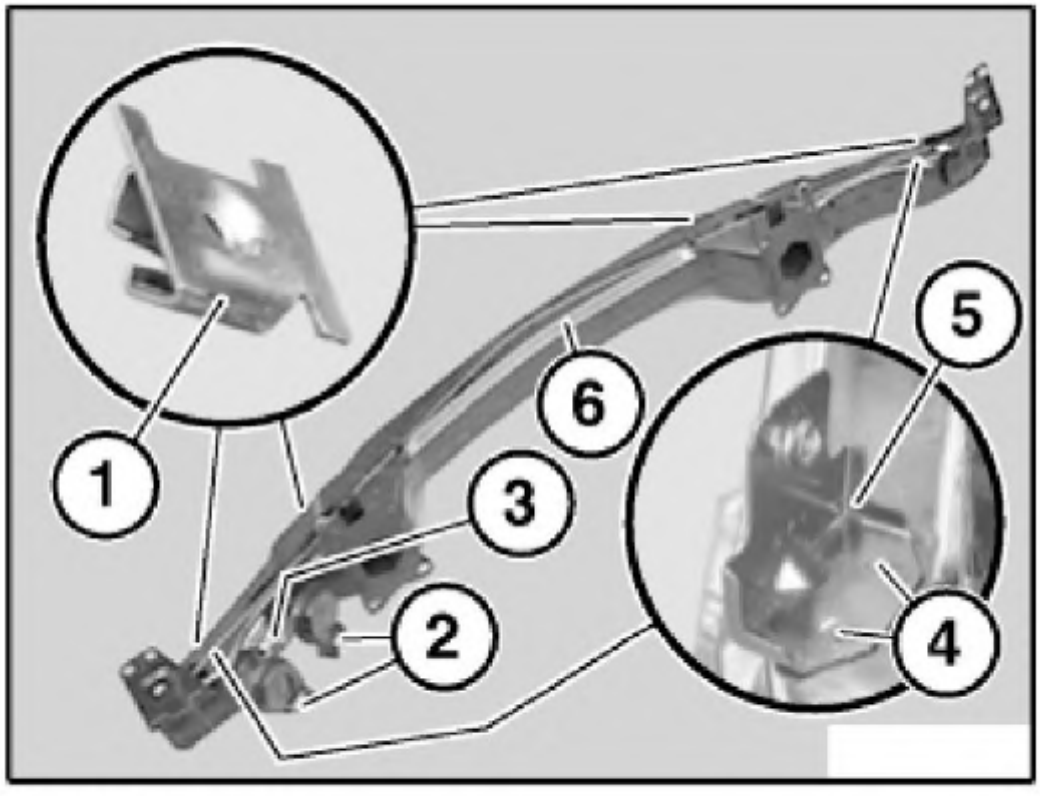
If necessary, replace faulty metal nuts (1) on member (6).

Replacement:

Release nut (3) and remove fanfare horns (2).

Version up to 10/03:

Release welding spots (4), remove holder (5) and protect bright metal plate against rusting.



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Fig. 9: Releasing Nut And Removing Fanfare Horns
Courtesy of BMW OF NORTH AMERICA, INC.

51 11 154 REMOVING AND INSTALLING/REPLACING ATTACHMENT FOR FRONT BUMPER TRIM (HP)

Release spring clips (1) in area (2) on left and right.

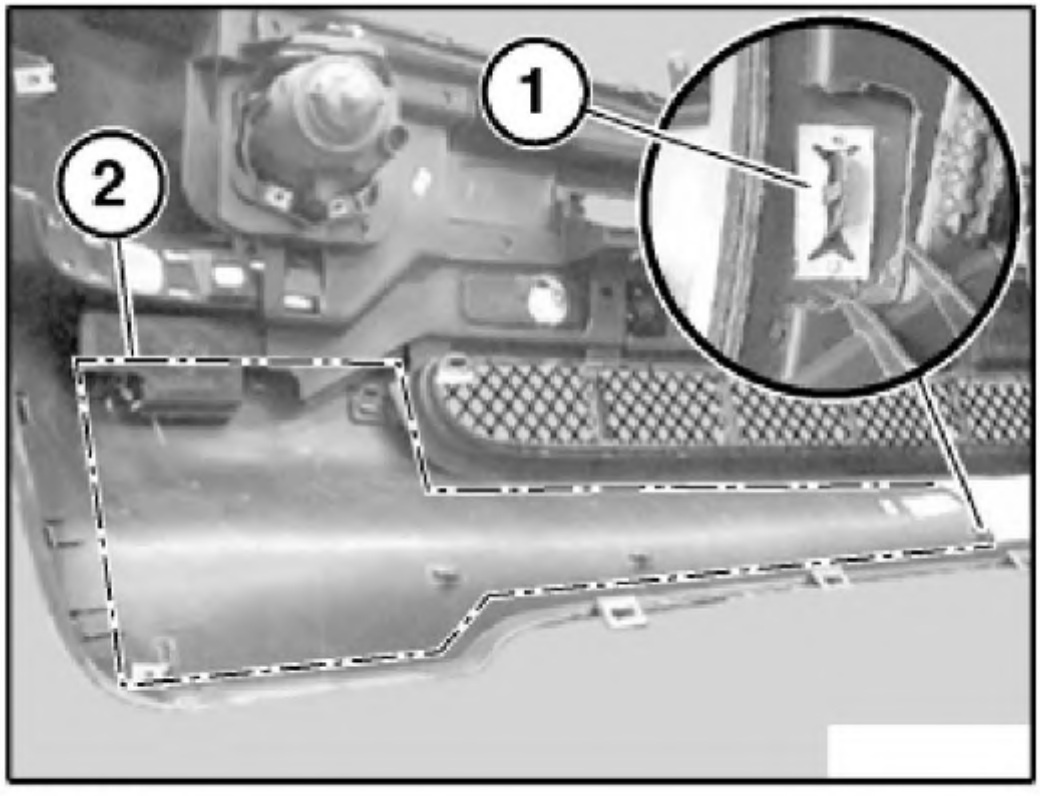


Fig. 10: Releasing Spring Clips In Area On Left And Right
Courtesy of BMW OF NORTH AMERICA, INC.

Release clips (1) on left and right and remove attachment (2) in direction of arrow.

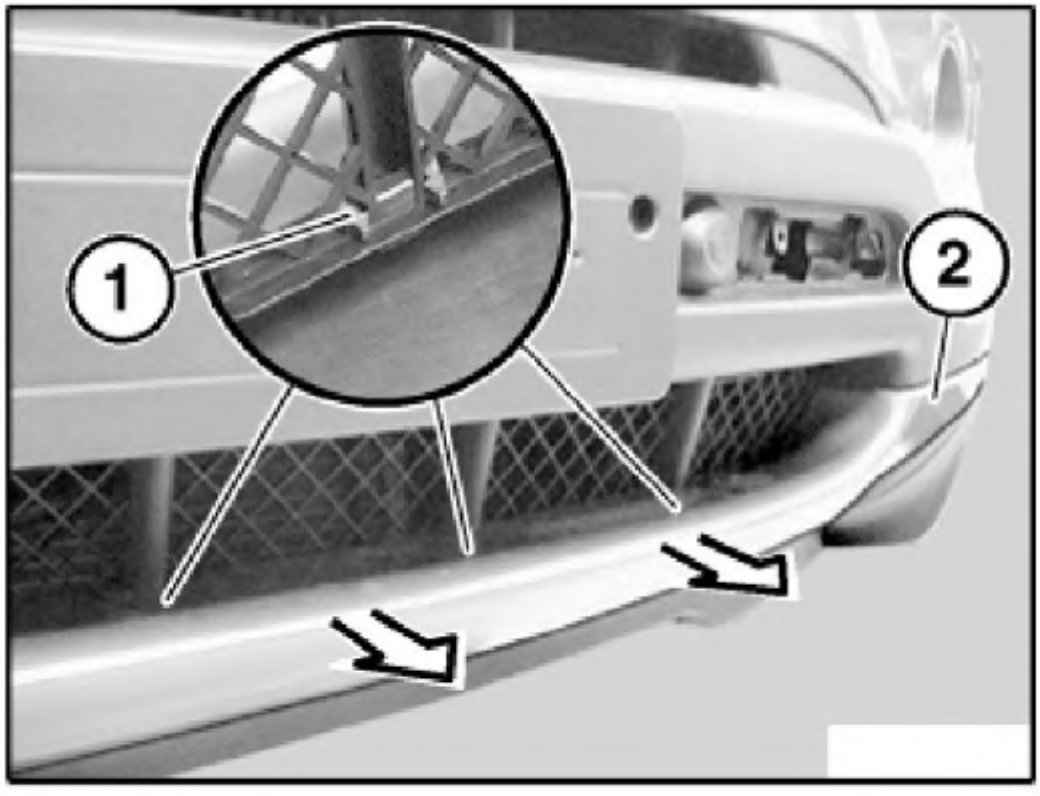


Fig. 11: Releasing Clips On Left And Right And Remove Attachment
Courtesy of BMW OF NORTH AMERICA, INC.

51 11 156 REMOVING AND INSTALLING FRONT BUMPER TRIM (UP TO 10/03)

Version with headlight cleaning system:

NOTE: Have a rubber plug on hand and, after detaching hose (3), seal pump outlet (4).

Detach cable tie (1) from hose (2).

Unlock hose (3), detach and seal pump outlet (4).

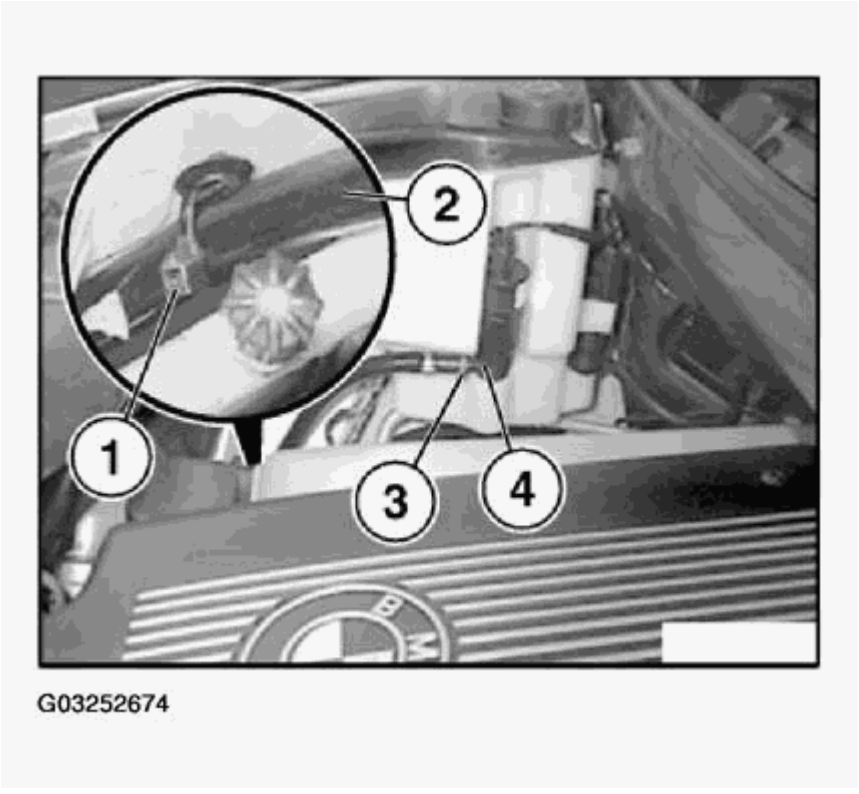


Fig. 12: Detaching And Seal Pump Outlet
Courtesy of BMW OF NORTH AMERICA, INC.

Release screws (1) on left/right and lift out wheel arch finishers (2) at side.

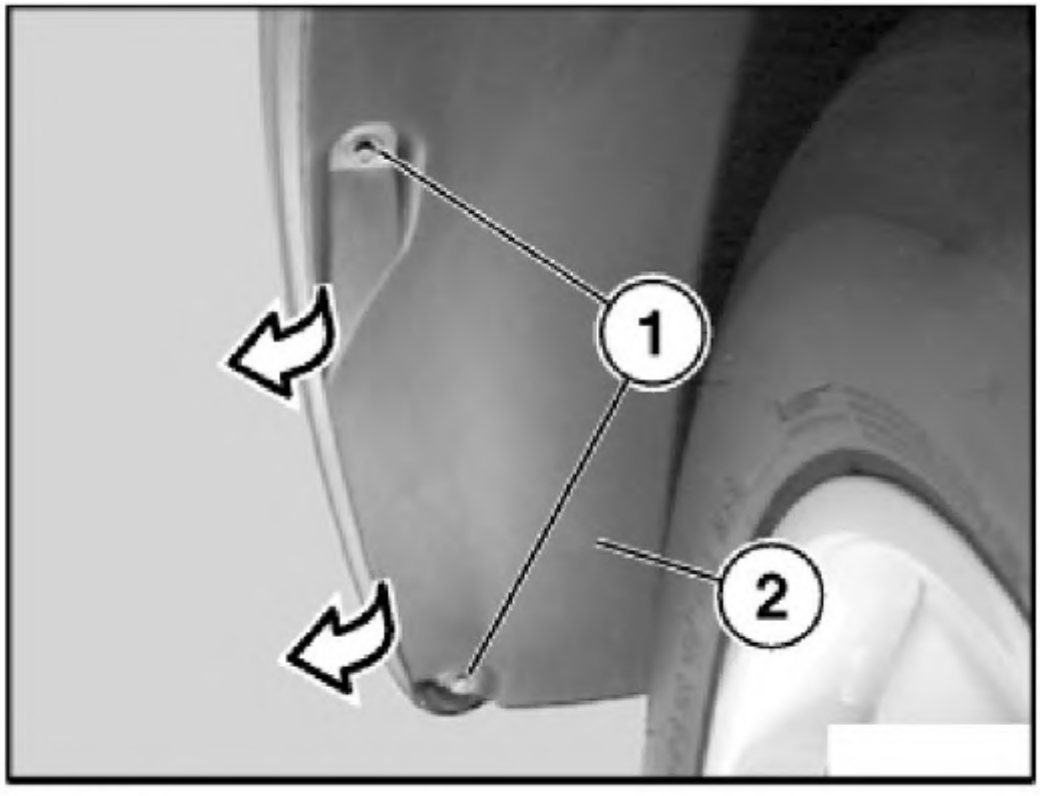


Fig. 13: Releasing Screws On Left/Right And Lift Out Wheel Arch Finishers
Courtesy of BMW OF NORTH AMERICA, INC.

Lever out finishers (1 and 2) on left/right and remove.

Version with Park Distance Control:

Disconnect plug connection on ultrasonic sensors (3) and remove finisher (2).

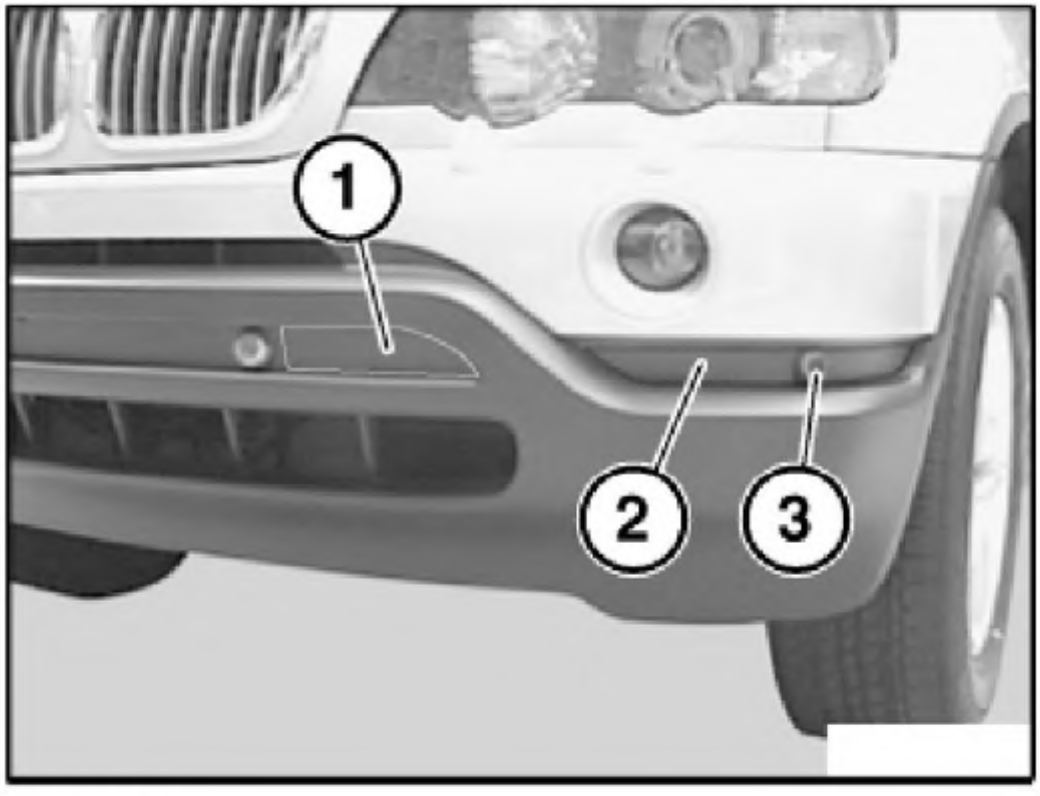


Fig. 14: Disconnecting Plug Connection On Ultrasonic Sensors
Courtesy of BMW OF NORTH AMERICA, INC.

Raise hood lid.

Release screws (1) on left/right.

Installation:

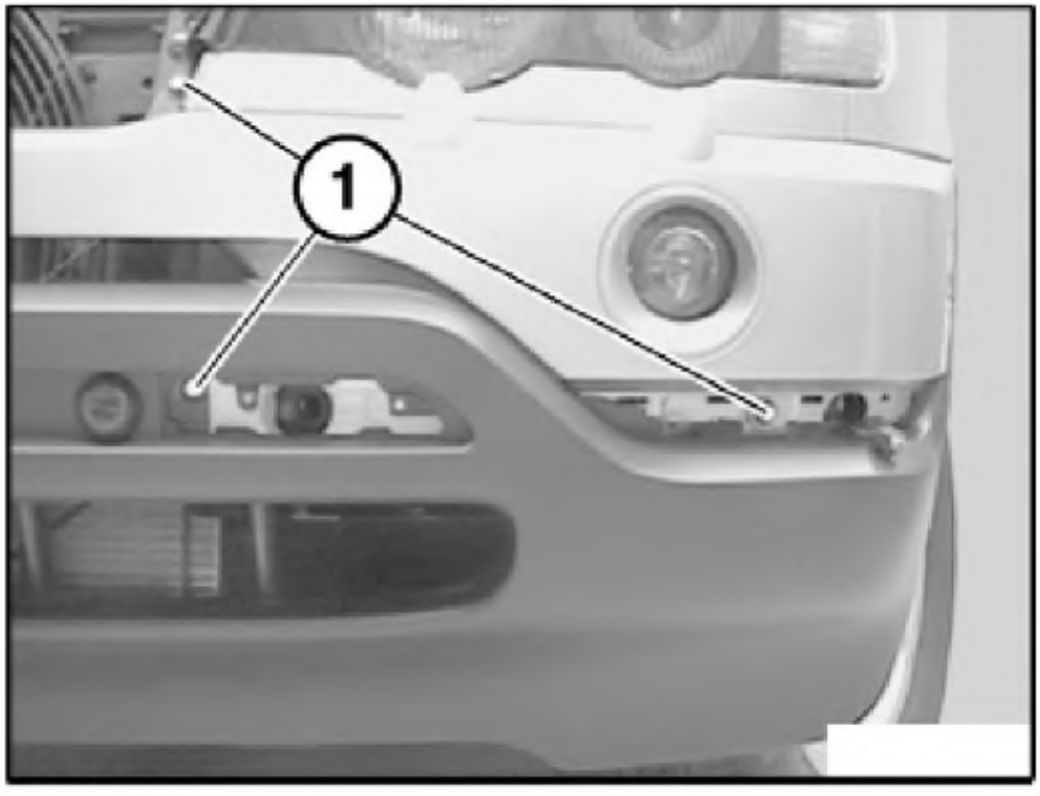


Fig. 15: Releasing Screws On Left/Right
Courtesy of BMW OF NORTH AMERICA, INC.

Release screws (1).

Version with Park Distance Control and/or front fog lamps:

If necessary, pull bumper trim (2) forward a little and disconnect plug connections on ultrasonic sensors (3) and fog lamps (4).

Pull off bumper trim (2) and set down on a clean surface.

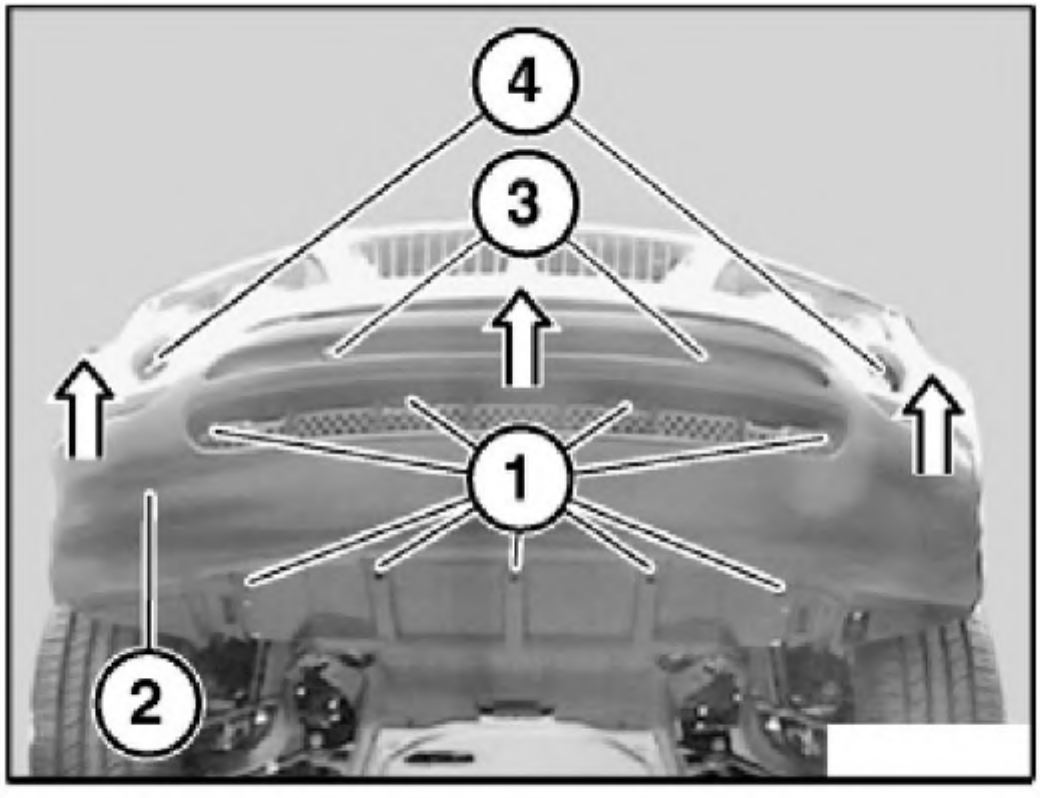
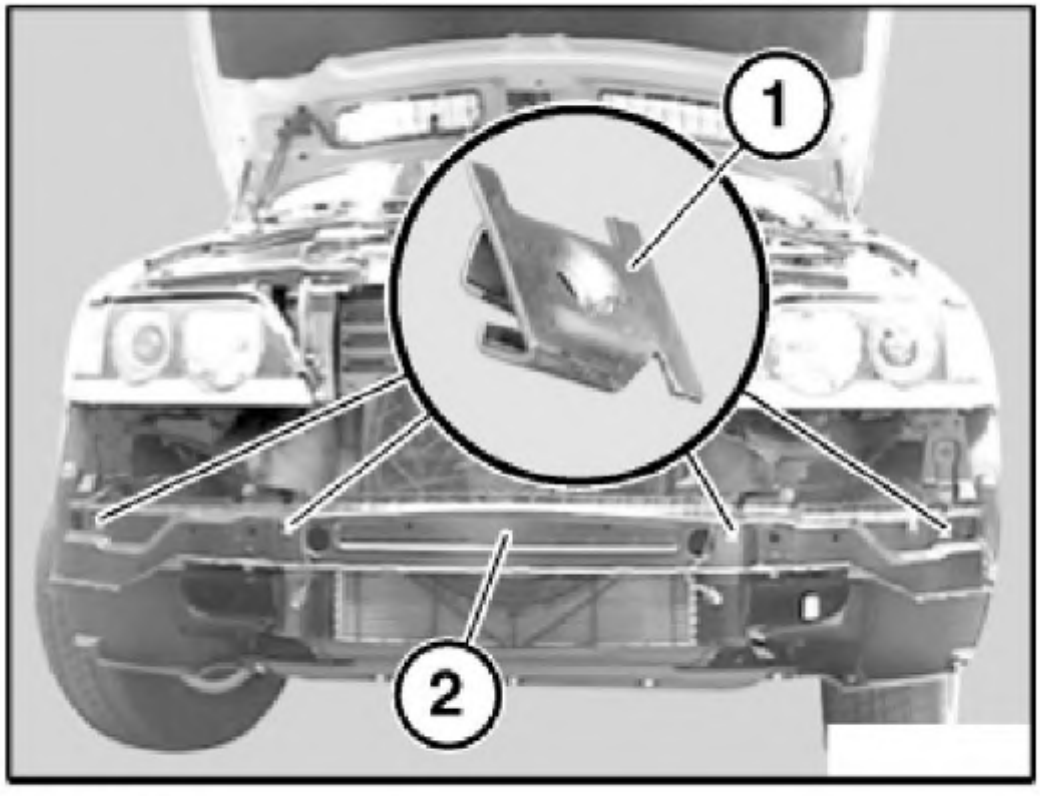


Fig. 16: Removing Bumper Trim
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

If necessary, replace faulty retainers (1) in carrier (2).



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Fig. 17: Replacing Faulty Retainers
Courtesy of BMW OF NORTH AMERICA, INC.

51 11 157 REPLACING FRONT BUMPER TRIM

Necessary preliminary tasks:

- Unscrew and remove license plate.
- Remove front bumper trim. See **51 11 156 Removing And Installing Front Bumper Trim** .
- Remove holder for number/license plate. See **51 11 158 Replacing Baseplate For License Plate** .
- Remove both fog lamp inserts (complete). See **63 17 060 REMOVING AND INSTALLING LEFT OR RIGHT FOG LIGHT** .
- If necessary, remove grill for bumper trim. See **51 11 180 Removing And Installing/Replacing Trim Grill For Bumper Trim** .

Remove metal nuts (1) from bumper trim (2).

Version with headlight cleaning system:

If necessary, remove jet nozzles (3).

If necessary, feed hose (4) out of holders on bumper trim (2) and remove.

Version with Park Distance Control:

If necessary, remove ultrasonic sensors.

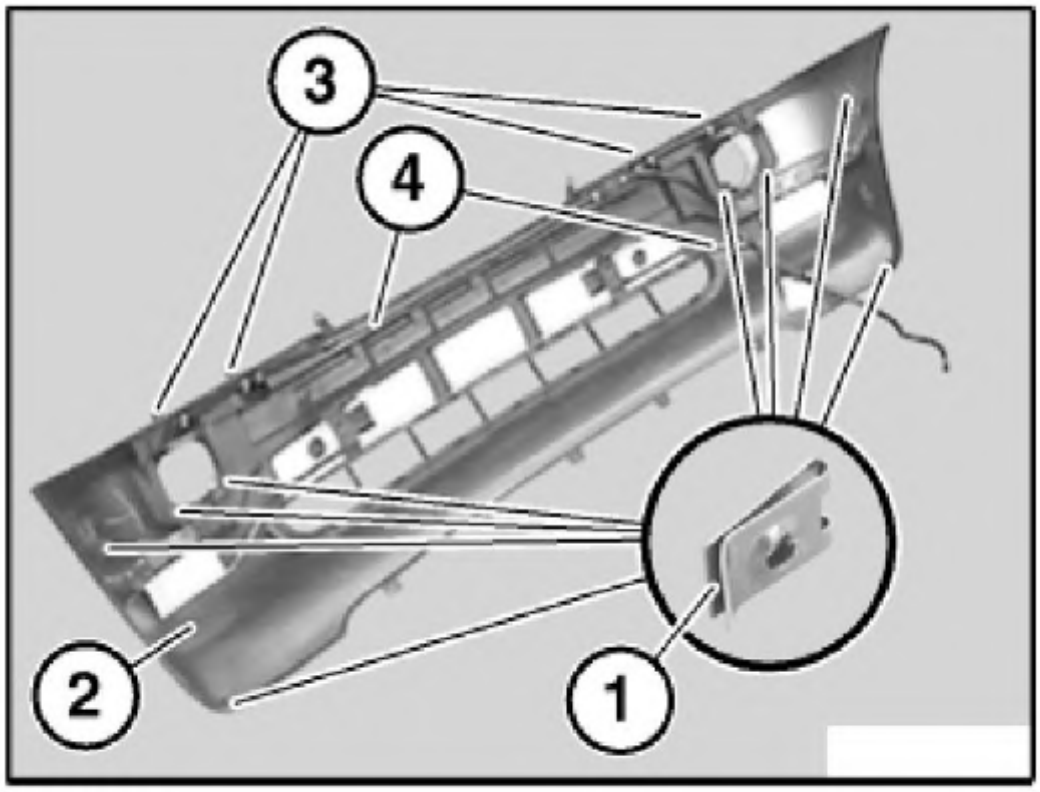
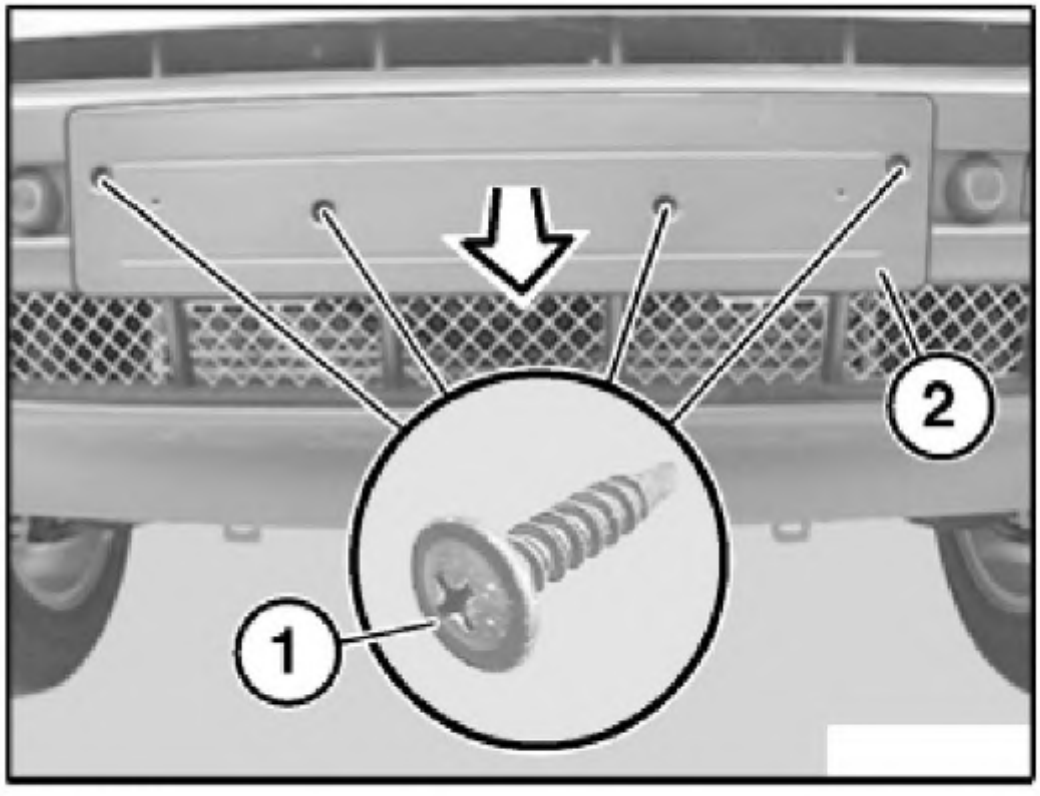


Fig. 18: Removing Metal Nuts From Bumper Trim
Courtesy of BMW OF NORTH AMERICA, INC.

51 11 158 REPLACING BASEPLATE FOR LICENSE PLATE

Unscrew and remove license plate.

Release screws (1) and remove baseplate (2) for license plate.



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Fig. 19: Releasing Screws And Removing Baseplate For License Plate
Courtesy of BMW OF NORTH AMERICA, INC.

51 11 180 REMOVING AND INSTALLING/REPLACING TRIM GRILL FOR BUMPER TRIM (UP TO 10/03)

Necessary preliminary tasks:

- Remove front bumper trim.

Lever out rib (1) from fixture (2) and unhook grill (3) to right/rear.

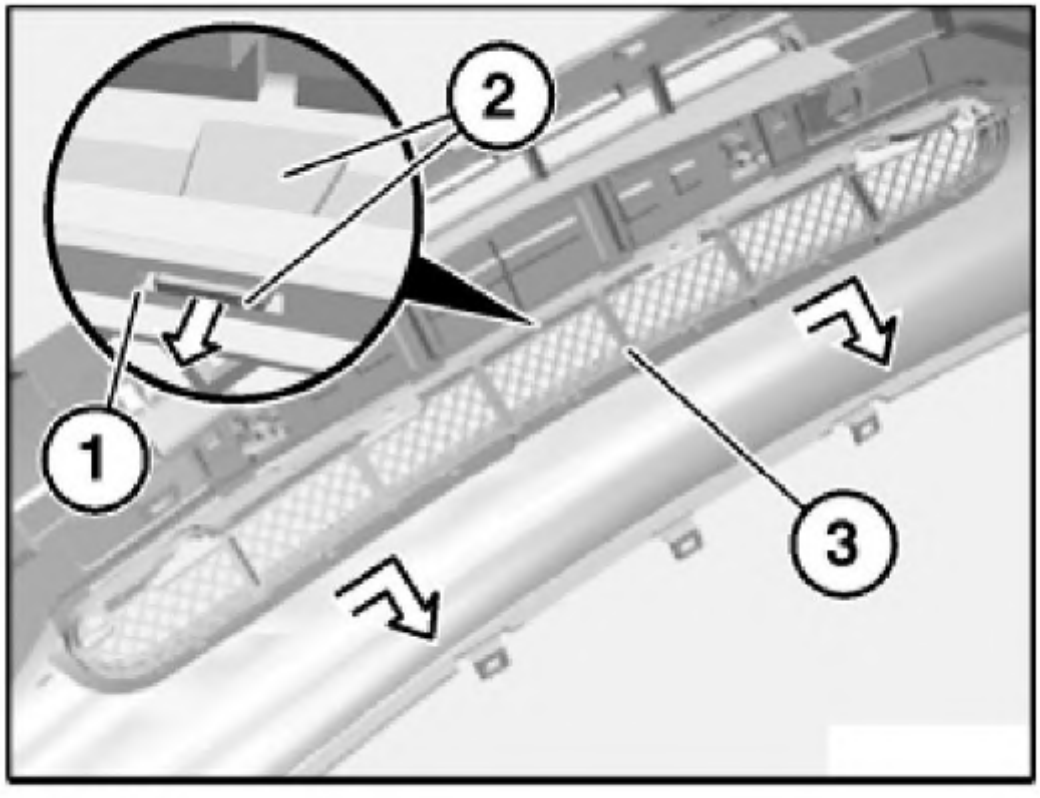


Fig. 20: Removing Front Bumper Trim
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Hooks (1) of trim (2) must not be damaged.

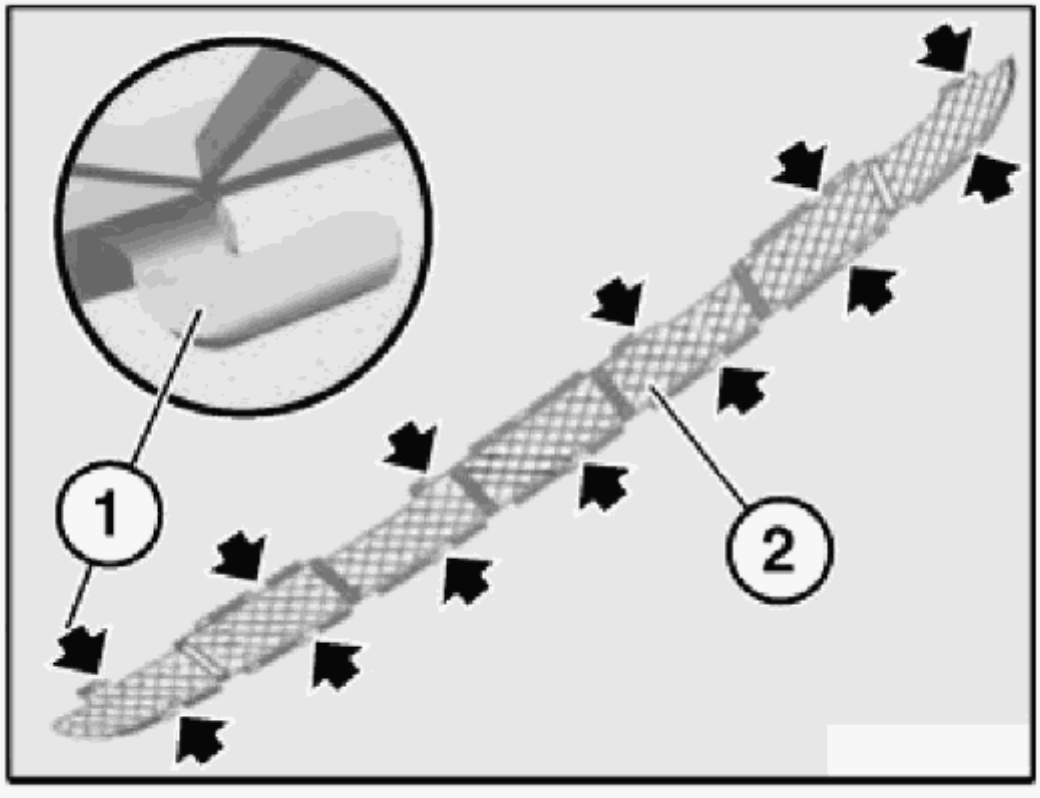


Fig. 21: Checking Hooks Of Trim
Courtesy of BMW OF NORTH AMERICA, INC.

51 11 701 REPLACING LEFT OR RIGHT BRACKET FOR FRONT BUMPER

Necessary preliminary tasks:

Bumper trim removed.

- If necessary, remove front bumper trim

Version up to 10/2003:

Compress catches (1) and detach bracket (2) towards bottom.

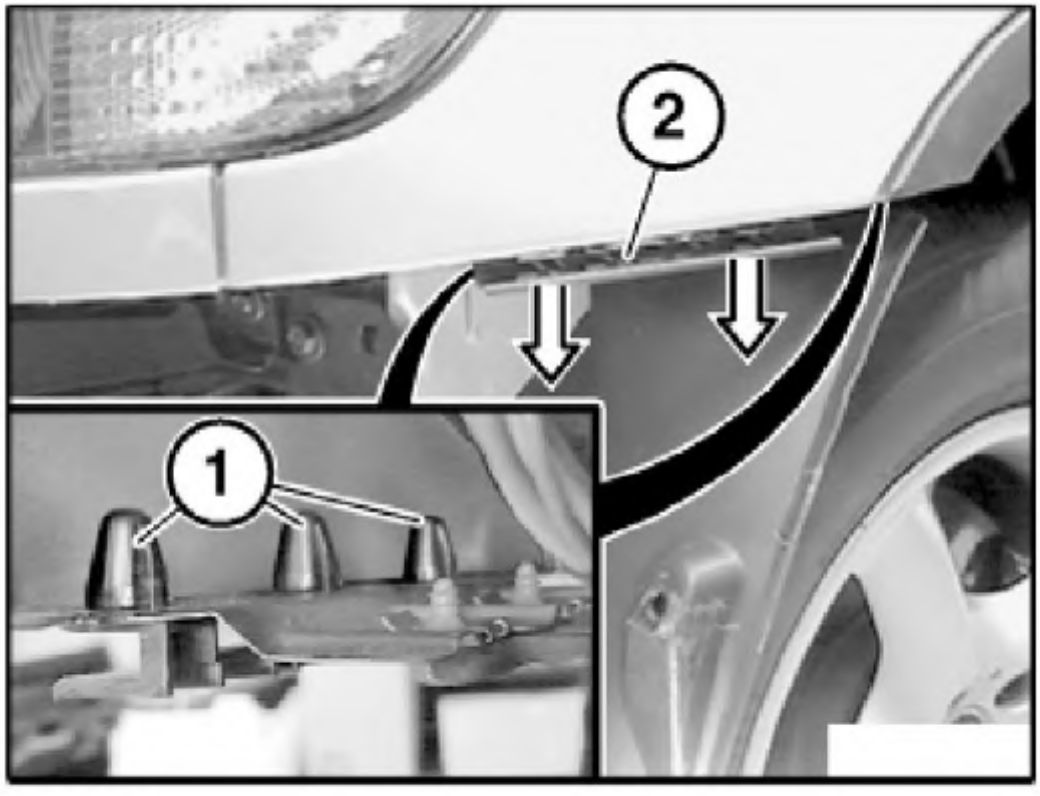
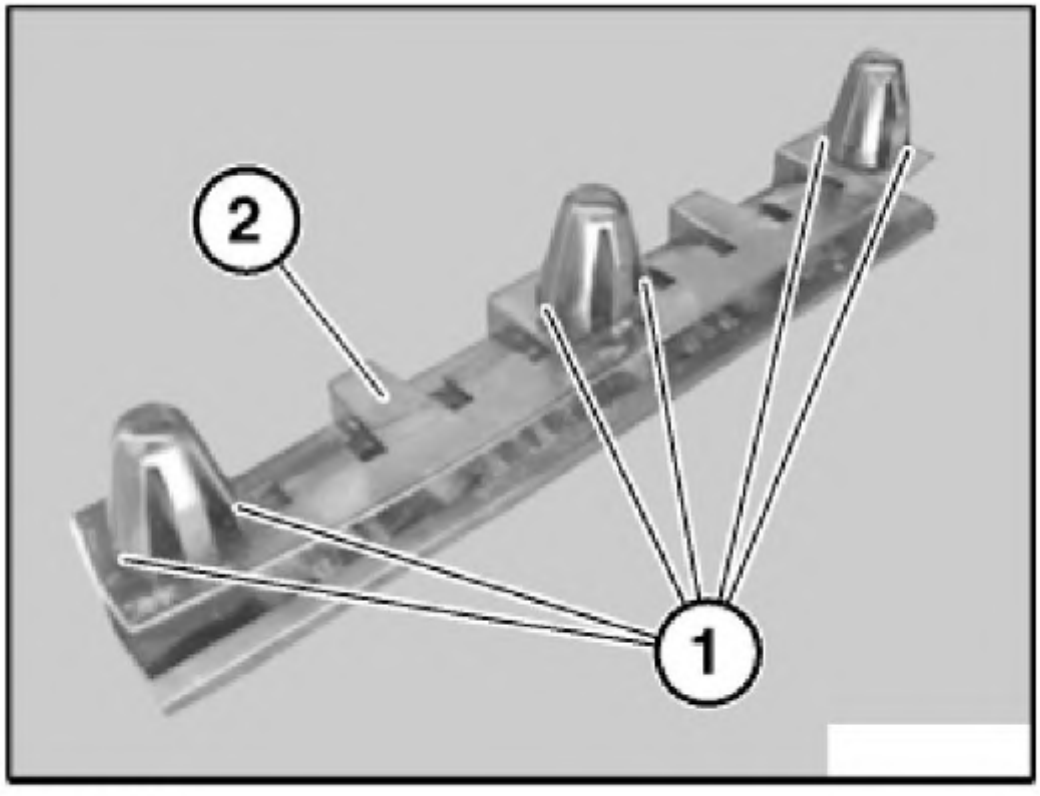


Fig. 22: Detaching Bracket Towards Bottom
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Catches (1) on bracket (2) must not be damaged.



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Fig. 23: Checking Catches On Bracket
Courtesy of BMW OF NORTH AMERICA, INC.

Version from 10/2003:

Release screws (1) and detach metal nuts (2).

Compress catches (3) and detach bracket (4) towards bottom.

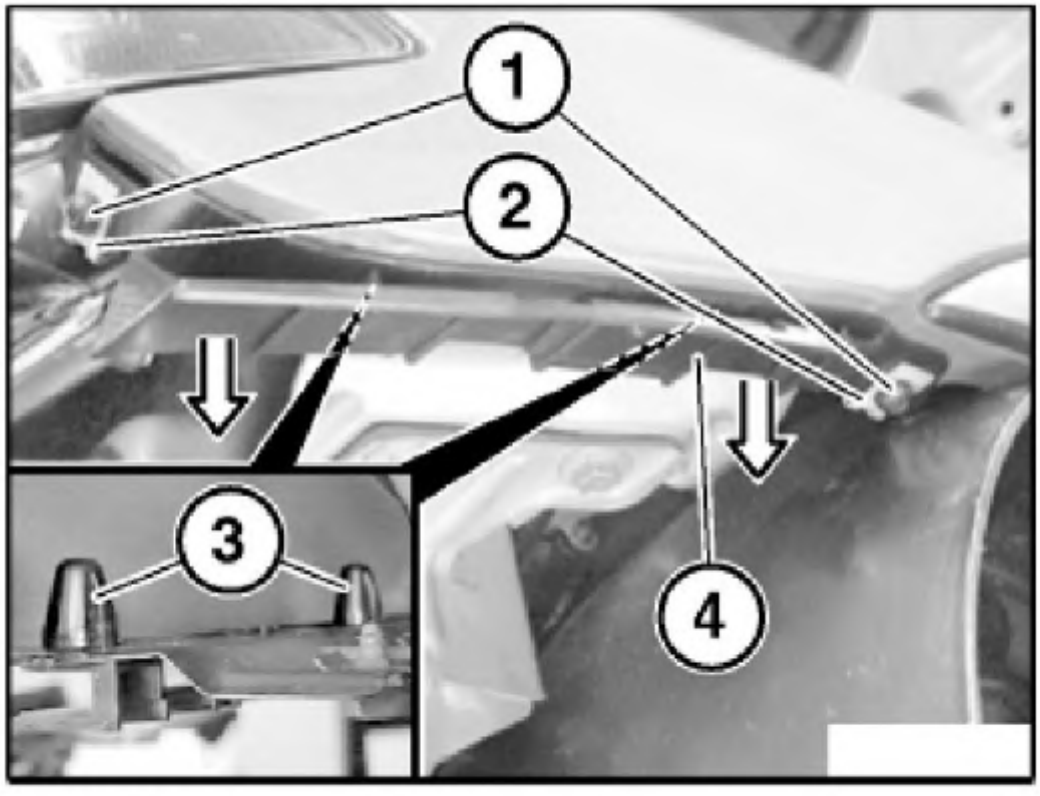


Fig. 24: Detaching Bracket Towards Bottom
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Catches (1 and 2) on bracket (3) must not be damaged.

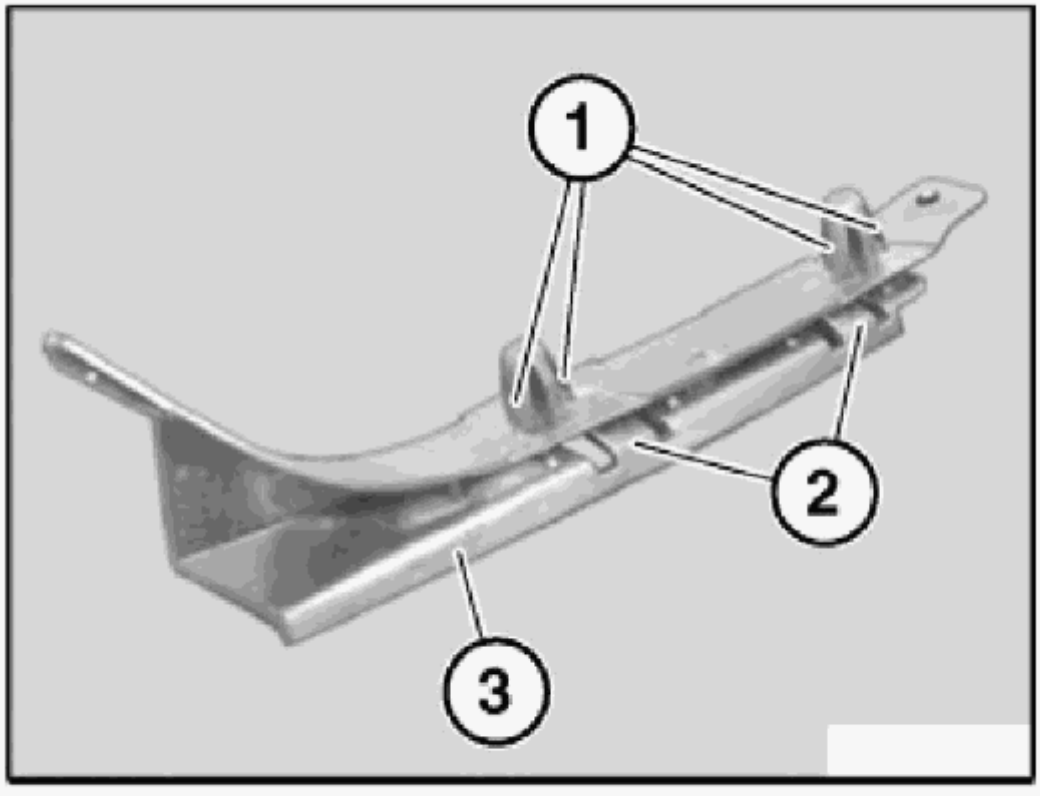


Fig. 25: Checking Catches On Bracket
Courtesy of BMW OF NORTH AMERICA, INC.

REAR BUMPER

51 12 000 REMOVING AND INSTALLING COMPLETE REAR BUMPER

Attach fabric adhesive tape (1) to inner tail pipes (2) (risk of damage).

Pull tail pipes (2) downwards and release screw with commercially available Torx T55 and ratchet.

Installation:

Tightening torque, see 51 12 2AZ in **BODY EQUIPMENT - TIGHTENING TORQUES** .

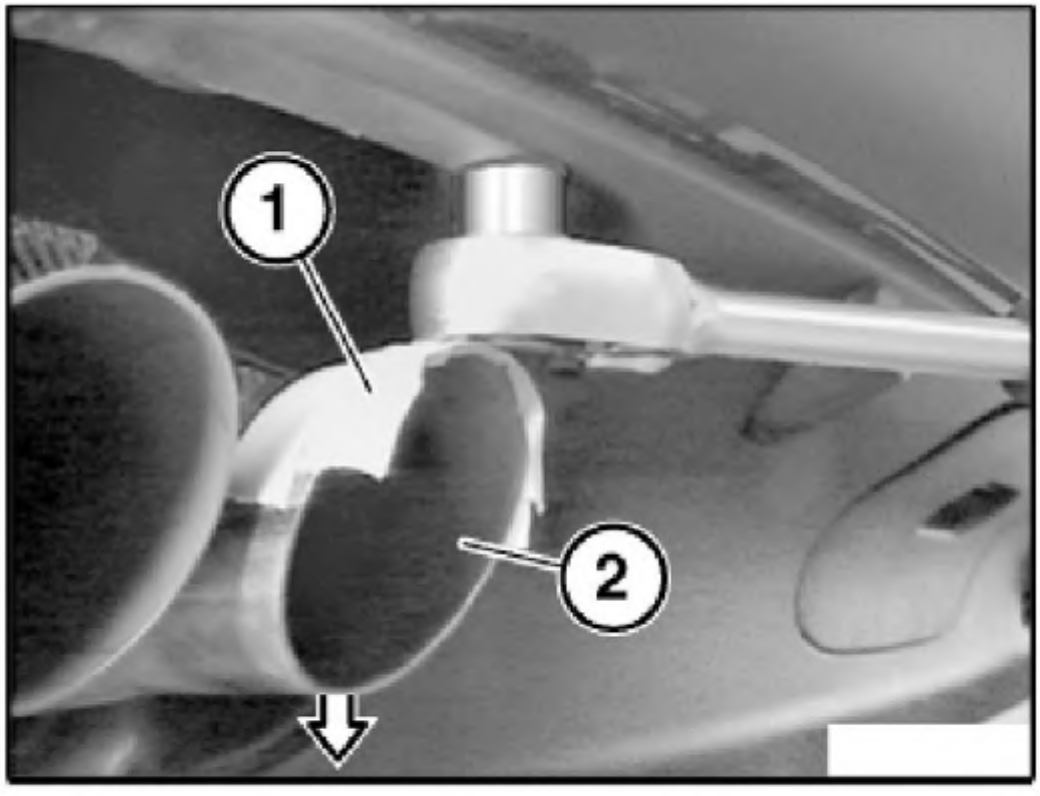


Fig. 26: Attaching Fabric Adhesive Tape To Inner Tail Pipes
Courtesy of BMW OF NORTH AMERICA, INC.

Release left/right screws (1).

Version without Park Distance Control (PDC):

Open rear lids.

Lever out trim (2) on wheel arch on left/right and pull off bumper (3).

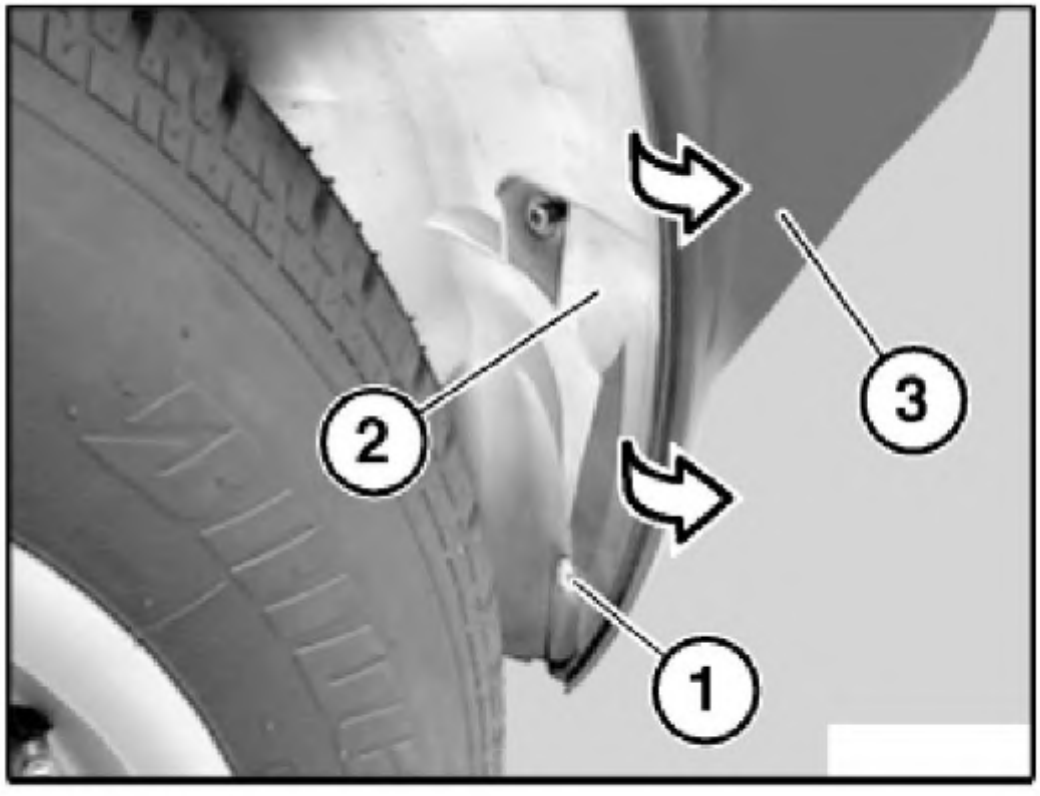


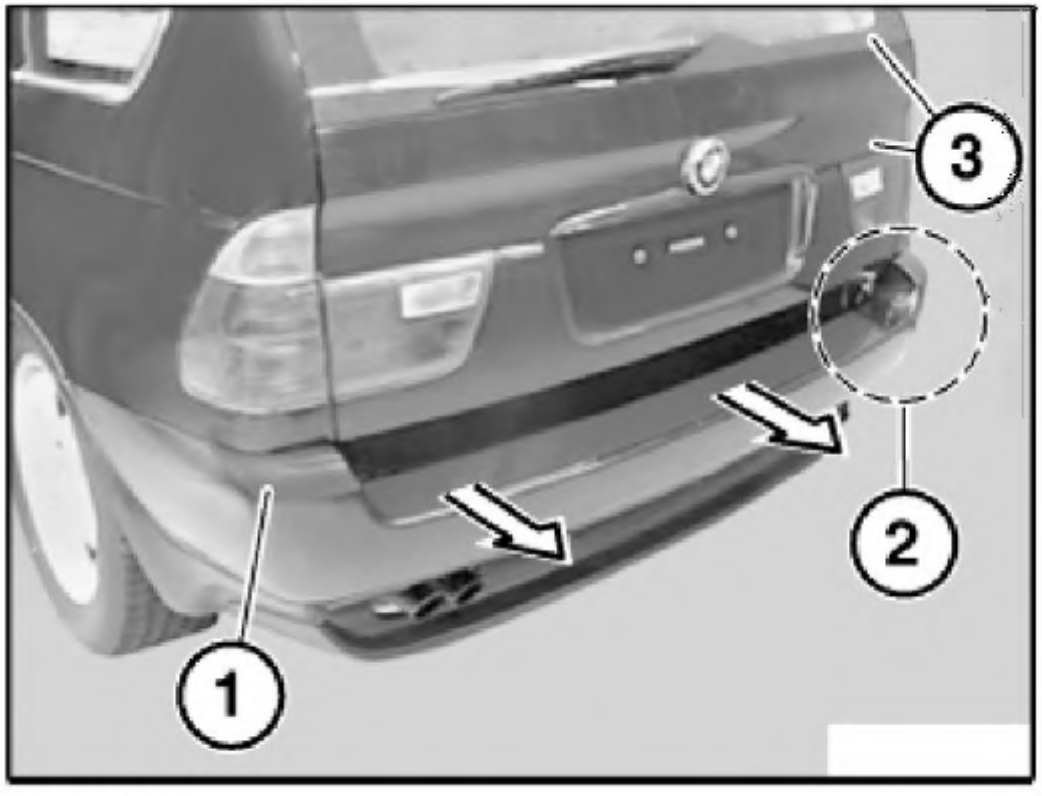
Fig. 27: Levering Out Trim On Wheel Arch On Left/Right And Pull Off Bumper
Courtesy of BMW OF NORTH AMERICA, INC.

Version with Park Distance Control (PDC):

Open rear lids (3) for detaching and then close again.

Pull back bumper (1) in right area (2) until plug connection for PDC is accessible.

In right area (2), disconnect plug connection and unclip cable holders.



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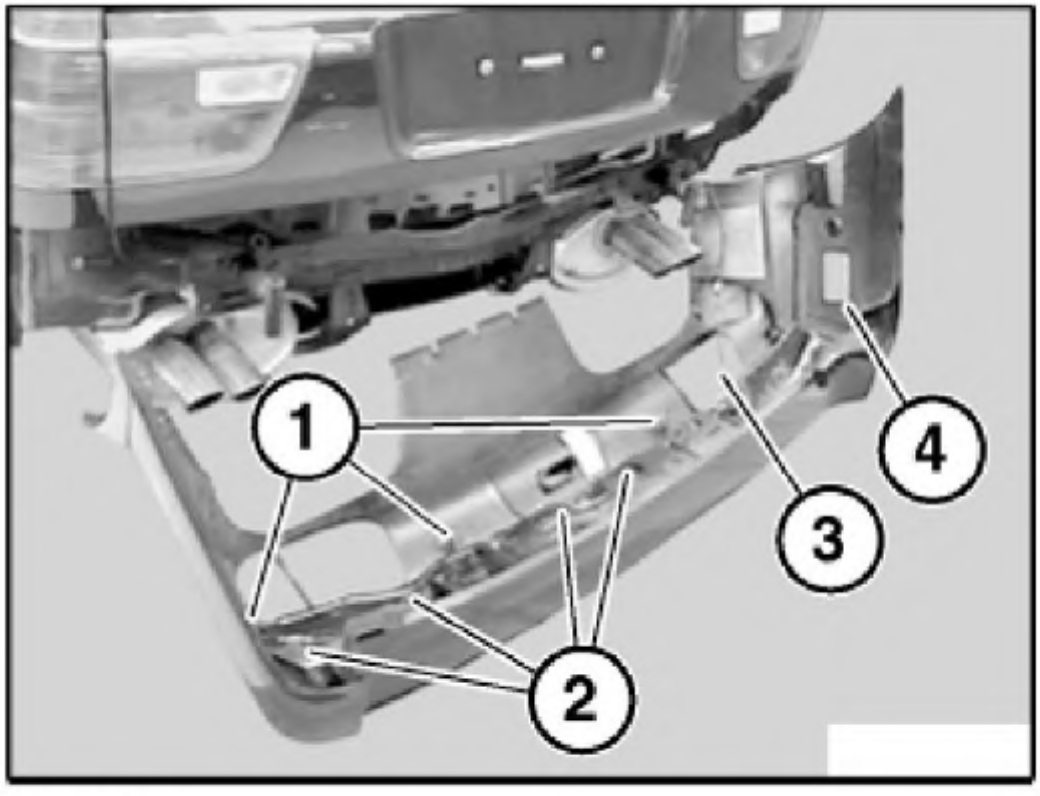
Fig. 28: Disconnecting Plug Connection And Unclip Cable Holders
Courtesy of BMW OF NORTH AMERICA, INC.

Version with Park Distance Control (PDC):

Disconnect remaining plug connections (1).

Unclip all cable holders (2).

Feed out cable (3) from bumper (4) and set down on a clean surface.

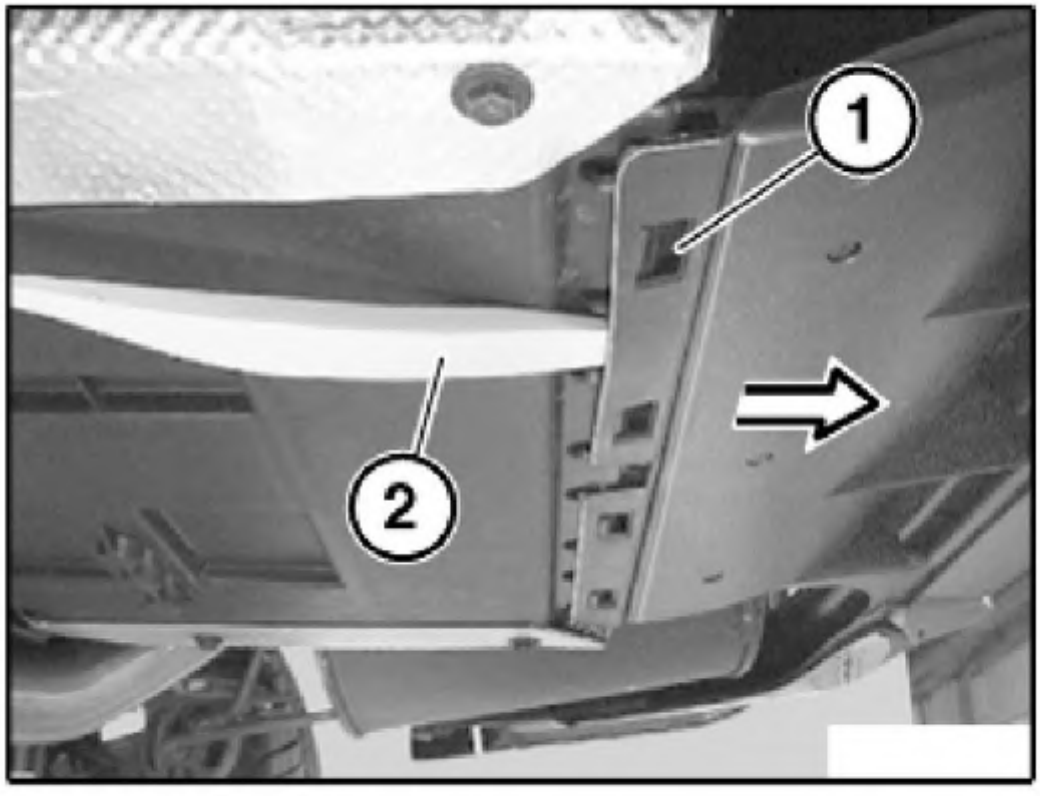


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Fig. 29: Disconnecting Remaining Plug Connections
Courtesy of BMW OF NORTH AMERICA, INC.

51 12 000 REMOVING AND INSTALLING COMPLETE REAR BUMPER (HP)

Unclip cover (1) with assembly wedge (2) and unhook in direction of arrow.



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Fig. 30: Unclipping Cover With Assembly Wedge And Unhook
Courtesy of BMW OF NORTH AMERICA, INC.

Release screws (1) on left and right.

Lift out wheel arch trim (2) on left and right.

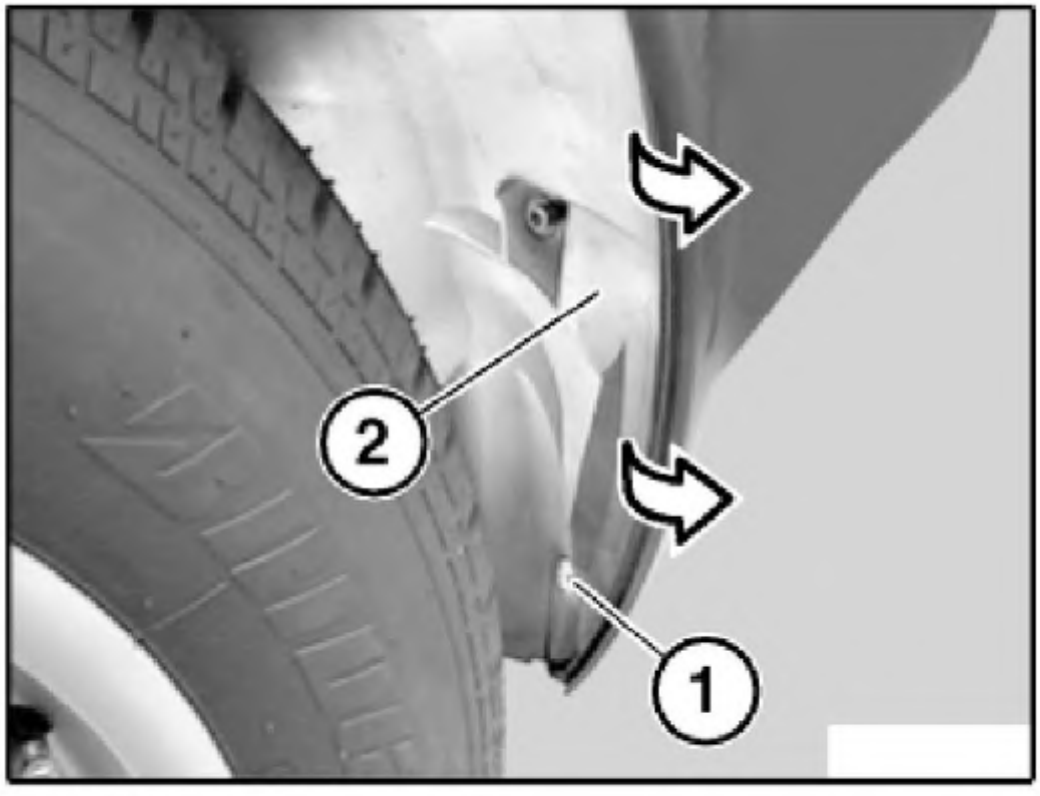


Fig. 31: Lifting Out Wheel Arch Trim On Left And Right
Courtesy of BMW OF NORTH AMERICA, INC.

Release nuts (1) on left and right.

Installation:

Observe tightening torque, see 51 12 3AZ in **BODY EQUIPMENT - TIGHTENING TORQUES** .

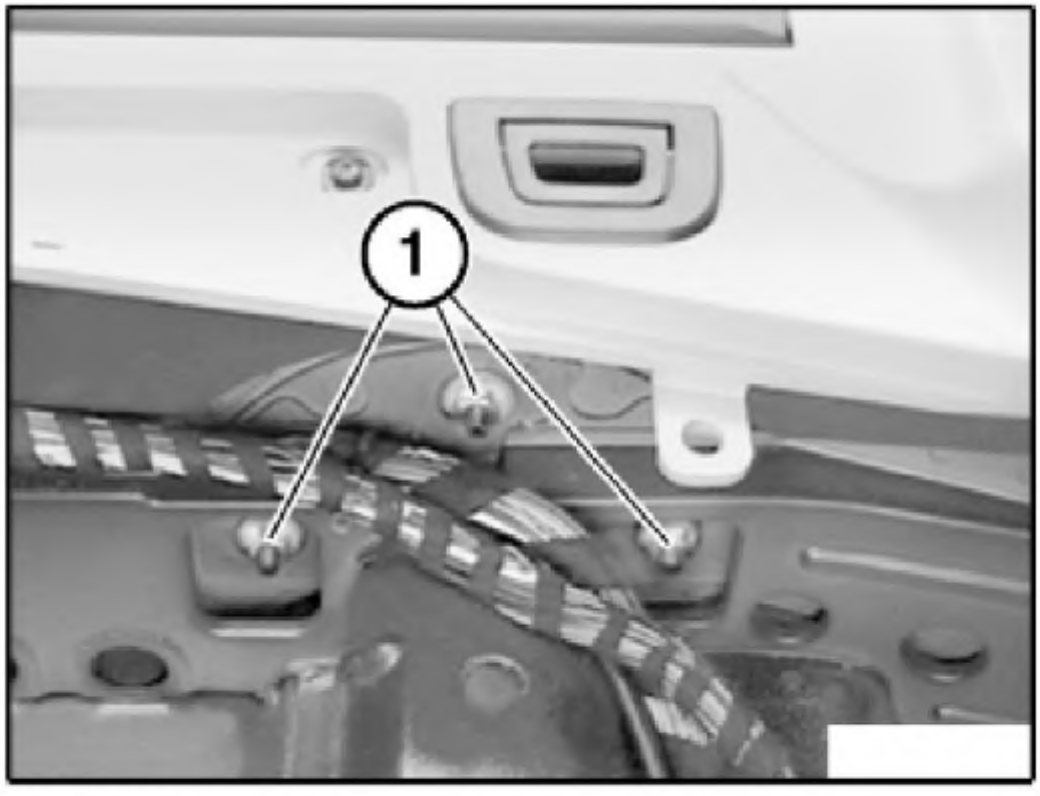


Fig. 32: Releasing Nuts On Left And Right
Courtesy of BMW OF NORTH AMERICA, INC.

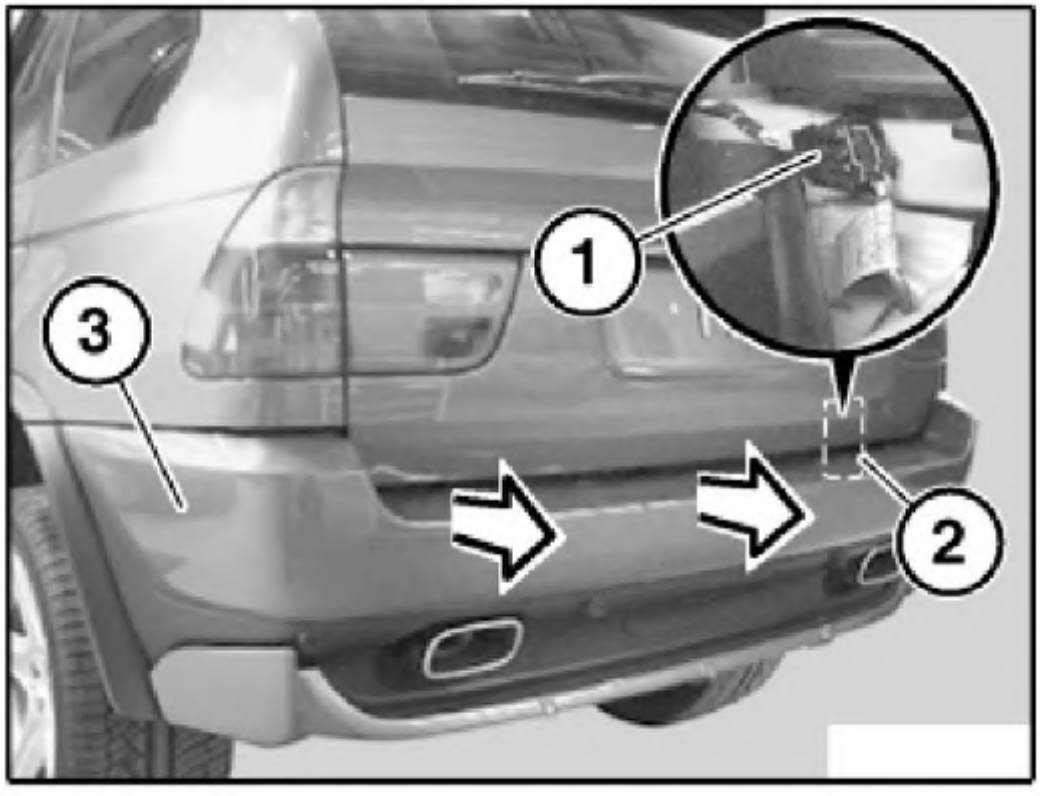
Open rear lids.

Version with PDC option:

Disconnect plug connection (1) in area (2).

Pull off bumper (3) slightly towards rear, feed out PDC wiring harness in area (2).

Remove bumper (3) in direction of arrow.



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Fig. 33: Disconnecting Plug Connection
Courtesy of BMW OF NORTH AMERICA, INC.

51 12 001 REPLACING REAR BUMPER

Replacing Rear Bumper Center Section (Carrier) (51 12 011):

Remove complete rear bumper. See **51 12 000 Removing And Installing Complete Rear Bumper** .

Release expansion rivets (1).

Remove cover (2) on left/right.

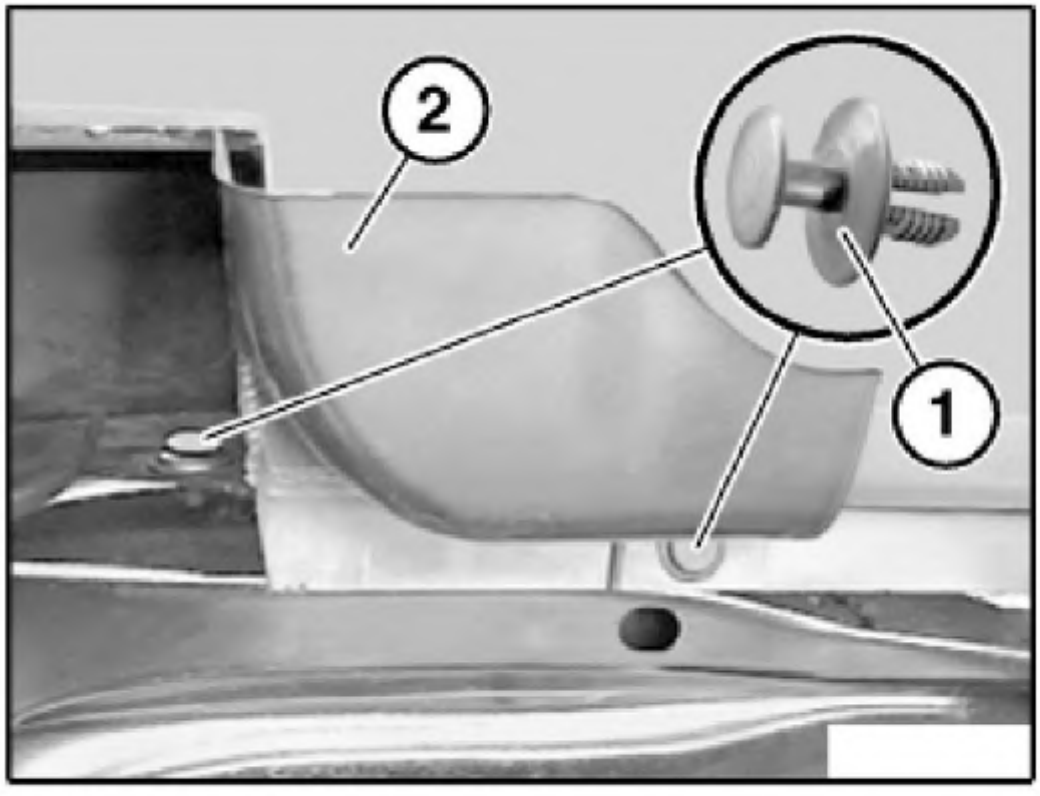
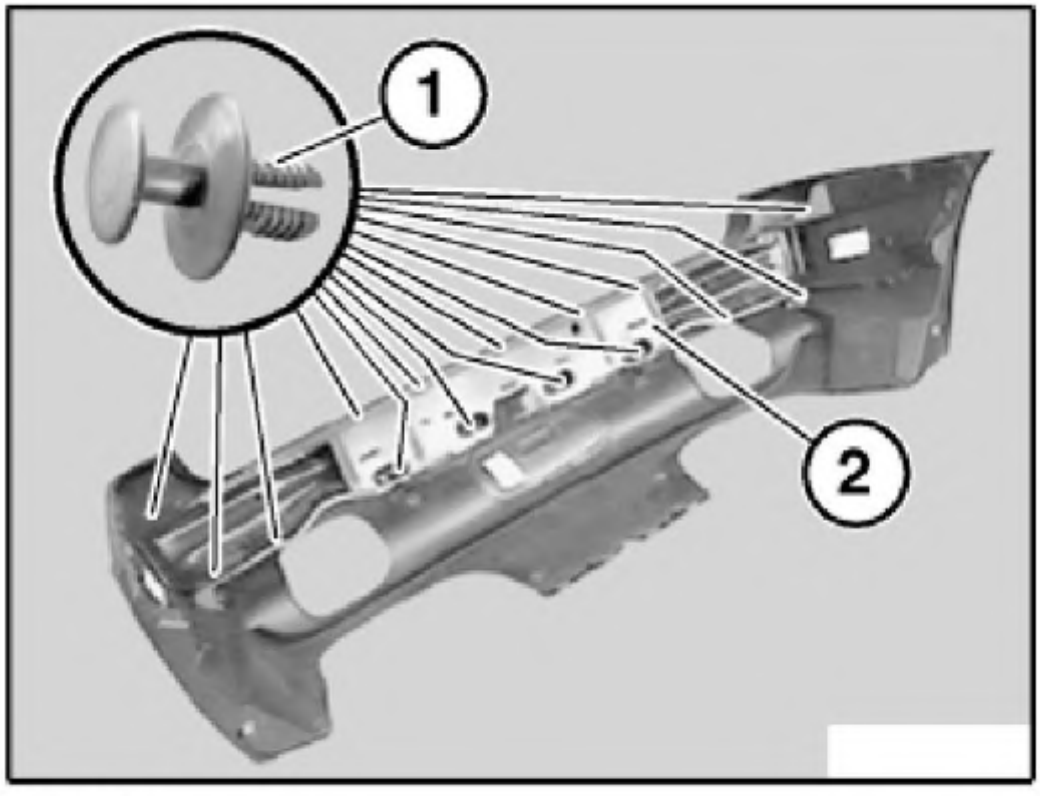


Fig. 34: Releasing Expansion Rivets
Courtesy of BMW OF NORTH AMERICA, INC.

Release expansion rivets (1) and remove bumper center section (2) (carrier).



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Fig. 35: Releasing Expansion Rivets And Removing Bumper Center Section
Courtesy of BMW OF NORTH AMERICA, INC.

NOTE: The work for "Replacing rear bumper center section (carrier) (51 12 011)" ends here.

Replacing Rear Bumper Trim (51 12 157) And Replacing Rear Bumper (51 12 001):

Unclip flap (1) on handle from bumper (2).

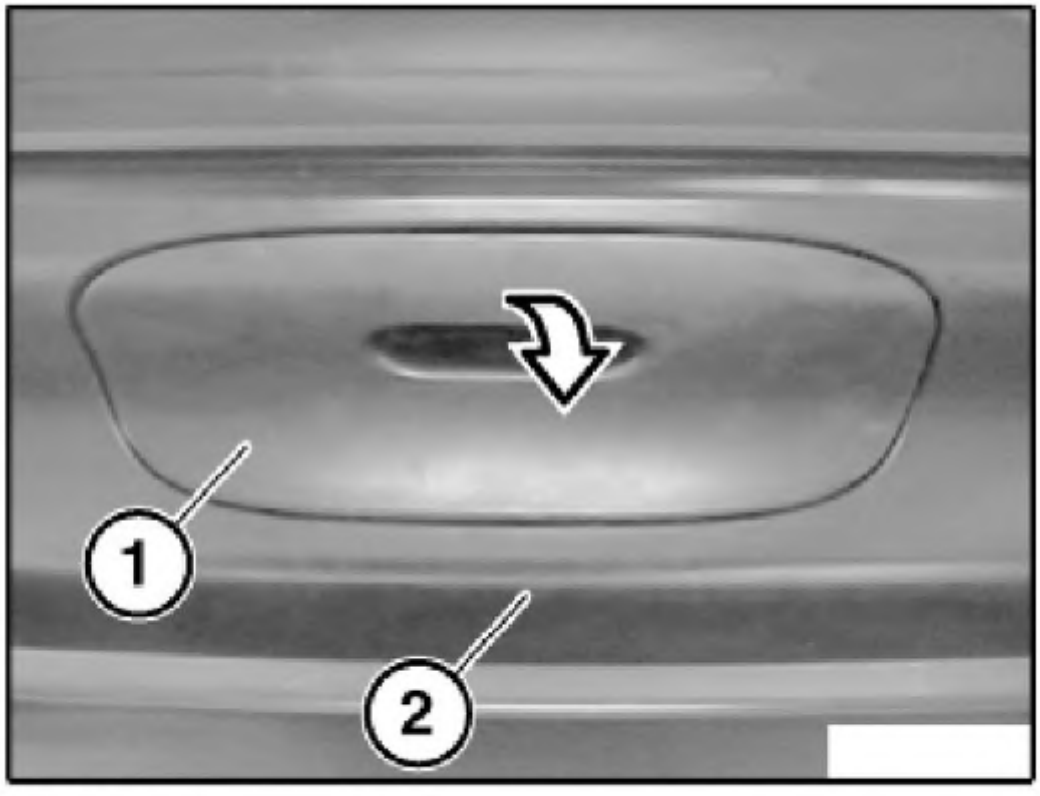


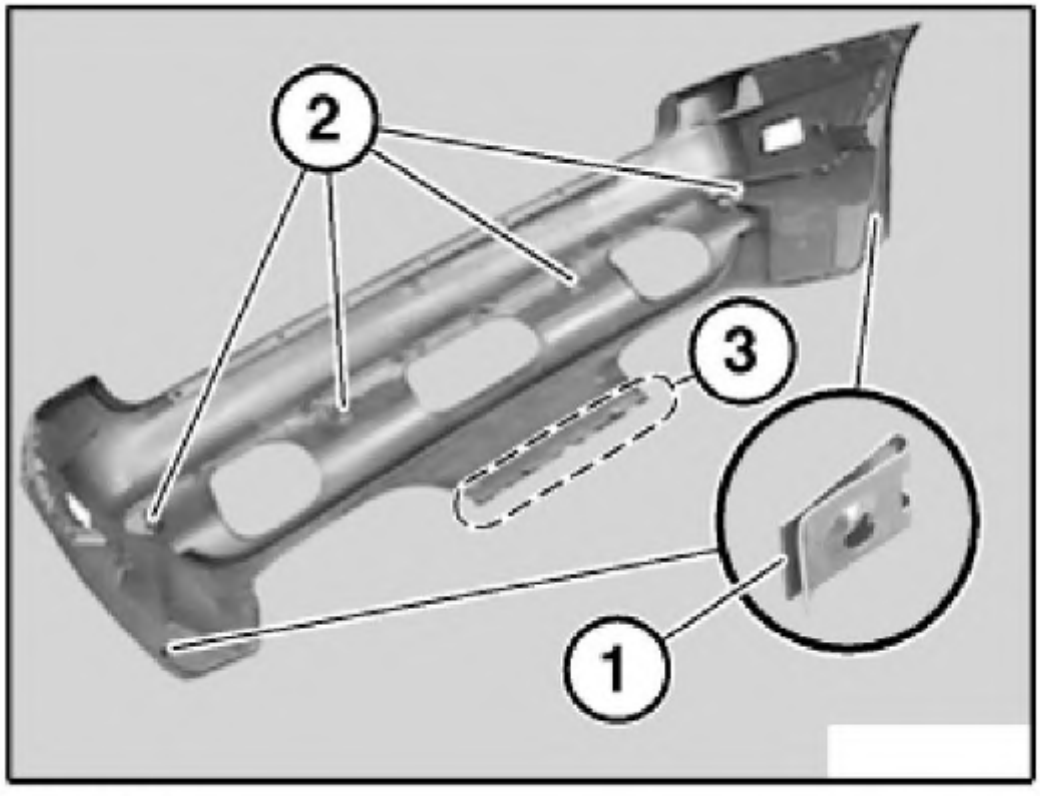
Fig. 36: Unclipping Flap On Handle From Bumper
Courtesy of BMW OF NORTH AMERICA, INC.

Remove speed nuts (1).

Version with Park Distance Control (PDC):

If necessary, remove all rear ultrasonic transducers.

Mounts must not be damaged in area (2).



G03252699

Fig. 37: Removing Speed Nuts
Courtesy of BMW OF NORTH AMERICA, INC.

51 12 150 REMOVING AND INSTALLING/REPLACING TRIM ON ATTACHMENT FOR REAR BUMPER TRIM (HP)

See **51 12 157 Replacing Rear Bumper Trim (HP)** .

51 12 154 REMOVING AND INSTALLING/REPLACING ATTACHMENT FOR REAR BUMPER TRIM (HP)

See **51 12 157 Replacing Rear Bumper Trim (HP)** .

51 12 157 REPLACING REAR BUMPER TRIM (HP)

Release spring clips (1) on left and right.

Release retaining element (2) on left and right and remove covers.

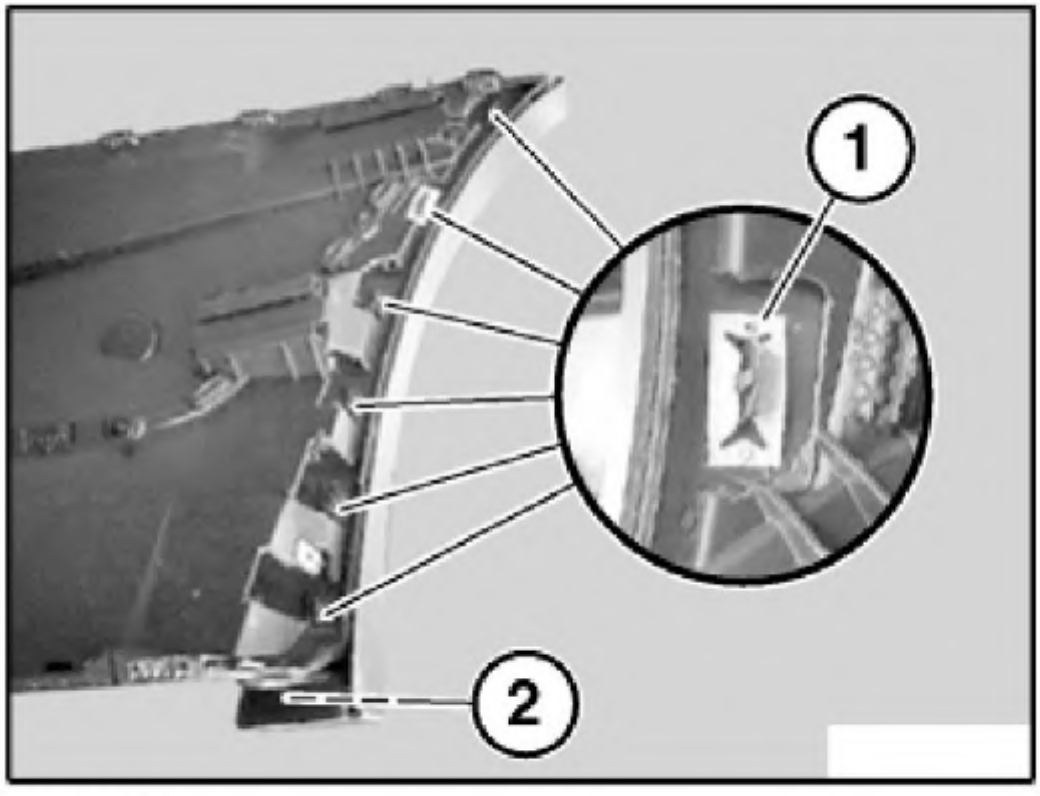
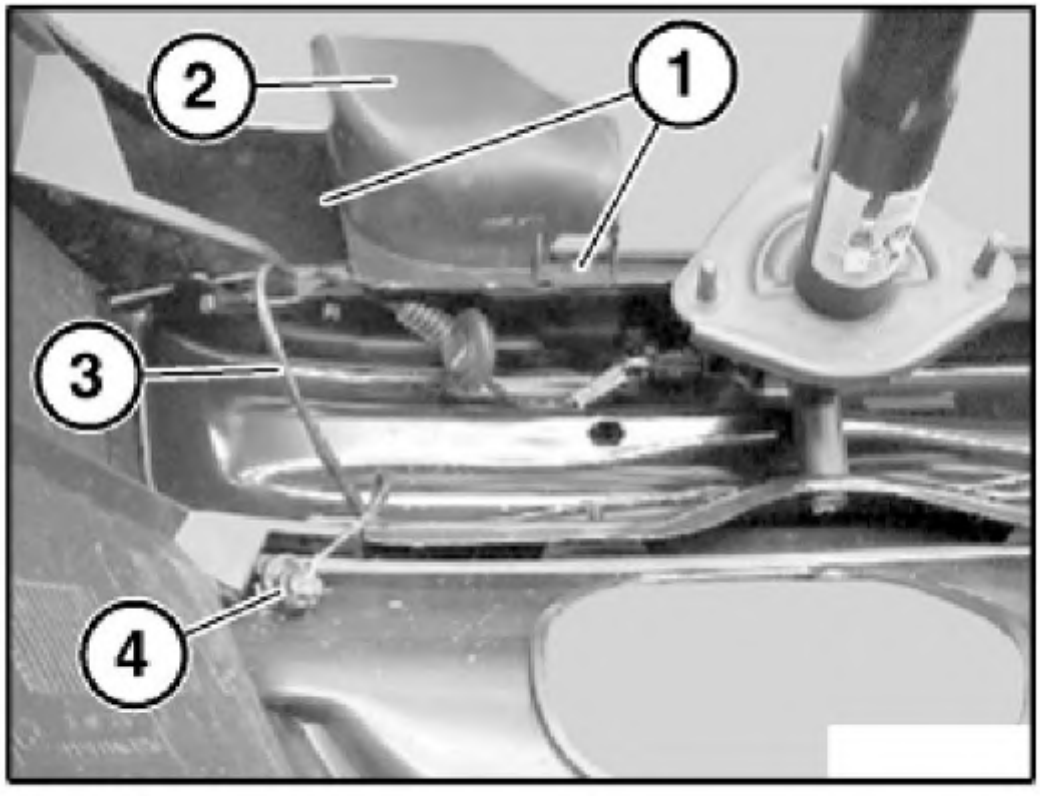


Fig. 38: Releasing Retaining Element On Left And Right And Removing Covers
Courtesy of BMW OF NORTH AMERICA, INC.

Release expansion rivets (1) on left and right and remove cover (2) on left and right.

Version with PDC option:

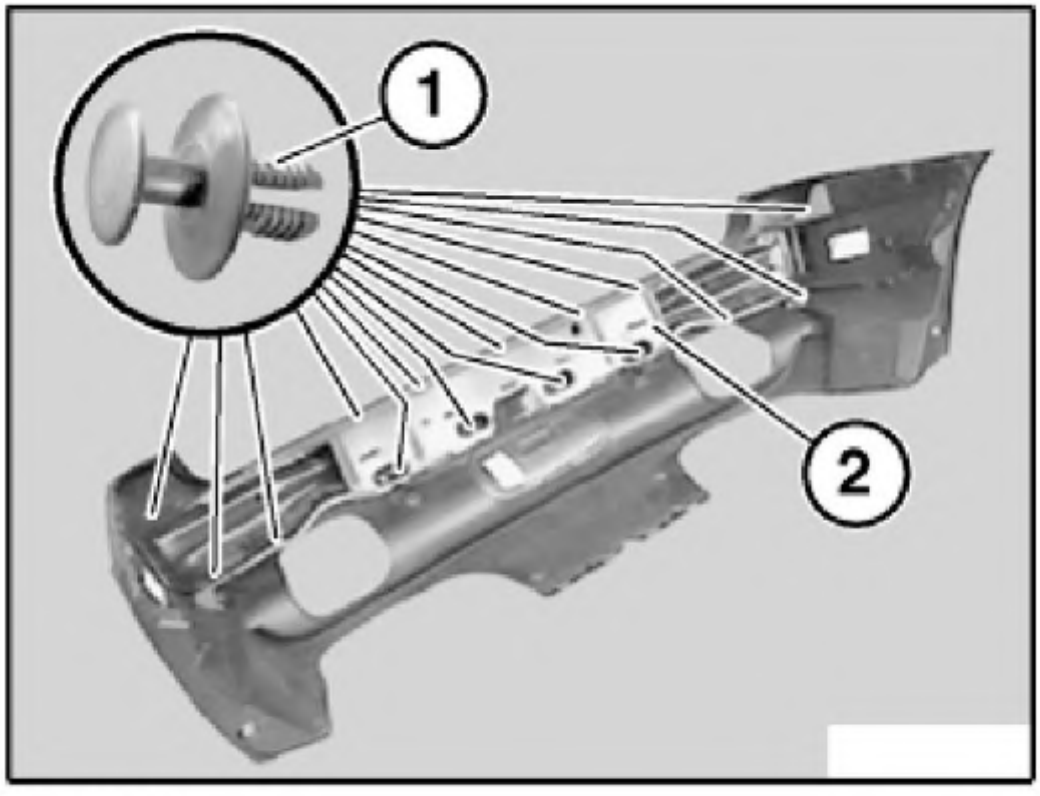
Remove wiring harness (3) and all PDC sensors (4).



G03252701

Fig. 39: Removing Wiring Harness And All PDC Sensors
Courtesy of BMW OF NORTH AMERICA, INC.

Release expansion rivets (1) and remove center section of bumper (2).



G03252702

Fig. 40: Removing Center Section Of Bumper
Courtesy of BMW OF NORTH AMERICA, INC.

Unclip cover (1) on left and right with assembly wedge (2) and remove in direction of arrow.

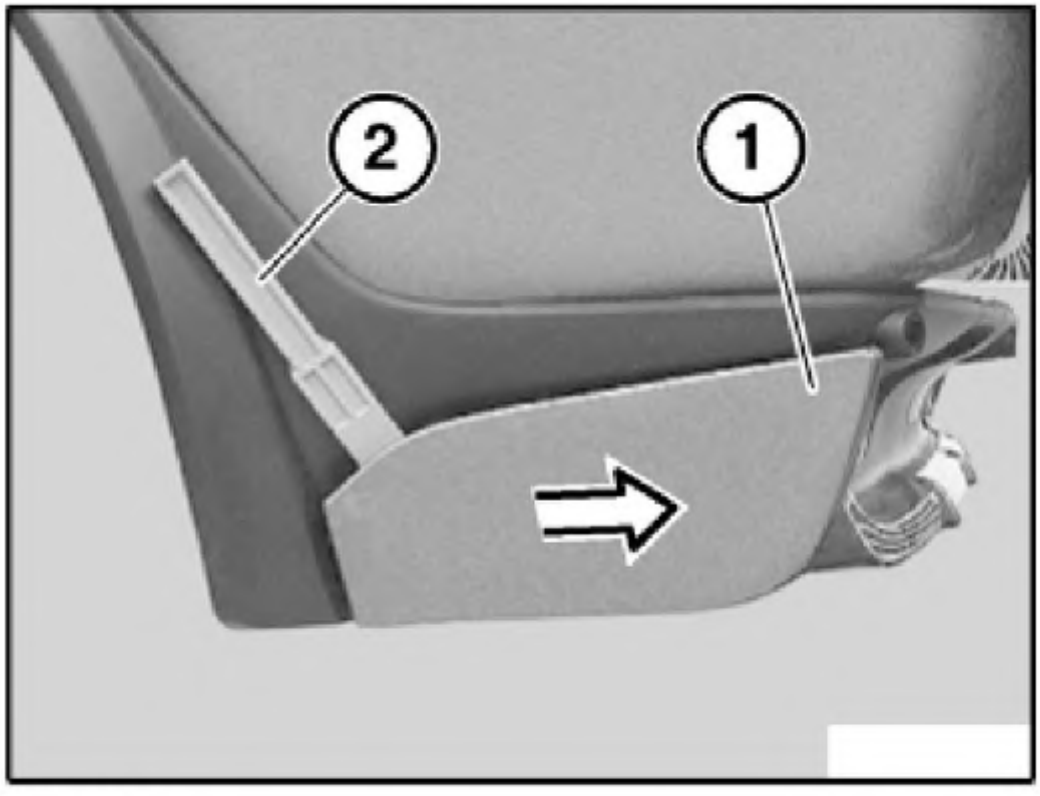


Fig. 41: Unclipping Cover On Left And Right With Assembly Wedge
Courtesy of BMW OF NORTH AMERICA, INC.

Release spring clips (1).

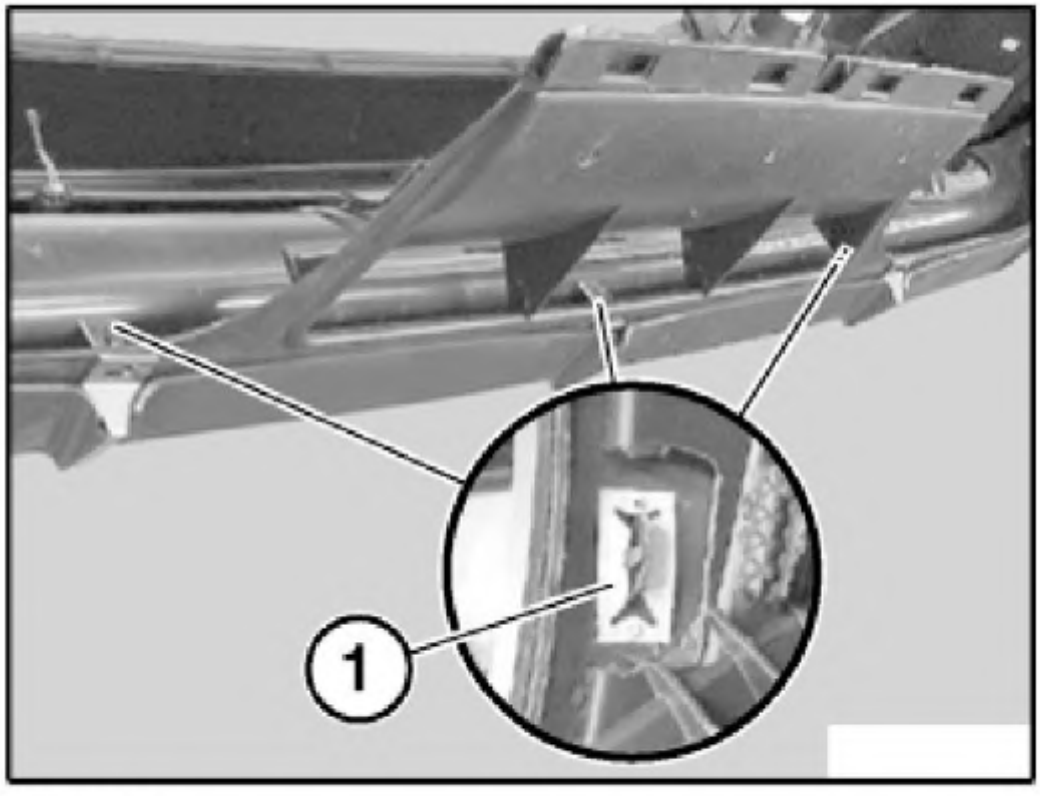


Fig. 42: Releasing Spring Clips
Courtesy of BMW OF NORTH AMERICA, INC.

Remove cover (1).

Release retaining elements (2) on left and right and remove bumper trim lower section (3).

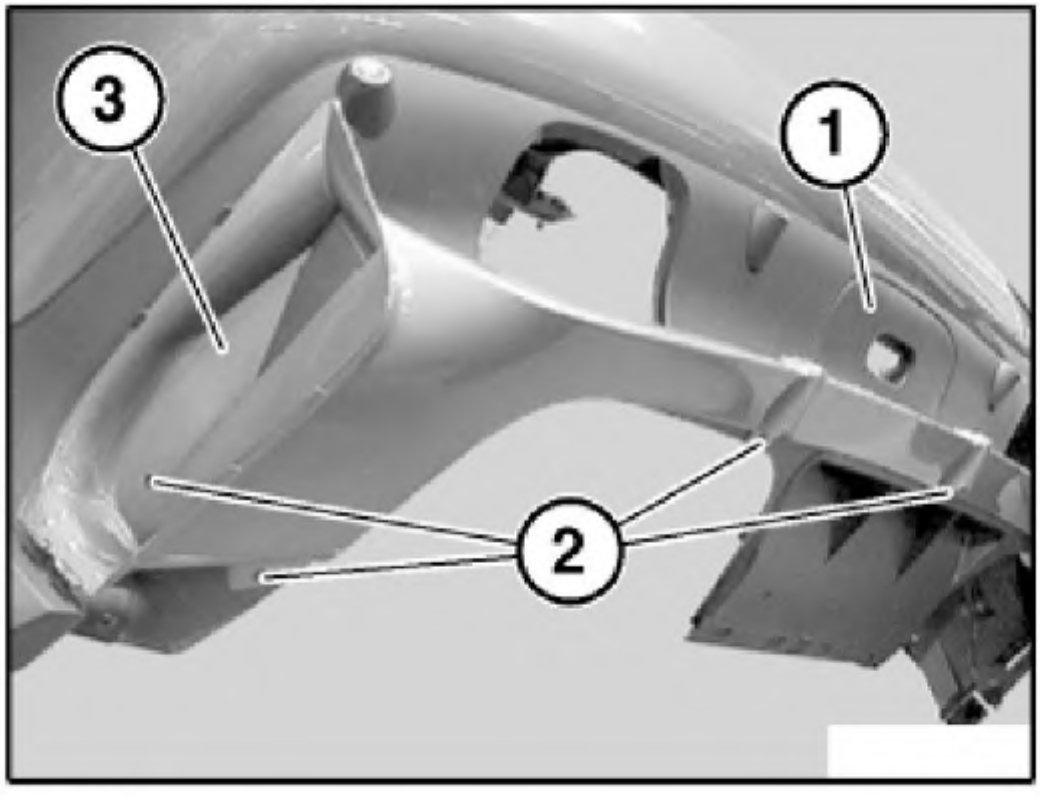


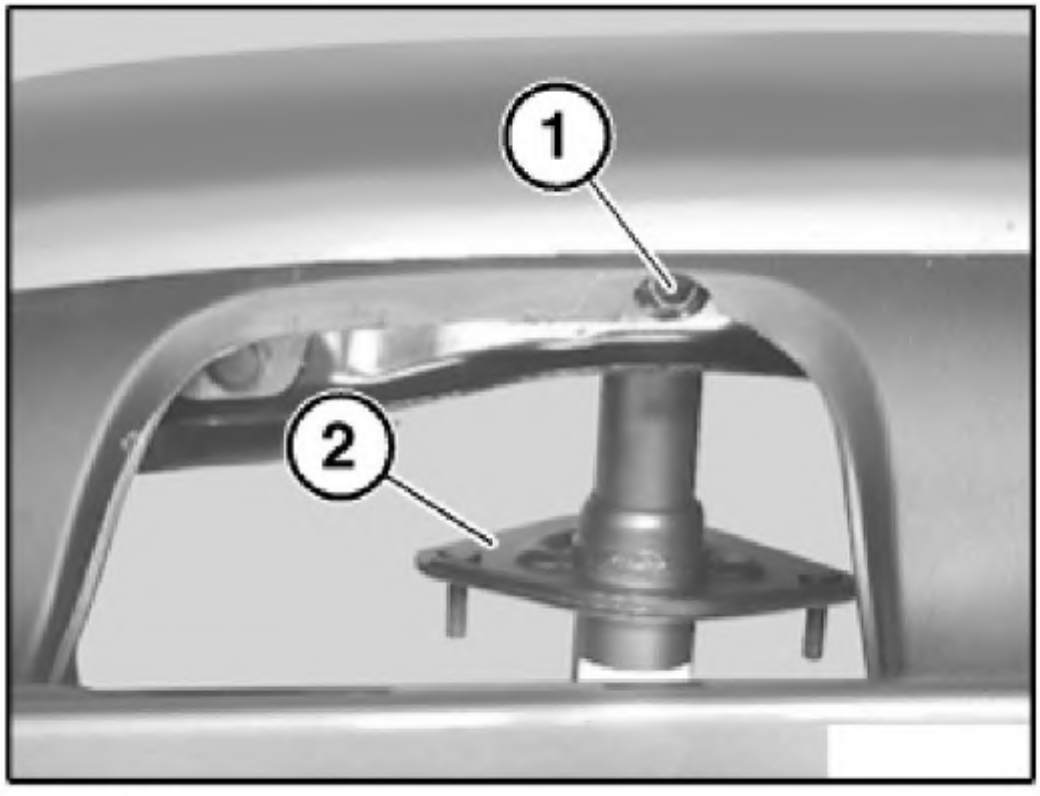
Fig. 43: Removing Bumper Trim Lower Section
Courtesy of BMW OF NORTH AMERICA, INC.

51 12 742 REPLACING A SHOCK ABSORBER FOR REAR BUMPER (HP)

Release screw (1) and remove shock absorber (2).

Installation:

Observe tightening torque, see 51 12 2AZ in **BODY EQUIPMENT - TIGHTENING TORQUES** .



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Fig. 44: Removing Shock Absorber
Courtesy of BMW OF NORTH AMERICA, INC.

51 12 742 REPLACING ONE IMPACT ABSORBER FOR REAR BUMPER

(bumper removed)

If necessary, remove rear bumper. See **51 12 001 Replacing Rear Bumper** .

Remove support on side member, refer to Removing trim for tail panel, top. **51 46 050 Removing And Installing/Replacing Finisher For Top Of Rear Apron**

Release nuts (1) on inside and remove shock absorber.

Installation:

Tightening torque, see 51 12 3AZ in **BODY EQUIPMENT - TIGHTENING TORQUES** .

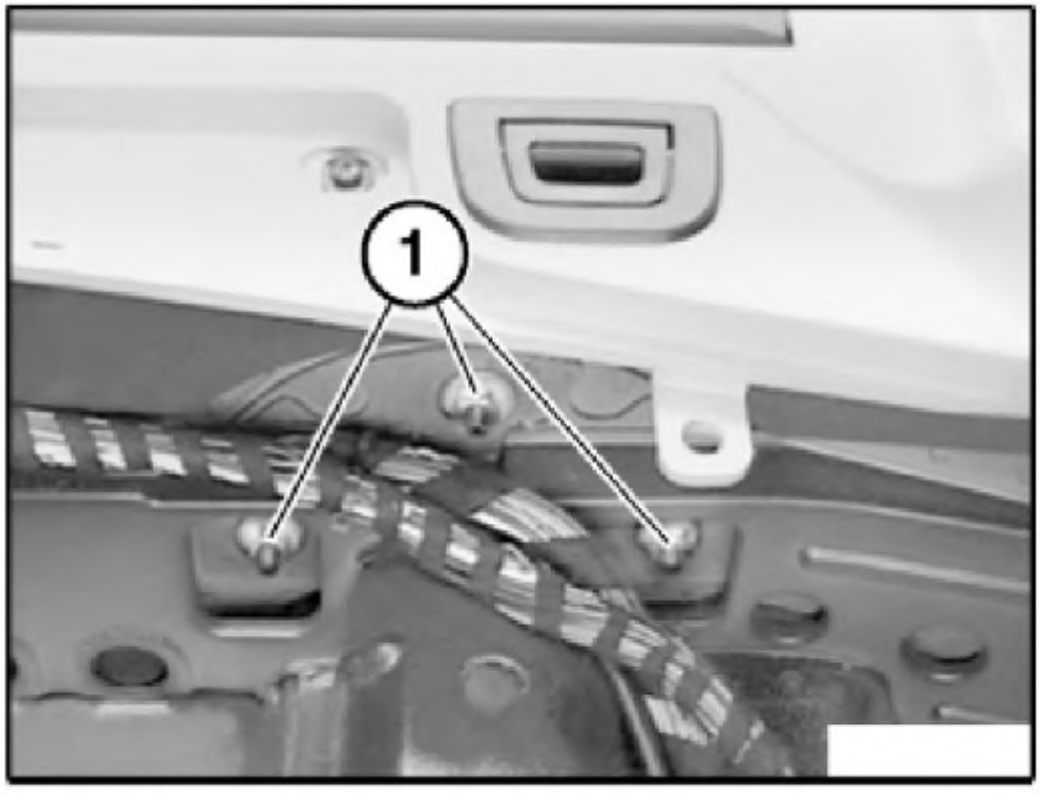


Fig. 45: Releasing Nuts On Inside And Removing Shock Absorber
Courtesy of BMW OF NORTH AMERICA, INC.

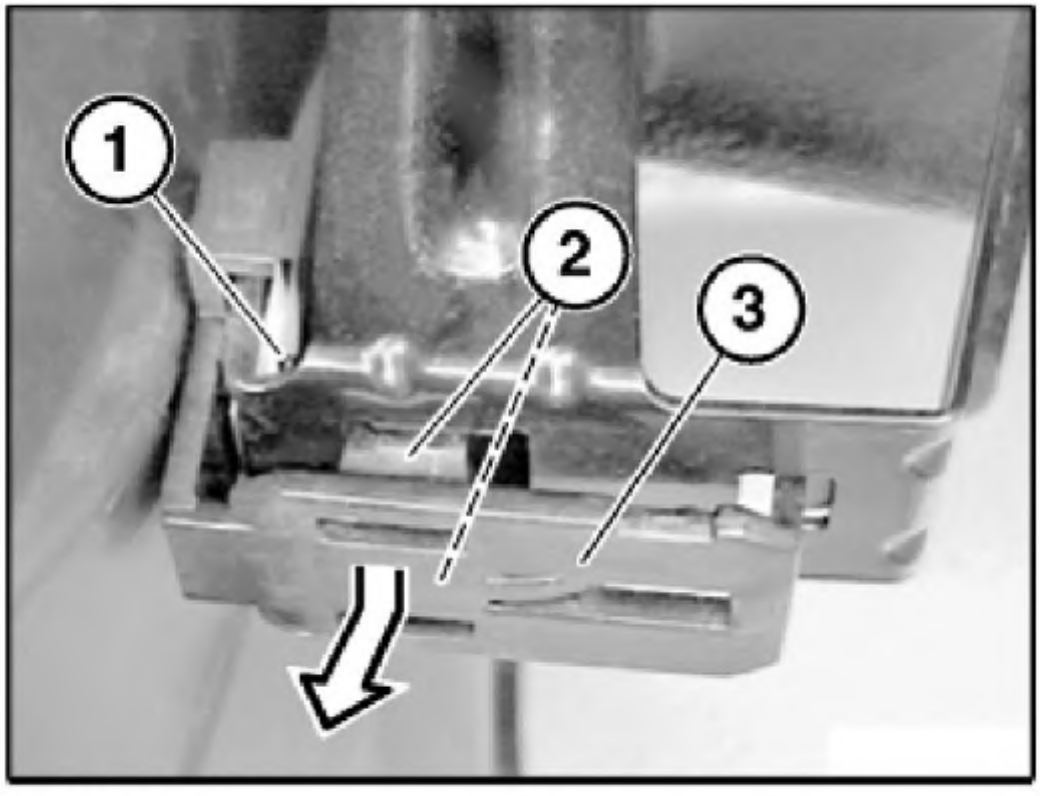
51 12 801 REPLACING BRACKET FOR REAR BUMPER AT LEFT OR RIGHT

(bumper removed)

If necessary, remove rear bumper completely. See **51 12 001 Replacing Rear Bumper** .

Release screw (1) on wheel arch.

Press together catches (2) and remove holder (3) outwards/forwards.



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Fig. 46: Removing Holder Outwards/Forwards
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Catches (1) and guides (2) must not be damaged.

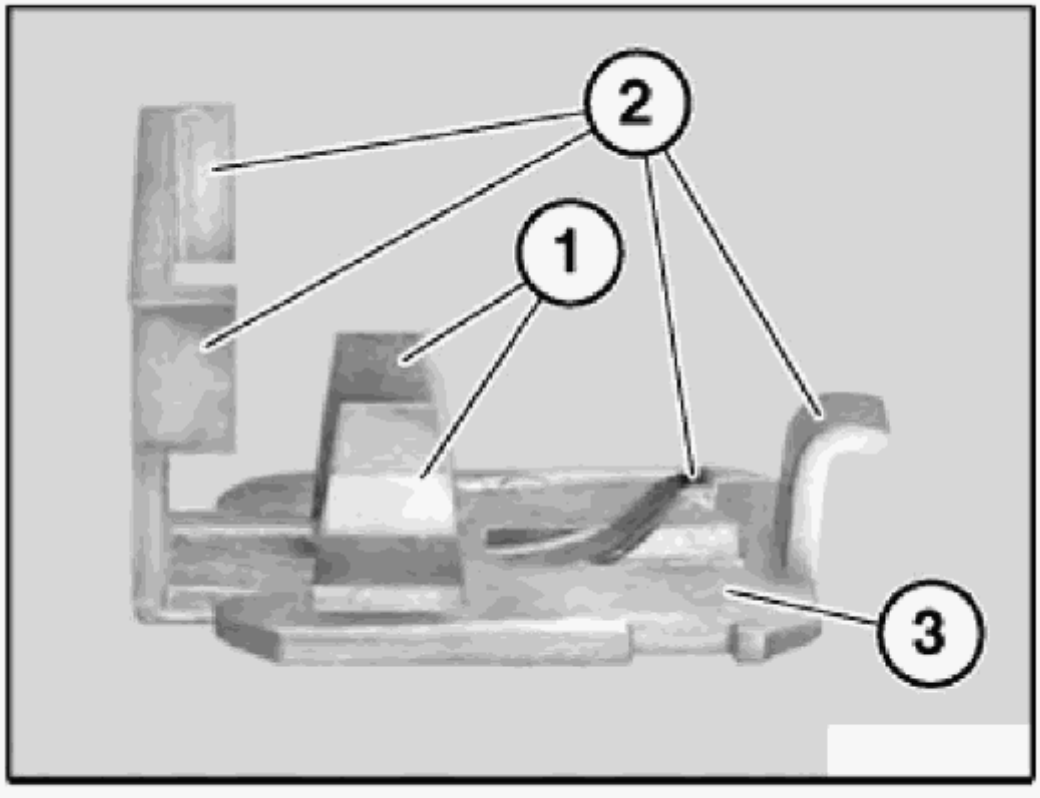


Fig. 47: Checking Catches And Guides
Courtesy of BMW OF NORTH AMERICA, INC.

Release screw (1) and remove holder (2).

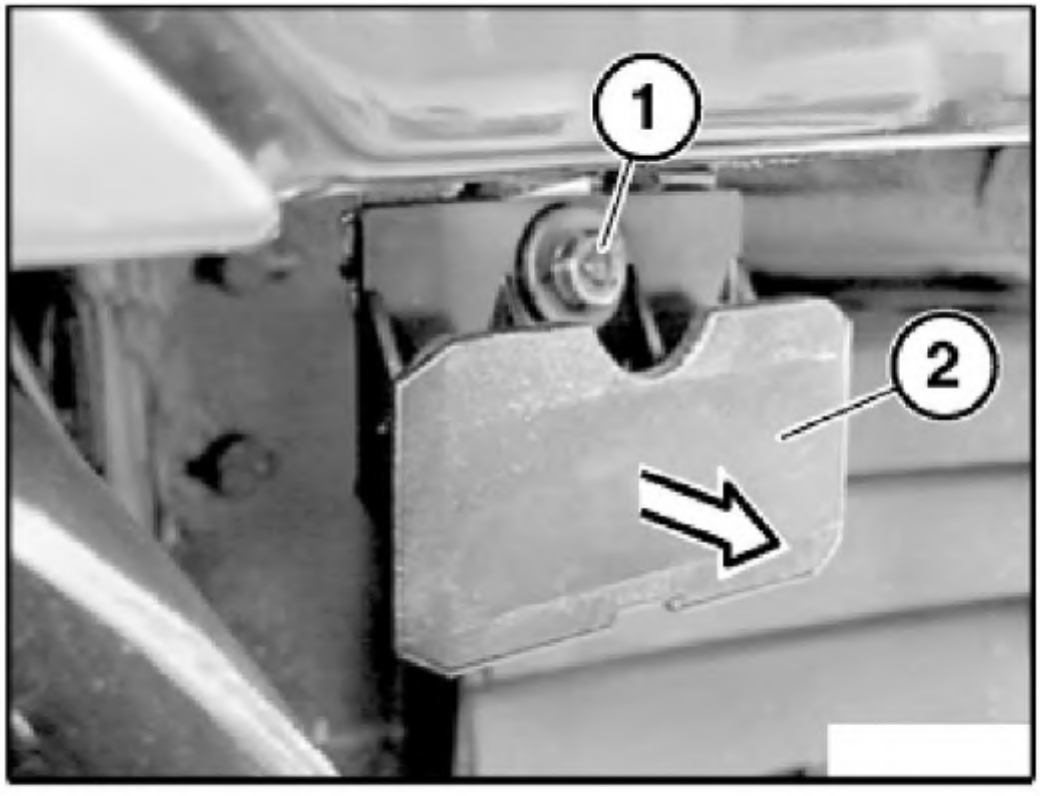


Fig. 48: Releasing Screw And Remove Holder
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Guides (1) on holder (2) must not be damaged.

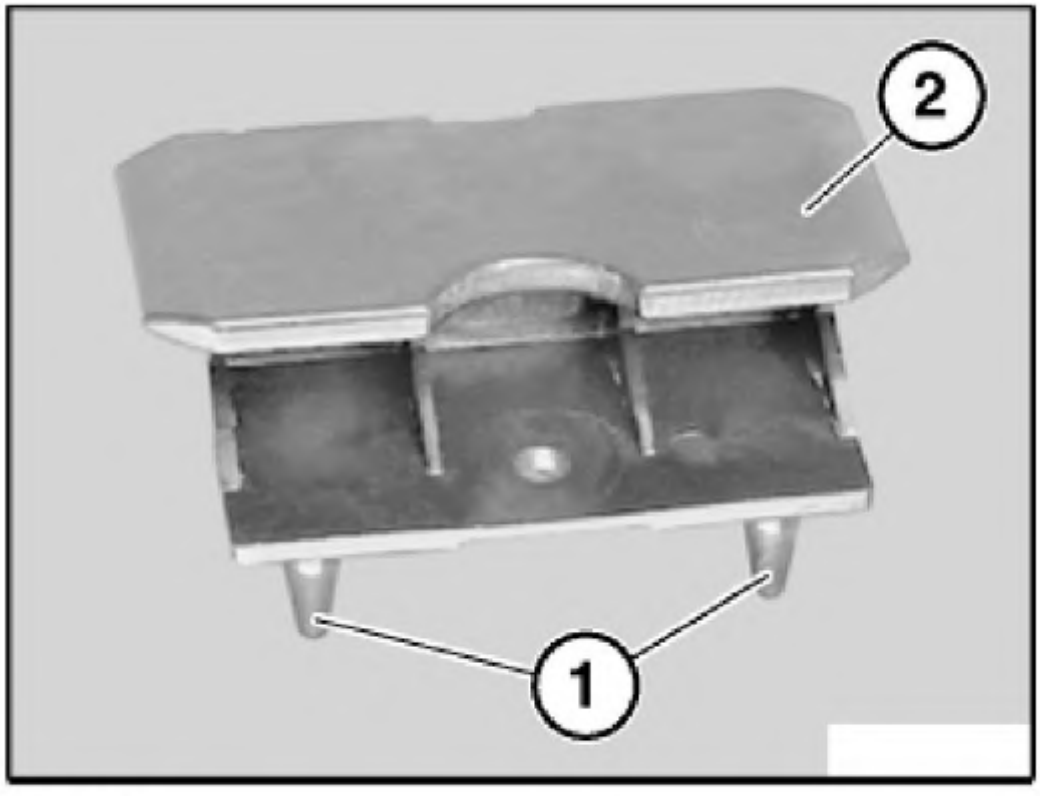


Fig. 49: Checking Guides On Holder
Courtesy of BMW OF NORTH AMERICA, INC.

TRIM, COVERS, HANDLE TRIM

51 13 065 REMOVING AND INSTALLING OR REPLACING FINISHER ON LEFT OR RIGHT HEADLIGHT HOUSING

Open hood.

Unclip clip (2) on trim (1) on inside.

Press trim (1) downwards out of holder.

Feed trim (1) out of hook (3) and remove.

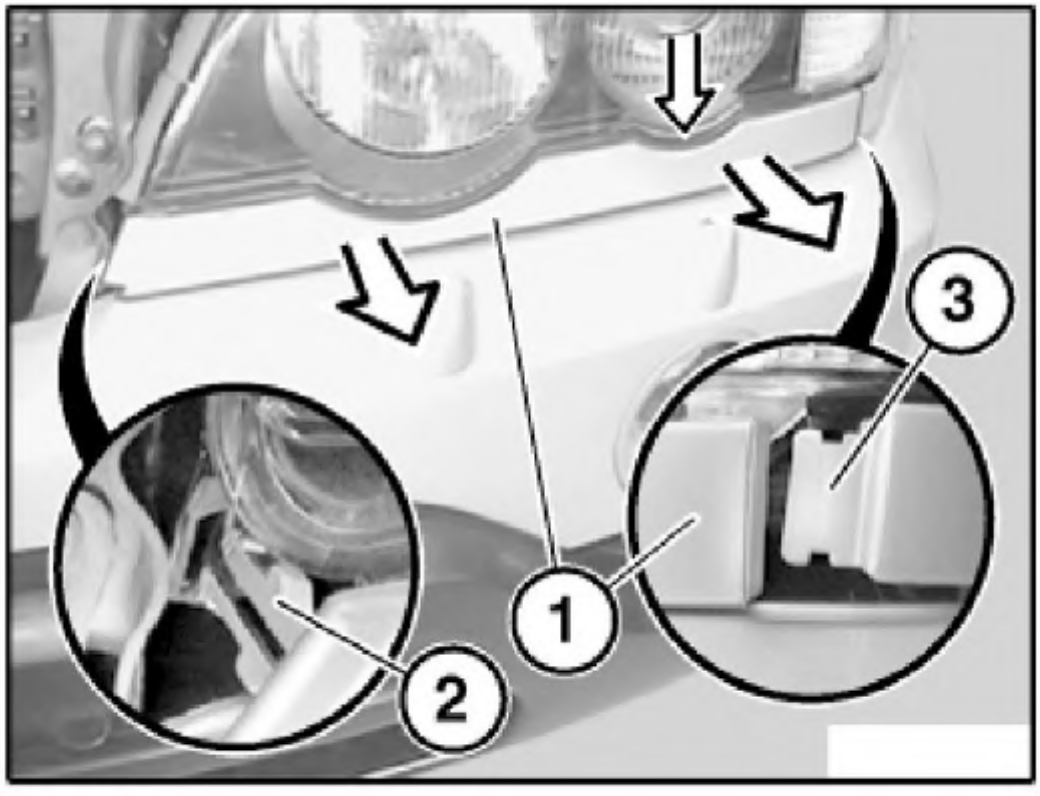


Fig. 50: Unclipping Clip On Trim On Inside
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Mount (2) and hooks (3) and (4) of trim (1) must not be damaged.

Seal (5) must be correctly seated.

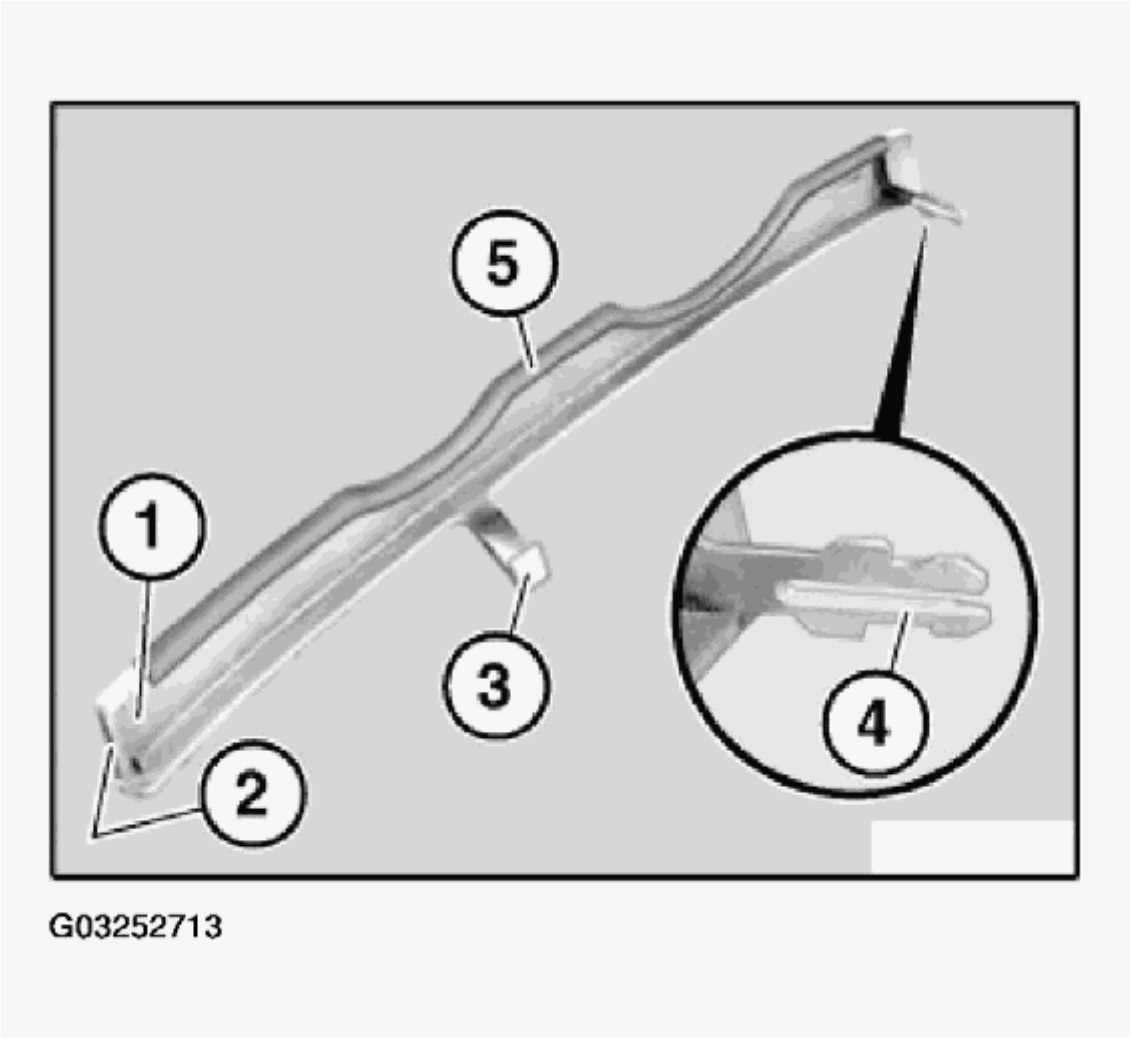


Fig. 51: Checking Mount And Hooks
Courtesy of BMW OF NORTH AMERICA, INC.

51 13 115 REMOVING AND INSTALLING/REPLACING COWL PANEL COVER

Remove both windshield wiper arms. **61 61 081 REPLACING LEFT OR RIGHT WINDSHIELD WIPER ARMS** .

Detach seals (1).

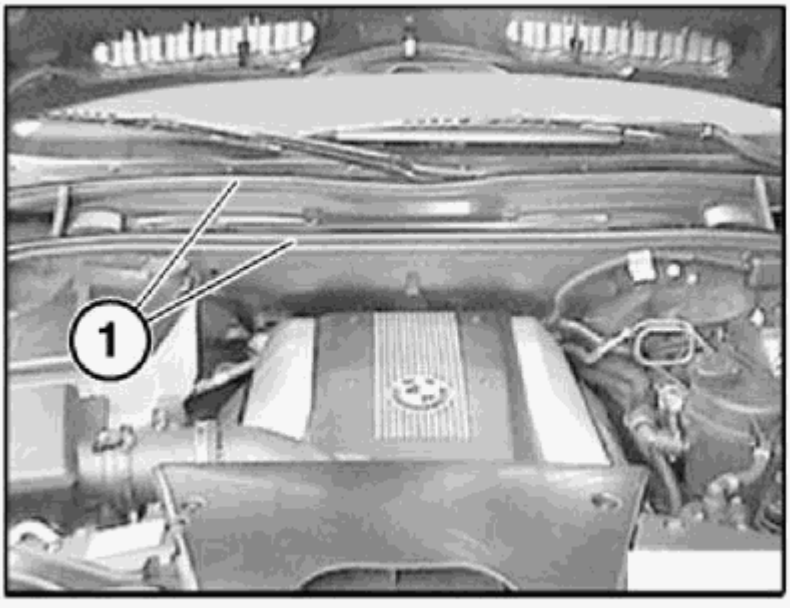


Fig. 52: Detaching Seals
Courtesy of BMW OF NORTH AMERICA, INC.

Turn tommy bar through 90° and lift off cover.

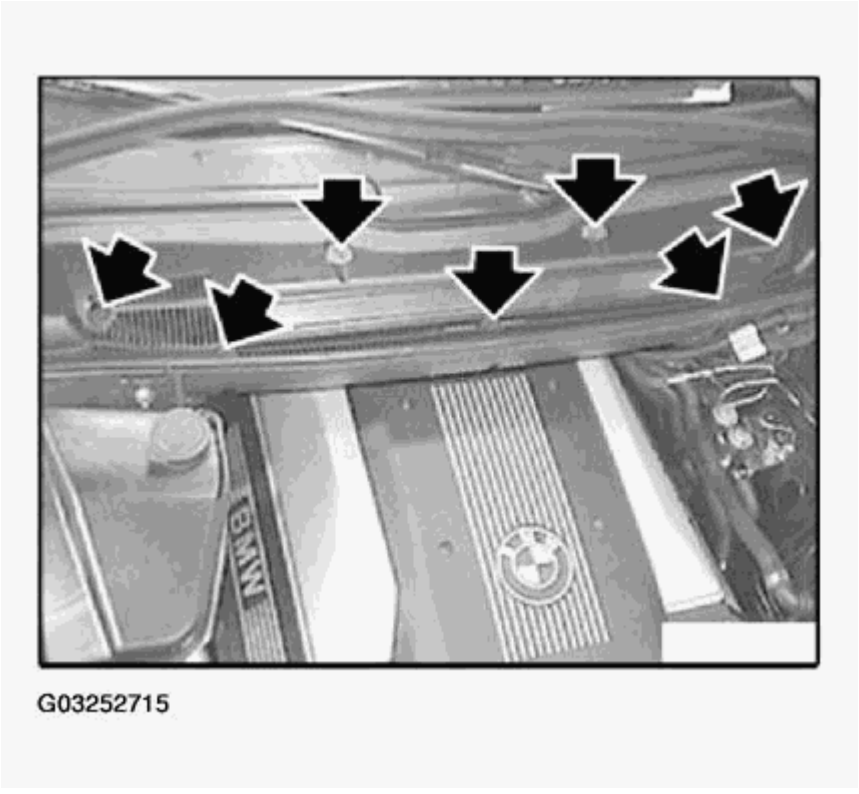


Fig. 53: Turning Tommy Bar Through 90° And Lift Off Cover
Courtesy of BMW OF NORTH AMERICA, INC.

Release expansion rivets (1).

Remove cover (2) for cowl panel.

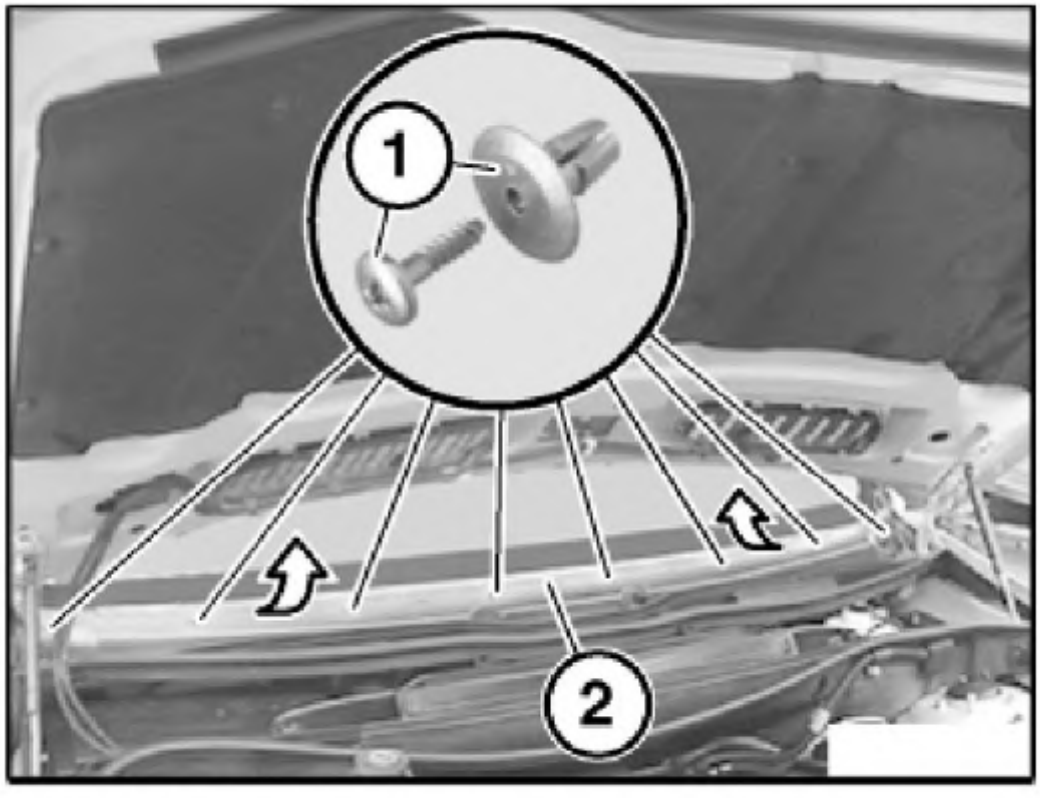
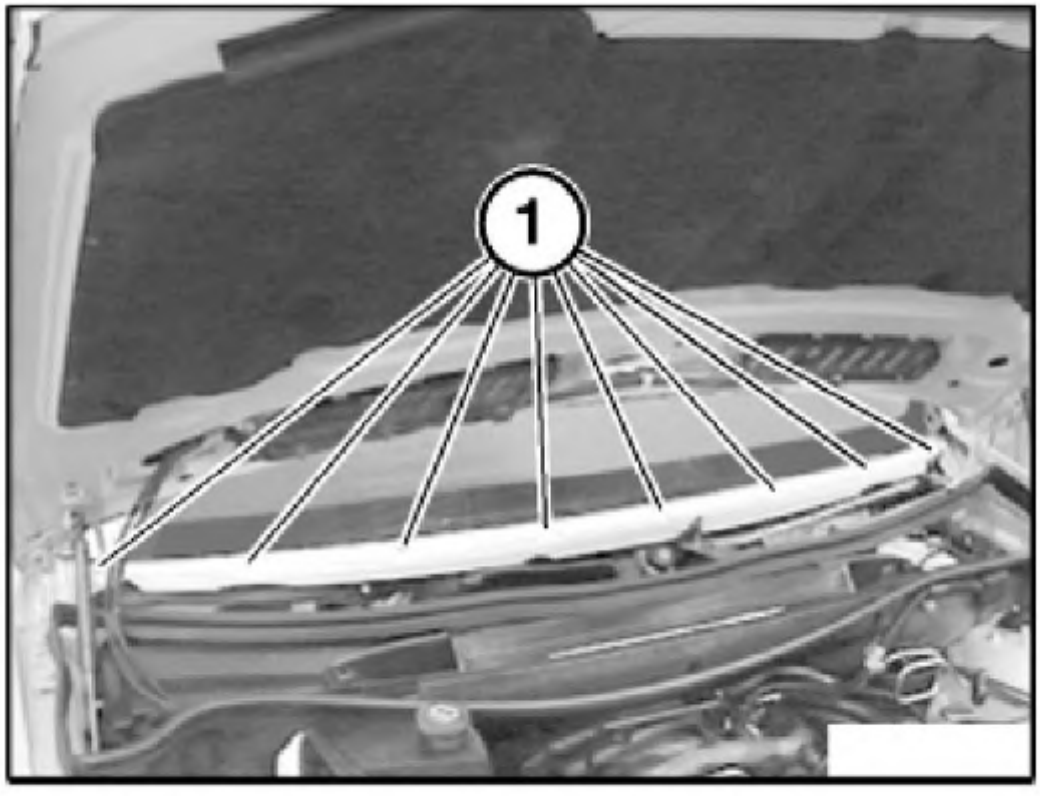


Fig. 54: Releasing Expansion Rivets
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

If necessary, replace defective grommets (1).



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Fig. 55: Checking Grommets
Courtesy of BMW OF NORTH AMERICA, INC.

Only replacement:

If necessary, detach seals (1) from cover (2).

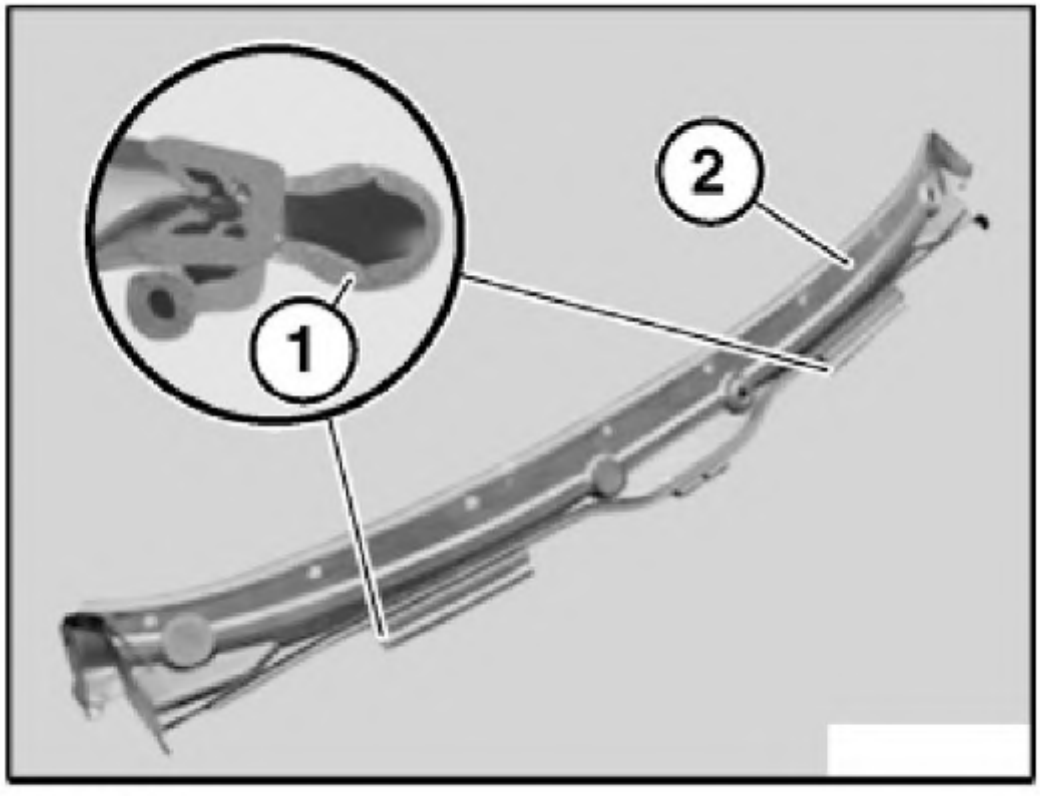


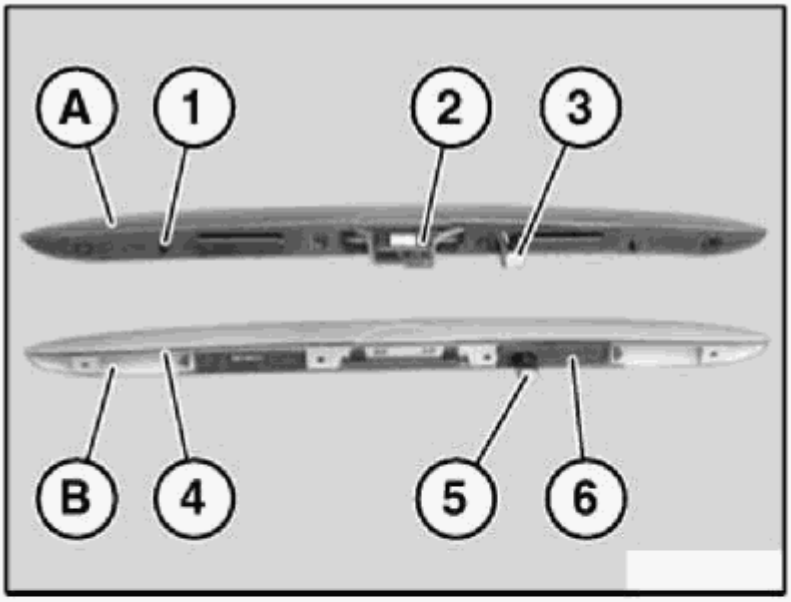
Fig. 56: Detaching Seals From Cover
Courtesy of BMW OF NORTH AMERICA, INC.

51 13 402 REMOVING AND INSTALLING HANDLE STRIP (ON TRUNK LID)

Difference between versions before and after 09/01:

A. Version before 09/01
   - **1)** Wide seal over entire handle strip
   - **2)** Open microswitch
   - **3)** Plug connection

B. Version after 09/01
   - **4)** Narrow seal only at top over entire handle strip
   - **5)** Plug connection
   - **6)** Small seal around plug connection (5)



A Version before 09/01

1 Wide seal over entire handle strip

2 Open microswitch

3 Plug connection

B Version after 09/01

4 Narrow seal only at top over entire handle strip

5 Plug connection

6 Small seal around plug connection (5)

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Fig. 57: Identifying Components
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

In version (B), closed expansion nuts and shorter screws (3.5 x 13 mm) must be used.

Release screws (1) and withdraw handle strip (2) somewhat.

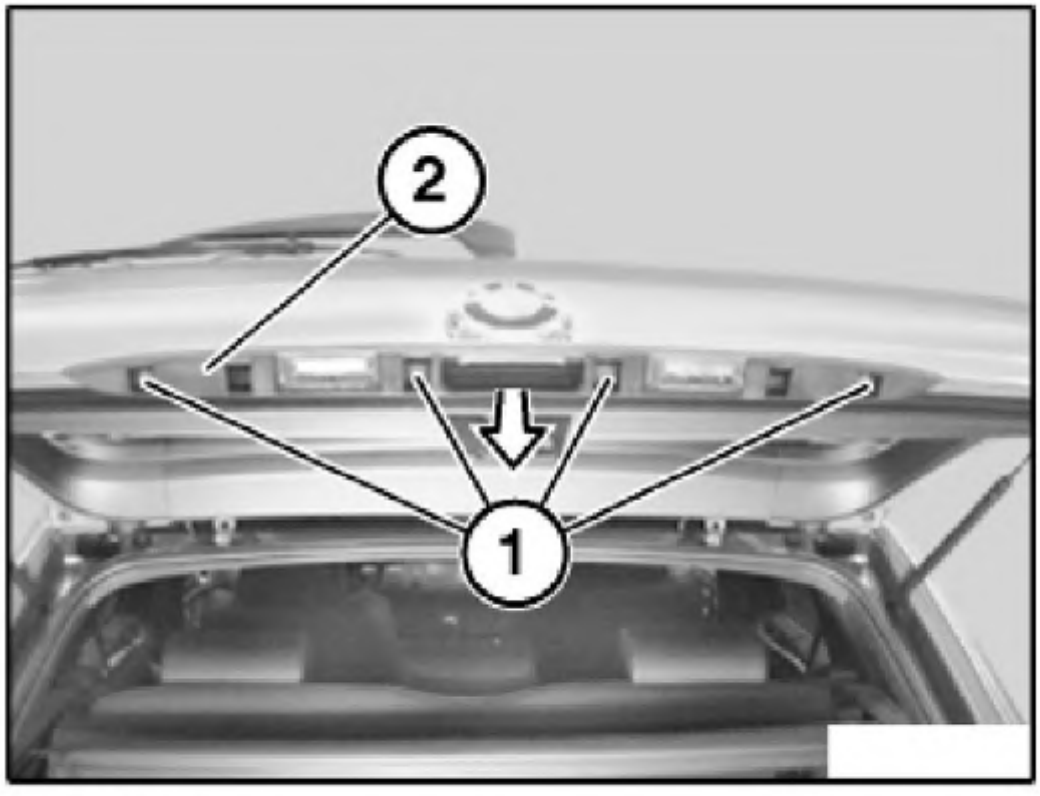


Fig. 58: Releasing Screws And Withdraw Handle Strip Somewhat
Courtesy of BMW OF NORTH AMERICA, INC.

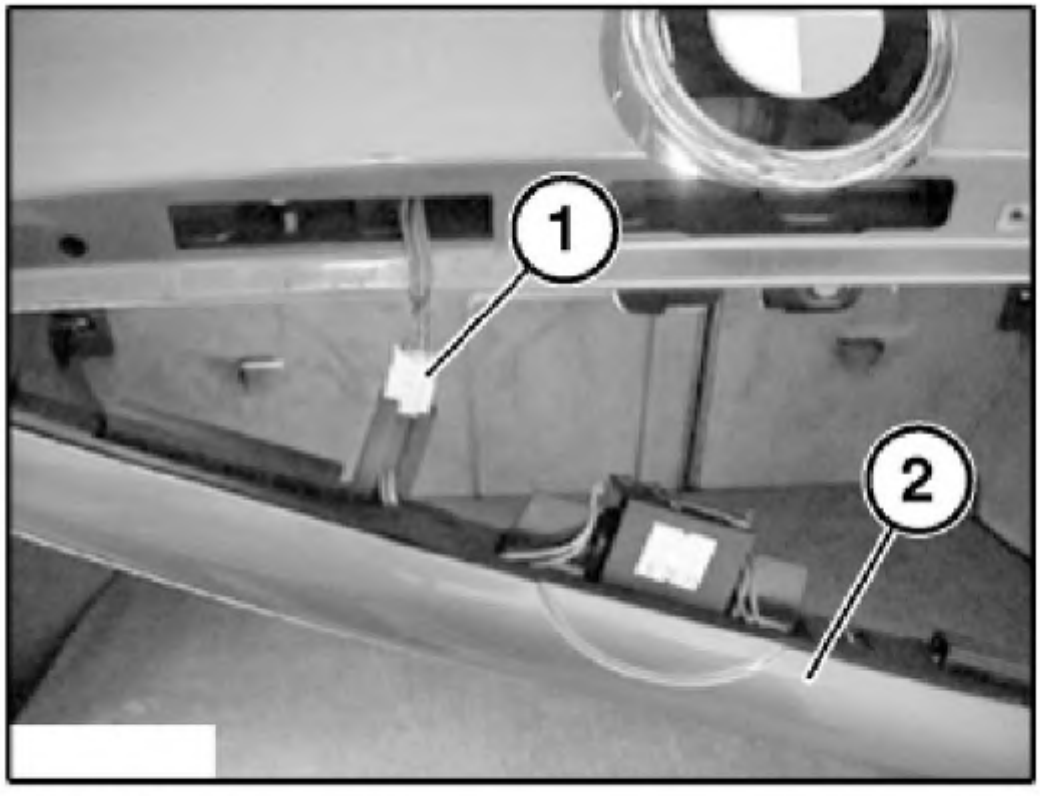
Disconnect plug connection (1) and remove handle strip (2).

Installation:

Seal(s) of handle strip (2) must not be damaged.

Tightening torque, see 51 13 4AZ in **BODY EQUIPMENT - TIGHTENING TORQUES** .

Perform function check with trunk lid open.



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Fig. 59: Disconnecting Plug Connection And Removing Handle Strip
Courtesy of BMW OF NORTH AMERICA, INC.

51 13 403 REPLACING HANDLE STRIP (ON TRUNK LID)

Special tools required

- 00 9 322

Necessary Preliminary Tasks

- Remove handle strip.

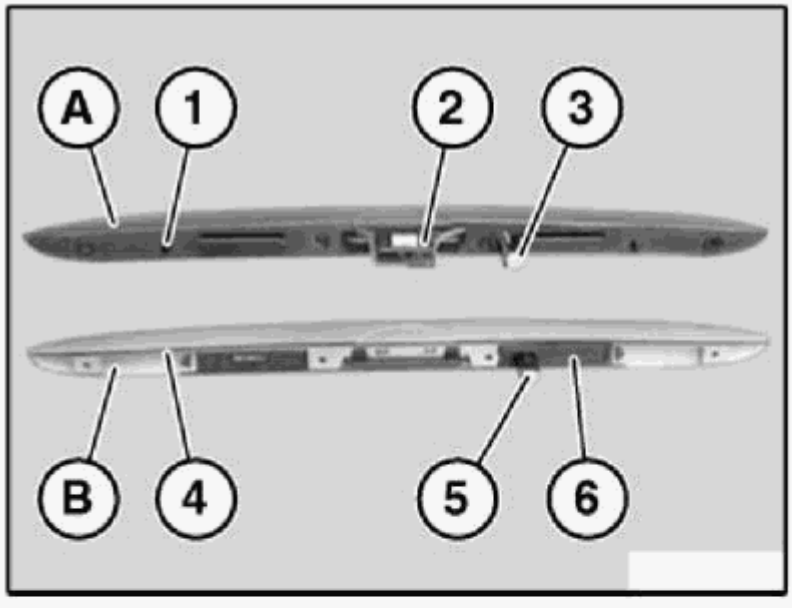
Difference Between Versions Before And After 09/01:

A. Version before 09/01
   - **1)** Wide seal over entire handle strip.
   - **2)** Open microswitch.

- **3)** Plug connection.

B. Version after 09/01

- **4)** Narrow seal only at top over entire handle strip.
- **5)** Plug connection.
- **6)** Small seal around plug connection (5).



A Version before 09/01
1 Wide seal over entire handle strip
2 Open microswitch
3 Plug connection
B Version after 09/01
4 Narrow seal only at top over entire handle strip
5 Plug connection
6 Small seal around plug connection (5)

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Fig. 60: Identifying Components
Courtesy of BMW OF NORTH AMERICA, INC.

Lever light strip (1) on left/right out of recess (2) and remove.

Detach bulb (3) on left/right.

Installation:

Perform function check with trunk lid open.

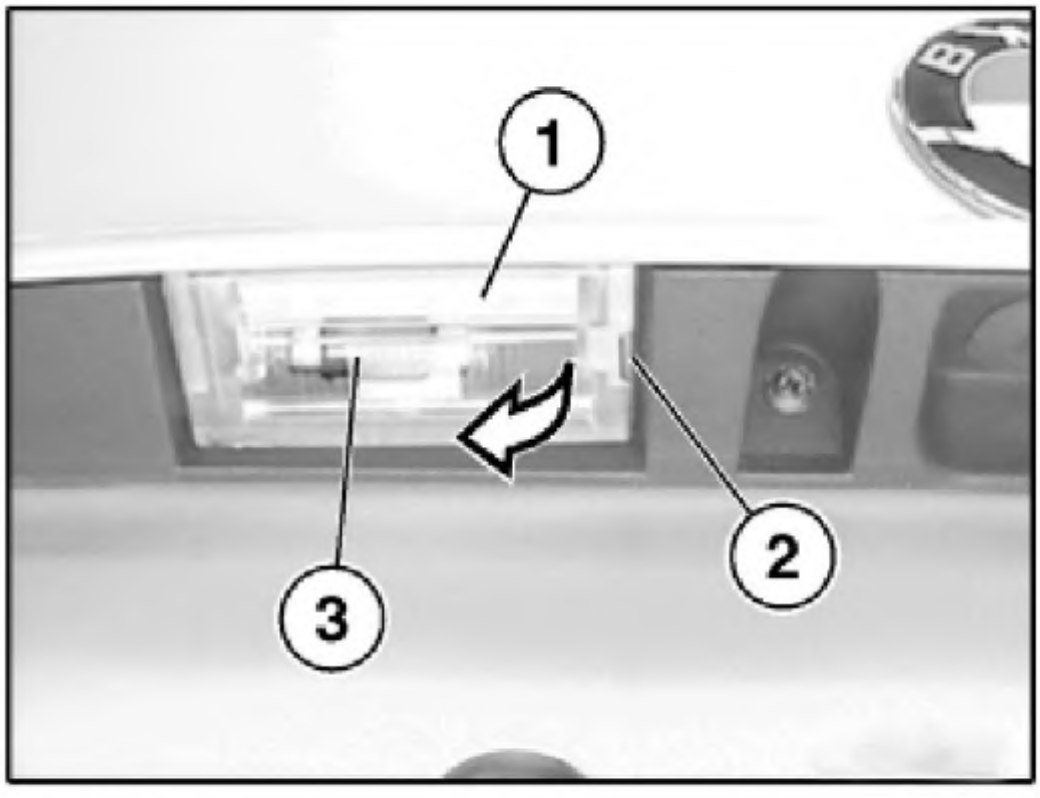


Fig. 61: Detaching Bulb On Left/Right
Courtesy of BMW OF NORTH AMERICA, INC.

NOTE: Scope of work for "Replacing handle strip (on rear lid after 09/01)" ends here.

Handle Strip After 09/01 On Rear Lid Before 09/01:

Use repair kit.

Fit new (closed) expansion nuts (1).

Clean area of handle strip (grease-free).

Pull off round film (2) from liner (4) and seal left bore hole.

Pull off long film (3) from liner (4), seal right bore hole and both elongated holes.

The liner is the protective film on the bonding area.

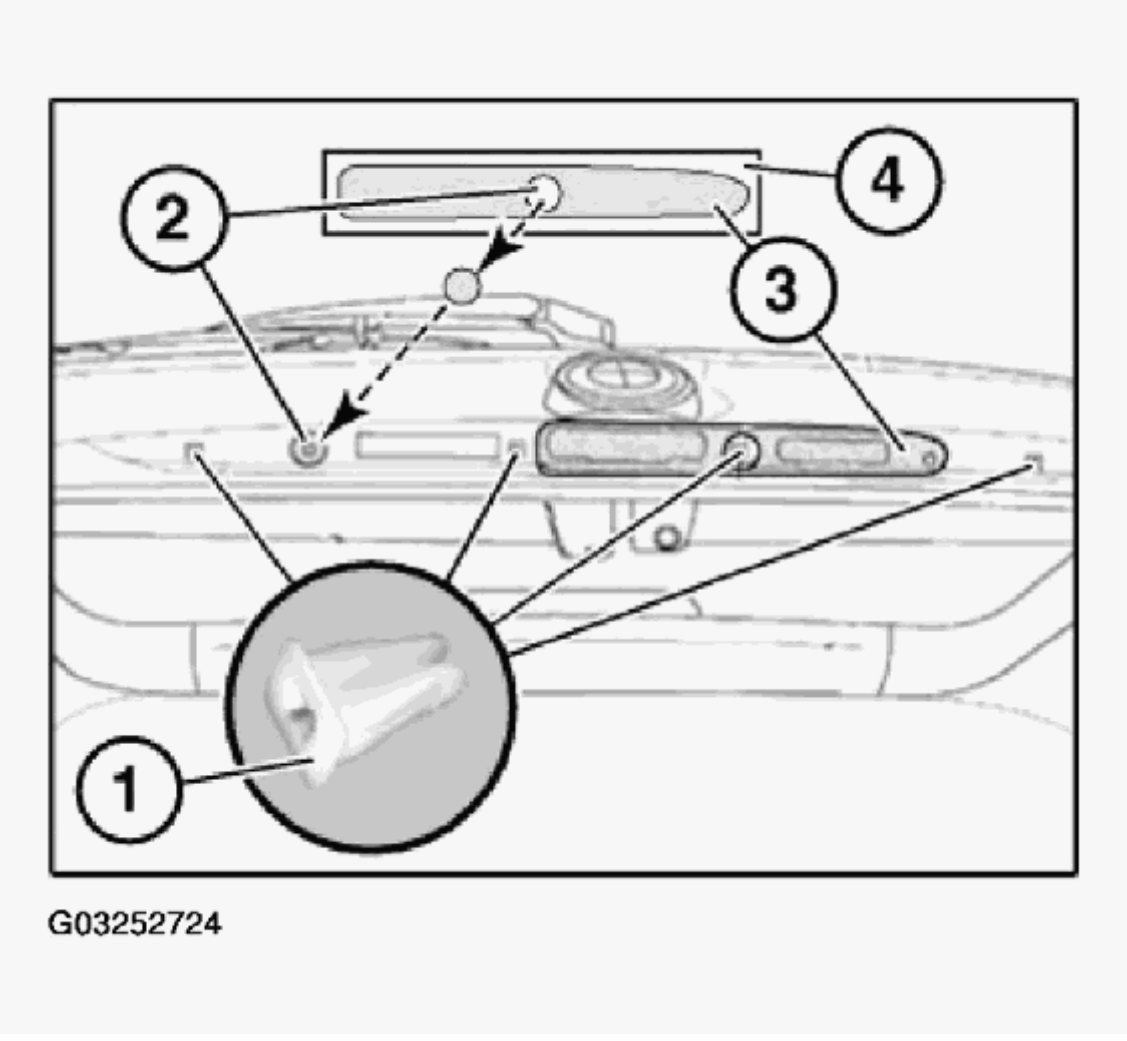


Fig. 62: Installing Expansion Nuts
Courtesy of BMW OF NORTH AMERICA, INC.

Attach seal (1) over plug connection (2) of new handle strip (3).

Seal (4) must not be damaged.

Use only new screws (3.5 x 13 mm).

Installation:

Perform function check with trunk lid open.

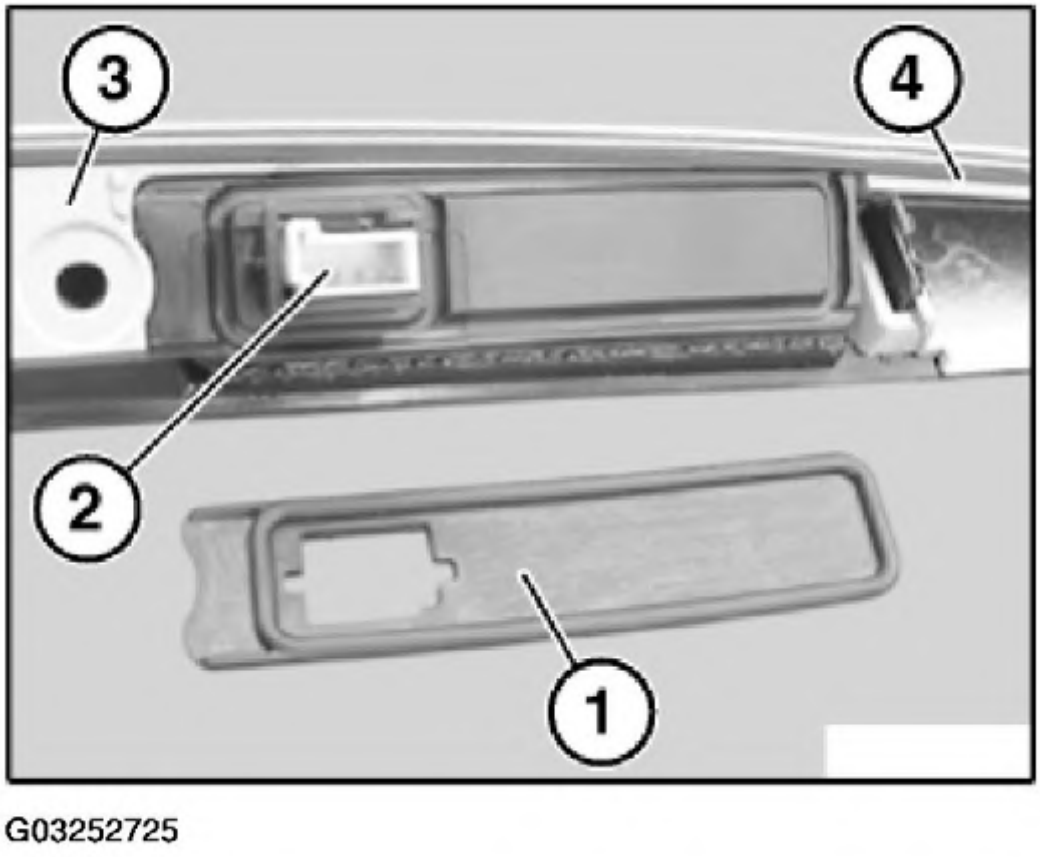


Fig. 63: Attaching Seal Over Plug Connection Of Handle Strip
Courtesy of BMW OF NORTH AMERICA, INC.

NOTE: Scope of work for "Replacing handle strip after 09/01 on rear lid before 09/01" ends here.

Version Before 09/01 Only:

Detach seal (1) from handle strip (2).

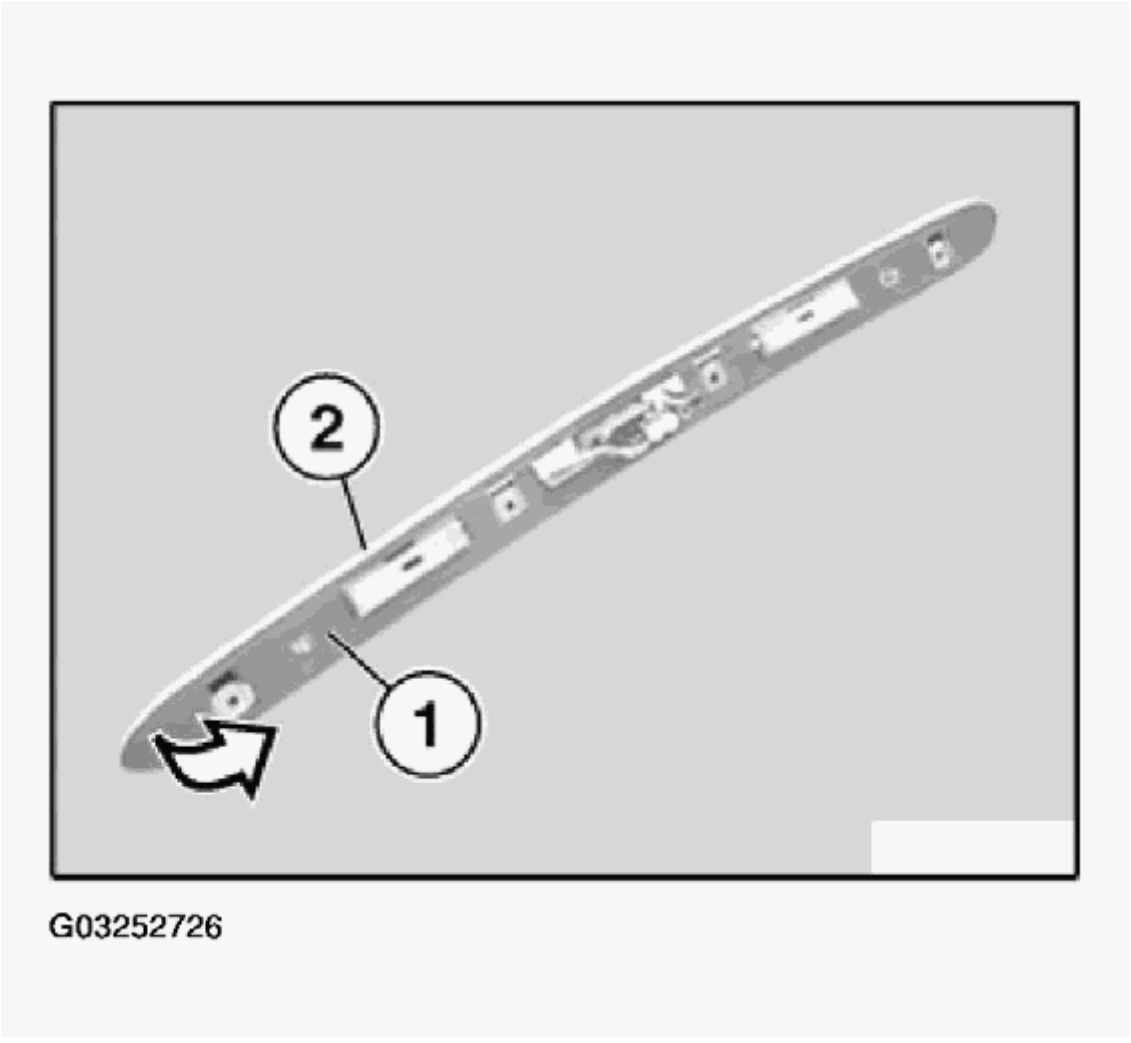


Fig. 64: Detaching Seal From Handle Strip
Courtesy of BMW OF NORTH AMERICA, INC.

NOTE: Do not damage trim (2) when removing catches (1).

Carefully lever panel (2) with special tool 00 9 322 (plastic wedge) out of handle strip (3) and remove.

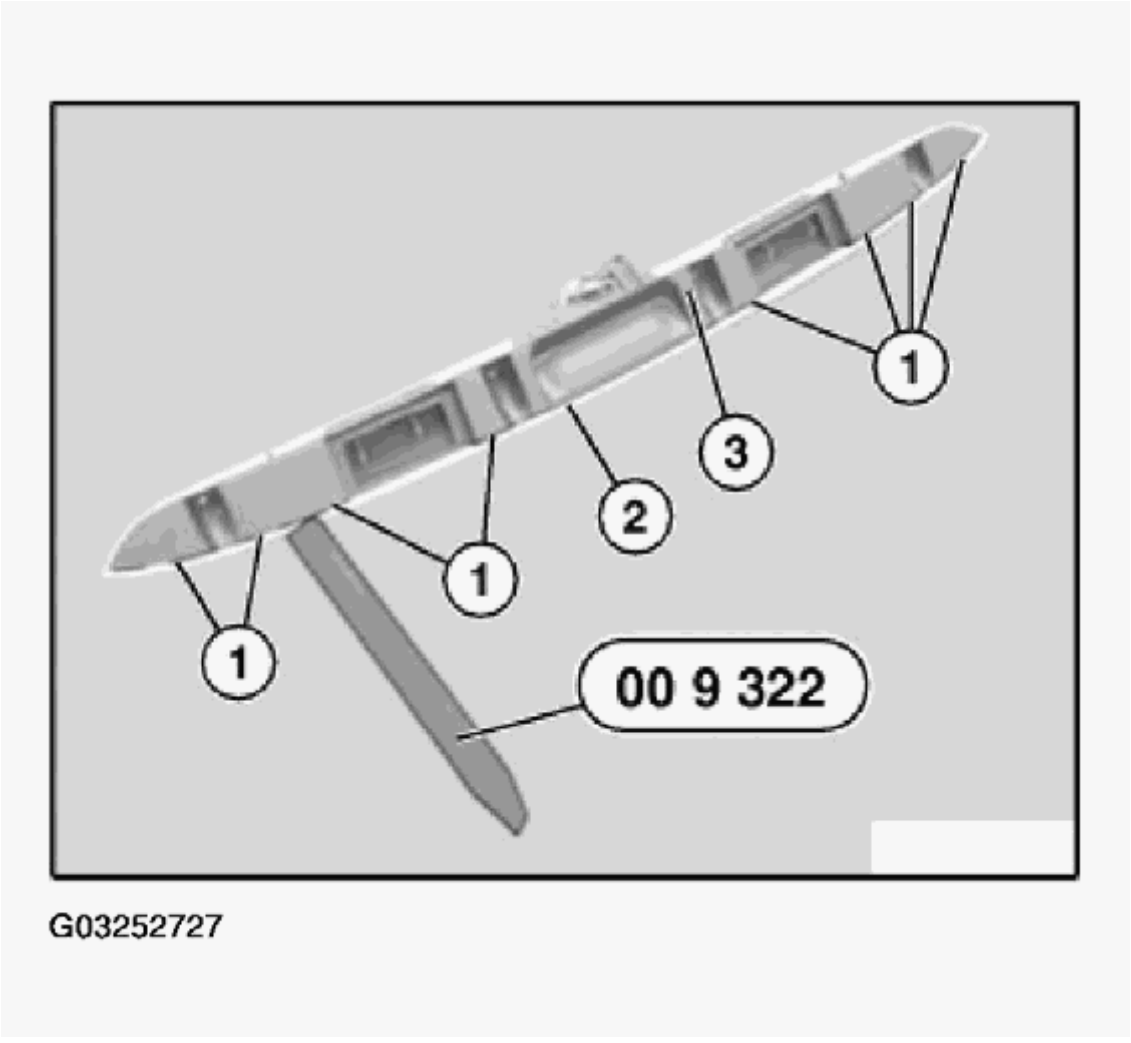


Fig. 65: Removing Lever Panel
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Catches (1) and guides (2) of trim (3) must not be damaged.

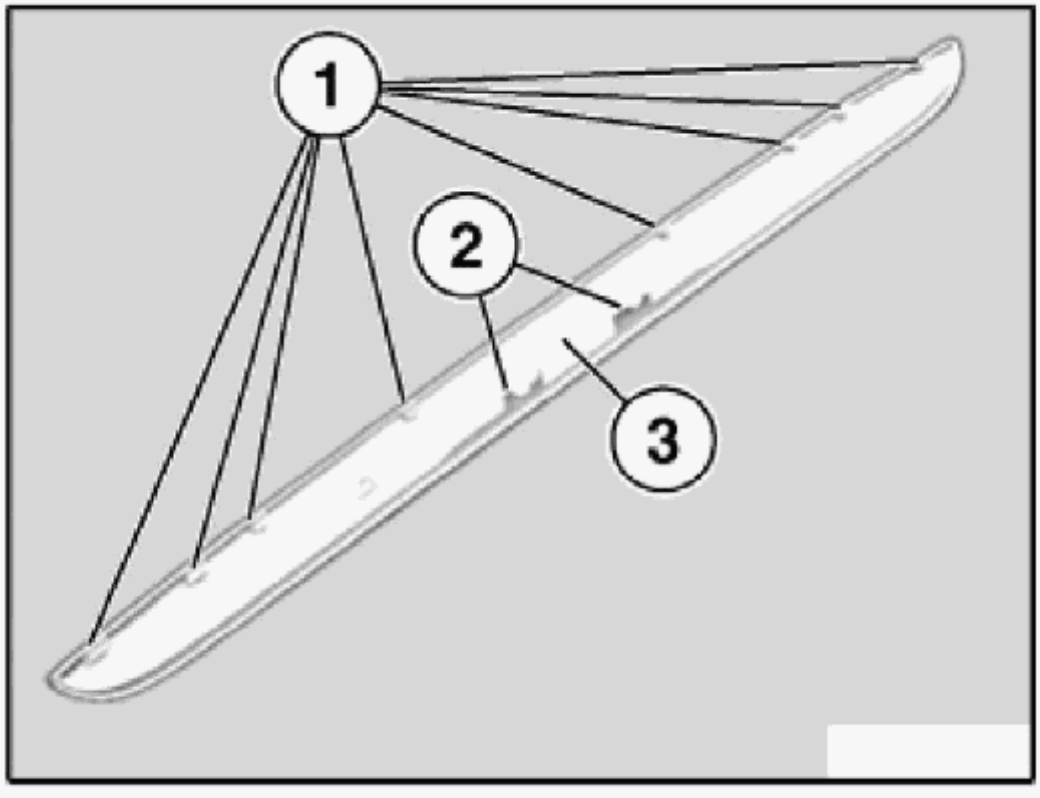


Fig. 66: Checking Catches And Guides Of Trim
Courtesy of BMW OF NORTH AMERICA, INC.

Remove adhesive residue (1) from handle strip (2).

Installation:

Perform function check with trunk lid open.

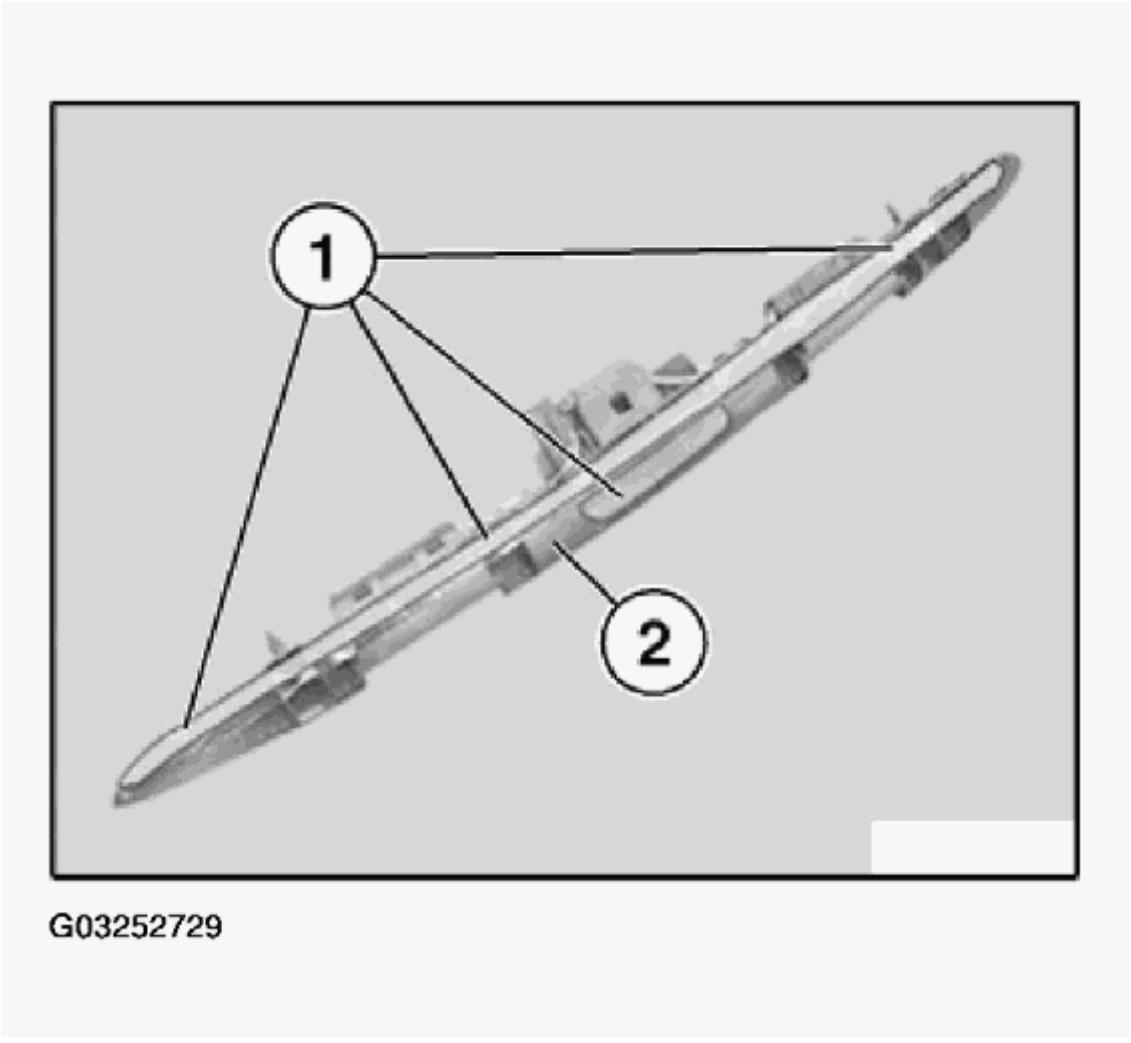


Fig. 67: Removing Adhesive Residue From Handle Strip
Courtesy of BMW OF NORTH AMERICA, INC.

BMW EMBLEMS, MODEL EMBLEMS

51 14 ... INSTRUCTIONS FOR ATTACHING NUMBER/LETTER DESIGNATION COMBINATION

NOTE: The model designation is attached with adhesive and cannot be re-used.

The model designation must be attached at room temperature.

The model designation must be removed at stove-enameling temperatures exceeding 80 °C.

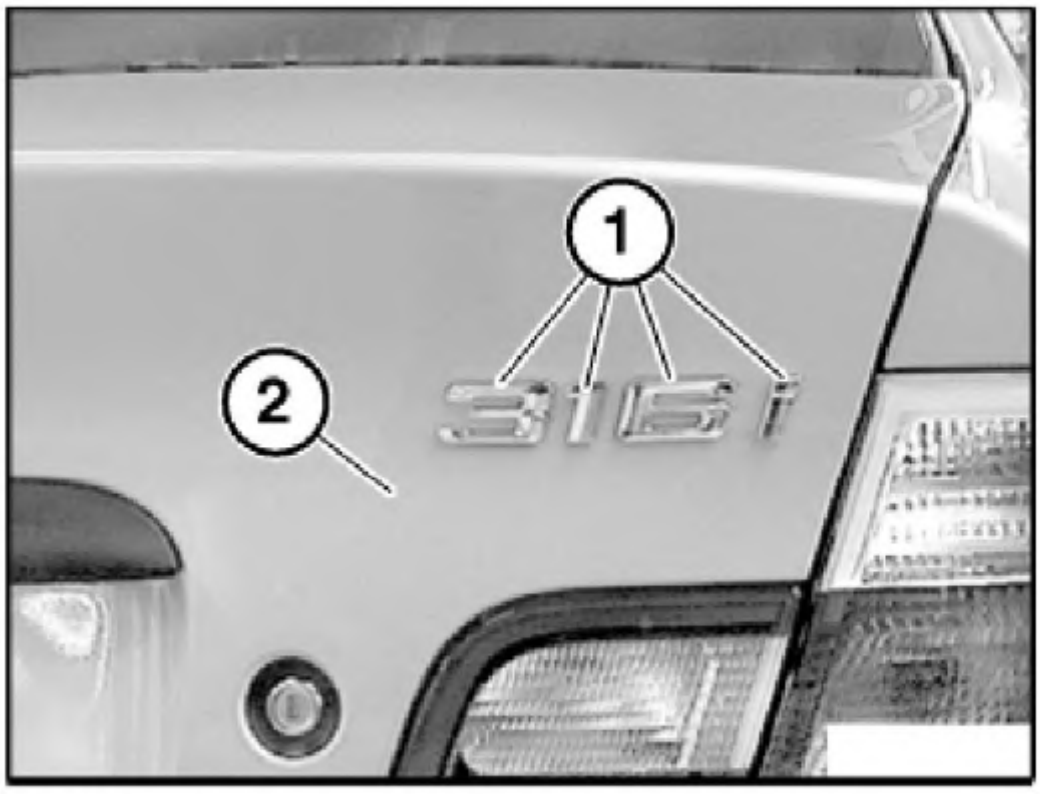
NOTE: The following work steps are described using the "316 i" as the example.

Removing:

Coat nylon string or strong yarn with dishwashing liquid.

Cut through adhesive layer and remove model designation (1) from rear lid (2).

Remove remainder of adhesive layer with adhesive remover.



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Fig. 68: Removing Model Designation From Rear Lid
Courtesy of BMW OF NORTH AMERICA, INC.

Assembly:

Number and letter combinations (1) of the model designation are not connected to each other and are supplied on a carrier film (2).

IMPORTANT: Adhesive areas must be dry and free of dust and grease.

Once it has been cleaned, do not touch the adhesive area with bare hands.

Remove liner (3) (protective strip for adhesive surface).

Press on model designation firmly.

Remove carrier film (2).

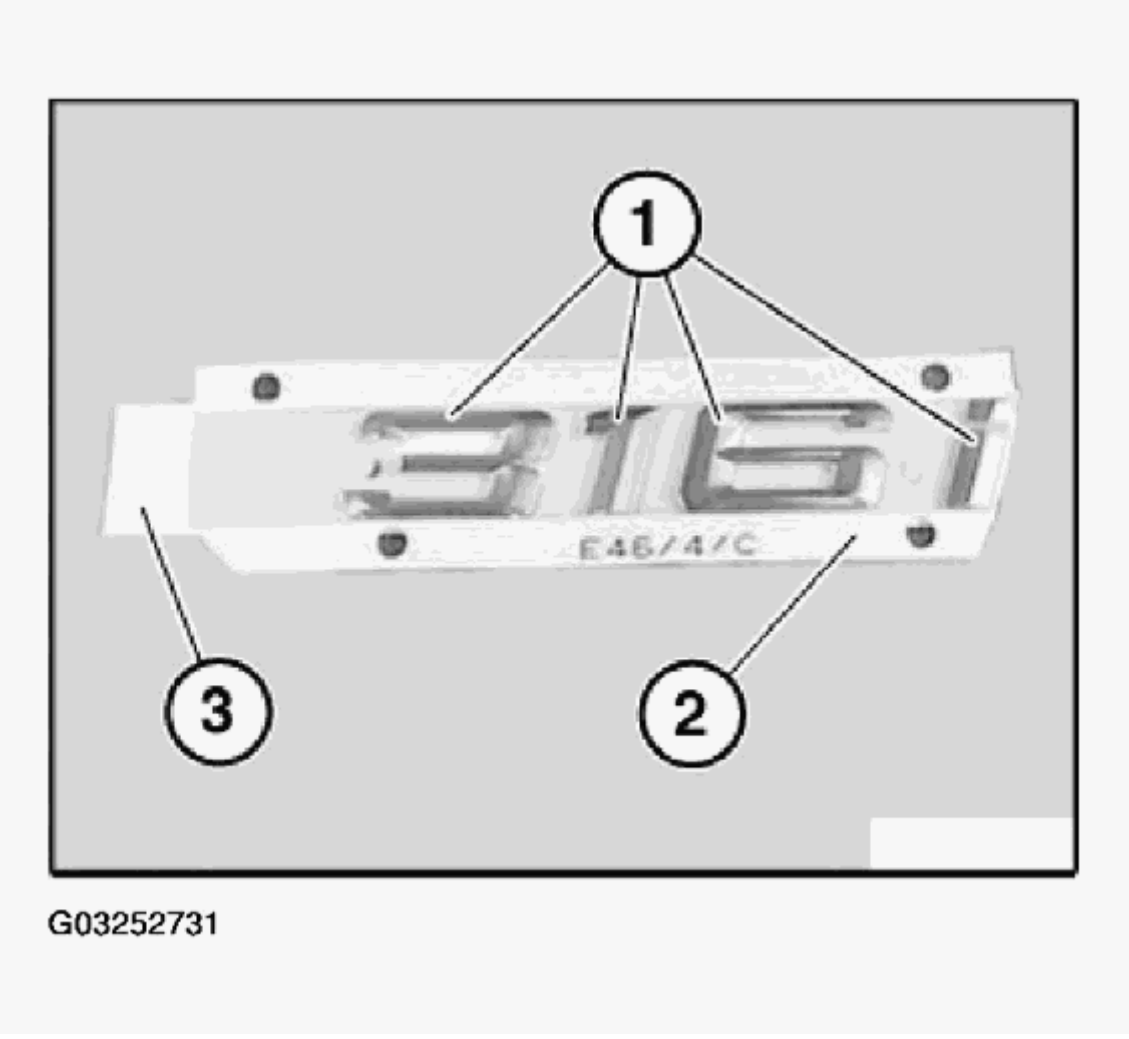


Fig. 69: Removing Carrier Film
Courtesy of BMW OF NORTH AMERICA, INC.

51 14 000 REMOVING AND INSTALLING/REPLACING FRONT BMW BADGE

Special tools required

- 00 9 318

Removal & Installation

Lever out badge with special tool 00 9 318 and remove towards top.

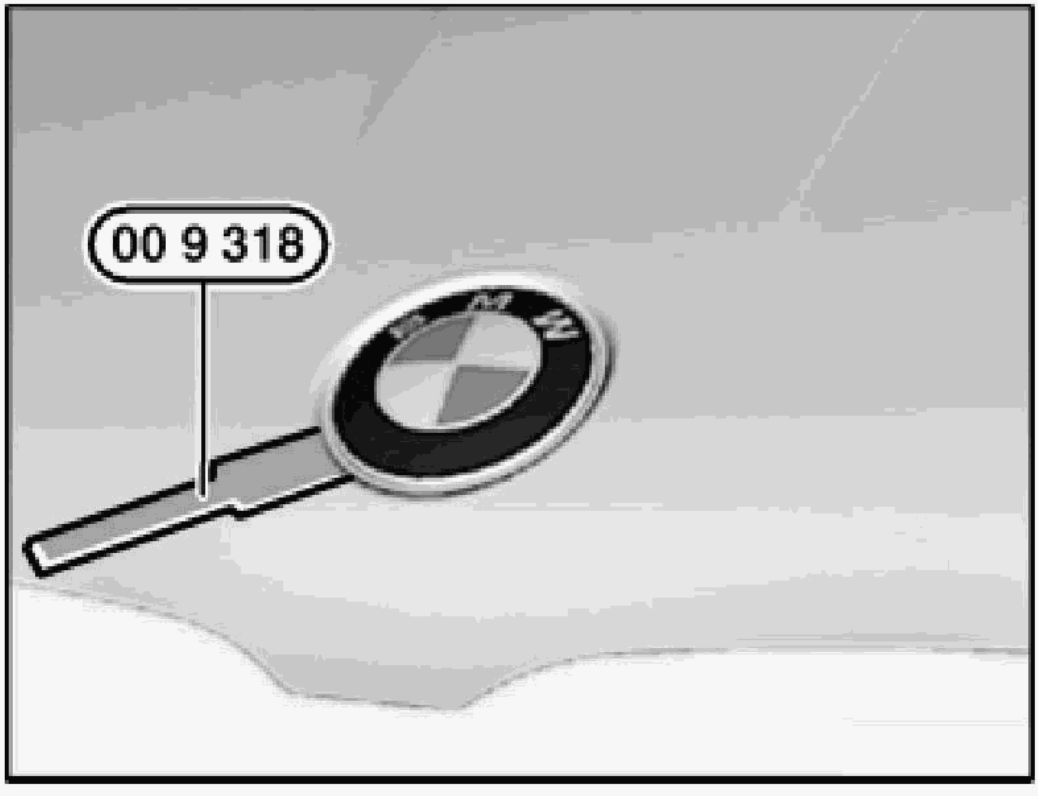
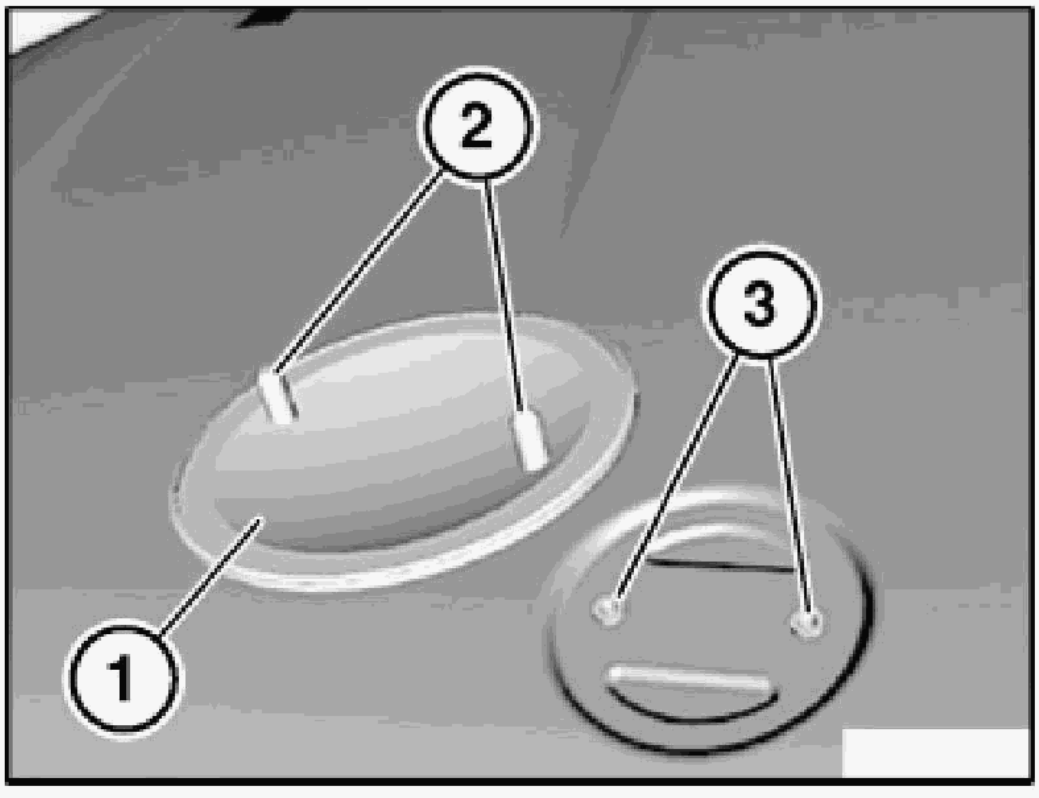


Fig. 70: Levering Out Badge With Special Tool
Courtesy of BMW OF NORTH AMERICA, INC.

Following parts of badge (1) must not be damaged or missing:

2 Guide pins
3 Grommets



2 Guide pins

3 Grommets

G03252733

Fig. 71: Checking Guide Pins And Grommets
Courtesy of BMW OF NORTH AMERICA, INC.

51 14 110 REMOVING AND INSTALLING/REPLACING REAR MODEL EMBLEM

Stick on top edge of adhesive tape (1) parallel to bottom edge of rear lid (2) at distance "A".

Mark measurement "B" from side edge (3) measured on top edge of adhesive tape.

Dimensions:

A= 22 mm

B= 53 mm

NOTE: Measurement "C" is for information purposes only, as it is determined by carrier film.

C= 8.7 mm

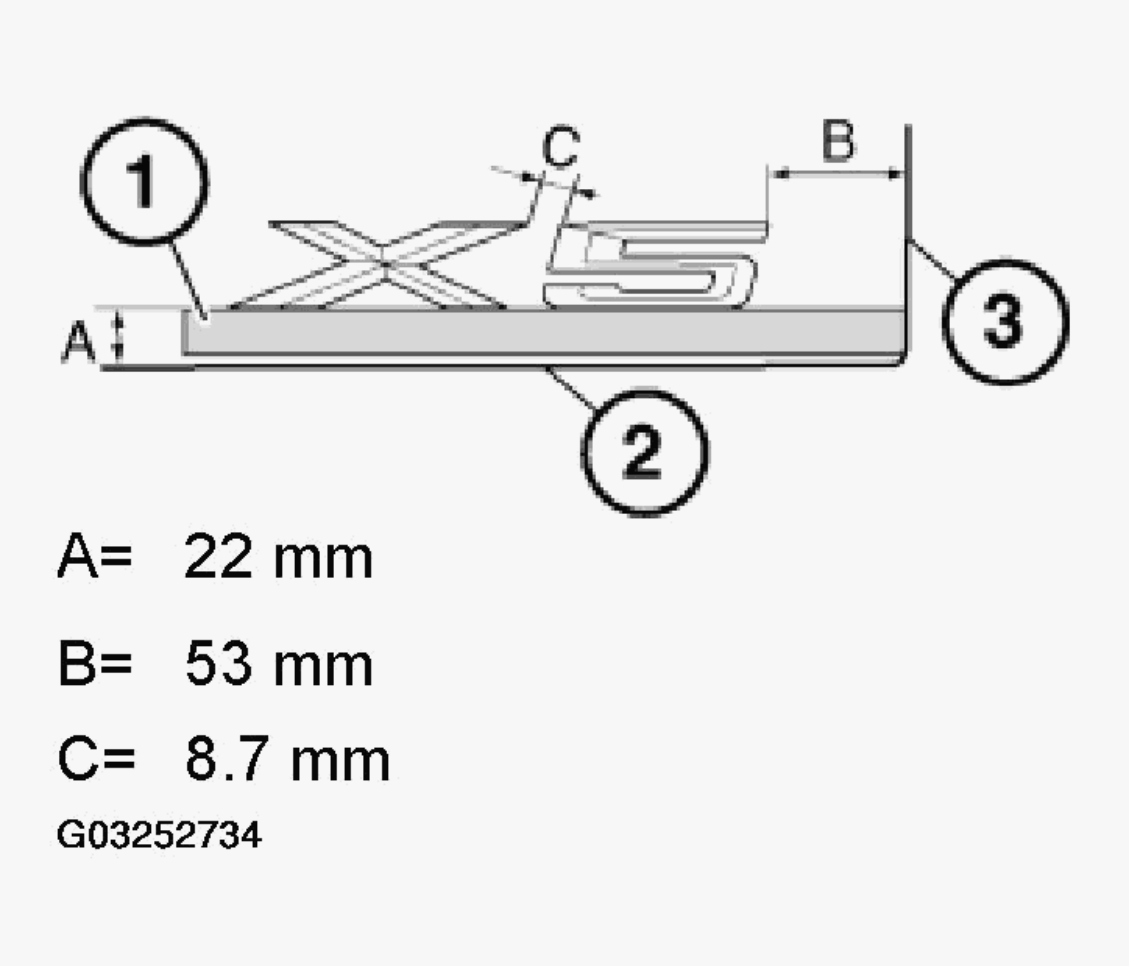


Fig. 72: Applying Rear Model Emblem
Courtesy of BMW OF NORTH AMERICA, INC.

BUMPER STRIP

51 15 330 REMOVING AND INSTALLING OR REPLACING BODY MOLDING ON LEFT OR RIGHT FRONT DOOR

Detach rubbing strip (1).

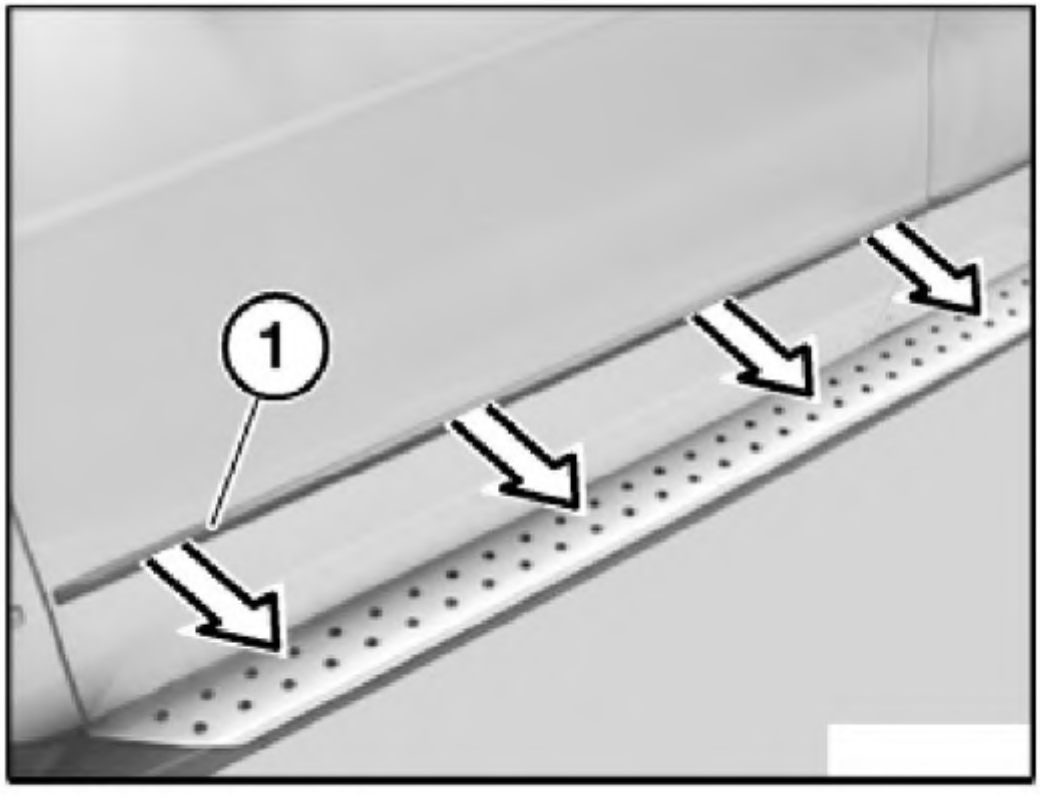


Fig. 73: Detaching Rubbing Strip
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Clean glued area.

Detach protective film from new rubbing strip and stick on.

51 15 360 REMOVING AND INSTALLING RUBBING STRIP ON REAR DOOR ON LEFT OR RIGHT

Detach rubbing strip (1).

Installation:

Clean glued area.

Detach protective film from new rubbing strip and stick on.

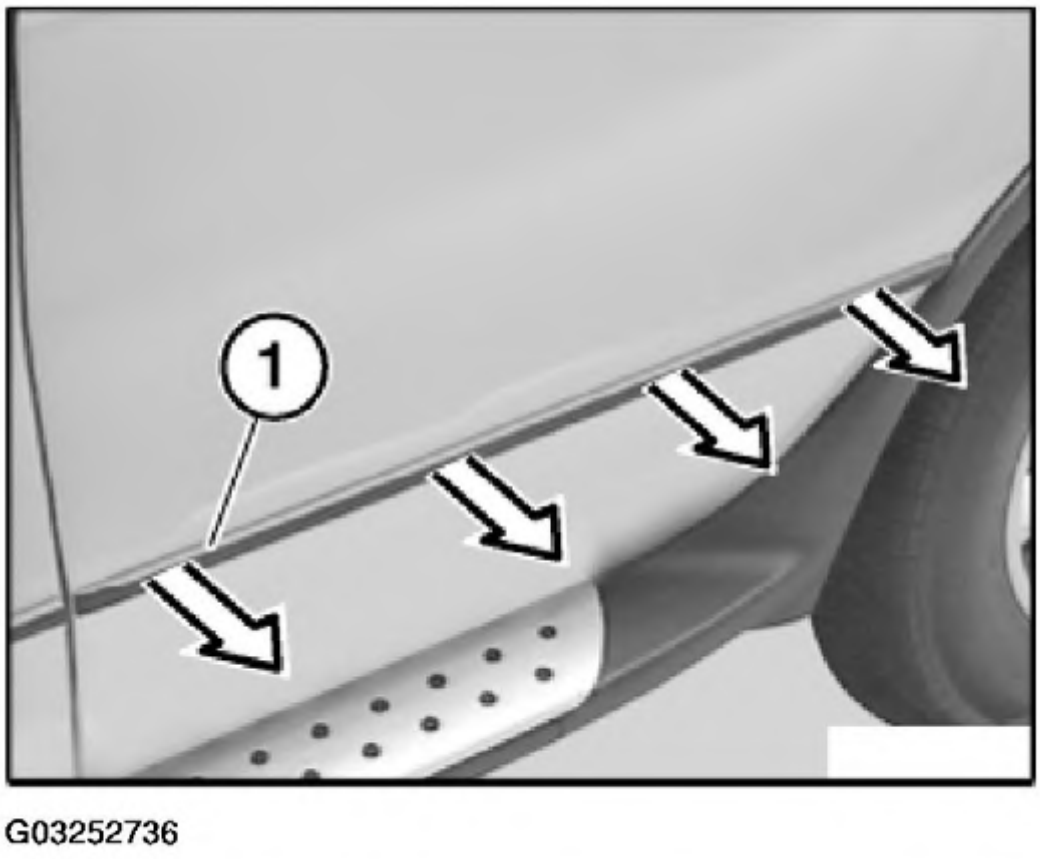


Fig. 74: Detaching Rubbing Strip (1)
Courtesy of BMW OF NORTH AMERICA, INC.

MIRRORS/COVERS/ASHTRAYS/SHELVES/TRAYS

51 16 ... CALIBRATING COMPASS IN INTERIOR REARVIEW MIRROR

NOTE: It may be necessary to alter the magnetic deflection zone if the vehicle is more than two ranges away from the set deflection zone.

For numbers of magnetic deflection zone, refer to Owner's Handbook.

If may be necessary to calibrate the compass if:

- vehicle battery has been disconnected for an extended period of time

- "C" appears in compass display
- there is no compass display

Setting magnetic deflection zone:

- Switch ignition on.
- Using a suitable tool (1), press pushbutton in area (A) of mirror (2) until a number appears in compass display (B)
- Press pushbutton repeatedly until number of desired zone appears
- Wait until direction display appears
- Magnetic deflection zone is now set

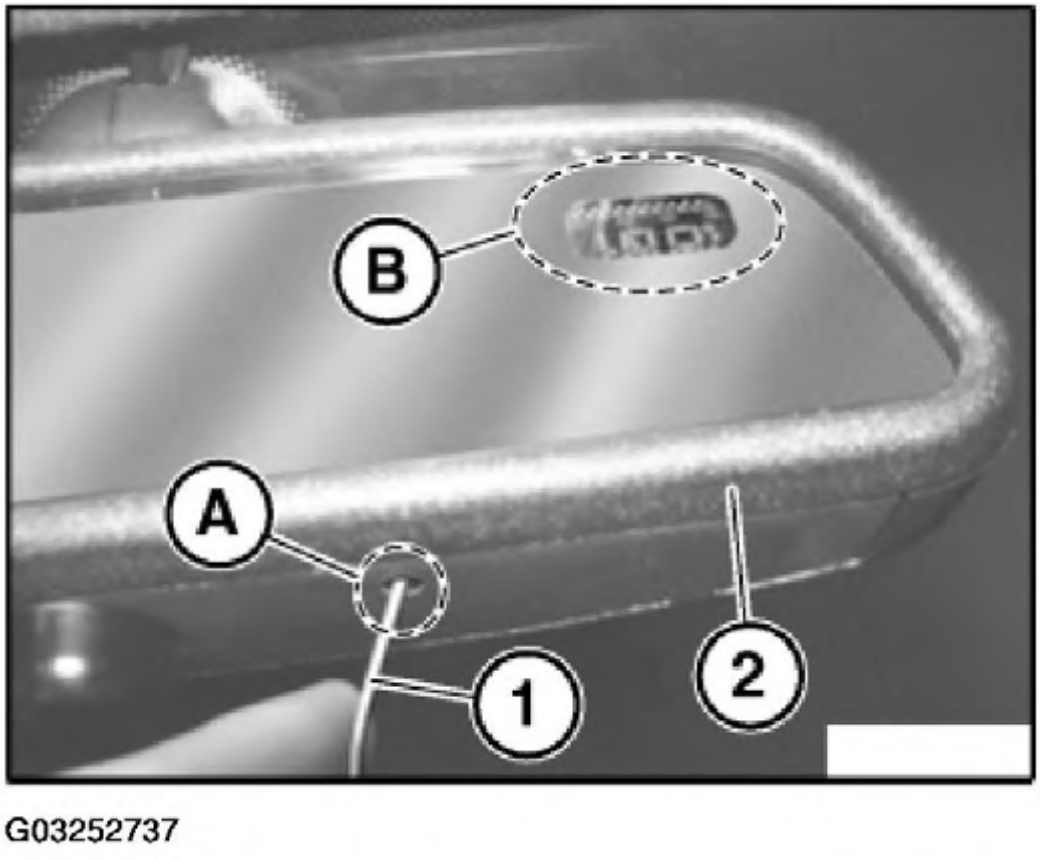


Fig. 75: Pressing Pushbutton In Area Of Mirror Until Number Appears In Compass Display
Courtesy of BMW OF NORTH AMERICA, INC.

Calibrating compass:

- Switch ignition on.
- Using a suitable tool (1), press pushbutton in area (A) of mirror (2) until "C" appears in compass display (B)
- Drive vehicle 2 to 3 times in a circle at approx. 10 mph
- Calibration process is completed when direction display appears

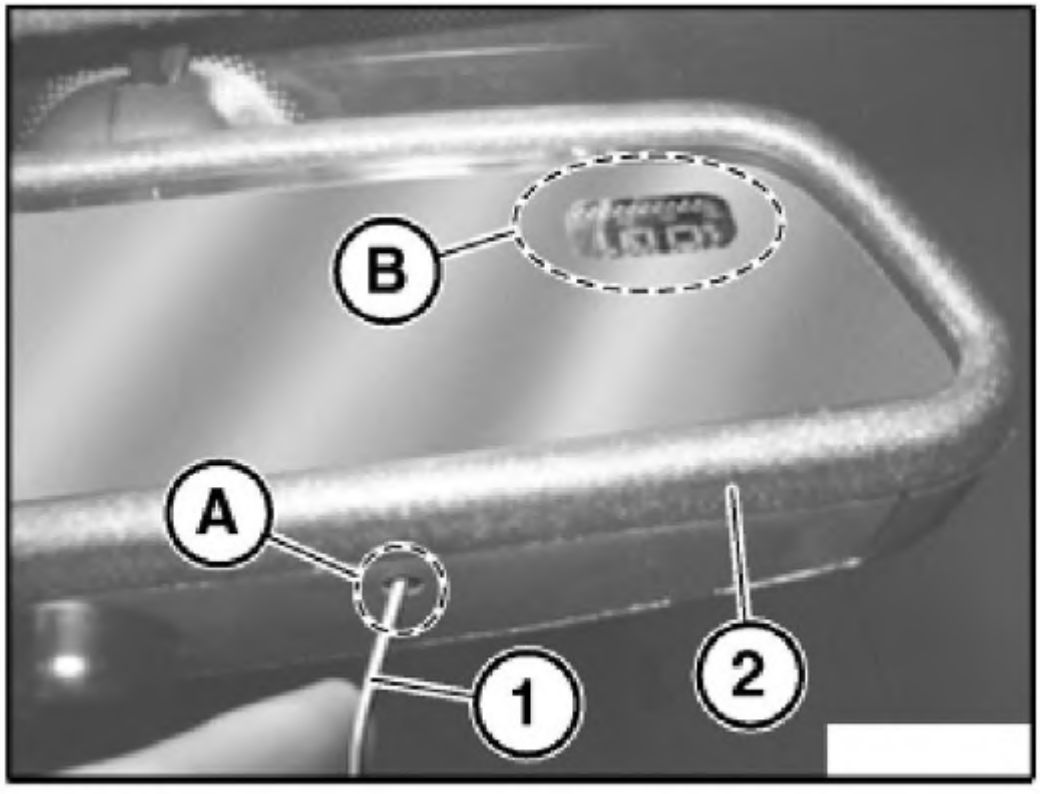


Fig. 76: Pressing Pushbutton In Area Of Mirror Until "C" Appears In Compass Display
Courtesy of BMW OF NORTH AMERICA, INC.

51 16 ... CEMENTING OF MIRROR BASE

Material Requirements:

Repair set for cementing of mirror base (Sourcing Reference: BMW Part)

Primer XW 775 (Sourcing Reference: BMW Part)

1. Preparations

   1.1 Cement at room temperature and make sure that, in cold weather, the window glass and base are brought to room temperature in the workshop long enough to prevent moisture forming on the surface.

   1.2 Mark location of the mirror mount on the outside of the windshield.

   Scratch off cement residue on glass and base with a sharp tool.

   1.3 Clean cement area on window and base with clean non-fluffing cloth and alcohol/acetone and allow to dry!

   Never use paint thinners!

2. Primer Coat

   Apply colorless, diluted primer to surface of windshield intended for cementing with help of cotton buds (Q-Tips or similar).

   Specified ventilation time at least 10 minutes, maximum 1 hour

3. Cement Coat

   3.1 Mixing Cement

   Trim off sealing tips on containers of cement and hardener using a knife.

   Make sure that both openings are equal in size, as otherwise there would be mistakes in mixing.

   The sealing cap for subsequent plugging of the double injector is located between both pistons of the injector. Break off sealing cap.

   The required amount of cement and hardener is removed by applying light pressure on the pistons.

   The mixing ratio for cement and hardener is 1 : 1 (weight and volume). It is important that the same volumes of cement and hardener are removed (increase size of openings if necessary).

   Both components react chemically with each other. Thorough, intensive and homogenous mixing is a requirement for this reaction and for the quality of cementing.

   Consequently both components must be mixed in such a way that there is a uniform, ream-free color mixture.

   3.2 Application

   At 20 ... 25 °C the mix can be processed after approx. 5 ... 10 minutes (pot time).

   Apply thin (approx. 0.5 mm), uniform coat of cement on base with spatula and press base onto

glass in such a way that cement obtains good contact with windshield across the entire surface area.

NOTE: The temperature for the hardening process should not be lower than +18 °C.

3.3 Fixing Bonded Parts

Epoxy resin cement does not have an initial strength property. It is therefore necessary to fix all bonded parts (cement tape or similar). The joining and fixing of bonded parts must be accomplished within the potlife). Check that the arresting button is located correctly on the mirror base to ensure that the mirror, when it is attached, is seated straight.

(Long side of mirror base hexagon parallel to upper edge of window).

3.4 Hardening of cement

Hardening speed depends on the ambient temperature.

For this reason, the mirror base must be secured with adhesive tape or similar for at least 3 ... 4 hours.

After 12 hours have elapsed, clip mirror into place as soon as possible.

4. Working Hygiene

CAUTION: Cement is dangerous for health when vapors are inhaled or through contact with the skin.

As is the case for all epoxy resins, sensitive persons might be confronted with an allergy through contact with the skin.

If the product gets on the skin, wash off with soap and water immediately.

If it gets in an eye, rinse the eye thoroughly in water and consult doctor.

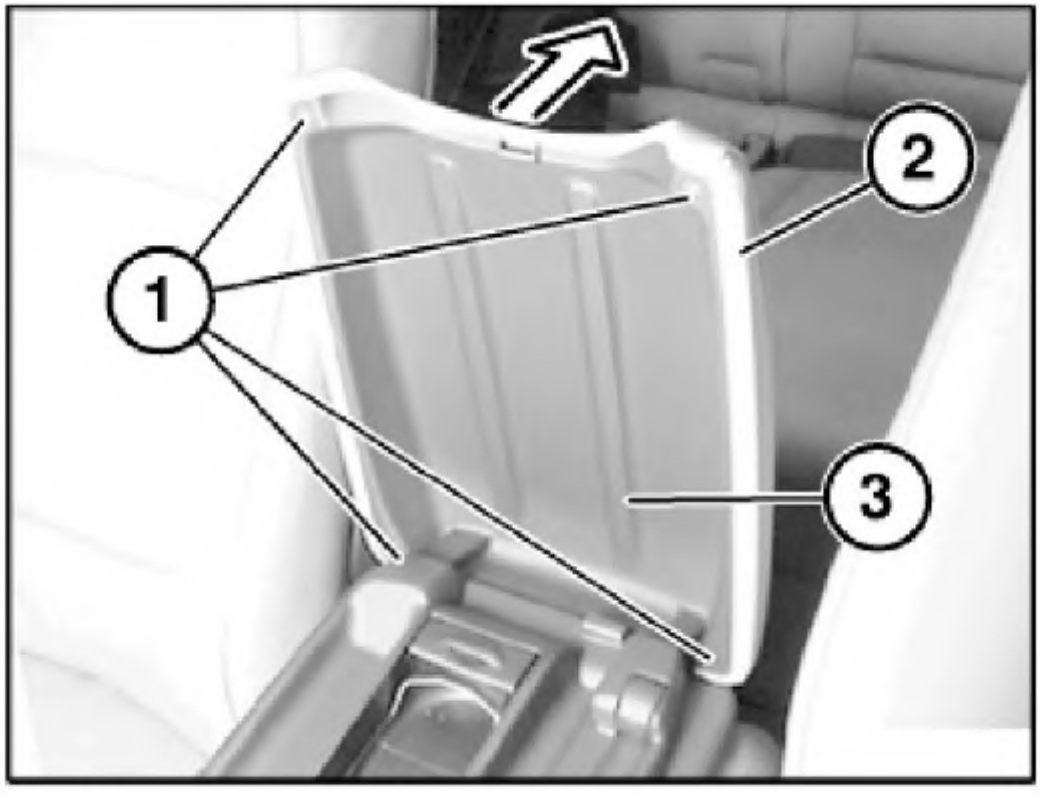
Make sure that the room is well ventilated and gloves are worn for the application of cement.

51 16 ... REMOVING AND INSTALLING/REPLACING ARMREST ON COVER ON CENTER ARMREST

Open cover (3).

Lever out covers (1) and release screws underneath.

Detach armrest (2) from cover (3) for center armrest.



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Fig. 77: Detaching Armrest From Cover For Center Armrest
Courtesy of BMW OF NORTH AMERICA, INC.

51 16 ... REMOVING AND INSTALLING/REPLACING CENTER ARMREST SLIDING UNIT

Necessary preliminary tasks:

- Remove rear compartment fresh air grill.

Release screws (1).

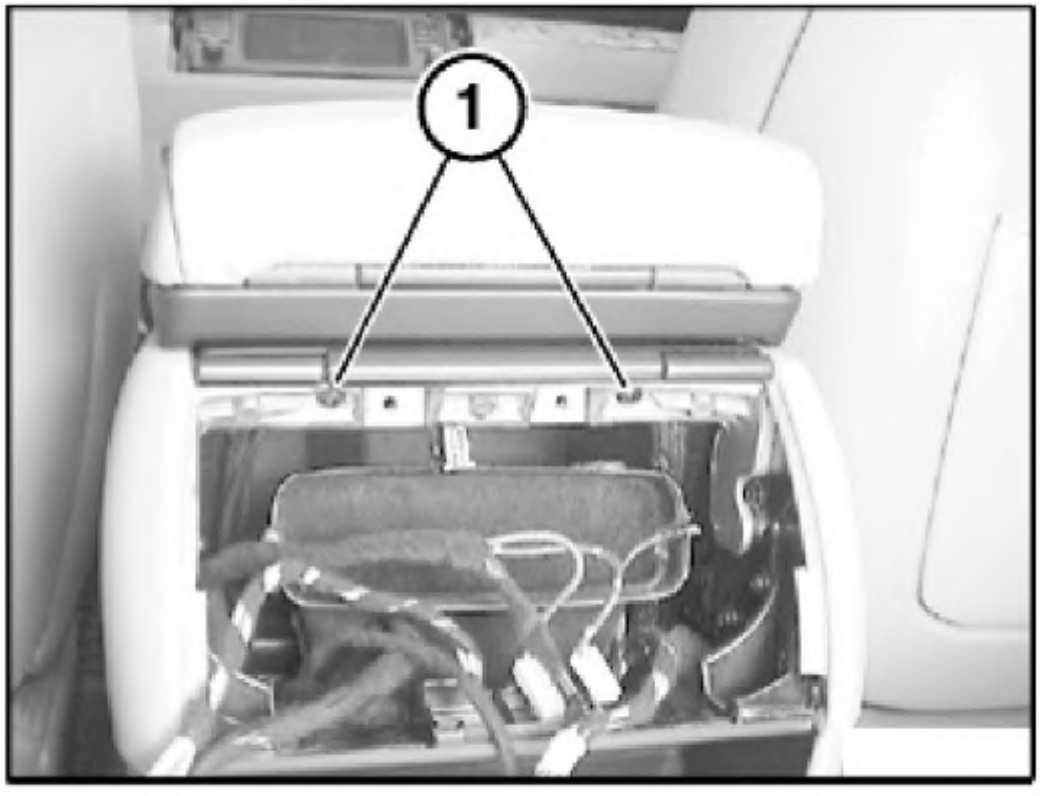


Fig. 78: Removing Rear Compartment Fresh Air Grill
Courtesy of BMW OF NORTH AMERICA, INC.

Version without eject box:

Open center armrest (1) and remove storage tray (2) at same time.

Replacement:

Remove armrest from cover on center armrest.



Fig. 79: Removing Armrest From Cover On Center Armrest
Courtesy of BMW OF NORTH AMERICA, INC.

Version with eject box:

- Disconnect plug connection(s) for eject box

If necessary, detach plug connection (1) with holder from center armrest (2).

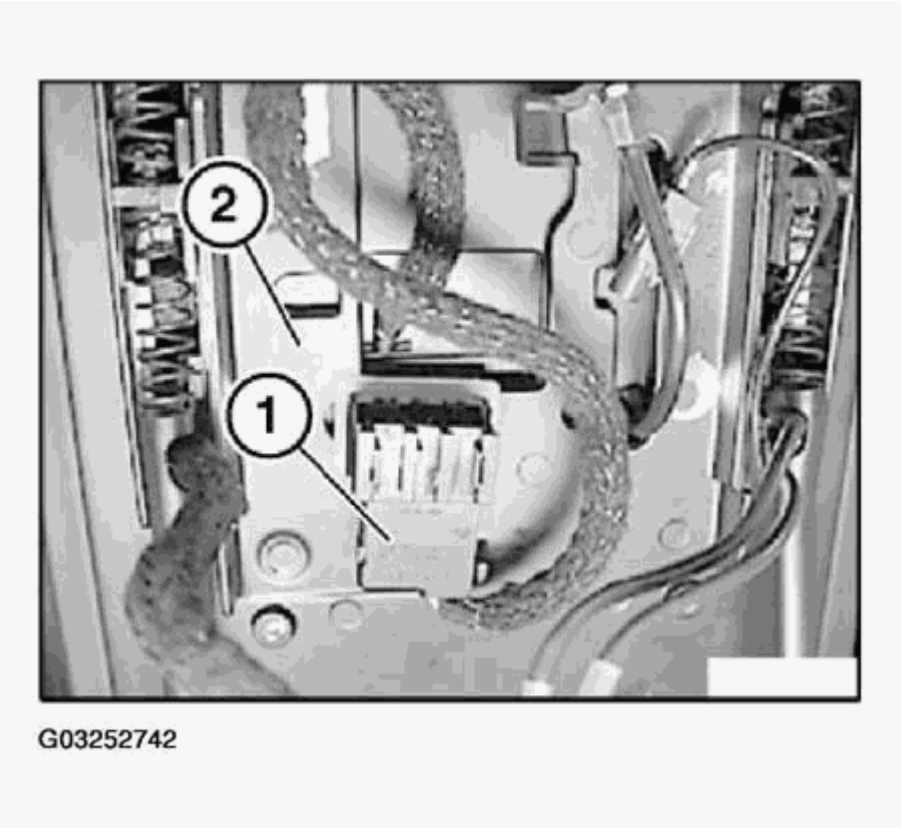


Fig. 80: Disconnecting Plug Connection For Eject Box
Courtesy of BMW OF NORTH AMERICA, INC.

Remove both springs (1) on left/right from center armrest (2).

Installation:

Ensure ends of springs are in correct position.

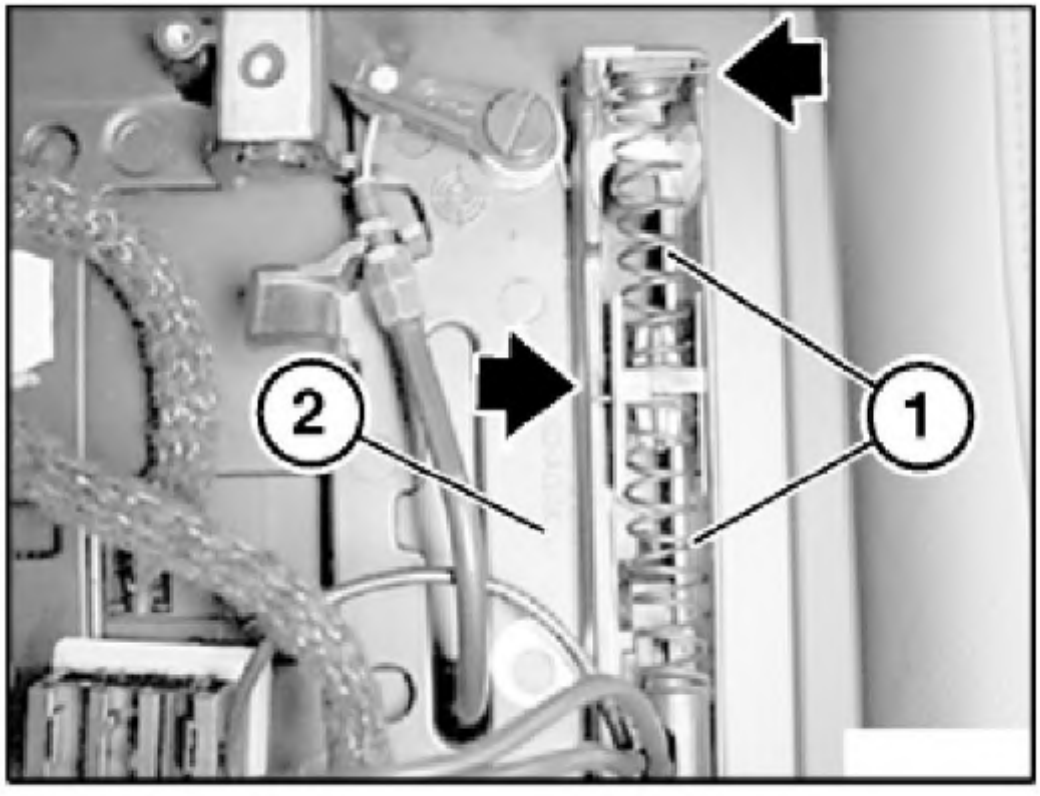


Fig. 81: Removing Both Springs On Left/Right From Center Armrest
Courtesy of BMW OF NORTH AMERICA, INC.

Raise center armrest and drive out split pin (1) on left/right from inside outwards.

Installation:

Fit split pin (1) with notch facing outwards in hinge (2).

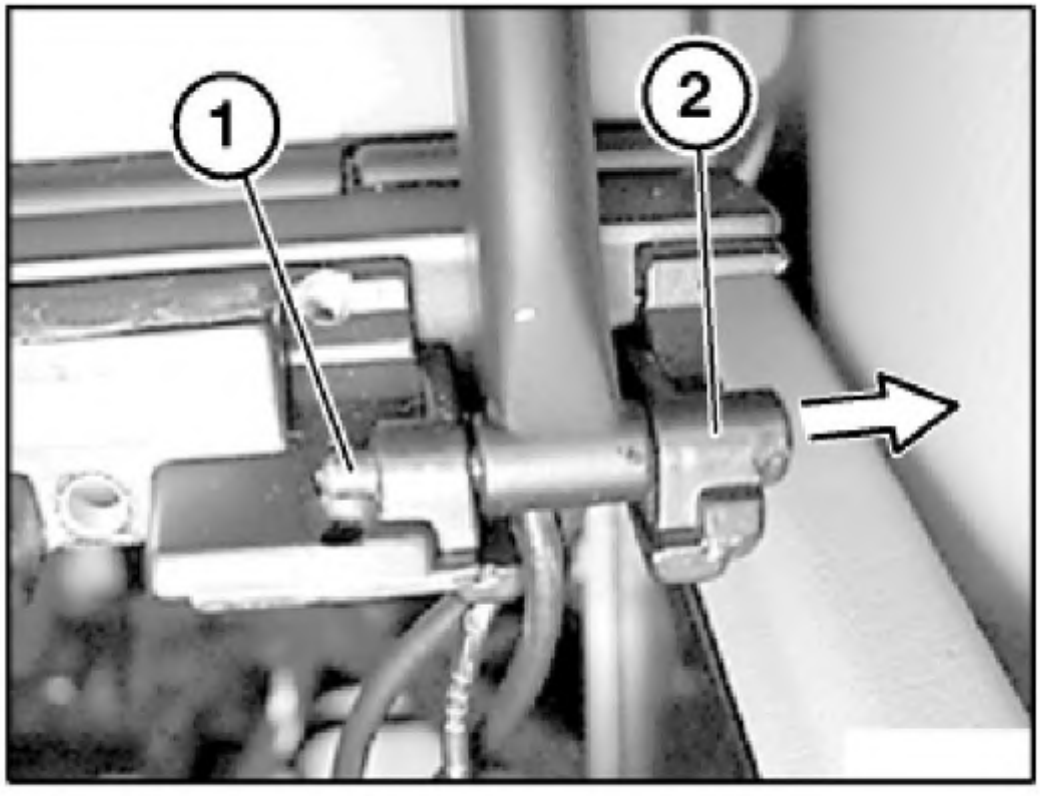


Fig. 82: Fitting Split Pin With Notch Facing Outwards In Hinge
Courtesy of BMW OF NORTH AMERICA, INC.

Pull swivel arms (1) forwards.

Lever out trim(s) (2) and feed cable (3) out of swivel arms (1).

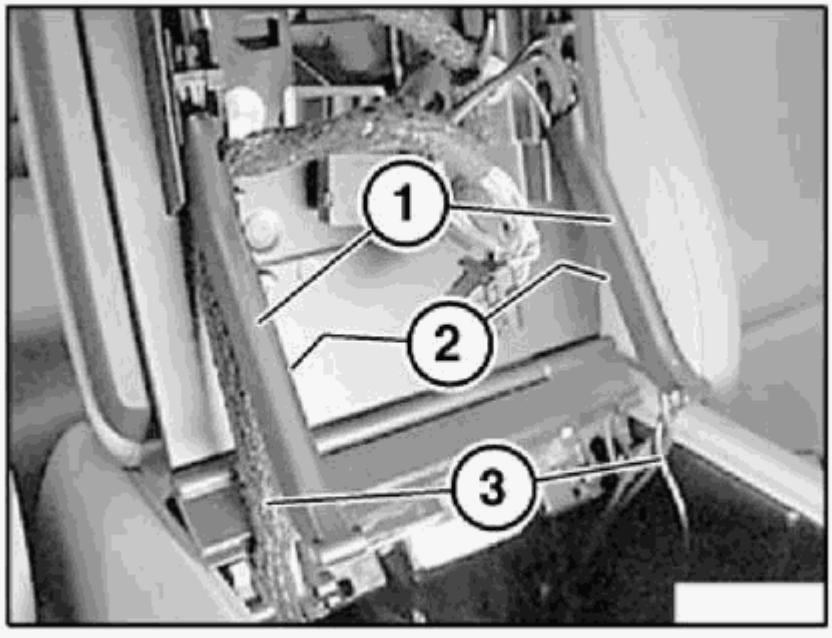


Fig. 83: Pulling Swivel Arms Forwards
Courtesy of BMW OF NORTH AMERICA, INC.

Remove center armrest (1) from storage tray (2).

Replacement:

Remove armrest from cover on center armrest.

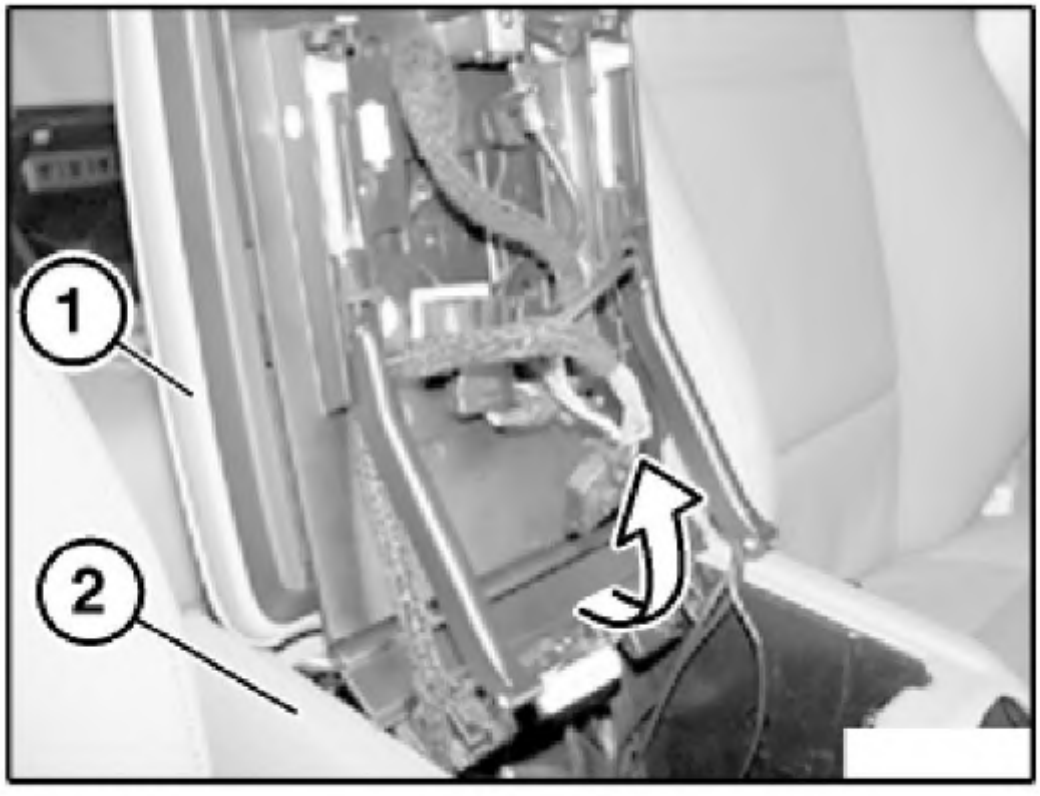
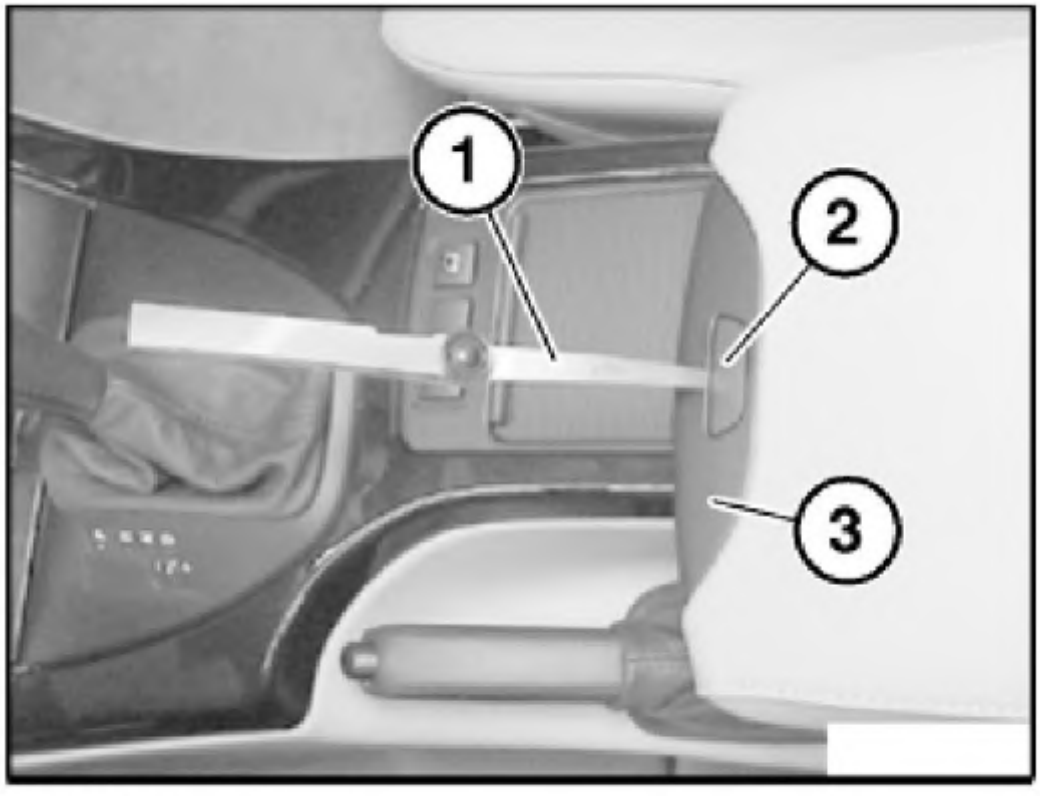


Fig. 84: Removing Armrest From Cover On Center Armrest
Courtesy of BMW OF NORTH AMERICA, INC.

51 16 ... REPLACING BUTTON FOR ARMREST IN CENTER CONSOLE

NOTE: 0.40 mm feeler gauge required.

Insert feeler gauge (1) between pushbutton (2) and housing (3).



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Fig. 85: Inserting Feeler Gauge Between Pushbutton And Housing
Courtesy of BMW OF NORTH AMERICA, INC.

Press feeler gauge (1) downwards until pushbutton (2) snaps out upwards slightly.

Remove feeler gauge (1).

Lever out pushbutton (2) sideways and remove from housing (3).

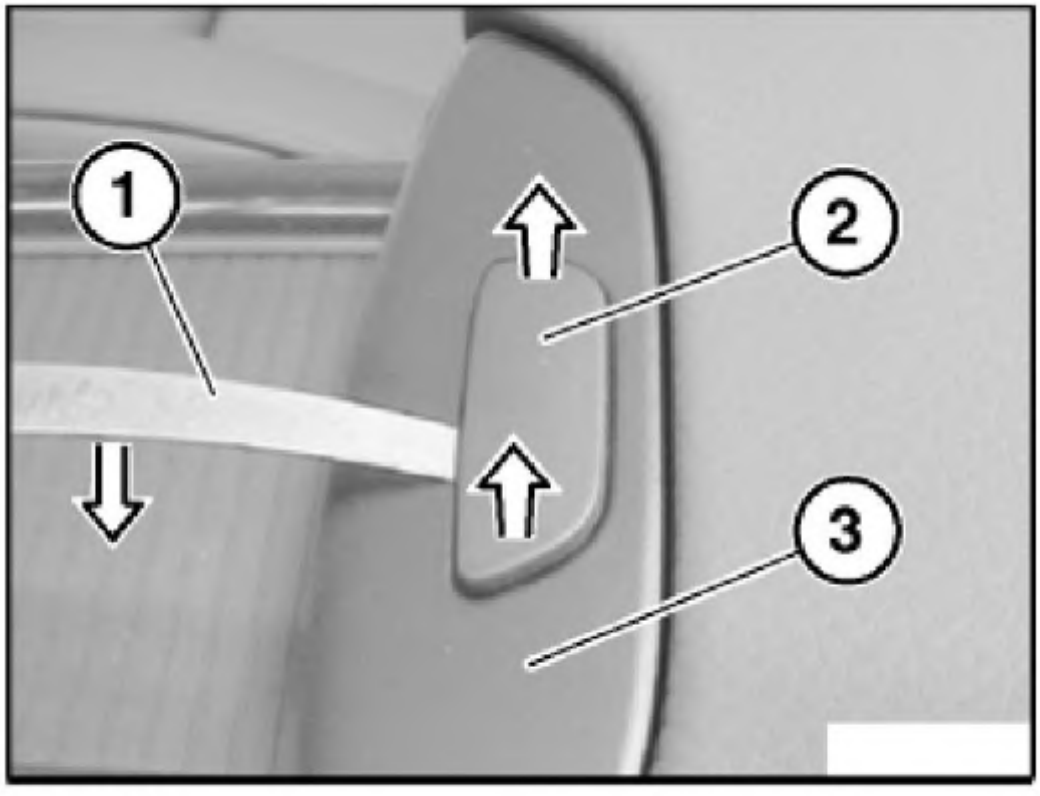
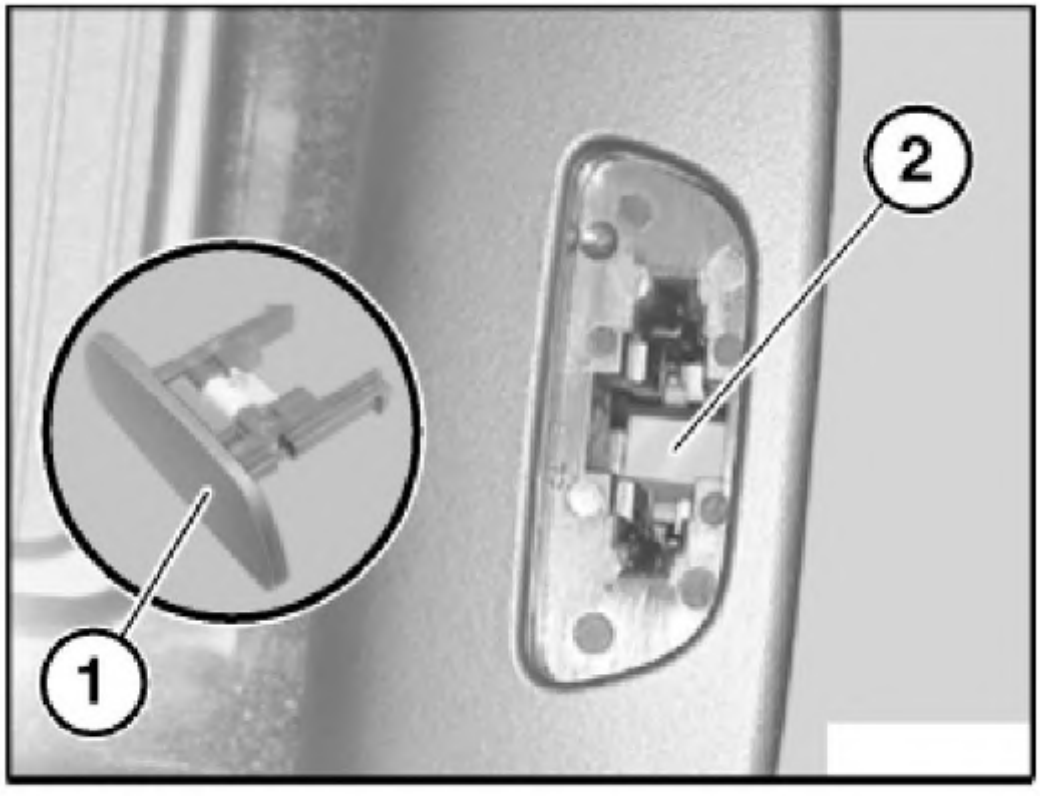


Fig. 86: Removing Feeler Gauge
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Pushbutton (1) must not be damaged.

If necessary, vacuum out duct (2).



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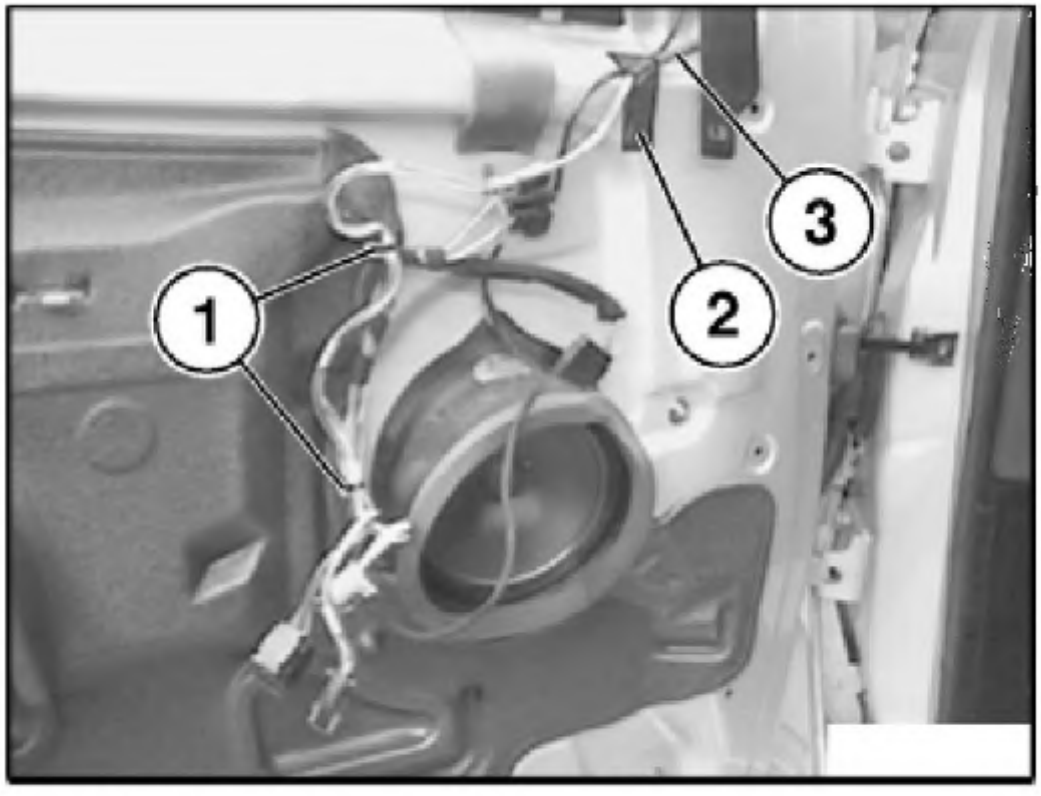
Fig. 87: Checking Pushbutton
Courtesy of BMW OF NORTH AMERICA, INC.

51 16 000 REMOVING AND INSTALLING/REPLACING MIRROR ON LEFT OR RIGHT FRONT DOOR

Remove speaker in window frame of front door.

Unfasten cable clip (1).

Pull off adhesive tape (2) and expose wire (3).



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Fig. 88: Pulling Off Adhesive Tape And Expose Wire
Courtesy of BMW OF NORTH AMERICA, INC.

Lever out cover (1) and release screw underneath.

Pull cover (3) to one side.

Release screw (5) and detach mirror (4) with cable (2).

Installation:

Tightening torque, see 51 16 1AZ in **BODY EQUIPMENT - TIGHTENING TORQUES** .

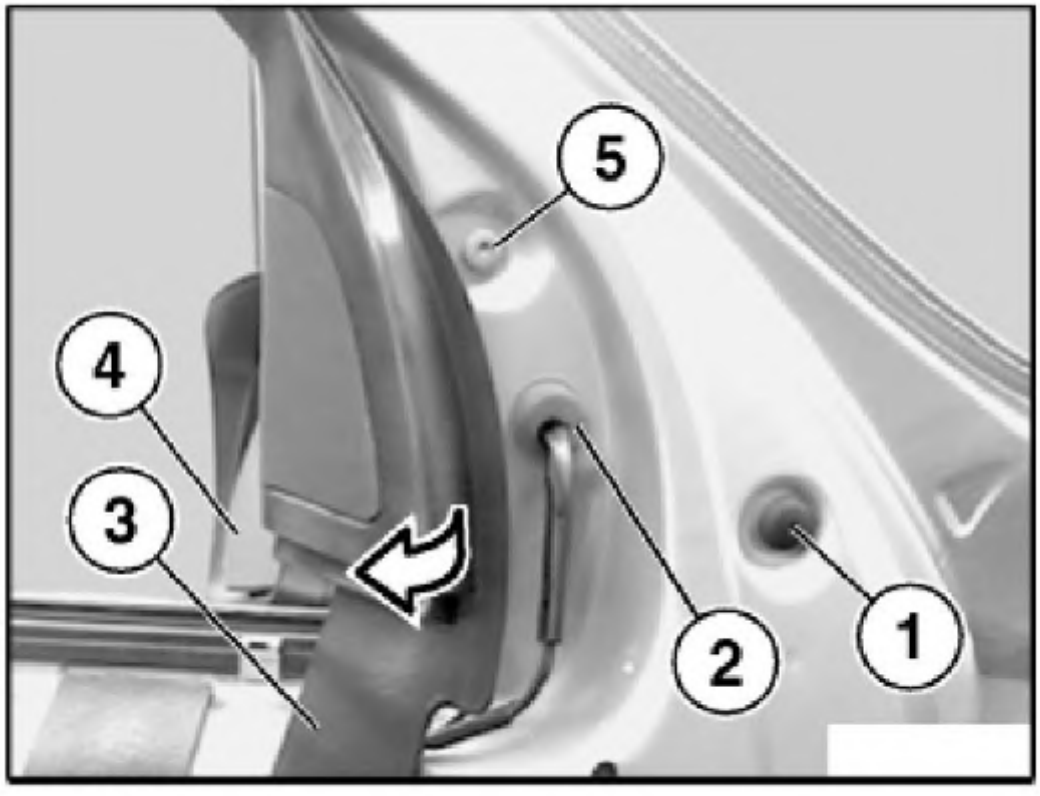


Fig. 89: Releasing Screw And Detaching Mirror With Cable
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Install mirror base with seal (1) and sound insulation (2).

Carry out function check.

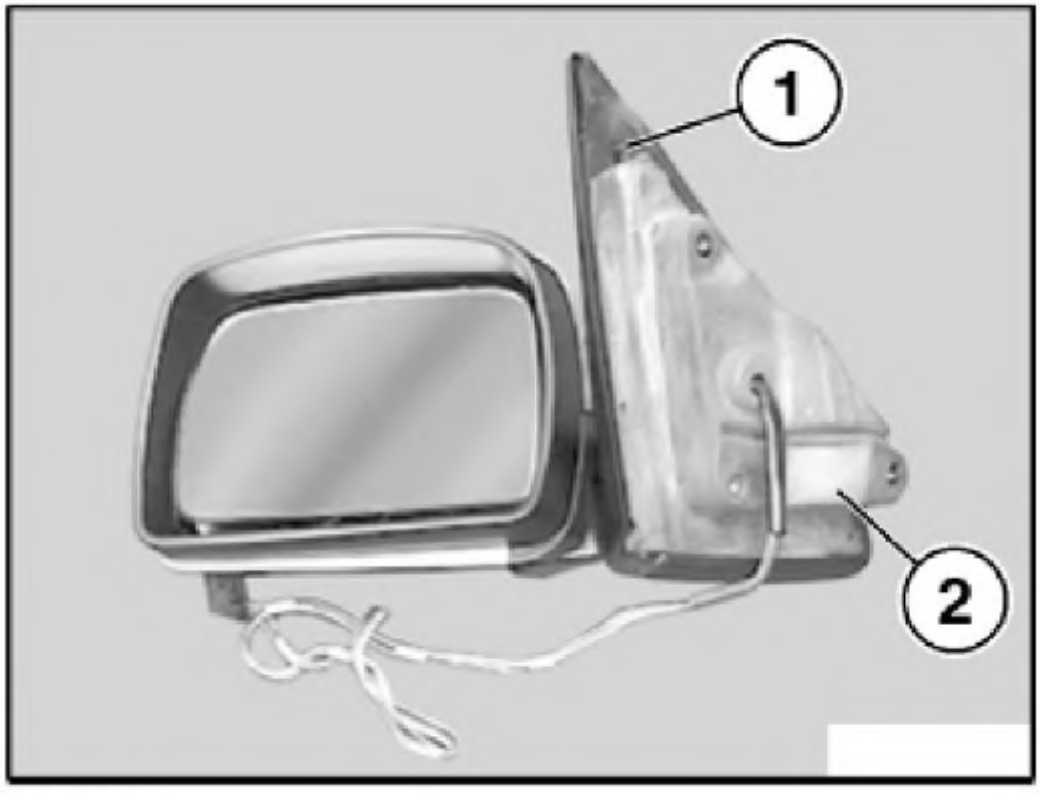


Fig. 90: Installing Mirror Base With Seal
Courtesy of BMW OF NORTH AMERICA, INC.

51 16 026 REPLACING MIRROR GLASS FOR REAR-VIEW MIRROR (ON FRONT DOOR)

**CAUTION: Bring car to room temperature so that clips do not break off.
Press mirror glass at lower edge forwards as far as it will go.**

Tape off mirror glass and housing edge with plastic adhesive tape (1) (sourcing reference: BMW Part) (risk of damage).

Push mirror glass with special tool 00 9 318 (universal wedge) upwards.

Carefully remove mirror glass towards rear and if necessary disconnect plug connection for mirror heater and/or automatic anti-glare control.

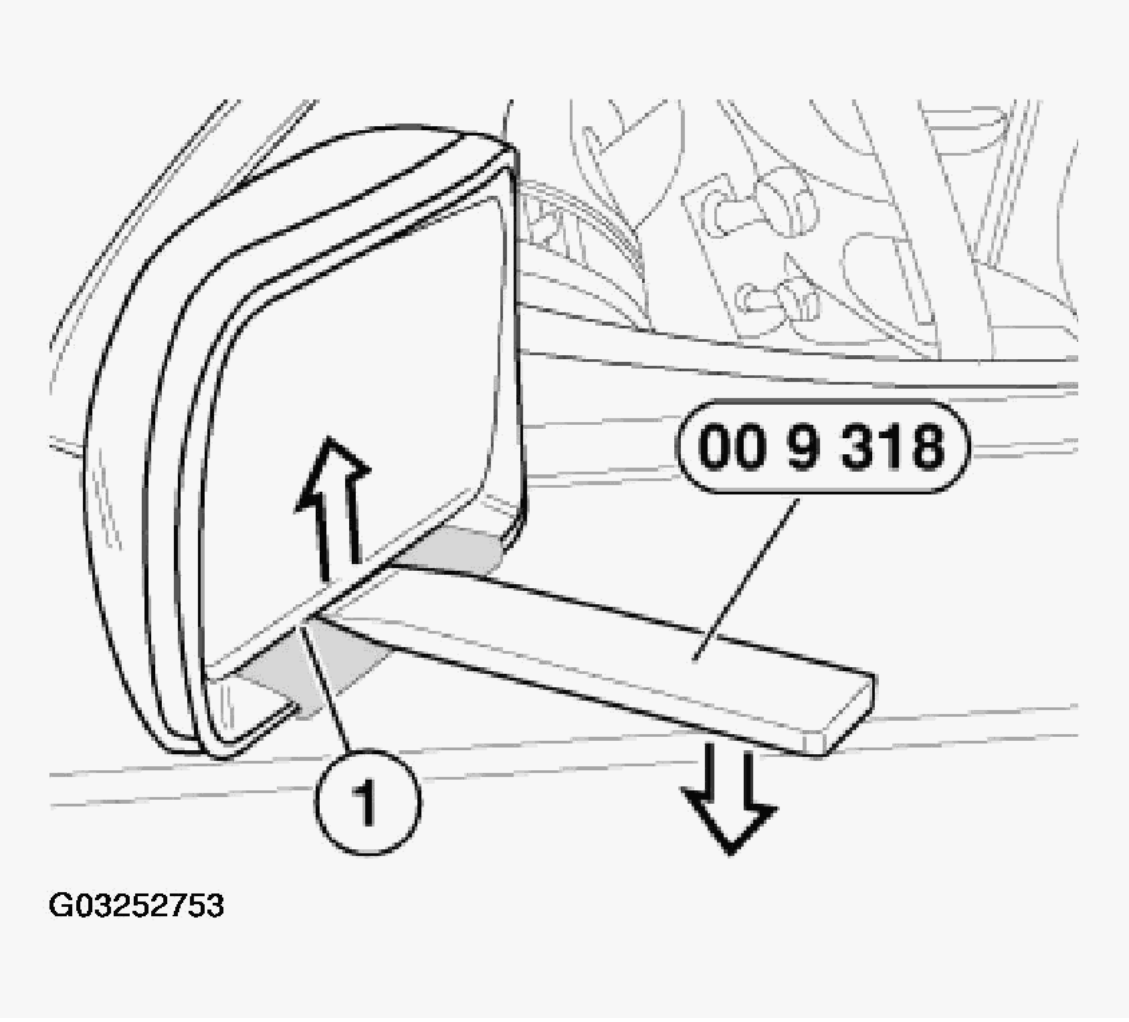
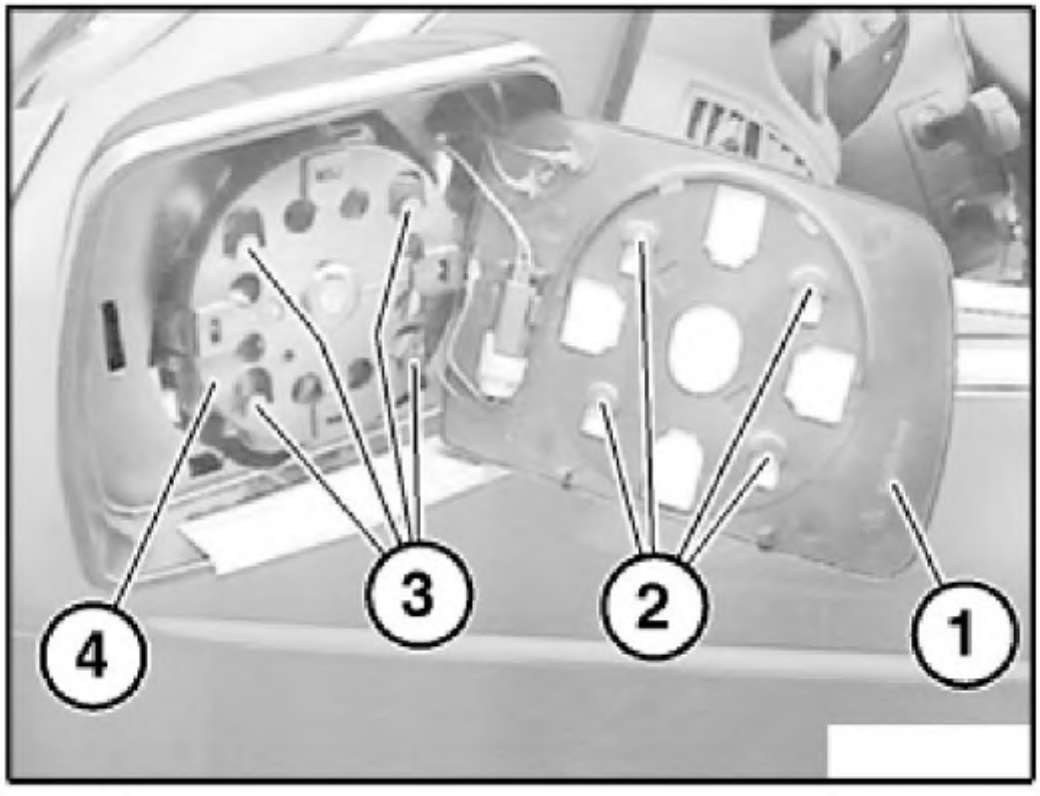


Fig. 91: Pushing Mirror Glass With Special Tool
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Position mirror glass (1) with mounts (2) on guides (3) and push downwards.

Carry out function check.



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Fig. 92: Positioning Mirror Glass With Mounts On Guides
Courtesy of BMW OF NORTH AMERICA, INC.

51 16 040 REMOVING AND INSTALLING/REPLACING HOUSING ON LEFT OR RIGHT DOOR MIRROR

Tilt door mirror forwards a little.

NOTE: Only grip the innermost area (1) on the drainage groove of the mirror cap; otherwise the inside catch would be damaged.

Unlock mirror (1) cap from mirror foot (2).

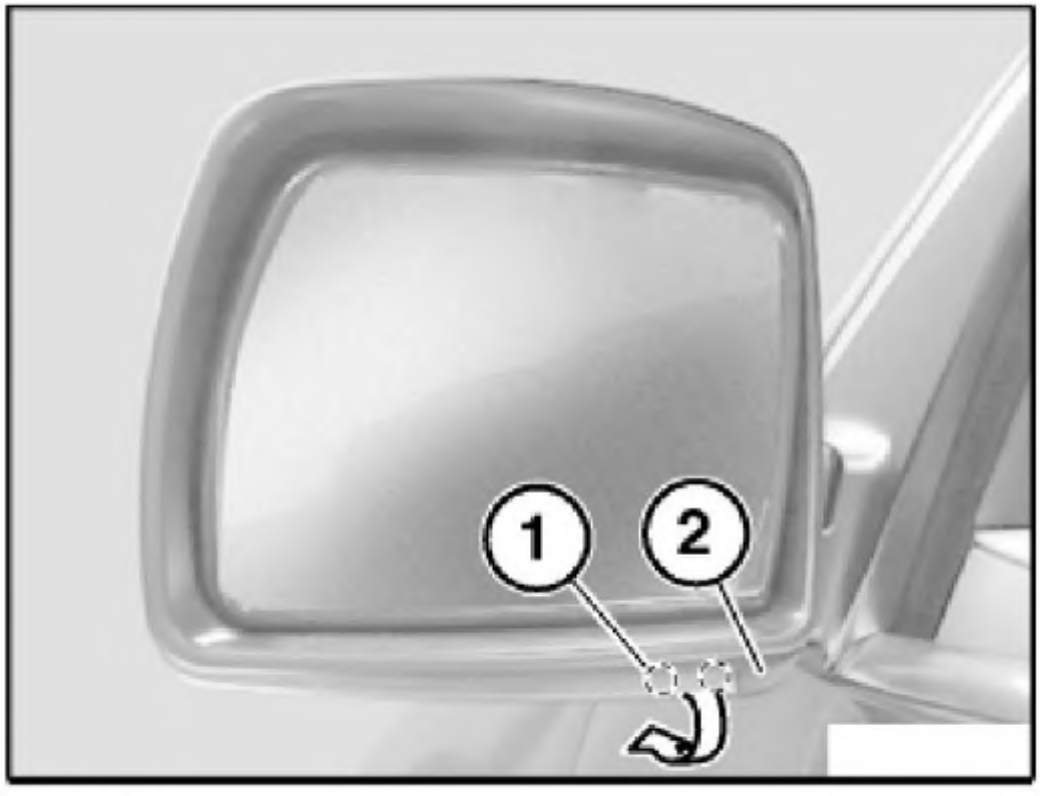


Fig. 93: Unlocking Mirror Cap From Mirror Foot
Courtesy of BMW OF NORTH AMERICA, INC.

Unfasten mirror cap (1) forwards/upwards until light (2) is accessible.

Disconnect plug-in connection (3).

Turn mirror cap (1) forwards/upwards and remove from mirror foot (4).

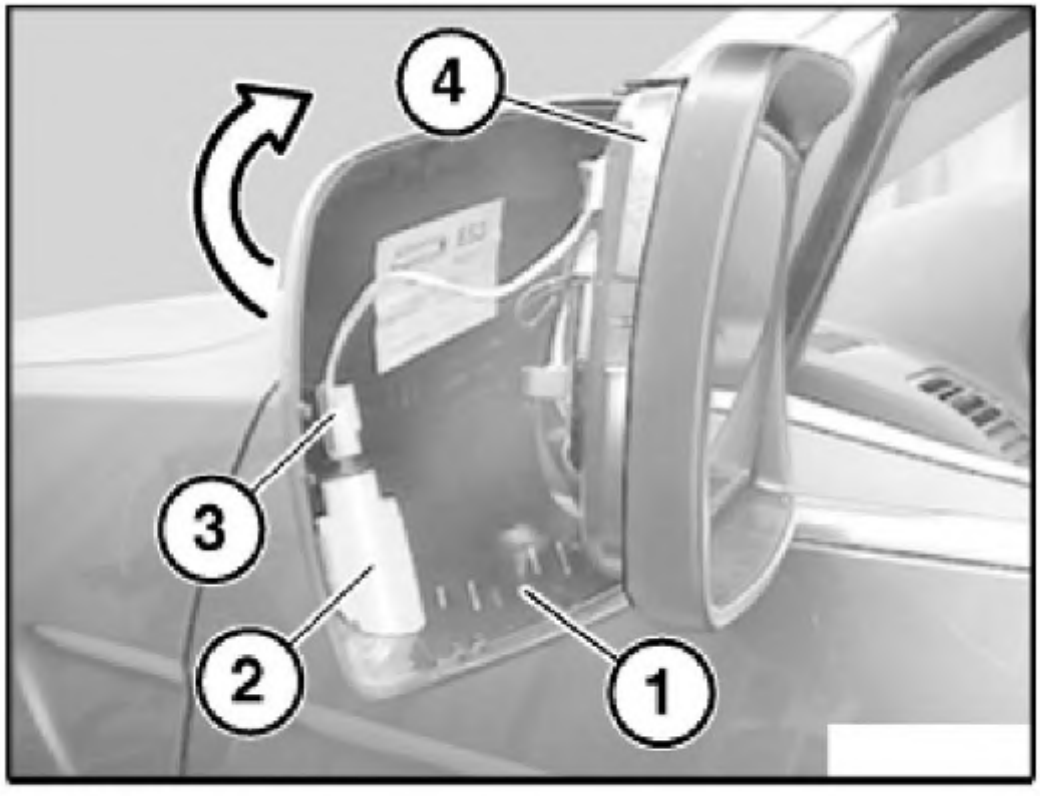


Fig. 94: Disconnecting Plug-In Connection
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Catches (1) on mirror cap must not be damaged.

Only replace:

Turn bulb holder (2) clockwise and detach from socket housing (3).

Check function.

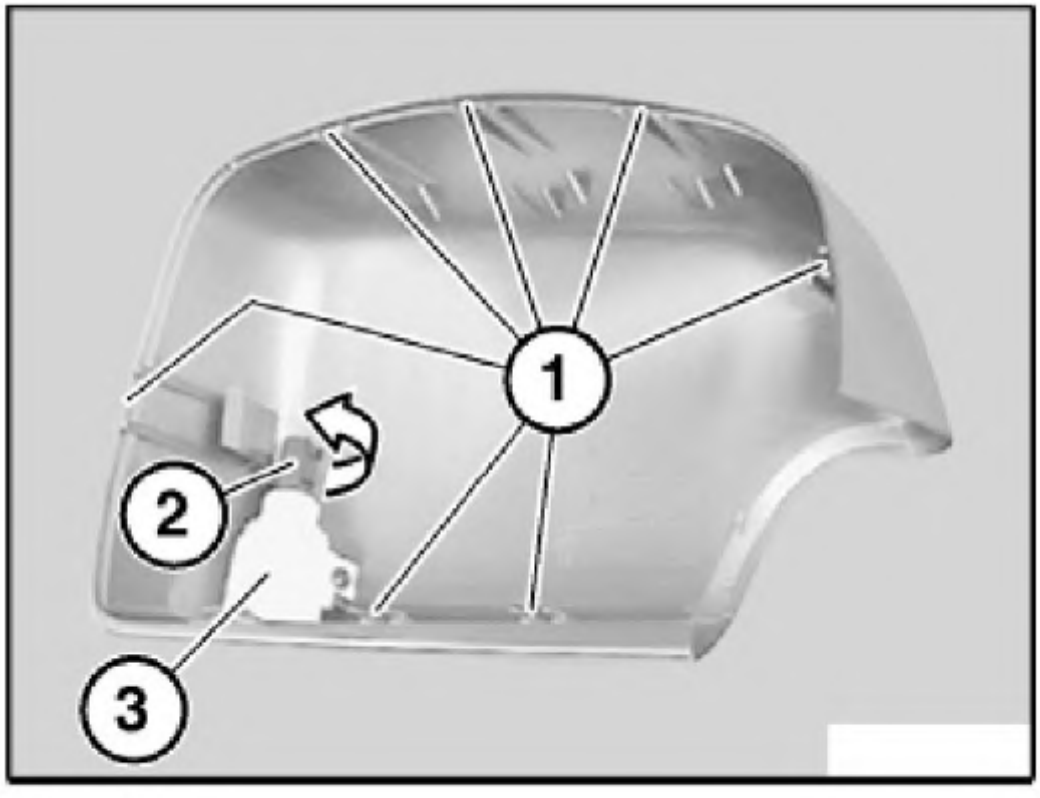


Fig. 95: Checking Function
Courtesy of BMW OF NORTH AMERICA, INC.

Unlock catches (1) and detach mirror ring (2) from mirror foot (3).

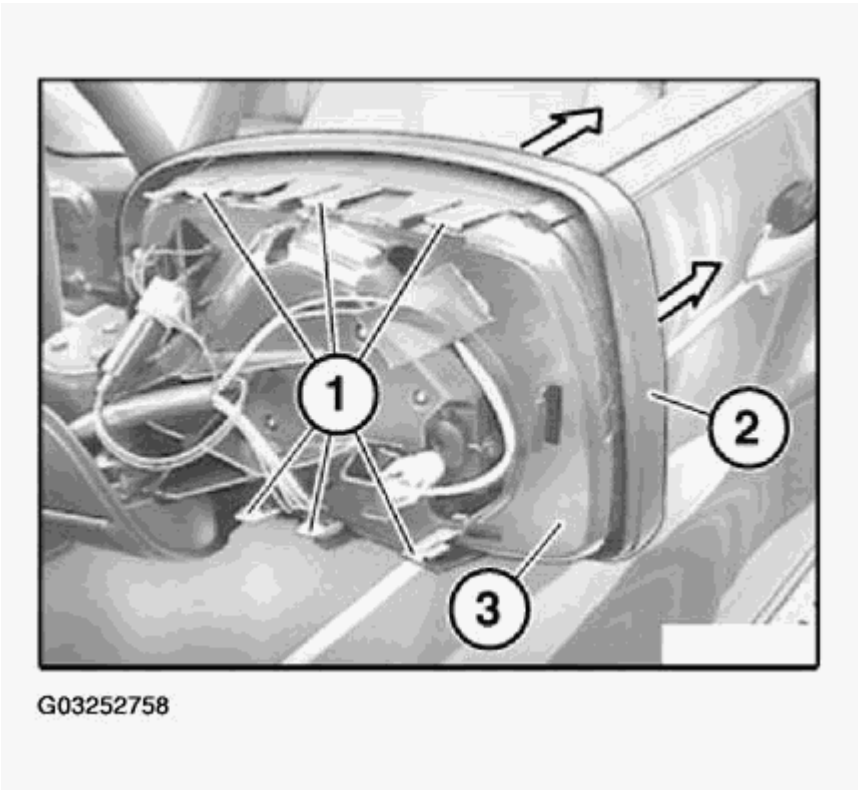


Fig. 96: Detaching Mirror Ring From Mirror Foot
Courtesy of BMW OF NORTH AMERICA, INC.

Catches (1) on mirror ring (2) must not be damaged.

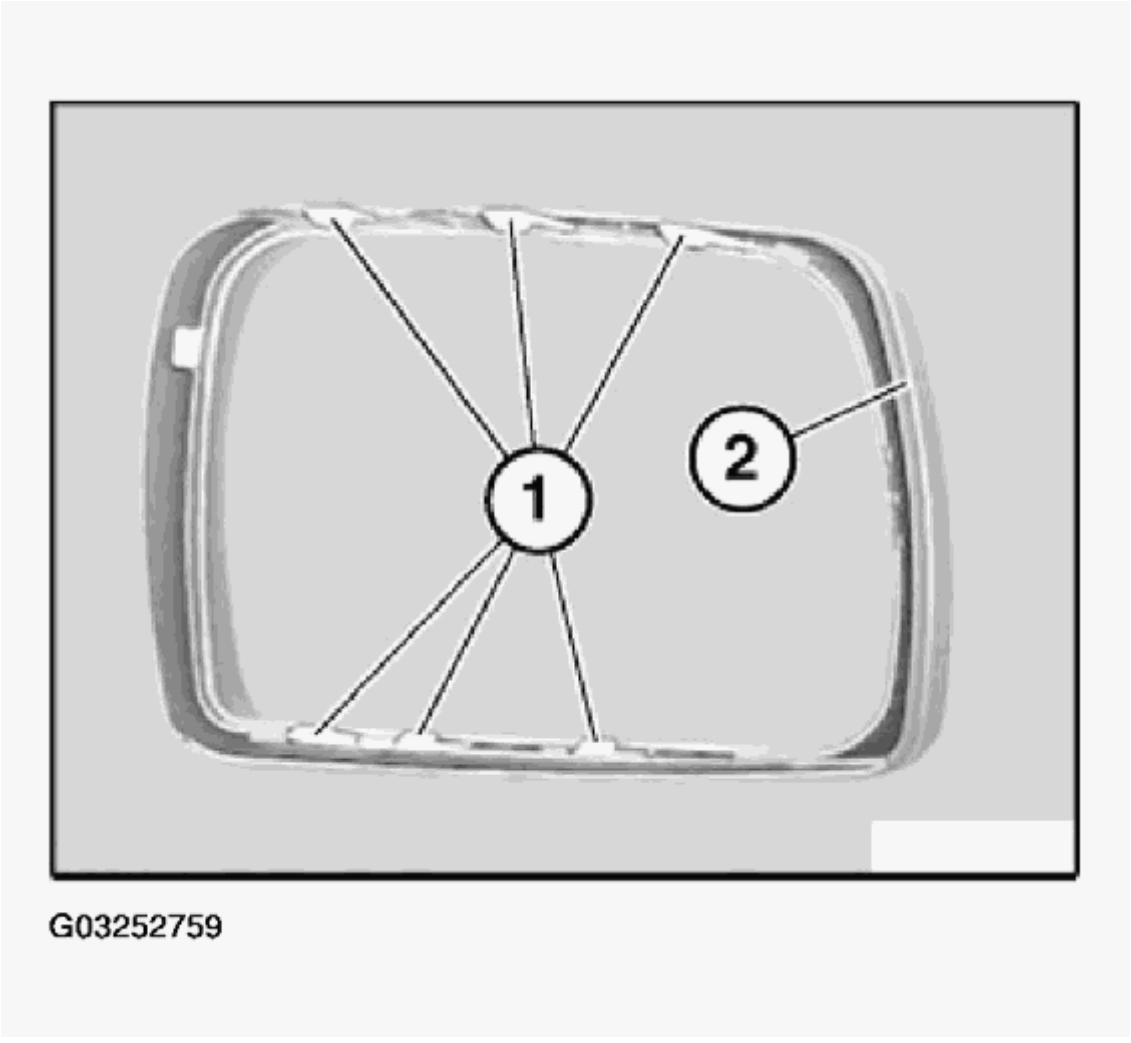


Fig. 97: Checking Catches On Mirror Ring
Courtesy of BMW OF NORTH AMERICA, INC.

51 16 060 REMOVING AND INSTALLING OR REPLACING INTERIOR REARVIEW MIRROR

NOTE: On version with remote control for central locking:
If necessary, disconnect negative lead from battery.
On version with compass:
Check compass function after disconnecting mirror plug connection or battery or after replacement.
If necessary, calibrate compass in interior rearview mirror.

NOTE: There are five different versions of the interior rearview mirror:

A. Version without cable (X) with full foot. See **51 16 060 REMOVING AND INSTALLING/REPLACING INTERIOR MIRROR WITH FULL FOOT** .
B. Version with cable (X) and with plug cover. See **Removal Of Version (B):**

C. Version without cable (X) and with mirror arm end caps. See **Removal Of Versions (C) And (D):**
D. Version with cable (X) and with mirror arm end caps. See **Removal Of Versions (C) And (D):**
E. Version with rain sensor and with mirror arm end caps. See **Removal Of Version (E) With Rain Sensor:**

Version with cable (X) for:

- Automatic dim action (electro-chrome technology) for interior rearview mirror
- Fogging sensor
- Remote control (infrared or radio)
- Garage door opener
- Compass
- Rain sensor

IMPORTANT: Do not snap out the interior rearview mirror (1) towards the rear (windscreen breakage).

Do not under any circumstances twist the interior rearview mirror when removing.

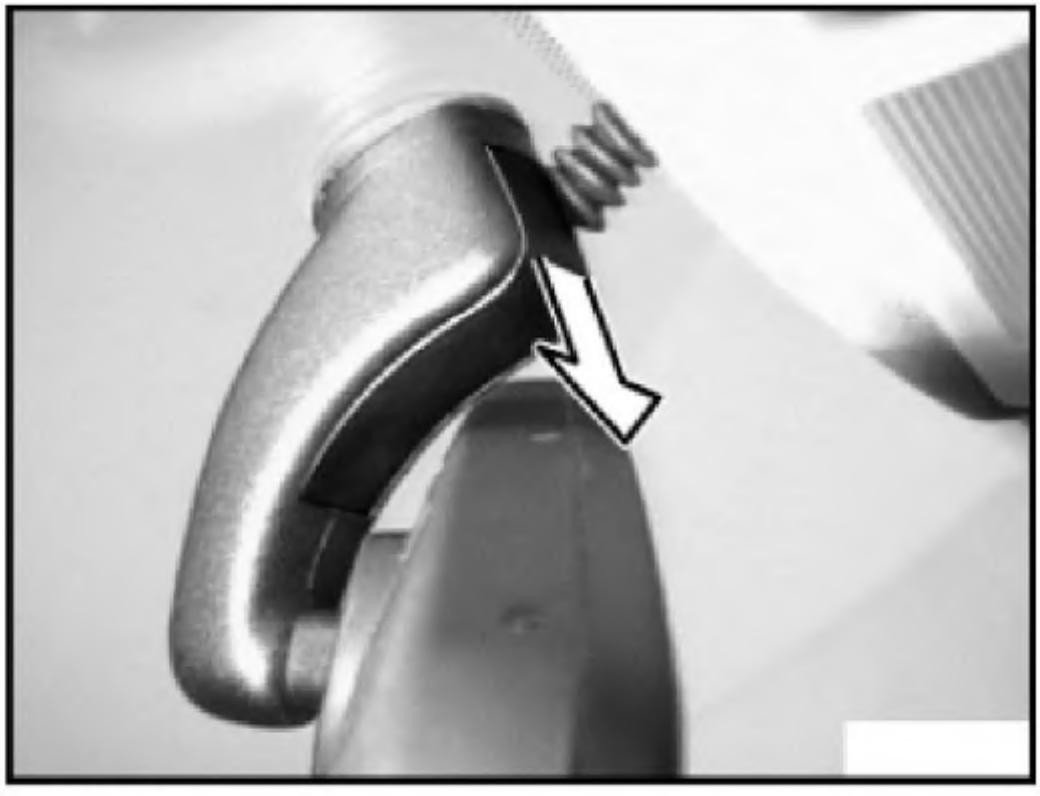
Twisting the mirror off the mirror mount will damage the rear catch.

If the rear catch is damaged, the mirror will be loose when installed and must be replaced.

Removal Of Version (B):

Version with automatic dim action (electro-chrome technology) for interior mirror and/or remote control:

Lever out plug cover and disconnect plug connection.



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Fig. 98: Disconnecting Plug Connection
Courtesy of BMW OF NORTH AMERICA, INC.

IMPORTANT: Do not remove interior mirror (1) towards rear or by twisting (risk of damage).

Snap out interior mirror (1) from mirror mount towards front by striking with ball of thumb and remove.

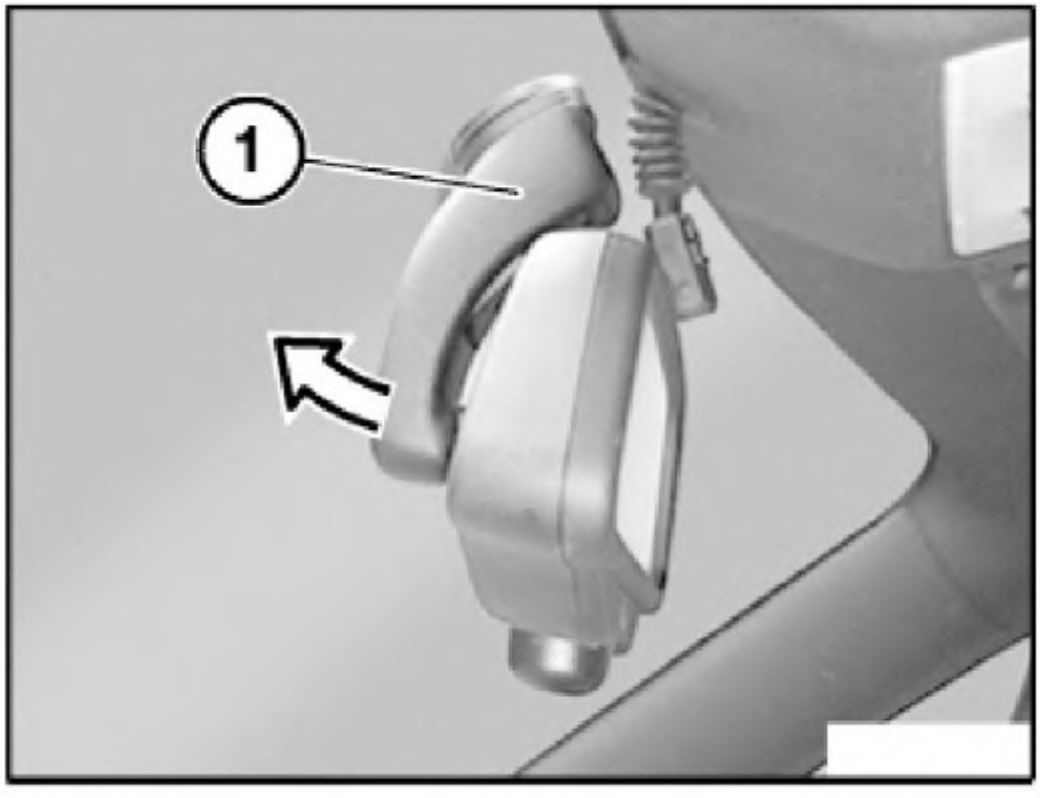


Fig. 99: Snaping Out Interior Mirror From Mirror Mount Towards Front
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

1. Twist mirror foot by approx. 45° and fit to mirror mount.
2. Turn mirror foot until it engages on mirror base.

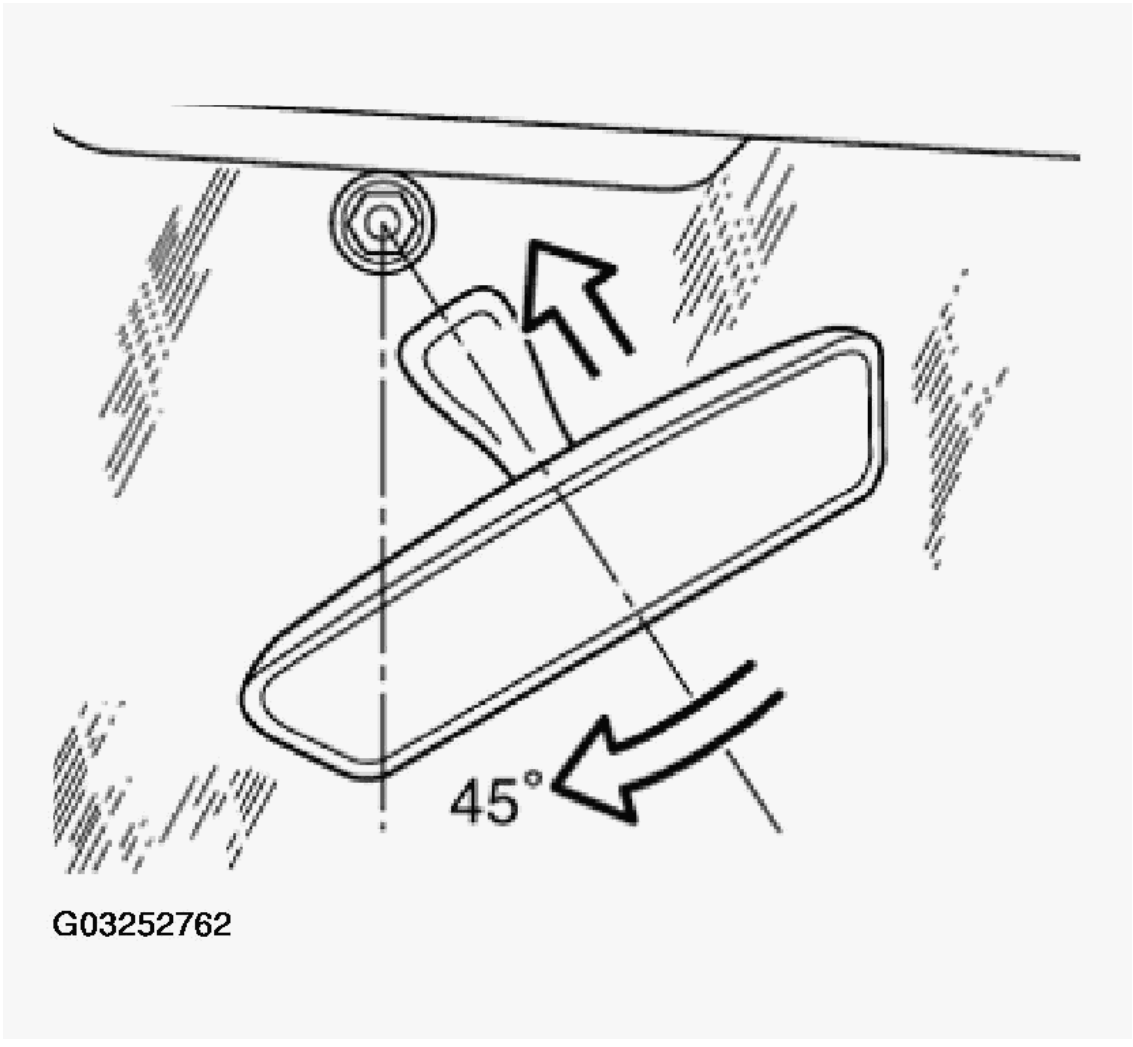


Fig. 100: Fitting To Mirror Mount
Courtesy of BMW OF NORTH AMERICA, INC.

Only replace with version with remote control for central locking:

Installation:

Initialize all transmitters (ignition keys), refer to Owner's Handbook.

Removal Of Versions (C) And (D):

Press end caps (1) towards mirror housing (2); this releases clip connection of both caps (1).

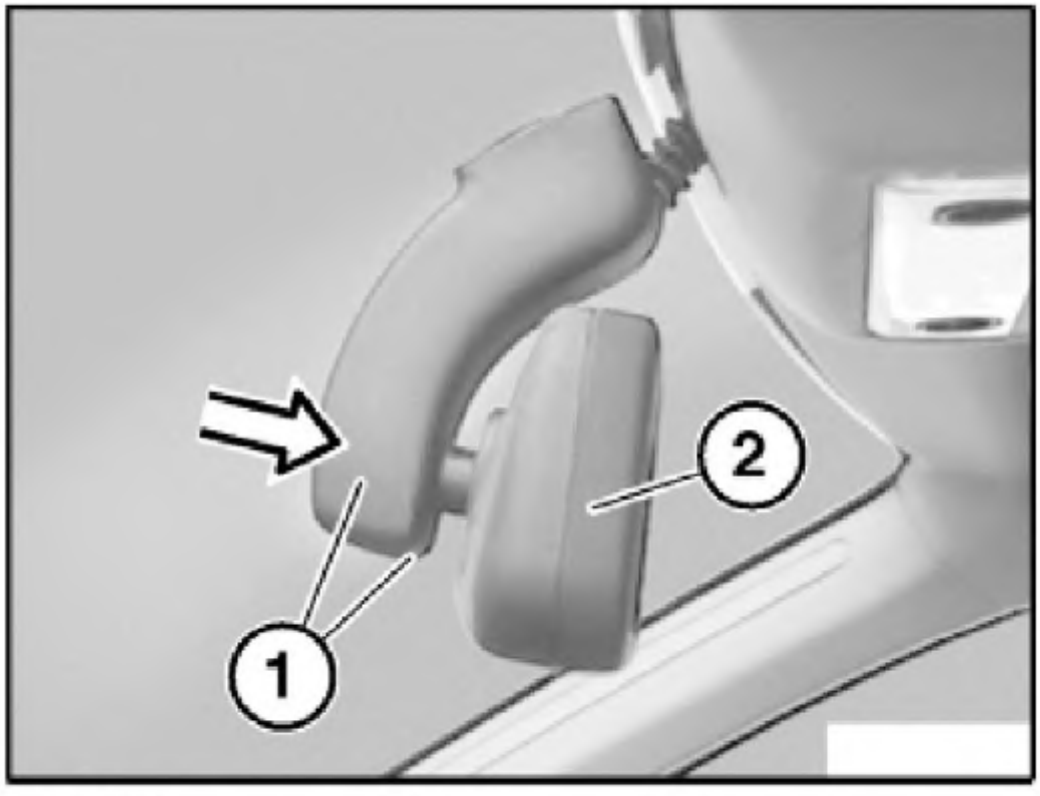


Fig. 101: Pressing End Caps Towards Mirror Housing
Courtesy of BMW OF NORTH AMERICA, INC.

Twist mirror (1) at an angle towards front and right/top.

Swivel left end cap (2) off ball neck in direction of arrow; this detaches the engagement clip (3) from the metal foot.

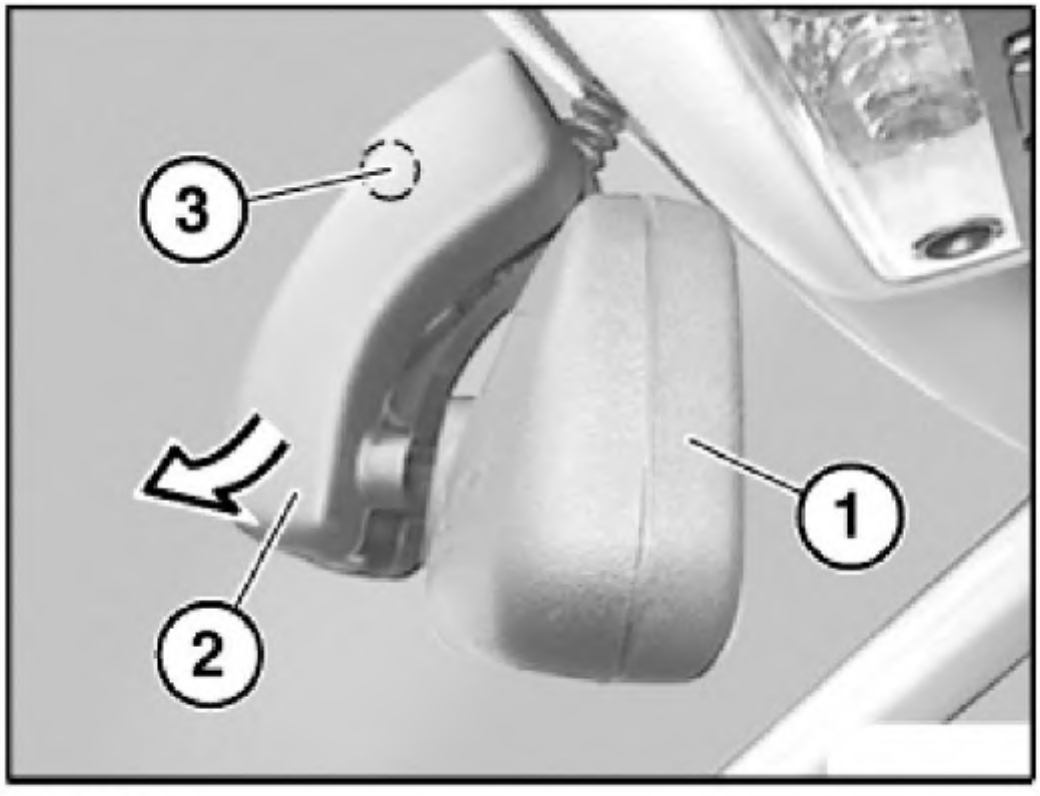


Fig. 102: Twisting Mirror At An Angle Towards Front And Right/Top
Courtesy of BMW OF NORTH AMERICA, INC.

Twist mirror (1) at an angle towards front and left/top.

Swivel right end cap (2) off ball neck in direction of arrow; this detaches the engagement clip from the metal foot.

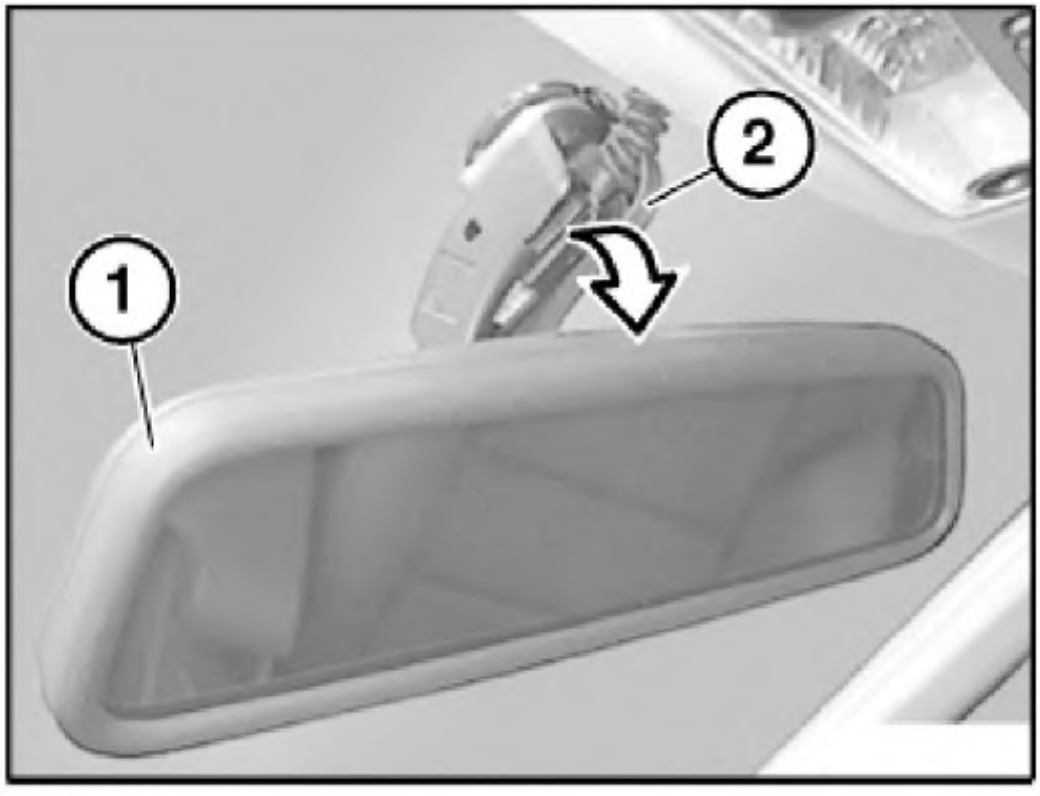


Fig. 103: Detaching Engagement Clip From Metal Foot
Courtesy of BMW OF NORTH AMERICA, INC.

Disconnect plug connection (1).

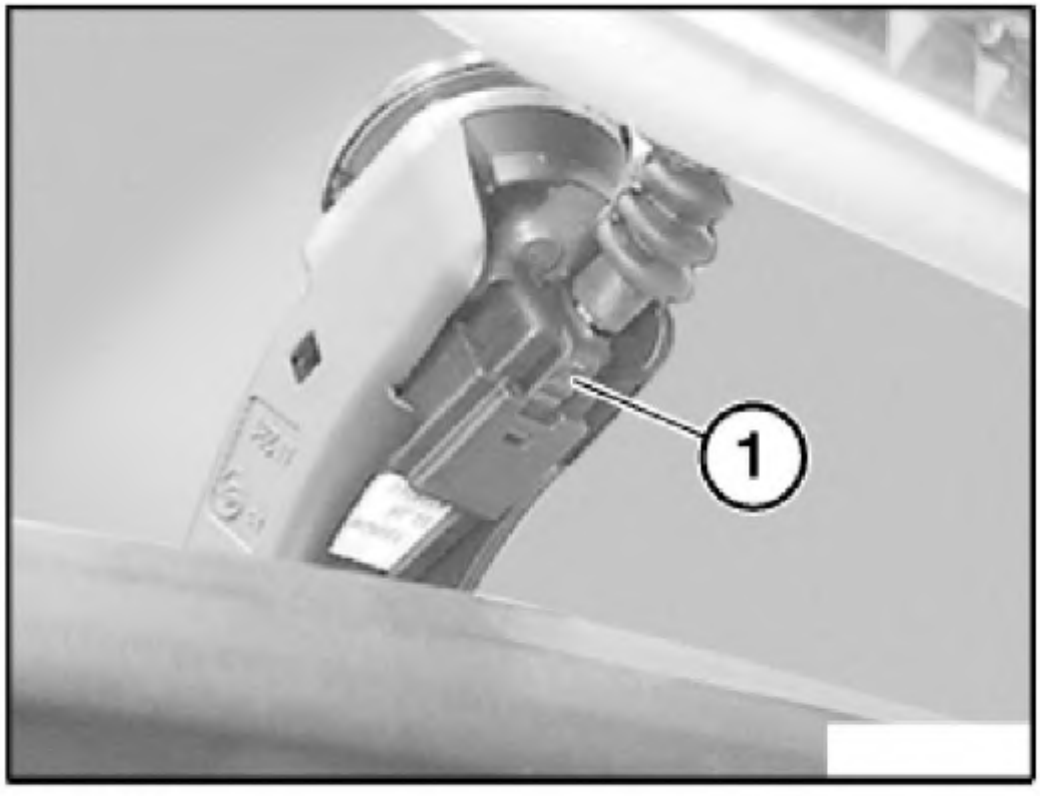


Fig. 104: Disconnecting Plug Connection
Courtesy of BMW OF NORTH AMERICA, INC.

IMPORTANT: Do not remove interior mirror (1) towards rear or by twisting (risk of damage).

Snap out interior mirror (1) from mirror mount (2) towards front by striking with ball of thumb and remove.

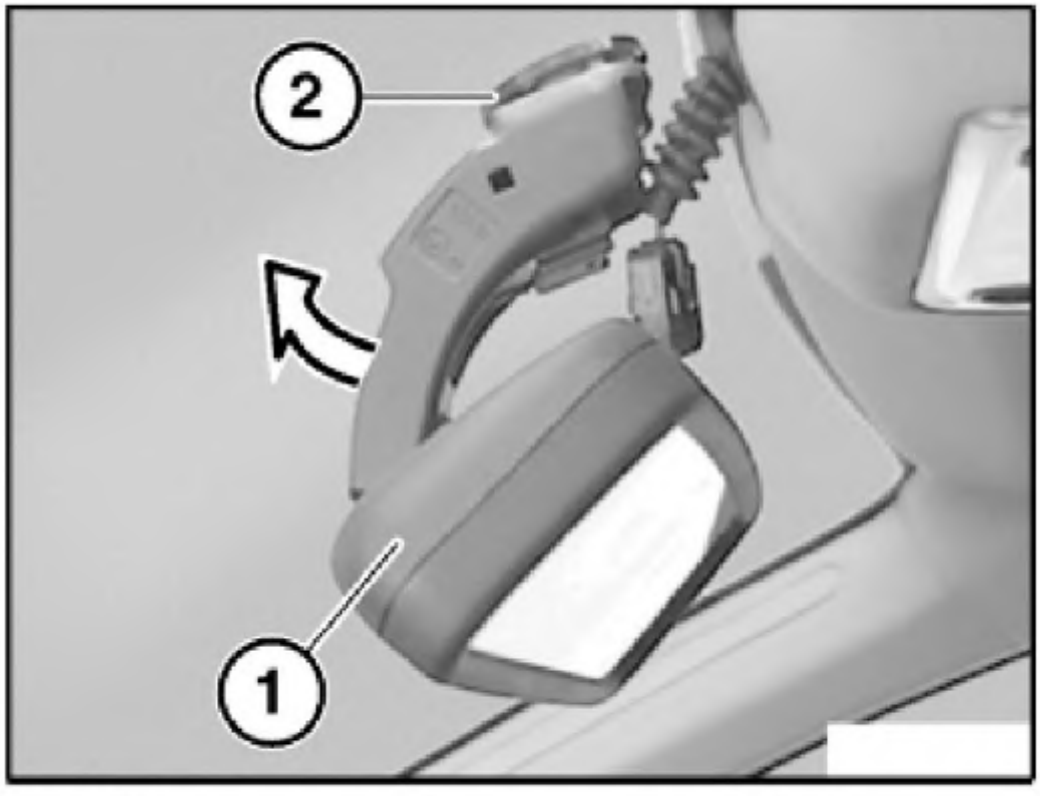
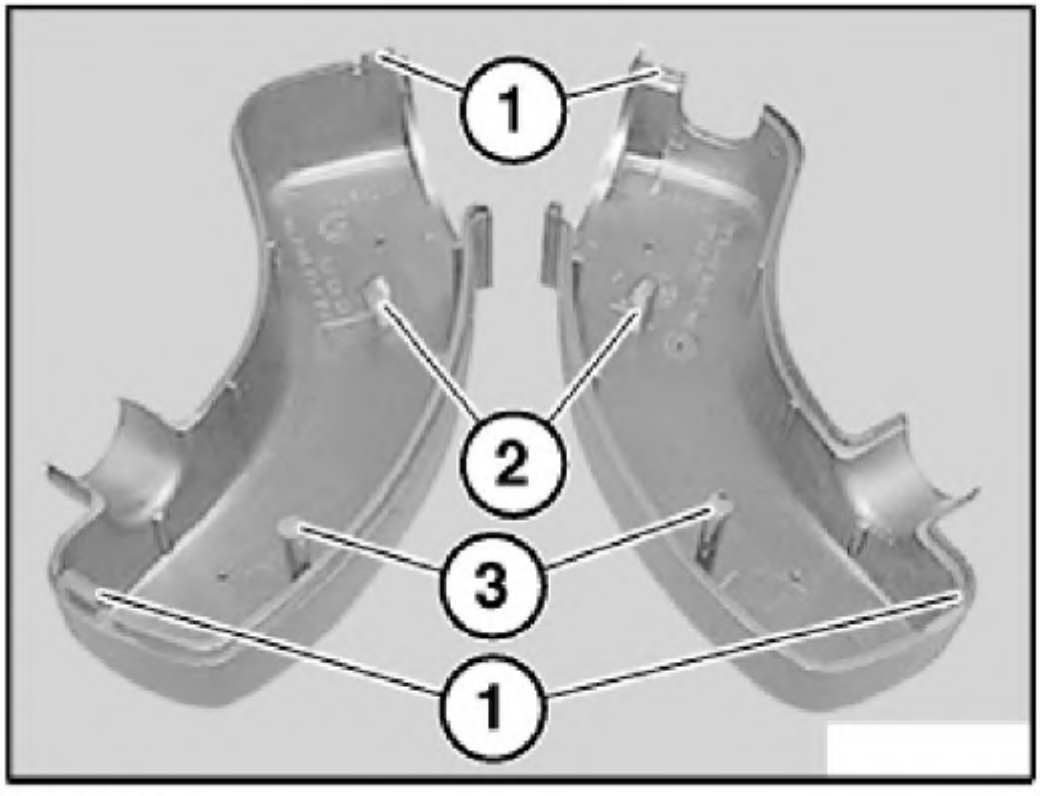


Fig. 105: Snaping Out Interior Mirror From Mirror Mount Towards Front
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Clips (1) and retaining hooks (2) of end caps (3) must not be damaged, replace if necessary.



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Fig. 106: Checking Clips And Retaining Hooks Of End Caps
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

1. Twist mirror foot by approx. 45° and fit to mirror mount.
2. Turn mirror foot until it engages on mirror base.

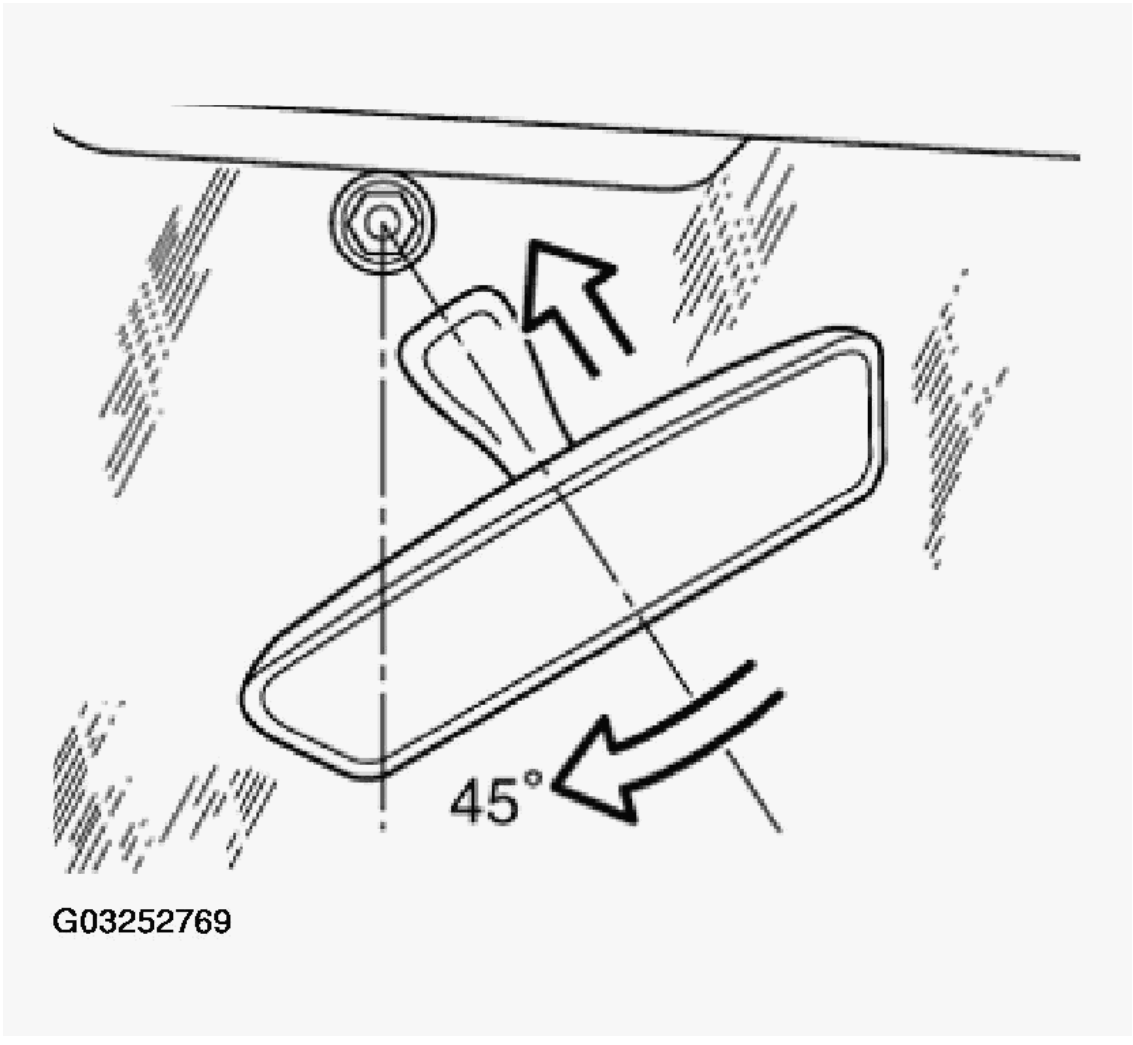


Fig. 107: Turning Mirror Foot Until It Engages On Mirror Base
Courtesy of BMW OF NORTH AMERICA, INC.

Removal Of Version (E) With Rain Sensor:

Press on end caps (1) and at same time press them apart; this releases clip connection of both caps (1).

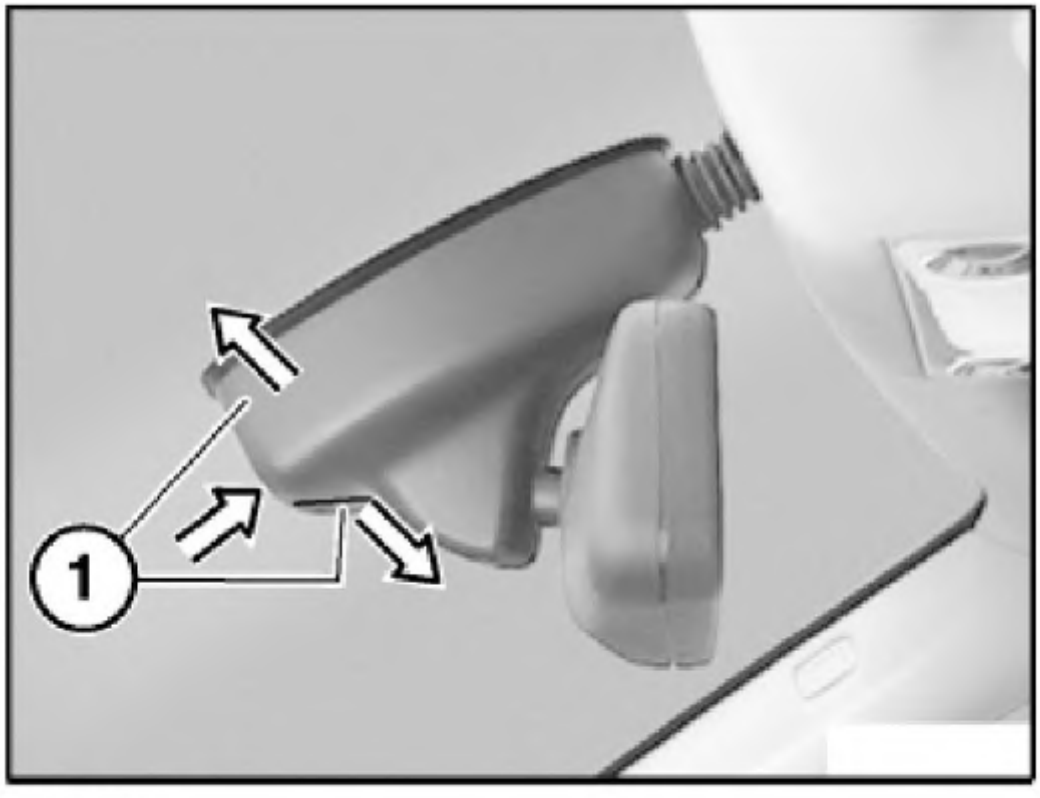


Fig. 108: Pressing On End Caps
Courtesy of BMW OF NORTH AMERICA, INC.

Twist mirror (1) at an angle towards front and right/top.

Swivel left end cap (2) off ball neck in direction of arrow; this detaches the engagement clip (3) from the metal foot.

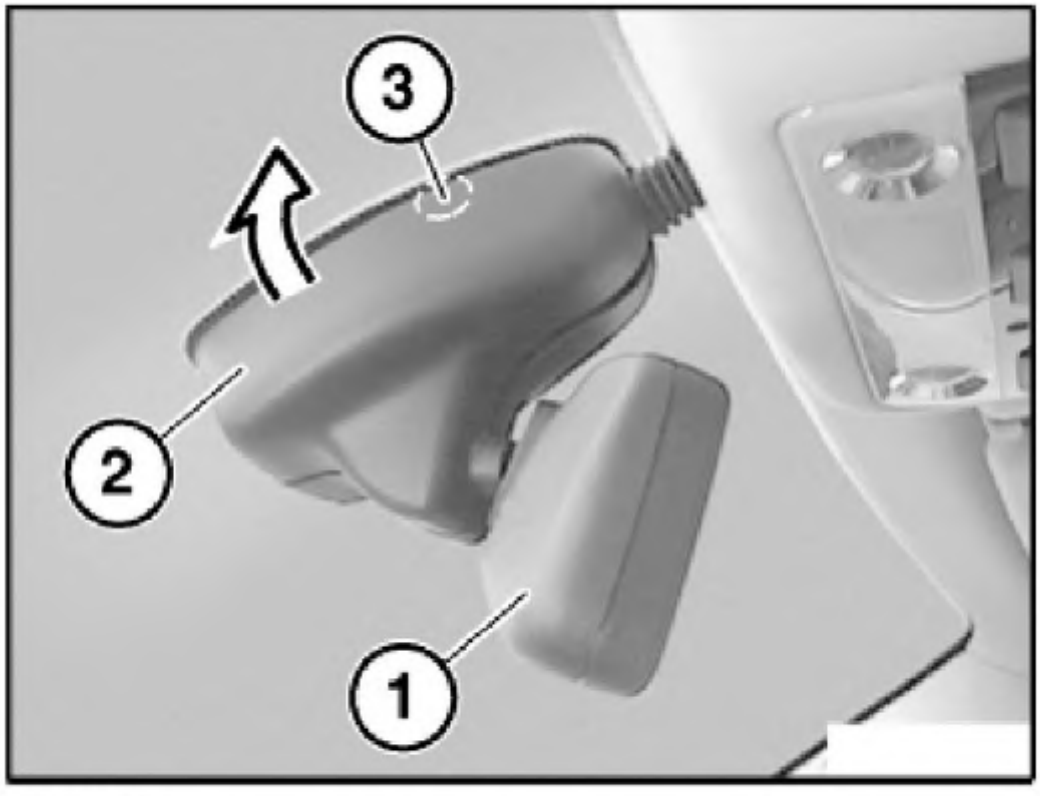


Fig. 109: Swiveling Left End Cap Off Ball Neck
Courtesy of BMW OF NORTH AMERICA, INC.

Twist mirror (1) at an angle towards front and left/top.

Swivel right end cap (2) off ball neck in direction of arrow; this detaches the engagement clip from the metal foot.

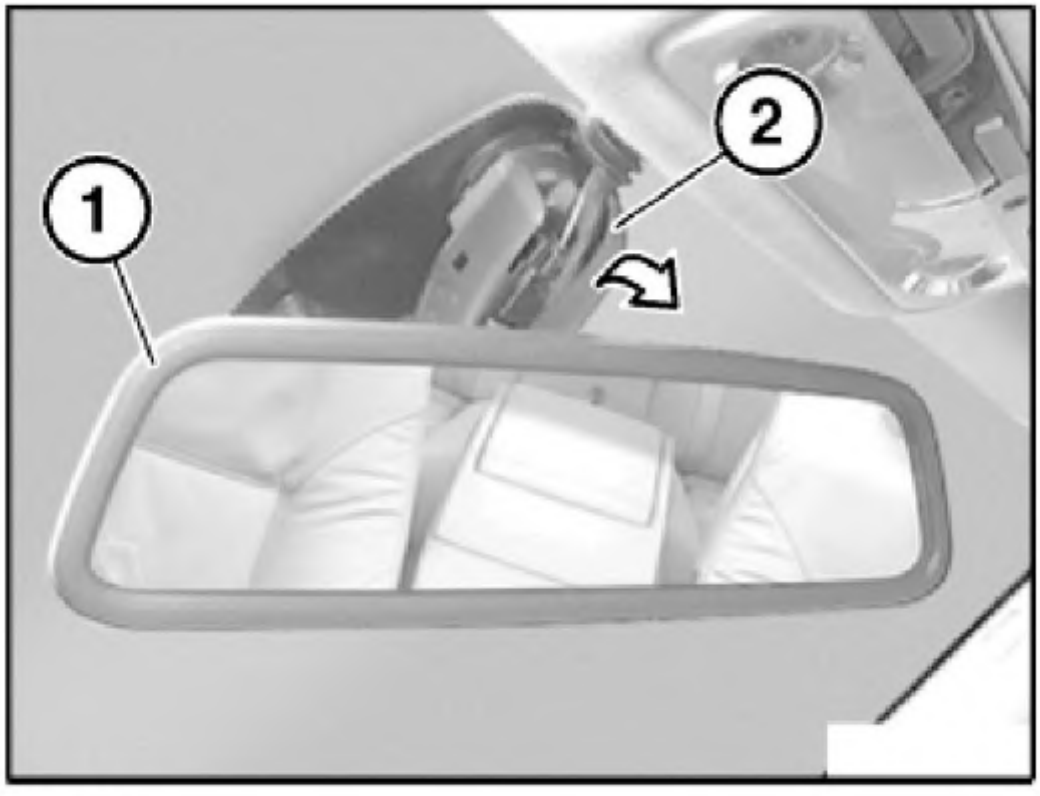
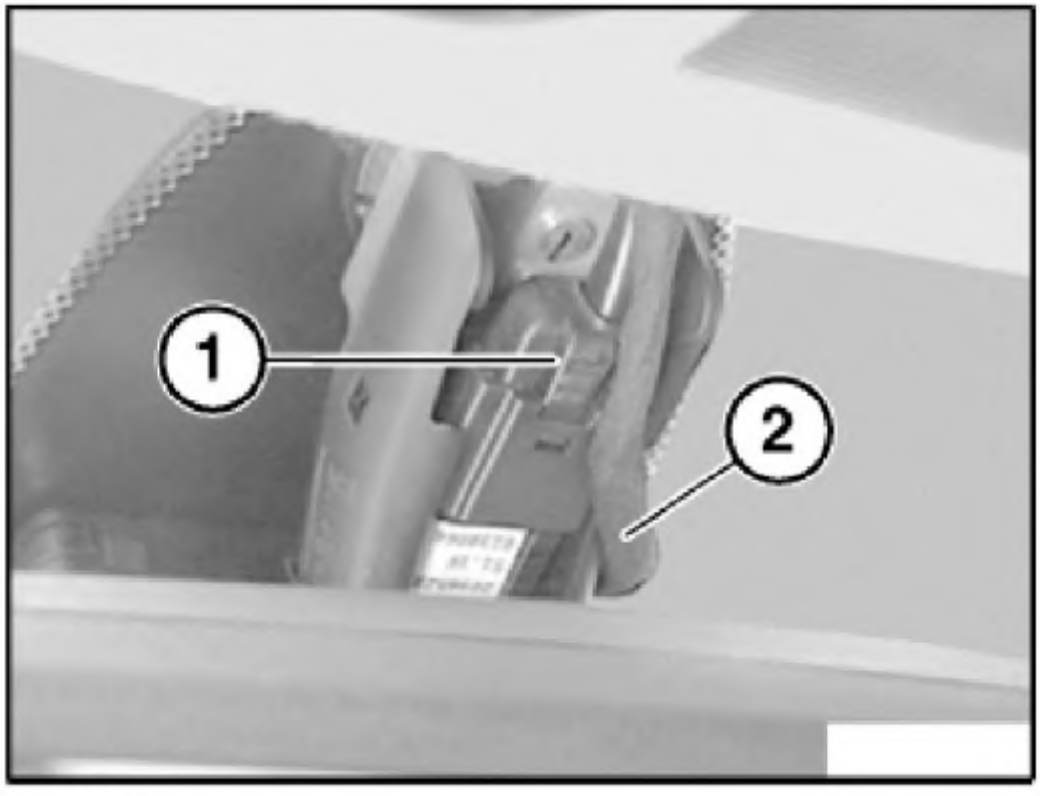


Fig. 110: Swiveling Right End Cap Off Ball Neck
Courtesy of BMW OF NORTH AMERICA, INC.

Disconnect plug connection (1).

Pay attention to cable guide (2) for rain sensor.



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Fig. 111: Disconnecting Plug Connection
Courtesy of BMW OF NORTH AMERICA, INC.

IMPORTANT: Do not remove interior mirror (1) towards rear or by twisting (risk of damage).

When snapping out, do not damage control unit (3) for rain sensor.

Snap out interior mirror (1) from mirror mount (2) towards front by striking with ball of thumb and remove.

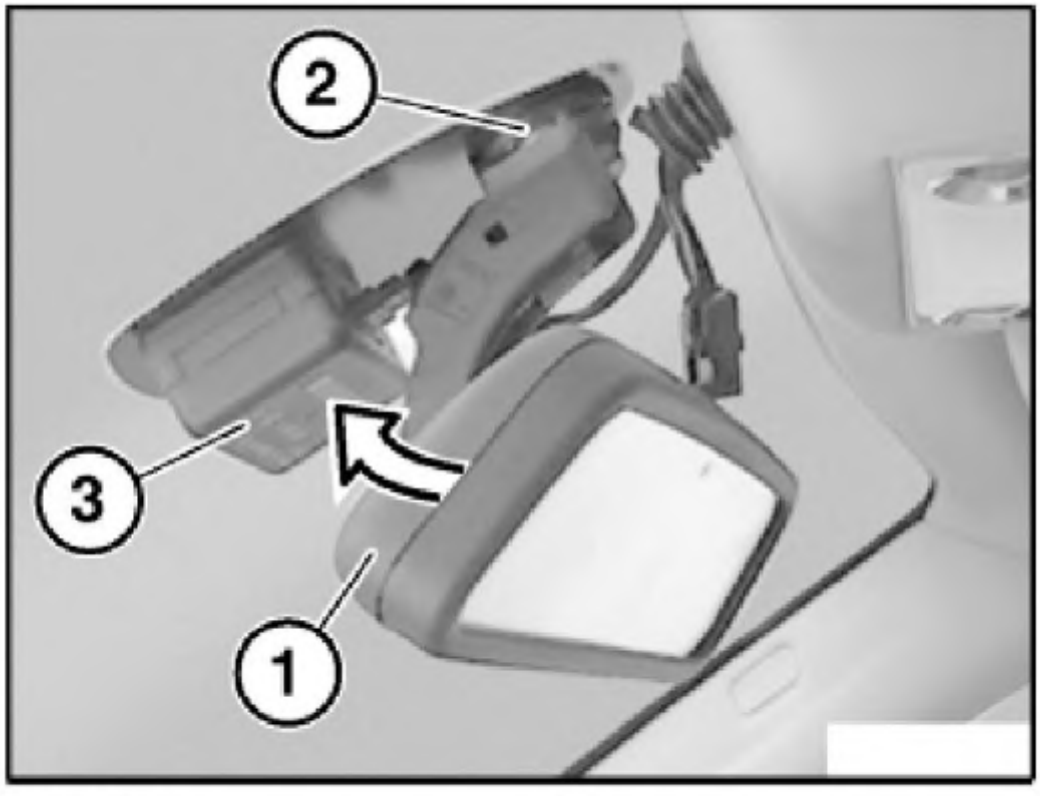
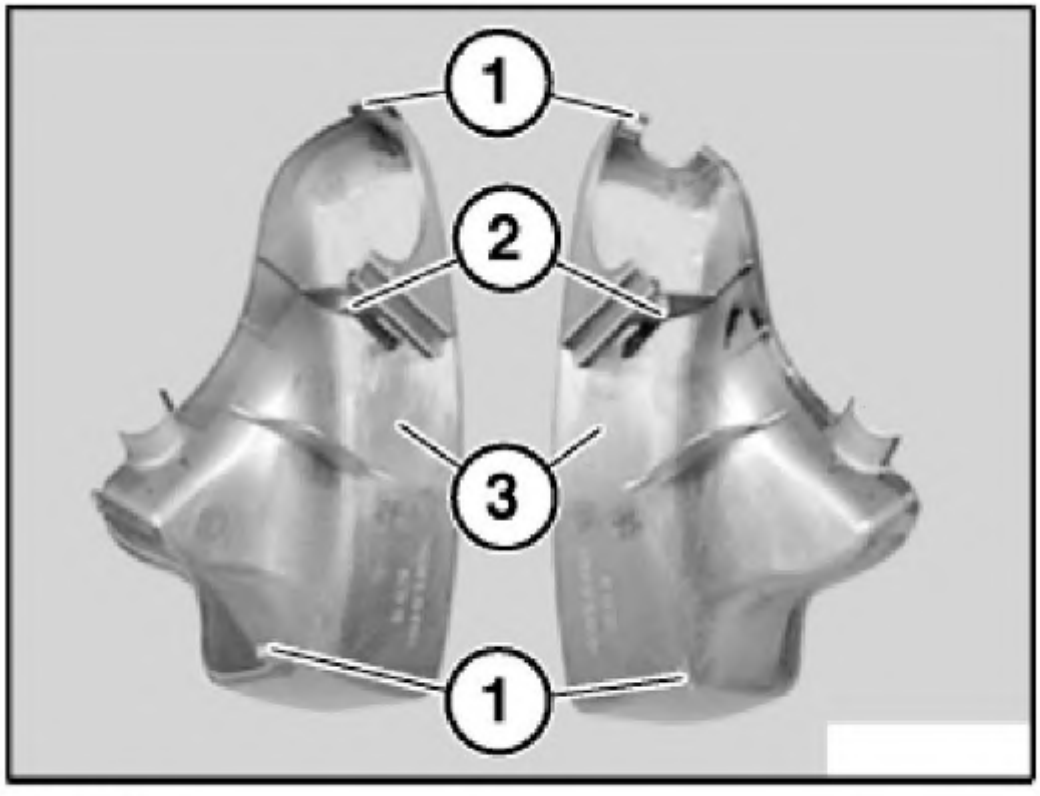


Fig. 112: Snaping Out Interior Mirror From Mirror Mount Towards Front
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Clips (1) and retaining hooks (2) of end caps (3) must not be damaged, replace if necessary.



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Fig. 113: Checking Clips And Retaining Hooks Of End Caps
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

1. Twist mirror foot by approx. 45° and fit to mirror mount.
2. Turn mirror foot until it engages on mirror base.

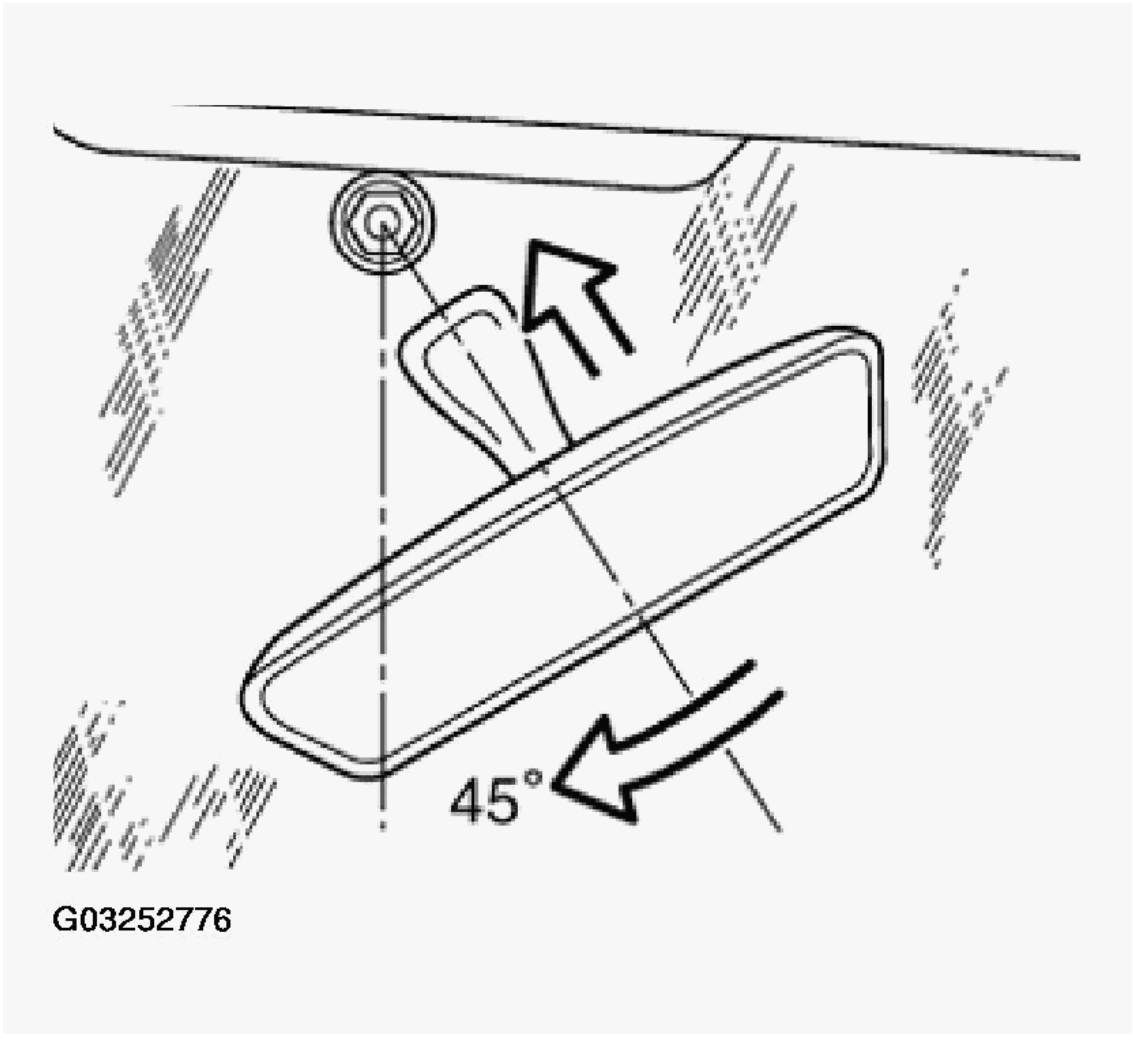


Fig. 114: Turning Mirror Foot
Courtesy of BMW OF NORTH AMERICA, INC.

Only replace with version with remote control for central locking:

Installation:

Initialize all transmitters (ignition keys), refer to Owner's Handbook.

51 16 063 REMOVING AND INSTALLING / REPLACING INTERIOR REARVIEW MIRROR (WITH REMOTE CONTROL)

Operation is identical to removing and installing/replacing interior rearview mirror. See **51 16 060 Removing And Installing Or Replacing Interior Rearview Mirror** .

51 16 080 REMOVING AND INSTALLING OR REPLACING SUN VISOR AND LEFT OR RIGHT COUNTER SUPPORT

Lift out sun visor.

Lift out finishers on counter support and joint and unfasten screws.

Pull lighting wire out slightly and disconnect connector.

Installation:

Perform function check on lighting.

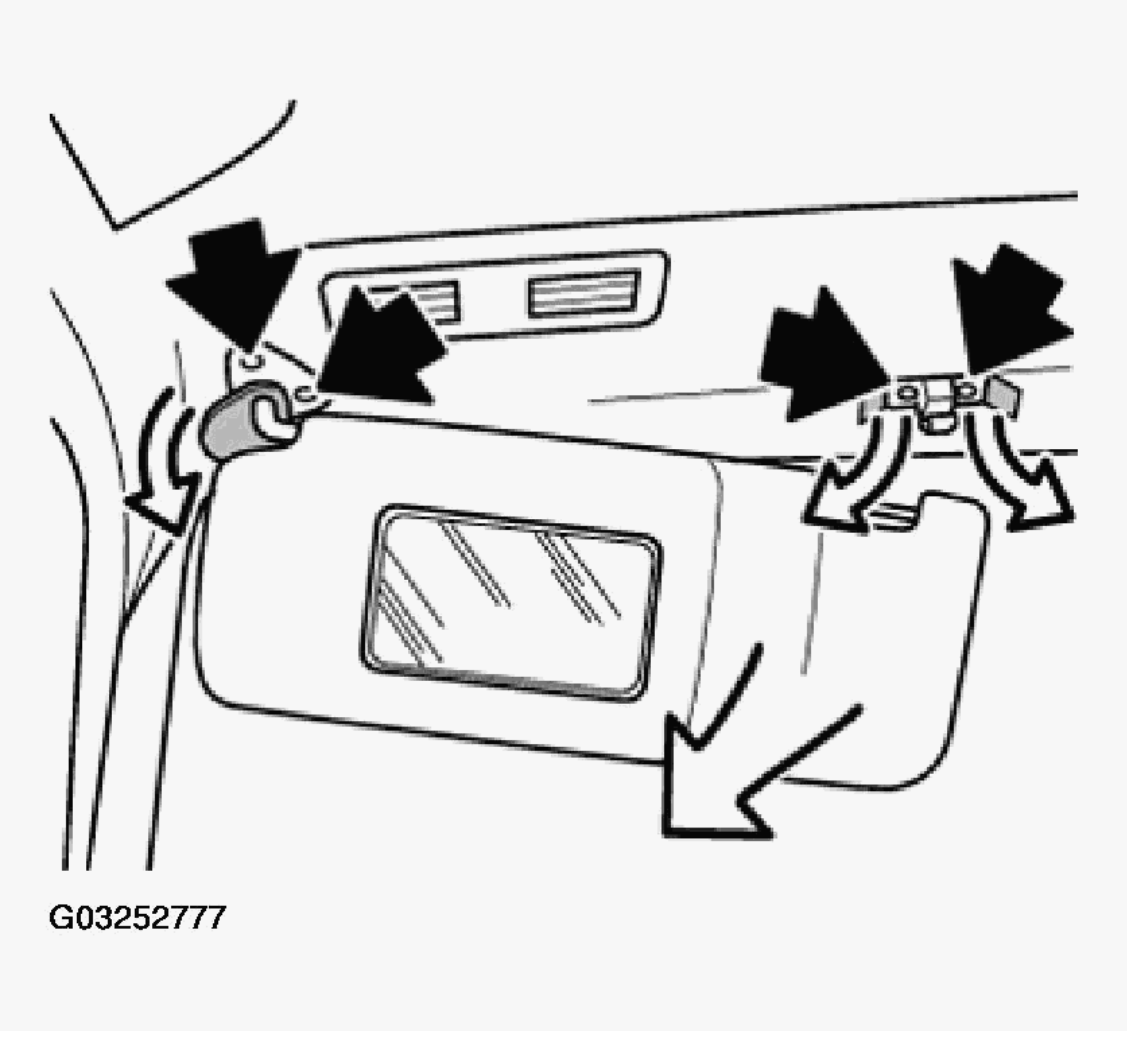


Fig. 115: Disconnecting Connector
Courtesy of BMW OF NORTH AMERICA, INC.

51 16 200 REMOVING AND INSTALLING CENTER CONSOLE

Remove bottom right trim panel from instrument panel. See **51 45 181 Removing And Installing/Replacing Trim For Instrument Panel, Bottom Right** .

Remove trim panel for pedal assembly. See **51 45 185 Removing And Installing/Replacing Trim For Pedal Assembly** .

Remove switch for hazard warning system/central locking. See **61 31 079 REMOVING AND INSTALLING/REPLACING SWITCH FOR HAZARD WARNING** .

Remove switch unit in center console. See **61 31 057 REMOVING AND INSTALLING SWITCH UNIT IN CENTER CONSOLE** .

Release center console at rear. See **51 16 204 Removing And Installing/Replacing Rear Cup Holder** .

Release left/right screws (1).

Unclip clips (2) outwards on side carpet (3) on left/right.

Slide side carpet (3) forwards out of retainer (4) and remove.

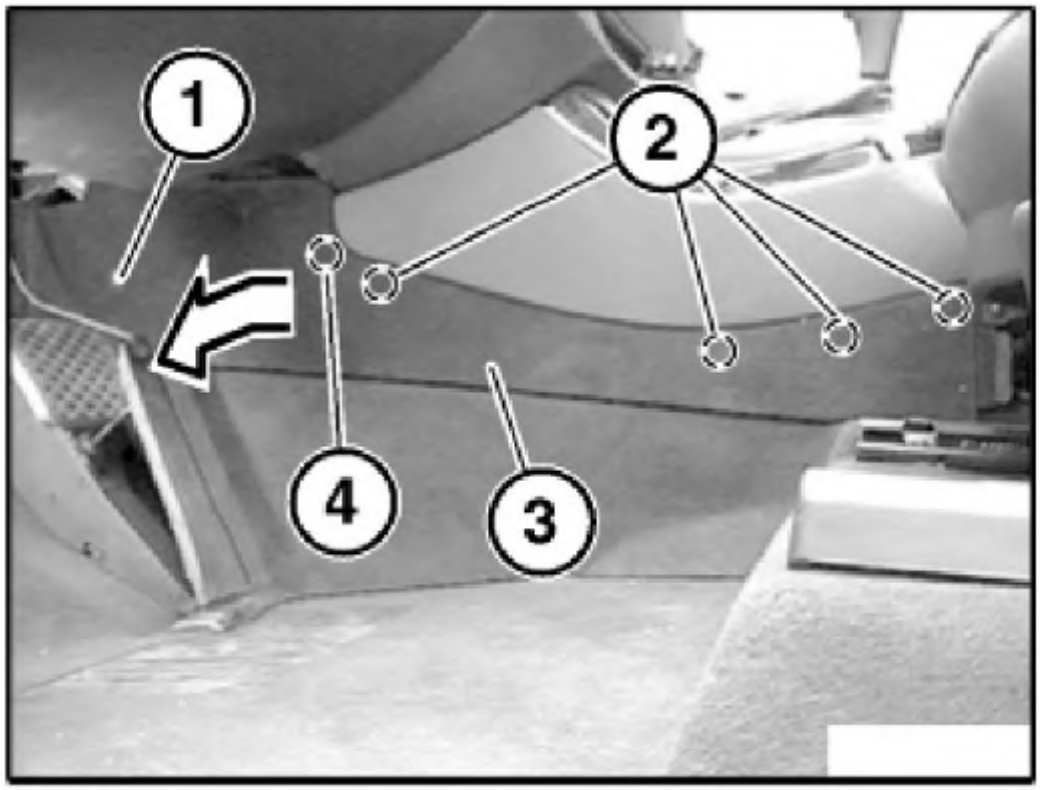


Fig. 116: Sliding Side Carpet Forwards Out Of Retainer And Remove

Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

If necessary, replace faulty clips (1) with sealing washer and retainer (2) on side carpet (3).

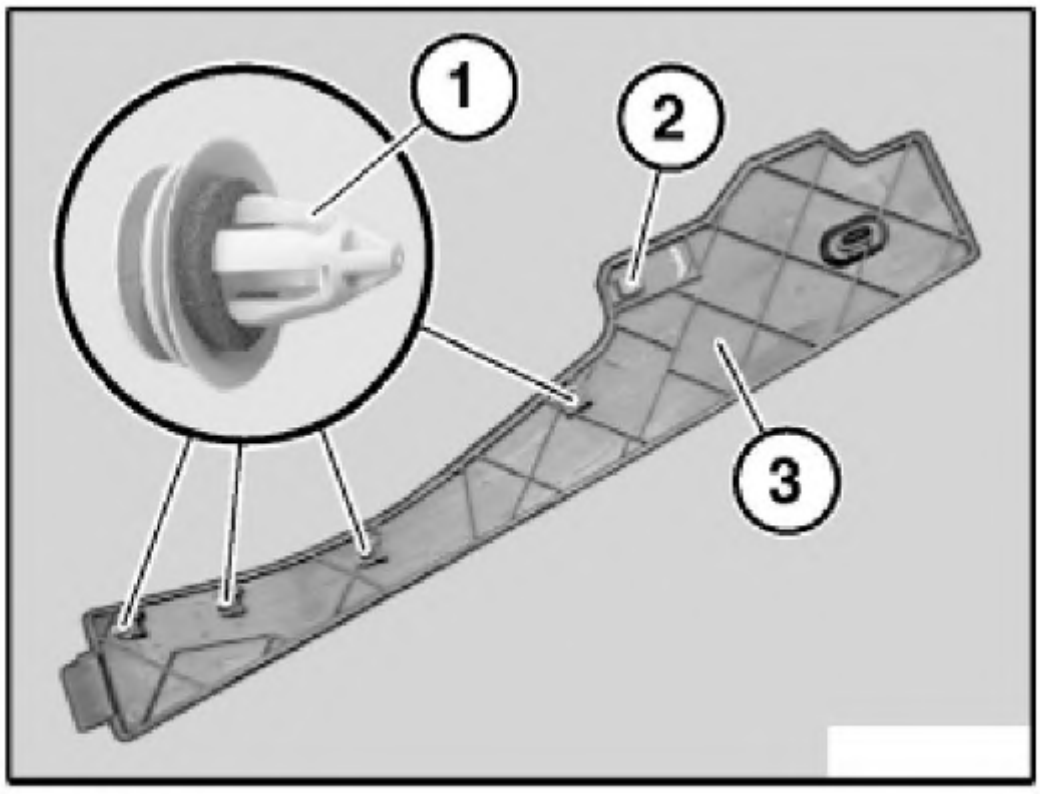


Fig. 117: Checking Faulty Clips With Sealing Washer And Retainer On Side Carpet
Courtesy of BMW OF NORTH AMERICA, INC.

Release screw (1).

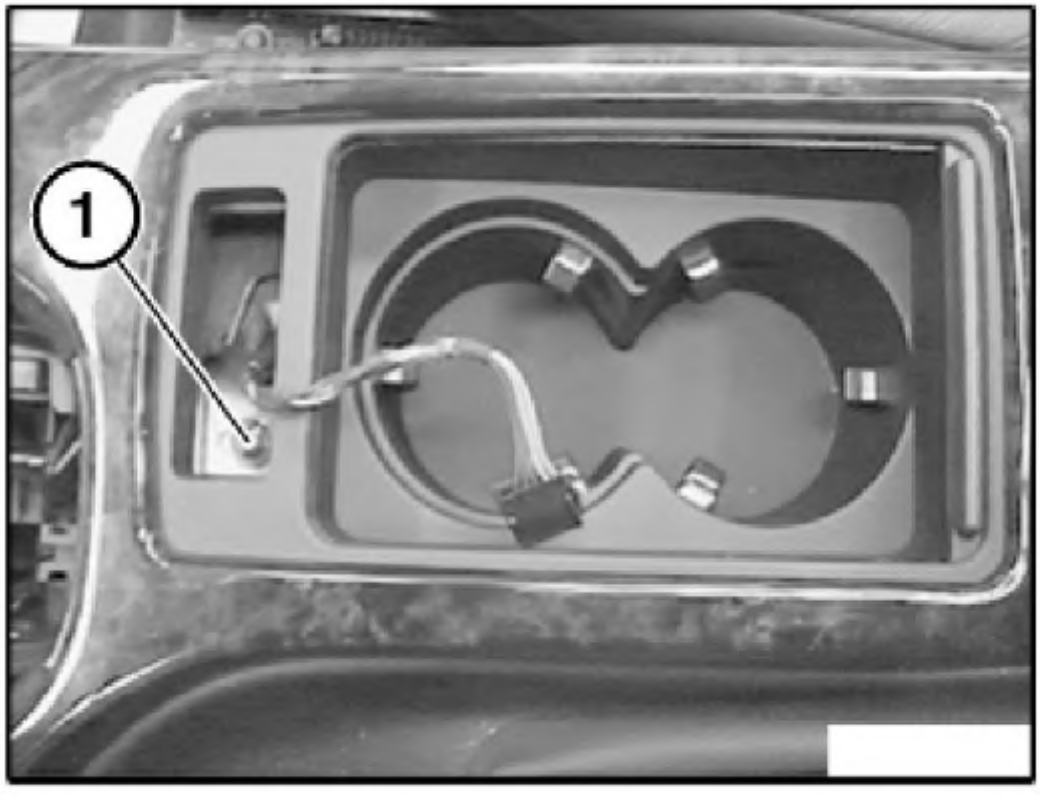


Fig. 118: Releasing Screw
Courtesy of BMW OF NORTH AMERICA, INC.

Release left/right screws (1).

Disconnect plug connections (2).

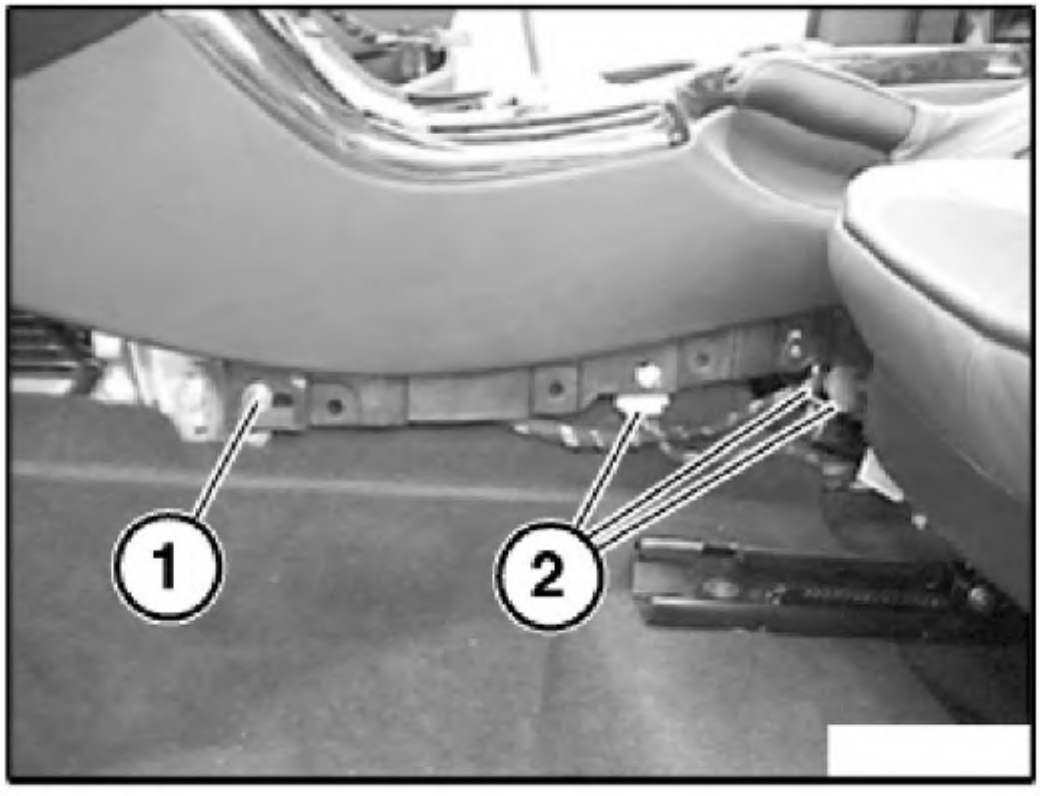


Fig. 119: Disconnecting Plug Connections
Courtesy of BMW OF NORTH AMERICA, INC.

Apply handbrake lever (1) to max. setting.

Unclip rubber gaiter (2).

Raise center console (3) at rear and lift over handbrake lever (1).

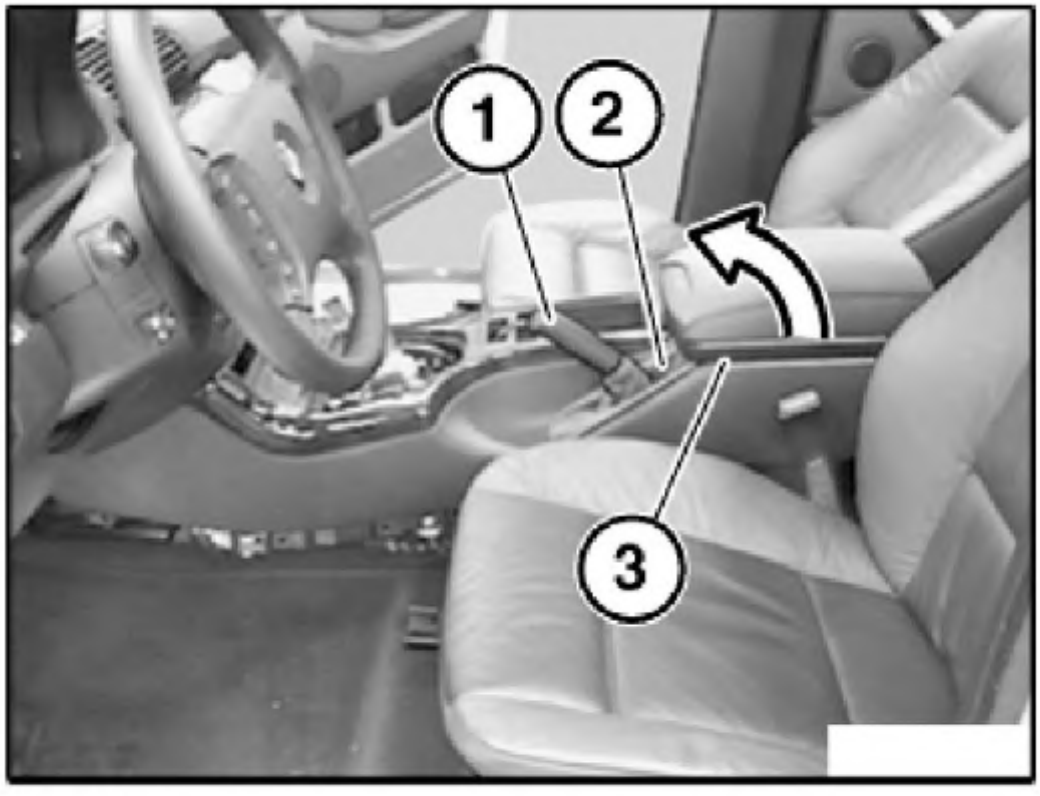


Fig. 120: Unclipping Rubber Gaiter
Courtesy of BMW OF NORTH AMERICA, INC.

Feed plug (2) out of center console (3).

Lift center console (3) over shift stick (4) and remove from car.

Installation:

Guides (1) must not be damaged.



Fig. 121: Checking Guides
Courtesy of BMW OF NORTH AMERICA, INC.

51 16 201 REPLACING CENTER CONSOLE

Remove trims for center console. See **51 16 220 Replacing Trims For Center Console** .

Remove rear center console with cup holder. See **51 16 204 Removing And Installing/Replacing Rear Cup Holder** .

Release left/right screws (1).

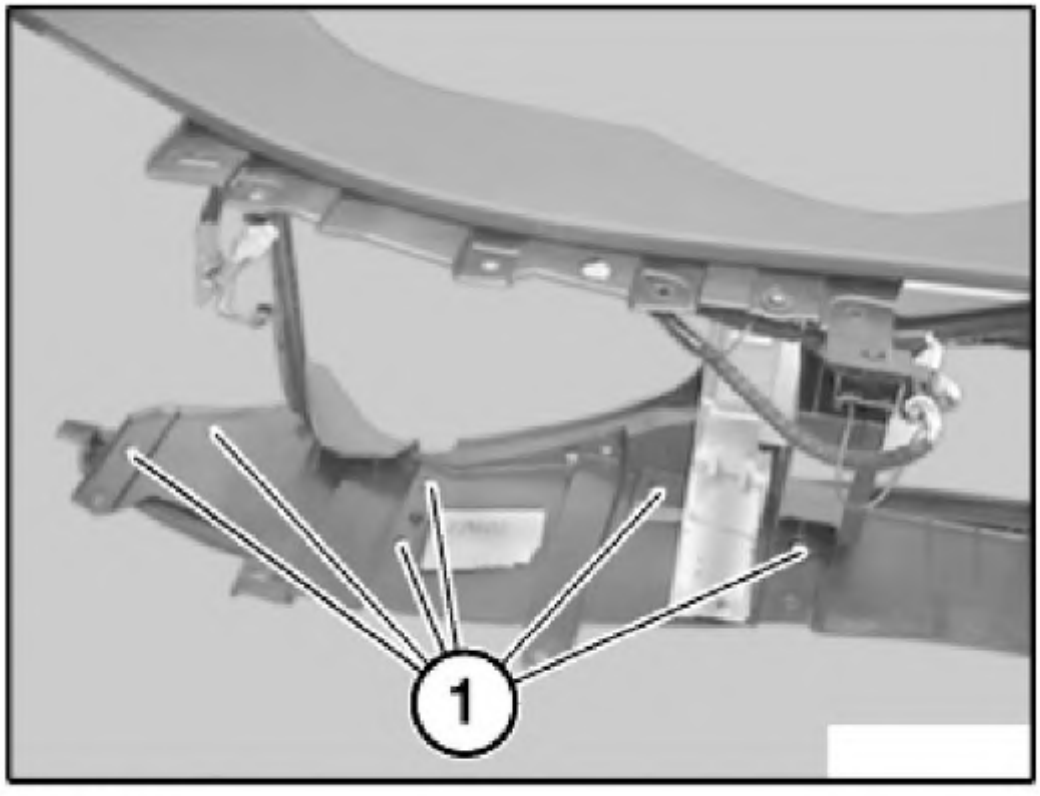


Fig. 122: Releasing Left/Right Screws
Courtesy of BMW OF NORTH AMERICA, INC.

In addition, release screw (1) on driver's side.

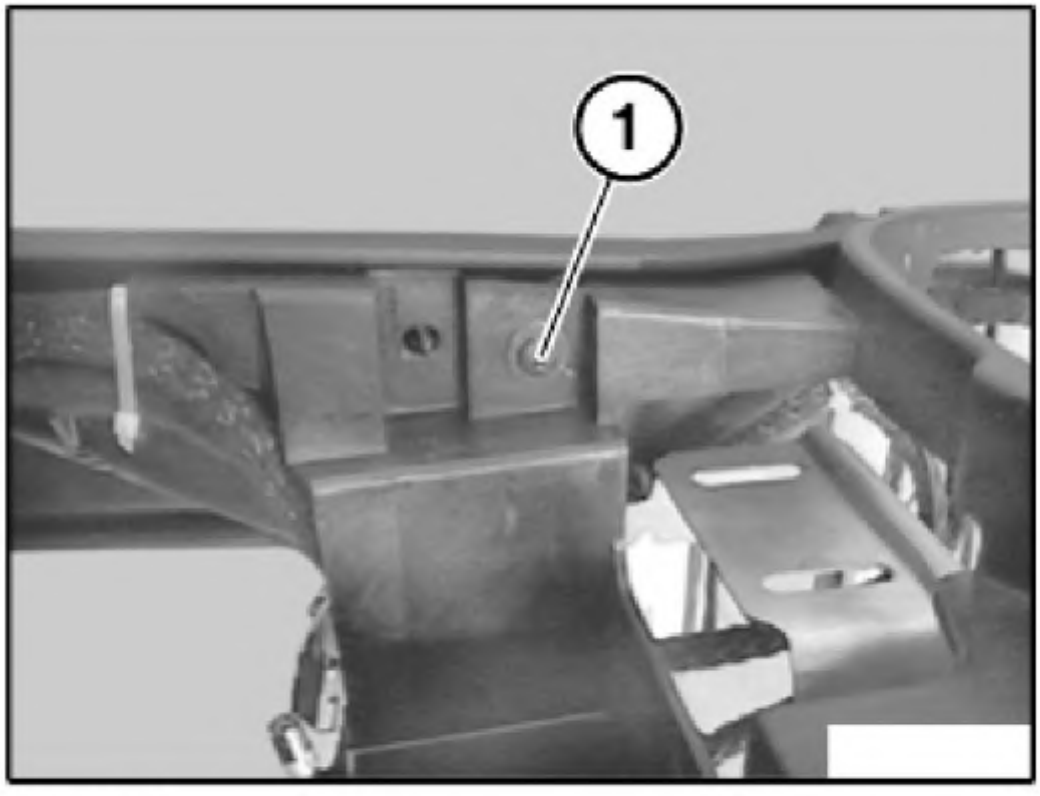


Fig. 123: Releasing Screw On Driver's Side
Courtesy of BMW OF NORTH AMERICA, INC.

Release left/right screws (1) and remove side sections (2).

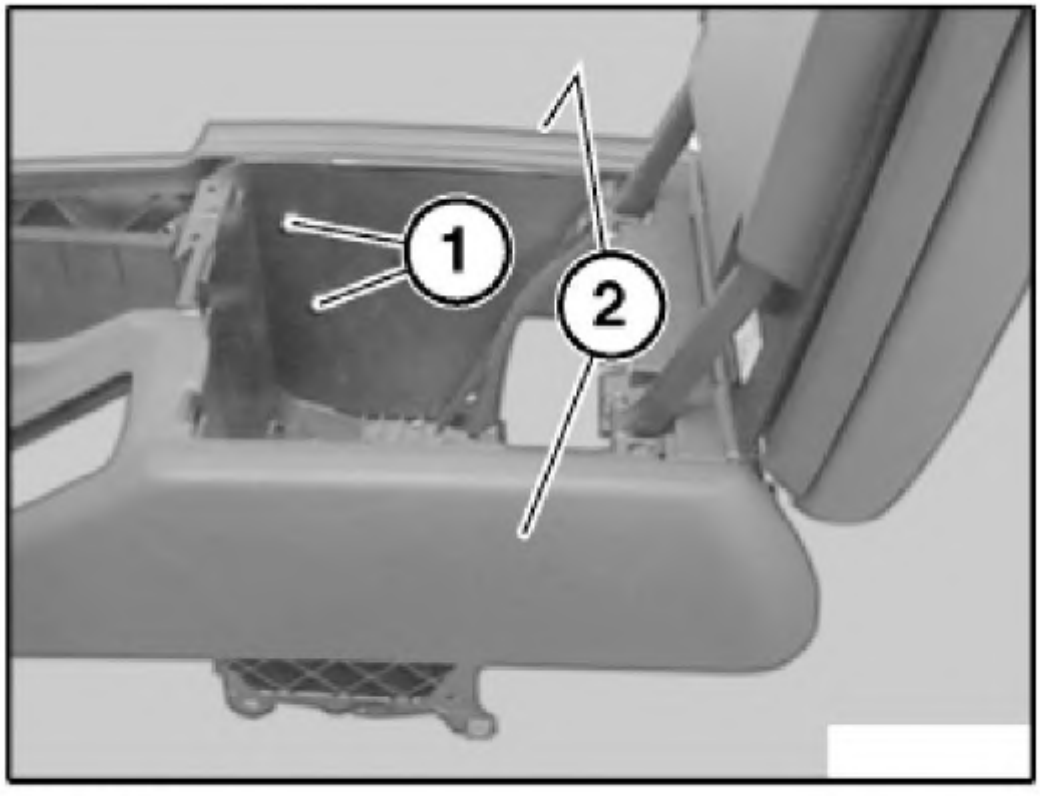
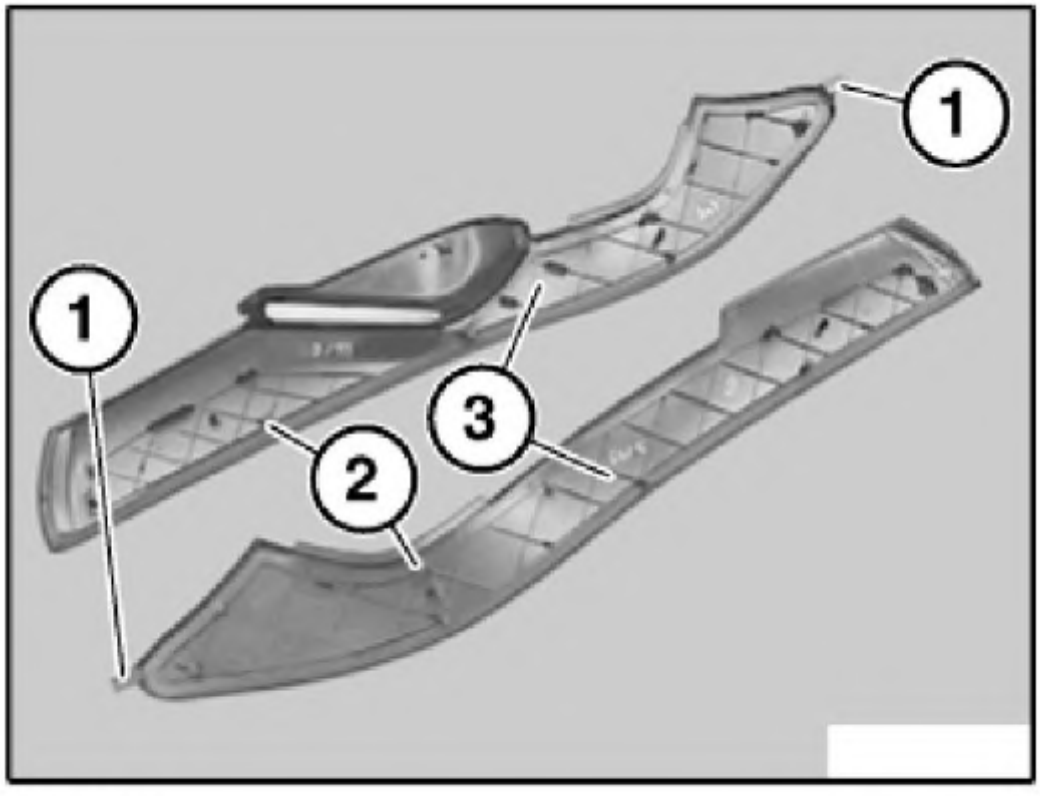


Fig. 124: Releasing Left/Right Screws And Removing Side Sections (2)
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Guides (1) and all screw points (2) of side sections (3) must not be damaged.



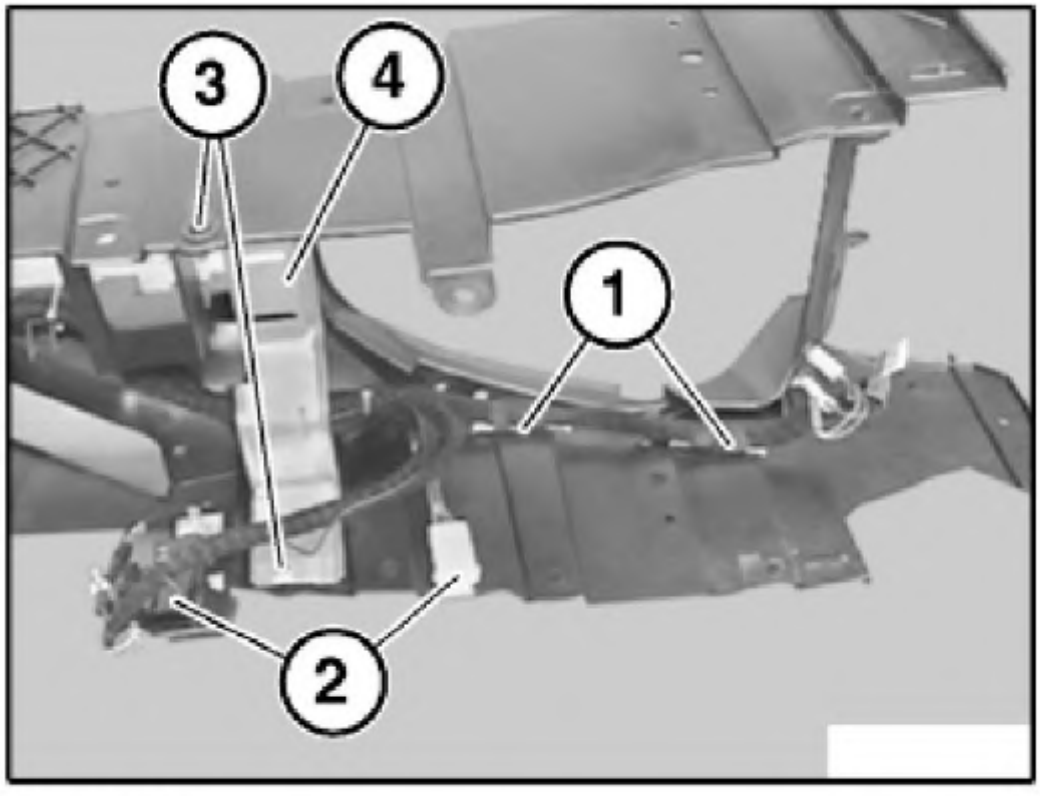
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Fig. 125: Checking Guides And All Screw Points Of Side Sections
Courtesy of BMW OF NORTH AMERICA, INC.

Release cable holder (1).

Turn and detach plug connections (2).

Release screws (3) and remove holder (4).



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Fig. 126: Removing Holder
Courtesy of BMW OF NORTH AMERICA, INC.

Unfasten cable clip (1).

Feed cable (2) out of center console (3).

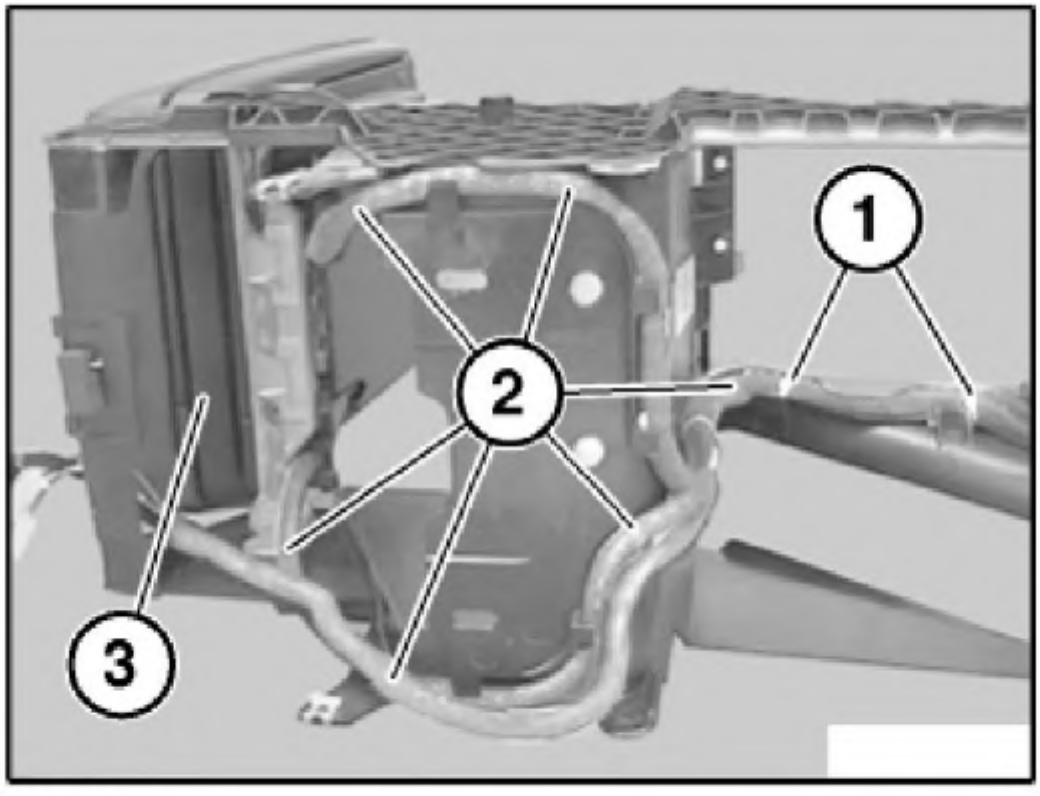


Fig. 127: Unfastening Cable Clip
Courtesy of BMW OF NORTH AMERICA, INC.

Release screws (1) and remove armrest (2) from center console (3).

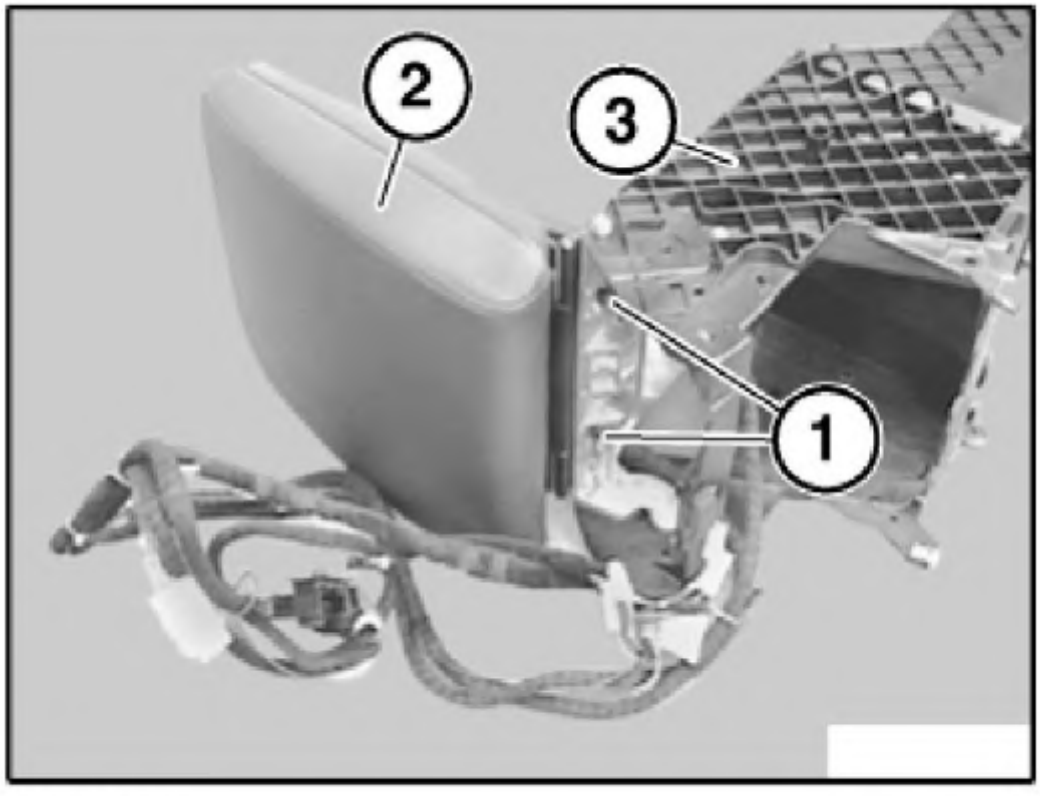


Fig. 128: Releasing Screws And Removing Armrest From Center Console
Courtesy of BMW OF NORTH AMERICA, INC.

Release screws (2) and remove frame (1).

Remove left/right metal nuts (3) from center console (4).

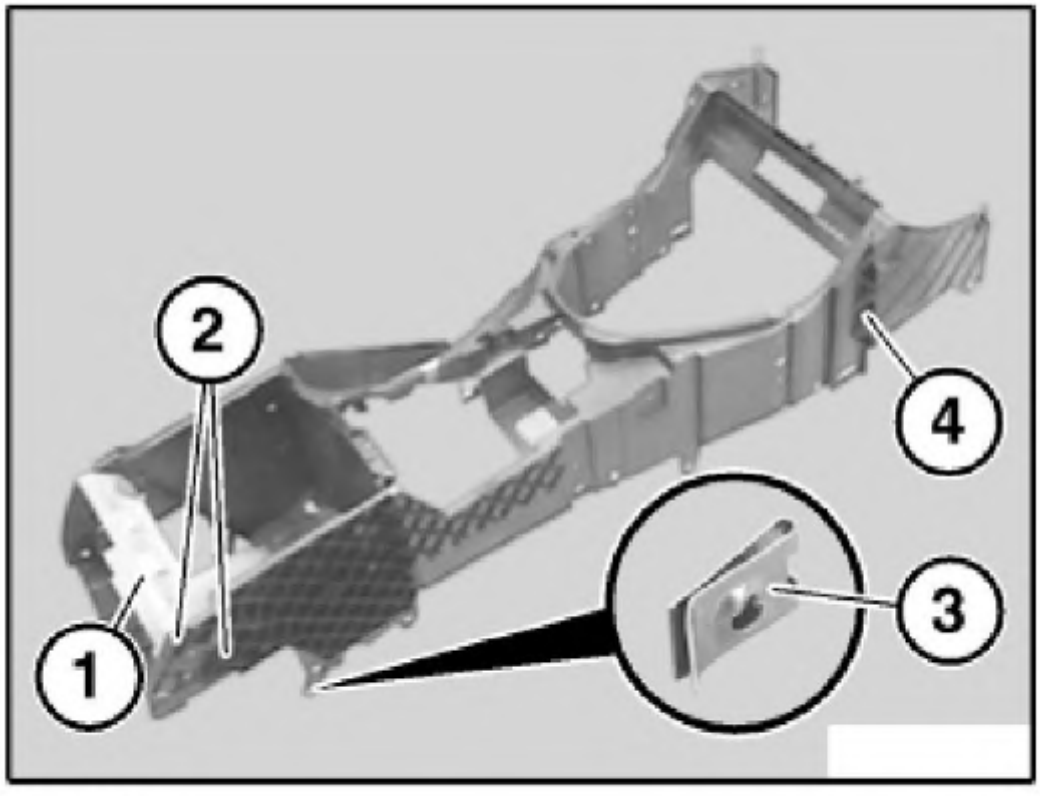


Fig. 129: Removing Left/Right Metal Nuts From Center Console
Courtesy of BMW OF NORTH AMERICA, INC.

51 16 202 REMOVING AND INSTALLING/REPLACING FRONT CUP HOLDER

Operation is described in:

51 16 220 Replacing Trims For Center Console

51 16 204 REMOVING AND INSTALLING/REPLACING REAR CUP HOLDER

Release center console at rear:

Remove fresh air grill in footwell.

Remove air duct (2).

Installation:

Prior to tightening down all screws, fit air duct (2) correctly.

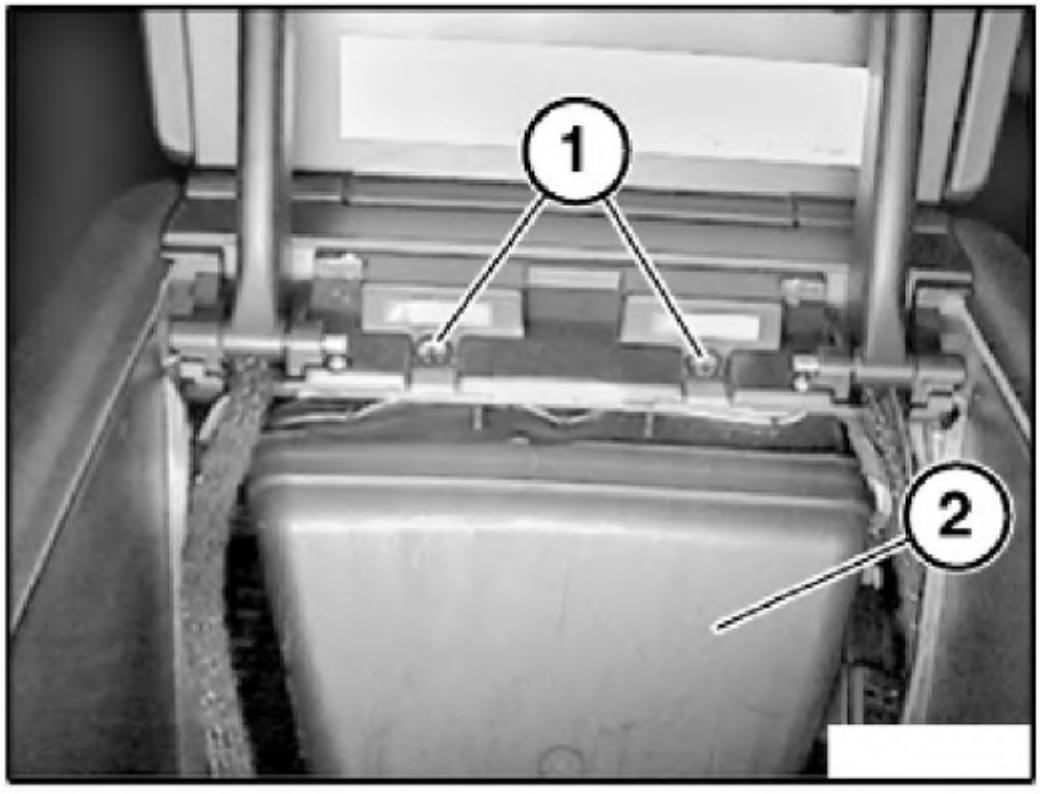


Fig. 130: Removing Air Duct
Courtesy of BMW OF NORTH AMERICA, INC.

Release screws (1).

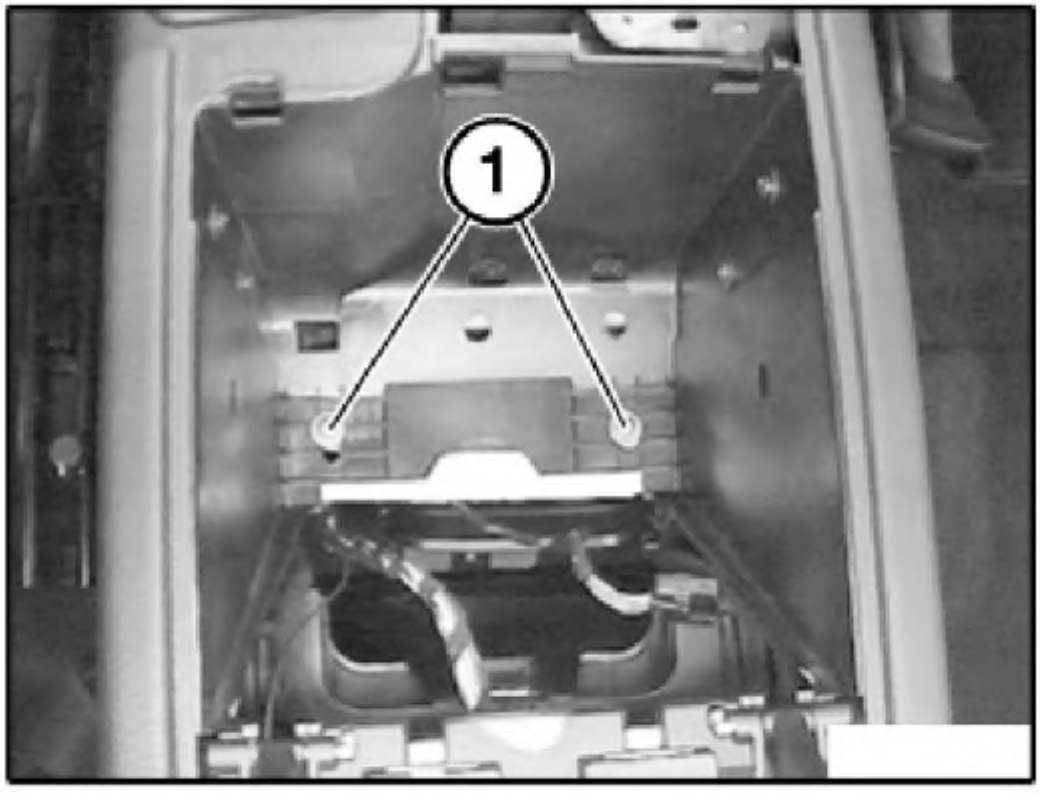


Fig. 131: Releasing Screws
Courtesy of BMW OF NORTH AMERICA, INC.

CAUTION: Last clip on front carpet (4) must be unclipped (risk of damage).

Unclip clips (1) on left/right with carpet (3) outwards from center console (2).

Pull out carpet (3) towards rear.

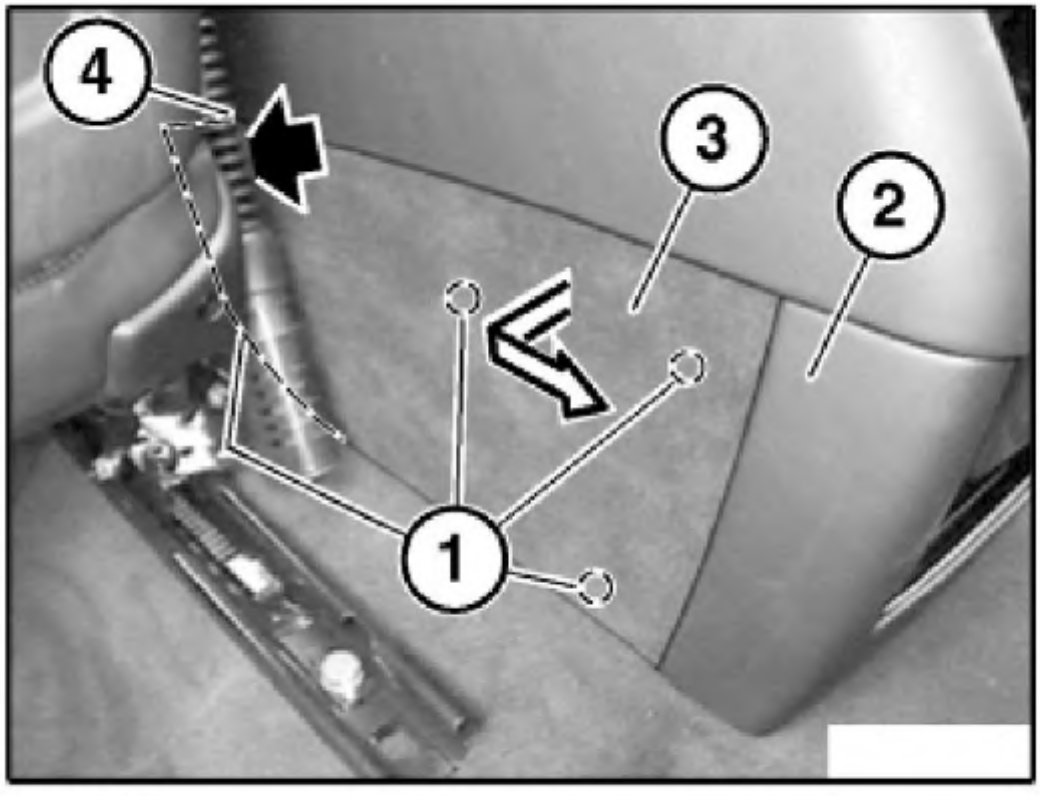


Fig. 132: Pulling Out Carpet Towards Rear
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

If necessary, replace faulty clips (1) with sealing washer and retainer (2) on carpet (3).

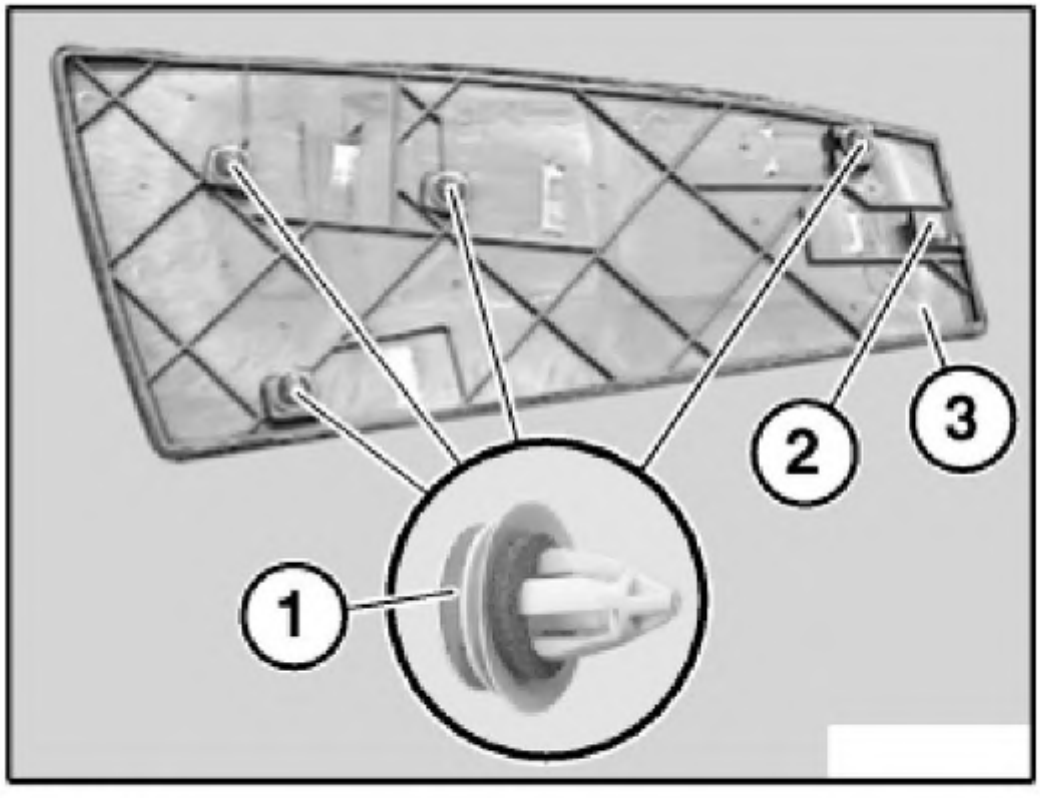
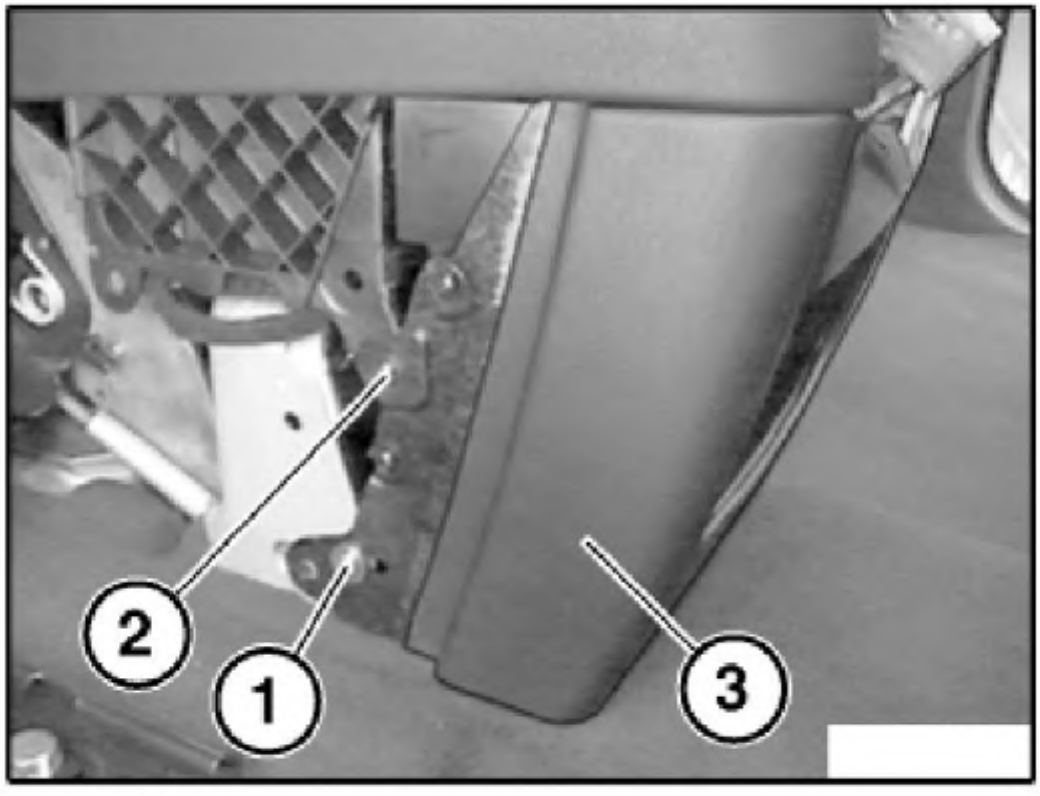


Fig. 133: Checking Faulty Clips With Sealing Washer And Retainer
Courtesy of BMW OF NORTH AMERICA, INC.

NOTE: Screw (2) is only released for removal of cup holder (3).

Unfasten screws (1) and (2) left/right.



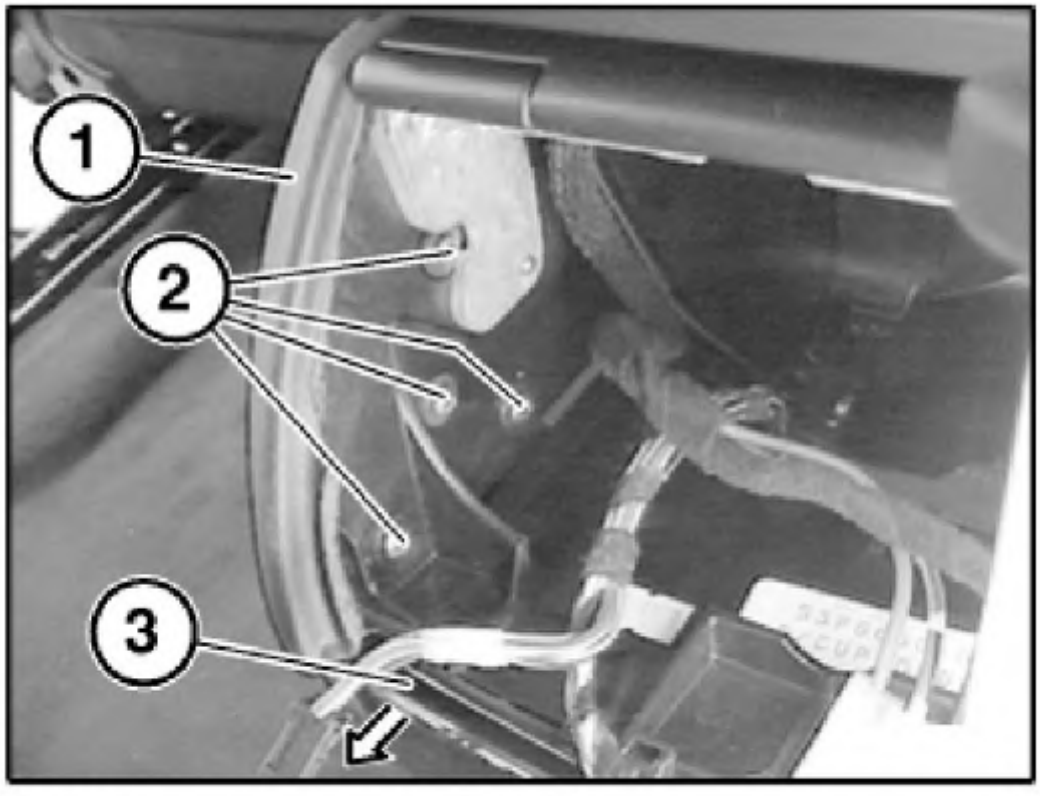
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Fig. 134: Unfastening Screws (1) And (2) Left/Right
Courtesy of BMW OF NORTH AMERICA, INC.

NOTE: The work for "Releasing center console at rear" ends here.

Release left/right screws (2).

Pull left/right side sections (1) apart and pull out center console (rear) with cup holder (3).



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Fig. 135: Releasing Left/Right Screws
Courtesy of BMW OF NORTH AMERICA, INC.

Release screws (2).

Detach cup holder (1) from carrier (3).

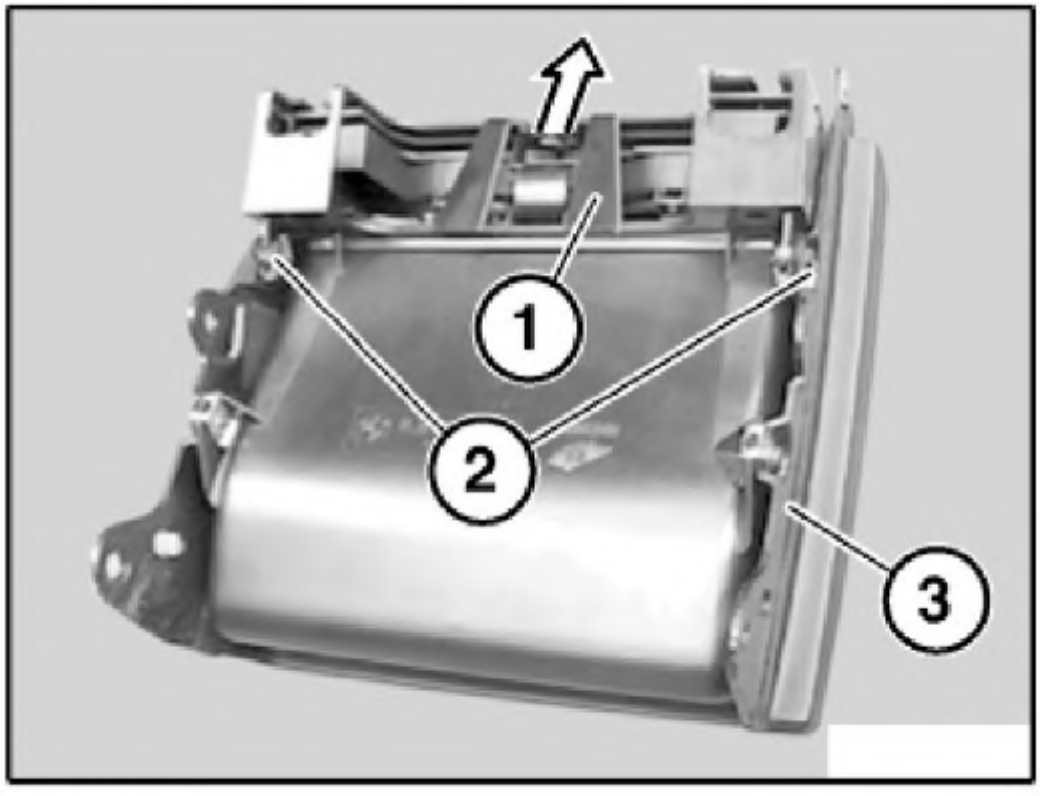


Fig. 136: Detaching Cup Holder From Carrier
Courtesy of BMW OF NORTH AMERICA, INC.

Replacement only:

Open cup holder.

Release screws (1) and detach molding (2).

Detach metal nuts (4) from cup holder (3).

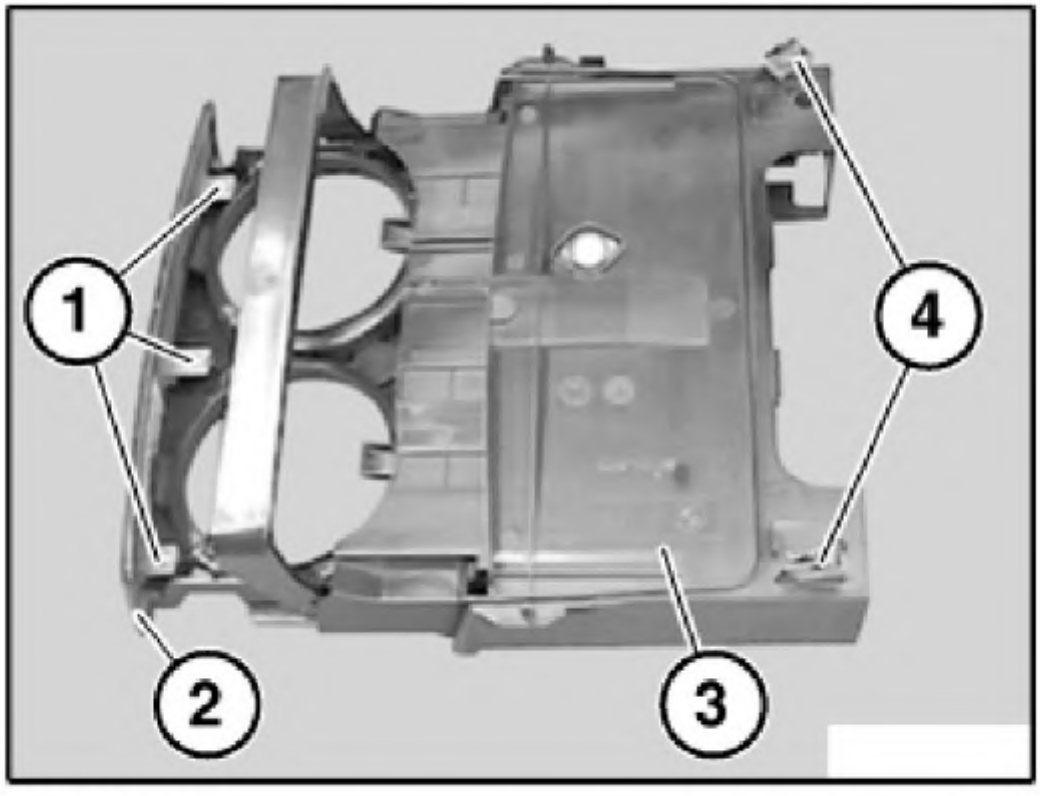


Fig. 137: Detaching Metal Nuts From Cup Holder
Courtesy of BMW OF NORTH AMERICA, INC.

51 16 210 REMOVING AND INSTALLING/REPLACING TRIM FOR PRESELECTOR KNOB

NOTE: Apply handbrake and move preselector knob (1) max. to rear (risk of damage to interior mirror).

Do not twist preselector knob (1) when removing; otherwise turning lock in knob (1) will be sheared off.

Pull off preselector knob (1) with a forceful jerk.

Installation:

Fit preselector knob (1) onto selector lever, align and press down until it can be felt to snap into place.

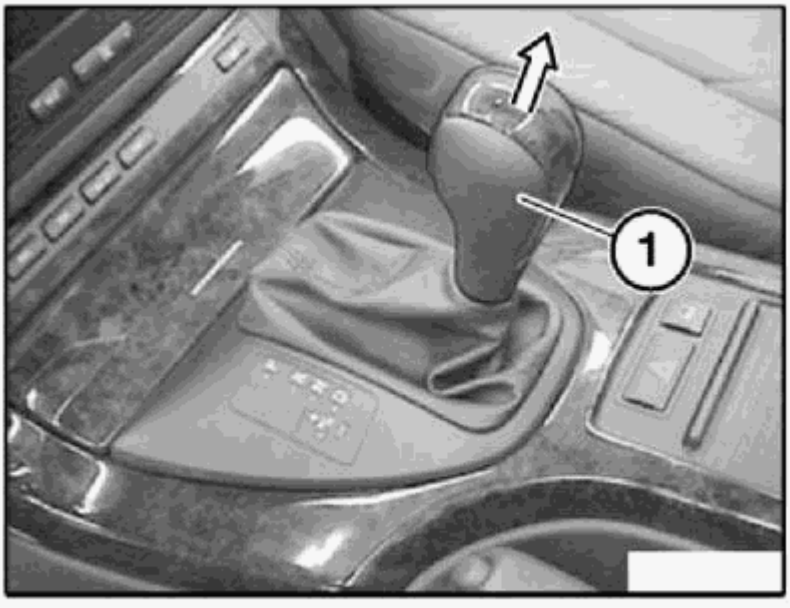


Fig. 138: Fitting Preselector Knob Onto Selector Lever
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Push rubber gaiter (1) down until groove (2) is fully exposed.

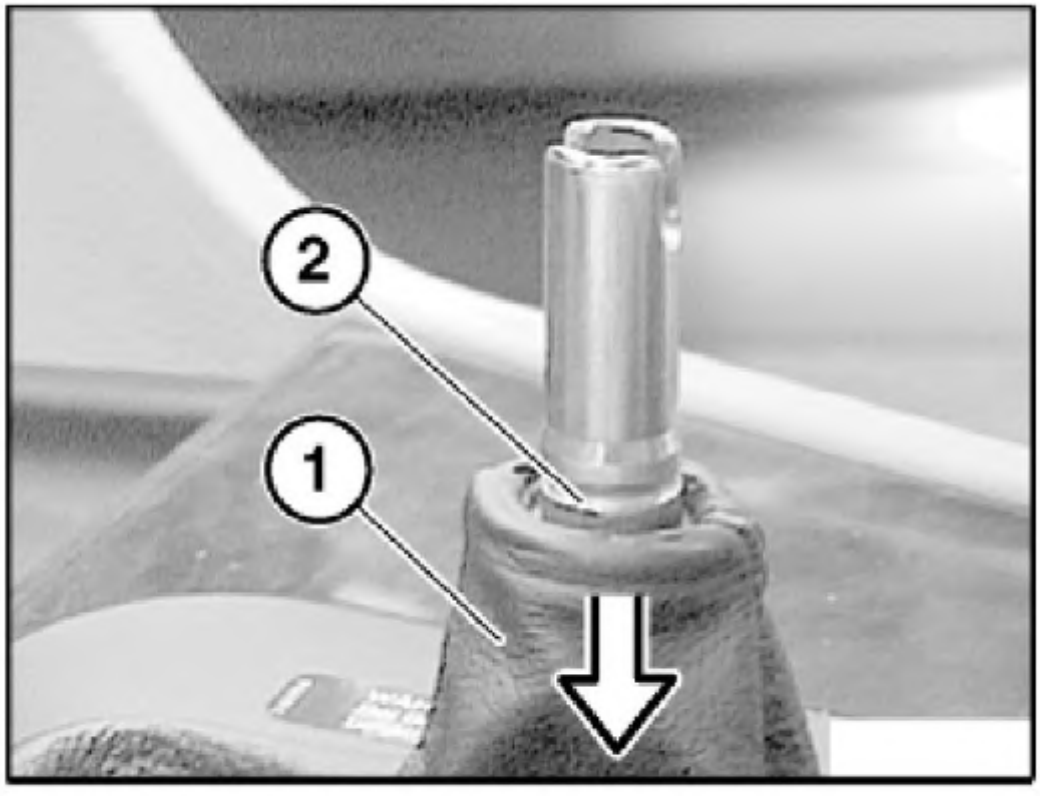


Fig. 139: Pushing Rubber Gaiter Down
Courtesy of BMW OF NORTH AMERICA, INC.

Remove trim (1) with rubber gaiter (2) from center console.

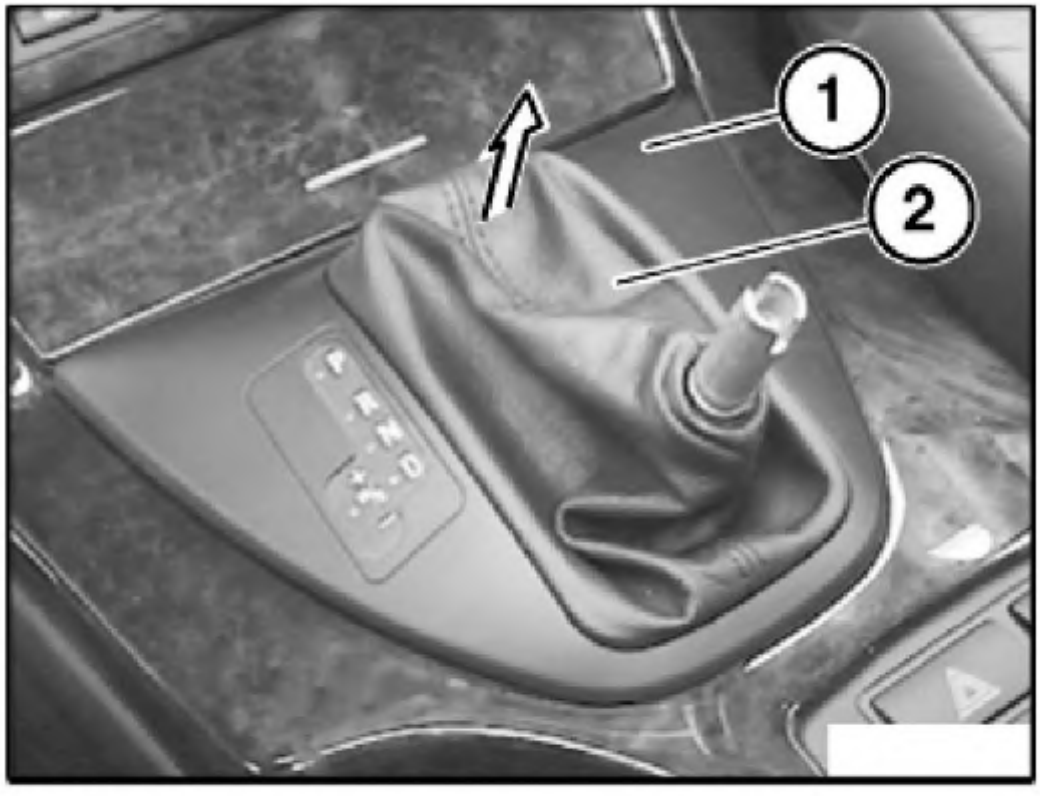


Fig. 140: Removing Trim With Rubber Gaiter From Center Console
Courtesy of BMW OF NORTH AMERICA, INC.

Disconnect plug connections (1) and remove trim (2).

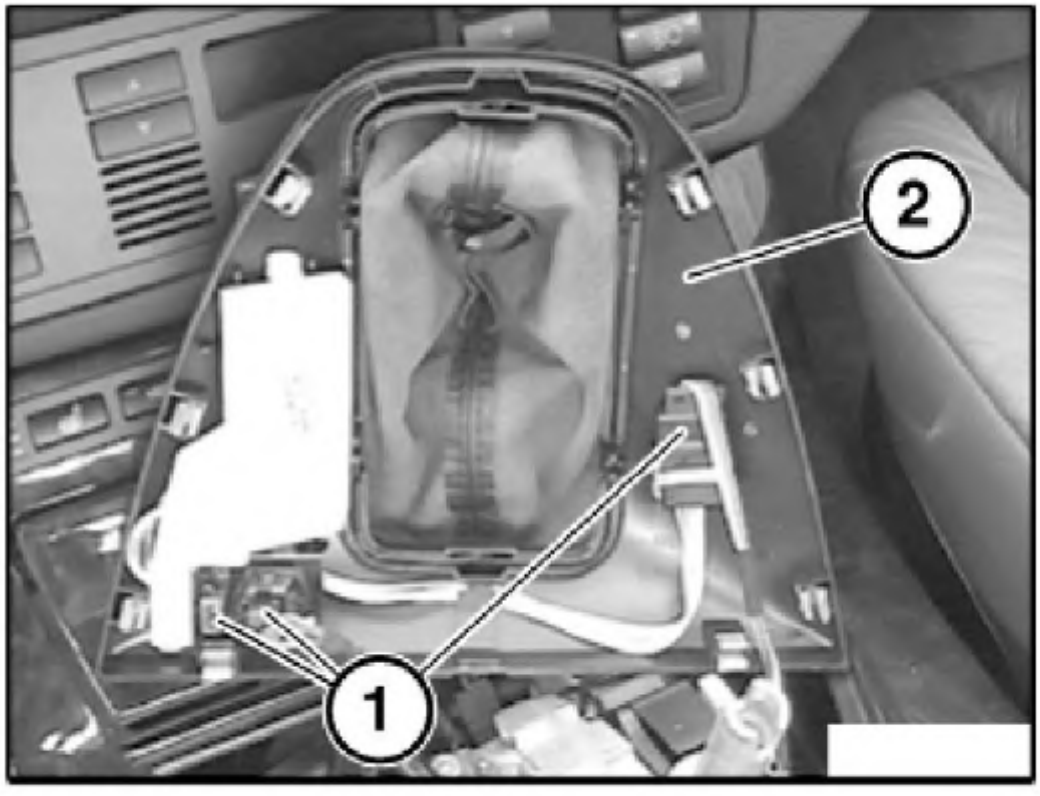


Fig. 141: Disconnecting Plug Connections And Remove Trim
Courtesy of BMW OF NORTH AMERICA, INC.

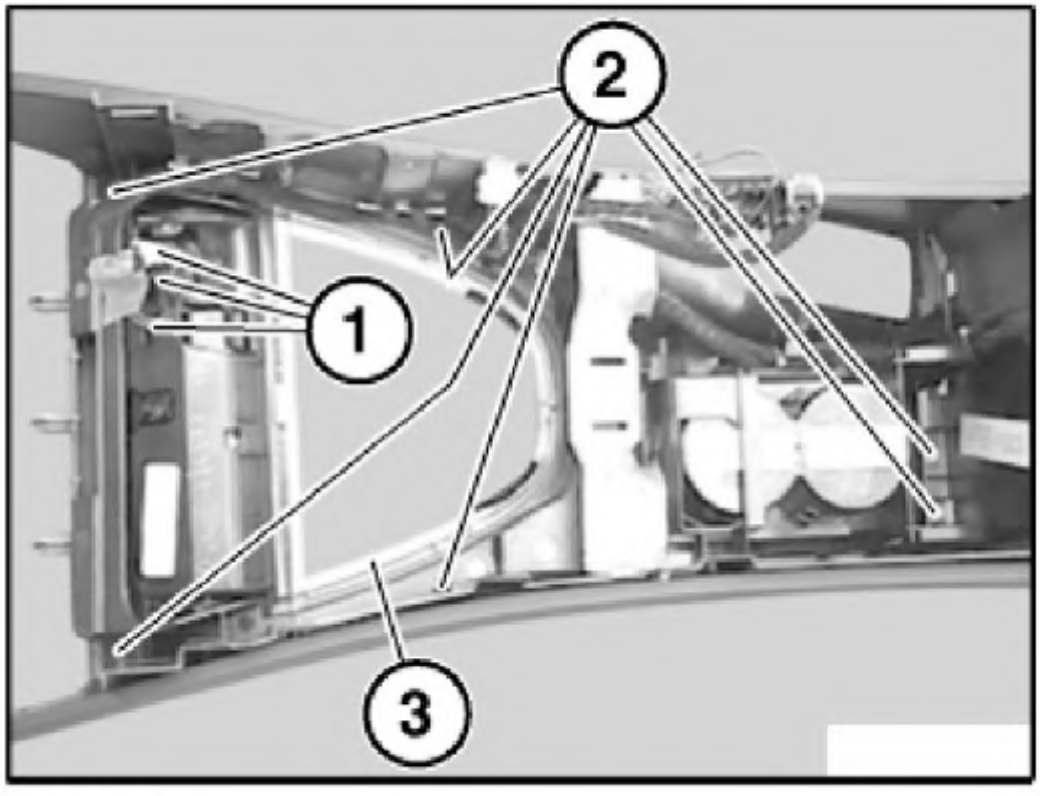
51 16 220 REPLACING TRIMS FOR CENTER CONSOLE

Remove oddments tray.

Disconnect plug connection (1).

Release screws (2).

Remove base (3) for center console and place on a clean surface.



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Fig. 142: Removing Base For Centre Console
Courtesy of BMW OF NORTH AMERICA, INC.

NOTE: The operation "Removing base for center console" ends here.

Removing Front Cup Holder:

Release screws (1).

Remove cup holder (2) from base (3) for center console.

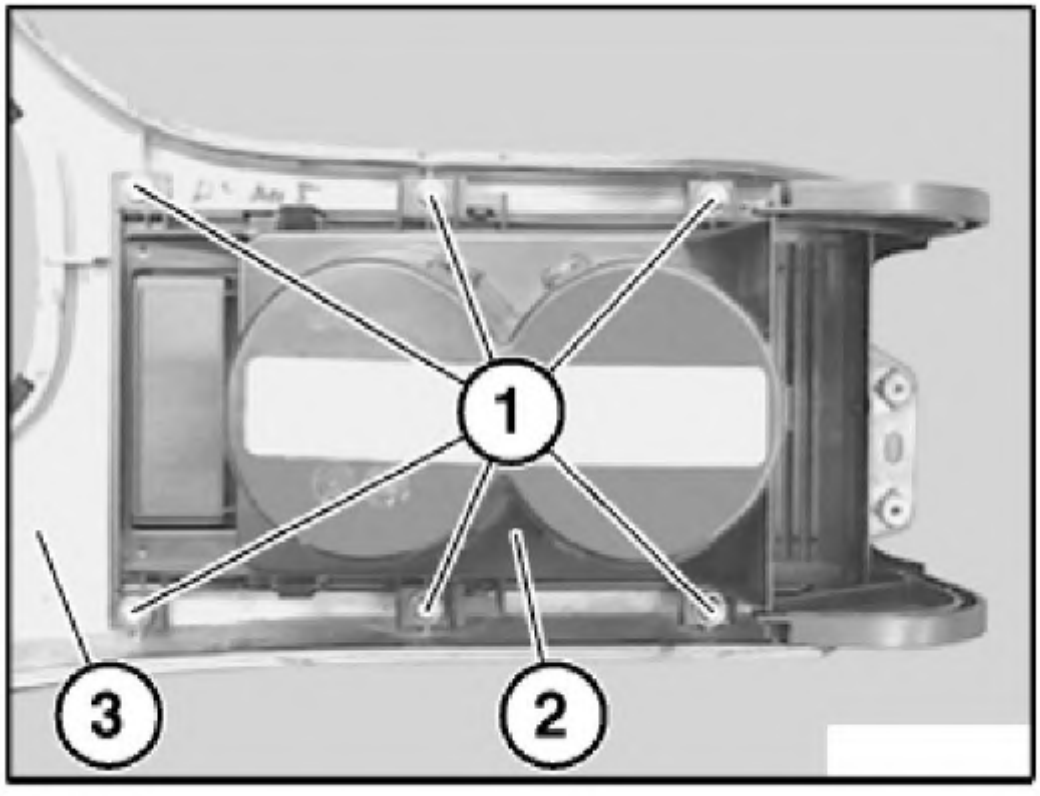
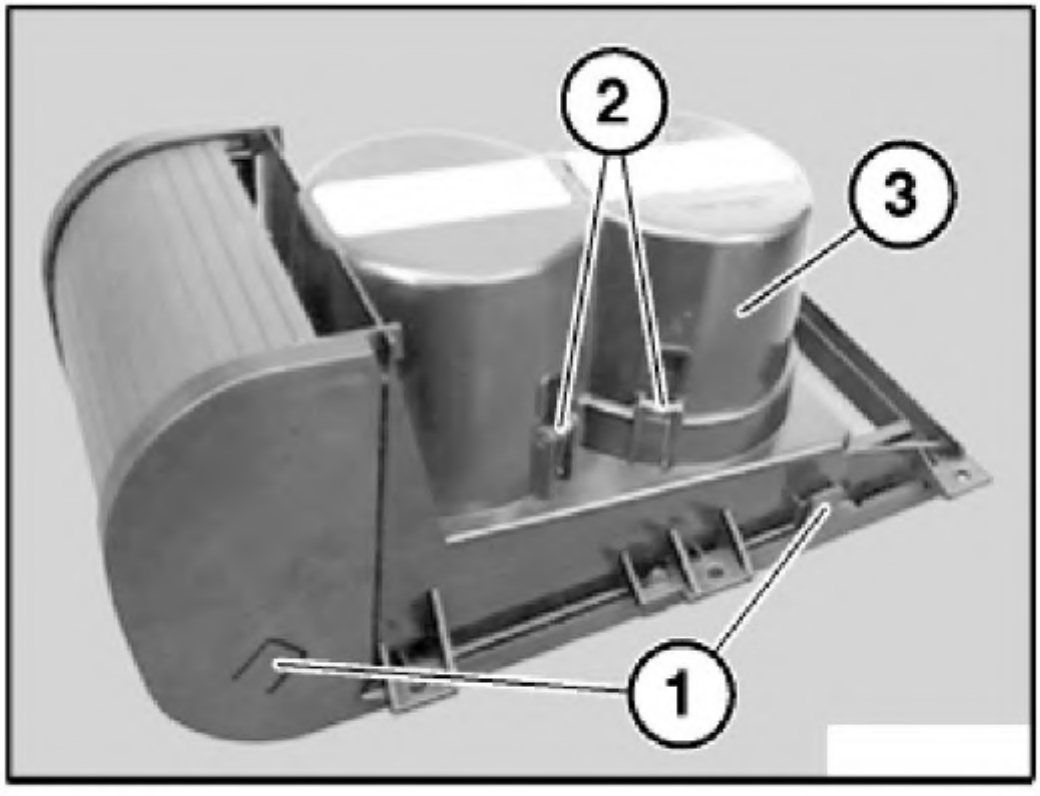


Fig. 143: Removing Cup Holder From Base For Center Console
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Left/right catches (1) must be correctly secured.

All springs (2) on cup holder (3) must not be damaged.



G03252806

Fig. 144: Checking Springs On Cup Holder
Courtesy of BMW OF NORTH AMERICA, INC.

Removing Decorative Trim On Front Ashtray Cover:

Release screws (1) and remove decorative trim from ashtray cover.

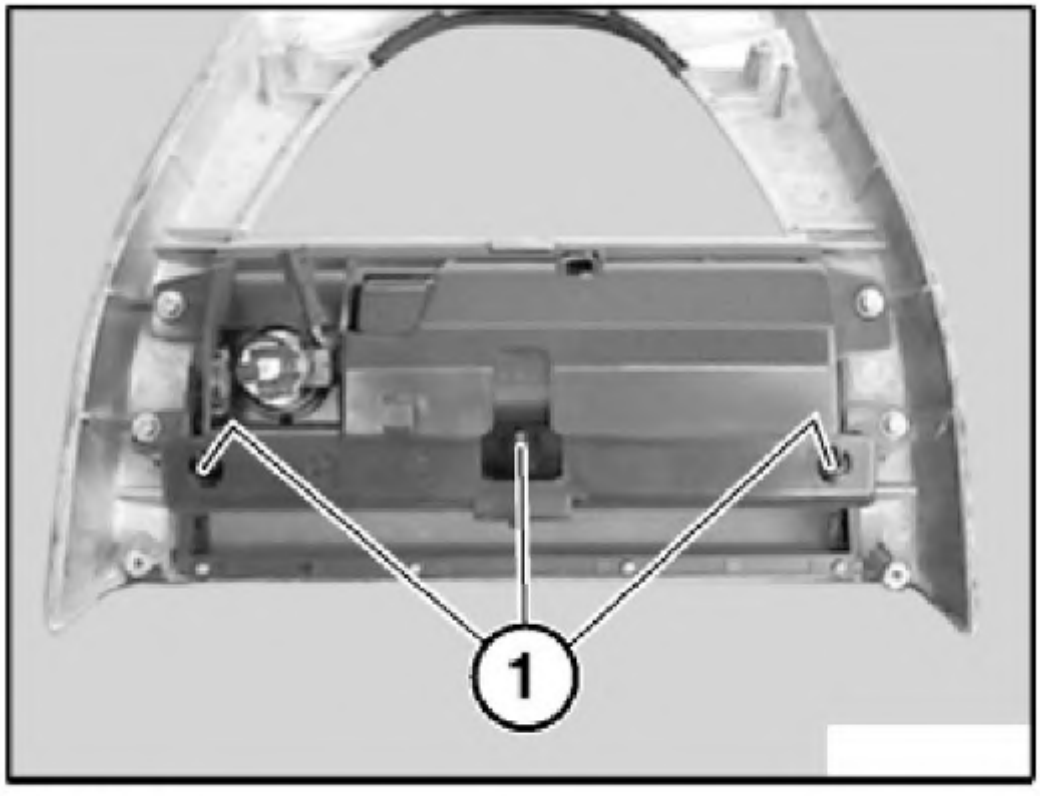
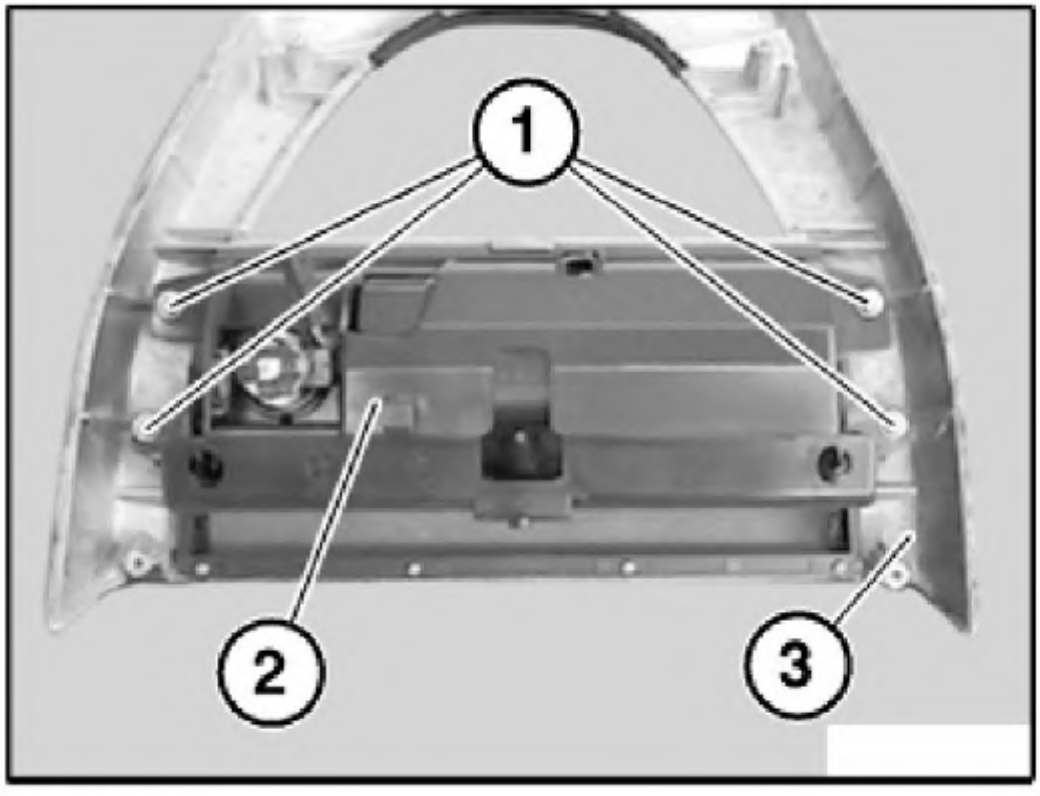


Fig. 145: Removing Decorative Trim From Ashtray Cover
Courtesy of BMW OF NORTH AMERICA, INC.

Removing Front Ashtray:

Release screws (1) and remove ashtray (2) from base (3) for center console.



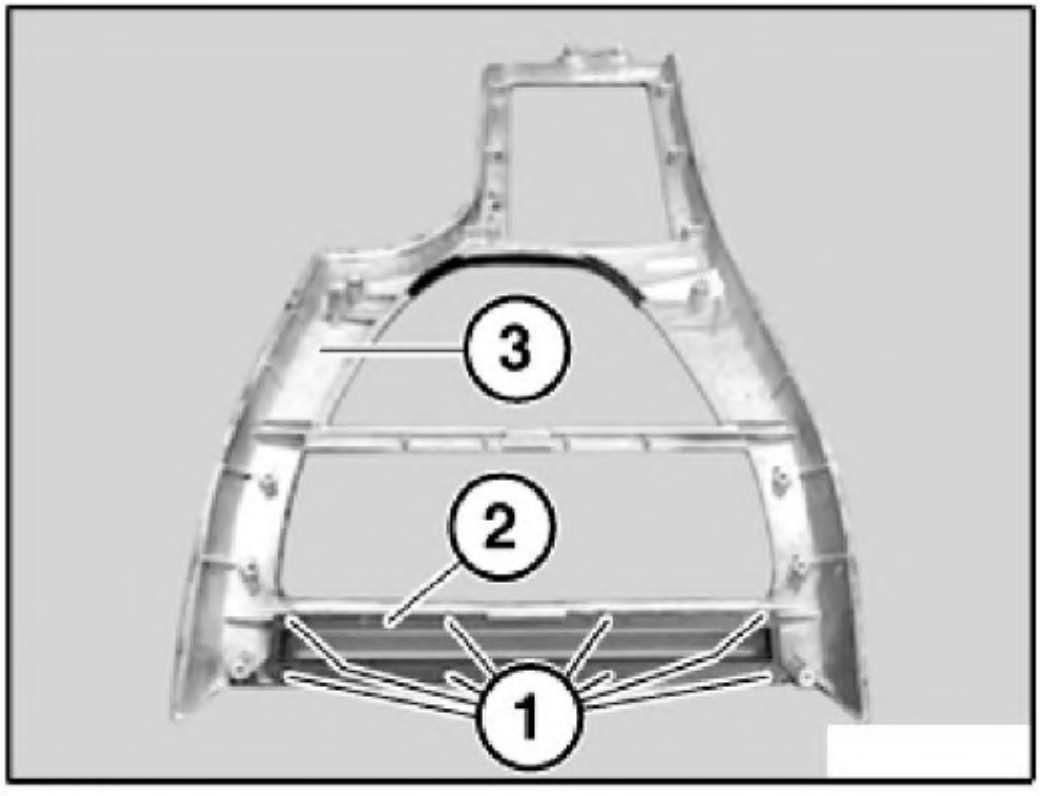
G03252808

Fig. 146: Removing Ashtray From Base
Courtesy of BMW OF NORTH AMERICA, INC.

Replacement Of Base Of Center Console Only:

Release screws (1).

Remove trim (2) for switch from base (3) for center console.



G03252809

Fig. 147: Removing Trim For Switch From Base
Courtesy of BMW OF NORTH AMERICA, INC.

51 16 221 REPLACING A CLIPPED FINISHER (DECORATIVE STRIP ON PANEL FOR INSTRUMENT PANEL, FRONT OR REAR DOOR)

Special tools required:

- 00 9 321

WARNING: Version with side airbag, head airbag, passenger airbag: Follow safety instructions for working on cars with airbag systems.

Replacing Clips (Hutfix):

Lift out clip (1).

Installation:

Clip (1) must not be damaged.

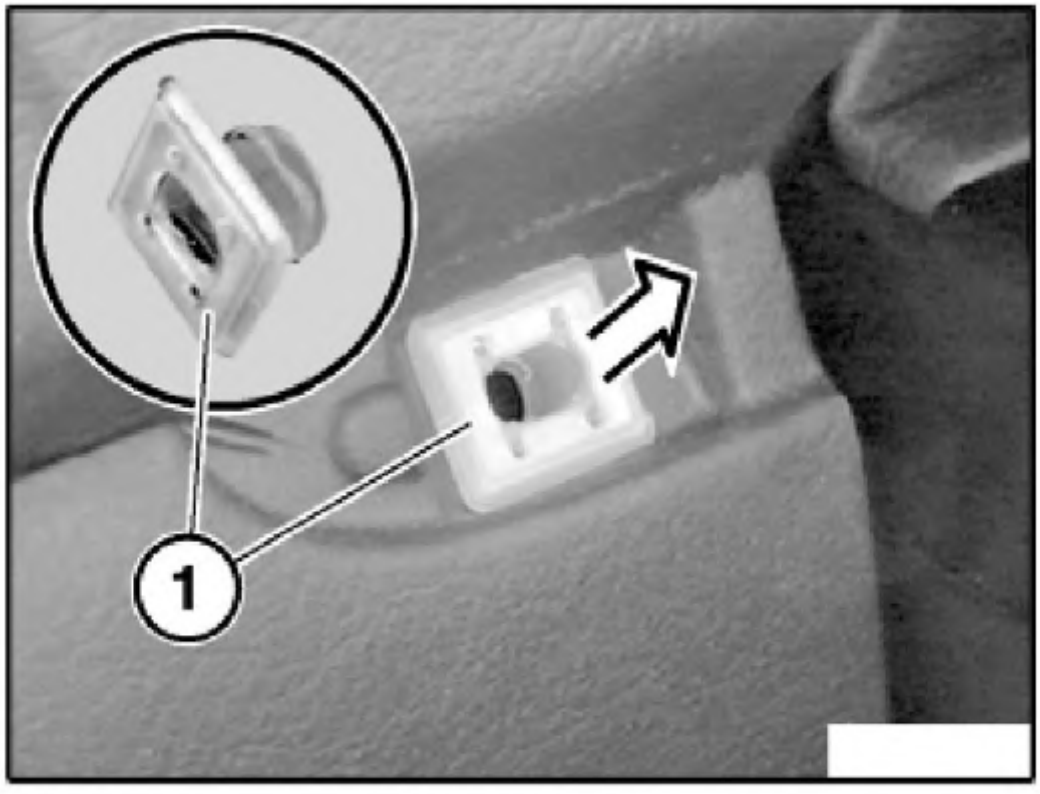


Fig. 148: Lifting Out Clip
Courtesy of BMW OF NORTH AMERICA, INC.

Left Decorative Strip On Steering Column:

Insert special tool 00 9 321 (fishbone) at side and unclip decorative strip (1) next to retaining pin (2).

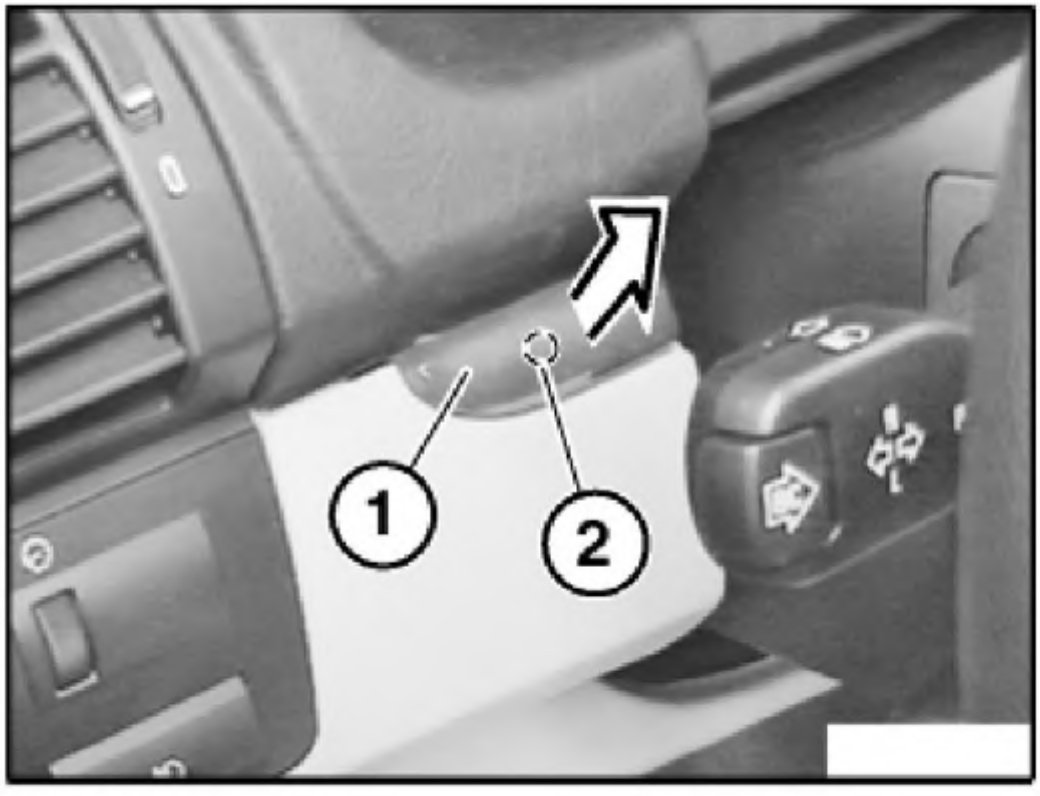


Fig. 149: Unclipping Decorative Strip
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Pin (1) of decorative strip (2) must not be damaged.

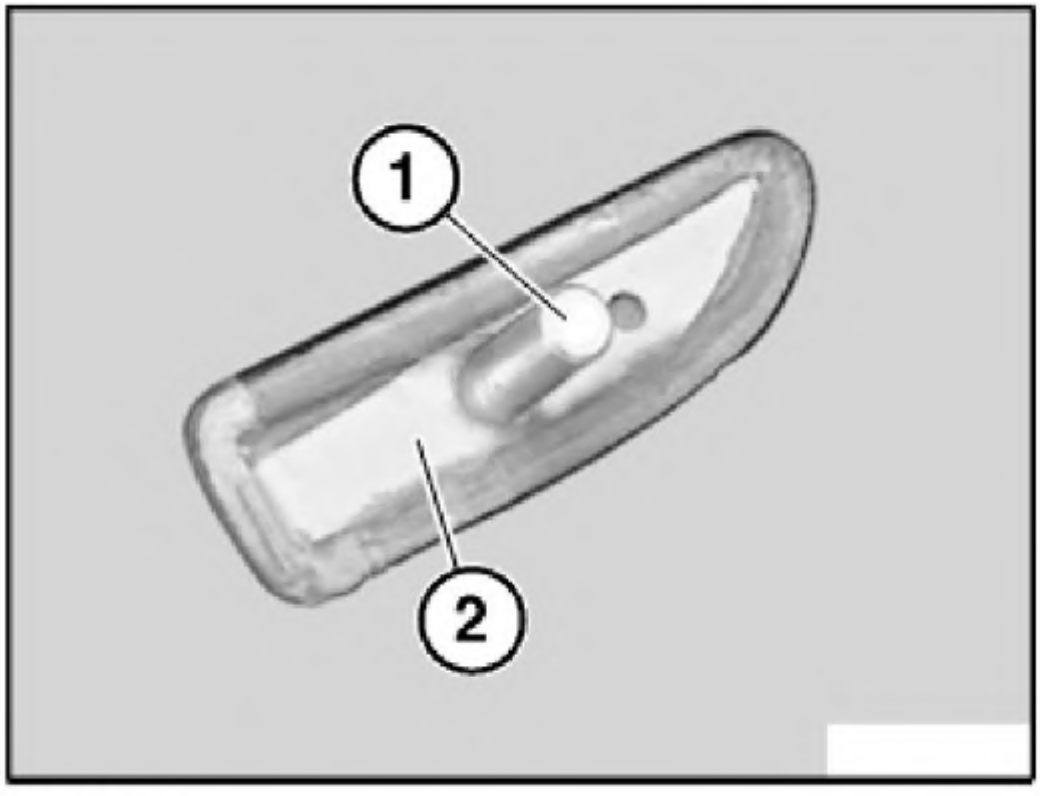


Fig. 150: Checking Pin Of Decorative Strip
Courtesy of BMW OF NORTH AMERICA, INC.

Right Decorative Strip On Steering Column:

Insert special tool 00 9 321 (fishbone) at side and unclip decorative strip (1) next to retaining pin (2).

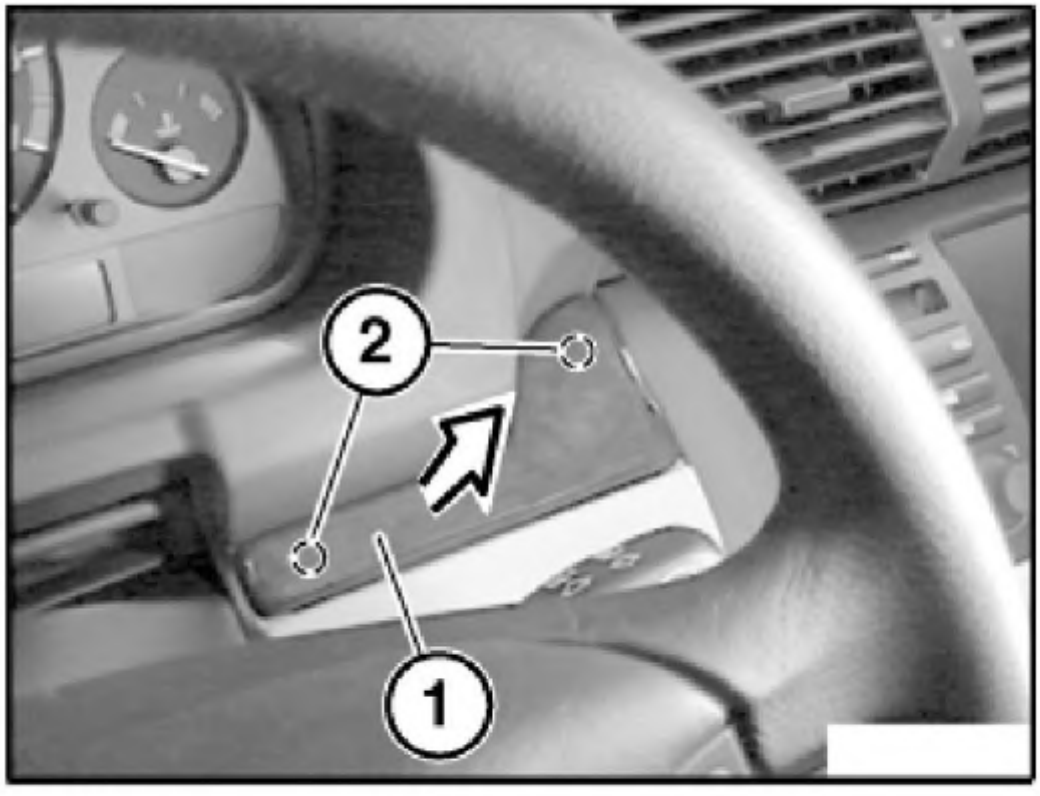


Fig. 151: Uncliping Decorative Strip
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Pin (1) of decorative strip (2) must not be damaged.

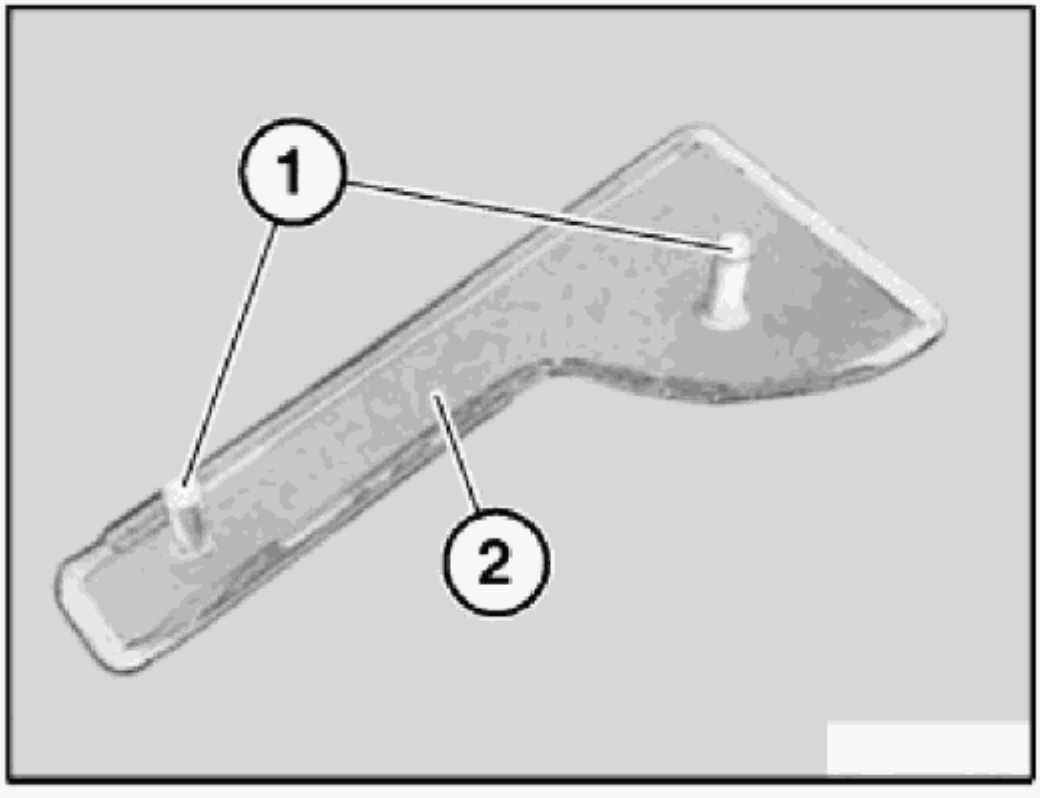


Fig. 152: Checking Pin Of Decorative Strip
Courtesy of BMW OF NORTH AMERICA, INC.

Decorative Strip Above Glovebox:

Insert special tool 00 9 321 at side and with second special tool 00 9 321 next to retaining pin unclip decorative strip (1).

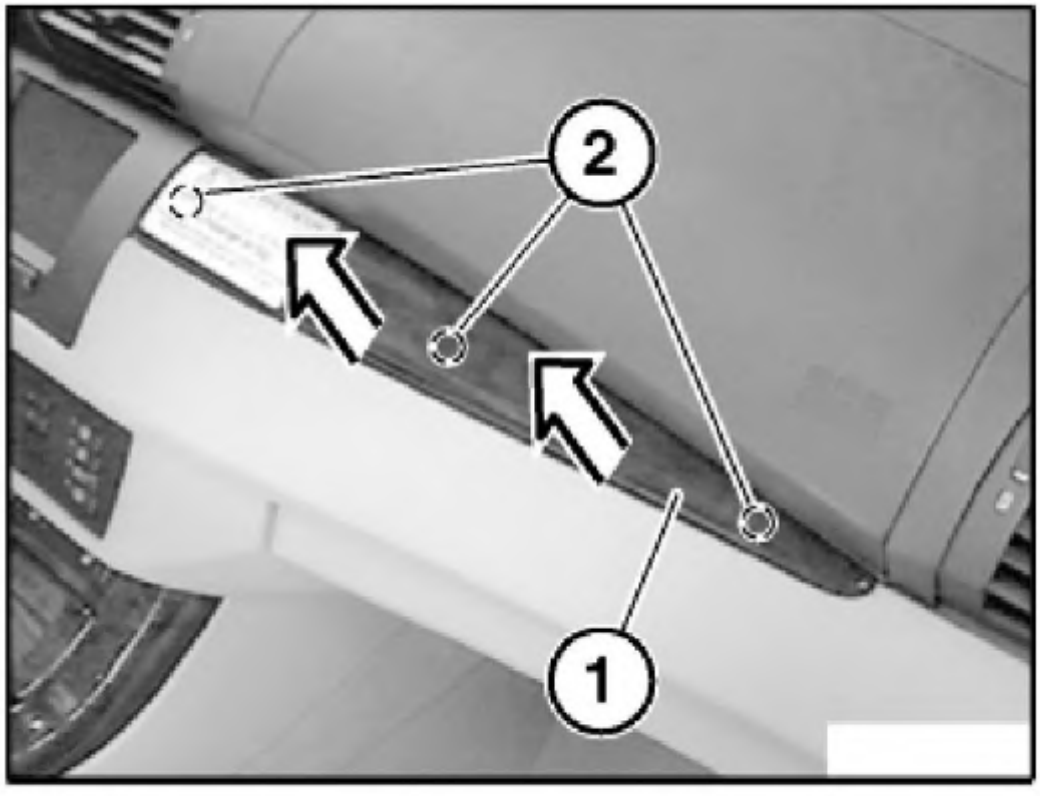


Fig. 153: Inserting Special Tool
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Pin (1) of decorative strip (2) must not be damaged.

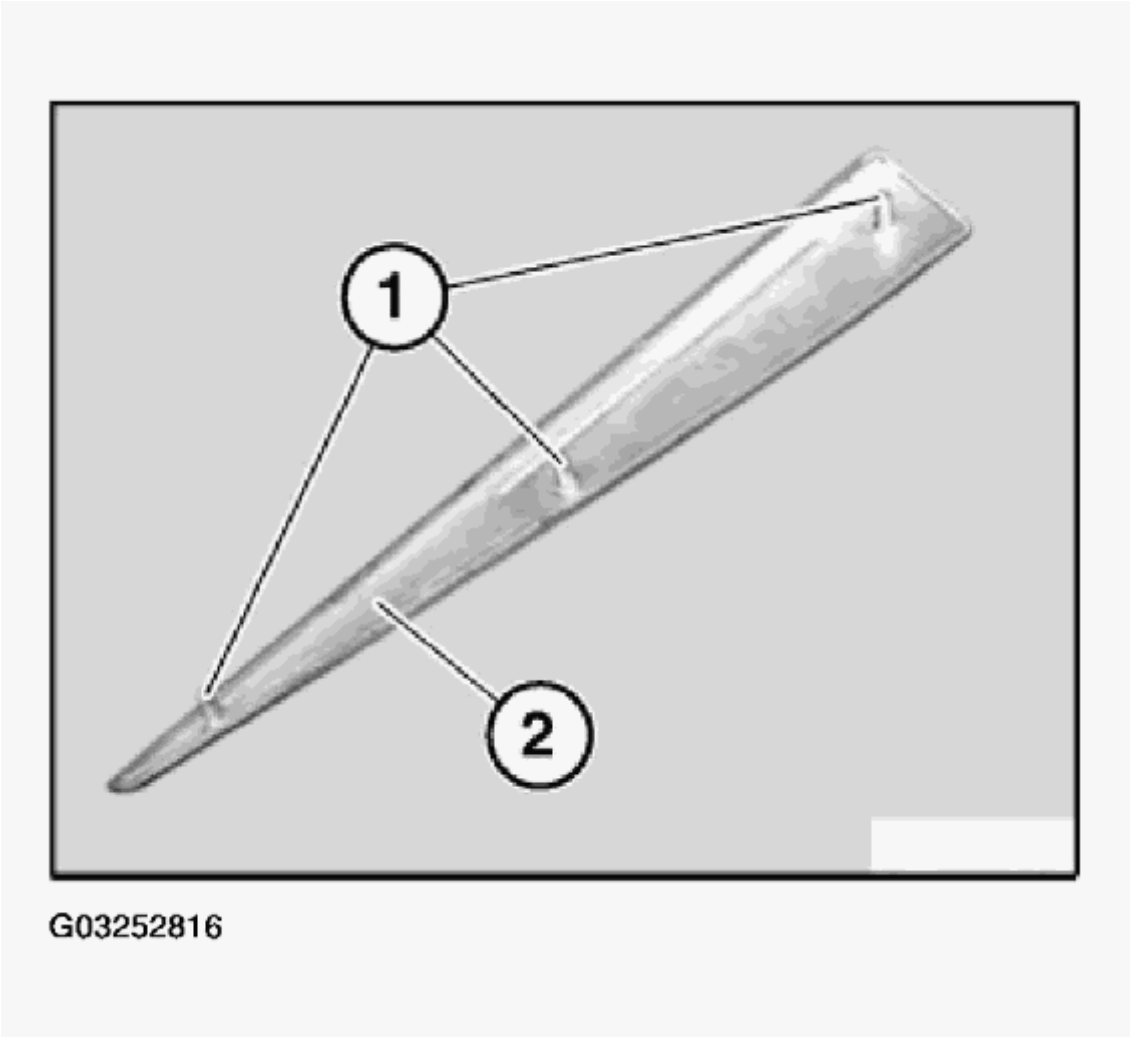
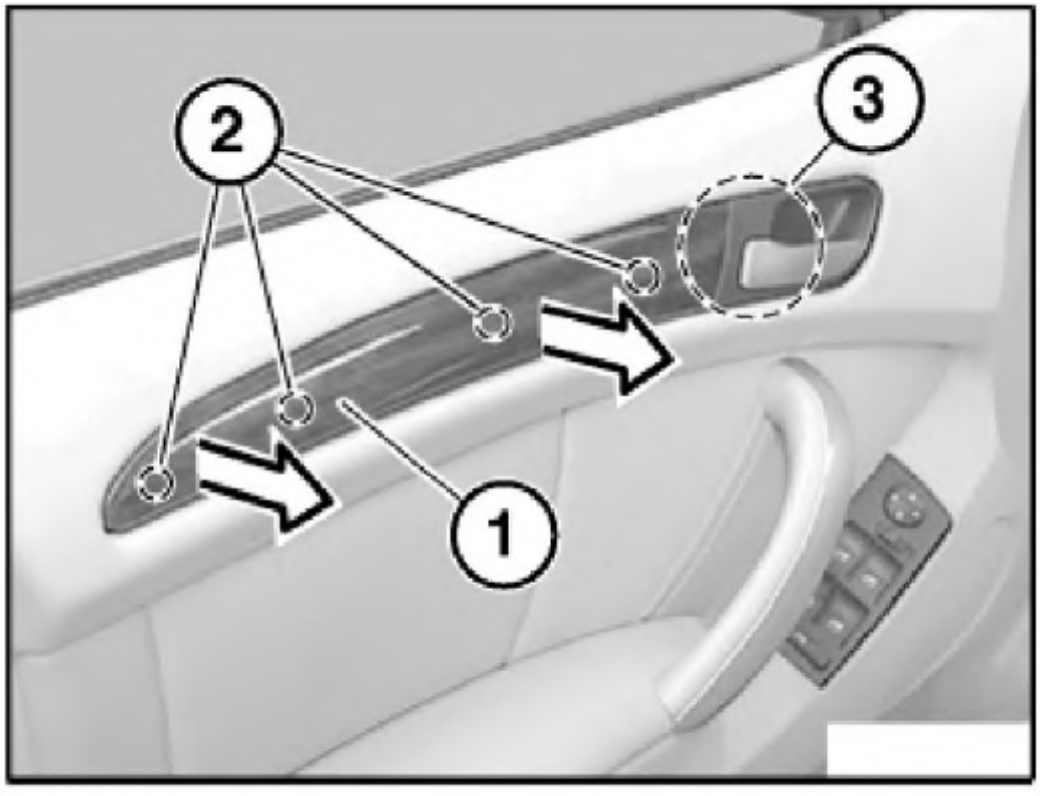


Fig. 154: Checking Pin Of Decorative Strip
Courtesy of BMW OF NORTH AMERICA, INC.

Decorative Strip On Front Door:

Insert special tool 00 9 321 at side and with second special tool 00 9 321 next to retaining pin (2) unclip decorative strip (1).

At front in area (3) of inside door handle, pull decorative strip (1) out of guides.



G03252817

Fig. 155: Pulling Decorative Strip Out Of Guides
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Pins (1) and mounts (3) of decorative strip (2) must not be damaged.

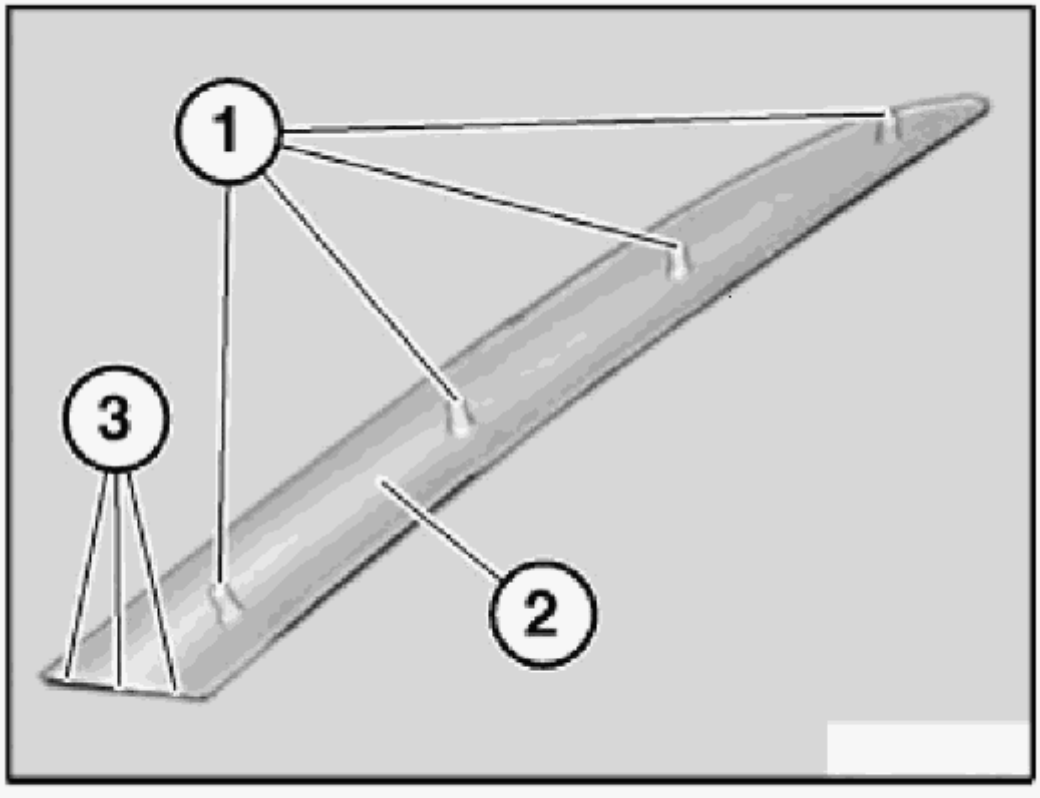
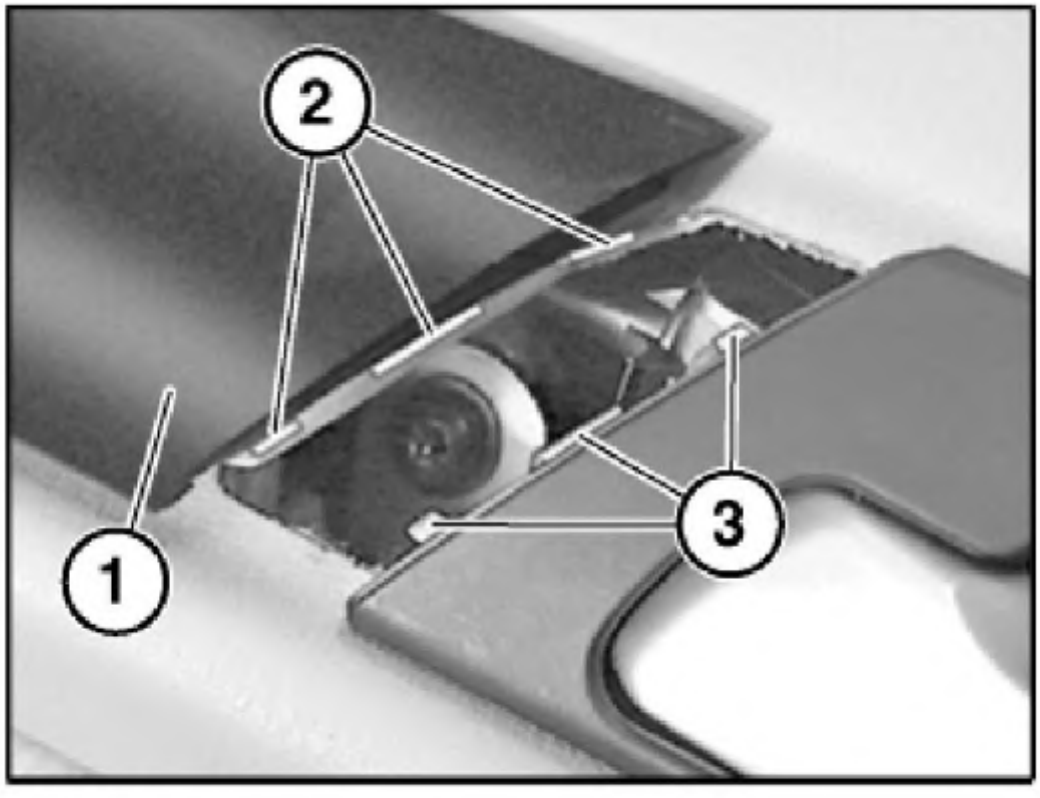


Fig. 156: Checking Pins And Mounts Of Decorative Strip
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

First slide decorative strip (1) with guides (2) into recessed handle (3) and then clip in.



G03252819

Fig. 157: Sliding Decorative Strip With Guides Into Recessed Handle And Then Clip In
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

If necessary, replace faulty grommets (1) on door trim panel (2).

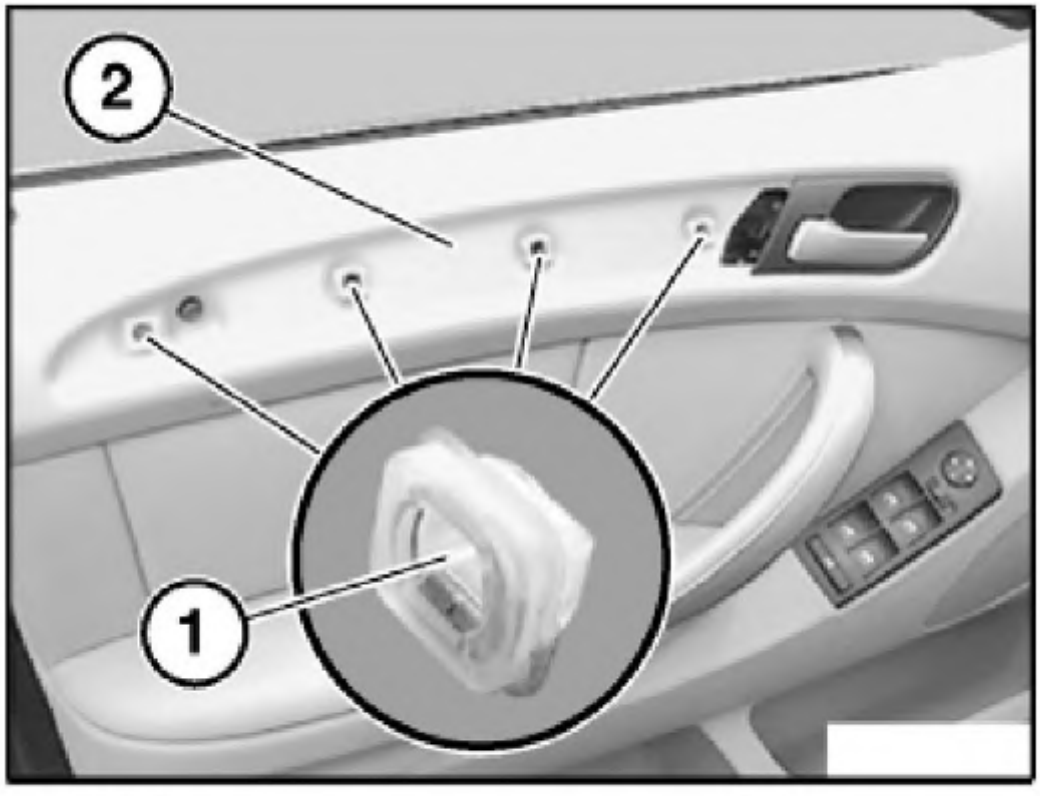
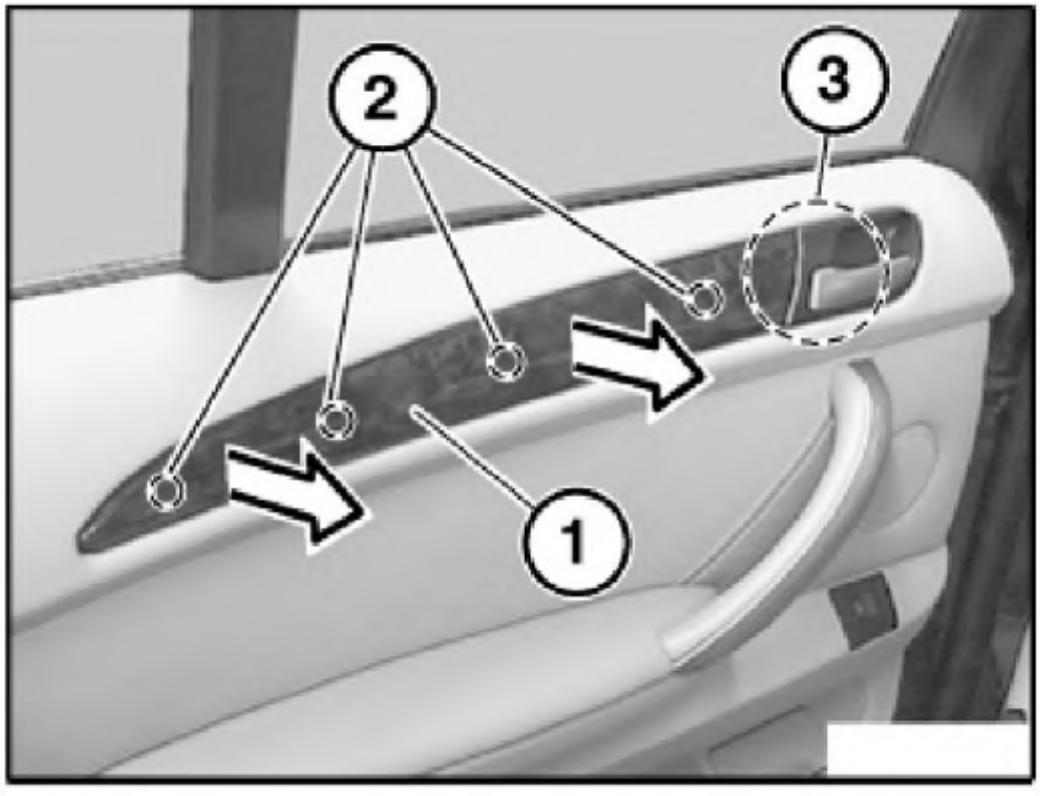


Fig. 158: Checking Faulty Grommets On Door Trim Panel
Courtesy of BMW OF NORTH AMERICA, INC.

Decorative Strip On Rear Door:

Insert special tool 00 9 321 at side and with second special tool 00 9 321 next to retaining pin (2) unclip decorative strip (1).

At front in area (3) of inside door handle, pull decorative strip (1) out of guides.



G03252821

Fig. 159: Pulling Decorative Strip Out Of Guides
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Pins (1) and mounts (3) of decorative strip (2) must not be damaged.

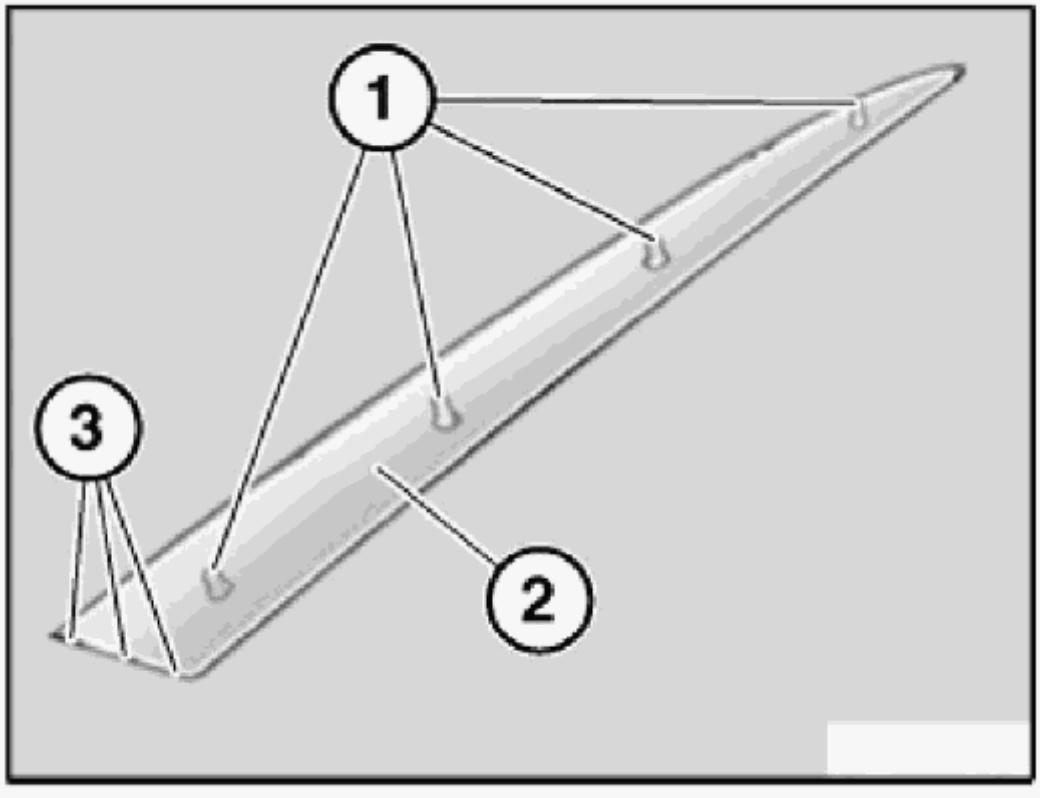
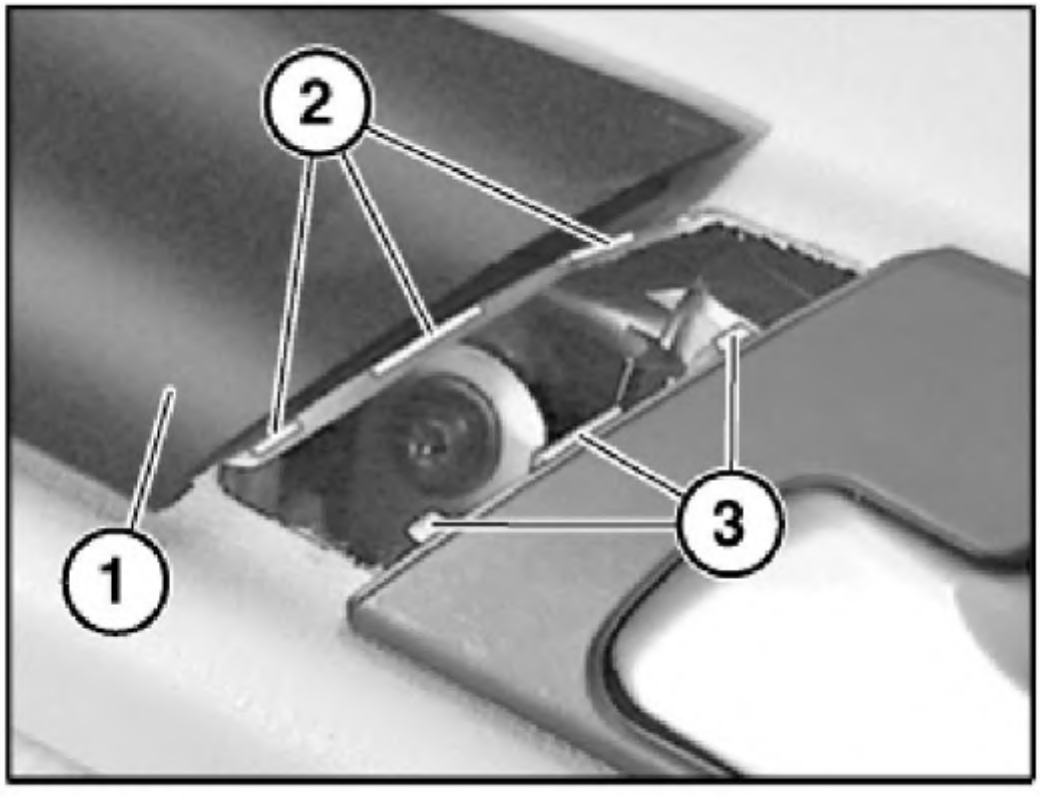


Fig. 160: Checking Pins And Mounts Of Decorative Strip
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Slide decorative strip (1) with guides (2) into grip shell (3) and then clip into place.



G03252823

Fig. 161: Sliding Decorative Strip With Guides Into Grip Shell
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

If necessary, replace faulty grommets (1) on door trim panel (2).

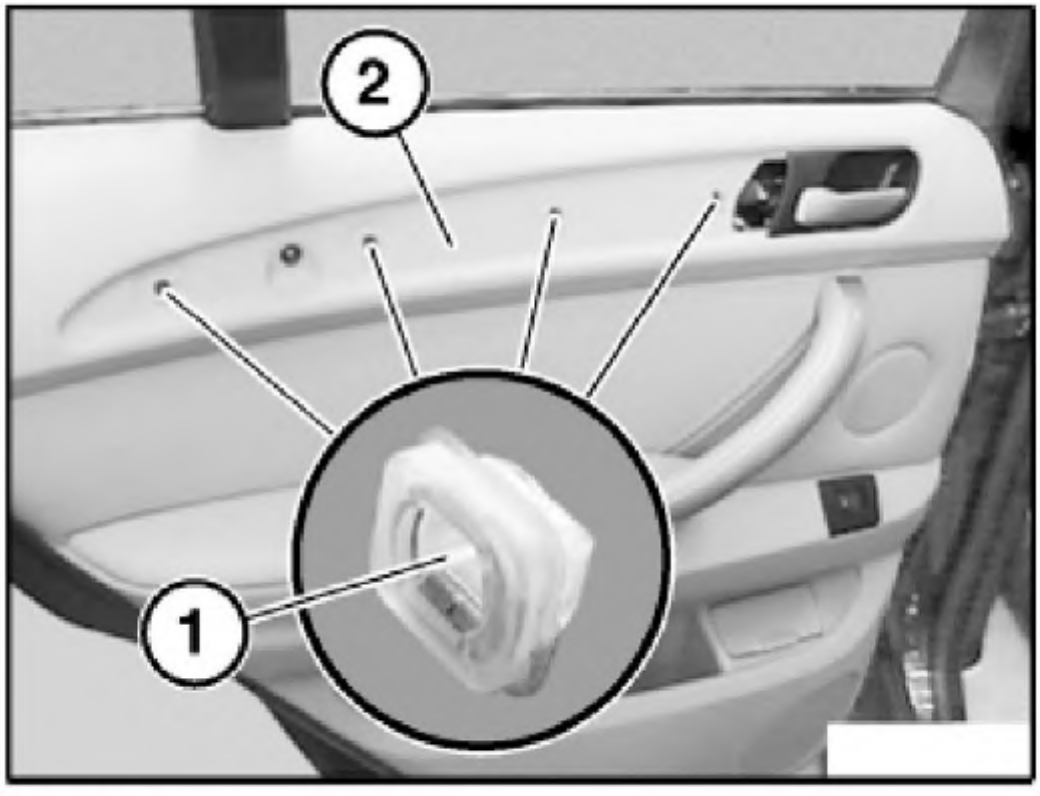


Fig. 162: Checking Faulty Grommets On Door Trim Panel
Courtesy of BMW OF NORTH AMERICA, INC.

51 16 360 REMOVING AND INSTALLING RIGHT GLOVE BOX

Remove bottom right trim panel from instrument panel.

Open glovebox.

Lever out glovebox lamp and disconnect plug connection.

Raise glovebox (1) a little and detach pin (2) from retaining strap (3).

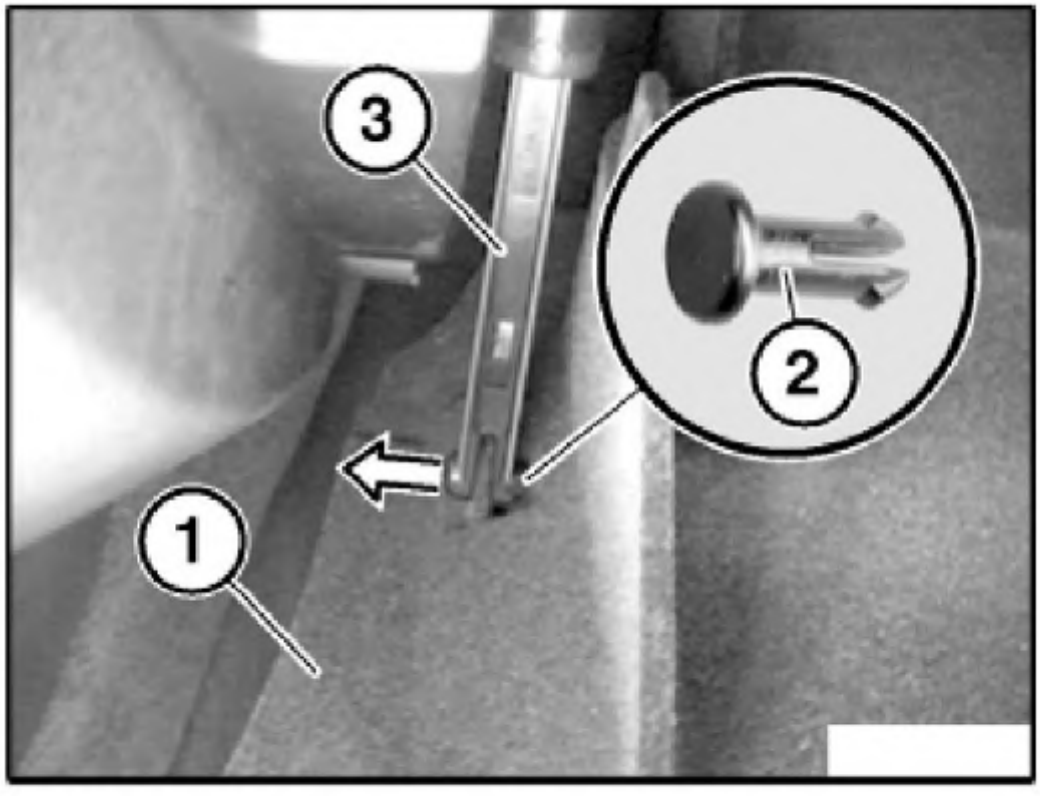


Fig. 163: Detaching Pin From Retaining Strap
Courtesy of BMW OF NORTH AMERICA, INC.

Lever out cover from right glovebox and open fully.

Remove screws (1) and (2).

Release screws (3) and fold down glovebox (4).

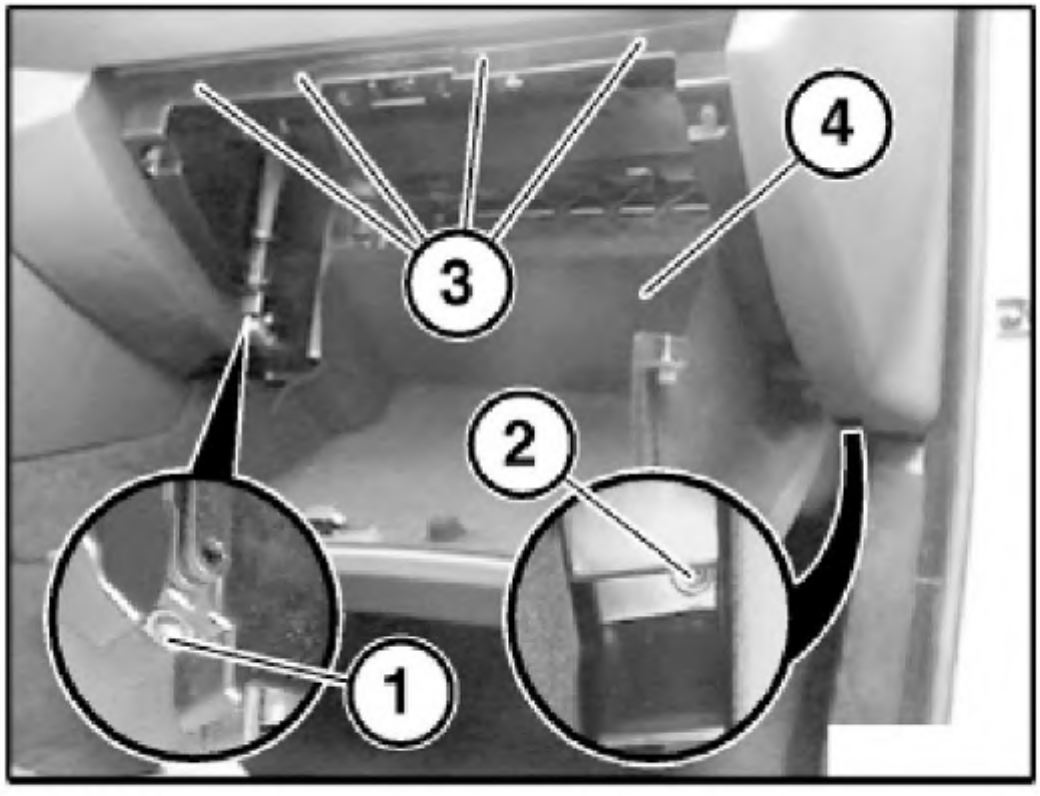
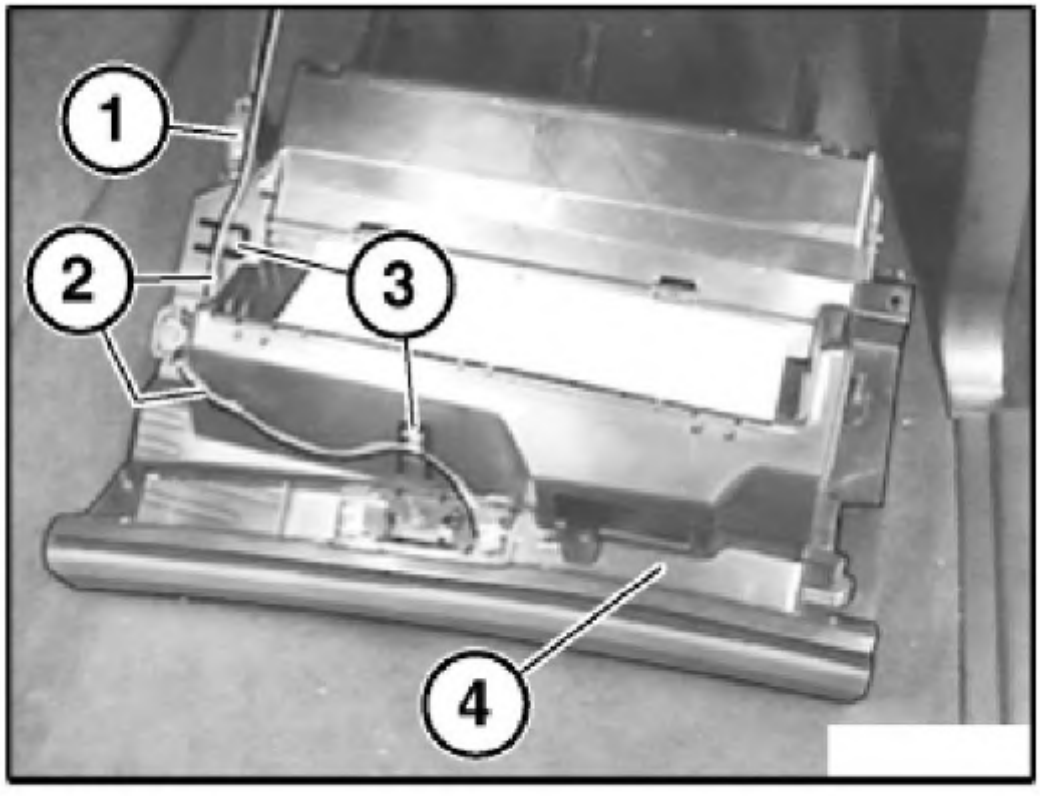


Fig. 164: Releasing Screws And Fold Down Glovebox
Courtesy of BMW OF NORTH AMERICA, INC.

If necessary, disconnect plug connection for portable lamp.

Feed cable (2) out of holder (3) and remove glovebox (4).



G03252827

Fig. 165: Disconnecting Plug Connection For Portable Lamp
Courtesy of BMW OF NORTH AMERICA, INC.

51 16 400 REMOVING AND INSTALLING OR REPLACING SUN BLIND AT FIXED SIDE WINDOW OF LEFT OR RIGHT REAR DOOR

Pull roller sun blind (1) at top towards rear and snap out spring (2) towards top with a small screwdriver.

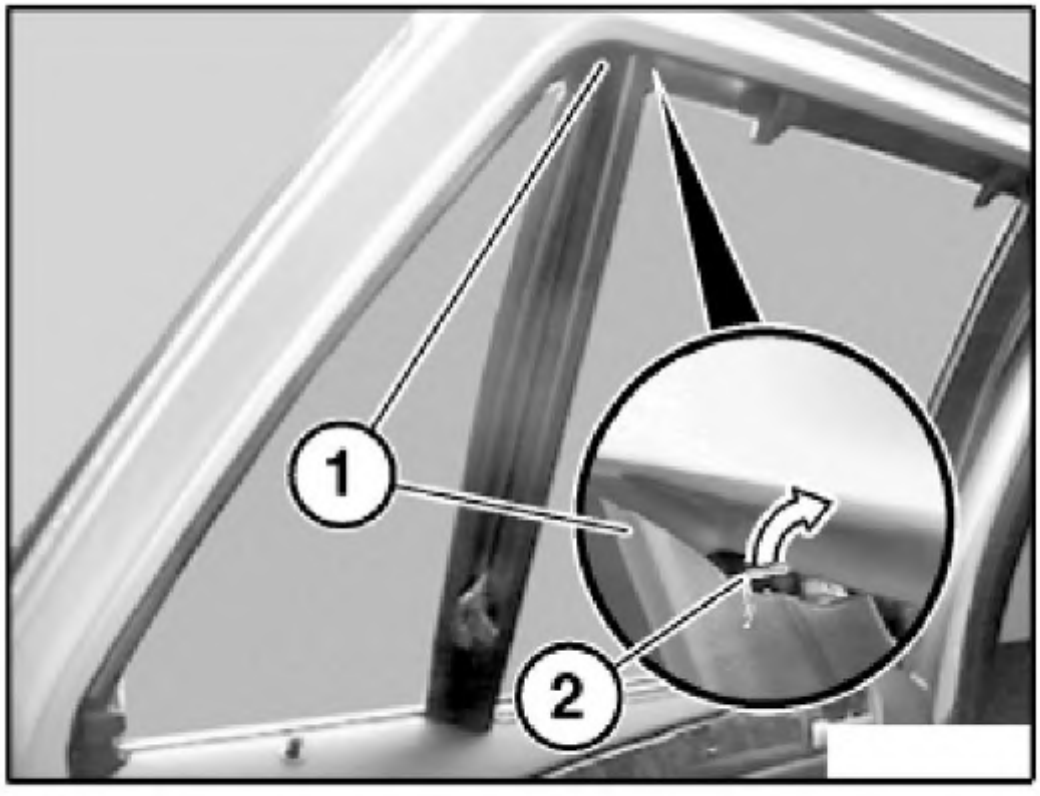


Fig. 166: Pulling Roller Sun Blind At Top Towards Rear
Courtesy of BMW OF NORTH AMERICA, INC.

Remove roller sun blind (1) towards inside/top.

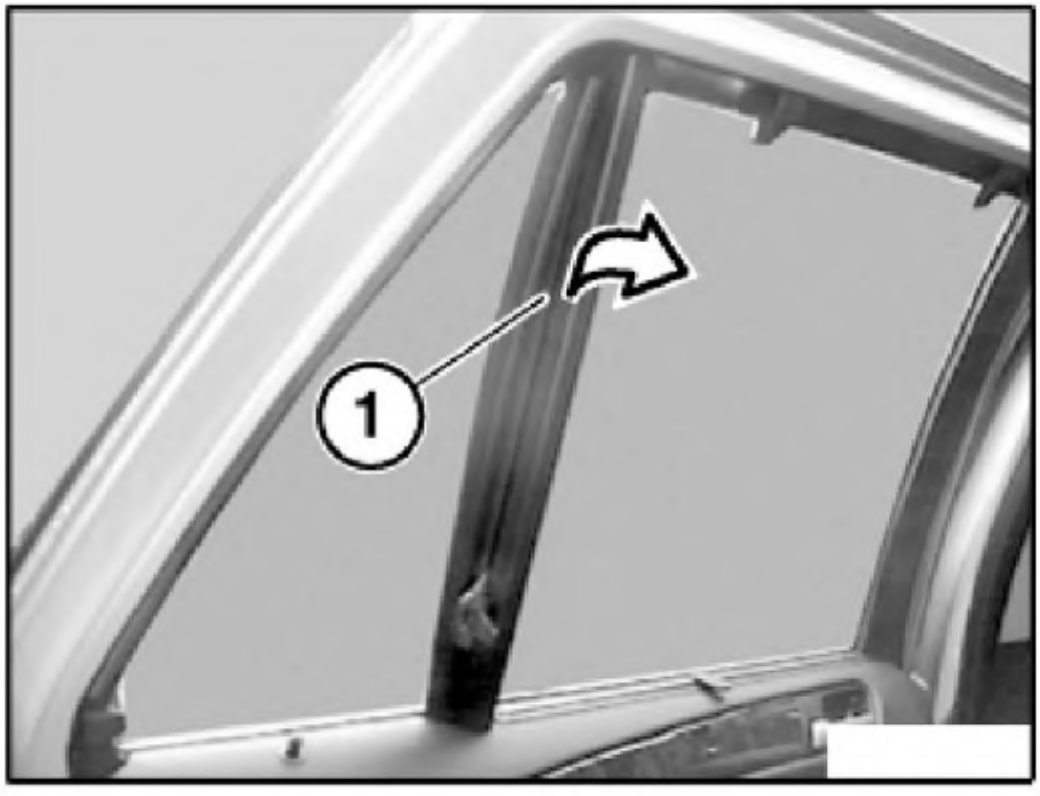


Fig. 167: Removing Roller Sun Blind Towards Inside/Top
Courtesy of BMW OF NORTH AMERICA, INC.

51 16 405 REMOVING AND INSTALLING OR REPLACING BLIND AT SIDE WINDOW OF LEFT OR RIGHT REAR DOOR

Remove rear door trim panel. See **51 42 000 Removing And Installing Rear Left Or Right Door Trim Panel** .

Release screws (1).

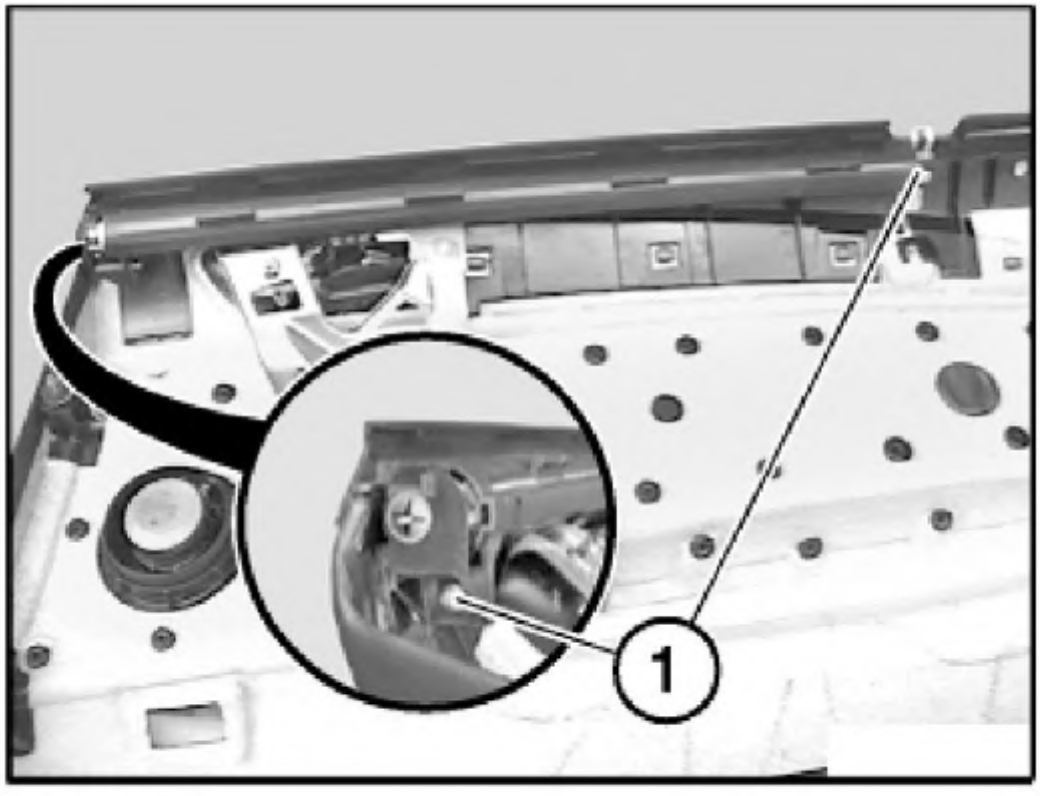


Fig. 168: Removing Roller Blind
Courtesy of BMW OF NORTH AMERICA, INC.

Raise cover (1) and pull out roller sun blind (2).

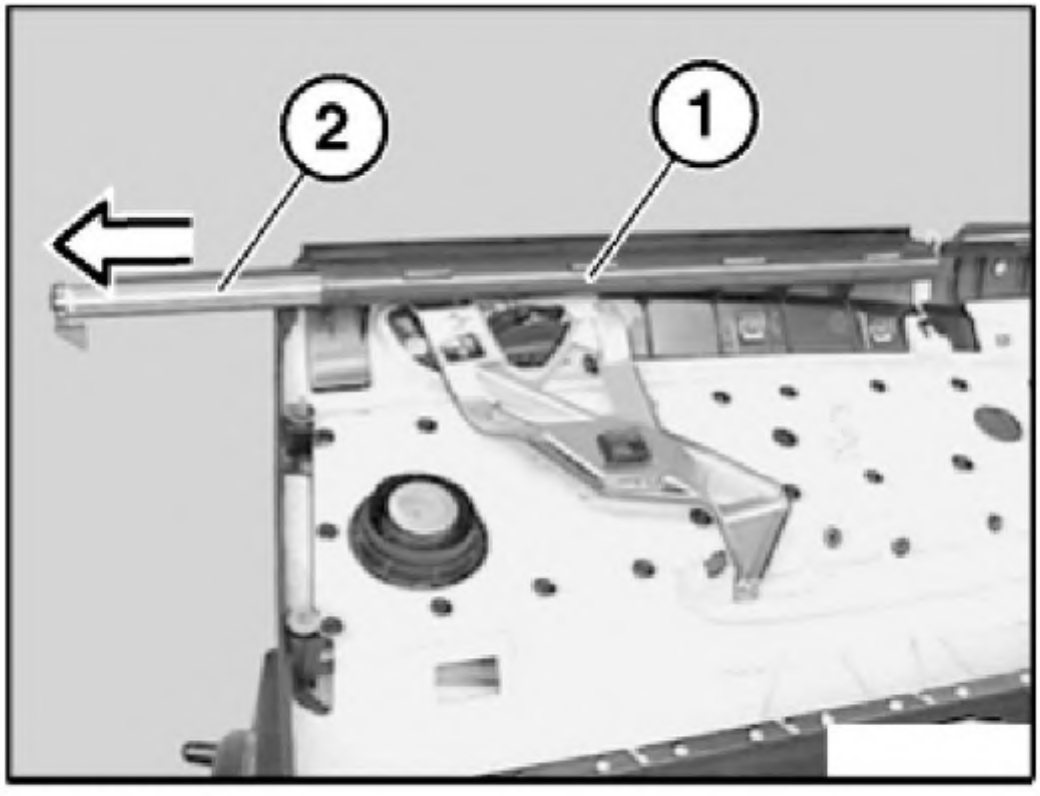


Fig. 169: Pulling Out Roller Sun Blind
Courtesy of BMW OF NORTH AMERICA, INC.

51 16 450 REMOVING AND INSTALLING/REPLACING REAR LEFT/RIGHT GRAB HANDLE

Operation is identical to:

Removing and installing/replacing front grab handle. See **51 16 480 Removing And Installing Or Replacing Front Grab Handle** .

51 16 480 REMOVING AND INSTALLING OR REPLACING FRONT GRAB HANDLE

Fold finishers down and unfasten screws.

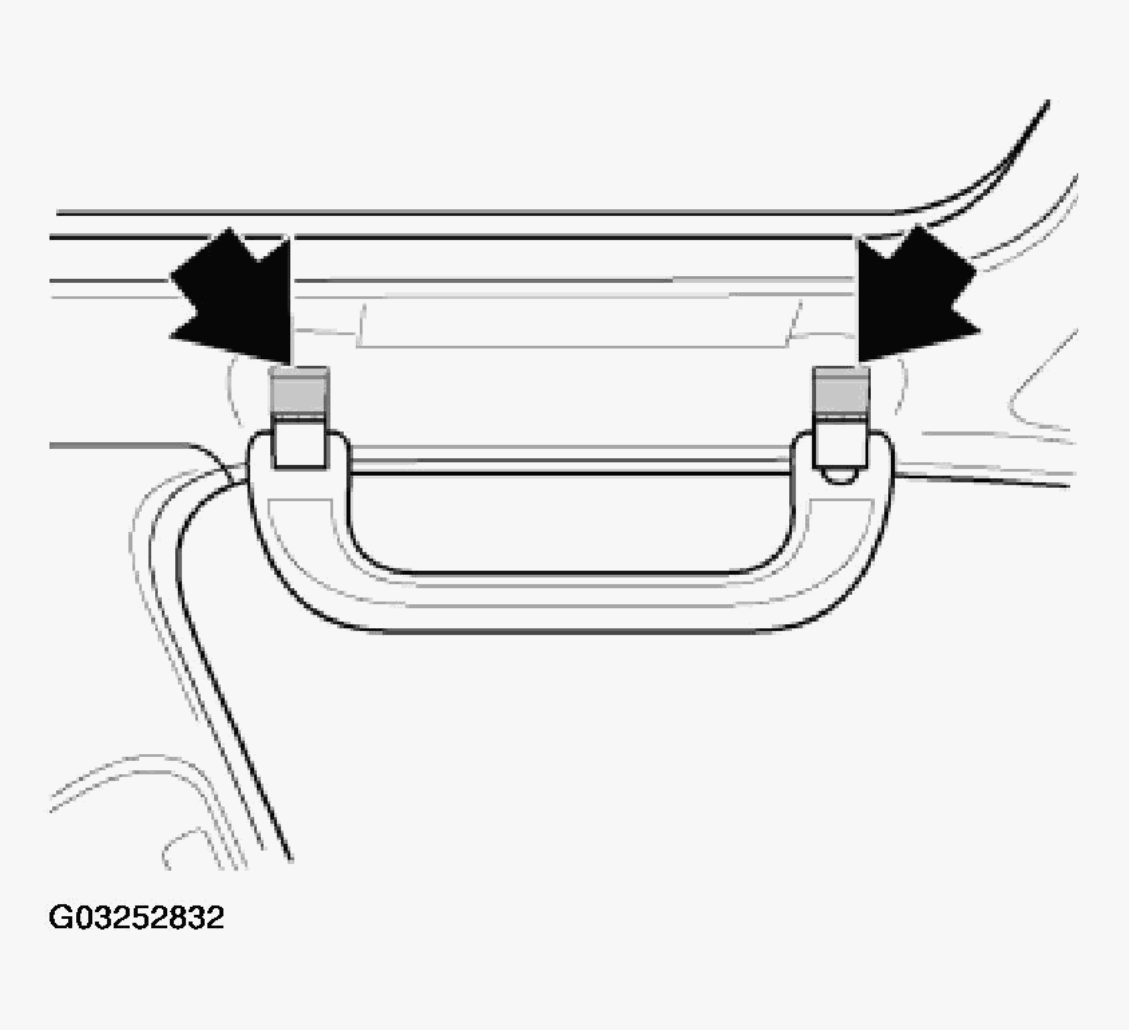


Fig. 170: Folding Finishers Down And Unfastening Screws
Courtesy of BMW OF NORTH AMERICA, INC.

LIDS

51 23 265 REMOVING AND INSTALLING/REPLACING LEFT OR RIGHT GAS STRUT FOR ENGINE BONNET/HOOD

WARNING: Risk of injury and damage!
For the following tasks, you must take the appropriate measures to support the engine bonnet/hood.
As an alternative, you can enlist the help of a second person to hold the bonnet/hood.

Raise bonnet/hood lid.

Removing gas spring strut at top and bottom:

1. Push retainer spring to end of gas spring strut.
2. Remove gas spring strut from ball head.

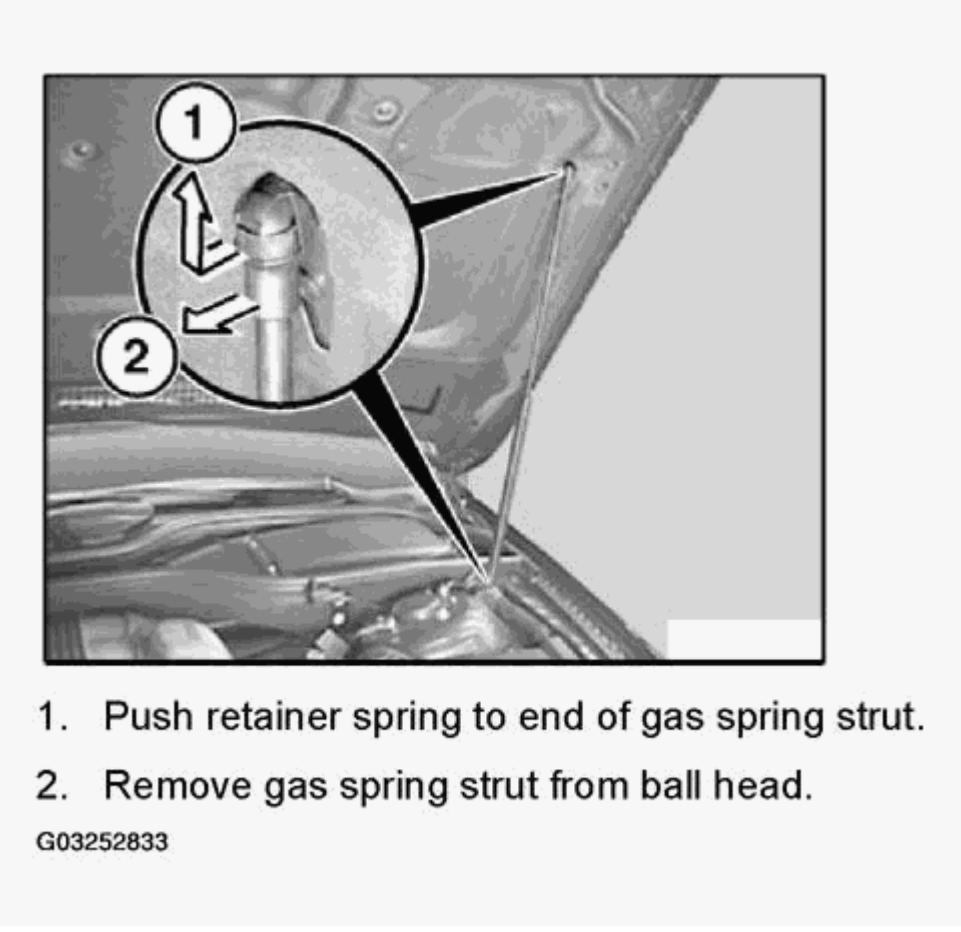


Fig. 171: Removing Gas Spring Strut From Ball Head
Courtesy of BMW OF NORTH AMERICA, INC.

FRONT DOOR LOCKS, HANDLES, FITTINGS

51 21 004 ADJUSTING FRONT LEFT OR RIGHT DOOR DETENT (LOCK WEDGE)

Operation is described in:

Adjusting left or right front door. See .

51 21 090 REMOVING AND INSTALLING/REPLACING DOOR LOCK ON LEFT OR RIGHT FRONT DOOR

Remove sound insulation on front door. See **51 48 ... Removing And Installing/Replacing Sound Insulation In Front Door, Left Or Right** .

Driver's side only:

Remove complete lock cylinder.

Disconnect plug connection (1) on door lock (2).

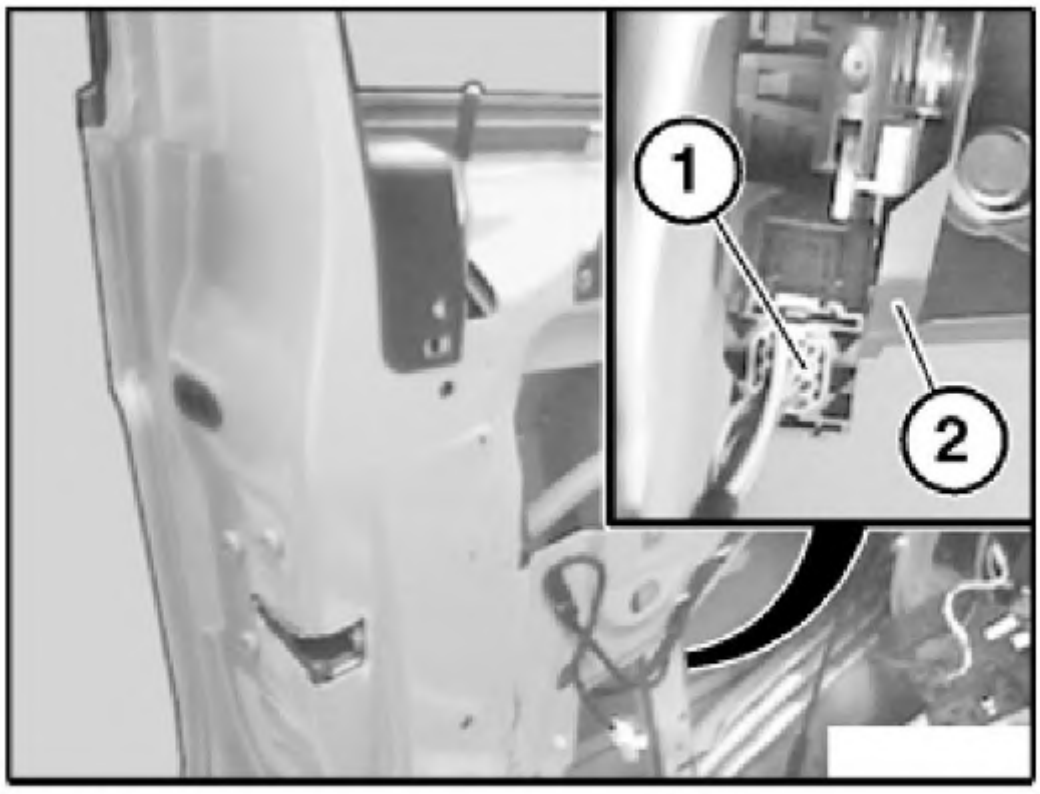


Fig. 172: Disconnecting Plug Connection On Door Lock
Courtesy of BMW OF NORTH AMERICA, INC.

Unclip ball head (1).

Detach Bowden cable (2) from support (3) on door lock.

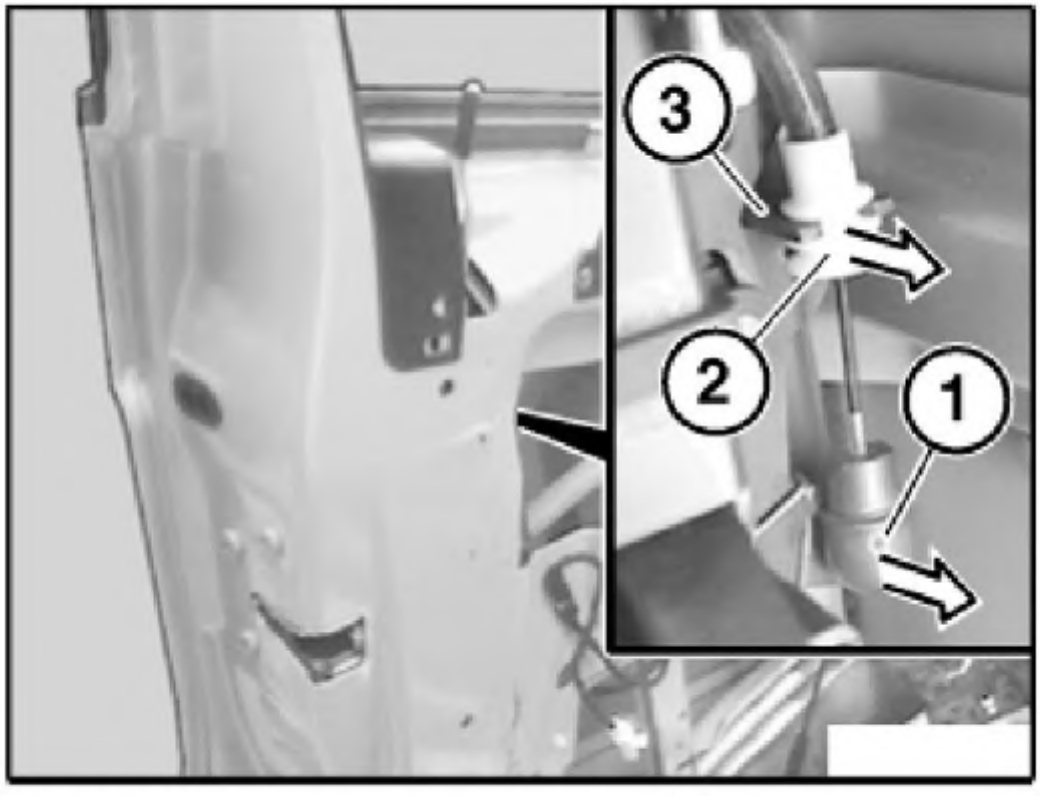


Fig. 173: Detaching Bowden Cable From Support On Door Lock
Courtesy of BMW OF NORTH AMERICA, INC.

Release screws (1).

Remove door lock (2) with linkage (3).

Installation:

Insert linkage for locking knob through opening in inner door plate.

Do not bend linkage (3).

Replace screws (1).

Tightening torque, see 51 21 1AZ in **BODY EQUIPMENT - TIGHTENING TORQUES** .

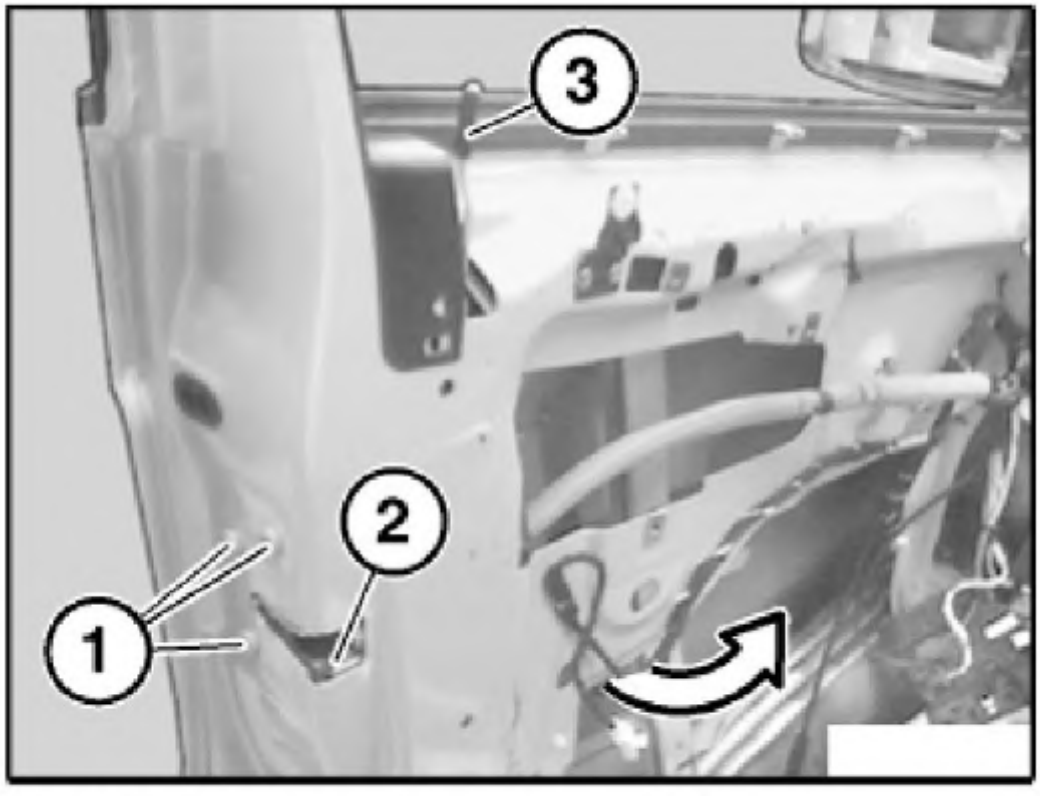


Fig. 174: Removing Door Lock With Linkage
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Carry out function check only with door open.

- Close rotary latch lock (1) with a screwdriver,
- lock car with car key,
- unlock car with car key,
- open rotary latch lock (1) with outside door handle,
- if rotary latch lock (1) opens, then O.K.
- if rotary latch lock (1) fails to open
- a new lock actuator must be fitted.

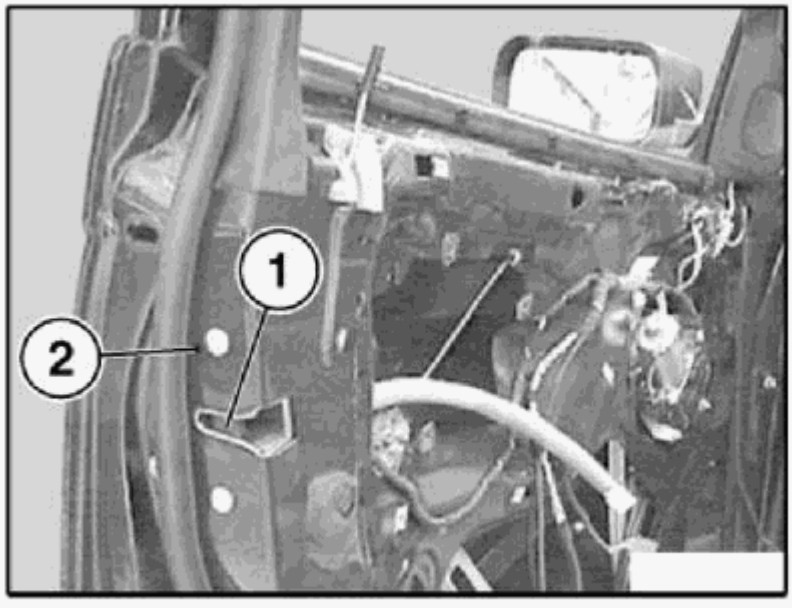


Fig. 175: Installing Lock Actuator
Courtesy of BMW OF NORTH AMERICA, INC.

CAUTION: Door lock and door detent (lock striker) must not be greased.

Only replacement:

Lift out lock (1) and detach Bowden cable (2) from fixture (3).

Remove Bowden cable nipple (4) from lever (5).

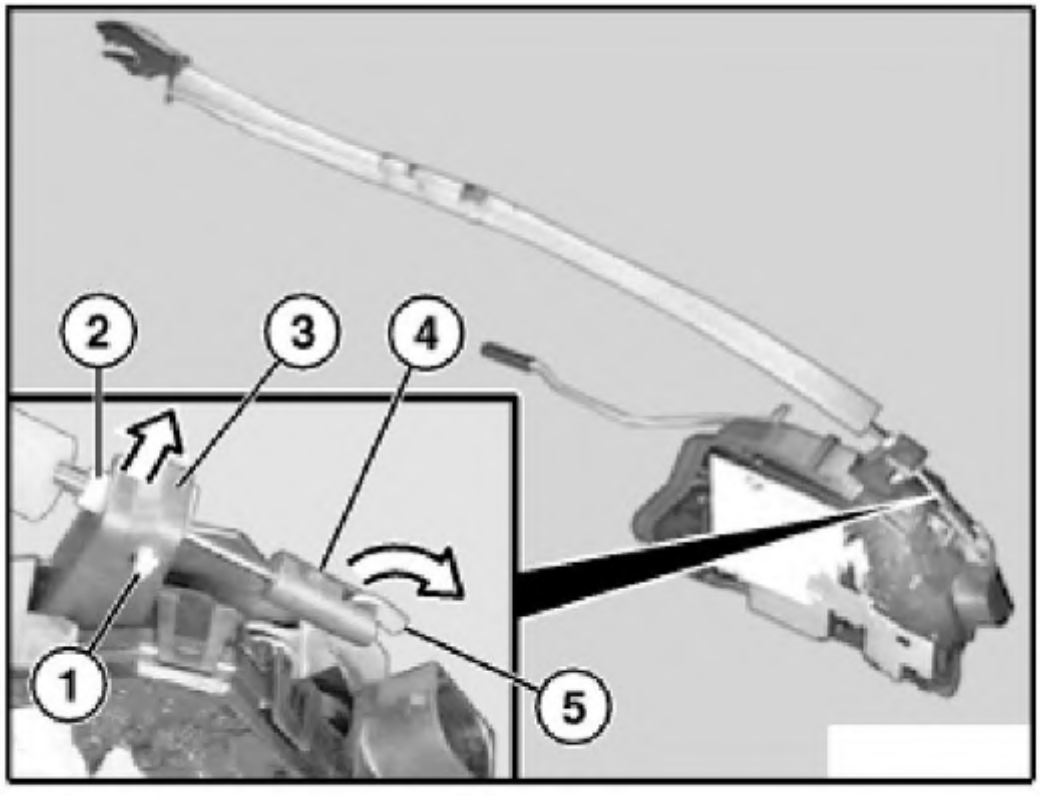


Fig. 176: Removing Bowden Cable Nipple From Lever (5)
Courtesy of BMW OF NORTH AMERICA, INC.

Only replacement:

Unclip linkage for locking knob (2) from support (1) and feed out of guide (3).

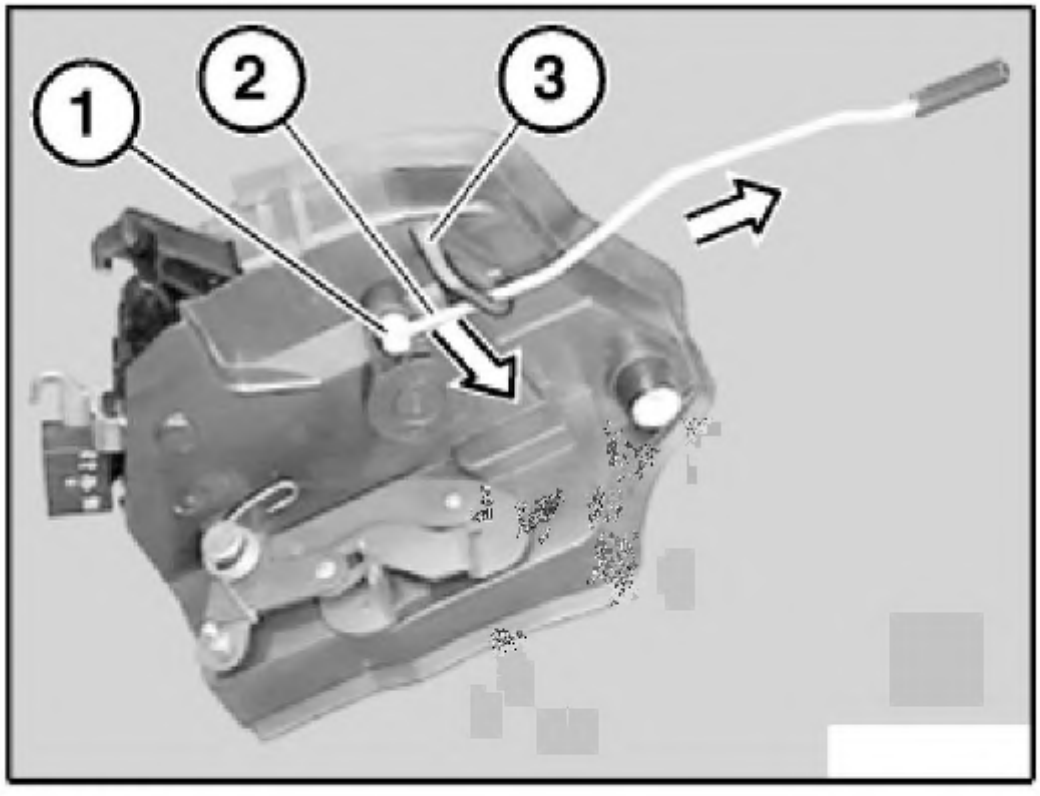


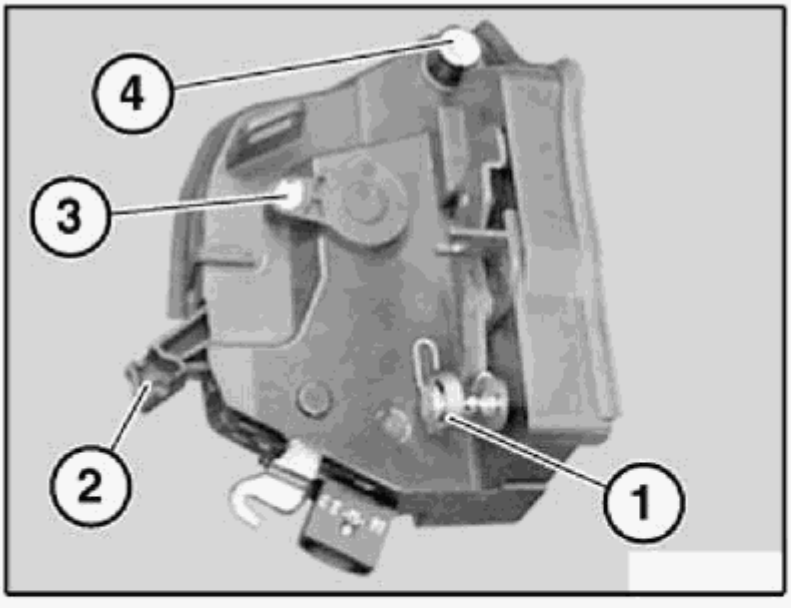
Fig. 177: Uncliping Linkage For Locking Knob From Support
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Following parts must not be damaged or missing:

1. Spring
2. Mount for Bowden cable of inside door handle
3. Mount for linkage of locking knob
4. Mount for paddle of lock barrel (driver's side only)

The illustration shows the left driver's door lock.



1 Spring

2 Mount for Bowden cable of inside door handle

3 Mount for linkage of locking knob

4 Mount for paddle of lock barrel (driver's side only)

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Fig. 178: Identifying Components
Courtesy of BMW OF NORTH AMERICA, INC.

51 21 140 REMOVING AND INSTALLING/REPLACING COMPLETE LOCK CYLINDER

Remove plate (1).

Installation:

Fit new plate (1).

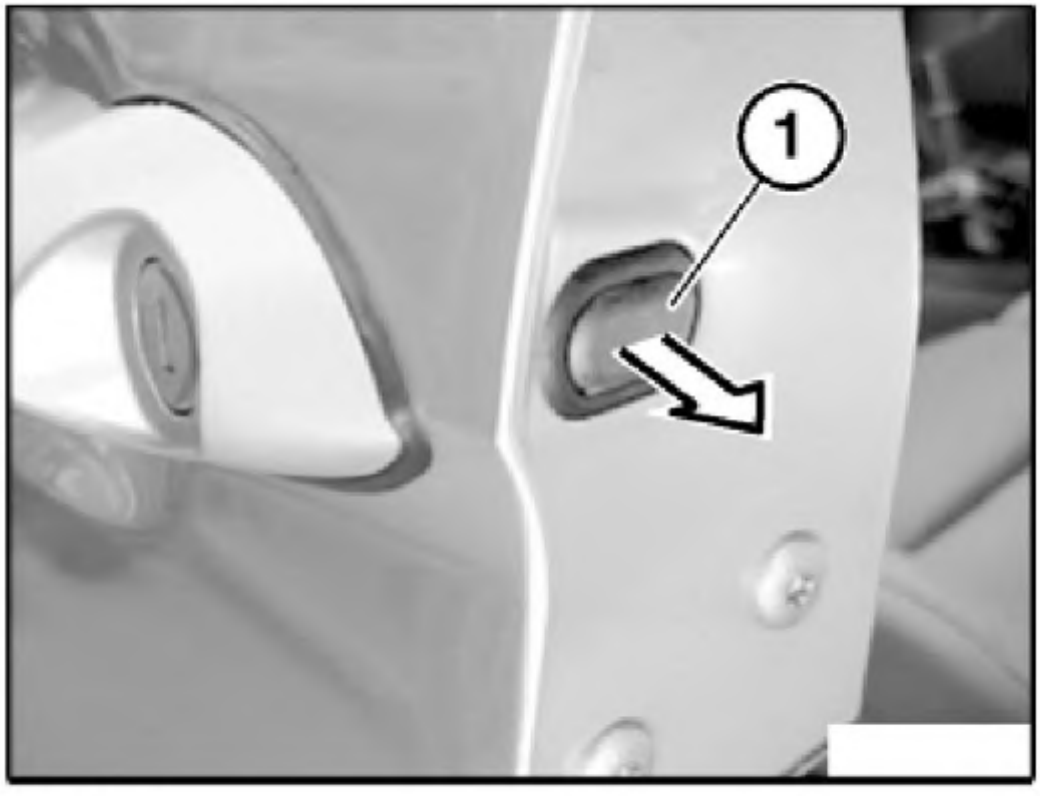


Fig. 179: Removing Plate
Courtesy of BMW OF NORTH AMERICA, INC.

Release screw (1).

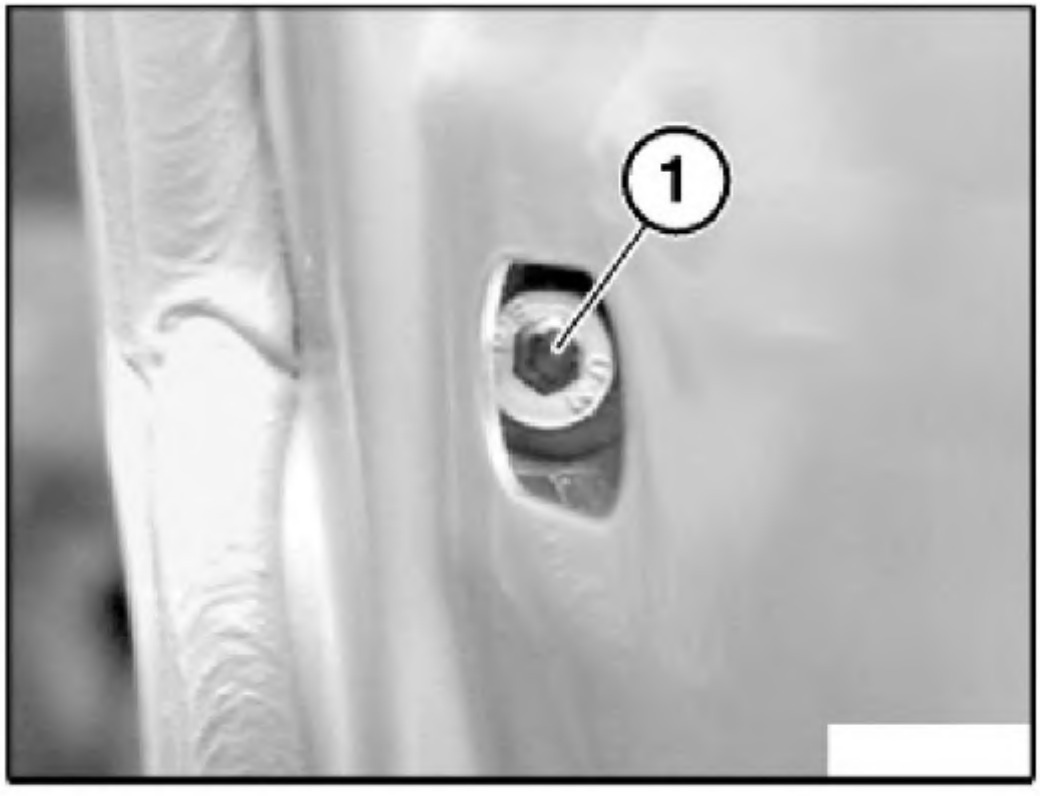


Fig. 180: Releasing Screw
Courtesy of BMW OF NORTH AMERICA, INC.

Removing cover (1) on outside handle:

A. A Pull cover (1) approx. 1 ... 2 mm towards rear.
B. B Detach cover (1) with lock barrel (2) towards outside.

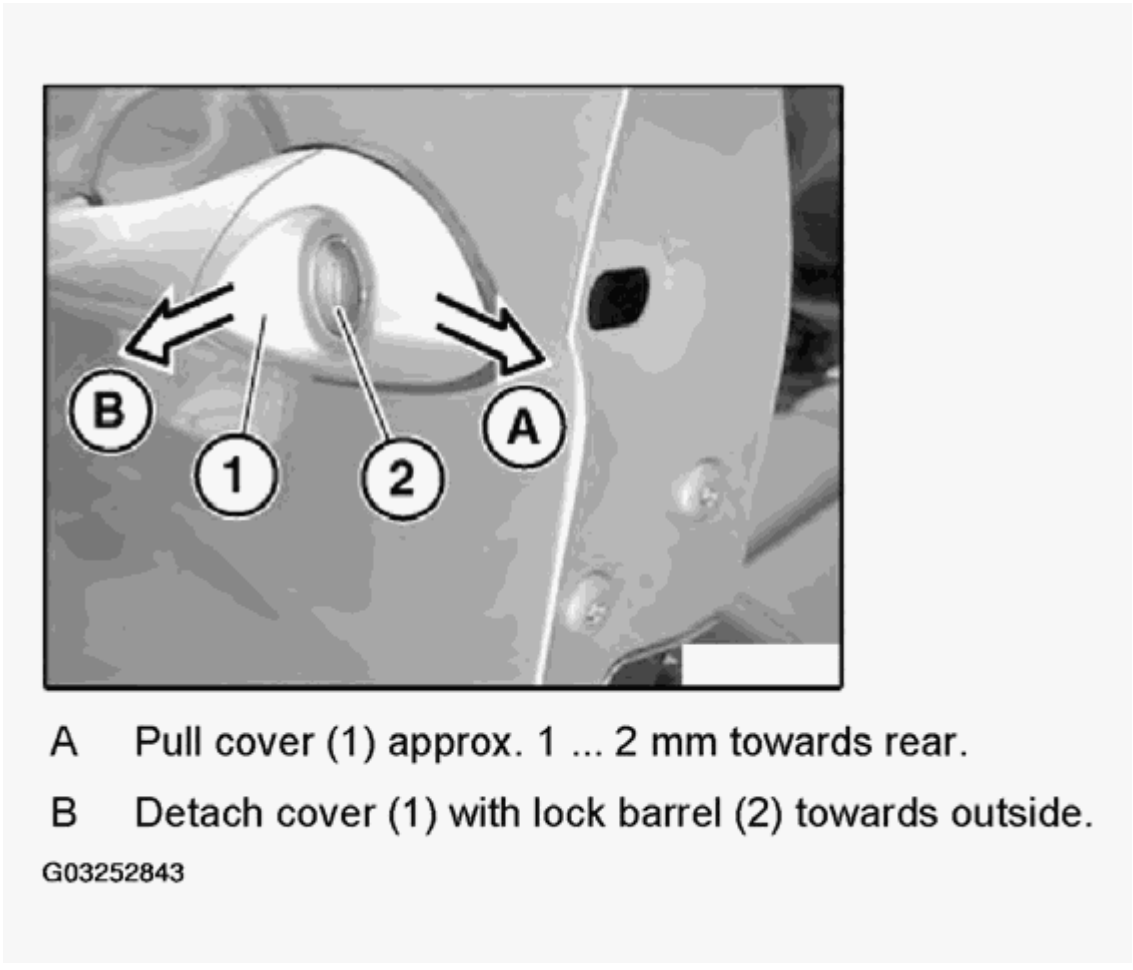


Fig. 181: Removing Cover On Outside Handle
Courtesy of BMW OF NORTH AMERICA, INC.

Remove catches (1) and detach cover (2) from lock cylinder (3).

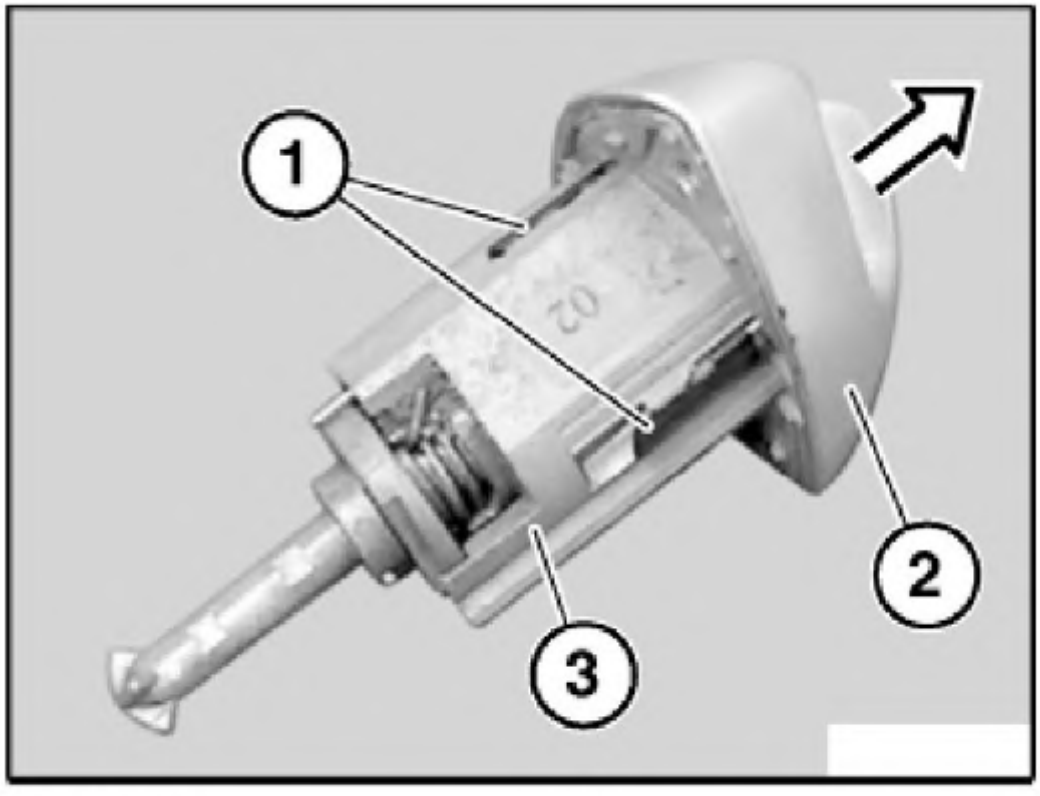
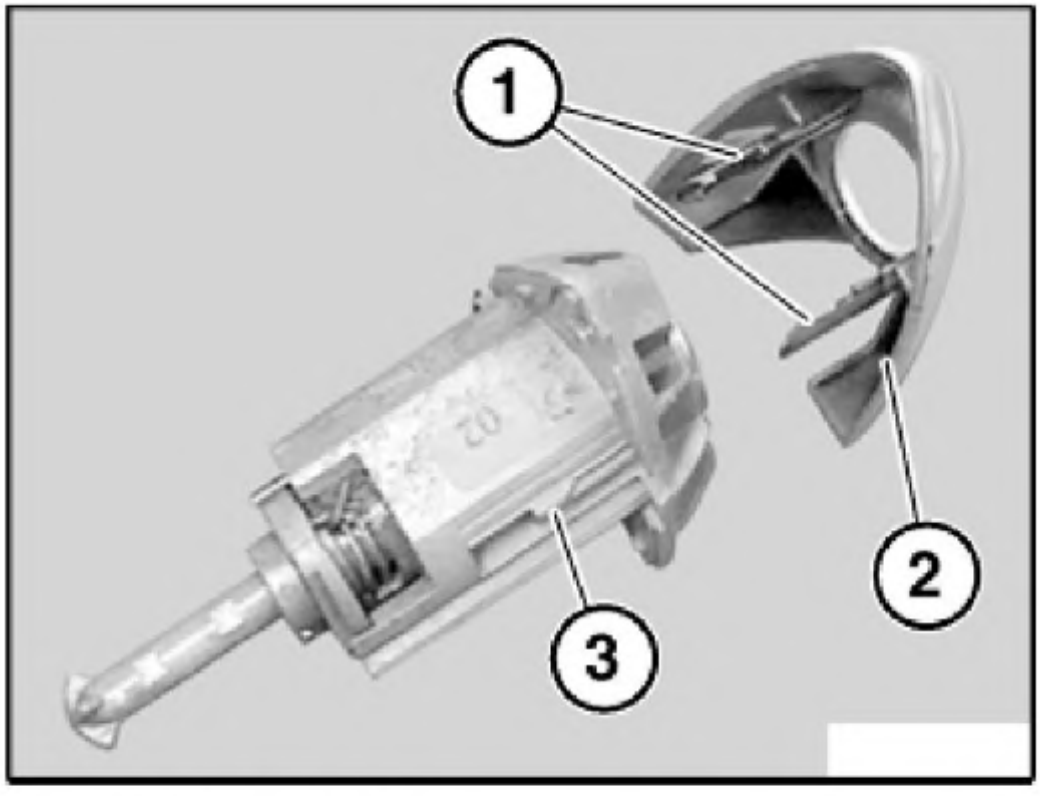


Fig. 182: Detaching Cover From Lock Cylinder
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Catches (1) on cover (2) must not be damaged.

3 Lock cylinder



3 Lock cylinder

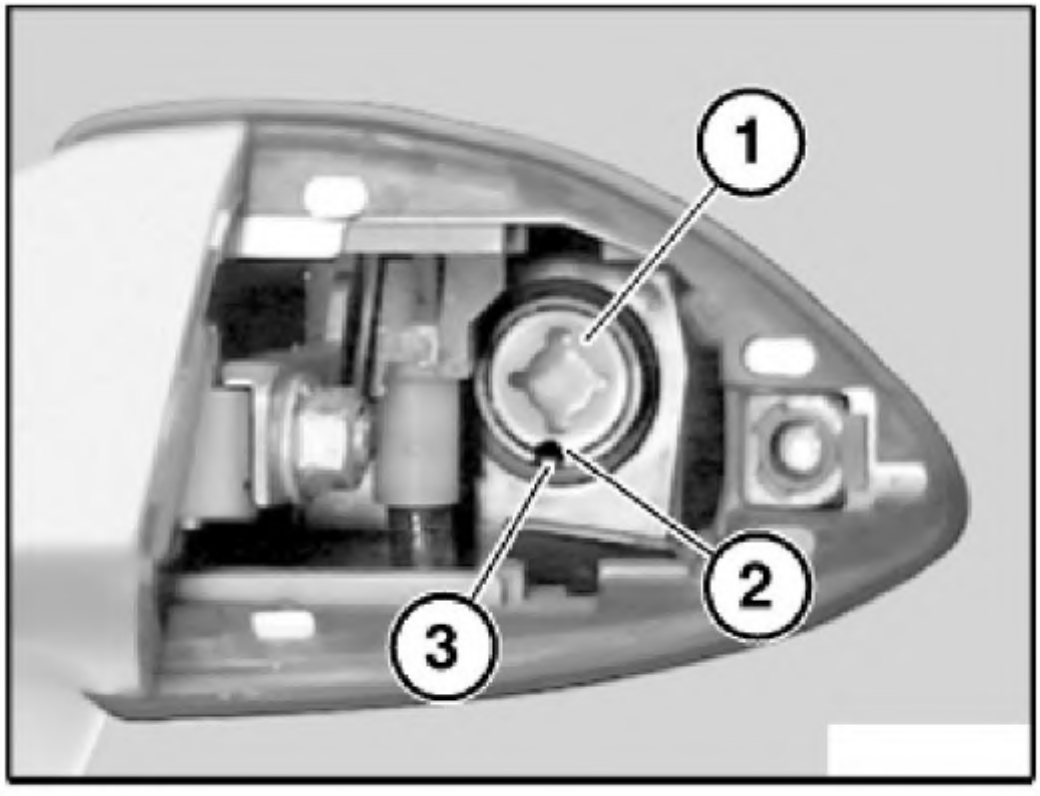
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Fig. 183: Checking Catches On Cover
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Notch (2) on paddle support (1) must be secured in catch (3).

Only in this position will installation of the lock barrel be guaranteed.



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Fig. 184: Inspecting Notch On Paddle Support Must Be Secured In Catch
Courtesy of BMW OF NORTH AMERICA, INC.

51 21 170 REMOVING AND INSTALLING OR REPLACING OUTSIDE HANDLE FROM LEFT OR RIGHT FRONT DOOR

Driver's side:

Remove lock cylinder completely from front door.

Passenger side:

Remove cover on outside handle.

Removal:

Slacken nut (1) on outside handle (2) (do not release fully).

Installation:

Contact surface (3) of outside handle (2) must rest without play against lock actuator (4).

Tightening torque, see 51 21 5AZ in **BODY EQUIPMENT - TIGHTENING TORQUES** .

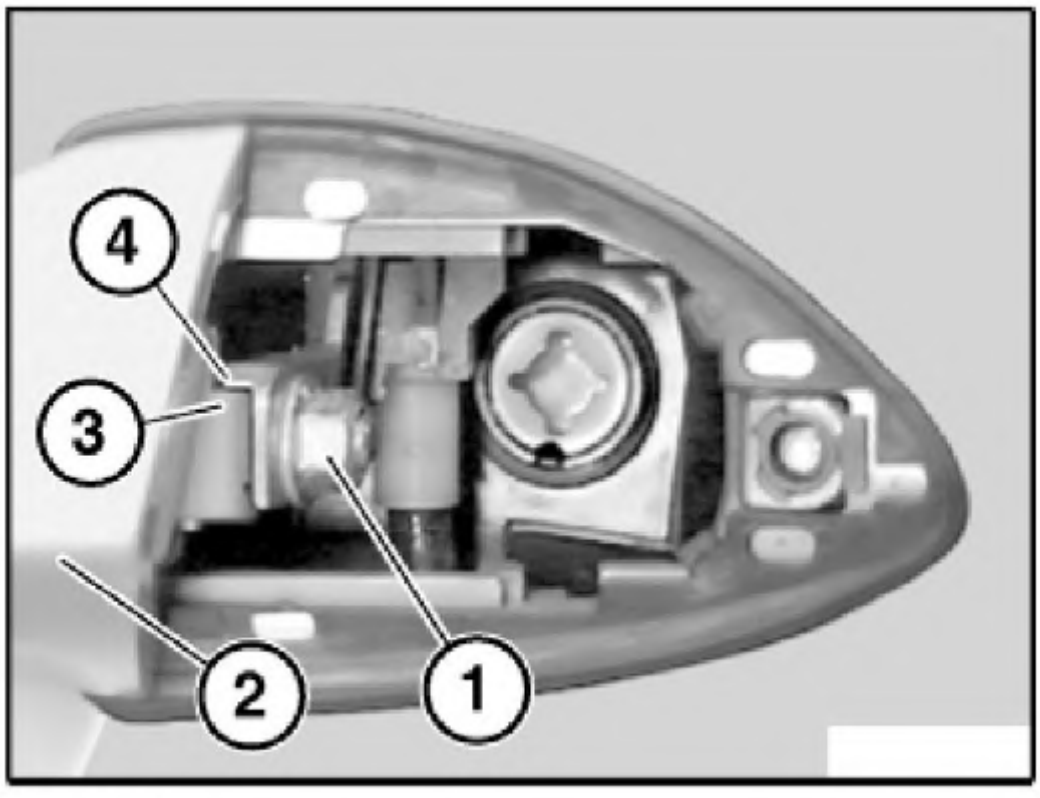


Fig. 185: Slackening Nut On Outside Handle
Courtesy of BMW OF NORTH AMERICA, INC.

NOTE: Fit the older outer frame (1) of screw cover (damage to paint).

Pull outside handle (2) as far outwards/upwards as possible and secure in this position with a screwdriver (3).

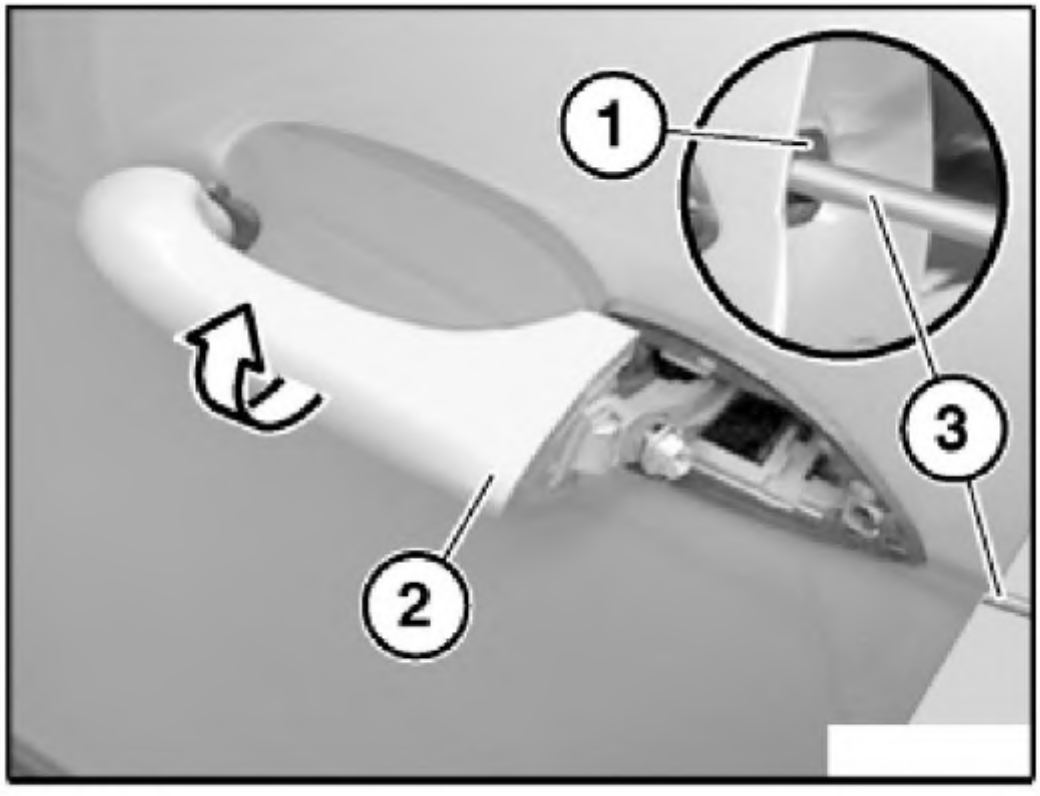
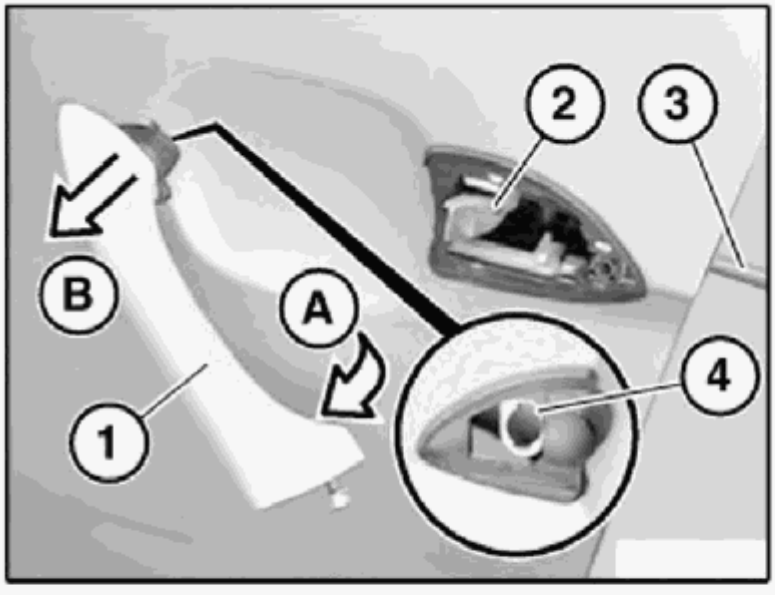


Fig. 186: Fitting Older Outer Frame Of Screw Cover
Courtesy of BMW OF NORTH AMERICA, INC.

NOTE: For removal, the outside handle (1) must remain secured with a screwdriver (3).

A. A Pull off outside handle (1) from rear lock actuator (2).
B. B Pull off outside handle (1) in lowest setting (as shown in illustration) from front lock actuator (4).



A Pull off outside handle (1) from rear lock actuator (2).

B Pull off outside handle (1) in lowest setting (as shown in illustration) from front lock actuator (4).

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Fig. 187: Pulling Off Outside Handle In Lowest Setting
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Old outer frame (1) of screw cover must be fitted (damage to paint).

Press lock actuator (1) with a screwdriver (2) fully into "Open" setting.

Mount outside handle in this position.

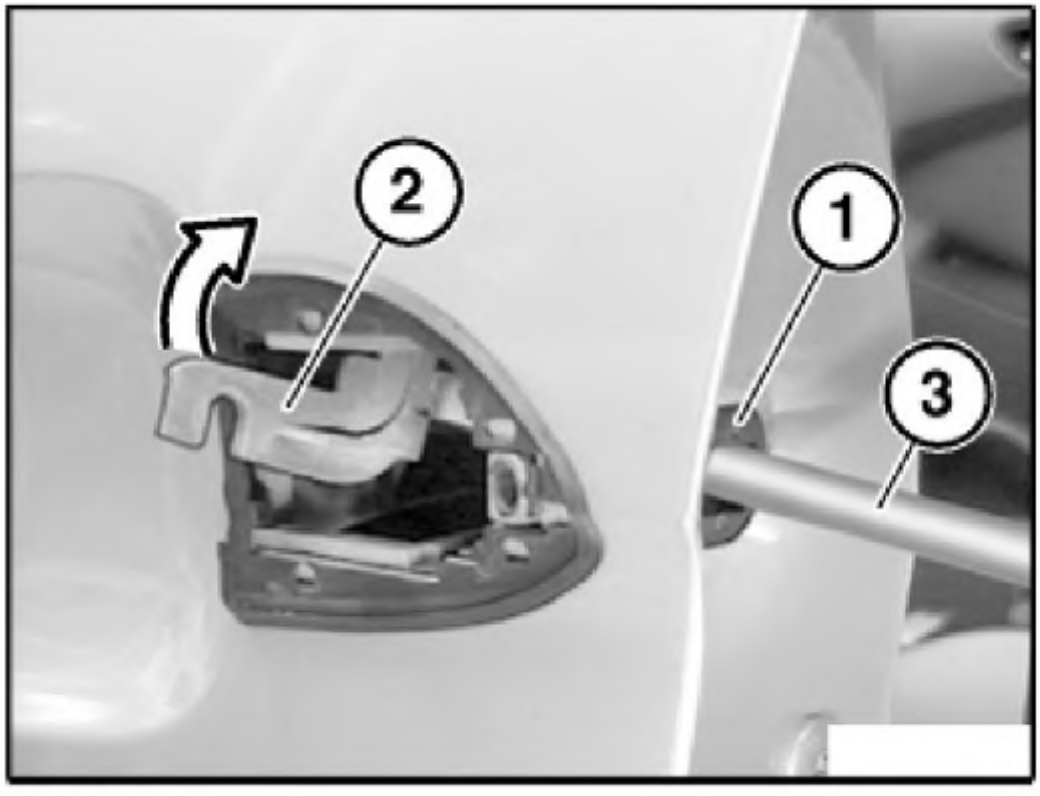


Fig. 188: Pressing Lock Actuator With A Screwdriver
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Supports (1) and (2) on outside handle (3) must not be damaged.

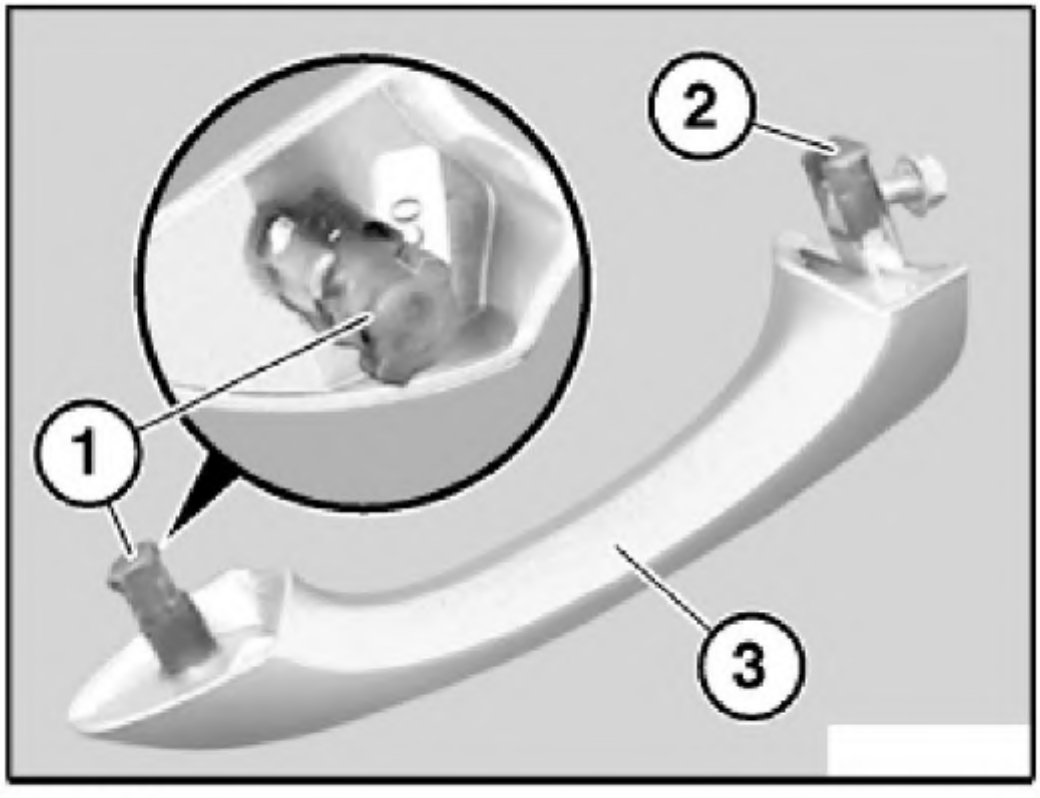


Fig. 189: Checking Supports And On Outside Handle
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

If necessary, replace faulty seals (1) and (2) for outside handle.

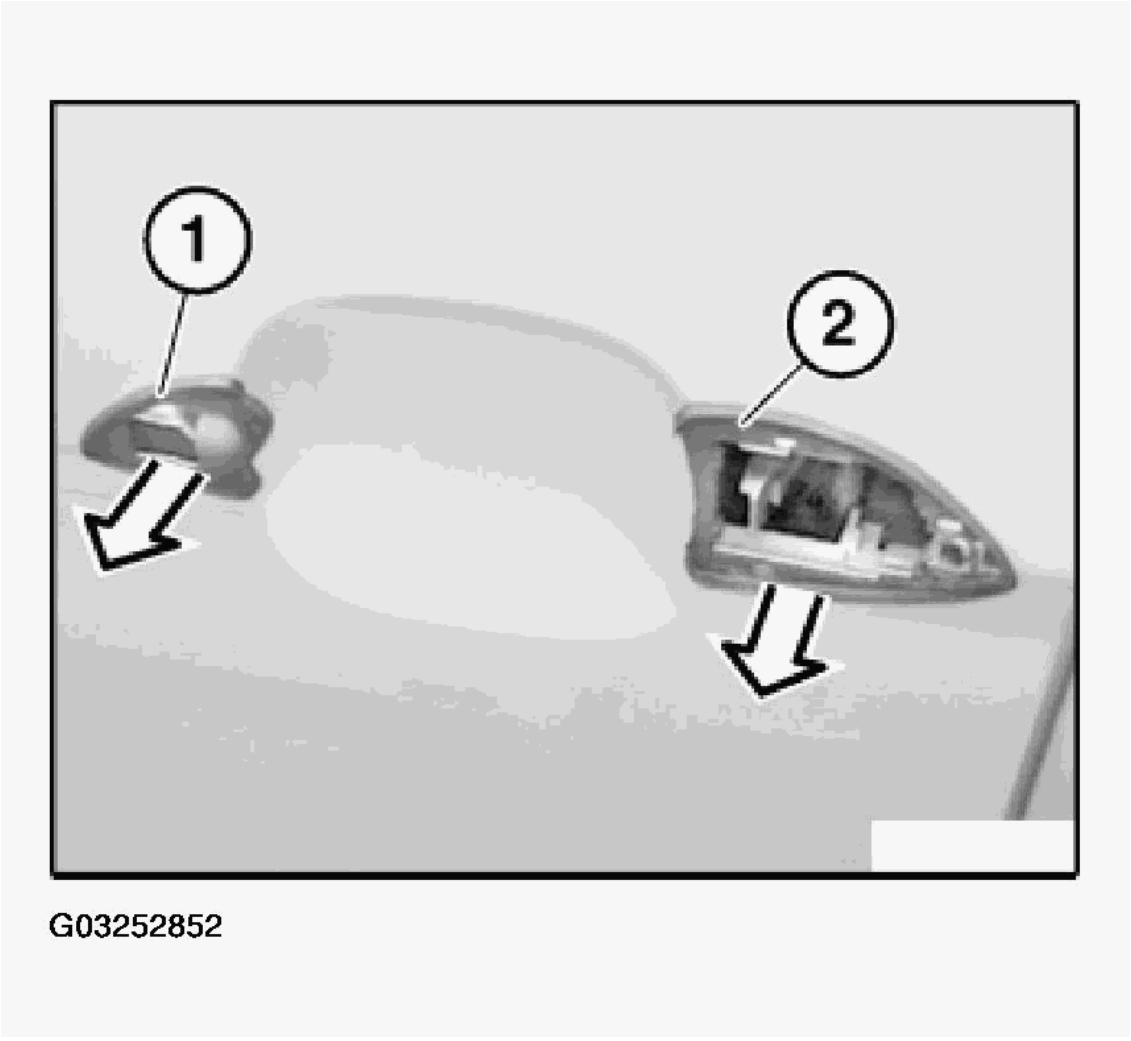


Fig. 190: Checking Faulty Seals And For Outside Handle
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Carry out function check only with door open.

51 21 180 REMOVING AND INSTALLING/REPLACING COVER ON OUTSIDE HANDLE

Lever out trim (1) and frame (2).

NOTE: After releasing screw, you must reinstall frame (2) (damage to paint).

Installation:

Install new trim (1) and frame (2).

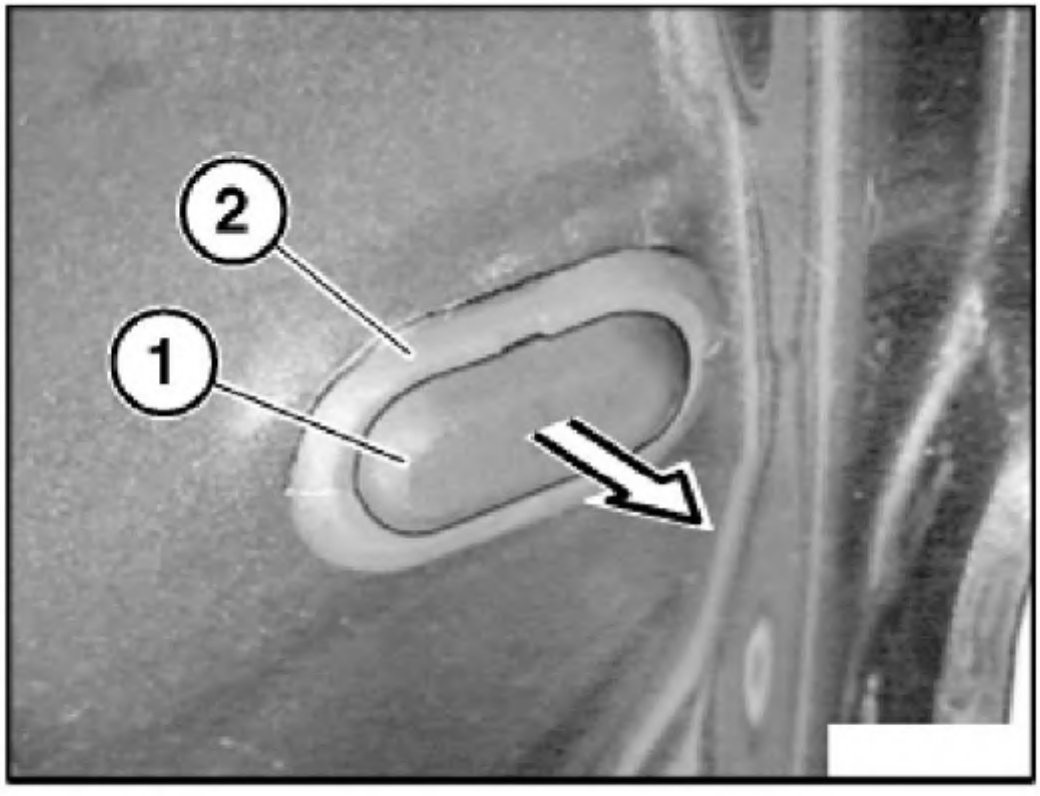


Fig. 191: Installing Trim And Frame
Courtesy of BMW OF NORTH AMERICA, INC.

Release screw (1).

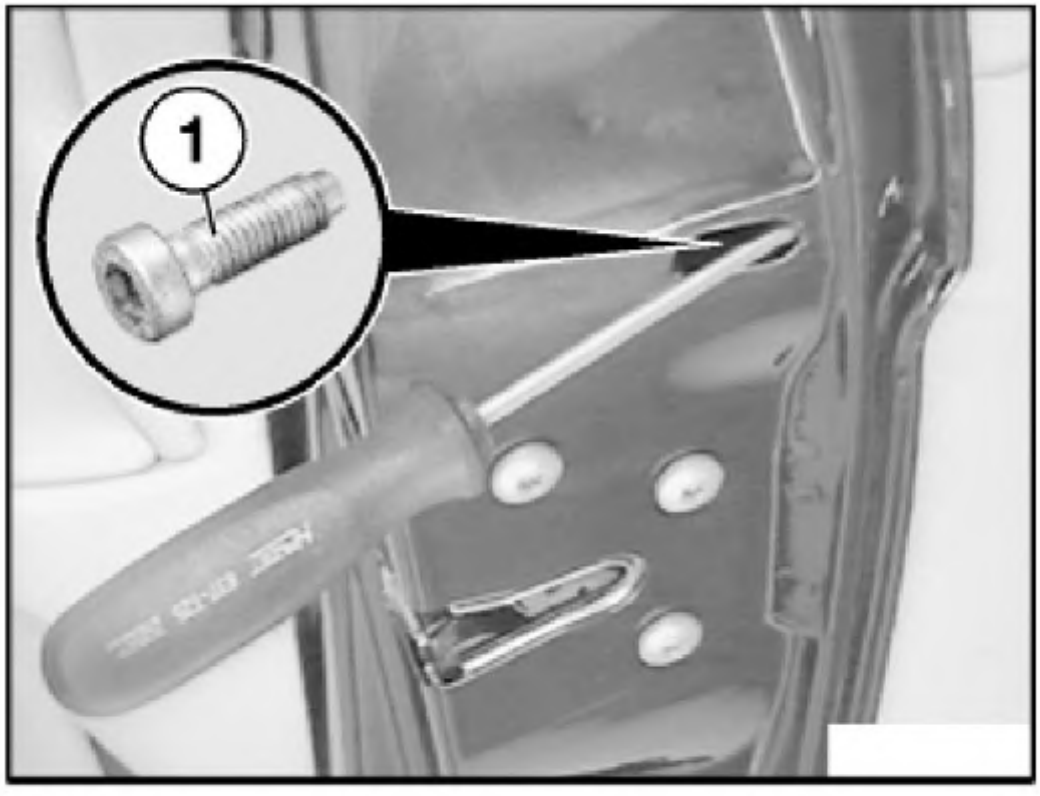


Fig. 192: Releasing Screw
Courtesy of BMW OF NORTH AMERICA, INC.

Removing cover (1) on outside handle:

A. A Pull cover (1) approx. 1 ... 2 mm towards rear.
B. B Take off cover (1).

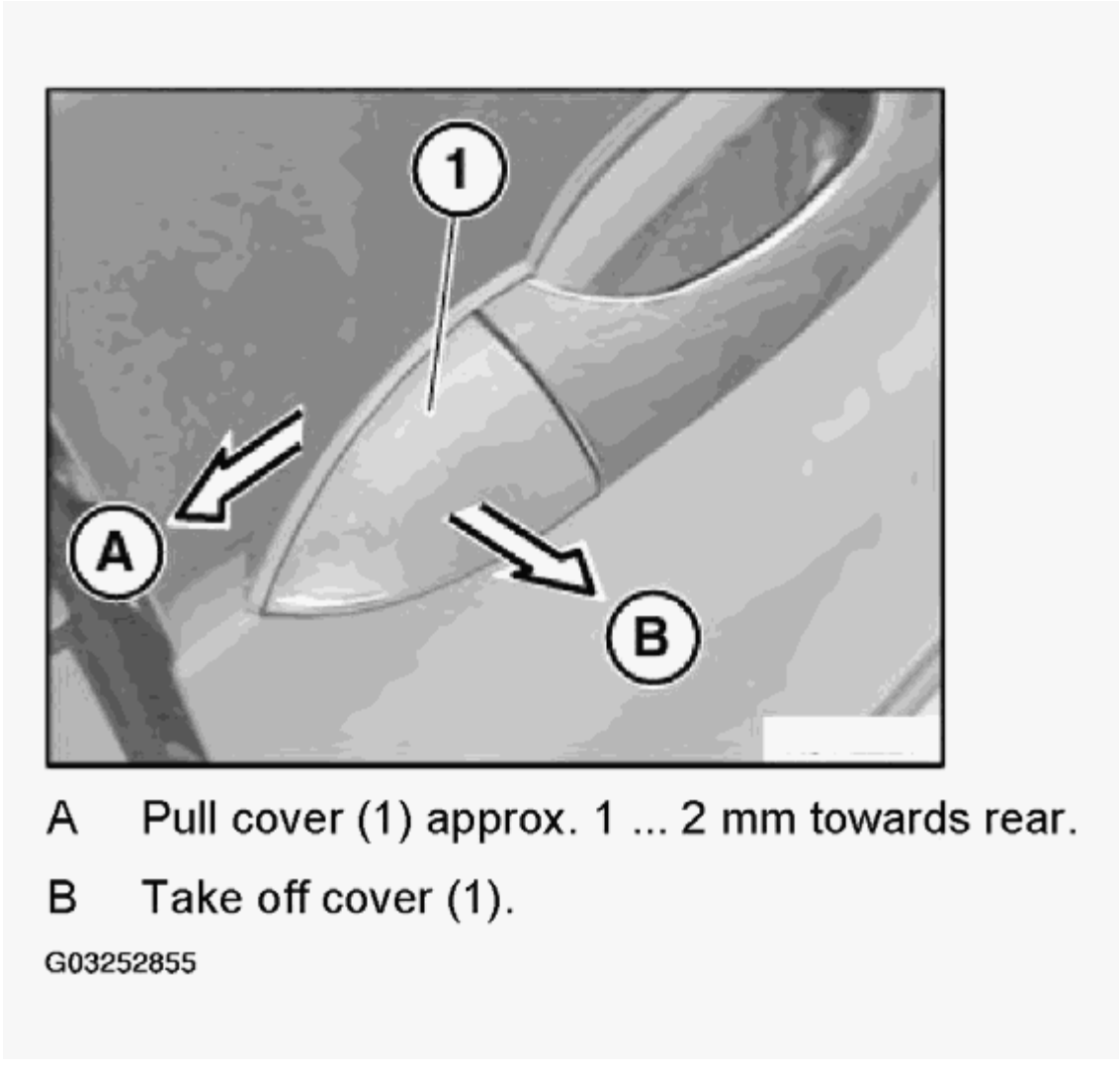
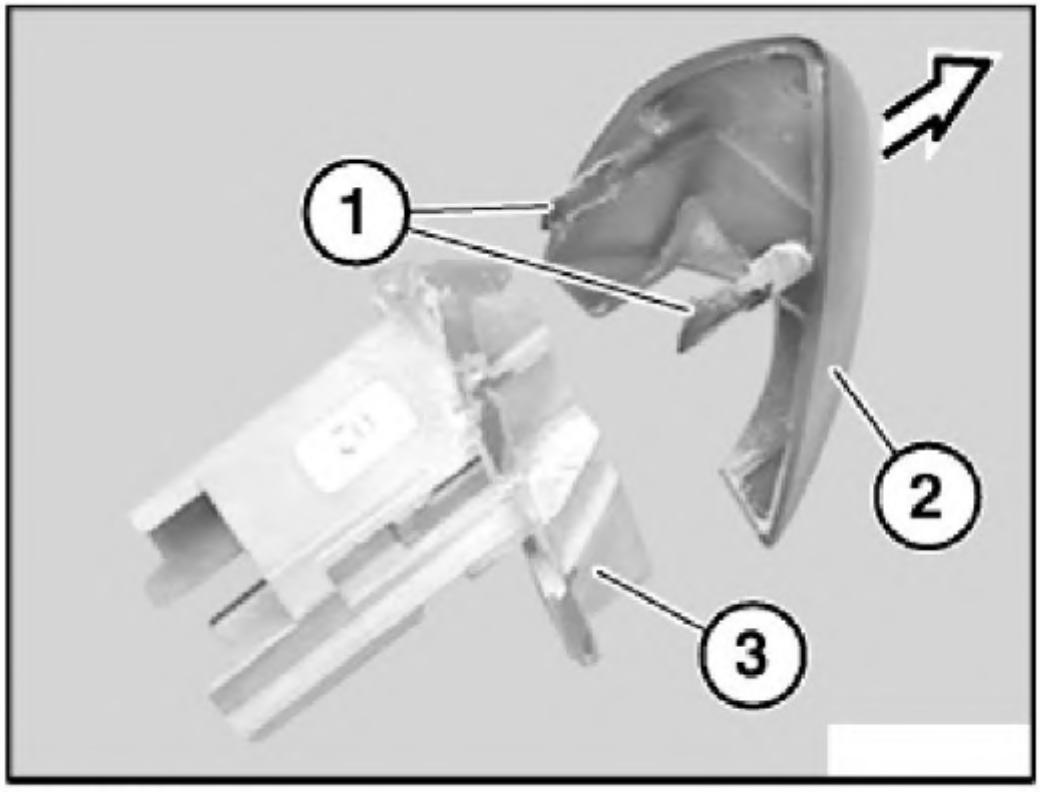


Fig. 193: Removing Cover On Outside Handle
Courtesy of BMW OF NORTH AMERICA, INC.

Lever out catches (1) and detach cover (2) from filler element (3).

Installation:

Catches (1) on cover (2) must not be damaged.



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Fig. 194: Checking Catches On Cover
Courtesy of BMW OF NORTH AMERICA, INC.

51 21 181 REMOVING AND INSTALLING COVER ON OUTSIDE HANDLE WITH LOCKING CYLINDER

Operation Is Identical To:

Remove and install/replace complete locking cylinder from left or right front door, refer to **51 21 140 REMOVING AND INSTALLING/REPLACING COMPLETE LOCK CYLINDER** .

51 21 182 REPLACING COVER ON OUTSIDE HANDLE WITH LOCKING CYLINDER

Operation Is Identical To:

Remove and install/replace complete locking cylinder from left or right front door, refer to **51 21 140 REMOVING AND INSTALLING/REPLACING COMPLETE LOCK CYLINDER** .

51 21 200 REMOVING AND INSTALLING/REPLACING OUTSIDE HANDLE AND LOCK ACTUATOR FROM LEFT OR RIGHT FRONT DOOR

Remove sound insulation on front door. See **51 48 ... Removing And Installing/Replacing Sound Insulation In Front Door, Left Or Right** .

Remove outside handle on front door.

Remove seals (1) and (2) for outside handle.

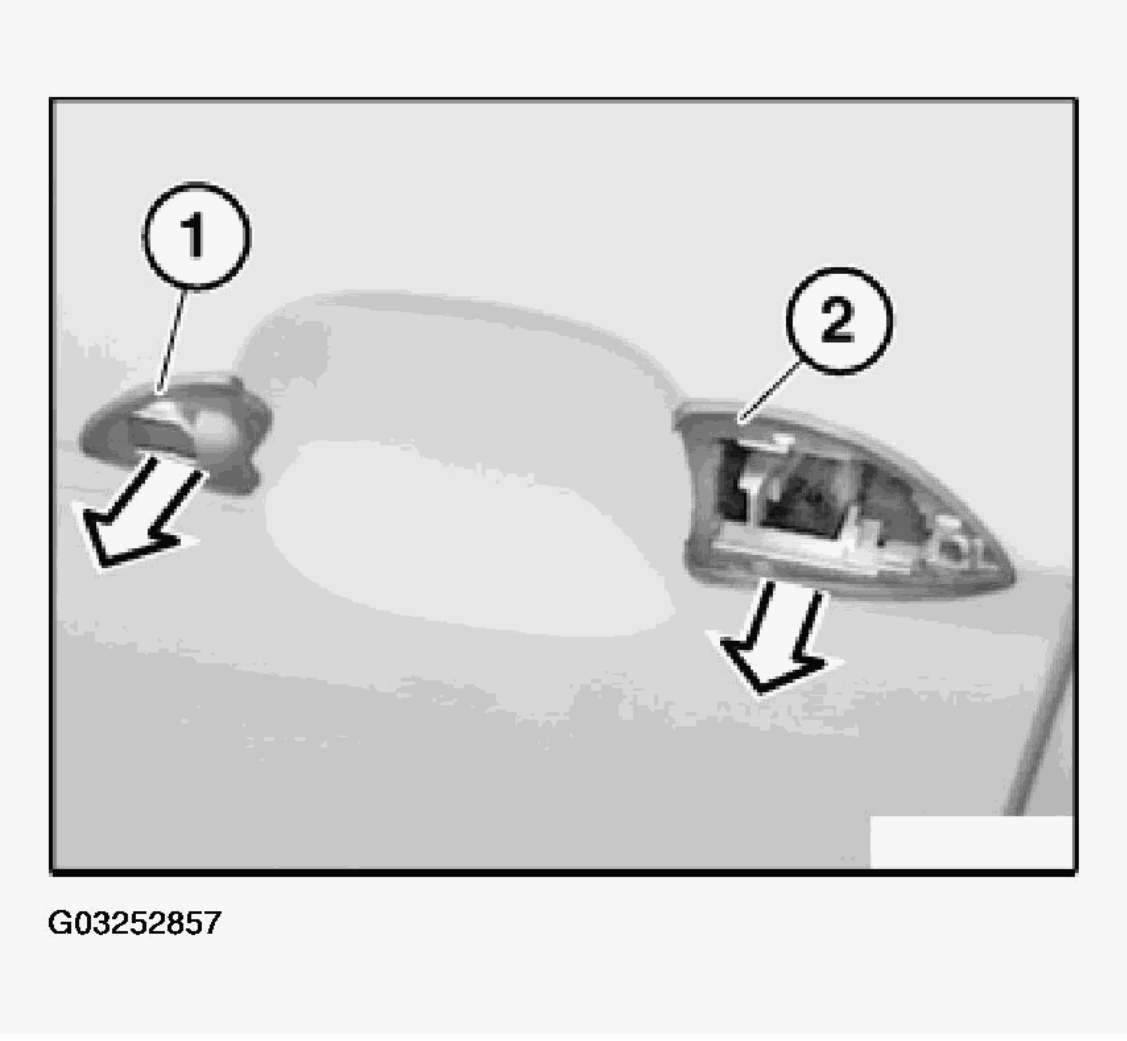


Fig. 195: Removing Seals And For Outside Handle
Courtesy of BMW OF NORTH AMERICA, INC.

Unclip ball head (1).

Detach Bowden cable (2) from support (3) on door lock.

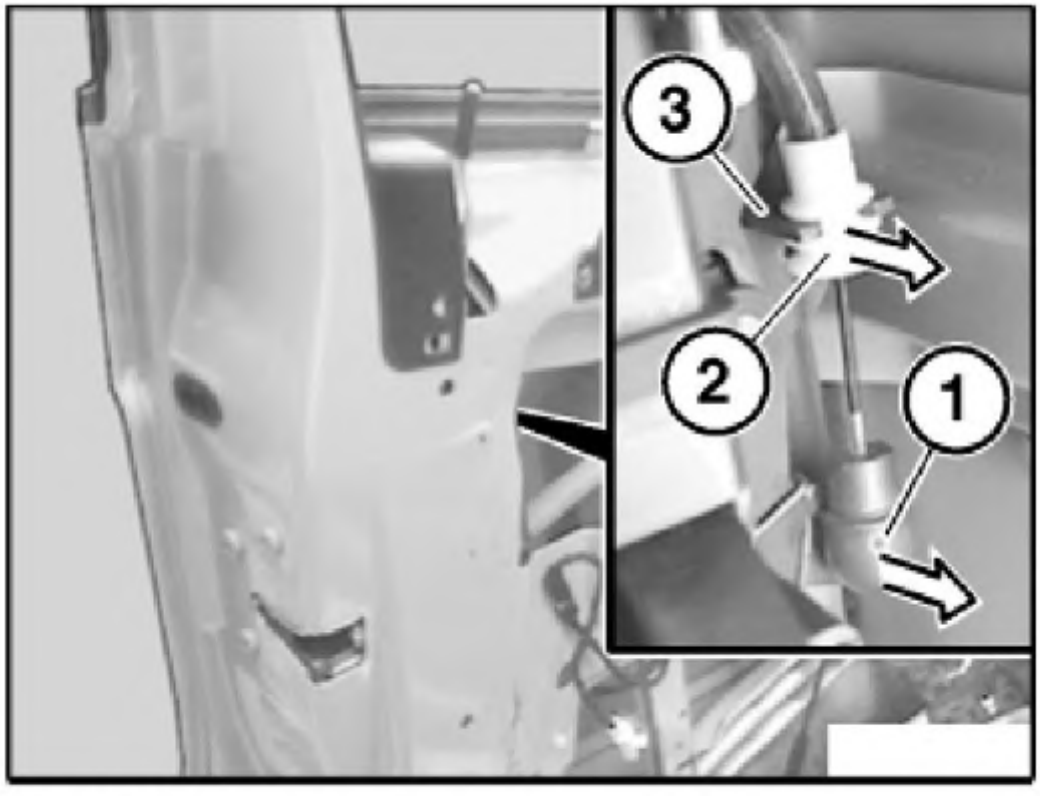


Fig. 196: Uncliping Ball Head
Courtesy of BMW OF NORTH AMERICA, INC.

Loosen bolt (1).

Lift out lock actuator (2) towards front and remove to inner door panel.

Installation:

Guide (3) must be located outside metal edge (4).

Lock actuator (5) must be flush with guide (6).

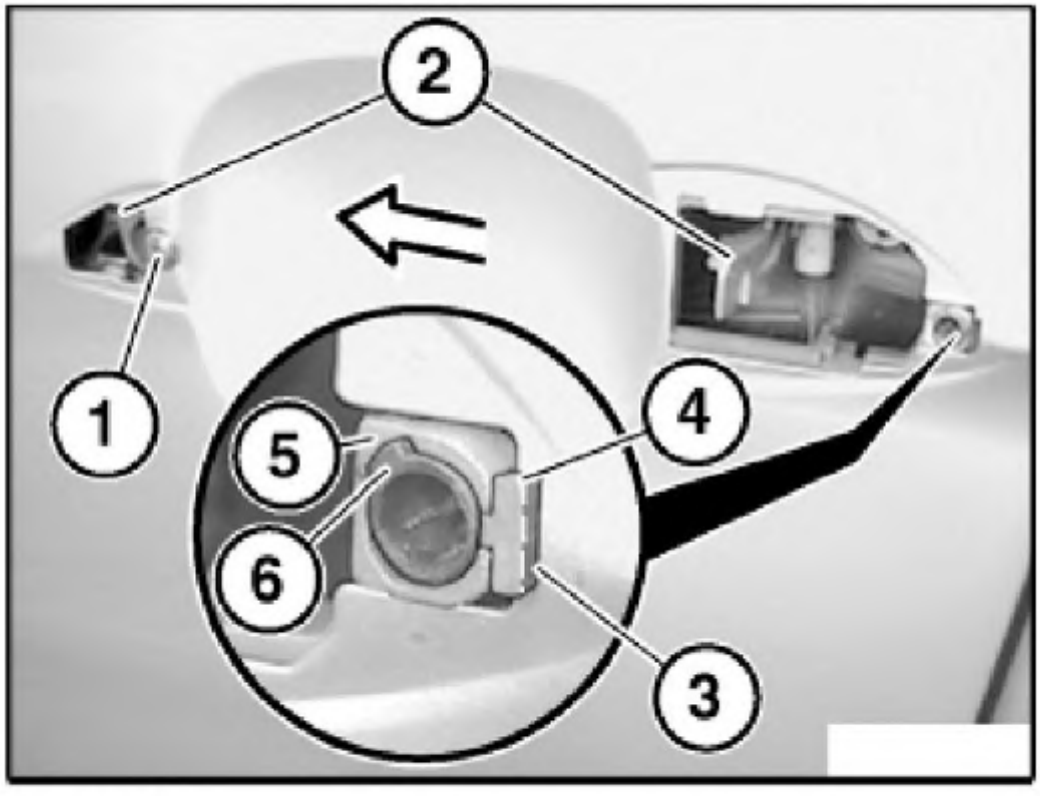


Fig. 197: Loosening Bolt
Courtesy of BMW OF NORTH AMERICA, INC.

CAUTION: Bowden cable (1) must not be removed or replaced.
In event of a mix-up, the door will not be able to be opened.
Lock actuator (2) has a red marking on Bowden cable (1).

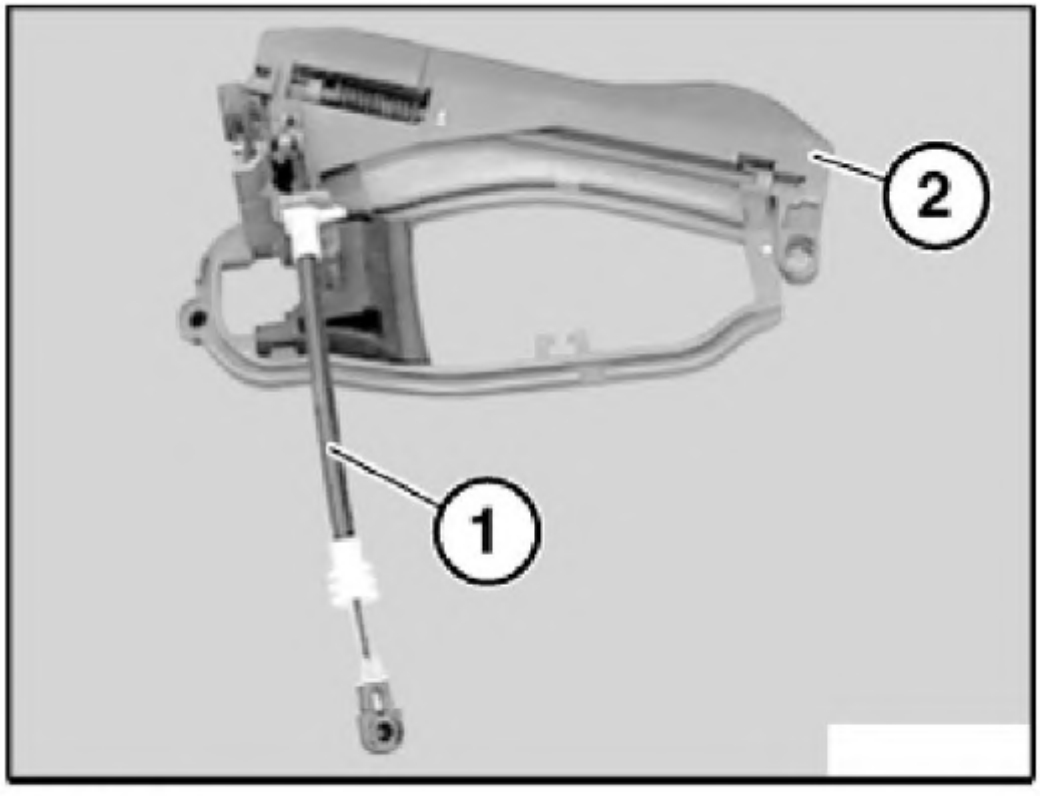


Fig. 198: Removing Bowden Cable
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Bowden cable (1) must be fitted correctly with lock actuator (2).

Seal (3) must be fitted - wind noises.

Buffers (4) must be fitted.

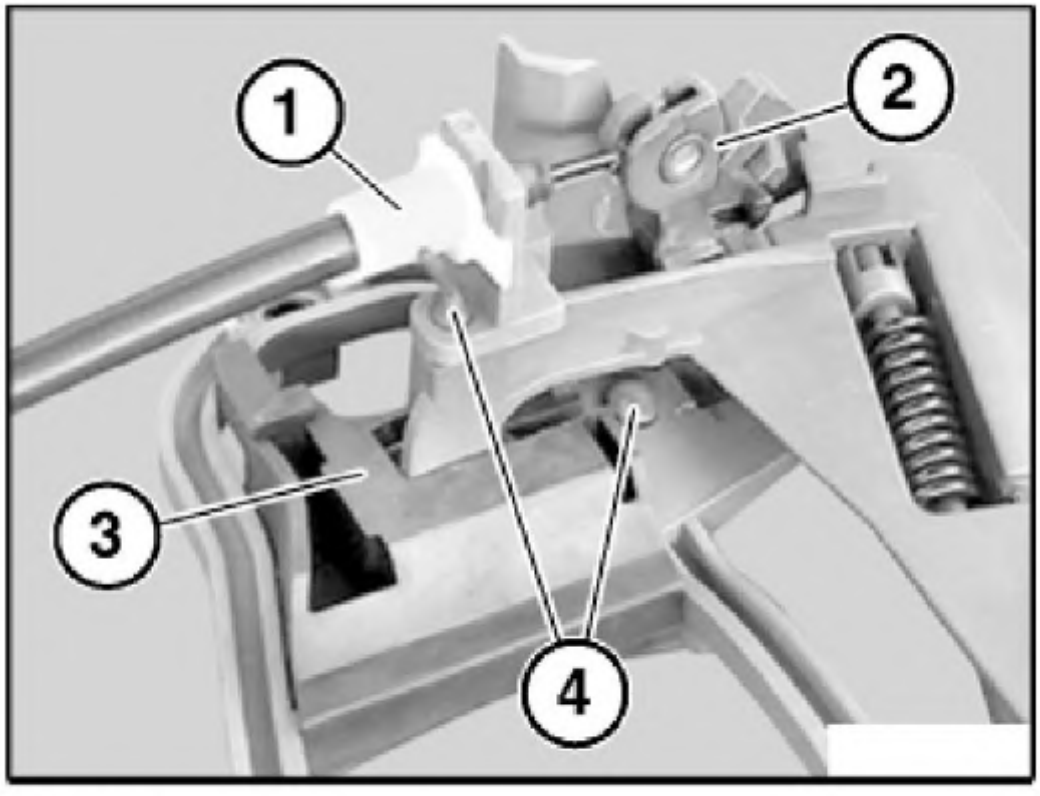


Fig. 199: Installing Bowden Cable
Courtesy of BMW OF NORTH AMERICA, INC.

If necessary, replace screw (1) on lock actuator (2).

Guide (3) must be flush with support (4).

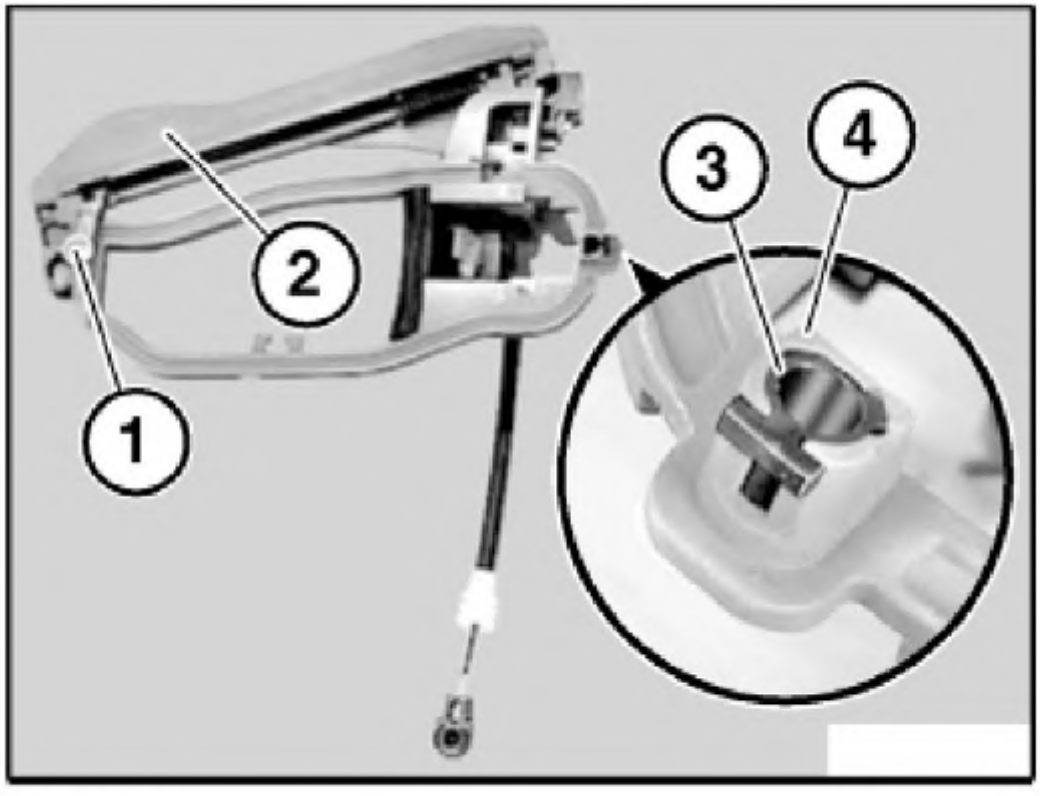


Fig. 200: Identifying Screw On Lock Actuator
Courtesy of BMW OF NORTH AMERICA, INC.

51 21 225 REMOVING AND INSTALLING/REPLACING INSIDE DOOR HANDLE IN LEFT OR RIGHT FRONT DOOR

Remove front door trim panel. See **51 41 000 Removing And Installing Left Or Right Front Door Trim Panel** .

Version With Lighting For Door Handle:

CAUTION: Do not damage light guide (2) when removing door handle (1).

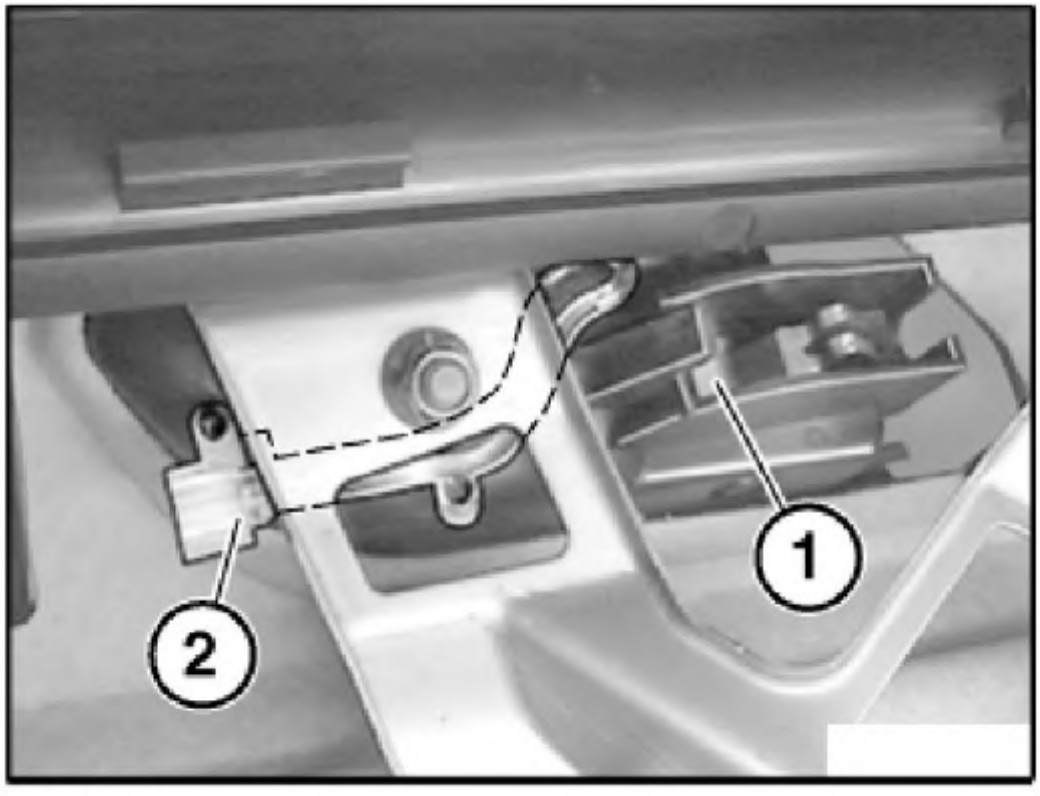


Fig. 201: Removing Door Handle
Courtesy of BMW OF NORTH AMERICA, INC.

Release nut (1).

NOTE: Guides (2) on door handle (3) must not be damaged.
Move screw (4) slightly into guide of door handle (3) during removal.

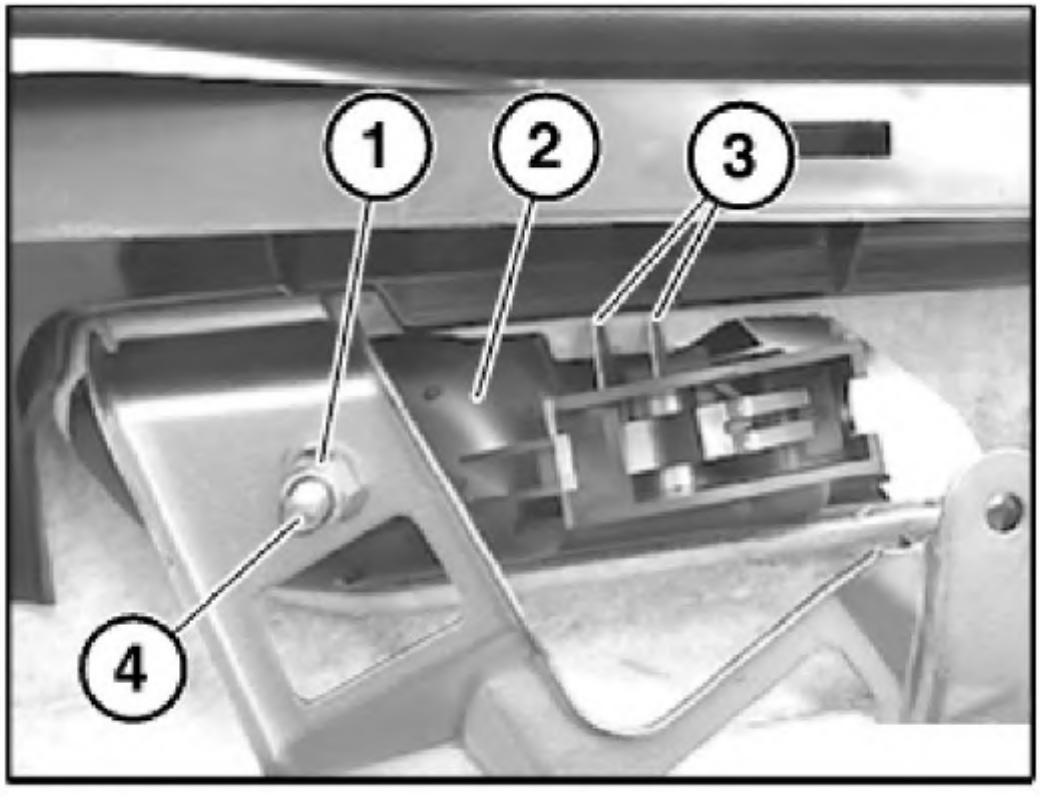


Fig. 202: Releasing Nut
Courtesy of BMW OF NORTH AMERICA, INC.

Twist inside door handle (1) inwards/upwards out of door trim panel (2).

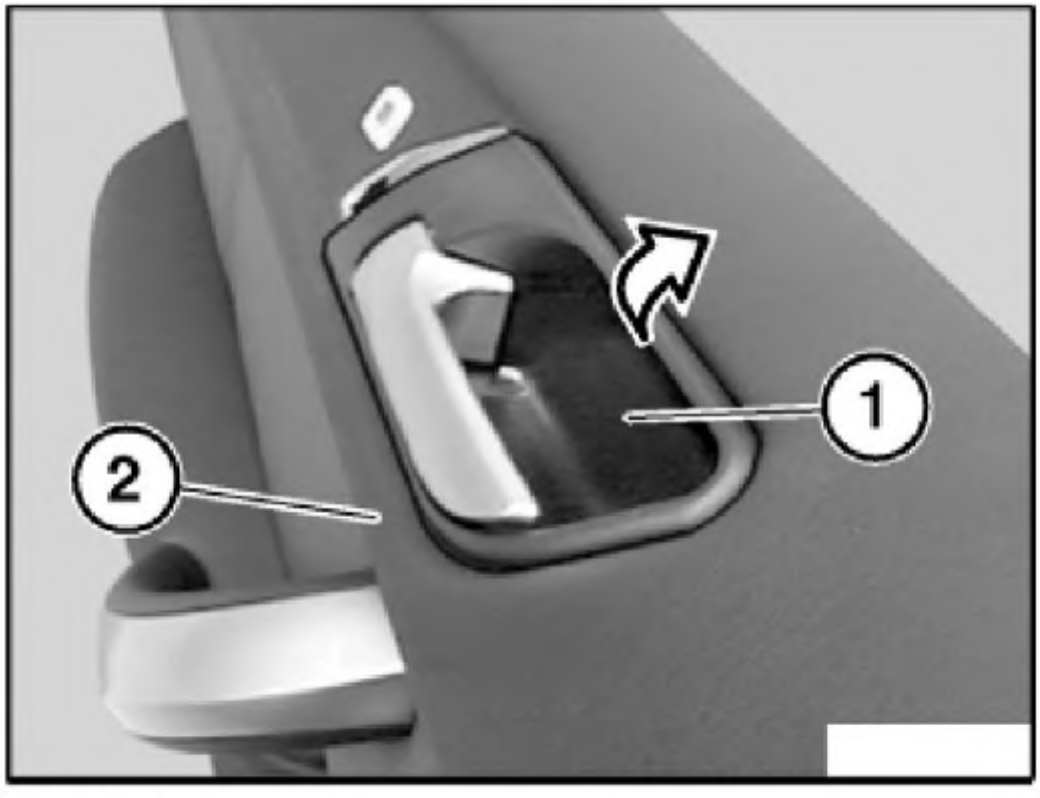
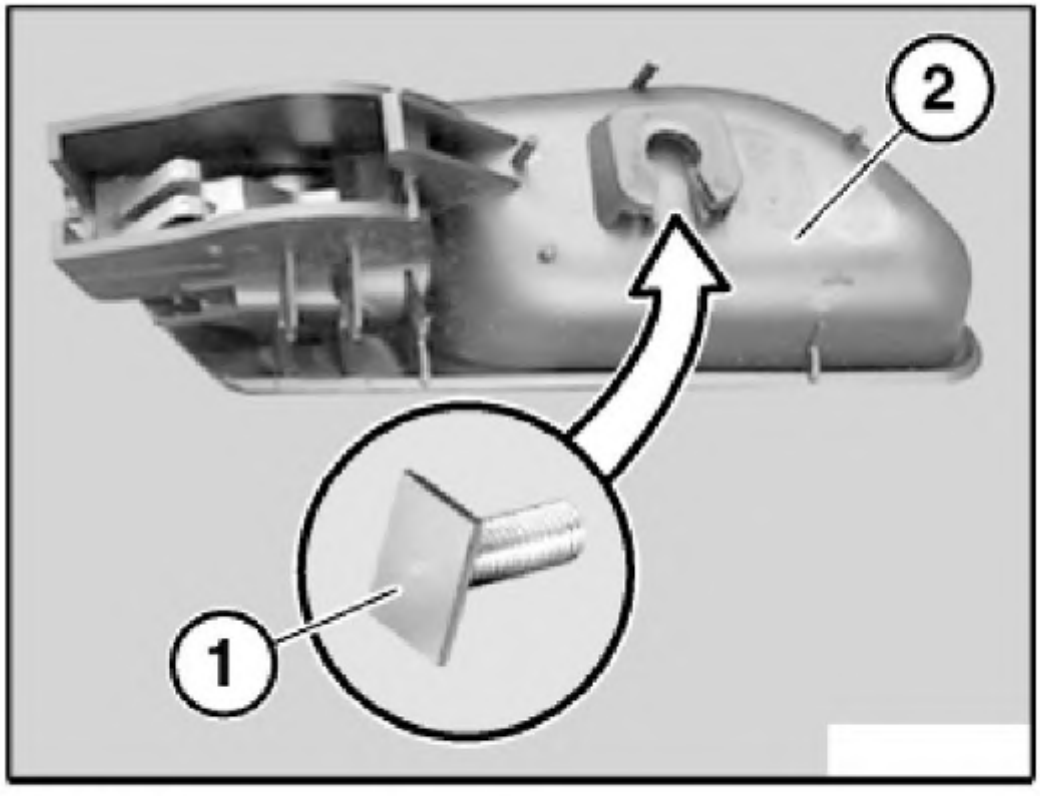


Fig. 203: Twisting Inside Door Handle Inwards/Upwards Out Of Door Trim Panel
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Mount in door handle (1) for screw (2) must not be damaged.



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Fig. 204: Installing Door Handle
Courtesy of BMW OF NORTH AMERICA, INC.

51 21 300 REMOVING AND INSTALLING/REPLACING WINDOW CAVITY COVER STRIP ON OUTSIDE OF FRONT DOOR

Special Tools Required:

- 00 9 311

Attach adhesive tape (1) below window cavity cover strip (2) (risk of damage).

Using special tool 00 9 311 and proceeding from rear to front, lever out window cavity cover strip (1).

Installation:

For installation, coat window cavity seal (1) with turpentine substitute (sourcing reference: BMW Parts Service).

Window cavity cover strip (1) must be flush with door edge at front and rear.

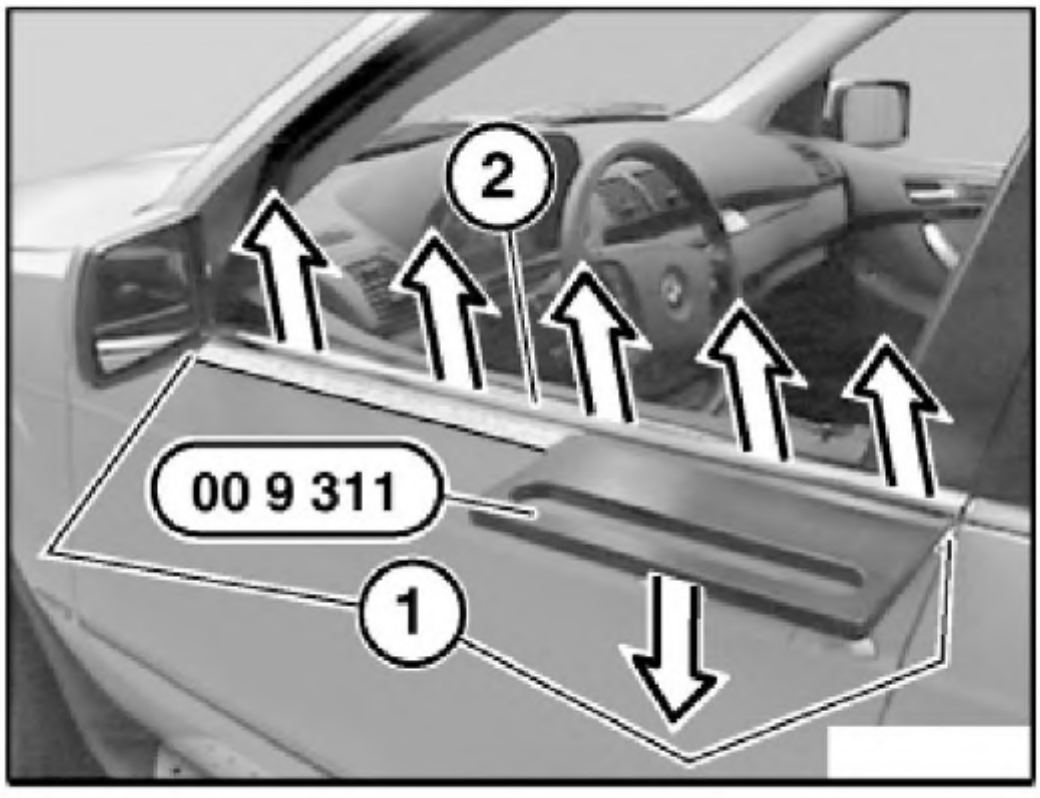


Fig. 205: Attaching Adhesive Tape Below Window Cavity Cover Strip
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Clip (1) must not be damaged.

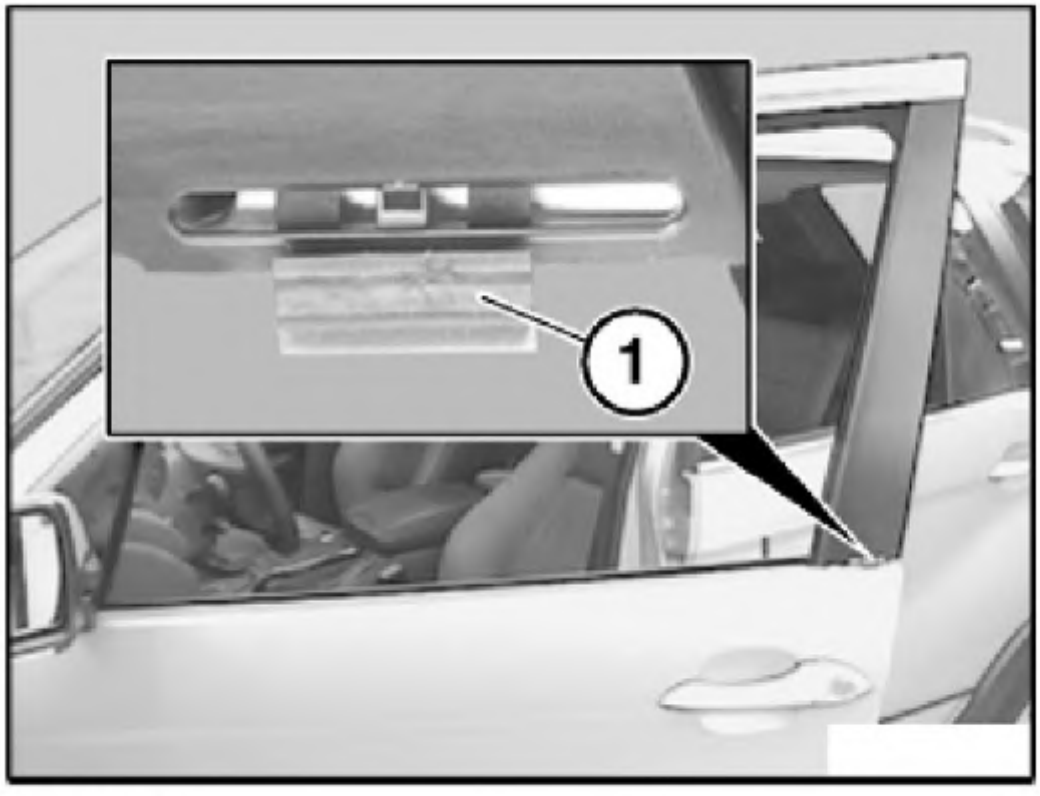


Fig. 206: Locating Clip
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Retainer (1) of window cavity cover strip (2) must not be damaged.

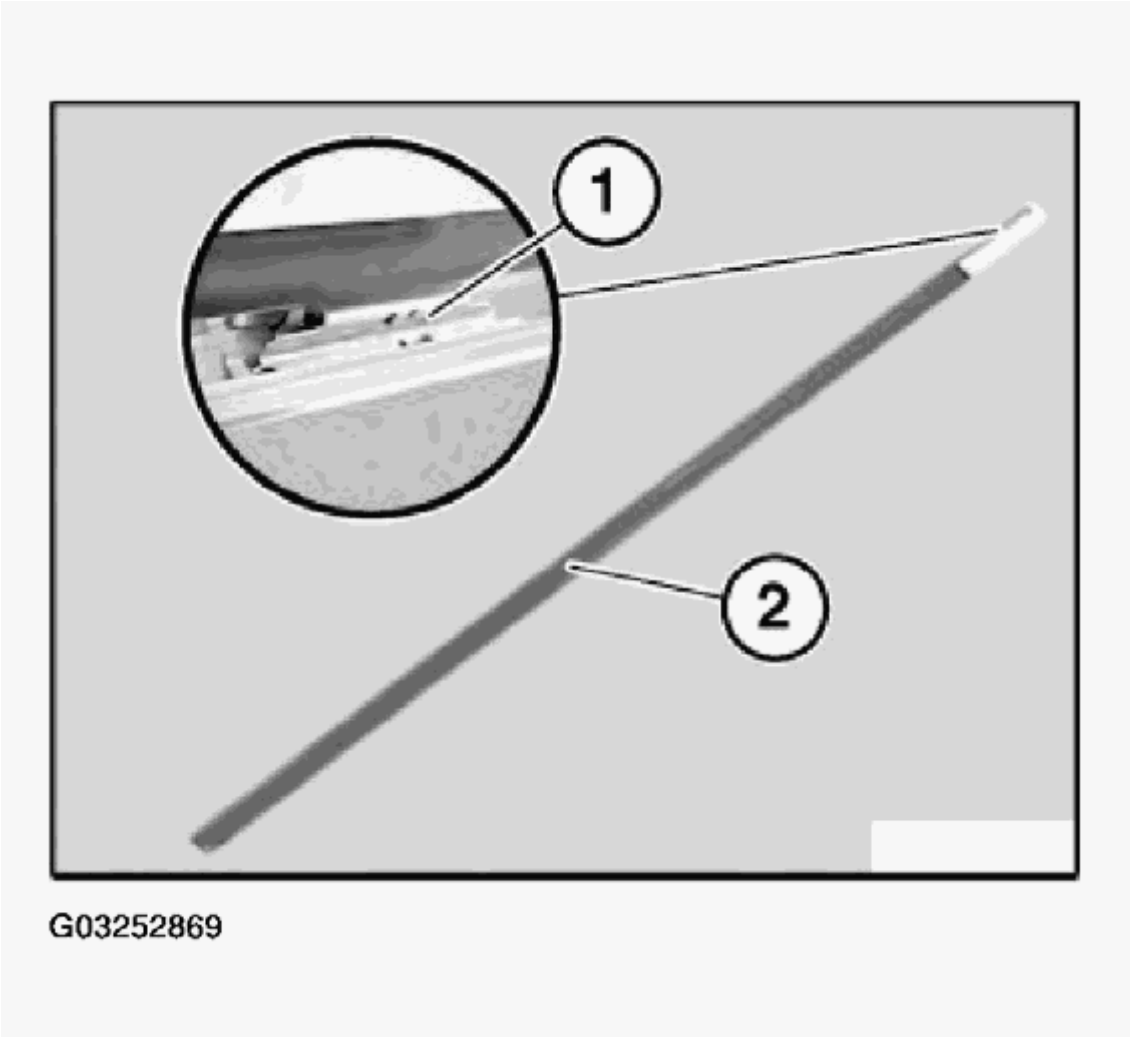


Fig. 207: Checking Retainer Of Window Cavity Cover Strip
Courtesy of BMW OF NORTH AMERICA, INC.

51 21 351 REPLACING WINDOW CAVITY SEAL ON LEFT OR RIGHT FRONT DOOR

Pull off window cavity seal (1) towards top.

Installation:

If necessary, replace faulty clips (2).

For installation, coat window cavity seal (1) with turpentine substitute (sourcing reference: BMW Parts Service).

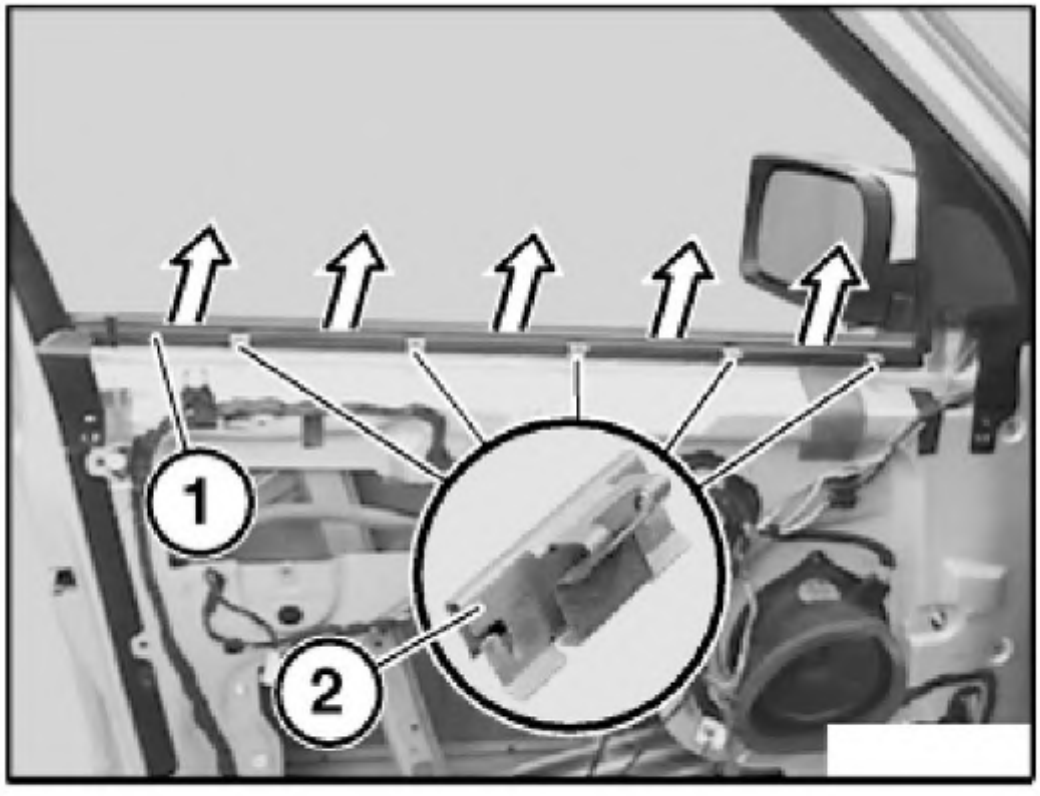


Fig. 208: Pulling Off Window Cavity Seal Towards Top
Courtesy of BMW OF NORTH AMERICA, INC.

REAR DOOR LOCKS, HANDLES, FITTINGS

51 22 004 ADJUSTING REAR LEFT OR RIGHT DOOR DETENT (LOCK WEDGES)

Adjust left or right door as necessary.

51 22 090 REMOVING AND INSTALLING/REPLACING DOOR LOCK ON LEFT OR RIGHT REAR DOOR

Raise the door window.

Remove sound insulation on rear door. See **51 48 ... Removing And Installing/Replacing Sound Insulation In Rear Door, Left Or Right** .

Disconnect plug connection (1) on door lock (2).

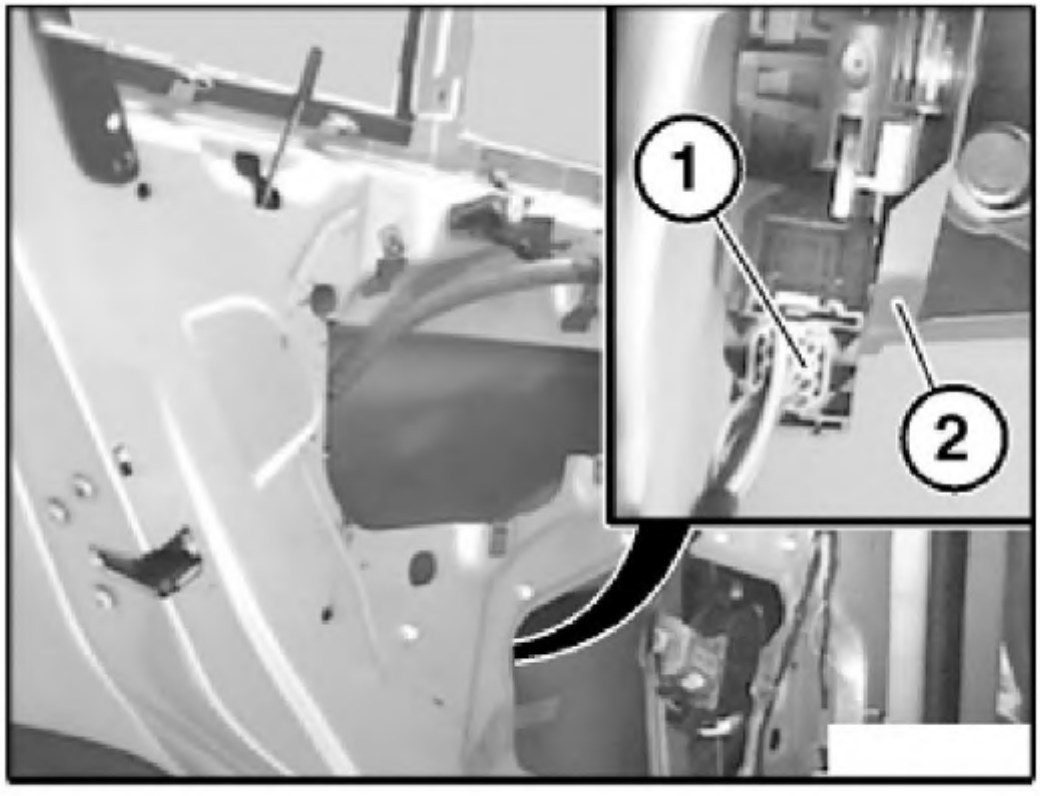
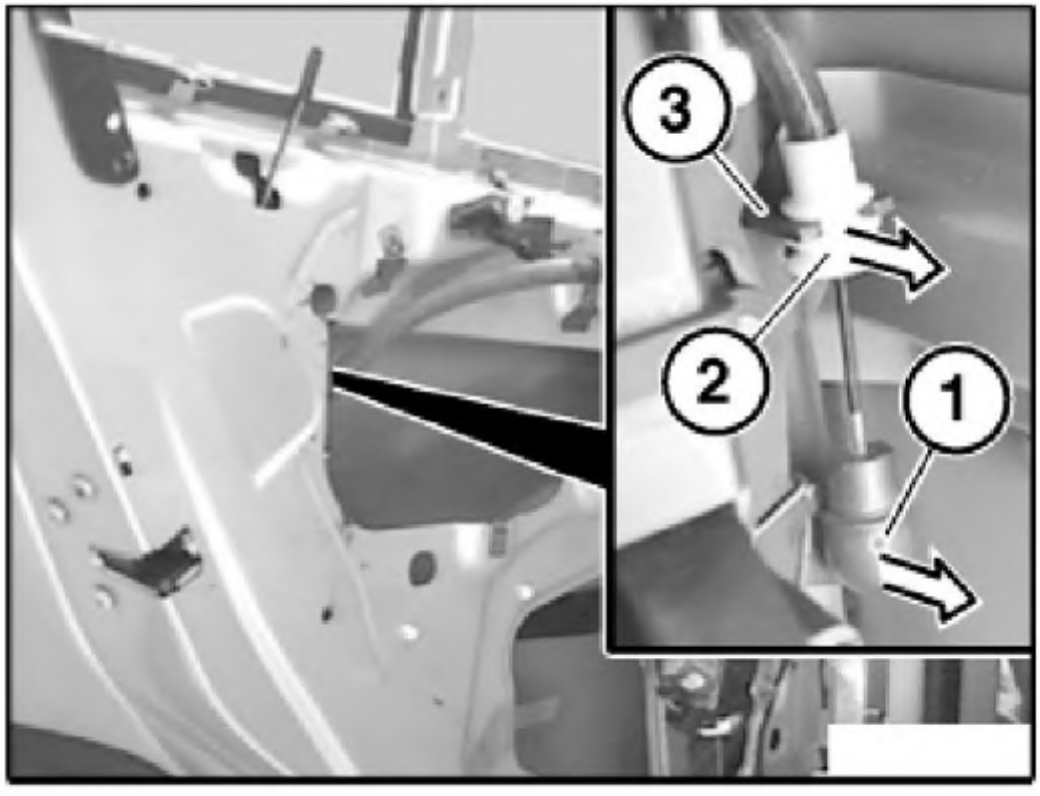


Fig. 209: Disconnecting Plug Connection On Door Lock
Courtesy of BMW OF NORTH AMERICA, INC.

Unclip ball head (1).

Detach Bowden cable (2) from support (2) on door lock.



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Fig. 210: Uncliping Ball Head
Courtesy of BMW OF NORTH AMERICA, INC.

Release screws (1).

Remove door lock (2) with linkage (3).

Installation:

Insert linkage for locking knob through opening in inner door plate.

Do not bend linkage (3).

Replace screws (1).

Tightening torque, see 51 22 1AZ in **BODY EQUIPMENT - TIGHTENING TORQUES** .

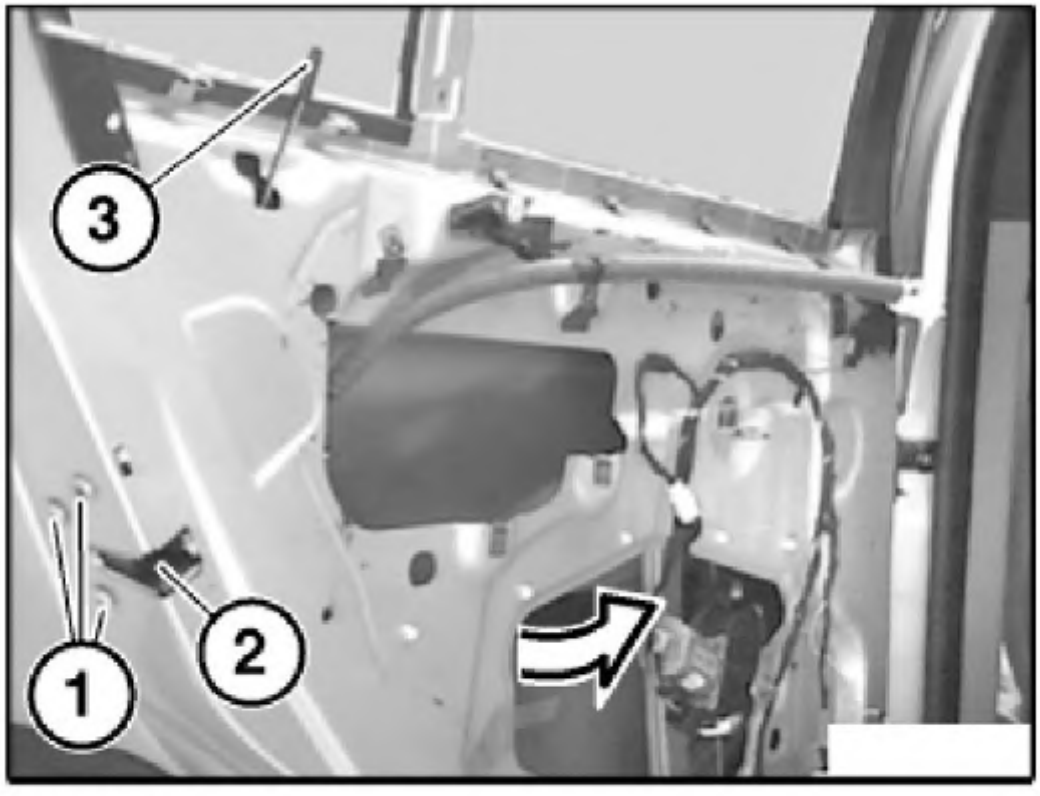


Fig. 211: Removing Door Lock With Linkage
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Carry out function check only with door open.

- Close rotary latch lock (1) with a screwdriver,
- lock car with car key,
- unlock car with car key,
- open rotary latch lock (1) with outside door handle.
- If rotary latch lock opens, then O.K.
- If rotary latch lock fails to open,
- a new lock actuator must be fitted.

CAUTION: Door lock and door detent (lock striker) must not be greased.

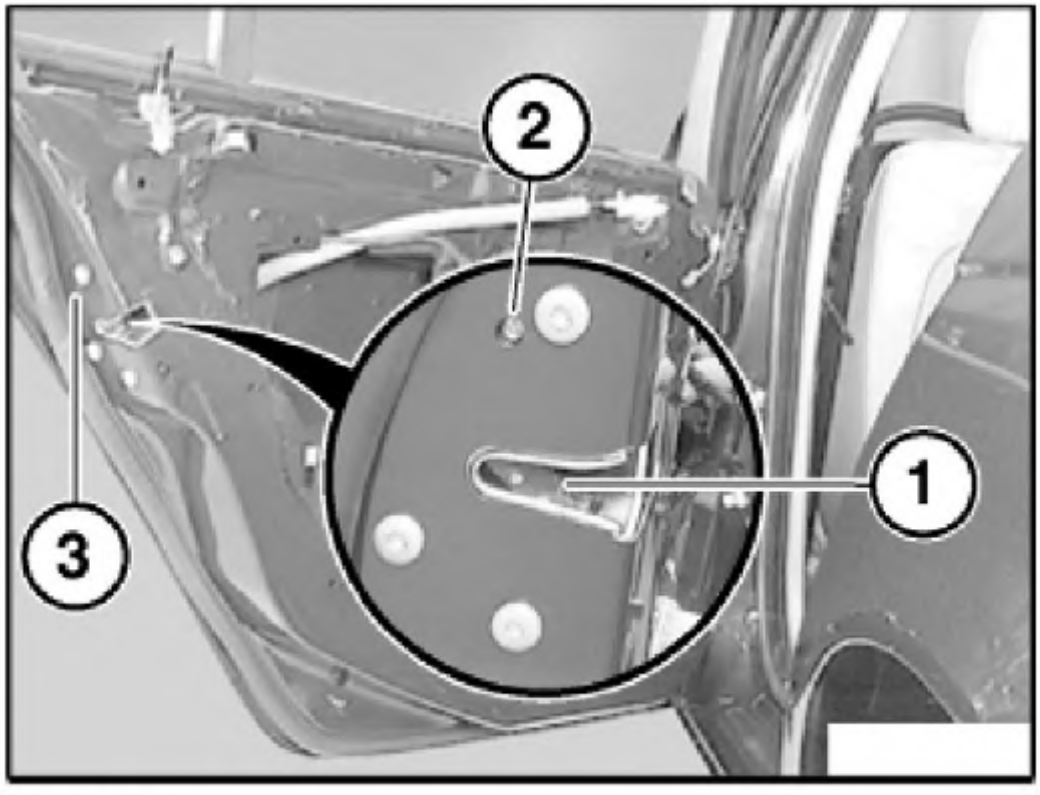


Fig. 212: Checking Functions
Courtesy of BMW OF NORTH AMERICA, INC.

Only replacement:

Lift out lock (1) and detach Bowden cable (2) from fixture (3).

Remove Bowden cable nipple (4) from lever (5).

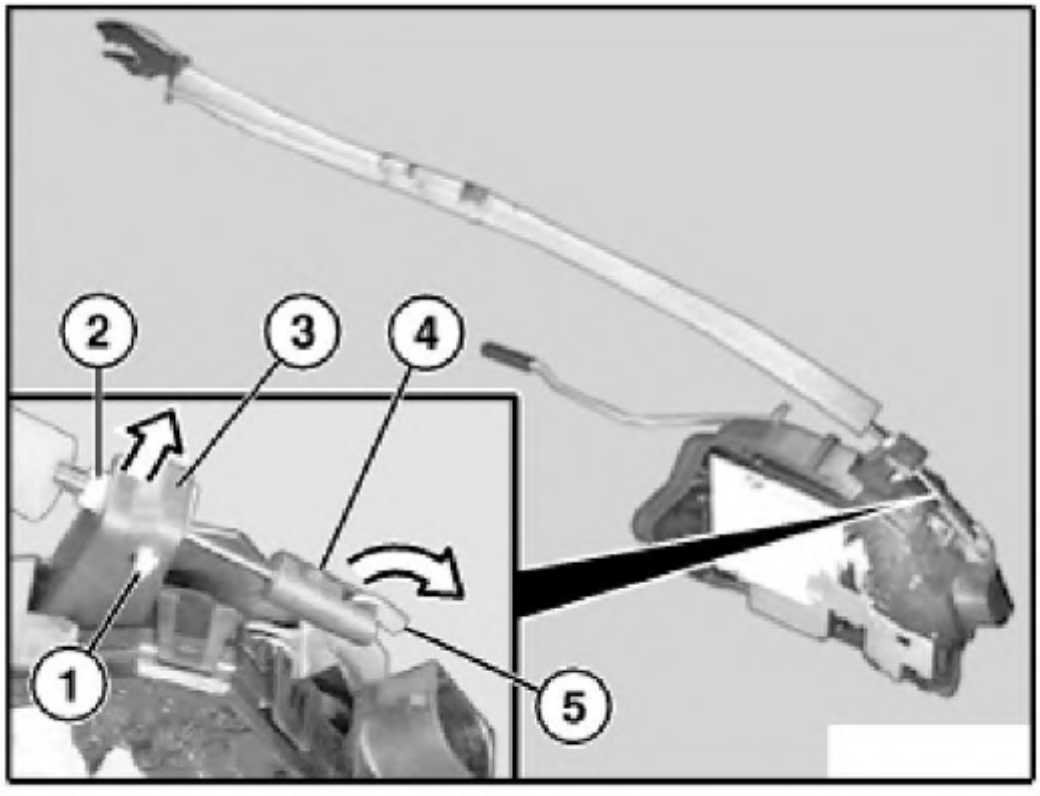


Fig. 213: Removing Bowden Cable Nipple From Lever
Courtesy of BMW OF NORTH AMERICA, INC.

Only replacement:

Unclip linkage for locking knob (2) from support (1) and feed out of guide (3).

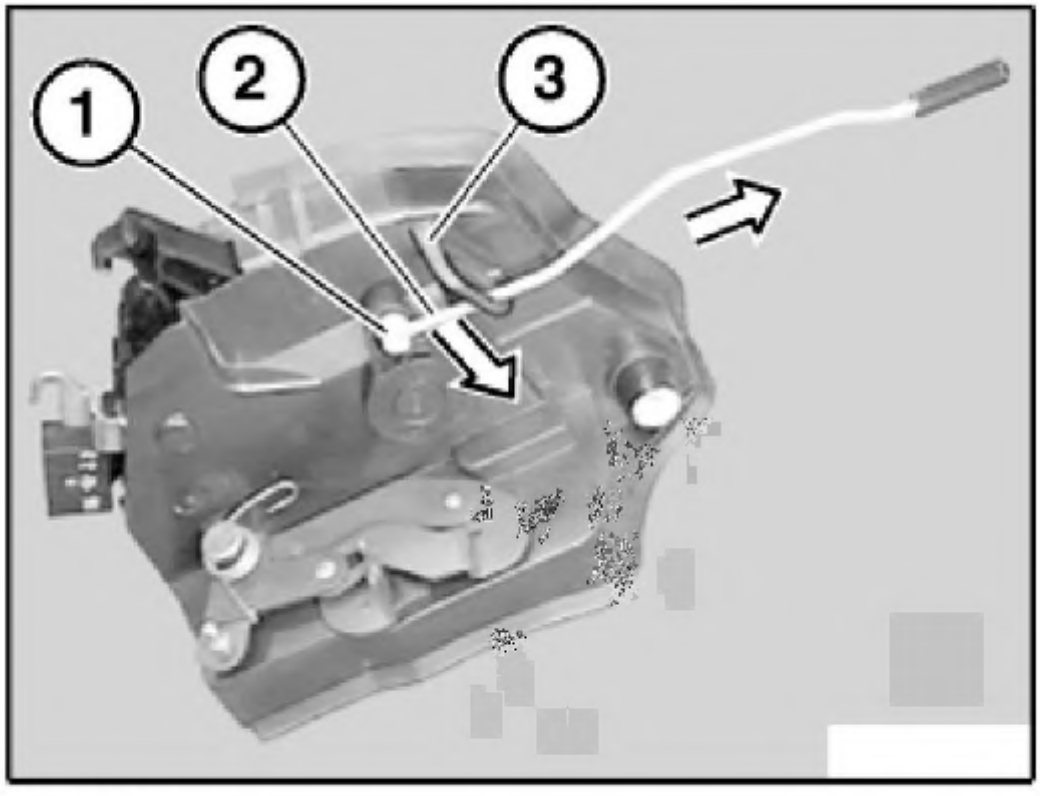


Fig. 214: Uncliping Linkage For Locking Knob From Support
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Following parts must not be damaged or missing:

1. Spring
2. Support for Bowden cable of lock plate
3. Mount for linkage of locking knob
4. Lever for child safety catch

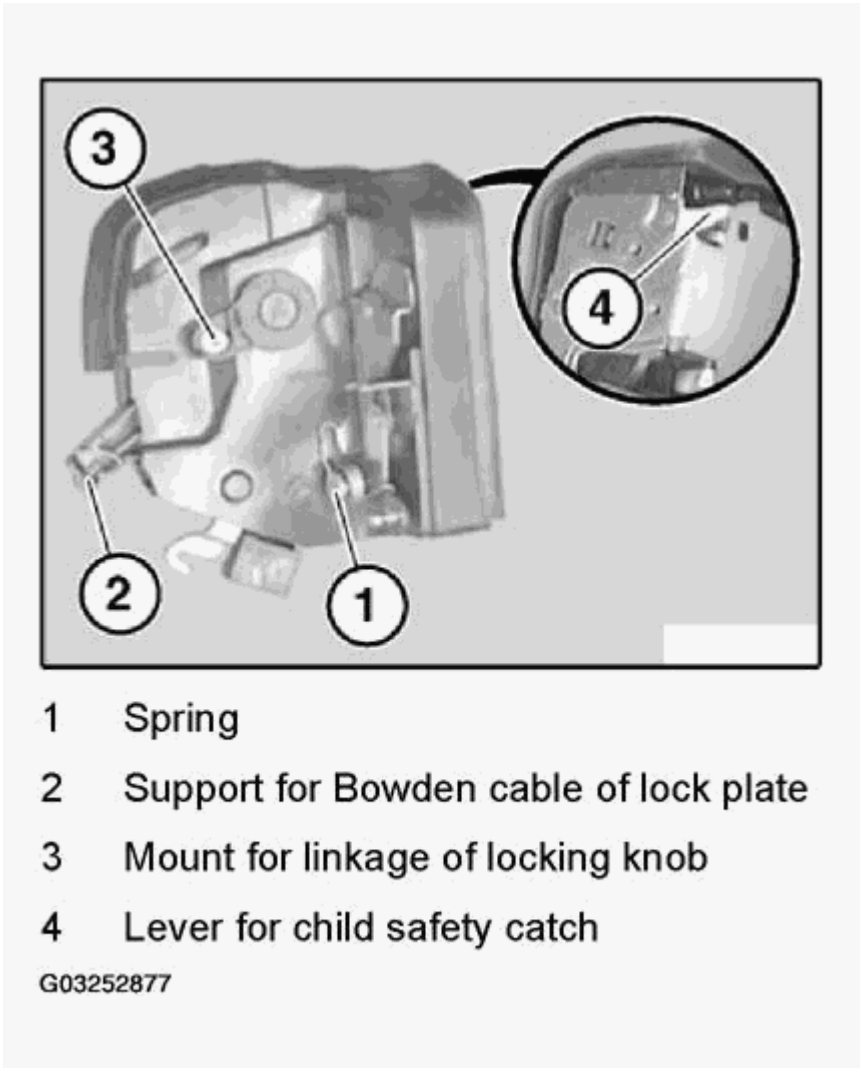


Fig. 215: Identifying Bowden Cable Of Lock Plate
Courtesy of BMW OF NORTH AMERICA, INC.

51 22 170 REMOVING AND INSTALLING/REPLACING OUTSIDE HANDLE ON LEFT OR RIGHT BACK DOOR

Removal:

Remove cover on outside handle.

Slacken nut (1) on outside handle (2) (do not release fully).

Installation:

Contact surface (3) of outside handle (2) must rest without play against lock actuator (4).

Tightening torque, see 51 22 5AZ in **BODY EQUIPMENT - TIGHTENING TORQUES** .

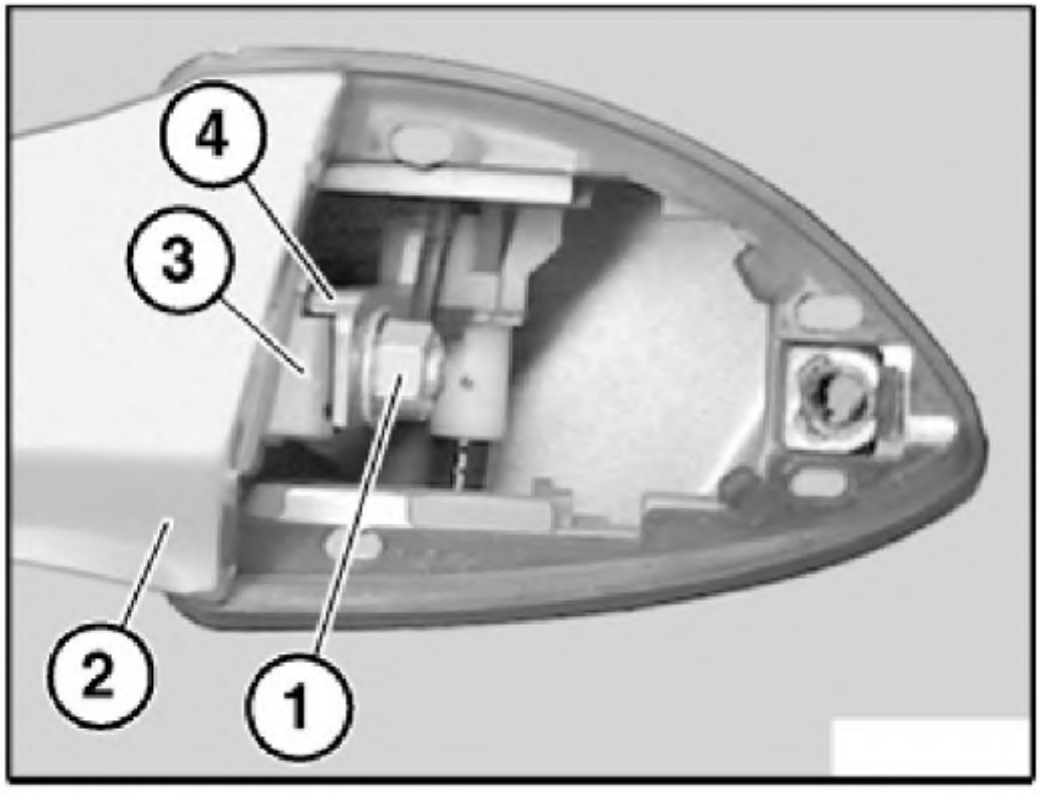


Fig. 216: Removing Cover On Outside Handle
Courtesy of BMW OF NORTH AMERICA, INC.

NOTE: Fit the older outer frame (1) of screw cover (damage to paint).

Pull outside handle (2) as far outwards/upwards as possible and secure in this position with a screwdriver (3).

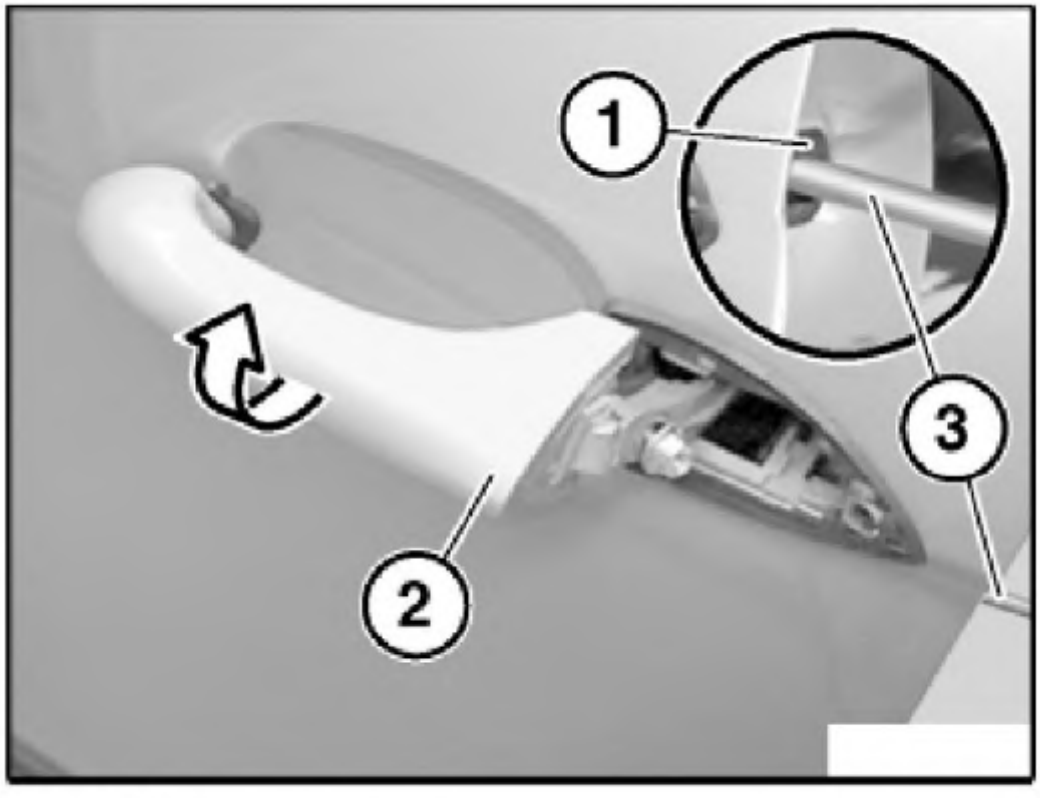


Fig. 217: Fitting Older Outer Frame Of Screw Cover
Courtesy of BMW OF NORTH AMERICA, INC.

NOTE: For removal, the outside handle (1) must remain secured with a screwdriver (3).

A. A Pull off outside handle (1) from rear lock actuator (2).
B. B Pull off outside handle (1) in lowest setting from front lock actuator (4). See **Fig. 218** .

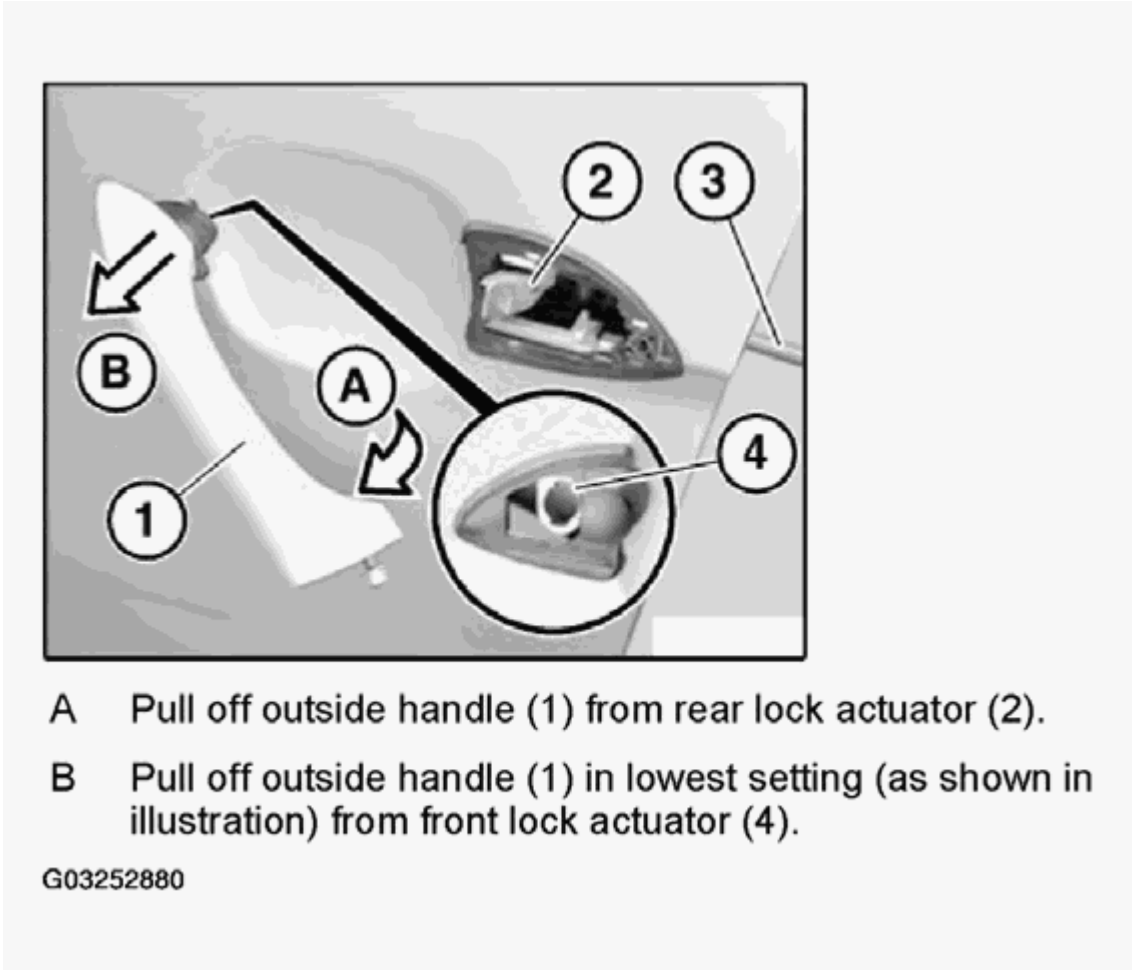


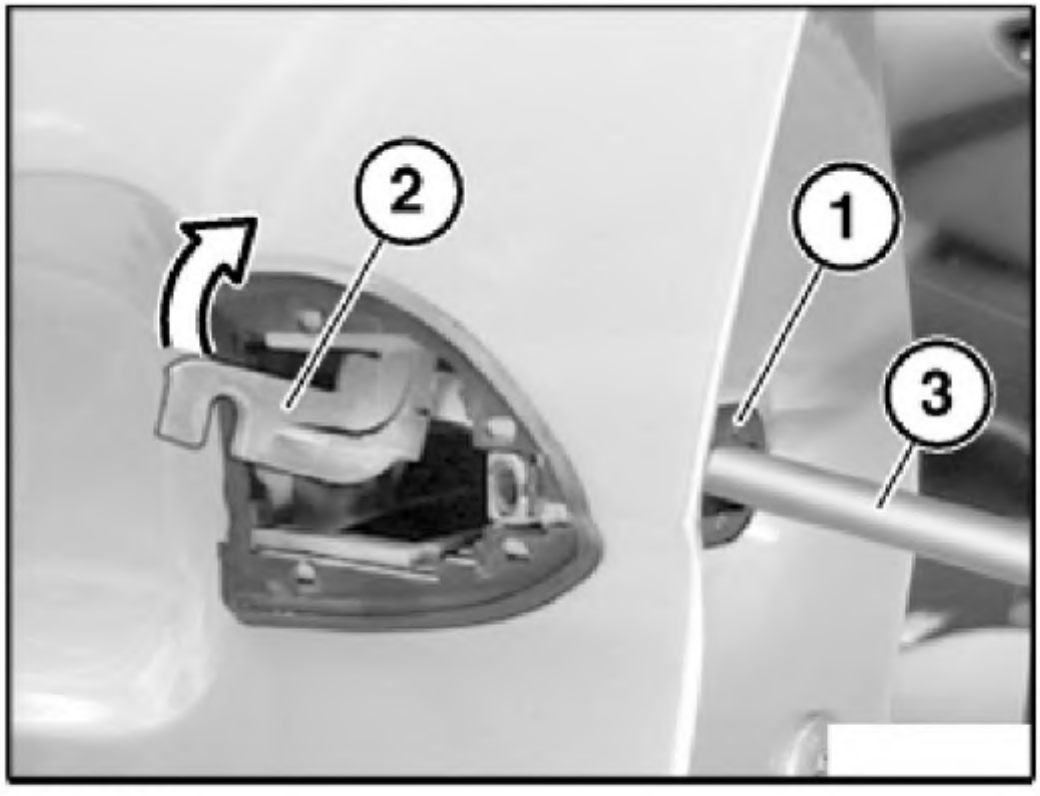
Fig. 218: Pulling Off Outside Handle In Lowest Setting
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Old outer frame (1) of screw cover must be fitted (damage to paint).

Press lock actuator (1) with a screwdriver (2) fully into "Open" setting.

Mount outside handle in this position.



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Fig. 219: Pressing Lock Actuator
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Supports (1) and (2) on outside handle (3) must not be damaged.

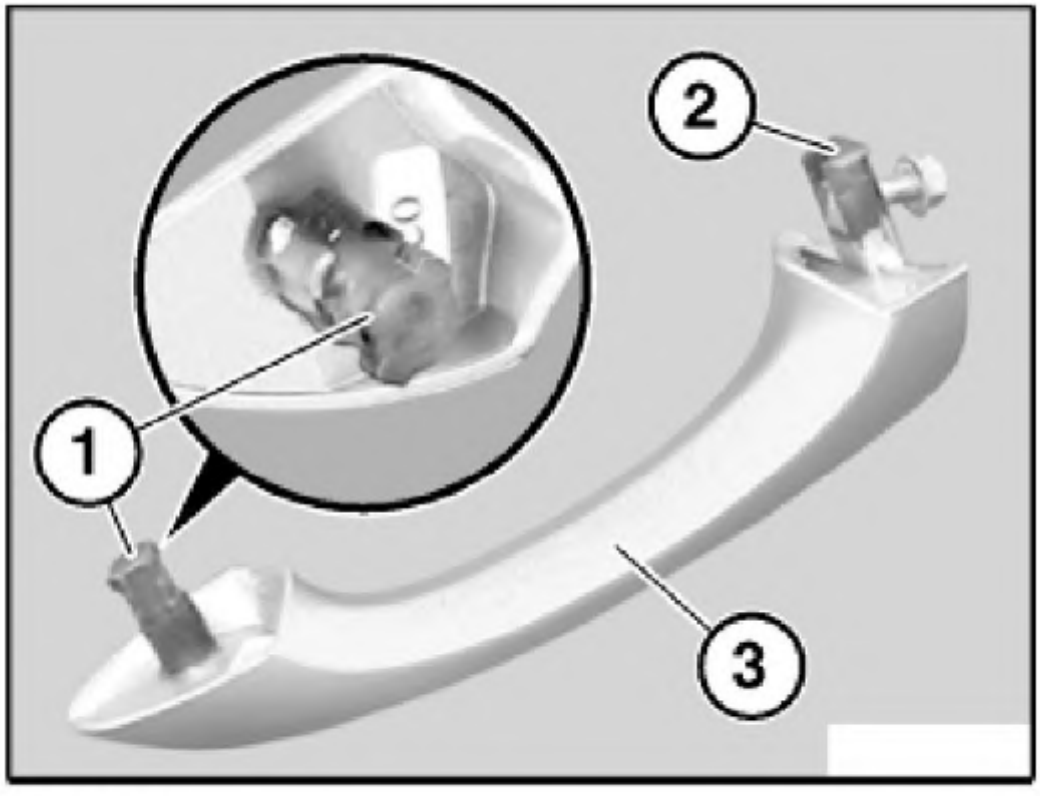


Fig. 220: Supports (1) And (2) On Outside Handle
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

If necessary, replace faulty seals (1) and (2) for outside handle.

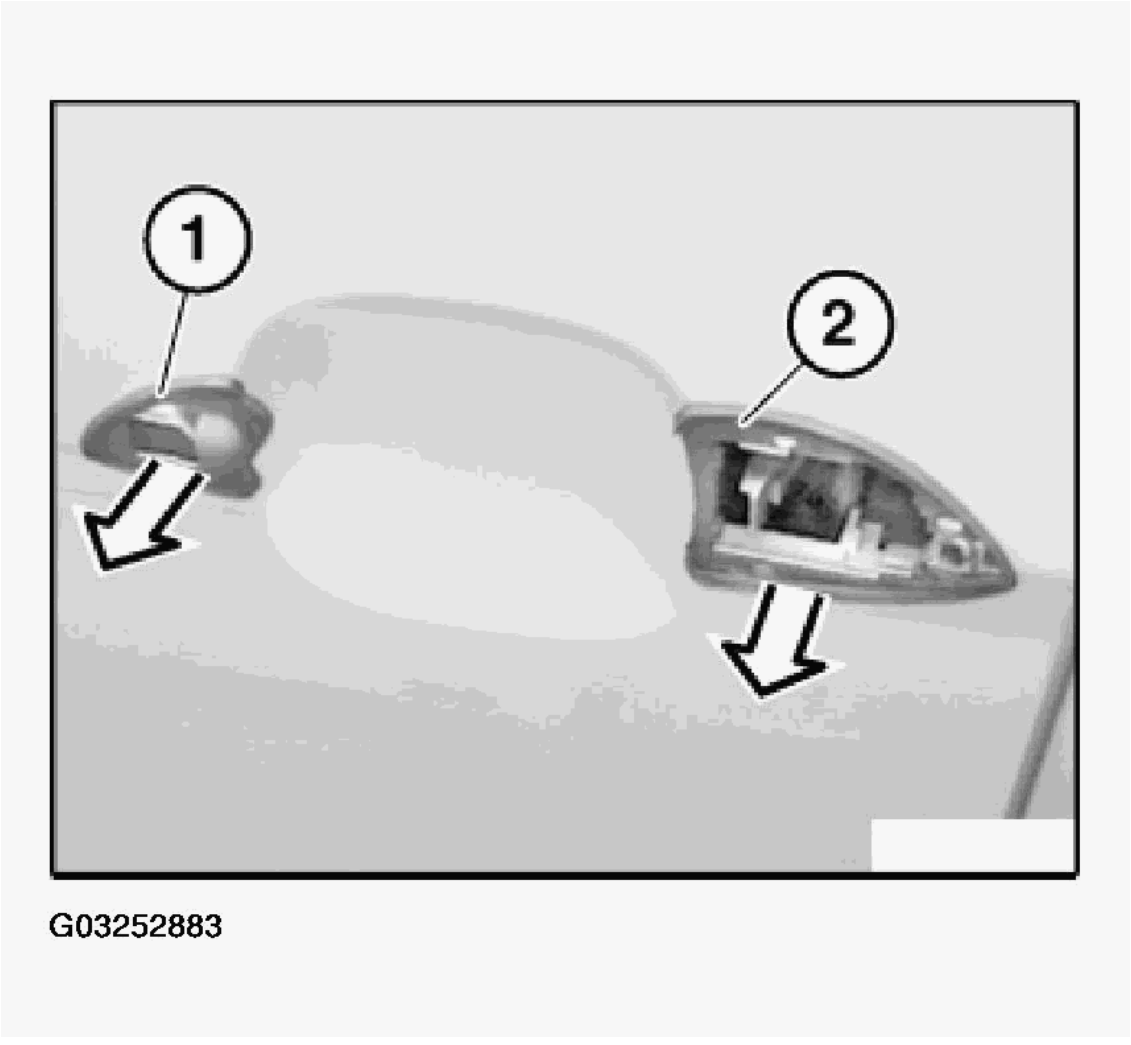


Fig. 221: Checking Seals For Outside Handle
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Carry out function check only with door open.

51 22 180 REMOVING AND INSTALLING/REPLACING COVER ON OUTSIDE HANDLE, LEFT OR RIGHT

Lever out trim (1) and frame (2).

NOTE: After releasing screw, you must reinstall frame (2) (damage to paint).

Installation:

Install new trim (1) and frame (2).

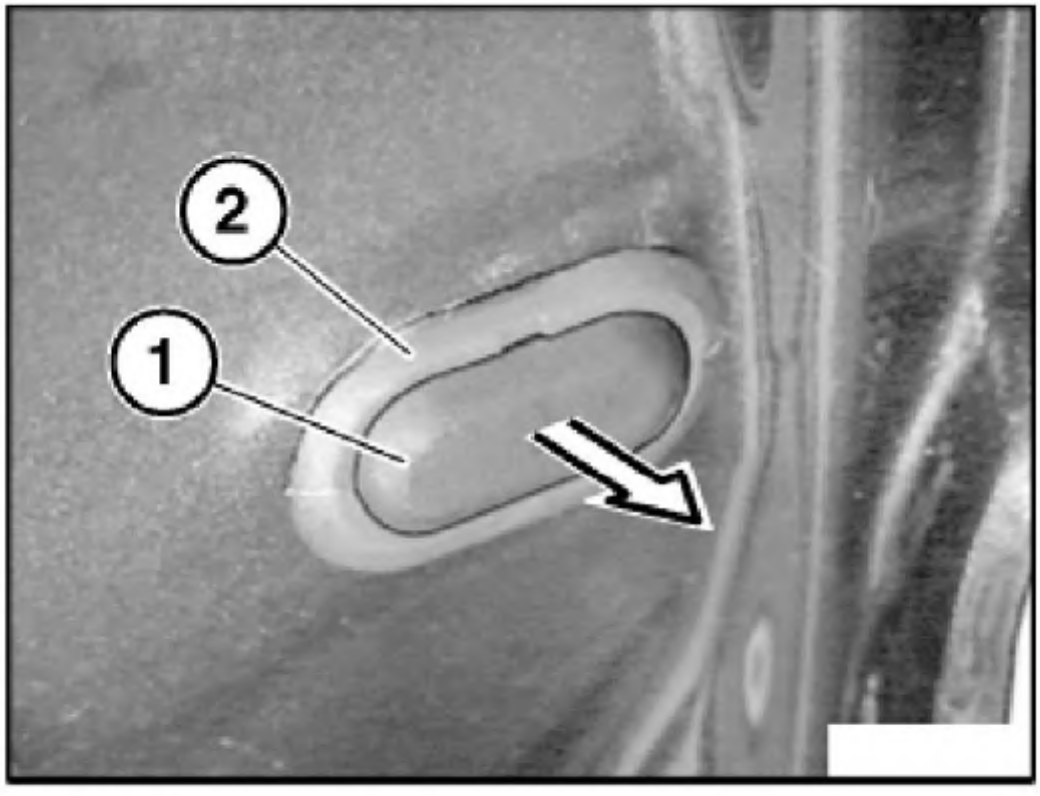


Fig. 222: Installing Trim And Frame
Courtesy of BMW OF NORTH AMERICA, INC.

Release screw (1).

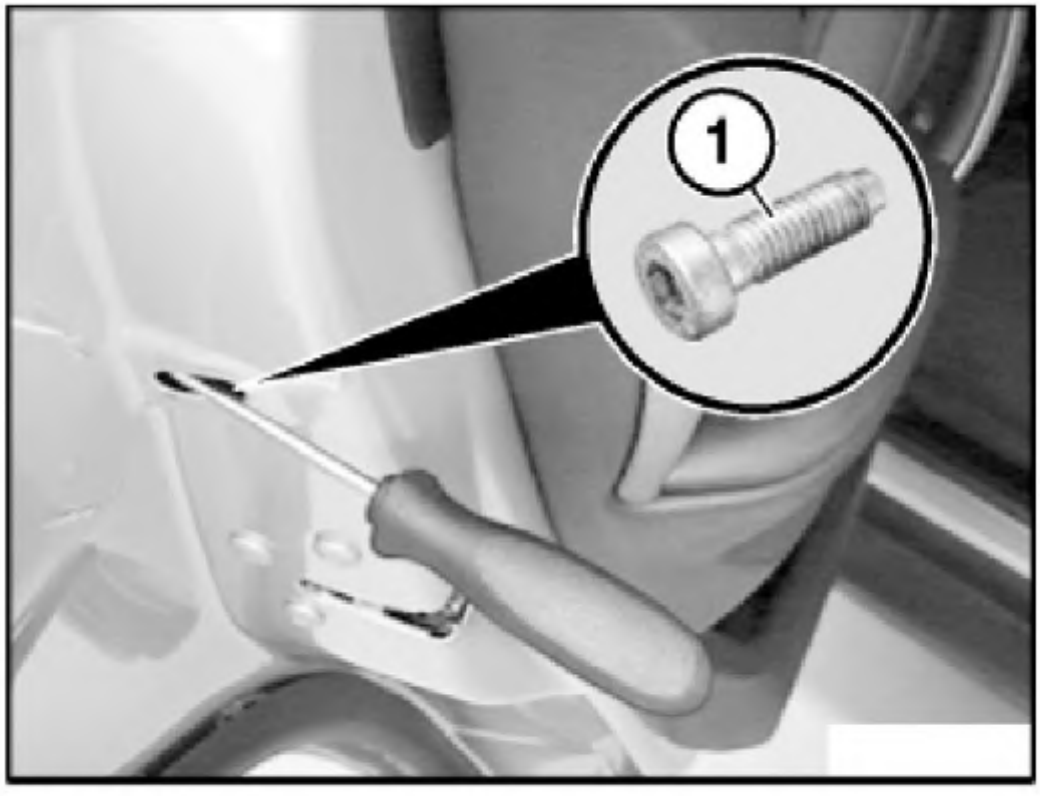


Fig. 223: Releasing Screw
Courtesy of BMW OF NORTH AMERICA, INC.

Remove cover (1) on outside handle:

A. Pull cover (1) approx. 1 ... 2 mm towards rear.
B. Take off cover (1).

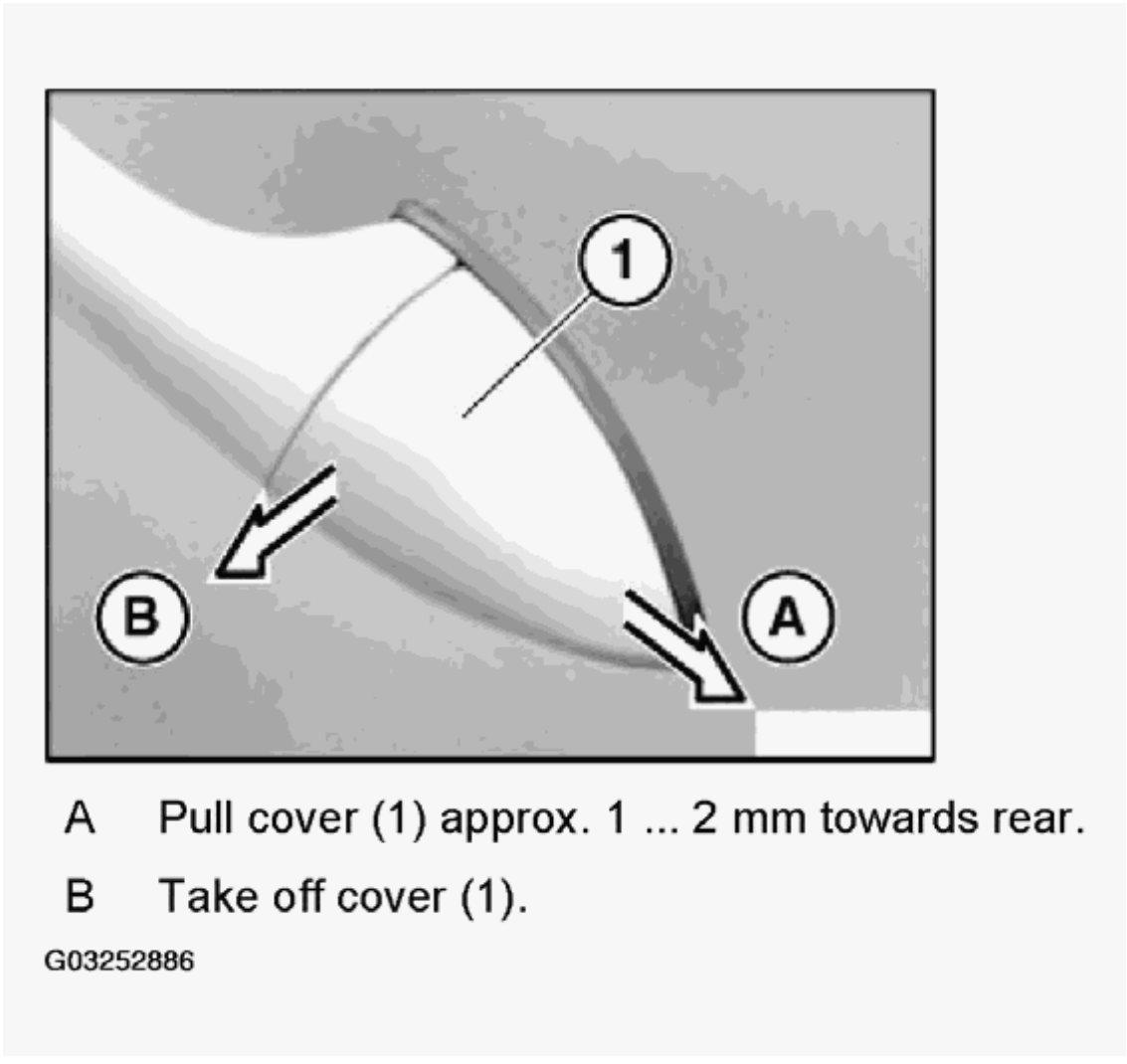
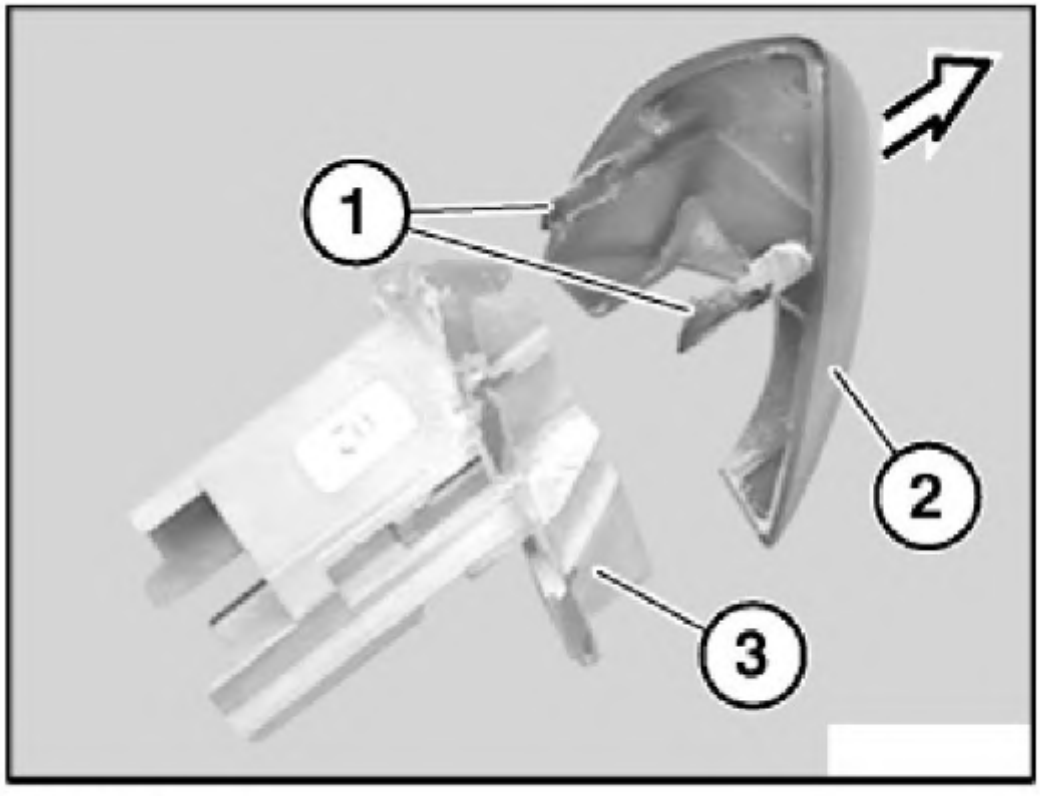


Fig. 224: Removing Cover On Outside Handle
Courtesy of BMW OF NORTH AMERICA, INC.

Lever out catches (1) and detach cover (2) from filler element (3).

Installation:

Catches (1) on cover (2) must not be damaged.



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Fig. 225: Checking Catches On Cover
Courtesy of BMW OF NORTH AMERICA, INC.

51 22 200 REMOVING AND INSTALLING/REPLACING OUTSIDE HANDLE AND LOCK CONTROL ON LEFT OR RIGHT REAR DOOR

Remove sound insulation on rear door. See **51 48 ... Removing And Installing/Replacing Sound Insulation In Rear Door, Left Or Right** .

Remove outside handle on rear door. See **51 22 170 Removing And Installing/Replacing Outside Handle On Left Or Right Back Door** .

Remove seals (1) and (2) for outside handle.

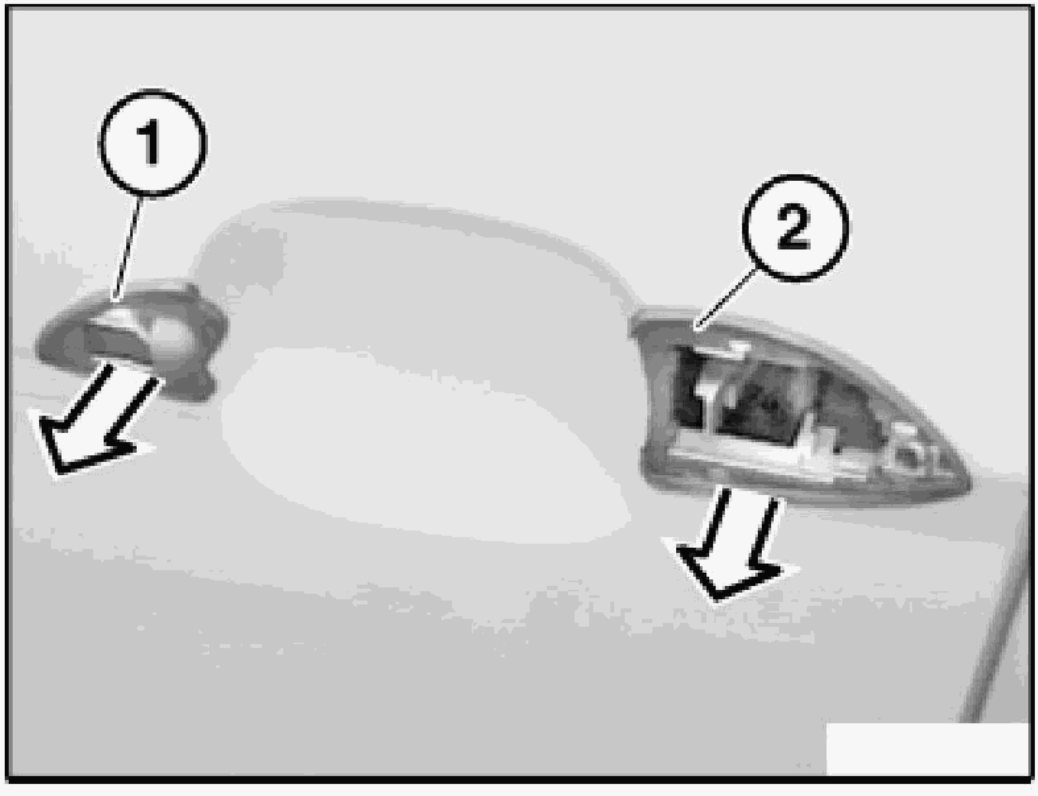


Fig. 226: Removing Seals (1) And (2) For Outside Handle
Courtesy of BMW OF NORTH AMERICA, INC.

Unclip ball head (1).

Detach Bowden cable (2) from support (3) on door lock.

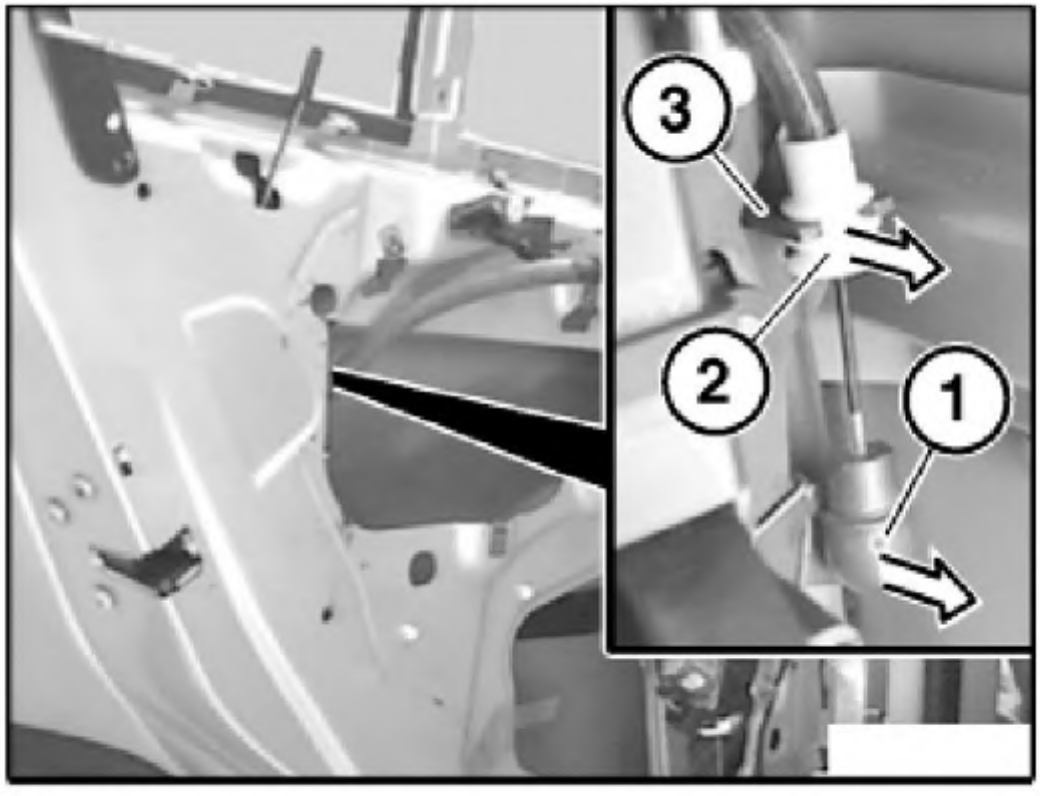


Fig. 227: Detaching Bowden Cable (2) From Support
Courtesy of BMW OF NORTH AMERICA, INC.

Slacken screw (1) (do not release fully).

Lift out lock actuator (2) towards front and remove to inner door panel.

Installation:

Guide (3) must be located outside metal edge (4).

Lock actuator (5) must be flush with guide (6).

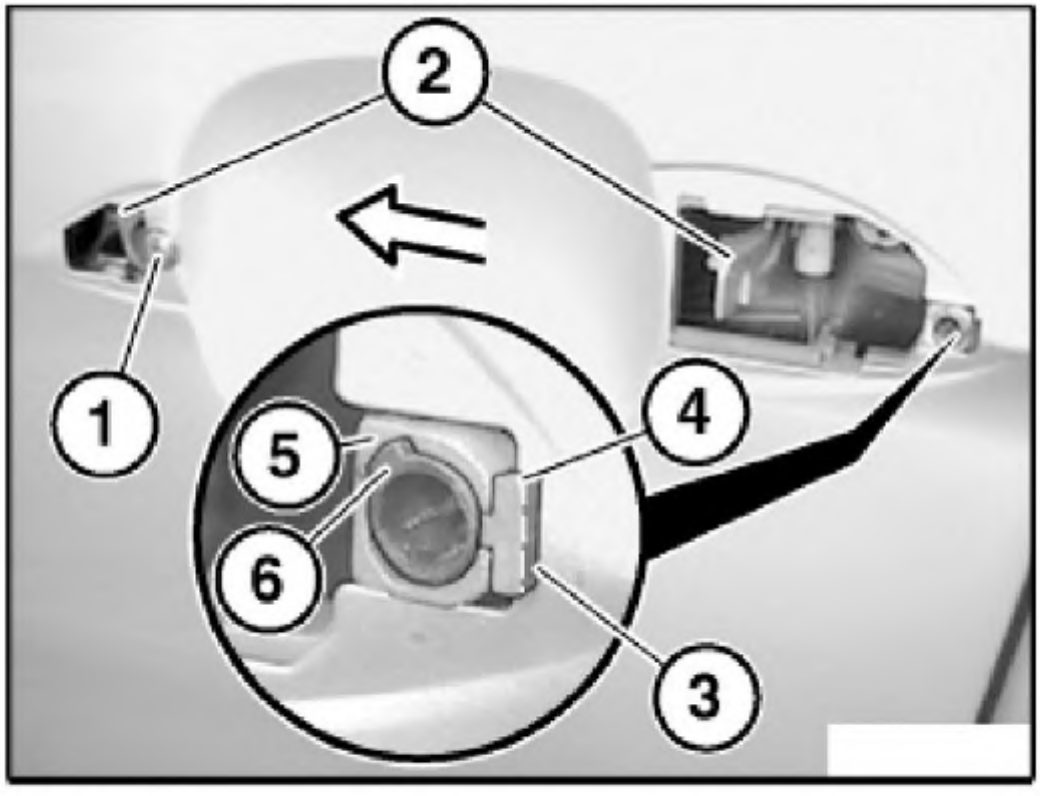


Fig. 228: Ensuring Lock Actuator (5) Is Flush With Guide (6)
Courtesy of BMW OF NORTH AMERICA, INC.

CAUTION: Bowden cable (1) must not be removed or replaced.
In event of a mix-up, the door will not be able to be opened.
Lock actuator (2) has a white marking on Bowden cable (1).

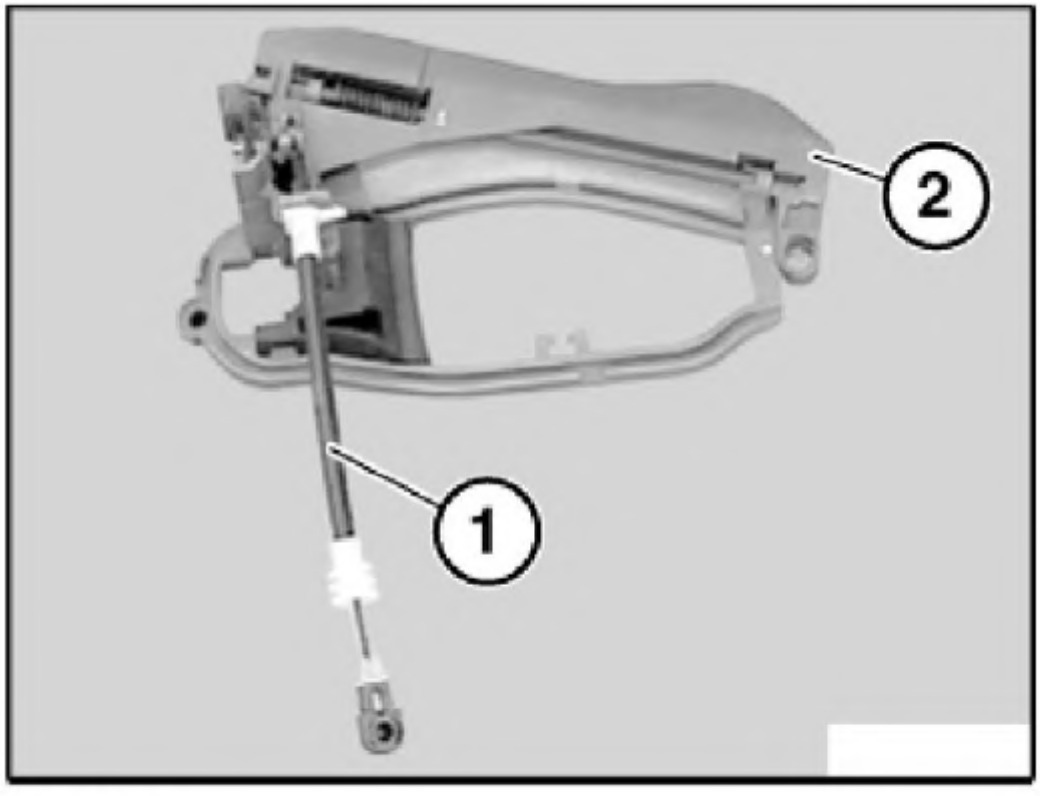


Fig. 229: Removing Bowden Cable
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Bowden cable (1) must be fitted correctly with lock actuator (2).

Seal (3) must be fitted - wind noises.

Buffers (4) must be fitted.

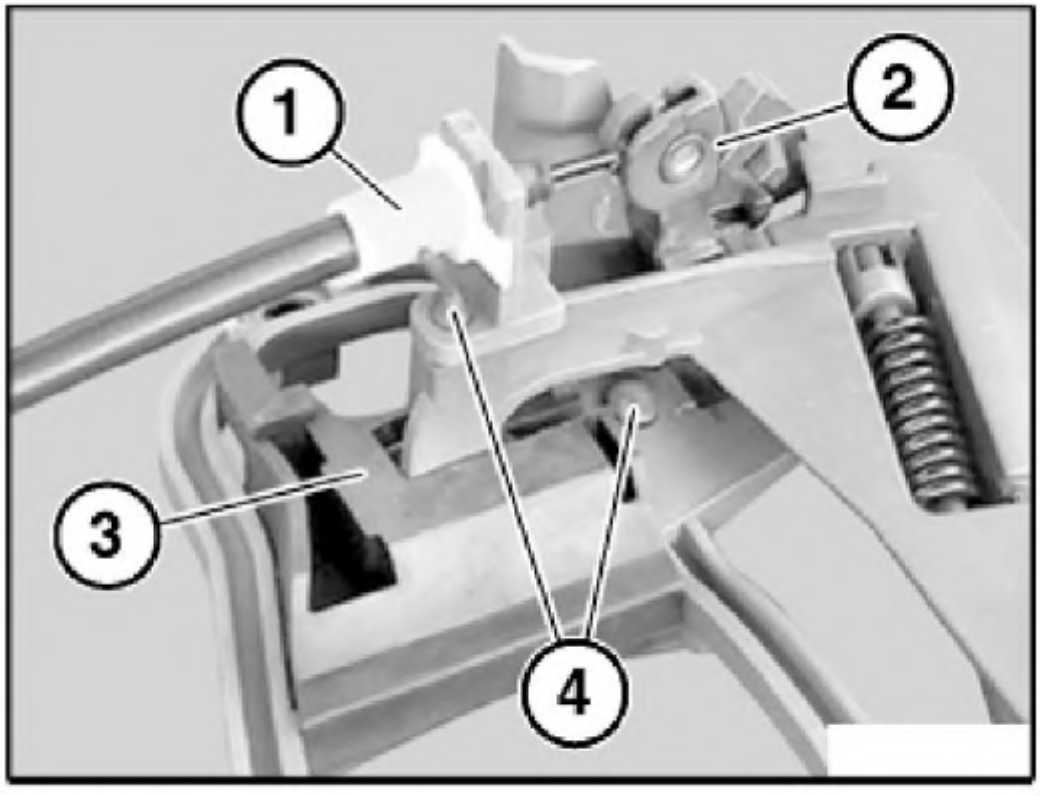


Fig. 230: Installing Bowden Cable
Courtesy of BMW OF NORTH AMERICA, INC.

If necessary, replace screw (1) on lock actuator (2).

Guide (3) must be flush with support (4).

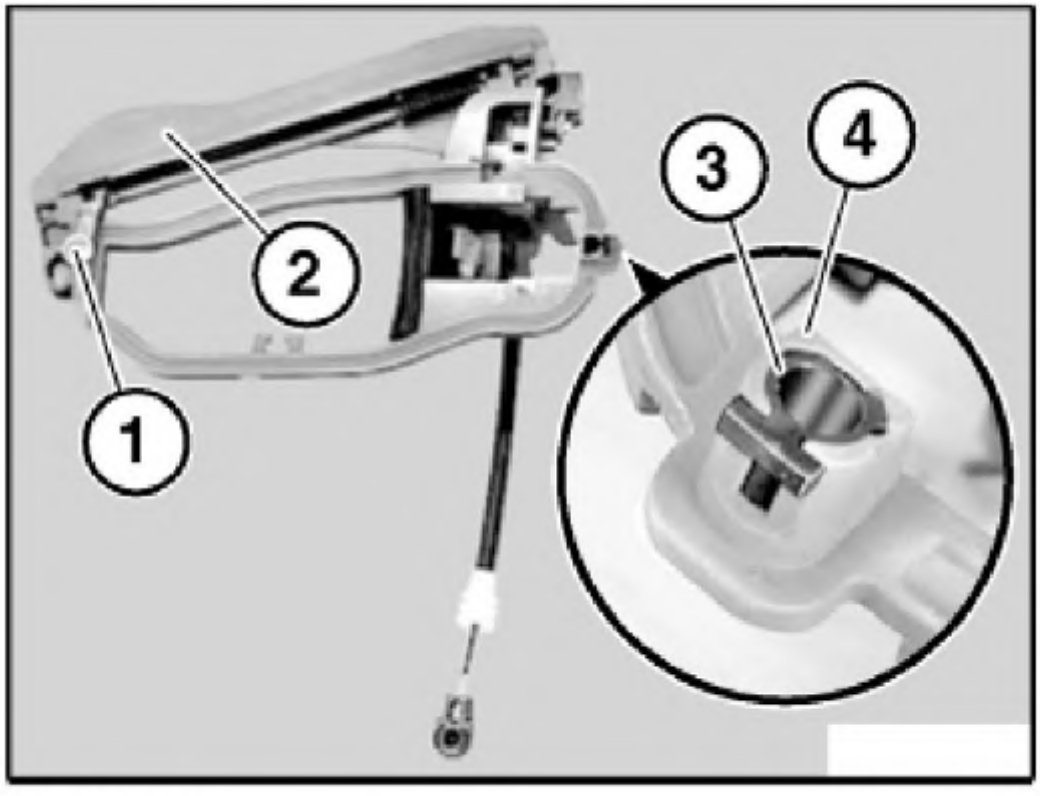


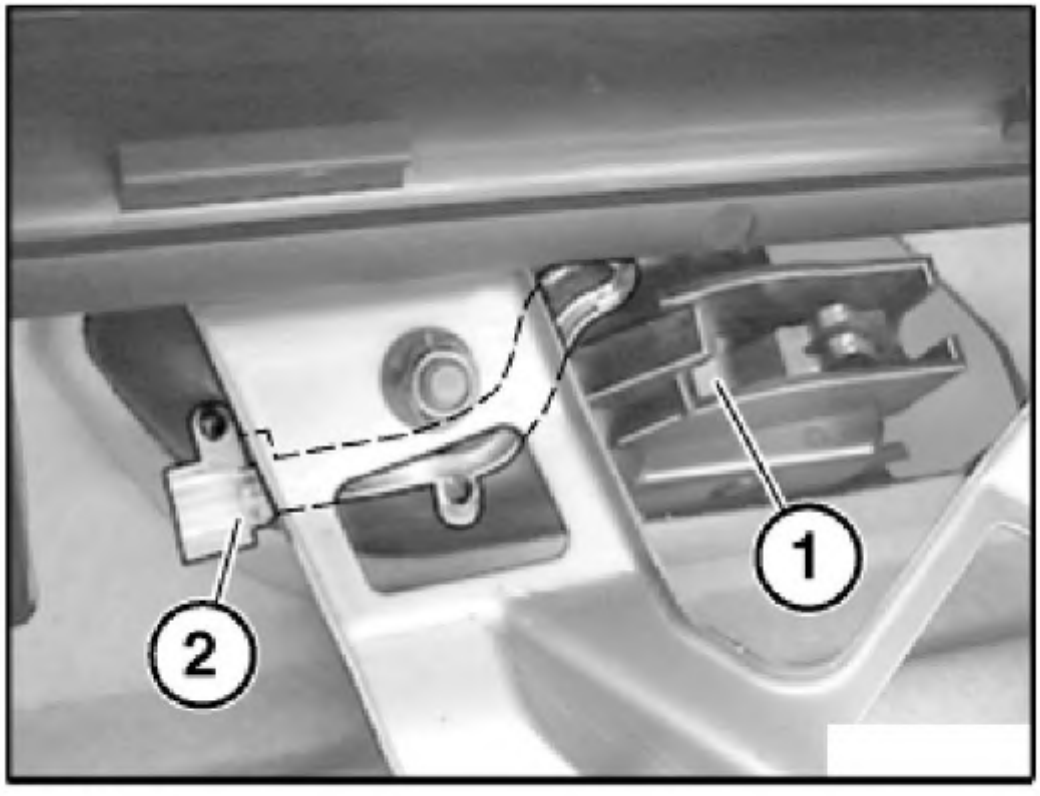
Fig. 231: Inspecting Screw On Lock Actuator
Courtesy of BMW OF NORTH AMERICA, INC.

51 22 225 REMOVING AND INSTALLING/REPLACING INSIDE DOOR HANDLE OF REAR LEFT OR RIGHT DOOR

Remove rear door trim panel. See **51 42 000 Removing And Installing Rear Left Or Right Door Trim Panel** .

Version With Lighting For Door Handle:

CAUTION: Do not damage light guide (2) when removing door handle (1).



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Fig. 232: Removing Door Handle
Courtesy of BMW OF NORTH AMERICA, INC.

Slacken nut (1).

NOTE: Guides (3) on door handle (2) must not be damaged.
Move screw (4) slightly into guide of door handle during removal.

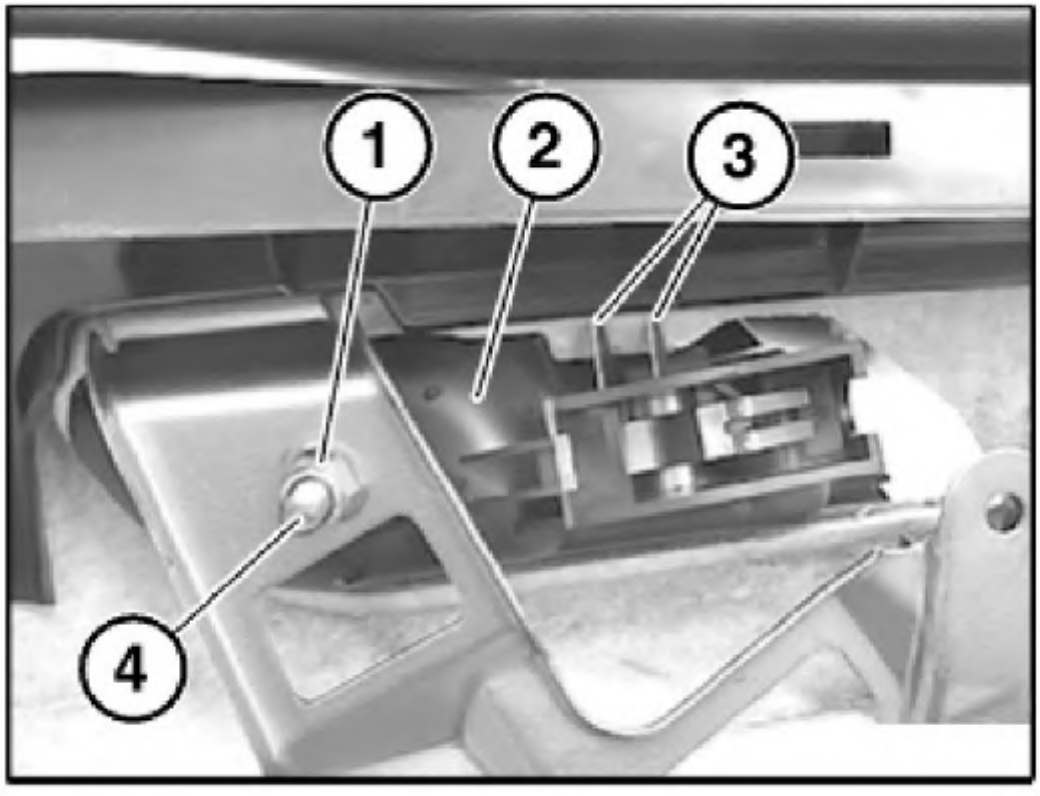


Fig. 233: Slackening Nut
Courtesy of BMW OF NORTH AMERICA, INC.

Twist inside door handle (1) inwards/upwards out of door trim panel (2).

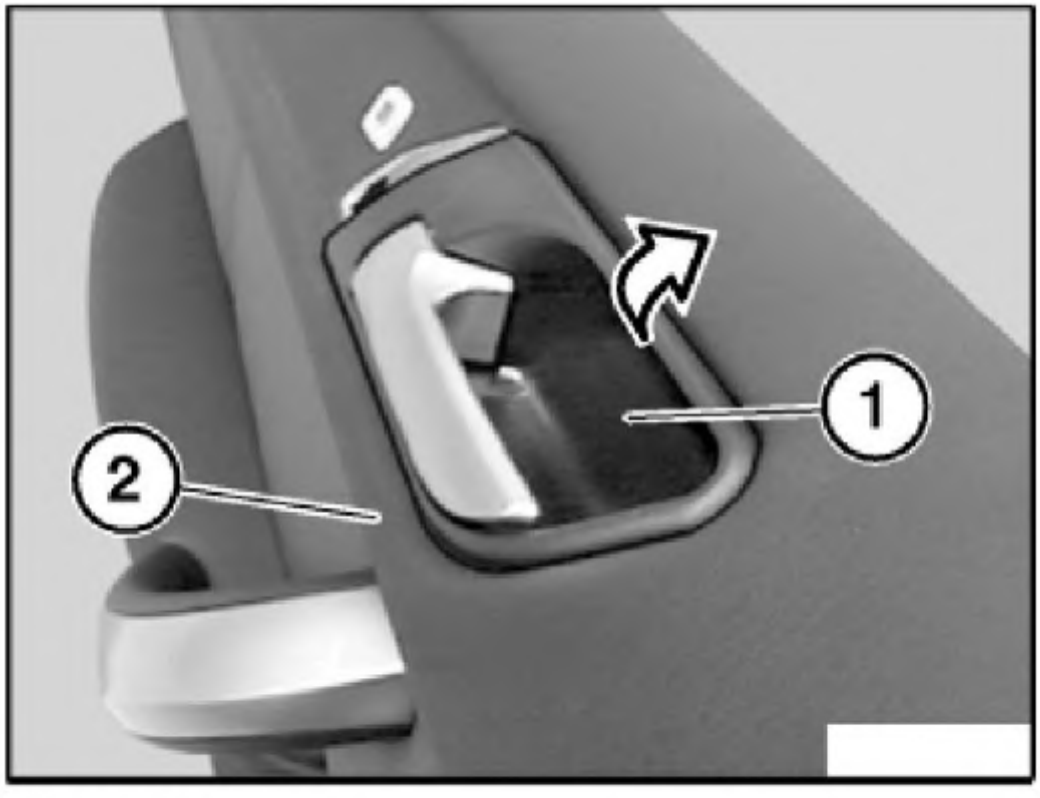
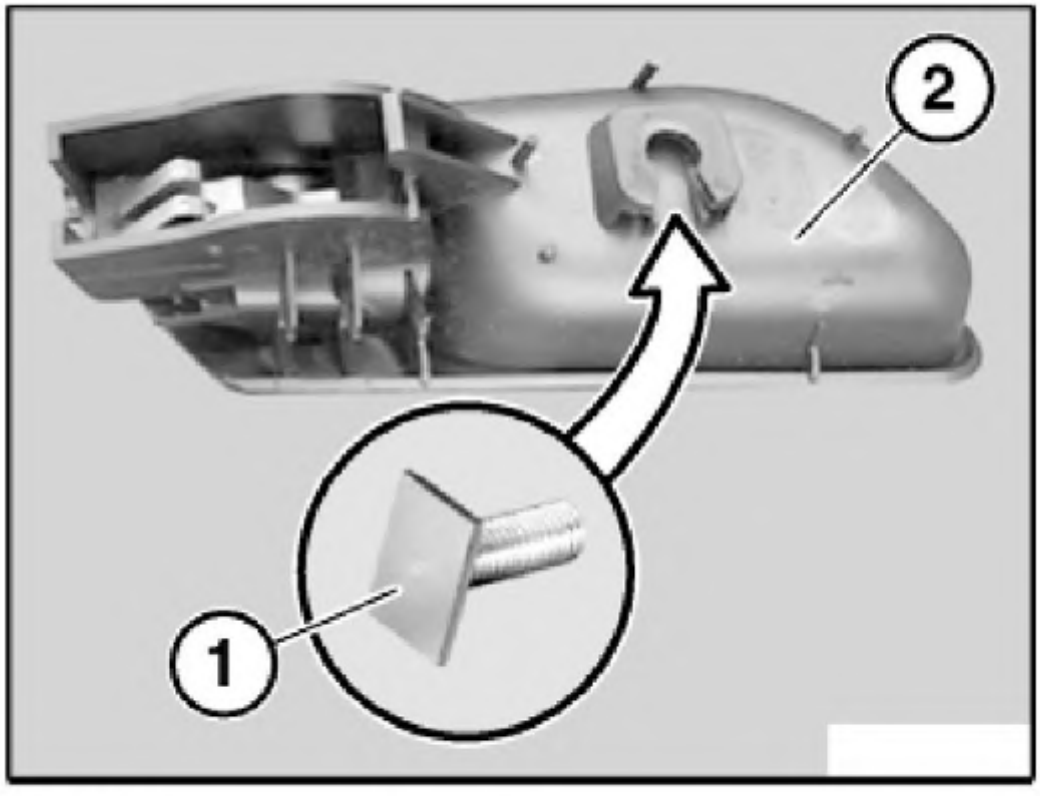


Fig. 234: Twisting Inside Door Handle Inwards/Upwards Out Of Door Trim Panel
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Mount in door handle (2) for screw (1) must not be damaged.



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Fig. 235: Installing Door Handle
Courtesy of BMW OF NORTH AMERICA, INC.

51 22 300 REMOVING AND INSTALLING/REPLACING WINDOW CAVITY COVER STRIP ON REAR DOOR ON LEFT OR RIGHT

Special Tools Required

- 00 9 311

Removal & Installation

Attach adhesive tape (1) below window cavity cover strip (2) (risk of damage).

Using special tool 00 9 311 (beginning at front proceeding to rear), lever out window cavity cover strip (1).

Installation:

Coat window cavity cover strip (1) with water before fitting.

Window cavity cover strip (1) must be flush at front and rear with door edge.

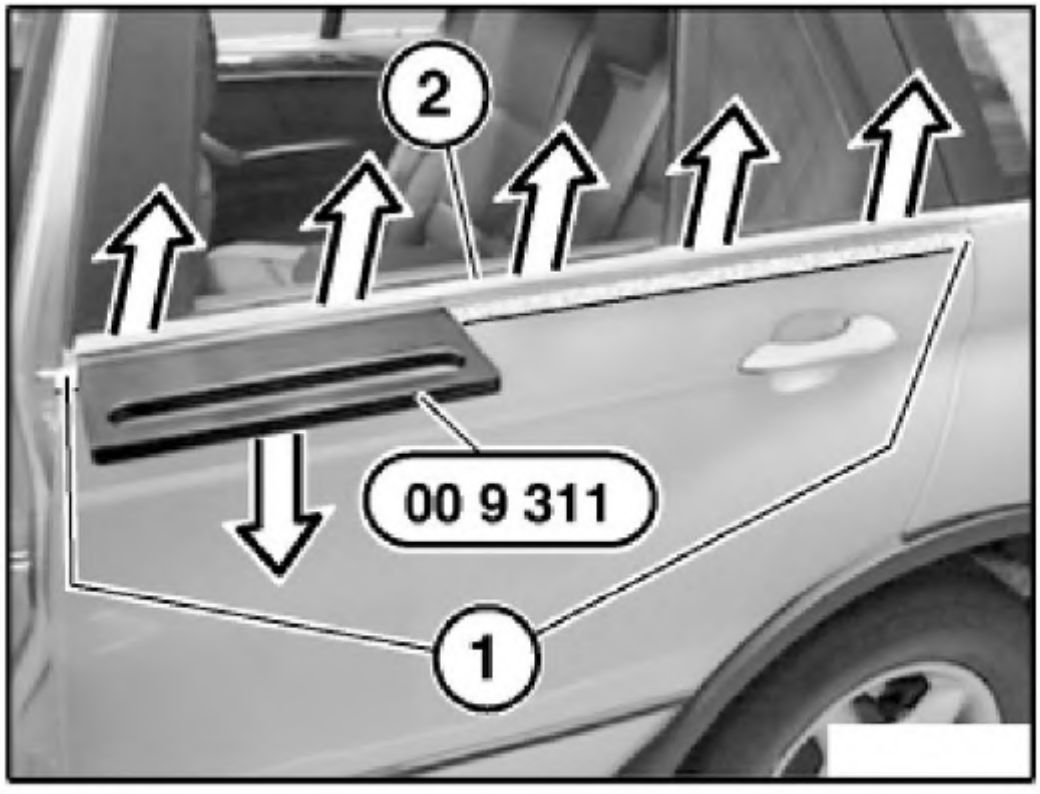


Fig. 236: Attaching Adhesive Tape Below Window Cavity Cover Strip
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Clips (1) must not be damaged.

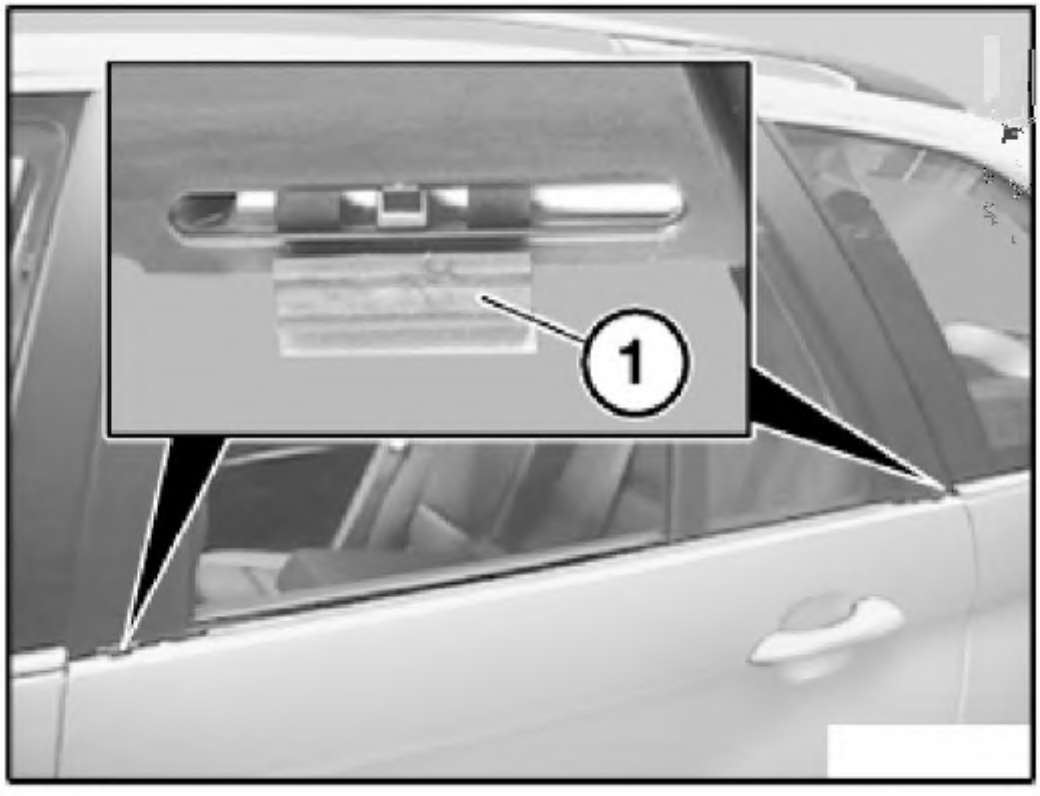


Fig. 237: Checking Clip
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Retainers (1) of window cavity cover strip (2) must not be damaged.

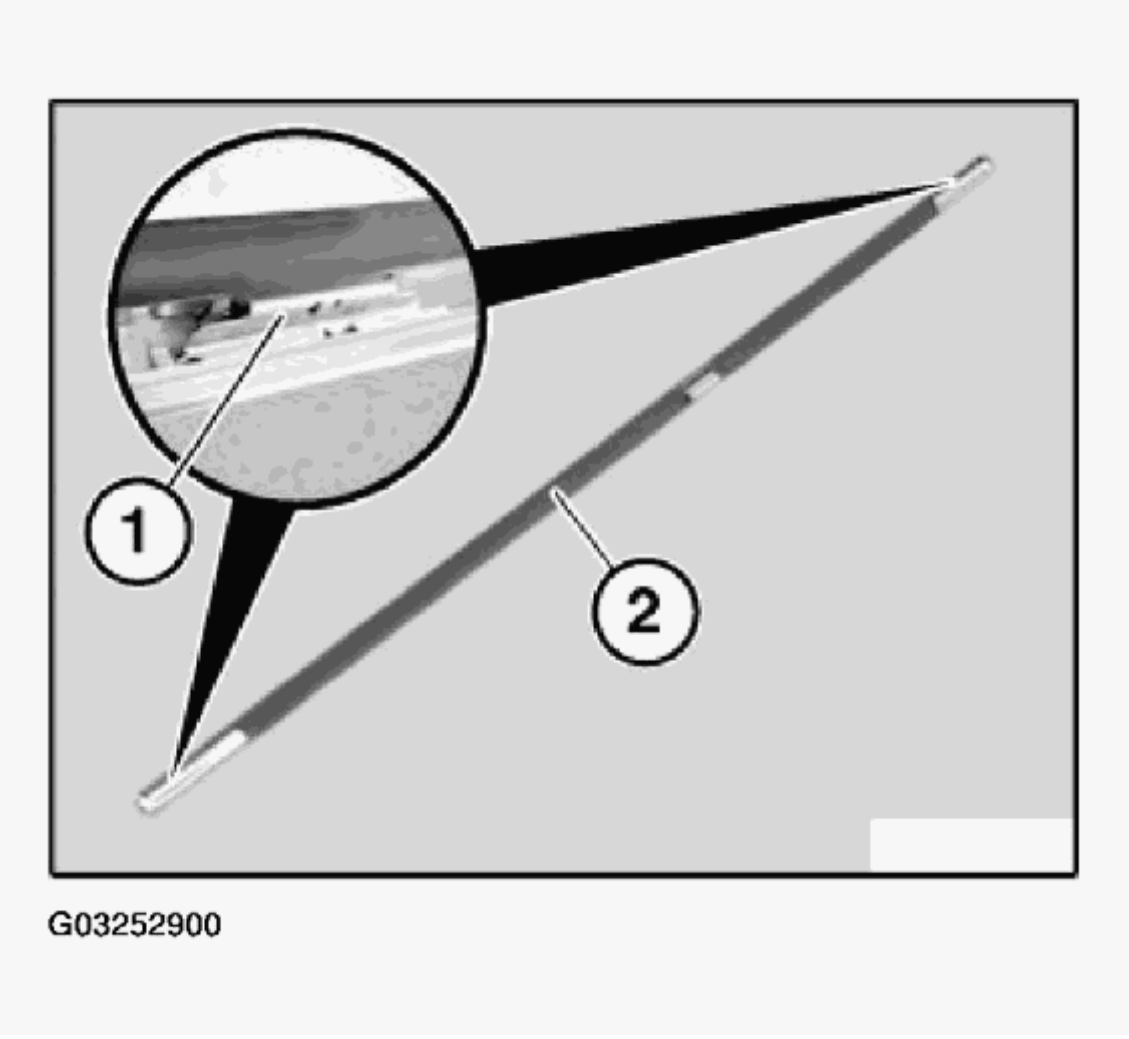


Fig. 238: Checking Retainers Of Window Cavity Cover Strip
Courtesy of BMW OF NORTH AMERICA, INC.

51 22 351 REPLACING WINDOW CAVITY SEAL ON INNER LEFT OR RIGHT REAR DOOR

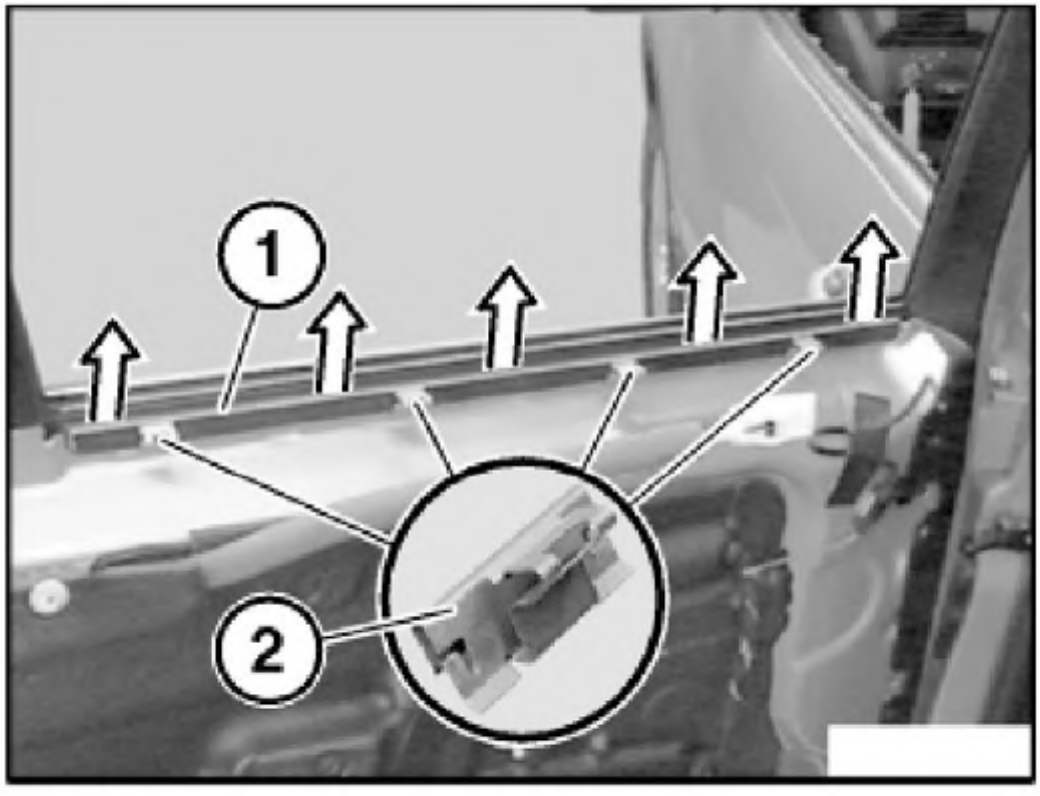
Necessary preliminary tasks:

- Remove rear door trim panel. See **51 42 000 Removing And Installing Rear Left Or Right Door Trim Panel** .

Pull window cavity seal (1) off rear door.

Installation:

If necessary, replace faulty retainer (2).



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Fig. 239: Pulling Window Cavity Seal Off Rear Door
Courtesy of BMW OF NORTH AMERICA, INC.

HOOD LATCH, LOCKS

51 23 265 REMOVING AND INSTALLING/REPLACING LEFT OR RIGHT GAS STRUT FOR ENGINE HOOD

WARNING: Risk of injury and damage!
For the following tasks, you must take the appropriate measures to support the engine hood.
As an alternative, you can enlist the help of a second person to hold the hood.

Raise hood.

Remove gas spring strut at top and bottom:

1. Push retainer spring to end of gas spring strut.
2. Remove gas spring strut from ball head.

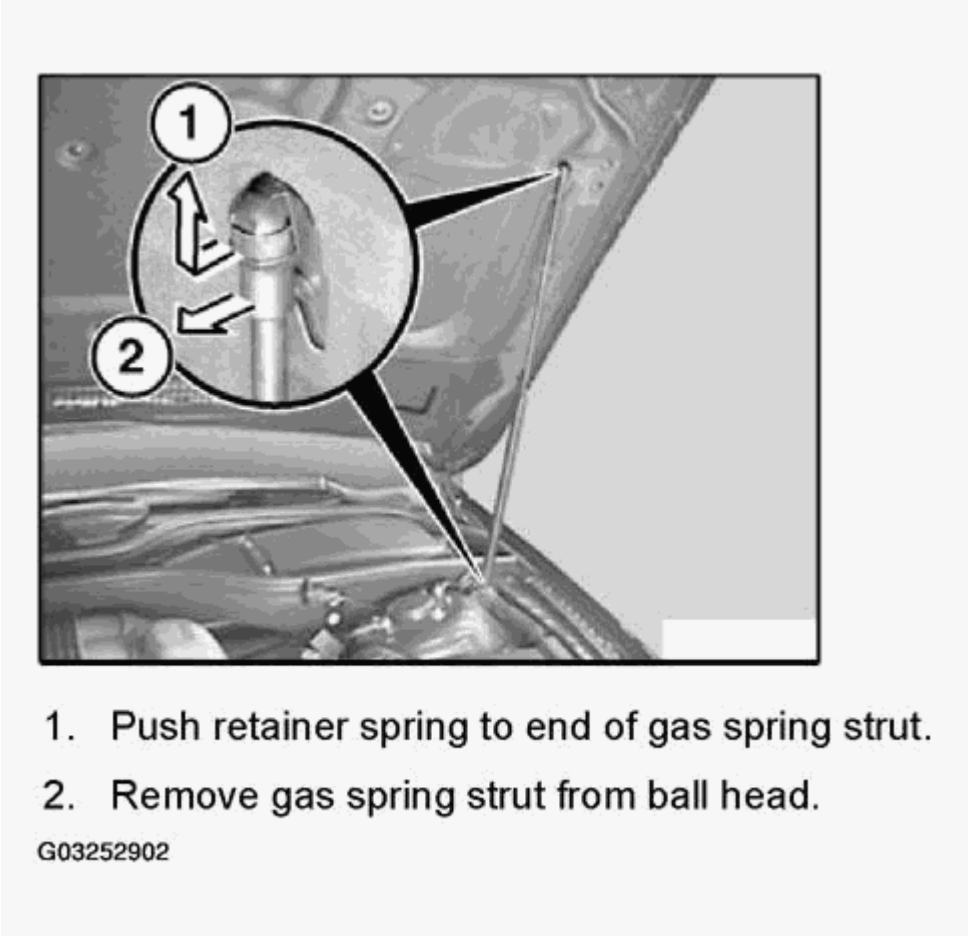


Fig. 240: Removing Gas Spring Strut From Ball Head
Courtesy of BMW OF NORTH AMERICA, INC.

TRUNK LATCH, LOCKS

51 24 ... REMOVING AND INSTALLING/REPLACING BOTTOM LEFT OR RIGHT LOCK SUPPORT FOR REAR LID

Releasing Screw Connection For Rear Lid At Bottom:

Open rear lid until screw (1) is accessible (risk of injury by spring tension).

With rear lid in this position, release screw (1) and insert in bore of support (2).

CAUTION: If the second support (2) is released for removal of the rear lid, the rear bumper must be protected against damage.

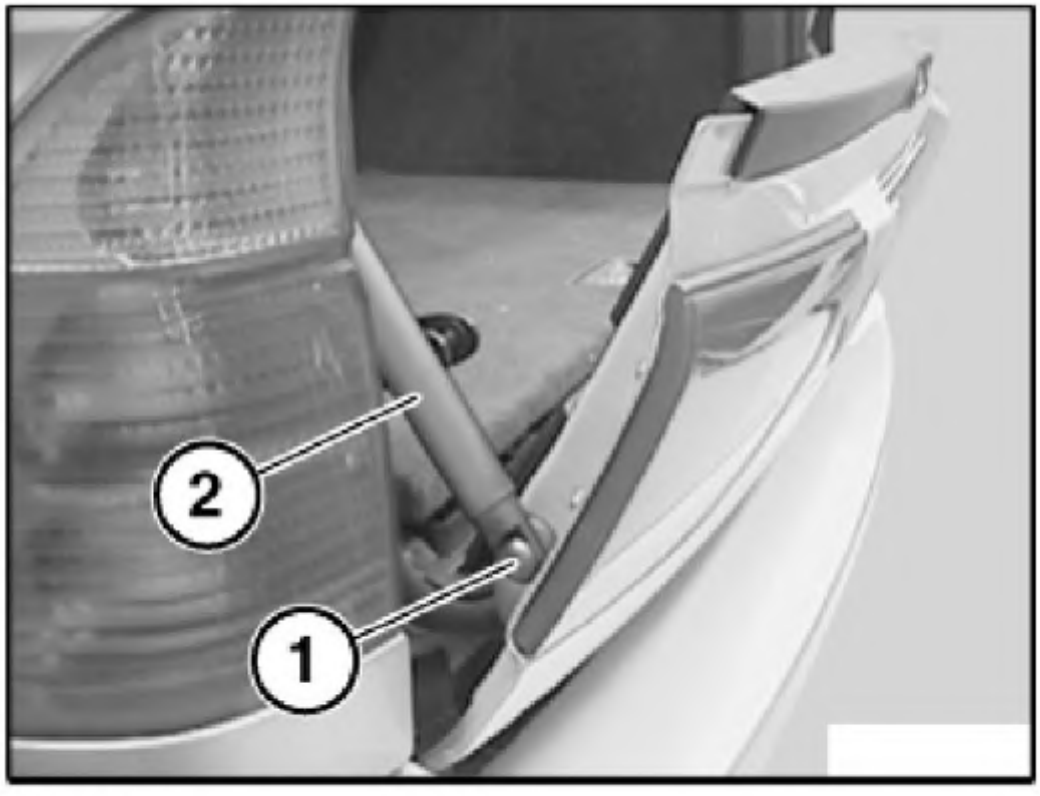
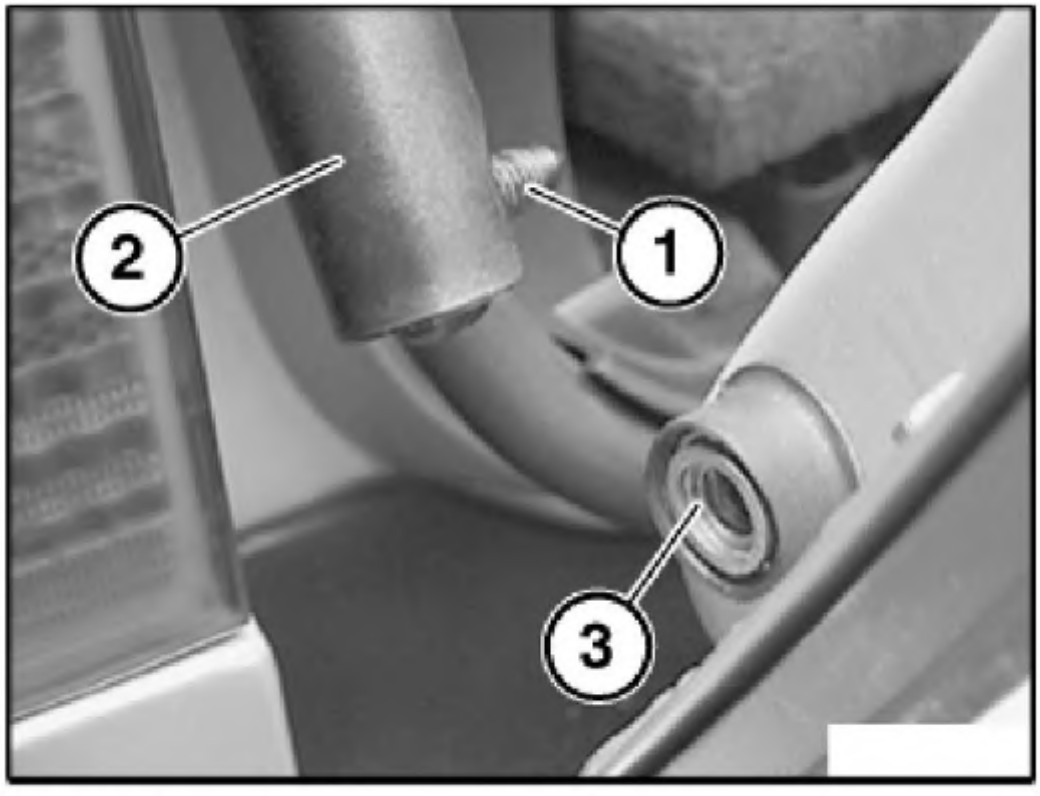


Fig. 241: Releasing Screw
Courtesy of BMW OF NORTH AMERICA, INC.

Screw (1) remains in support (2) until installation.

Installation:

Fit spacer (3).



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Fig. 242: Ensuring Screw (1) Remains In Support (2) & Fitting Spacer
Courtesy of BMW OF NORTH AMERICA, INC.

NOTE: The work step "Releasing screw connection for rear lid at bottom" ends here.

Removal And Installation Or Replacement Only:

Remove panel for roof pillar at rear.

Release screw on support at top and remove support.

51 24 110 REMOVING AND INSTALLING/REPLACING LOCK FOR REAR LID UPPER SECTION

Remove rear window wiper motor. **61 61 270 REMOVING AND INSTALLING MOUNTING BRACKET WITH WIPER MOTOR** .

Disconnect plug connection (2).

Release screws (1) and remove rear lid lock (3).

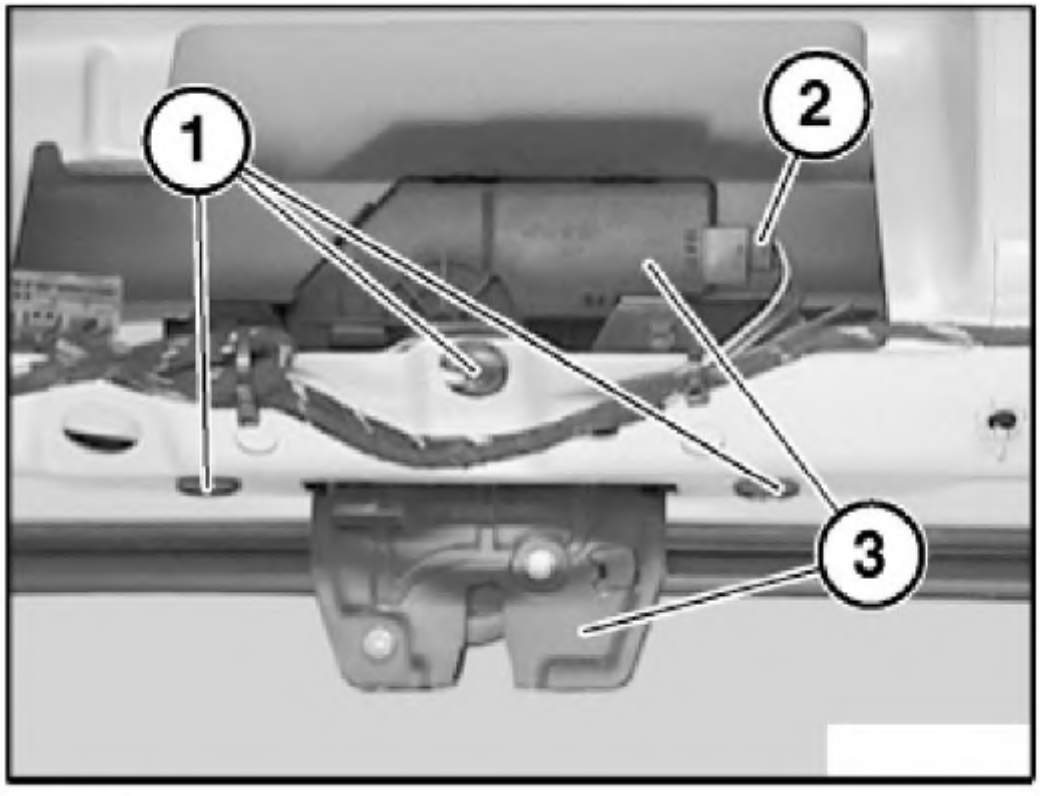
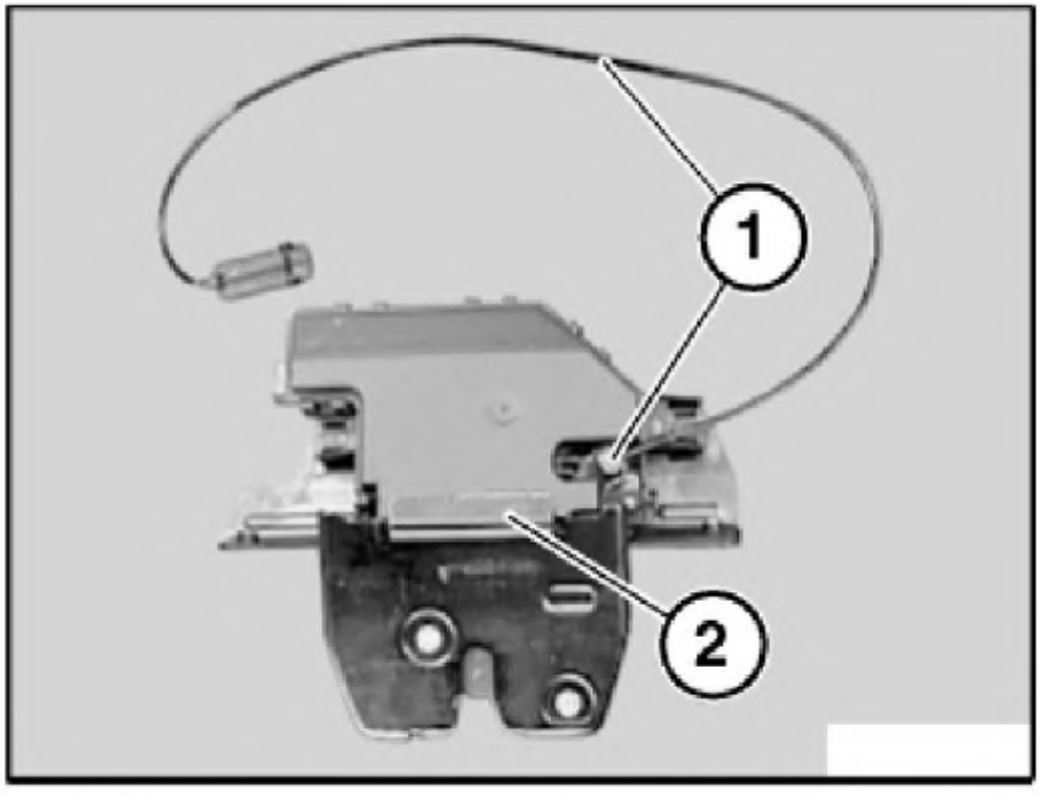


Fig. 243: Removing Rear Lid Lock
Courtesy of BMW OF NORTH AMERICA, INC.

Unclip emergency actuating mechanism (1) from rear lid lock (2).

Installation:

Adjust rear lid latch (striker) for upper section of rear lid lock.



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Fig. 244: Uncliping Emergency Actuating Mechanism From Rear Lid Lock
Courtesy of BMW OF NORTH AMERICA, INC.

CAUTION: Closing bracket and rear lid lock must not be greased.

51 24 115 REMOVING AND INSTALLING/REPLACING STRIKER FOR REAR LID UPPER SECTION

Remove trim for rear lid lower section. See **51 49 090 Removing And Installing/Replacing Trim For Rear Lid Lower Section** .

Release screws (1) and remove striker (2).

Installation:

Adjust rear lid latch (striker) for upper section of rear lid lock.

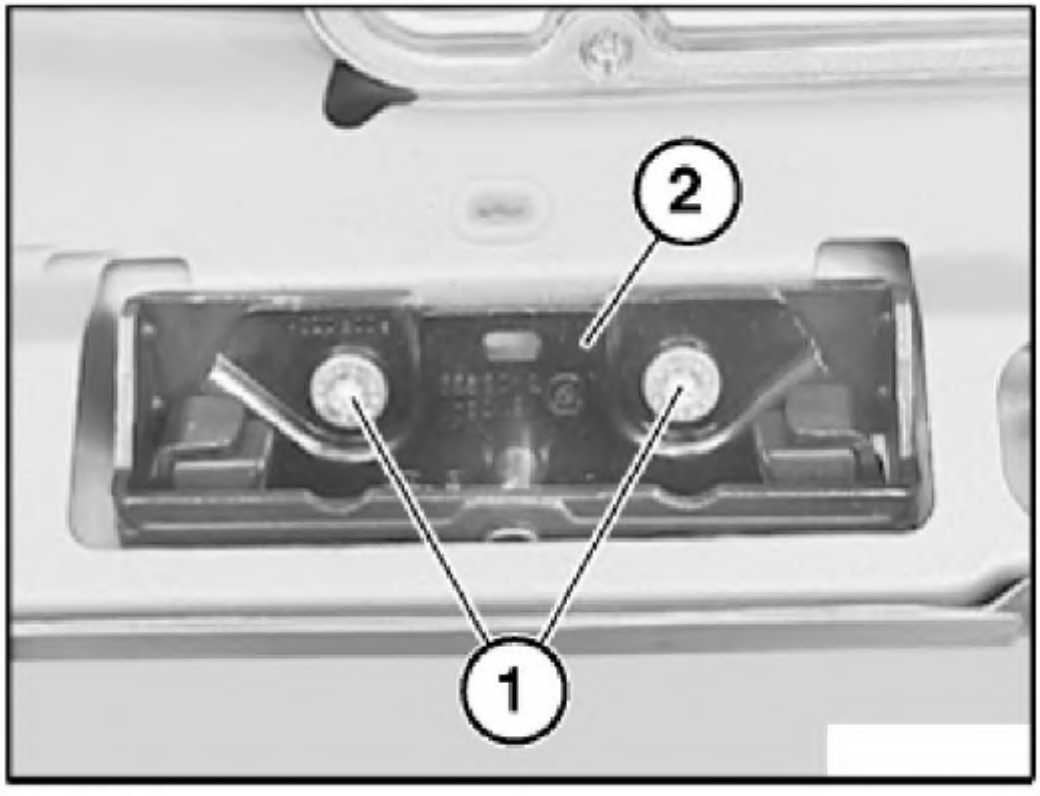


Fig. 245: Releasing Screws And Removing Striker
Courtesy of BMW OF NORTH AMERICA, INC.

CAUTION: Closing bracket and rear lid lock must not be greased.

51 24 120 REMOVING AND INSTALLING/REPLACING LEFT OR RIGHT LOCK FOR REAR LID LOWER SECTION

Remove trim for rear lid lower section. See **51 49 090 Removing And Installing/Replacing Trim For Rear Lid Lower Section** .

Release screws (1) on drive (2).

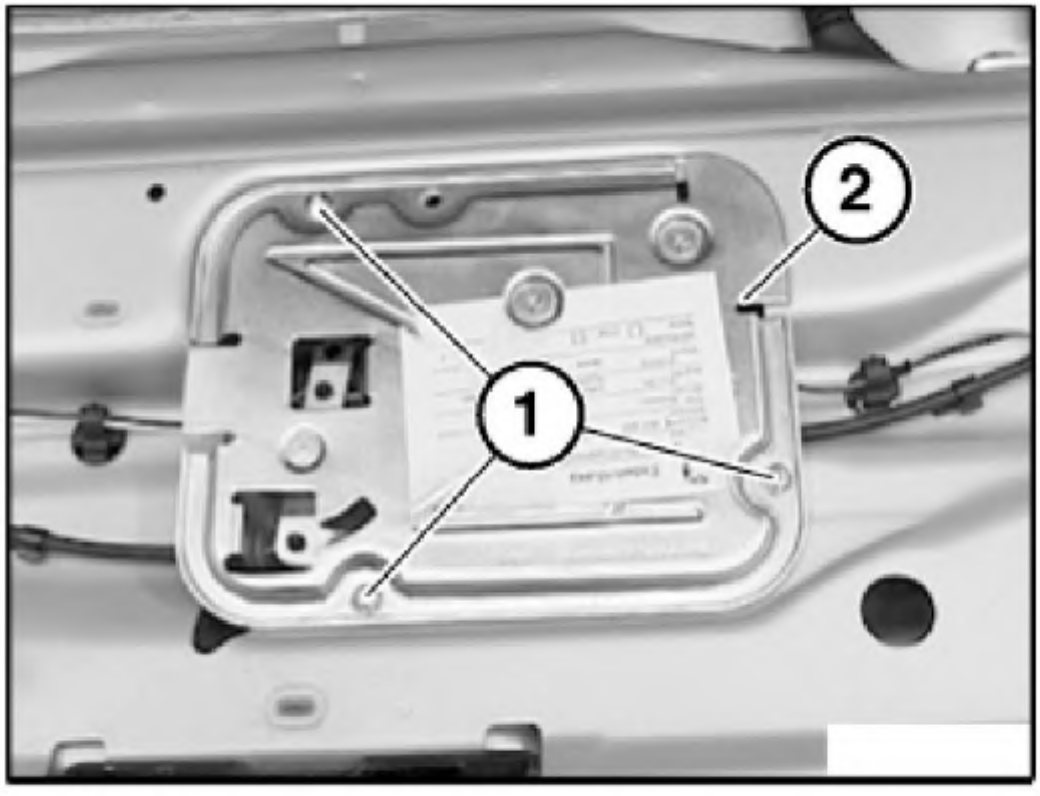


Fig. 246: Removing Screws On Drive (2)
Courtesy of BMW OF NORTH AMERICA, INC.

Unfasten plug connection (1).

Lever out Bowden cable (2) from right lock and (3) from left lock and remove drive (4).

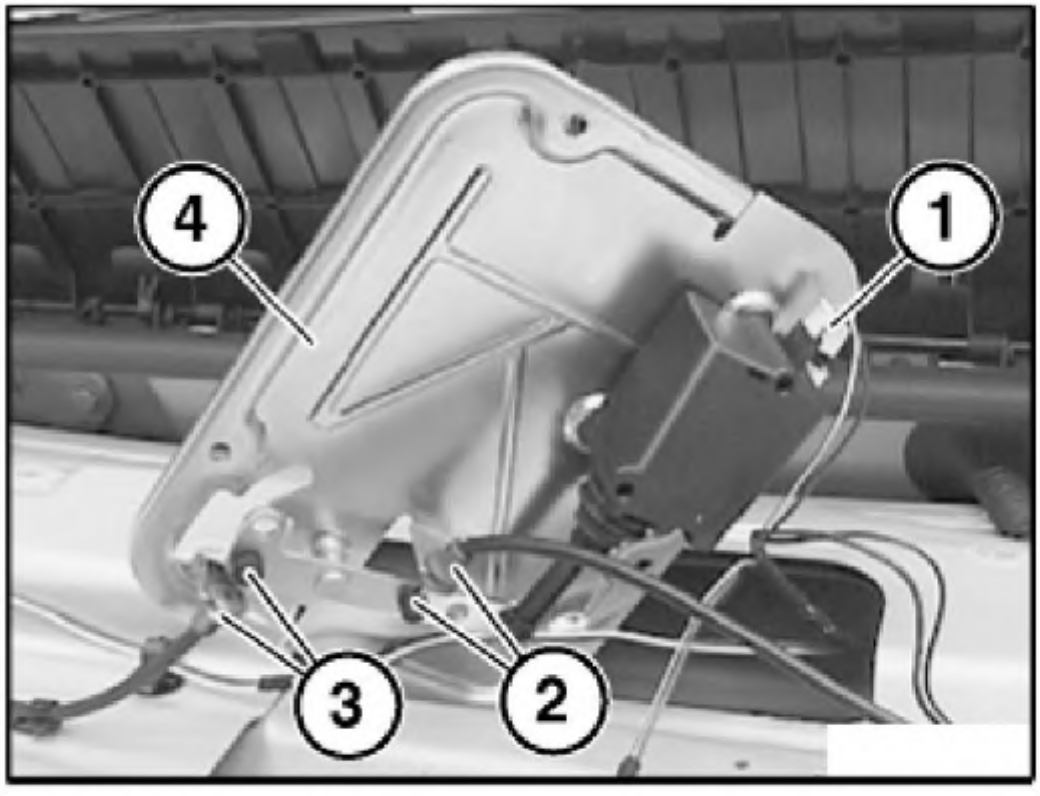


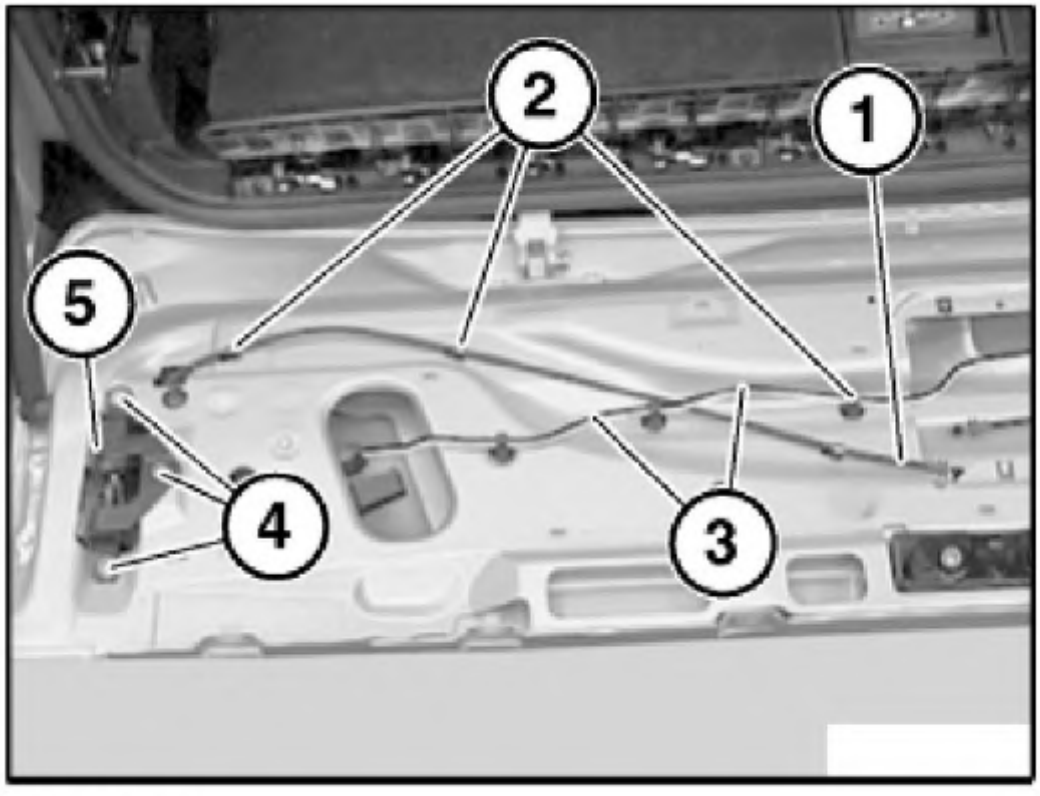
Fig. 247: Removing Drive (4)
Courtesy of BMW OF NORTH AMERICA, INC.

Unclip Bowden cable (1) from holders (2).

Release screws (4) and remove left or right lock (5).

Installation:

Lay Bowden cable (1) under cable (3).

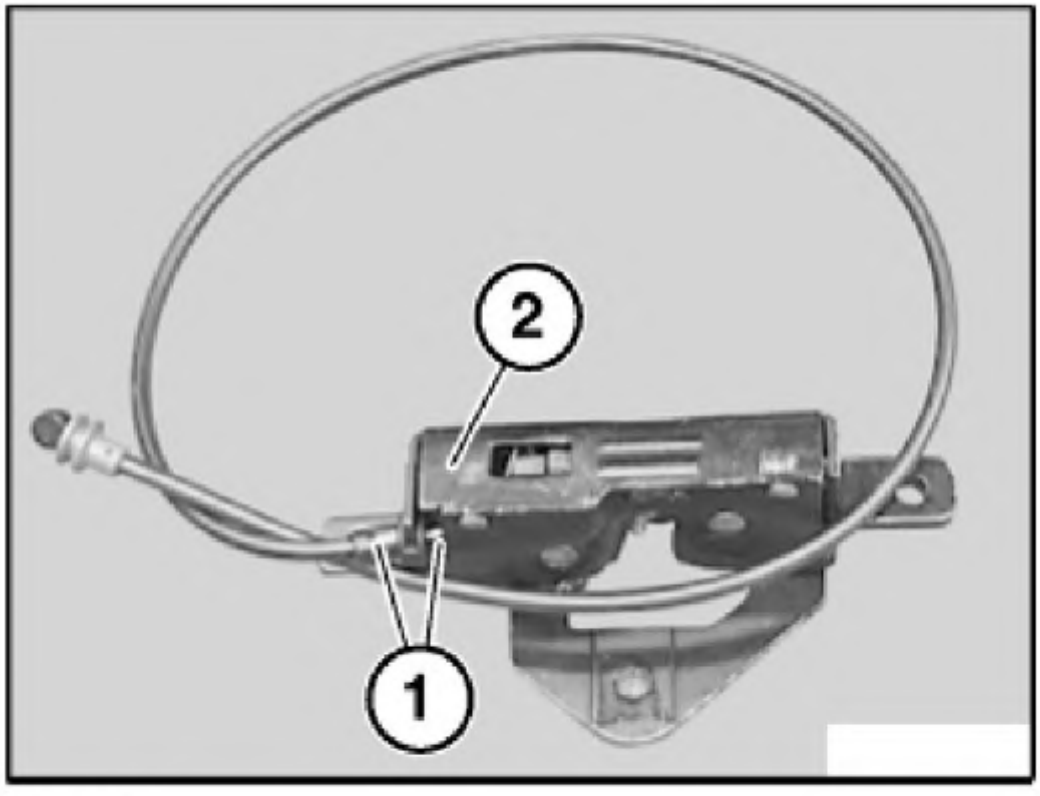


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Fig. 248: Uncliping Bowden Cable From Holders (2)
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Bowden cable (1) must engage correctly in lock (2).



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Fig. 249: Engaging Bowden Cable (1) In Lock (2)
Courtesy of BMW OF NORTH AMERICA, INC.

51 24 126 REMOVING AND INSTALLING/REPLACING LEFT OR RIGHT STRIKER FOR REAR LID LOWER SECTION

Open trunk lid.

Unlock trim (1) towards front and remove toward inside.

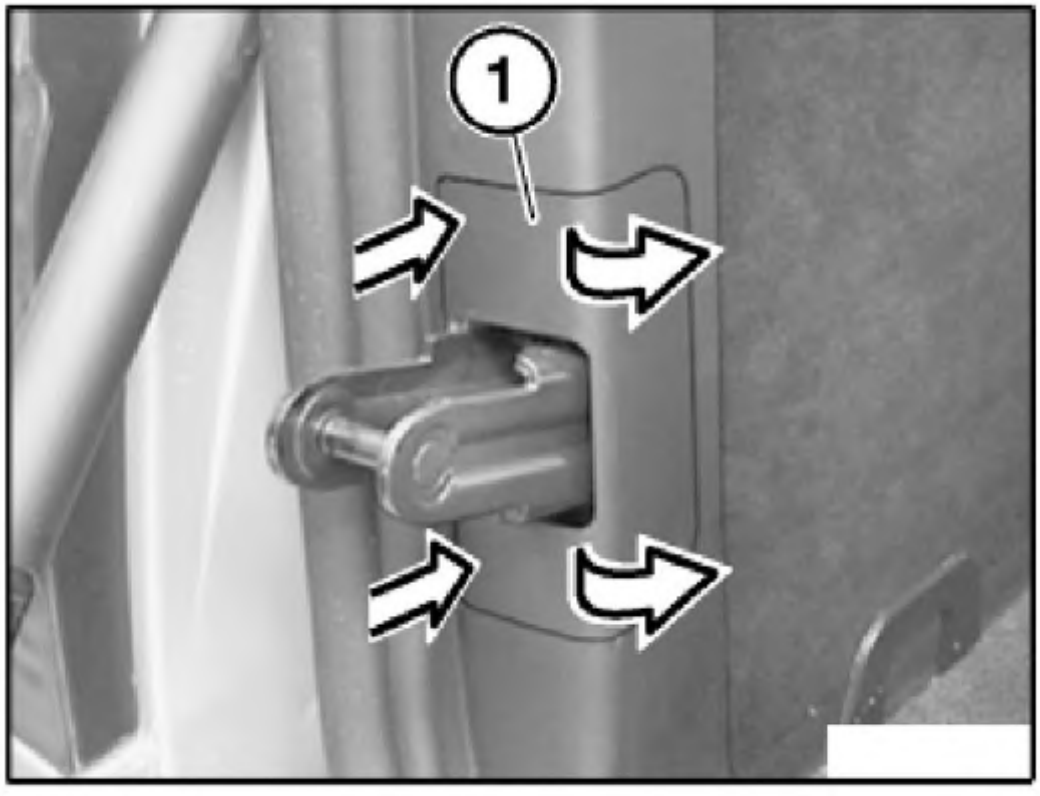


Fig. 250: Unlocking Trim Towards Front
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Guides (1) and catches (2) of trim (3) must not be damaged.

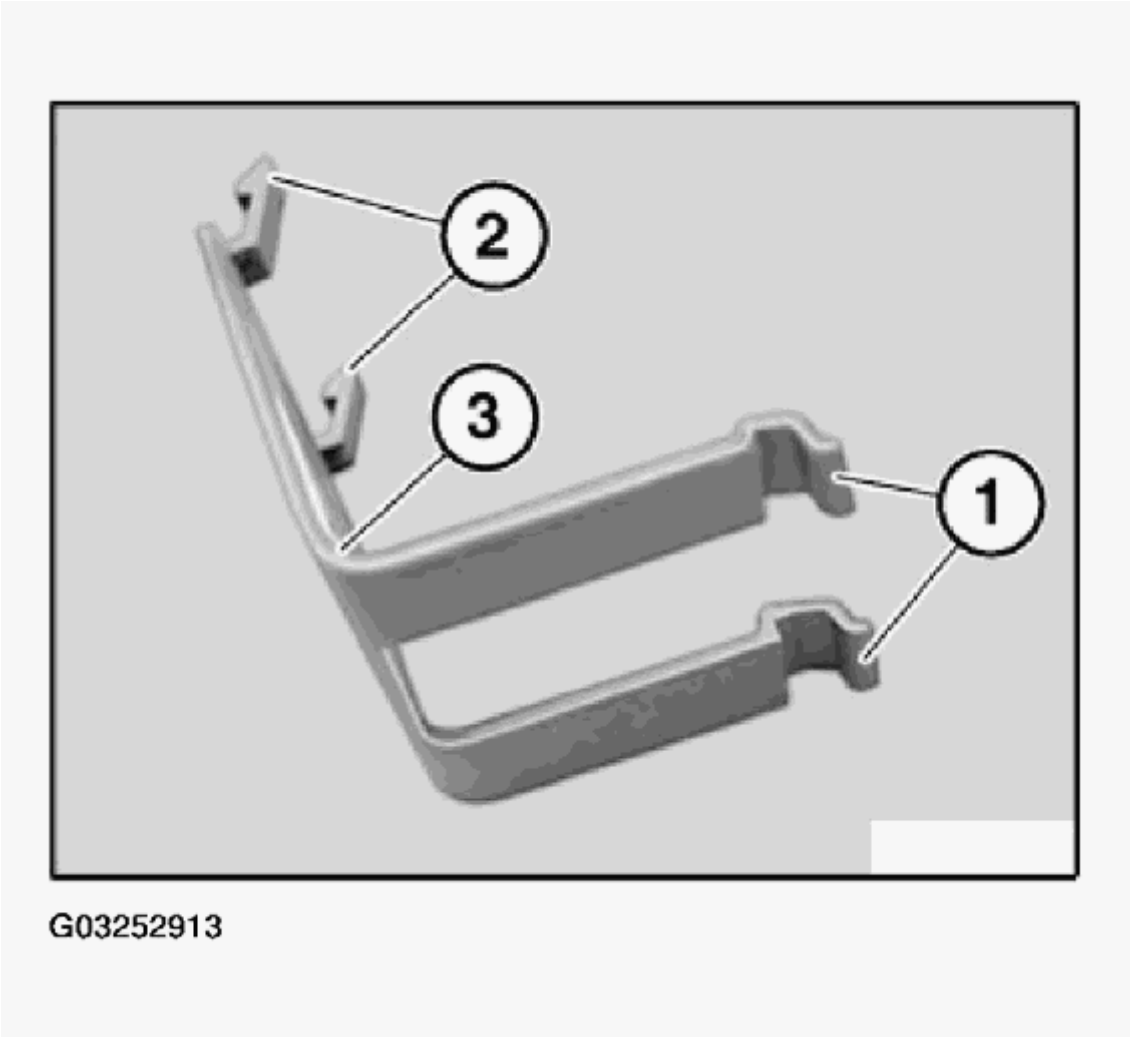


Fig. 251: Checking Guides And Catches Of Trim
Courtesy of BMW OF NORTH AMERICA, INC.

Release screws (1) and remove striker (2).

Installation:

Adjust rear lid latch (striker) for lower section of rear lid lock.

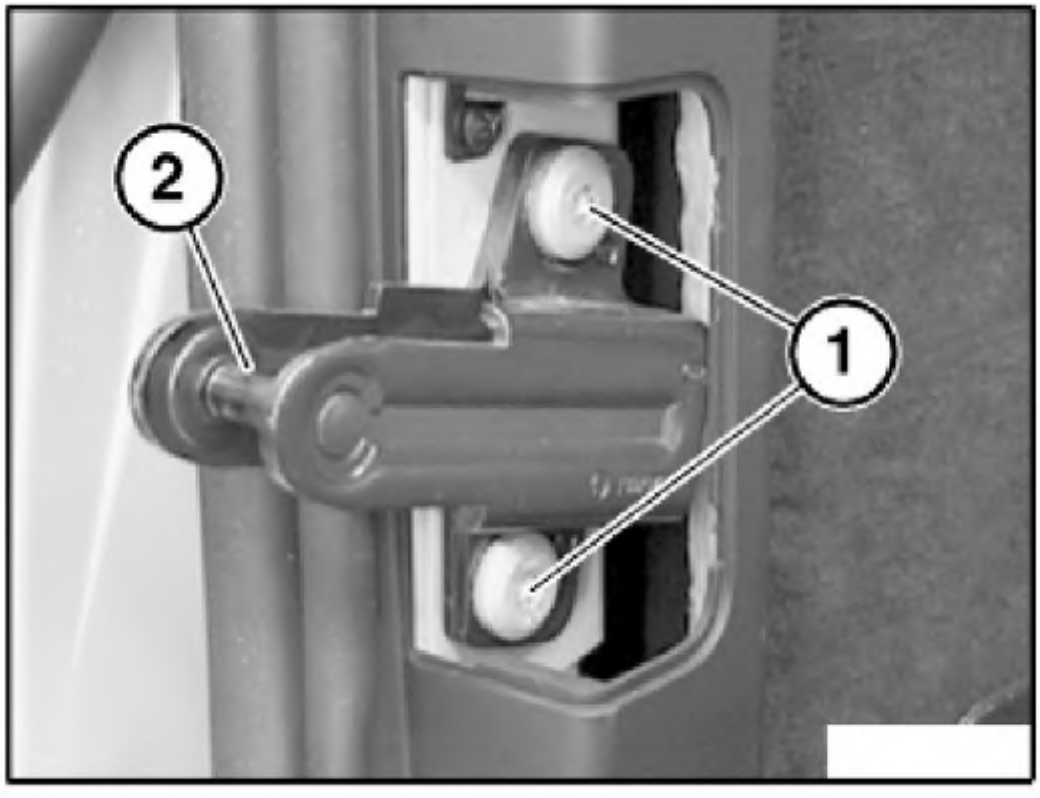


Fig. 252: Releasing Screws And Removing Striker
Courtesy of BMW OF NORTH AMERICA, INC.

CAUTION: Closing bracket and rear lid lock must not be greased.

FRONT AND REAR WINDOW

51 31 ... INSTRUCTIONS ON GLUING WINDSCREEN

IMPORTANT: The following topics were included or amended in March 2005:

Storage temperature of all adhesive products of 5°C to 25°C must be observed.

Special instructions for hot processing must be observed:

- Temperature of cartridge oven must be checked every morning with DIS or GT1

- Temperature of cartridge < 80°C results in the formation of bubbles/blisters (gluing/cementing not permitted)
- Insufficient heating (< 1 hour) results in the formation of bubbles/blisters (gluing/cementing not permitted)
- Heating time or a cartridge max. 8 hours
- Mistake in mixing in event of an interruption in application >1 minute (gluing/cementing not permitted)
- A test bead of 50...70 mm must be rejected after an interruption in application
- Cartridge may only be heated up once; if the lower label is black, this adhesive may only still be used cold without accelerator while adhering to the best before date.

General:

The windscreen and rear window (also the rear side windows if necessary) are bonded to the body. This gluing will increase the torsional strength of the vehicle. To obtain perfect bonding, comply with the installation procedure described in the following.

It is possible to tow or drive without windscreen or rear window.

The windscreen must be secured with yellow plastic adhesive tape (sourcing reference: BMW Parts Service) after being installed. The paint must be completely hardened after painting work.

- Set down window glass and process on BMW-approved X-universal stand.
- In winter, the vehicles must stand in a room with a temperature of at least 15 °C.

On-The-Job Safety:

When working with adhesive products (adhesive, cleaning agent, bonding agent etc.):

- Wear protective goggles, protective gloves and if necessary an apron.
- Ensure rooms are well ventilated.
- Change work clothing contaminated with adhesive immediately.
- Change work clothing contaminated with solvents and swelling agents immediately (keep spare work clothing on hand).
- Take skin protection measures, provide washing facilities including hot water, use silicone-free skin creams
- Provide eye bath facilities, change water regularly (once a month).
- Comply with the relevant safety regulations
- Do not eat, drink or smoke in areas of PUR processing.

Replacement Of Windscreens:

Version with head-up display (HUD):

- Marking for HUD must be present on the windscreen

Version with front passenger airbag:

- Stick on reminder label

Tools For Cutting Through Adhesive Bead:

TOOLS FOR CUTTING THROUGH ADHESIVE BEAD

Type	Model	Order/part number
Special cutter (manufacturer: Fein) with oscillating blade	Pneumatically operated Electrically operated	81 43 9 429 183 81 43 9 427 786
BMW blade set	All required blades	81 43 9 428 596
Blade (U-shape)	19.5 mm (1) 24 mm 36 mm 45 mm	6 39 03 118 01 3 6 39 03 076 01 6 6 39 03 079 01 2 6 39 03 154 01 0
Blade (straight with stop roller)	16 to 35 mm (adjustable) 10 mm (fixed) (1) 14 mm (fixed)	6 39 03 143 01 3 6 39 03 189 01 0 6 39 03 082 01 6
"Roll Out 2000"	Wire cutting system (1)	81 62 0 301 76 8
Scalpel	for heavy-duty applications (1)	
Handles for cutting wire	Self-locking (1)	special tool 51 3 270
(1) not included in BMW blade set		

Storage Temperature:

Storage temperature of all adhesive products of 5°C to 25°C must be observed.

Adhesive:

The BMW-approved 1-component polyurethane adhesive must be used for bonding.

- Adhesive cartridge (part number BMW 83 19 0 152 031, MINI 83 19 0 152 032)

Adhesive is applied to window glass with cartridge gun (pneumatically or electrically operated).

When Using Accelerator (Hot Processing):

- Temperature (min. 80 +/- 5 °C) of cartridge oven must be checked every morning. Connect temperature sensor to DIS or GT1 (in conjunction with MIB (Measurement Interface Box))
- Heat adhesive for at least 1 hour in cartridge oven to 80 +/- 5 °C
  - Write date and time on adhesive when inserting into cartridge oven
  - Insufficient heating (< 1 hour) results in the formation of bubbles/blisters (gluing/cementing not permitted)

    - Temperature < 80 +/- 5 °C results in the formation of bubbles/blisters (gluing/cementing not permitted)
  - Remove cured adhesive prior to further processing.
  - Mistake in mixing in event of an interruption in application >1 minute (gluing/cementing not permitted)
    - A test bead of 50...70 mm must be rejected after an interruption in application
  - Best before dates of accelerator and adhesive must not be more than 3 months apart
    - Best before date >3 months results in the formation of bubbles/blisters (gluing/cementing not permitted)

Sealed adhesive:

- May only be stored for a maximum of 8 hours once it has been heated up to 80 +/- 5 °C.
- The adhesive will be damaged if this time is exceeded (gluing/cementing not permitted)
- Damaged adhesive must not be used and must be disposed of in compliance with national regulations
- Cartridge may only be heated up once
  - If the lower label is black, this adhesive may only still be used cold without accelerator while adhering to the best before date.

IMPORTANT: Not all window glass may be bonded with accelerator (hot processing).

If hot processing is not permitted, this is described in the relevant document.

Adhesive Best Before Date:

Repair kit and adhesive cartridges are marked with a date (best before).

The adhesive cannot be used after this date.

Adhesive Disposal:

Pure hardened adhesive is handled as normal waste.

The adhesive is disposed of in paper bags so that it can react with moisture.

Non-hardened adhesive, cartridges and mixtures of adhesive and solvents and the like must be disposed of as special waste.

Accelerator:

Accelerator is screwed onto the adhesive cartridge and contains a reaction paste which is mixed with the heated adhesive.

IMPORTANT: The accelerator may only be paired with the adhesive cartridge of an unopened package (bubbling).

Adhesive and accelerator must be paired while taking into account the Best before dates.

The accelerator may no longer be used if the Best before dates are more than 3 months apart.

Bonding Agent (Activator):

The BMW-approved bonding agents must be used to treat bonding areas:

- "Glass Activator 1" (on glass ceramic material)
- "Paint Activator A" (on sheet metal flange or residual adhesive bead)

Bonding Agent Best Before Date:

Repair kit and bonding agent are marked with a date (Best before).

- The bonding agent may only be used up to this date (if not already opened previously).
- Once it has been opened (locking ring broken), use for 1 week only even if the Best before date has not been reached.

NOTE: Write the date on the bottle when opening the bonding agent for the first time. Close the bottle immediately after extracting the bonding agent (reaction with air).

Removal Of Window Glass:

IMPORTANT: As of E63 and E87 it will only be possible to remove the rear window with the "Roll Out 2000".

Cover side panels, roof antenna and if necessary interior trim with protective covers.

Tape off body with fabric adhesive tape (e.g. Tesa) in areas where the oscillating blade could damage the window glass or the paint.

When using cutting wire, pull cutting wire ends through special tool 51 3 270, bend and tape off with fabric adhesive tape (e.g. Tesa) (risk of injury and damage).

When removing the windscreen:

- Wear protective goggles and gloves.

Cut through adhesive bead of window glass:

- with "Roll Out 2000" (wire cutting system); no paint is damaged here in the case of narrow gaps
- with special cutter and oscillating blade

Prior to each use, regrind the blade with a grinding stone while the machine is running (new blades also).

Avoid damage to paintwork on body cutout.

Guide blade carefully between body and window glass.

Run blade of knife parallel to glass.

Cut through adhesive bead as closely as possible to window glass.

To remove adhesive bead in body cutout (and on window glass if reusing):

- Use a scalpel for heavy-duty applications
- Cut off residual adhesive to a thickness of approx. 0.5 mm
- Remove residual bead only briefly before bonding

Damage To Paintwork In Body Aperture:

To ensure long-term corrosion protection, it is absolutely essential to touch up damage to paintwork!

Preparation For Assembly:

Prepare plastic nozzle(s) for shaping adhesive bead (when not using the standard nozzle), can be cut to size during the air drying time.

Lay a test bead of approx. 50 mm - watch out for formation of bubbles/blisters when hot cementing; if OK, apply immediately to window glass.

- Interruption must be < 5 second (incorrect mixture ratio).

Cartridge must be vertical to window glass.

Black ceramic material impermeable to UV light is located on the peripheral zone of the inside edge of the window to protect the adhesive bead.

Glass ceramic material must not be damaged and must be treated as follows.

Adhesive Quantities:

Approx. 1 1/4 adhesive cartridges are needed to cement 7 Series windscreens.

In the case of hot cementing (with accelerator), the missing residual bead is applied from a second adhesive cartridge (not contained in the repair kit) but while cold and without accelerator (bubbling).

Minimum hardening period is thus not increased.

IMPORTANT: If a second cartridge is required for cementing:

- First apply cold adhesive to cowl panel at bottom (skin formation time)
- Accelerator from repair kit must not be used with the second cartridge (bubbling)

Bubbling results in leakage and insufficient bonding strength (torsional rigidity, passenger airbag).

Effect Of Differing Adhesive Quantities:

ADHESIVE EFFECT

Too little adhesive:	Too much adhesive:
○ Windscreen rests too low in body cutout ○ Strains/tensions may occur (windscreen breakage) ○ Insufficient squeezing of adhesive bead (leaking)	○ Windscreen rests too high in body cutout ○ Wind noise may occur ○ Strains/tensions may occur (windscreen breakage) ○ Fouling of add-on parts by emerging adhesive ○ Adhesive on uninsulated strainer pressure lines of antenna(s) (interference of reception)

Spacer Buffers:

Before sticking on new spacer buffers, remove all remaining traces of old spacer buffers completely.

Position of spacer buffers must be observed exactly.

Incorrectly fitted spacer buffers will result in:

- Windscreen glass breakage
- Leakage (if the spacer buffer is in the adhesive area)
- Wind noises

Assembly:

To prevent a pressure increase in the vehicle interior when the doors are closed:

- Open a window

IMPORTANT: After the adhesive bead has been applied, the window glass must be fitted within 5 to 10 minutes (depending on air humidity, temperature and use of accelerator).

After 5 to 10 minutes the adhesive bead forms a skin which can no longer guarantee a perfect bond.

To secure the windscreen, use only the yellow plastic adhesive tape (sourcing reference: BMW Parts Service, part number 83 19 9 410 979).

The glass will slip down if other adhesive tapes are used.

Windscreen slippage will result in leaks and wind noises.

Remove adhesive residue immediately with adhesive remover (Sika remover 208, sourcing reference: BMW Parts Service). Do not press out the window glass again.

Hardened adhesive can only be removed by machine.

Check height of windscreen/rear window with special tool 51 0 010 or 51 3 210.

Assemble car.

Hardening:

The adhesive hardens as it reacts with air humidity (with accelerator also due to mixed-in reaction paste) at room temperature.

Minimum hardening time (table) is obtained from 22 °C and 38 % relative air humidity.

At ambient temperatures above 23 °C and 50 % relative air humidity (hot countries), the adhesive open time is shortened to approx. 5 minutes (skin formation time).

The adhesive hardening process is interrupted completely at ambient temperatures below 5 °C. In this event, there will be no increase in the strength of the adhesive bond.

Do not subject the vehicle to load on one side during the minimum hardening time

- one wheel on curb
- lifting platform
- etc.

Maneuvering inside garage/workshop:

- only permitted on level ground
- do not under any circumstance driver over access ramps, e.g. into multi-store car parks

Remove adhesive tapes after hardening time.

If you fail to adhere to the minimum hardening times

- leaks and wind noises will occur when the windscreen is moved

Glues And Their Minimum Hardening Times:

GLUES AND THEIR MINIMUM HARDENING TIMES

Glue	Minimum hardening time "without passenger airbag" (after which vehicle can be moved)	Minimum hardening time "with passenger airbag" (countries where seatbelt use is not required by law)
Hot processing with accelerator	2 hours	3 hours (1)
Cold processing	9 hours	20 hours

(1) *Note* **Vehicles with passenger airbag:** The vehicle can be handed over to the customer after the hardening period (vehicle can be moved, adhesive-dependent) with the following warning: **Once the windscreen glass has been bonded, all occupants must travel with their seatbelts attached for "... hours"!** The time is taken from the "Minimum hardening period" table for countries where seatbelt use is not required by law.

IMPORTANT: If the minimum hardening time is not adhered to:

- the front passenger together with the windscreen may fall out of the vehicle in the event of an accident after the front passenger airbag has been triggered

Locate Leaks:

- by spraying water underneath sealing lips
- with ultrasonic leak detector (sourcing reference: BMW Parts Service)

If necessary, seal leakage with appropriate nozzle.

Version With Rain Sensor Or Rain/Light Sensor:

Removing rain sensor or rain/light sensor, refer to **51 16 060 Removing And Installing Or Replacing Interior Rearview Mirror** .

After replacing windscreen:

- Initialize rain sensor or rain/light sensor

Version With Head-Up Display (HUD):

Before bonding, install windscreen with seal(s) and check HUD; if necessary, press expanding foam tape down with hand roller.

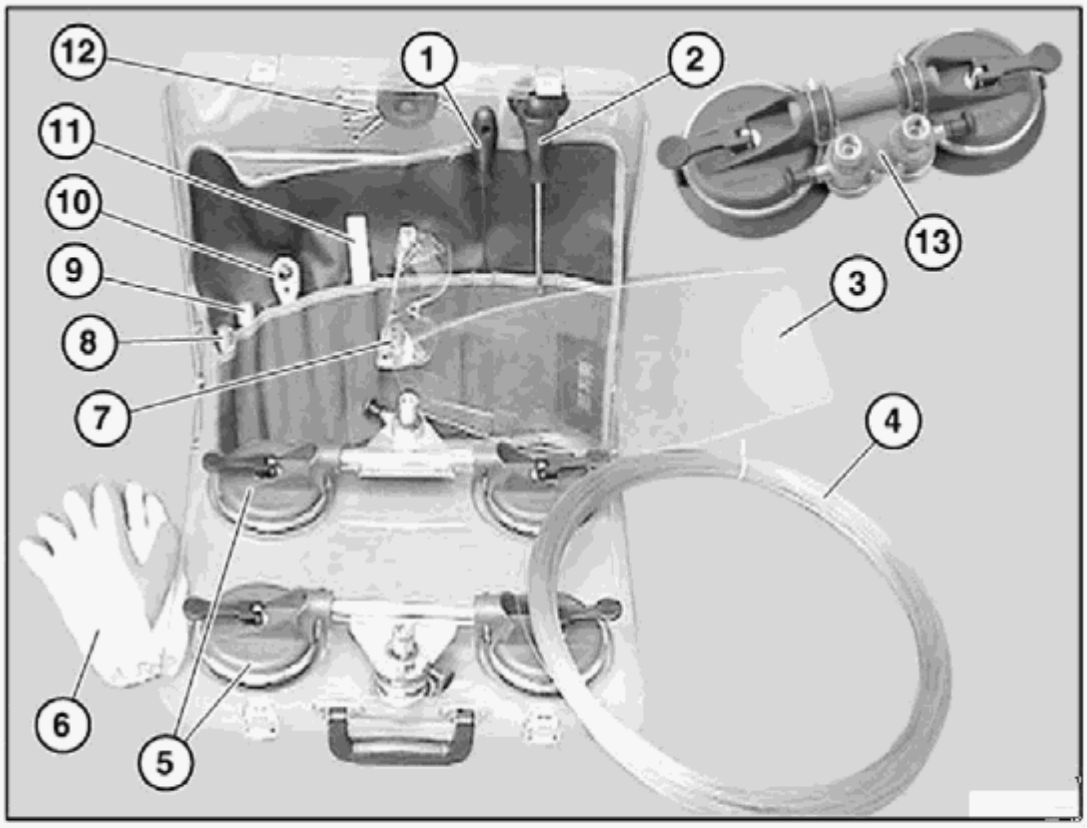
After bonding windscreen, check and if necessary adjust HUD.

51 31 ... REMOVING WINDSCREEN WITH "ROLL OUT 2000"

Special Tools Required

- 51 3 270

Windscreen Removal System "Roll Out 2000"



1	Wire starter	8	Extension (short)
2	Parabolic tool	9	Extension (long)
3	Plastic washer	10	Reversible ratchet
4	Wire cutting roller	11	Plastic wedge
5	Windlasses	12	Guide needles
6	Protective gloves	13	Windlass with double coil
7	Protective goggles		

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Fig. 253: Identifying Special Tools
Courtesy of BMW OF NORTH AMERICA, INC.

NOTE: Using the "Roll Out 2000" system (BMW Workshop Equipment and Planning Documentation) minimizes paintwork and ergonomic damage as well as damage that is hazardous to health.

WARNING: Follow safety instructions for working on cars with airbag systems (risk of injury).

IMPORTANT: Take care when handling sharp-edged tools and cutting wire (risk of damage to head airbag).

IMPORTANT: Always keep both suckers dry and clean to ensure their optimum adhesion on the windscreen.

Lubricate coil if interlock rattling becomes too loud.

Always wear protective goggles and gloves for your own safety.

Preparatory Work:

- To avoid paintwork damage, tape off working area over large area at outlet of wire starter (2) with fabric adhesive tape (1)
- Cut off required length (A) from cutting wire (A) = Window diagonal x 4
- Check whether wire can get caught on rivets or retainers; if necessary, insert guide needles in bonding joint and guide cutting wire past

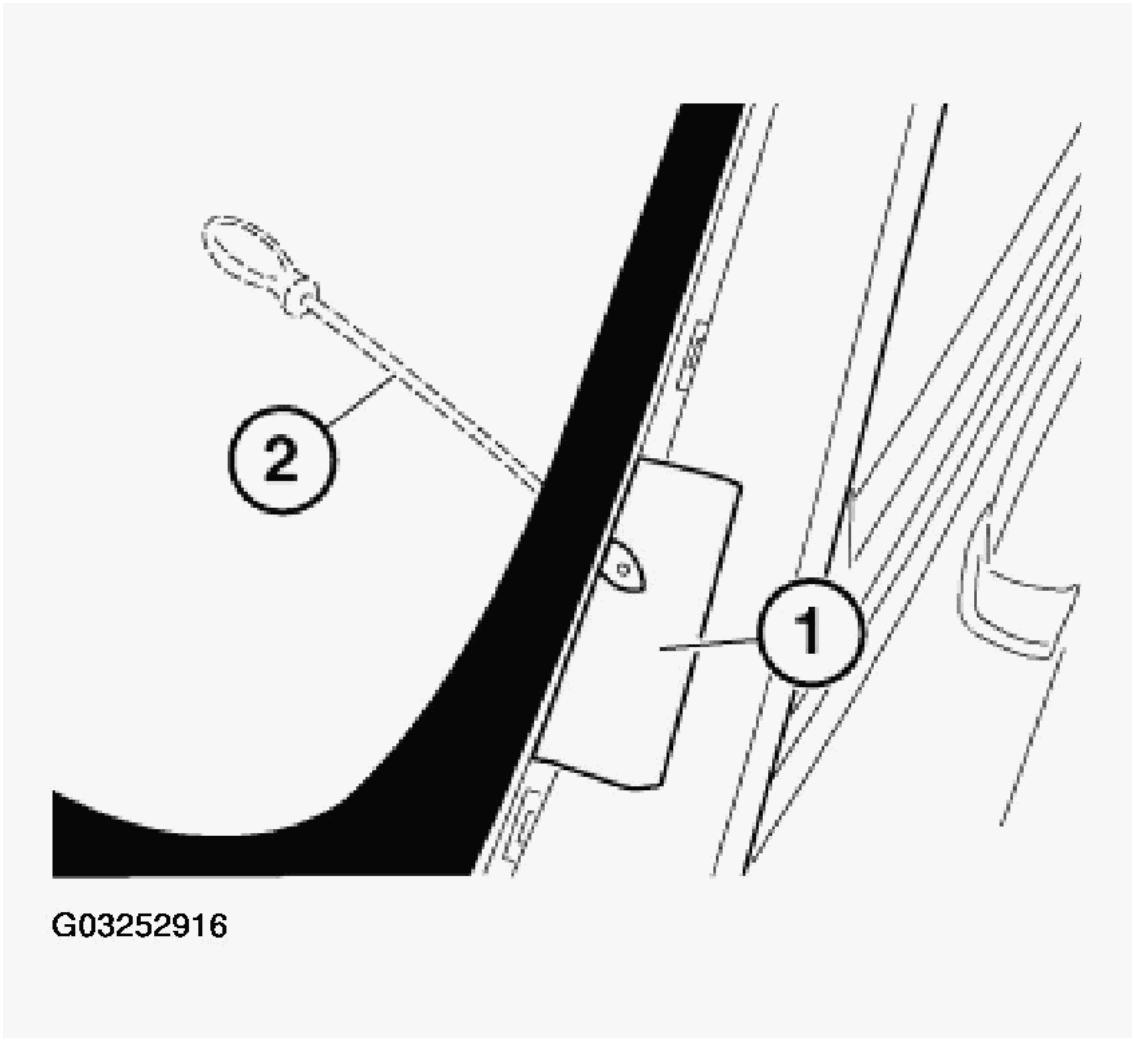


Fig. 254: Cutting Off Required Length (A) From Cutting Wire
Courtesy of BMW OF NORTH AMERICA, INC.

Pulling Cutting Wire Into Car:

- Push wire starter (2) from inside at a suitable point through adhesive bead
- Feed wire end (1) into hole of wire starter (2) and bend back
- Pull in both wires in succession crossways

NOTE: Crossing the wire cuts through the adhesive bead completely.

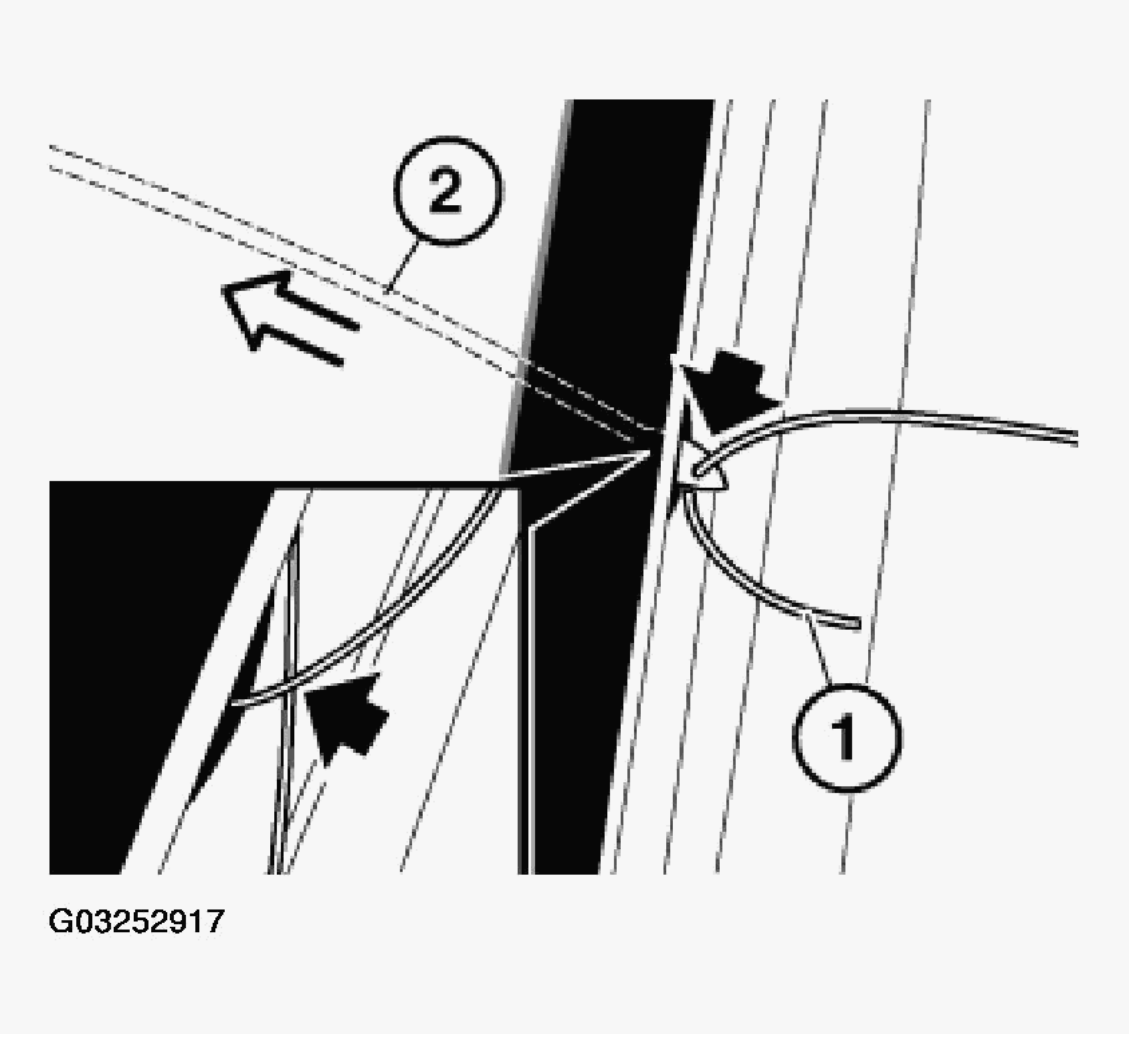


Fig. 255: Pushing Wire Starter From Inside At A Suitable Point Through Adhesive Bead
Courtesy of BMW OF NORTH AMERICA, INC.

Laying Cutting Wire Around Windscreen:

- Starting from pull-in point, lay wire eyelet created on the outside counterclockwise around the windscreen
- Pull excess wire into car interior

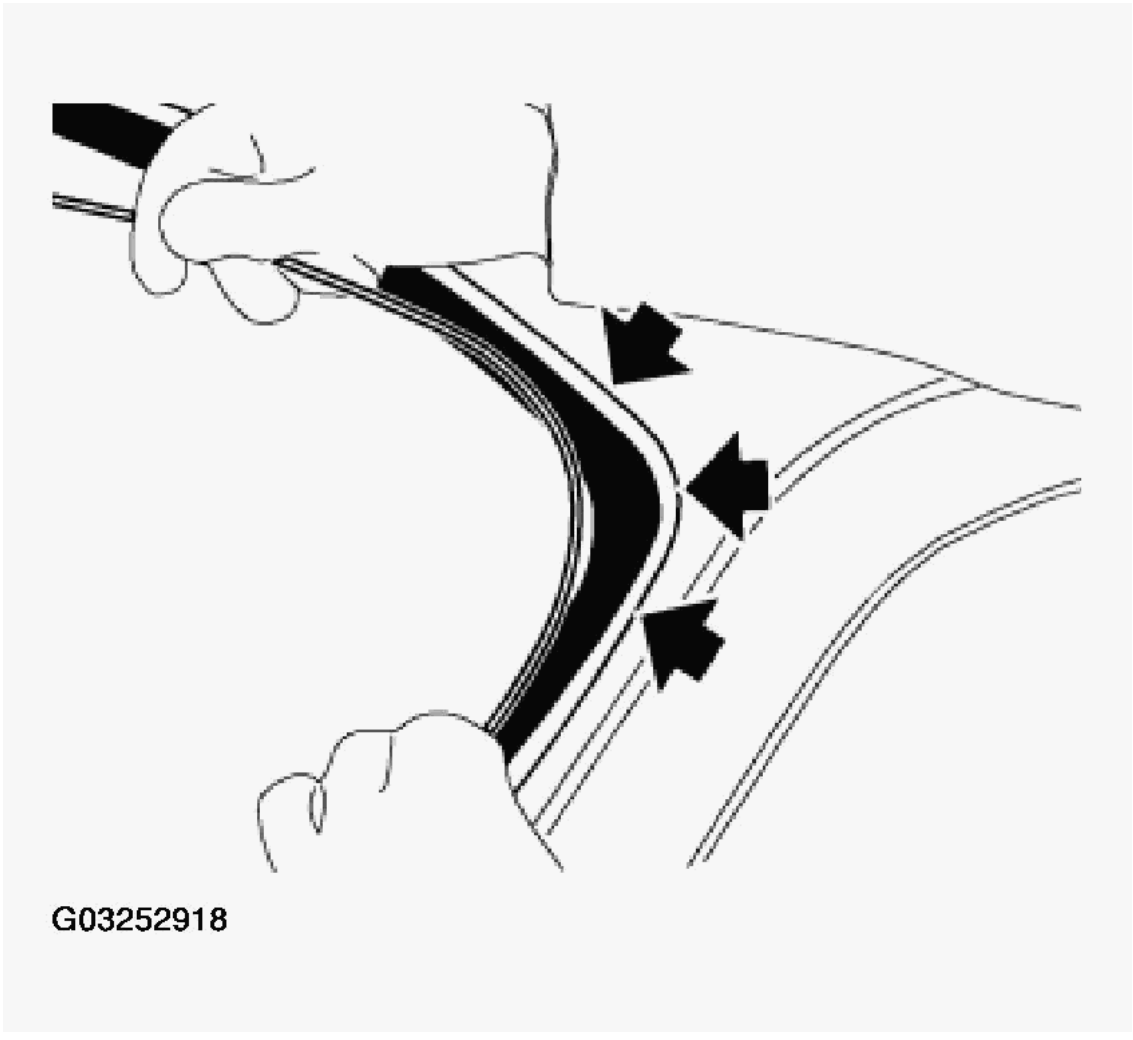


Fig. 256: Pulling Excess Wire Into Car Interior
Courtesy of BMW OF NORTH AMERICA, INC.

IMPORTANT: Make sure the cutting wire is located at all four corner points below the windscreen.

Check that the cutting wire is not caught on retainers or body.

Secure window on outside with adhesive tape against slipping

NOTE: Windows (1) with fitted seals (3) or sprayed-on surrounds:

- **Moisten cutting wire (4) and seals (3) on window (1) with water**
- **Insert cutting wire (4) in bend (without kinking) between window (1) and body cutout (2)**

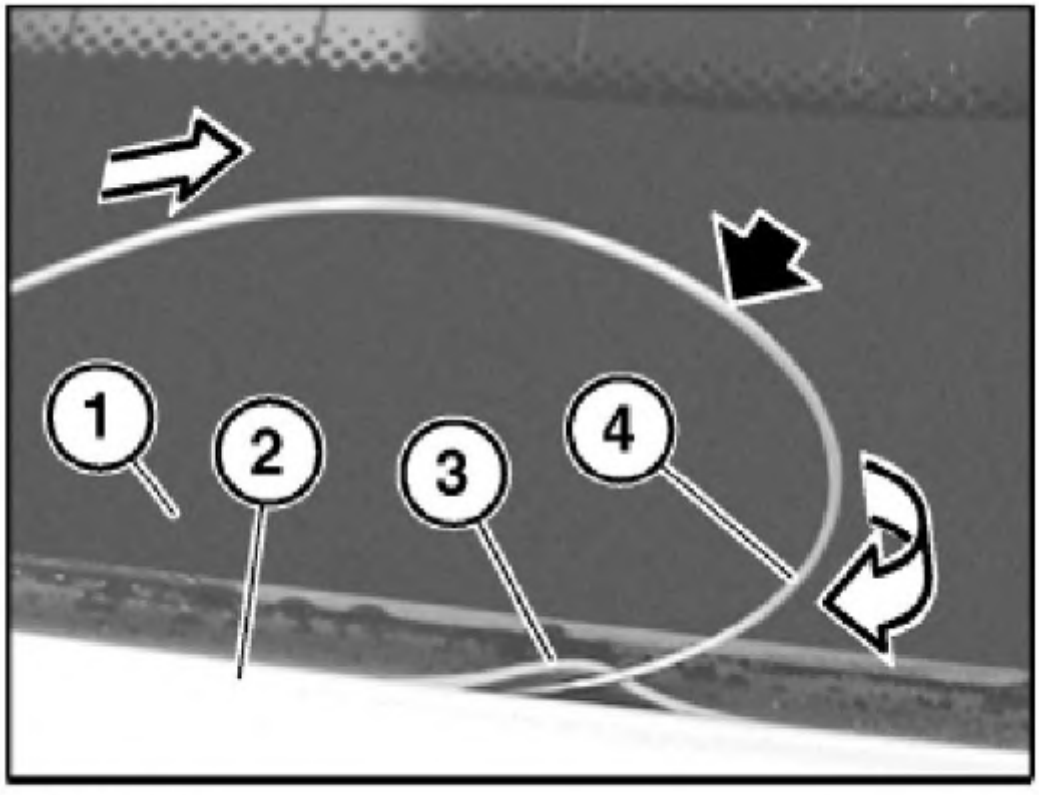


Fig. 257: Inserting Cutting Wire In Bend (Without Kinking) Between Window And Body Cutout
Courtesy of BMW OF NORTH AMERICA, INC.

Protecting Car Interior:

- To avoid damage and if necessary dirt, protect A-pillars, roof and instrument panel by means of parabolic tool (1) or plastic washer (2)
- Move parabolic tool (1) during removal so that wire cannot get caught
- Always guide plastic washer (2) between wire and panel

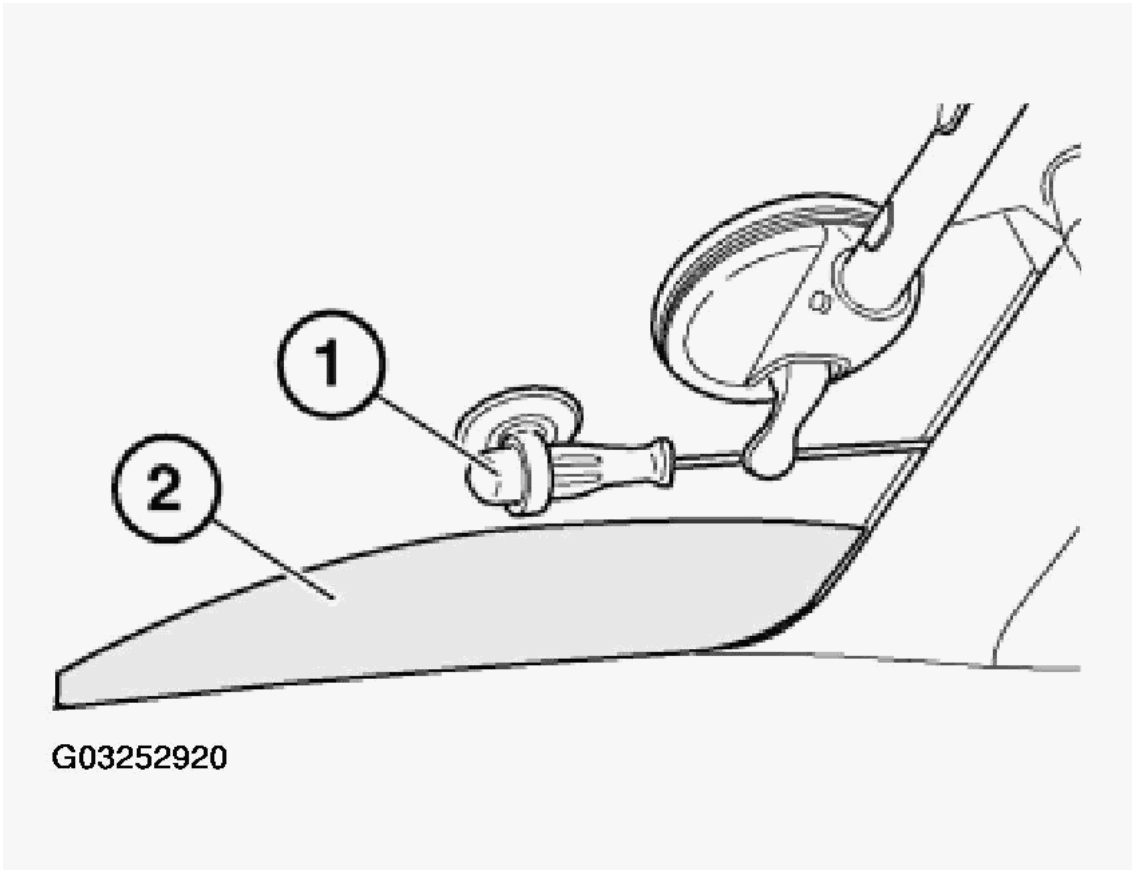


Fig. 258: Moving Parabolic Tool
Courtesy of BMW OF NORTH AMERICA, INC.

Starting Removal:

- Place windlass (1) on windscreen

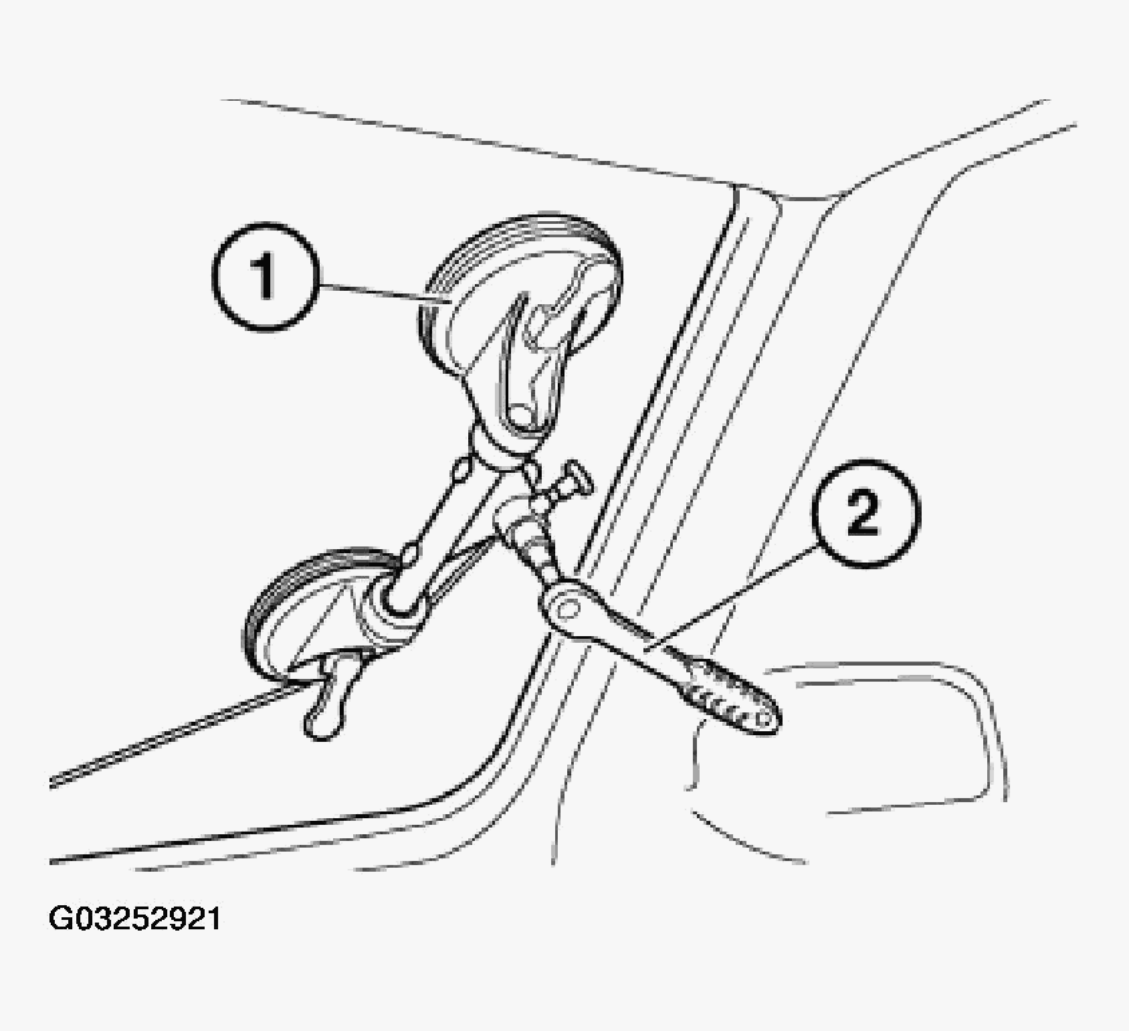


Fig. 259: Placing Windlass (1) On Windscreen
Courtesy of BMW OF NORTH AMERICA, INC.

- Feed wire end into coil of windlass (1)

NOTE: Coil can only be turned in one direction.

- Make sure the wire is always situated in the guide channel of the windlass (1)
- Fit reversible ratchet (2) on coil and tension wire
- Start by cutting lower adhesive bead
- Grip second wire end in special tool 51 3 270

Moving Windlass:

- Before moving windlass, remove reversible ratchet, extension and parabolic tool
- Release sucker on windlass
- Pull and hold black locking button (1)

- Turn windlass and move with sucker
- Refit reversible ratchet, parabolic tool and if necessary extension
- When cutting the corner points, make sure the wire is situated in the guide channel of the windlass; this makes the cutting job easier

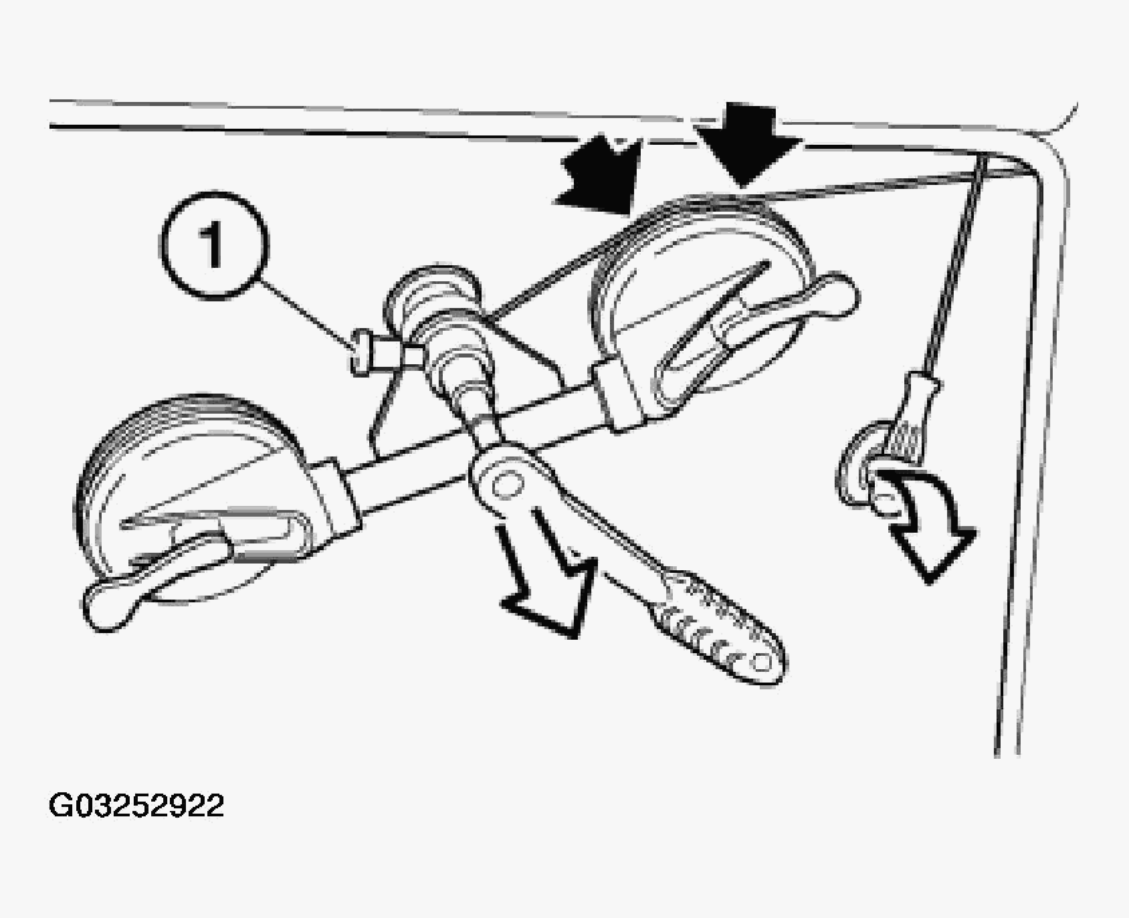


Fig. 260: Holding Black Locking Button
Courtesy of BMW OF NORTH AMERICA, INC.

Installing Second Windlass:

- Secure second windlass by suction on windscreen
- Feed second wire end into coil
- Cut left side and top left corner point, as described above
- Finish removal
- Remove "Roll Out 2000"

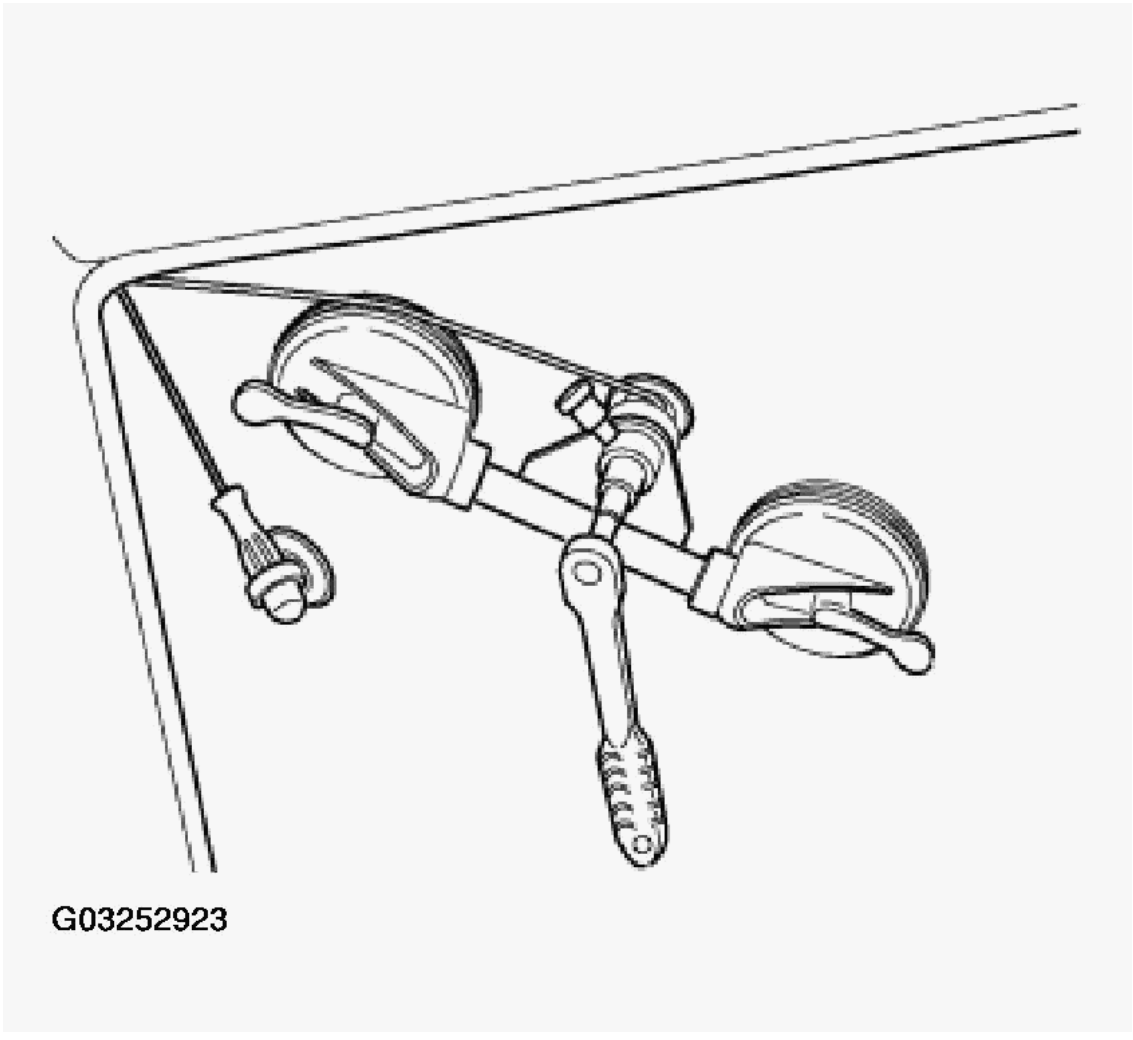
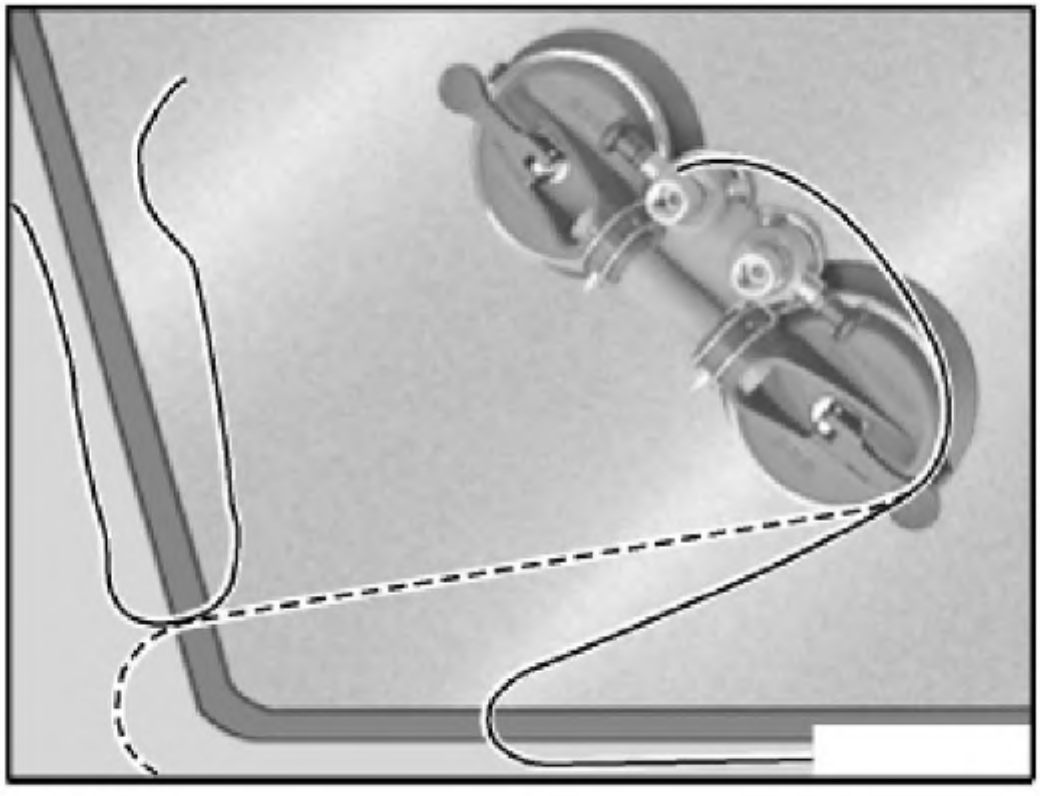


Fig. 261: Feeding Second Wire End Into Coil
Courtesy of BMW OF NORTH AMERICA, INC.

Windlass With Double Coil:

For use with small windows.

- Attach windlass firmly to window so that both coils are turned away from application point of wire
- Feed either the upper wire end into the lower coil or the lower wire end into the upper coil
- Fit reversible ratchet on coil and tension wire
- Cut through approx. 10 cm of bonding joint



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Fig. 262: Fitting Reversible Ratchet On Coil And Tension Wire
Courtesy of BMW OF NORTH AMERICA, INC.

- Feed other wire end into free coil so that the wires cross
- Continue cutting bonding joint by alternately using the coils
- Both wires meet ahead of both coils when removal is completed
- Remove "Roll Out 2000"

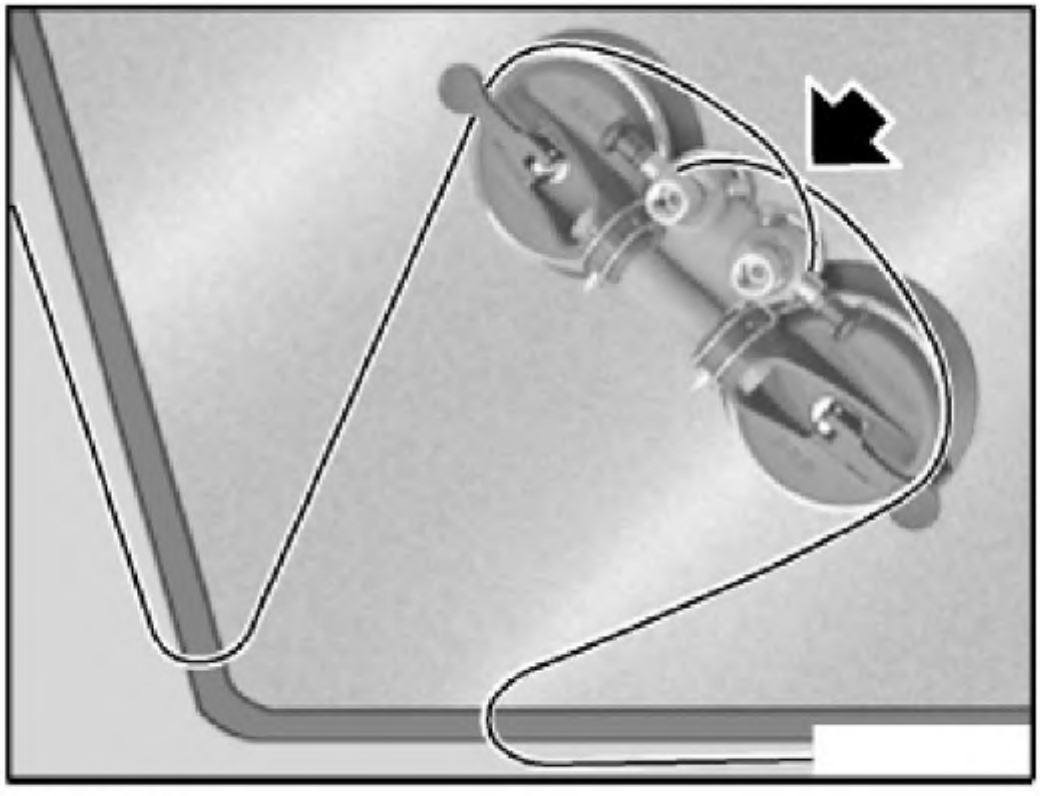


Fig. 263: Feeding Other Wire End Into Free Coil
Courtesy of BMW OF NORTH AMERICA, INC.

51 31 000 REMOVING AND INSTALLING/REPLACING WINDSCREEN

IMPORTANT: The 51 31 ... Instructions On Gluing Windscreen serve as the basis for these repair instructions and must be followed without fail.

51 31 015 REPAIRING DAMAGE TO WINDSCREENS CAUSED BY PITTING (STONE CHIPS) (CLEAR AND TINTED LAMINATED SAFETY GLASS)

Field Of Vision (No Repairs Acceptable):

IMPORTANT: Repairs must only be carried out outside of the field of vision.

If the stone chip damage is outside the field of vision, refer to **51 31 ... REMOVING WINDSCREEN WITH "ROLL OUT 2000"**

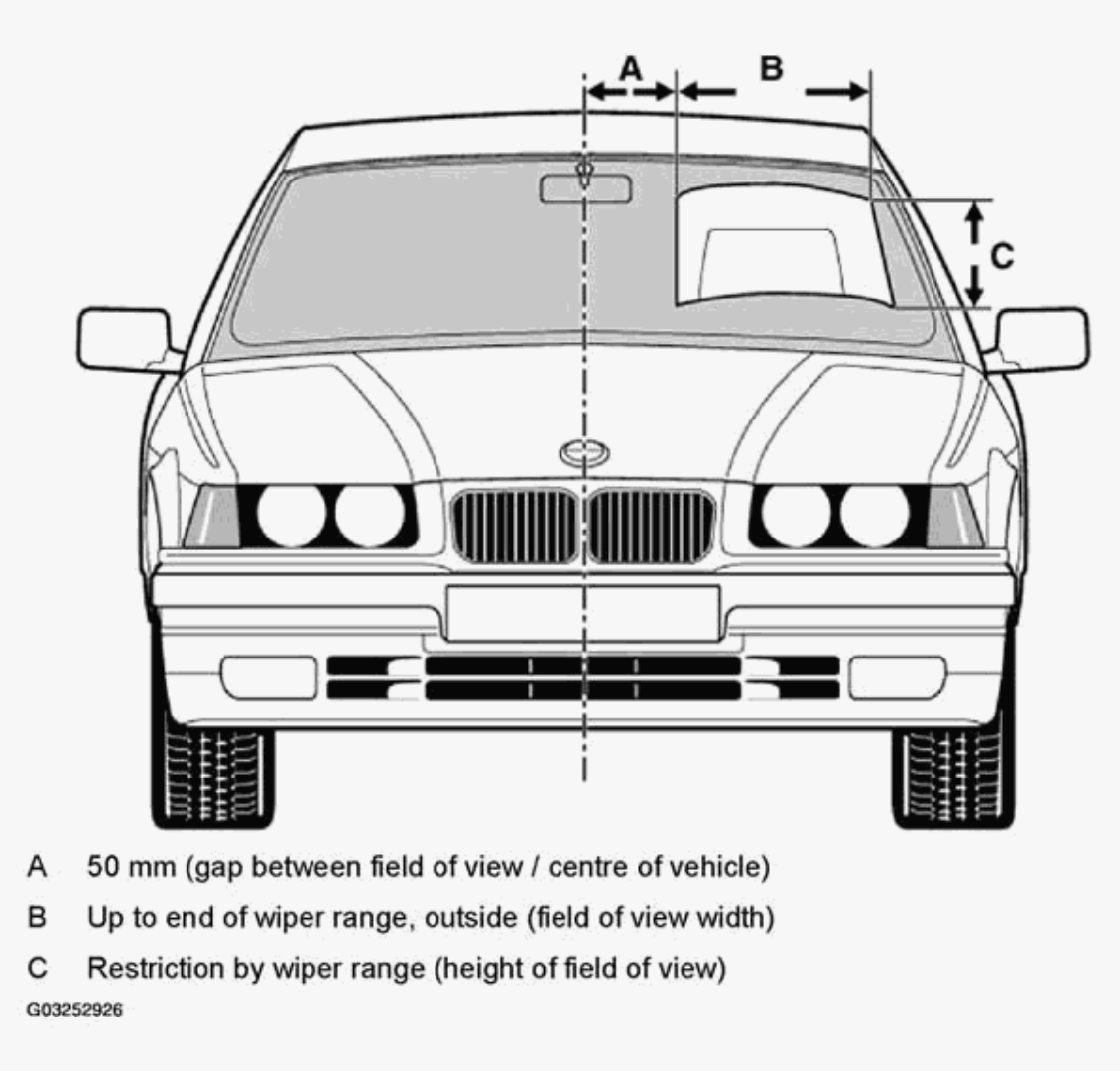


Fig. 264: Identifying Field Of Vision (No Repairs Acceptable)
Courtesy of BMW OF NORTH AMERICA, INC.

51 31 021 REMOVING AND INSTALLING/REPLACING RUBBER FRAME FOR WINDSHIELD (TOP)

**CAUTION: Rubber frame is reinforced with an aluminum strip.
Do not damage windshield when removing rubber frame.**

Carefully turn and remove rubber frame (1).

Tear-off lip (2).

Aluminum strip (3).



Fig. 265: Removing Rubber Frame
Courtesy of BMW OF NORTH AMERICA, INC.

NOTE: When rubber frame (1) is removed, lip (2) tears off and remains in car.

Removing And Installing Windshield:

Tear-off lip (2) on new rubber frame (1) must not be damaged. If the tear-off lip (2) is damaged, the rib (3) will stick and the rubber frame (1) will not be able to be removed without major damage.

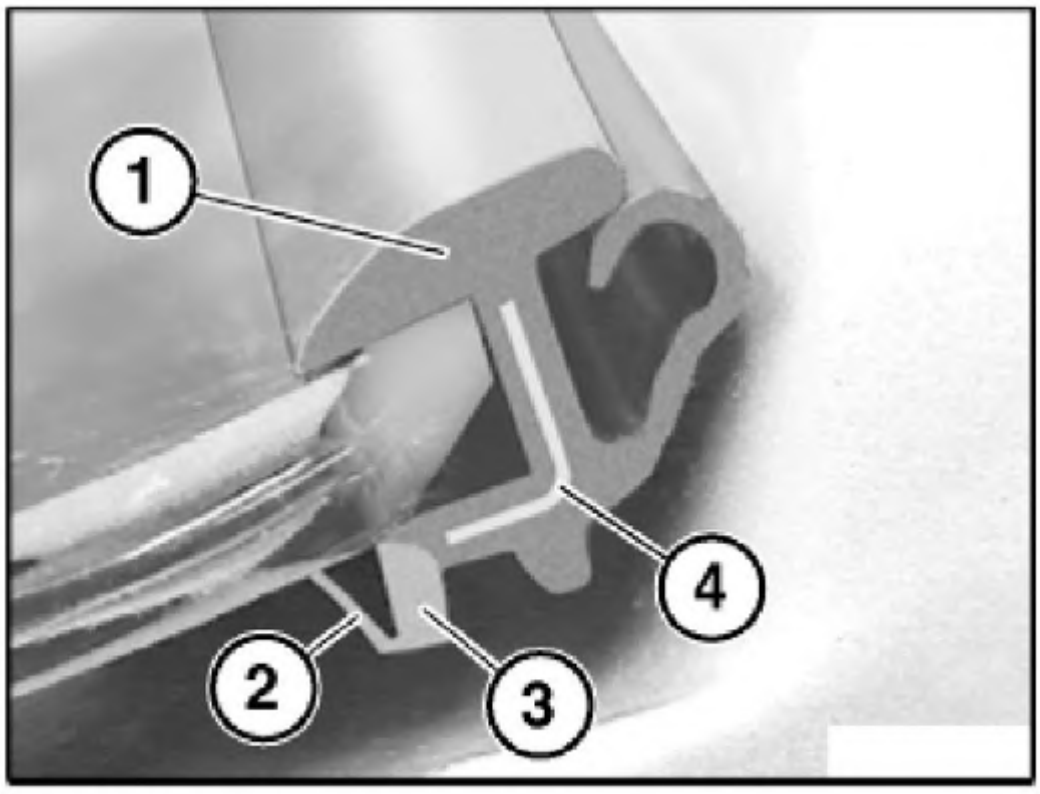
Removing And Installing Rubber Frame (1):

Cut through tear-off lip (2) on new rubber frame (1). If adhesive has reached rib (3) through tear-off lip (2), this

area must be cut out partially.

To facilitate installation, coat rubber frame and body cutout with turpentine substitute.

Aluminum strip (4).



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Fig. 266: Locating Aluminum Strip
Courtesy of BMW OF NORTH AMERICA, INC.

51 31 200 REMOVING AND INSTALLING/REPLACING REAR WINDOW

IMPORTANT: The 51 31 ... Instructions On Gluing Windscreen serve as the basis for these repair instructions and must be followed without fail.

51 31 221 REPLACING REAR WINDOW (REAR WINDOW BROKEN)

Operation Is Described In:

Remove and install rear window, refer to **51 31 200 REMOVING AND INSTALLING/REPLACING REAR WINDOW** .

Remove all glass splinters, also from underneath seats.

Check seat belts:

- condition of seatbelt strap,
- function of retractor mechanism,
- locking reel and
- seatbelt buckle.

51 31 231 REPLACING REAR WINDOW (COMPLETE REAR WINDOW)

Operation Is Described In:

Remove and install rear window, refer to **51 31 200 REMOVING AND INSTALLING/REPLACING REAR WINDOW** .

FRONT MANUALLY OPERATED WINDOWS

51 32 154 ADJUSTING LEFT OR RIGHT FRONT DOOR WINDOW

Special Tools Required

- 51 3 080

Adjusting Door Window Glass:

Ideal adjustment:

Retraction depth along window edge min. 6 mm.

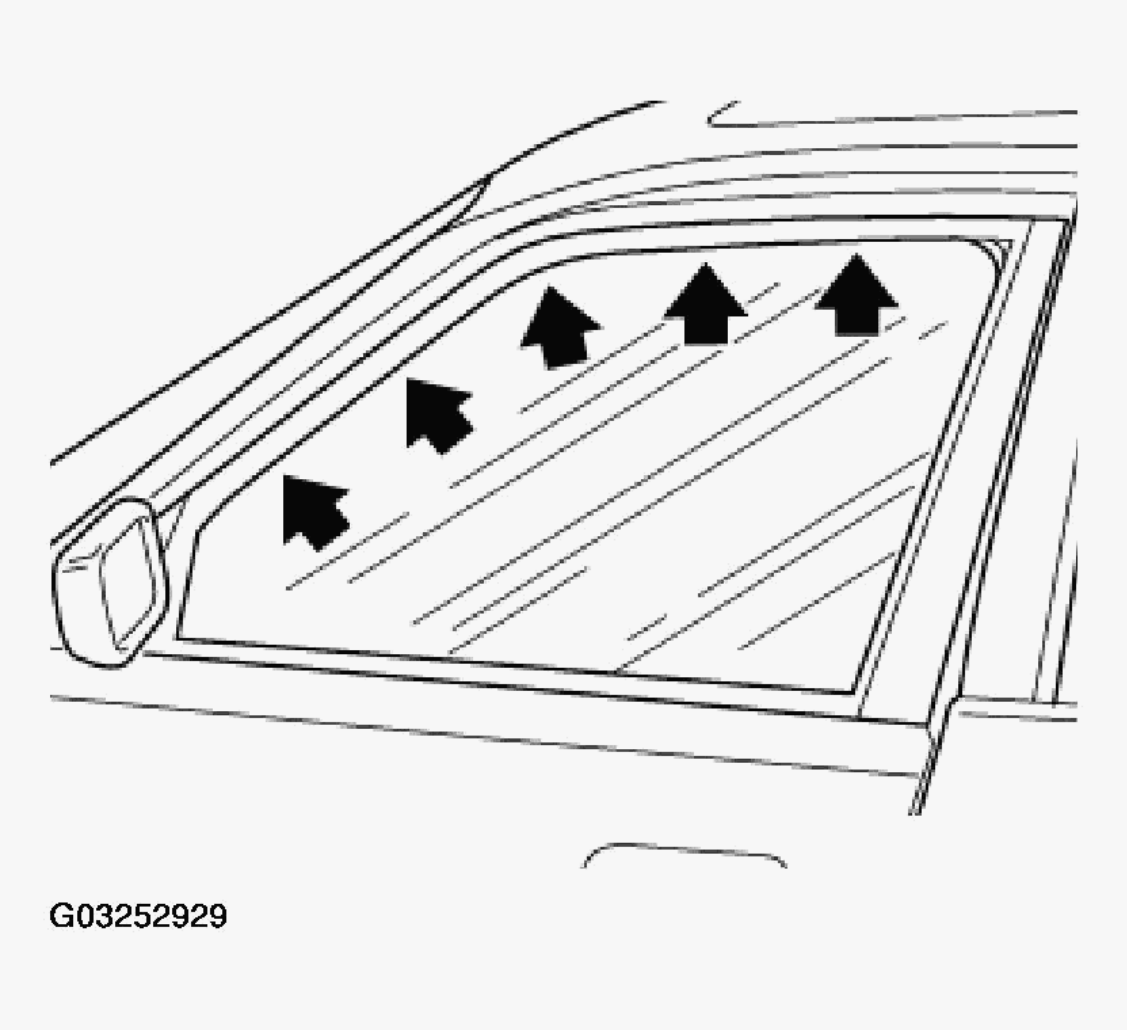


Fig. 267: Identifying Retraction Depth
Courtesy of BMW OF NORTH AMERICA, INC.

Measuring retraction depth:

Open door, attach special tool 51 3 080 to door window glass and close door.

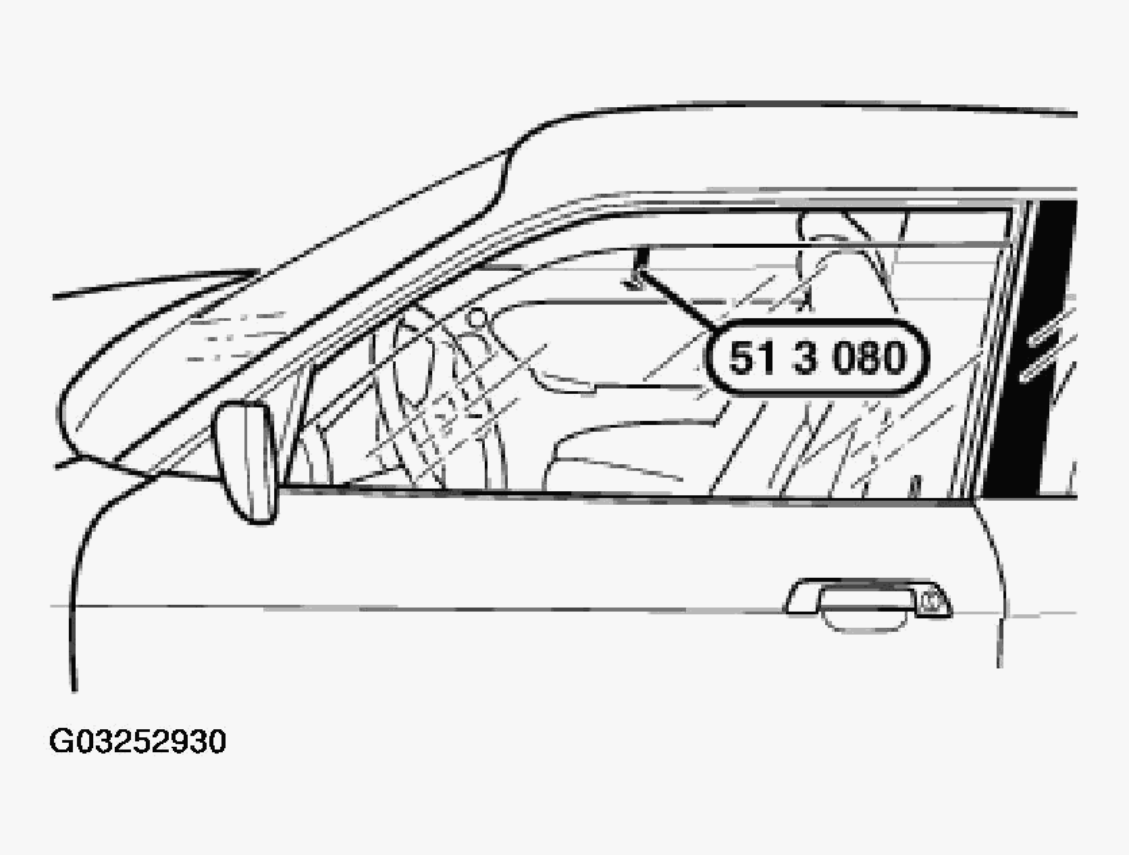


Fig. 268: Measuring Retraction Depth
Courtesy of BMW OF NORTH AMERICA, INC.

NOTE: Partially detach soundproofing in areas (1) and (3) only.

Side airbag (2) remains fitted.

For partial detachment of soundproofing, follow procedure detailed in Removing and installing/replacing soundproofing in left or right front door, refer to **51 48 ... REMOVING AND INSTALLING/REPLACING SOUND INSULATION IN FRONT DOOR, LEFT OR RIGHT**

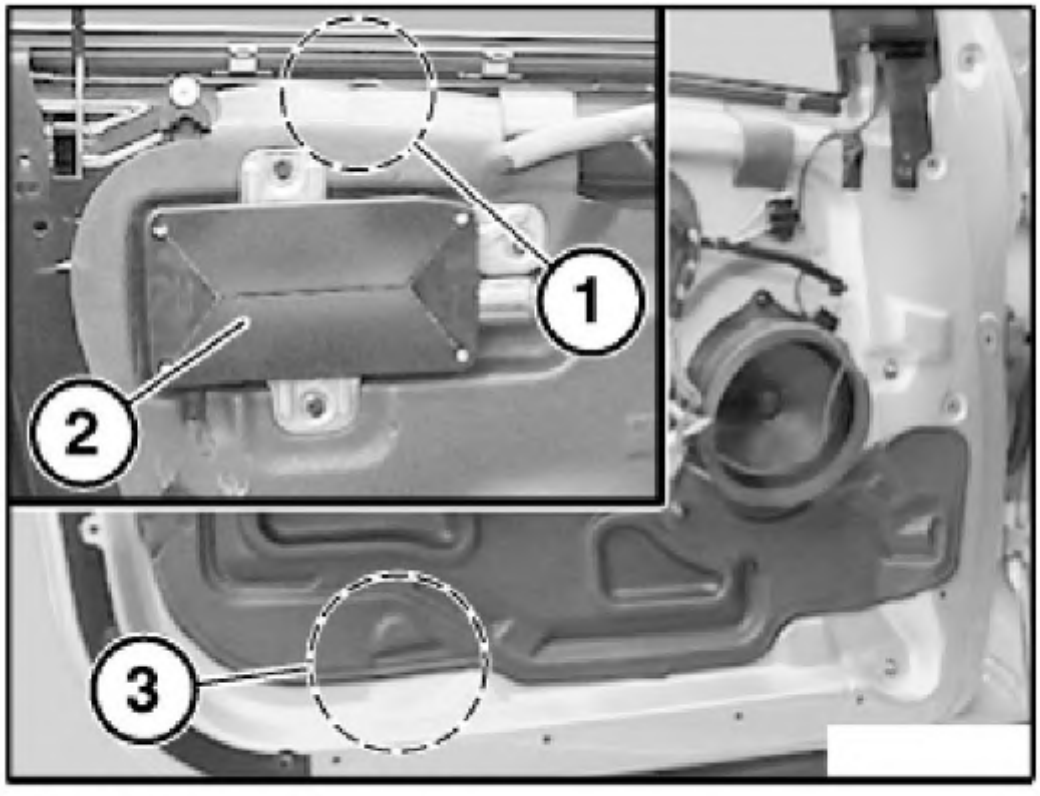


Fig. 269: Partially Detaching Soundproofing In Areas (1) And (3) Only
Courtesy of BMW OF NORTH AMERICA, INC.

NOTE: For purposes of clarity, illustration shows soundproofing removed.

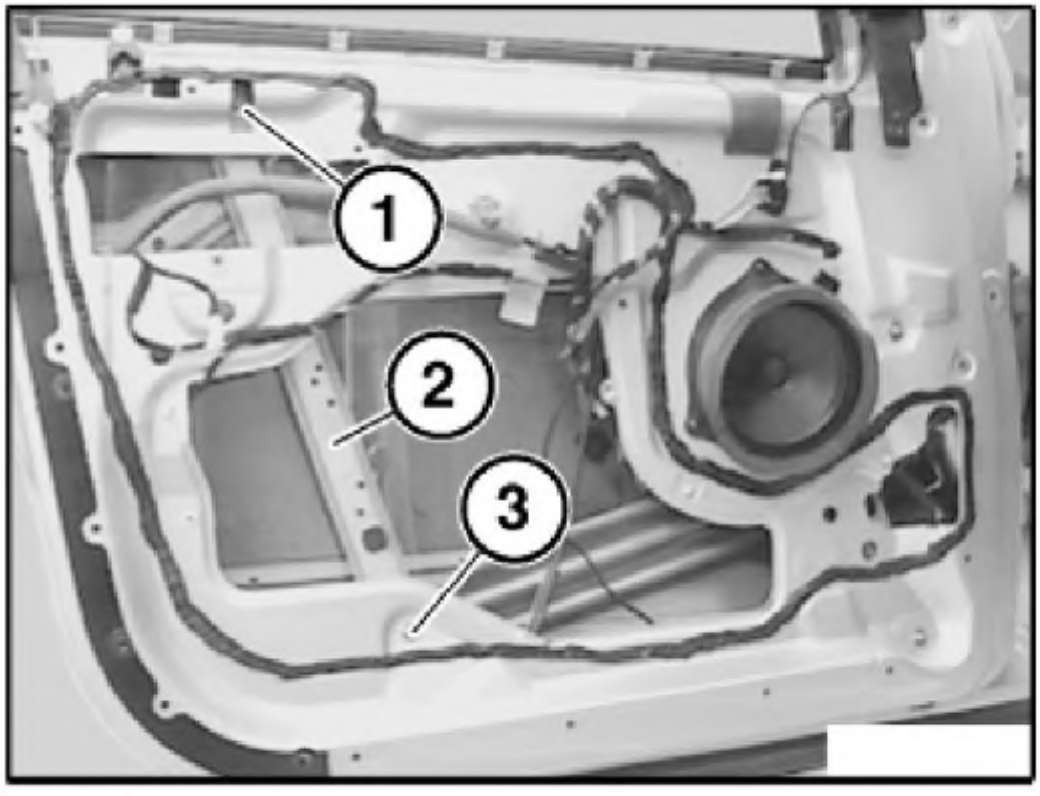
Slacken off nuts (1) and (3) (do not release fully).

Close door window glass with window lift (2) fully and if necessary press upwards until ideal setting is obtained.

Tighten down nuts (1) and (3).

Installation:

Tightening torque, see 51 32 2AZ in **BODY EQUIPMENT - TIGHTENING TORQUES** .



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Fig. 270: Slackening Off Nuts (1) And (3)
Courtesy of BMW OF NORTH AMERICA, INC.

51 32 160 REMOVING AND INSTALLING/REPLACING COVER (ANTI-TRAPPING PROTECTION) ON DOOR WINDOW FRAME, LEFT OR RIGHT

Remove front door trim panel. See **51 41 000 Removing And Installing Left Or Right Front Door Trim Panel** .

Rear for outside trim (51 32 420) only:

Carefully lever out clip (1) and lever out cover (2) in rear area.

Additionally for complete removal:

Disconnect plug connection (3).

Carefully lever out clip (4) and lever out cover (2) completely.

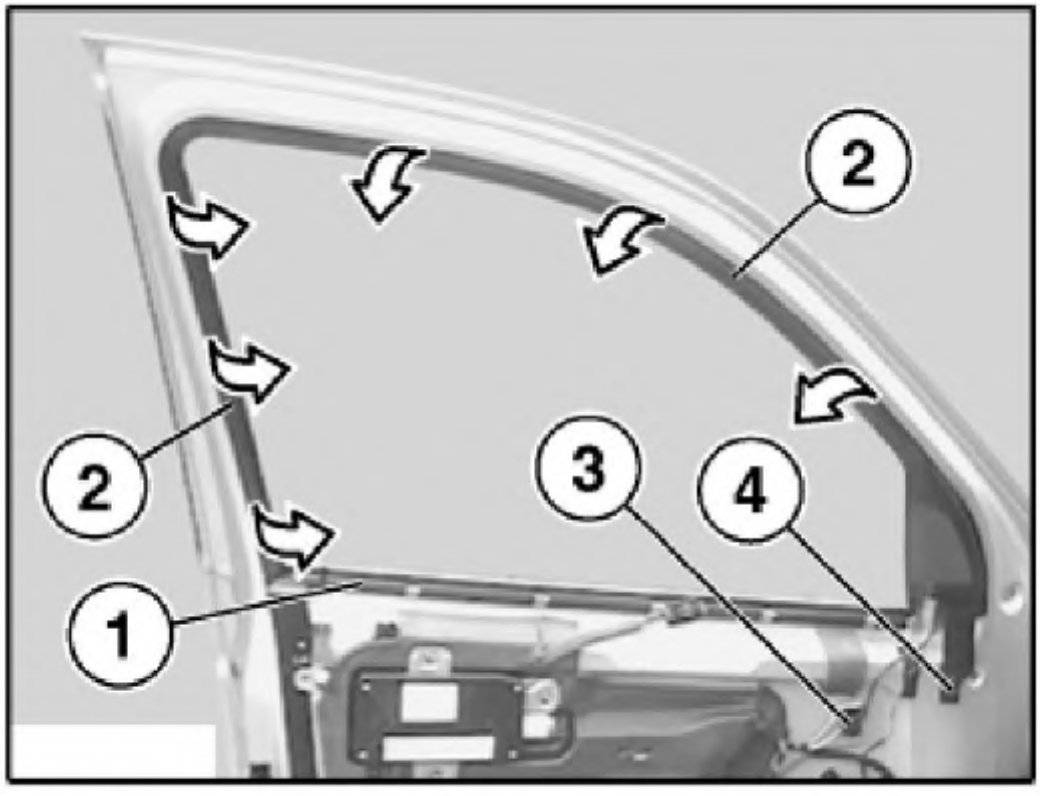


Fig. 271: Disconnecting Plug Connection
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

If applicable, replace defective clips (1).

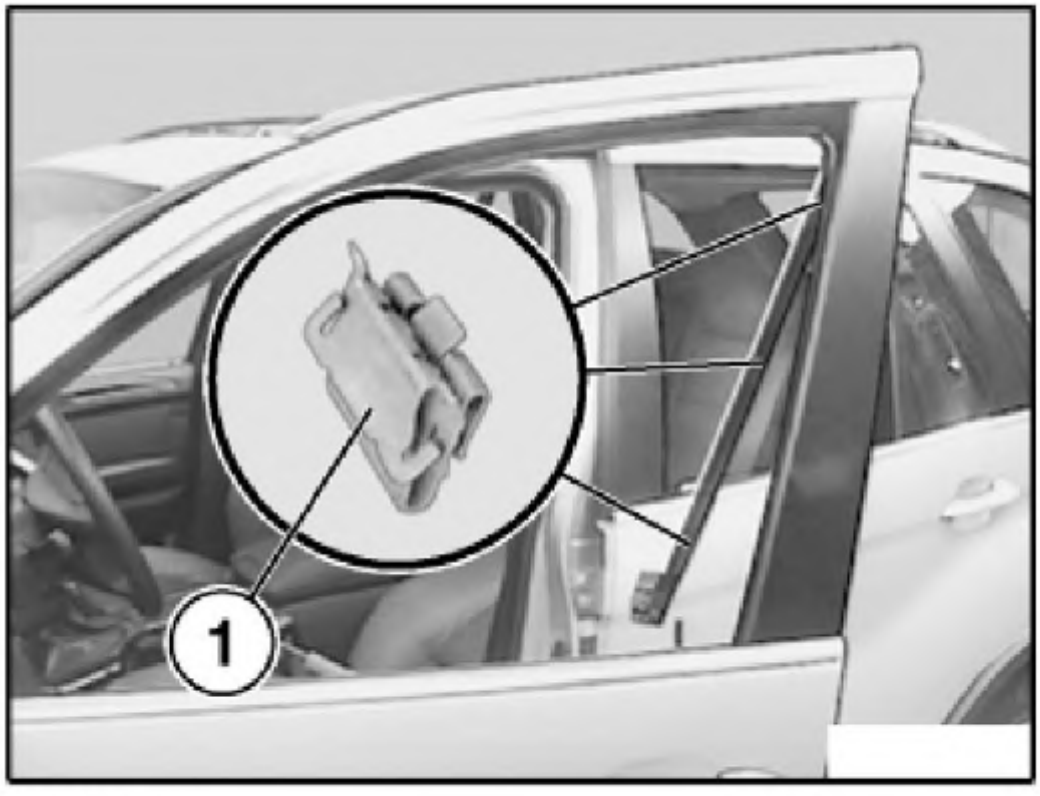


Fig. 272: Inspecting Clips
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Clips (1) on cover (2) must not be damaged.

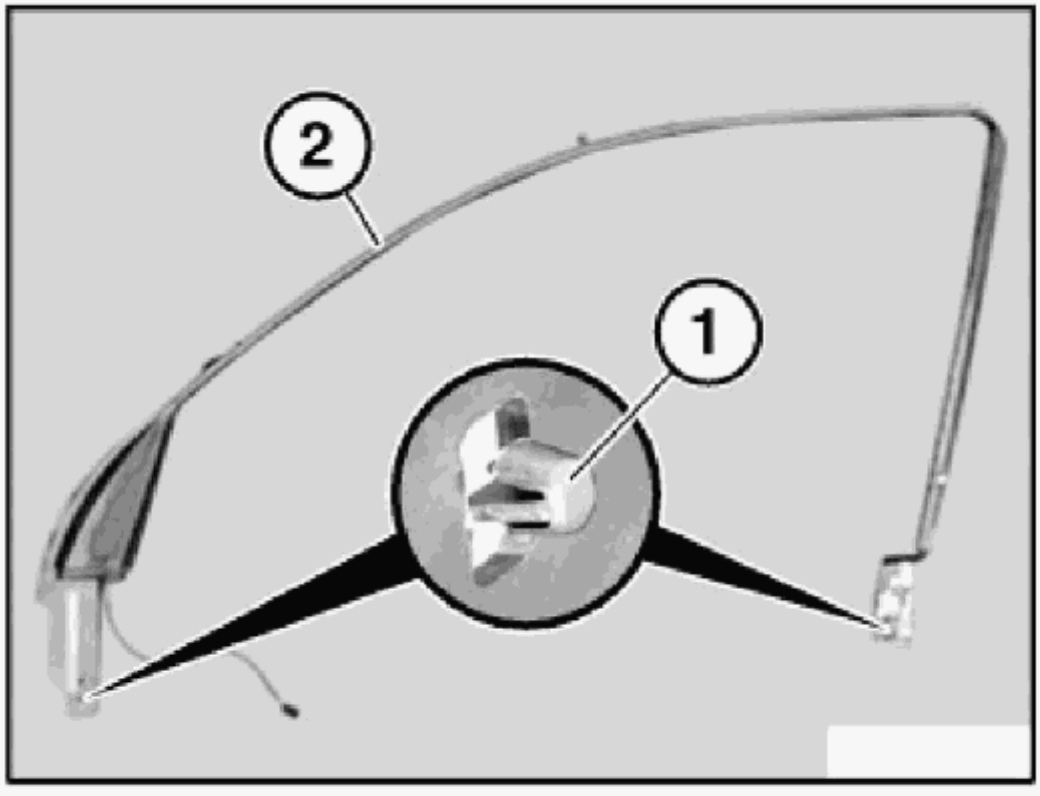


Fig. 273: Checking Clips On Cover
Courtesy of BMW OF NORTH AMERICA, INC.

51 32 170 REMOVING AND INSTALLING/REPLACING DOOR WINDOW GLASS, FRONT LEFT OR RIGHT

Remove window cavity cover strip on outside. See **51 21 300 Removing And Installing/Replacing Window Cavity Cover Strip On Outside Of Front Door** .

Remove sound insulation on front door. See **51 48 ... Removing And Installing/Replacing Sound Insulation In Front Door, Left Or Right** .

Open door window glass to distance (A). A approx. 145 mm

CAUTION: Disconnect battery negative lead.

Loosen screws (1).

Detach glass (3) from window regulator (2), turn and lift out towards rear/top from front door.

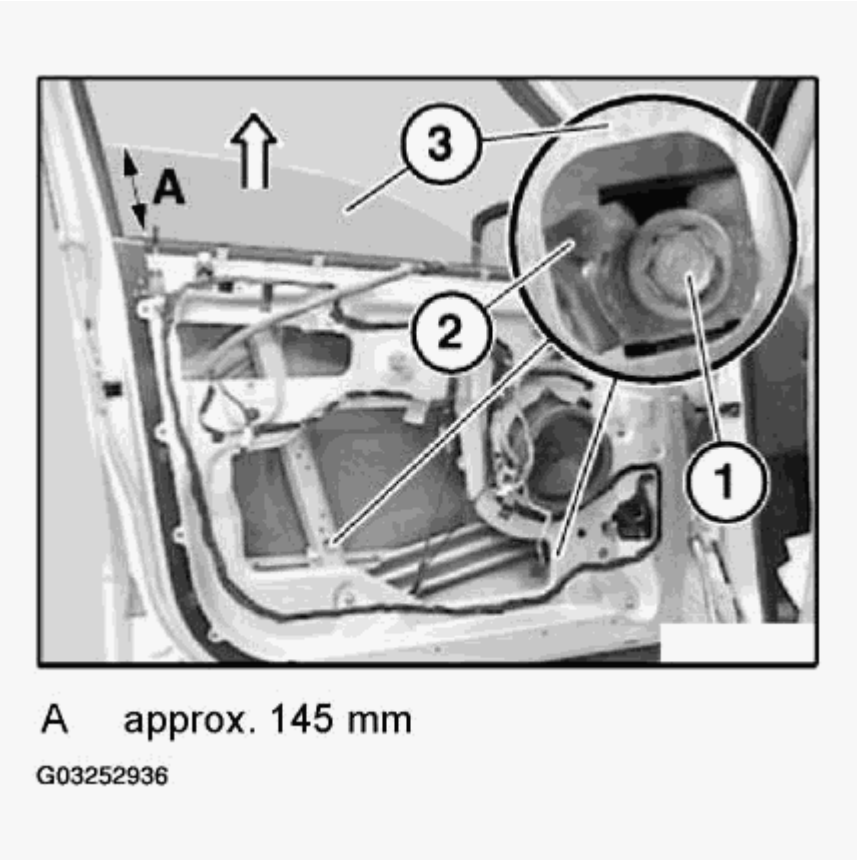


Fig. 274: Opening Door Window Glass To Distance (A)
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Each time the door window glass is removed or replaced, the holders (2) must be replaced.

If necessary, fit new screws (1) and nuts (3) on door window glass (4).

Adjust door window glass.

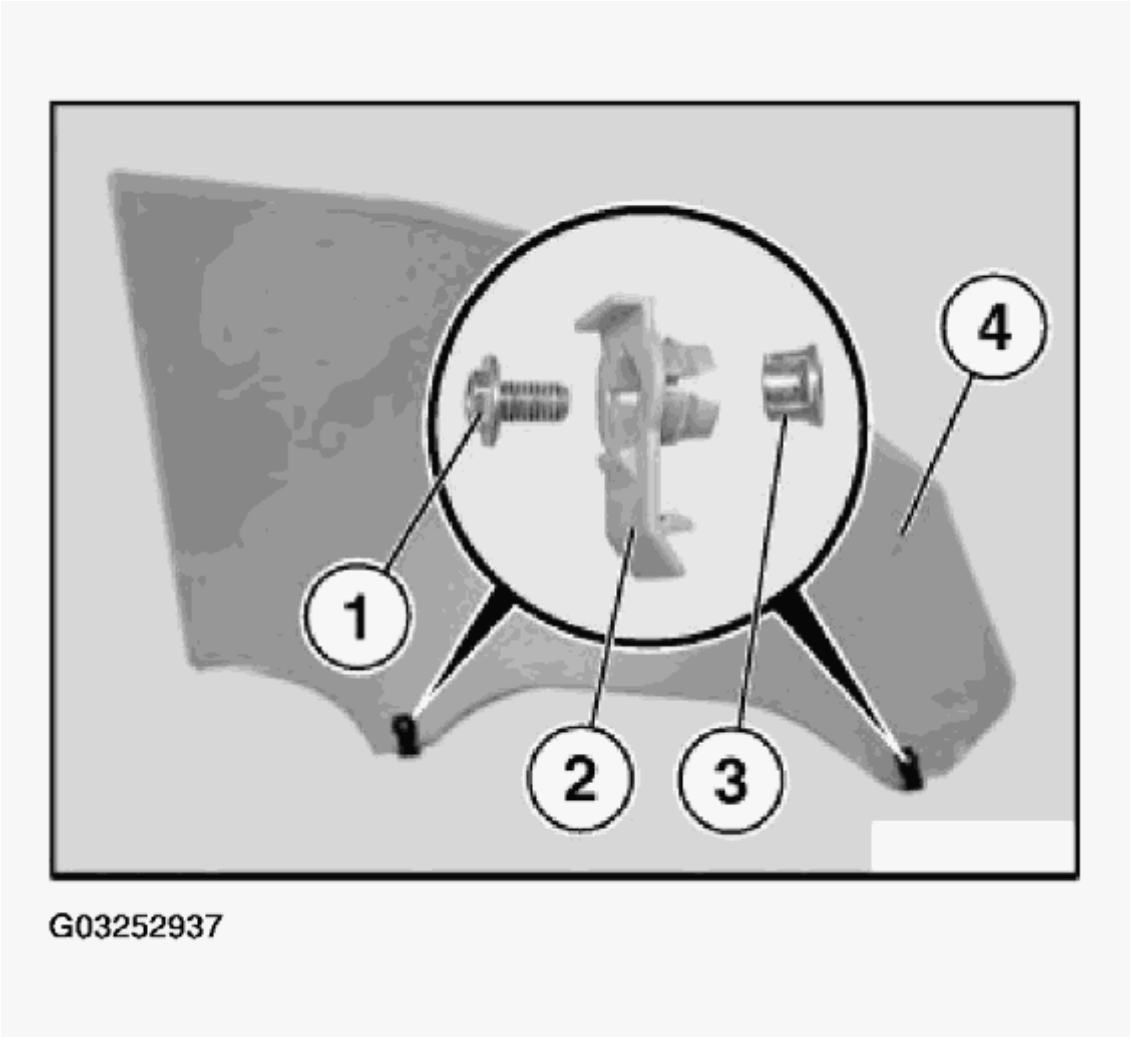


Fig. 275: Fitting Screws And Nuts On Door Window Glass
Courtesy of BMW OF NORTH AMERICA, INC.

51 32 211 REPLACING FRONT LEFT OR RIGHT RUBBER GUIDE FOR LEFT OR RIGHT DOOR WINDOW

Remove window cavity cover strip on outside of front door. See **51 21 300 Removing And Installing/Replacing Window Cavity Cover Strip On Outside Of Front Door** .

Remove sound insulation on front door. See **51 48 ... Removing And Installing/Replacing Sound Insulation In Front Door, Left Or Right** .

Remove cover (anti-trap protection) on inside of door window frame.

Open complete door window glass.

Pull rubber guide (1) completely out of front door.

Installation:

For installation, coat window cavity seal (1) with turpentine substitute (sourcing reference: BMW Parts Service).

Insert rubber guide at front/bottom into window guide rail.

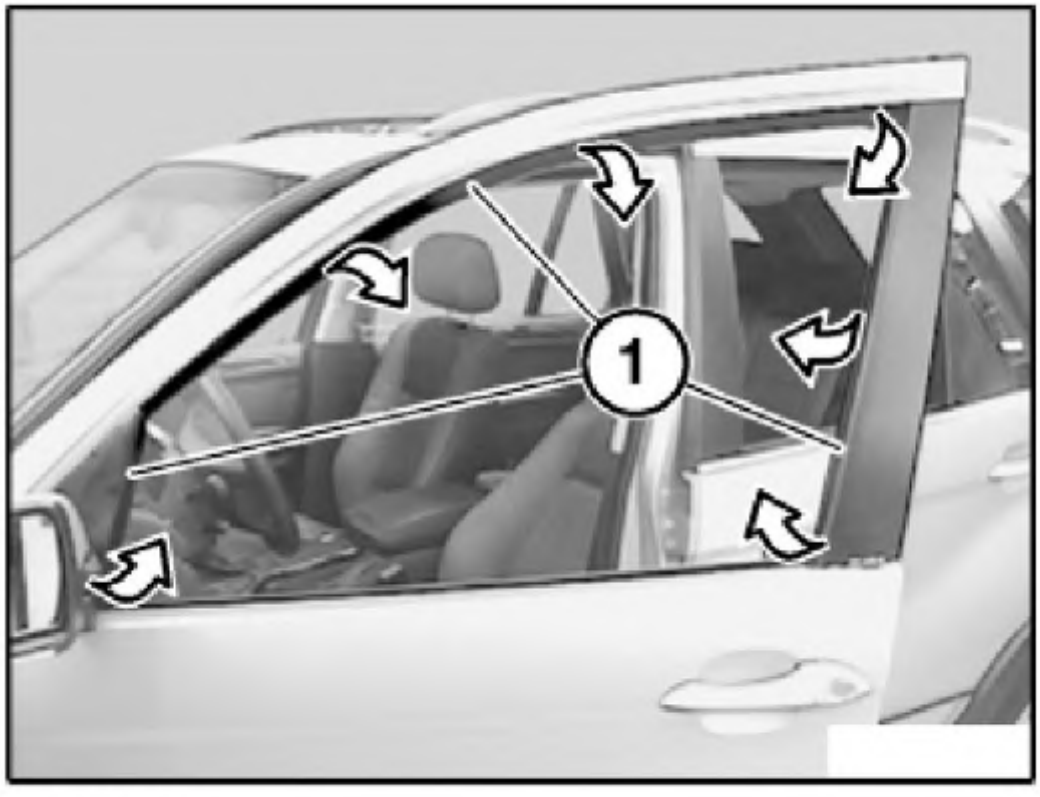


Fig. 276: Pulling Rubber Guide Completely Out Of Front Door
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Rubber guide (1) must not be damaged in corners (2).

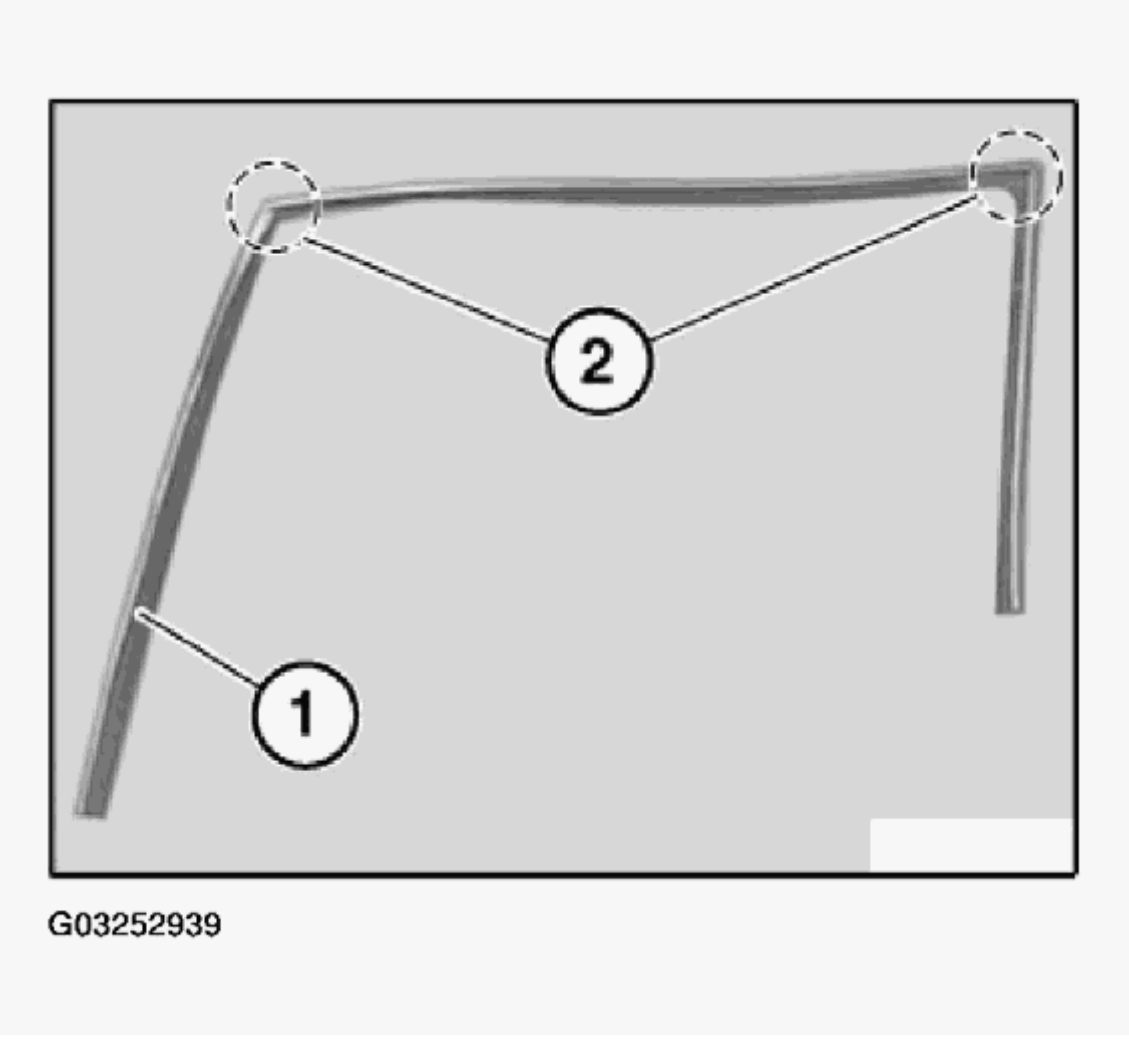


Fig. 277: Checking Rubber Guide
Courtesy of BMW OF NORTH AMERICA, INC.

51 32 390 REMOVING AND INSTALLING/REPLACING DECORATIVE STRIP ON FRONT LEFT OR RIGHT DOOR

Remove mirror on front door. **51 16 000 Removing And Installing/Replacing Mirror On Left Or Right Front Door** .

Remove trim on window frame of front door. **51 32 420 Removing And Installing/Replacing Finisher On Front Door Window Frame, Left Or Right** .

Remove cover (anti-trap protection) on inside of door window frame. **51 32 160 Removing And Installing/Replacing Cover (Anti-Trapping Protection) On Door Window Frame, Left Or Right** .

Open door window.

Pull off window rubber guide (1) in area of decorative strip (2).

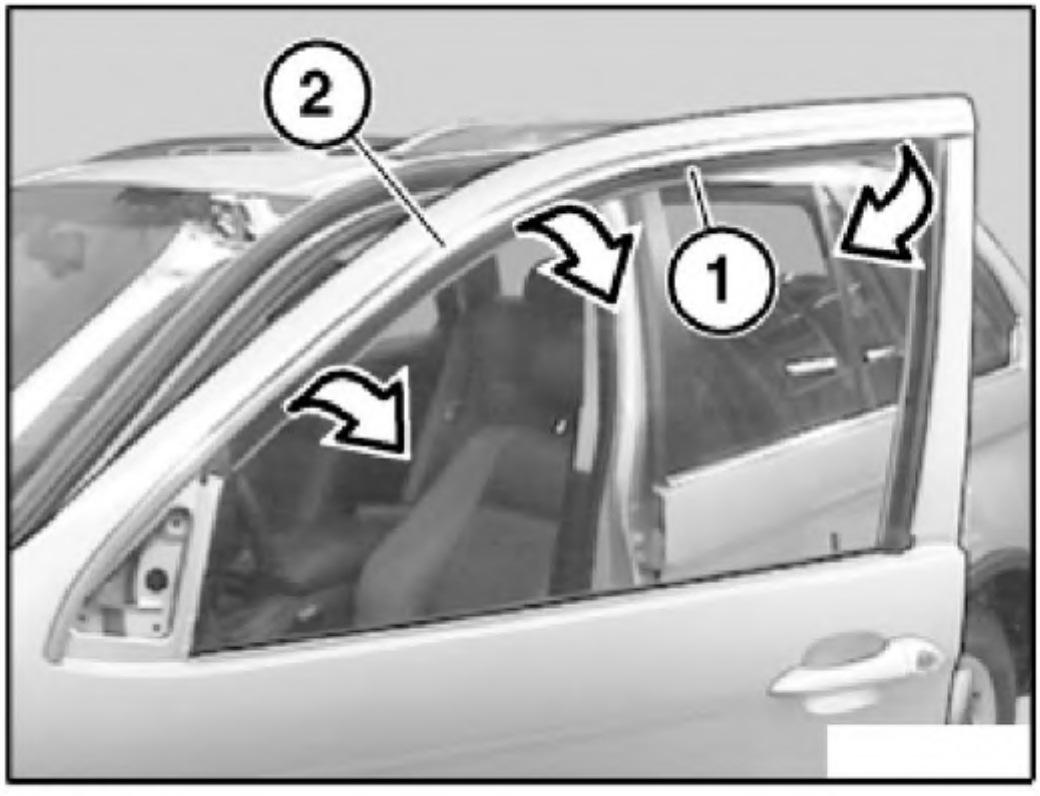


Fig. 278: Pulling Off Window Rubber Guide In Area Of Decorative Strip
Courtesy of BMW OF NORTH AMERICA, INC.

Unfasten screws (2).

Carefully unclip clips (4).

Detach decorative strip (1) outwards from clips (3).

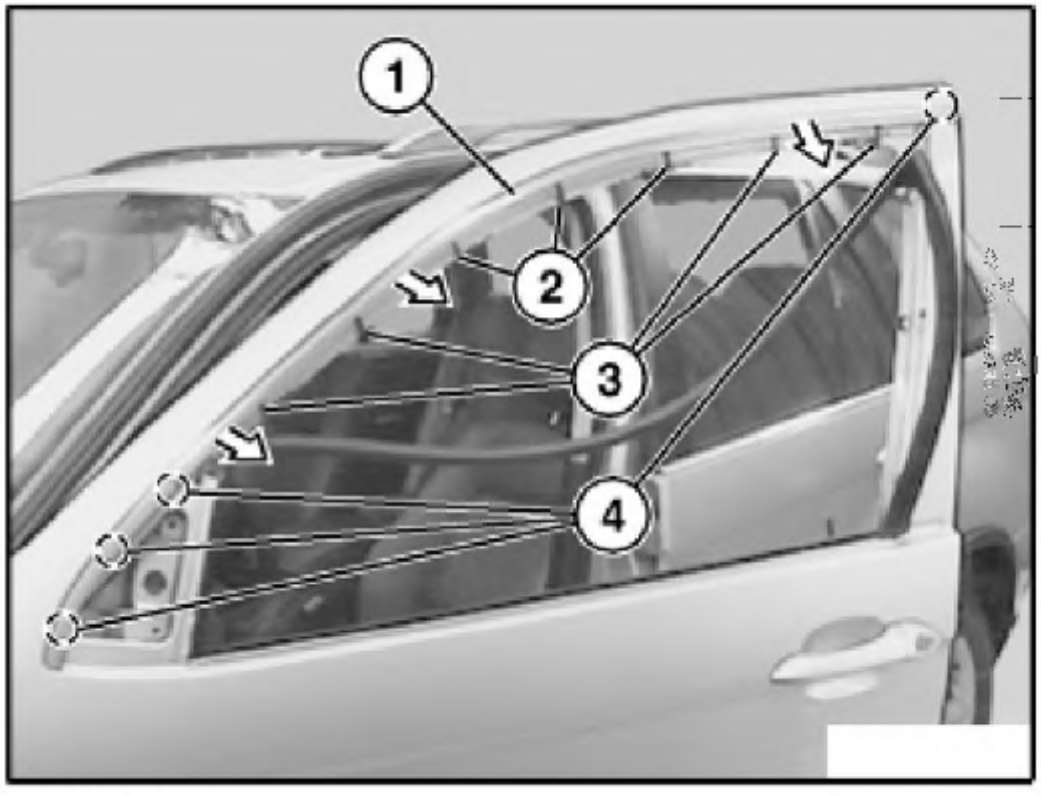


Fig. 279: Detaching Decorative Strip Outwards From Clips
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

If necessary, replace faulty clips (1) and grommets (2).

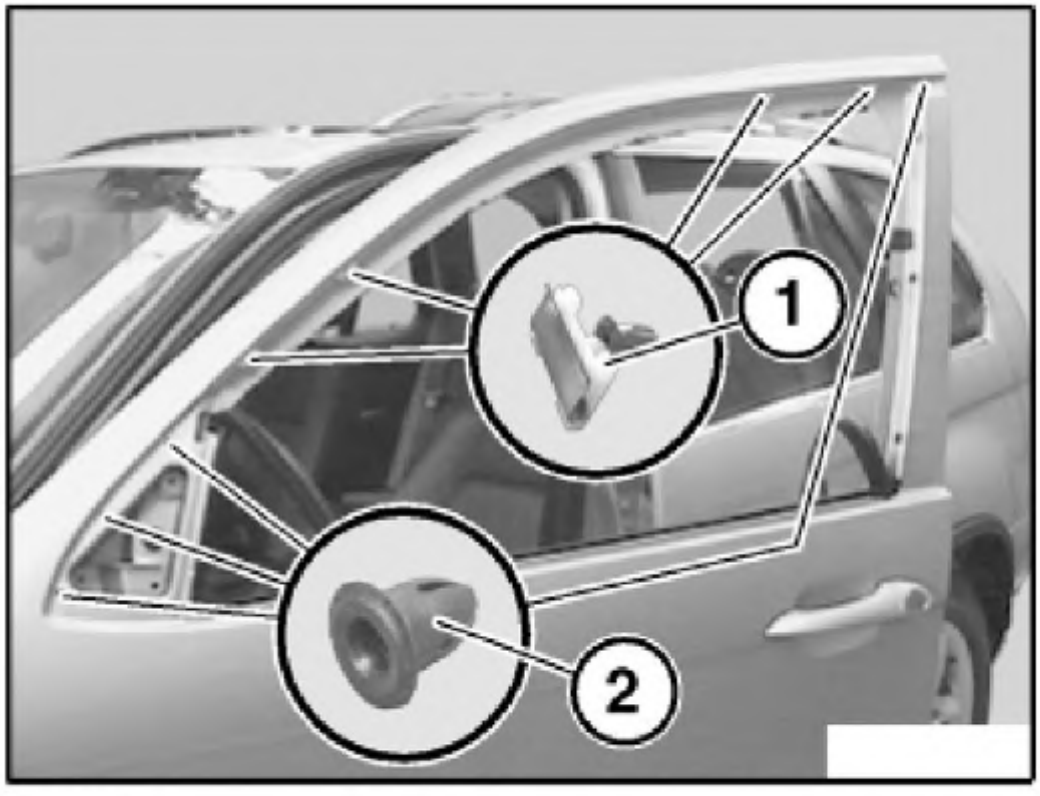


Fig. 280: Checking Faulty Clips And Grommets
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

If necessary, replace defective clip (1).

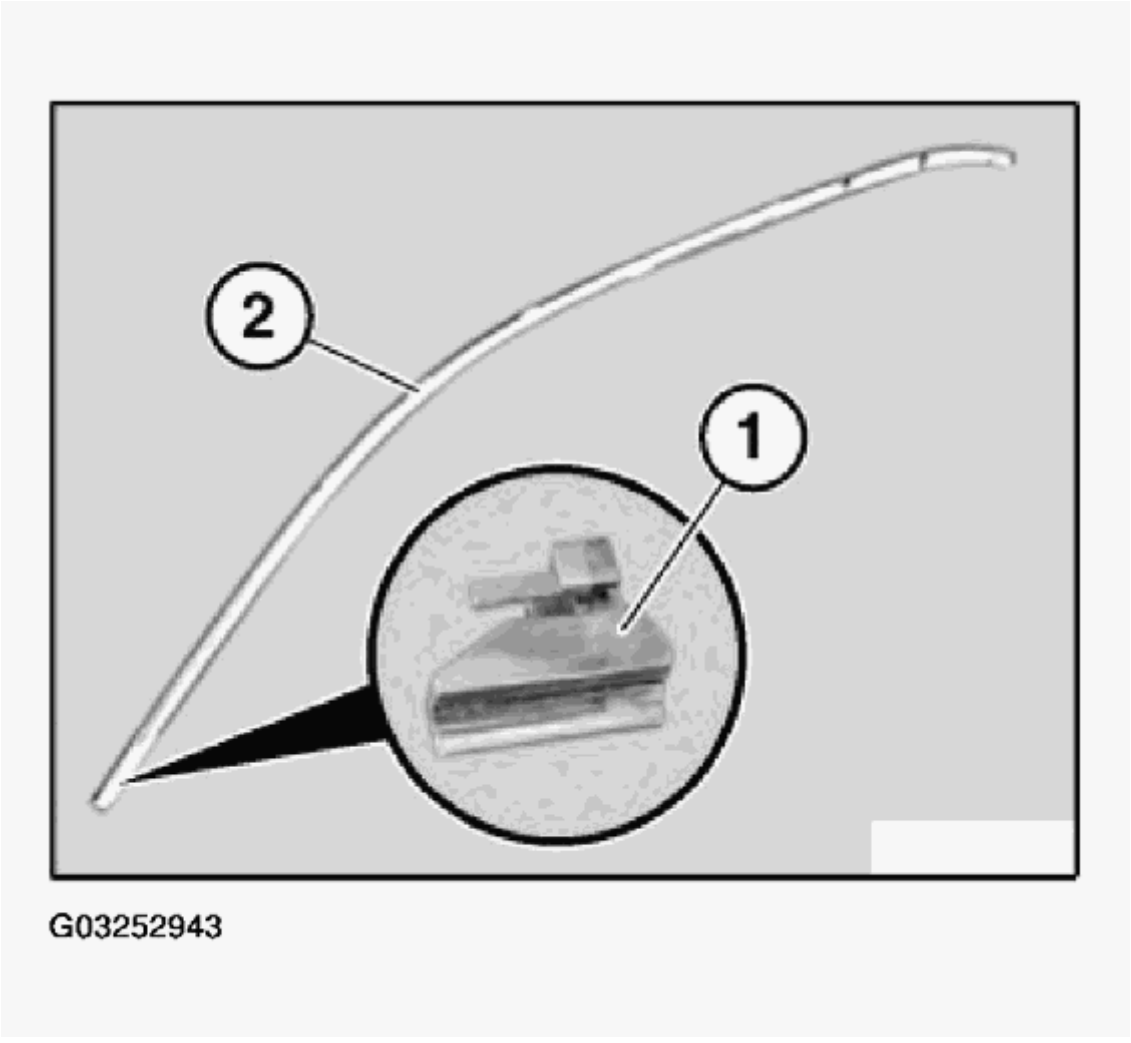


Fig. 281: Inspecting Clips
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

If necessary, replace defective clips (1).

Decorative strip (3) incorporates notches (2) for positioning of clips (1).

After installing clips (1), reinsert seal (4) in guide of decorative strip (3).

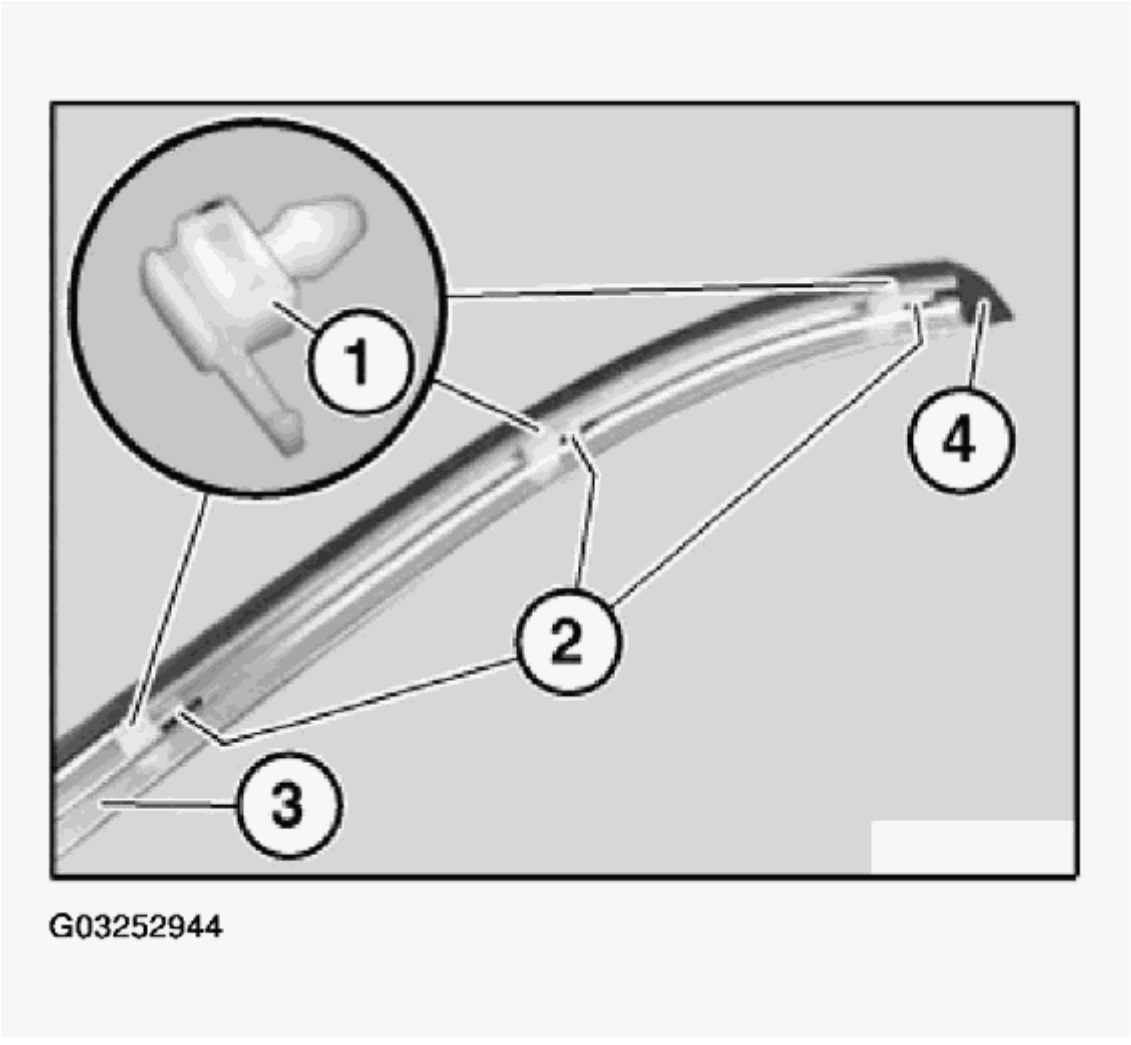


Fig. 282: Reinserting Seal In Guide Of Decorative Strip
Courtesy of BMW OF NORTH AMERICA, INC.

51 32 420 REMOVING AND INSTALLING/REPLACING FINISHER ON FRONT DOOR WINDOW FRAME, LEFT OR RIGHT

Remove window cavity cover strip on outside of front door. See **51 21 300 Removing And Installing/Replacing Window Cavity Cover Strip On Outside Of Front Door** .

Partially lever out cover (anti-trap protection) on door window frame at rear. **51 32 160 Removing And Installing/Replacing Cover (Anti-Trapping Protection) On Door Window Frame, Left Or Right** .

Open door window.

Partially detach rubber window seal (1) at rear.

Installation:

For installation, coat window rubber guide (1) with turpentine substitute (sourcing reference: BMW Parts).

Release screws (2).

Lever out finisher (3) and detach towards rear.

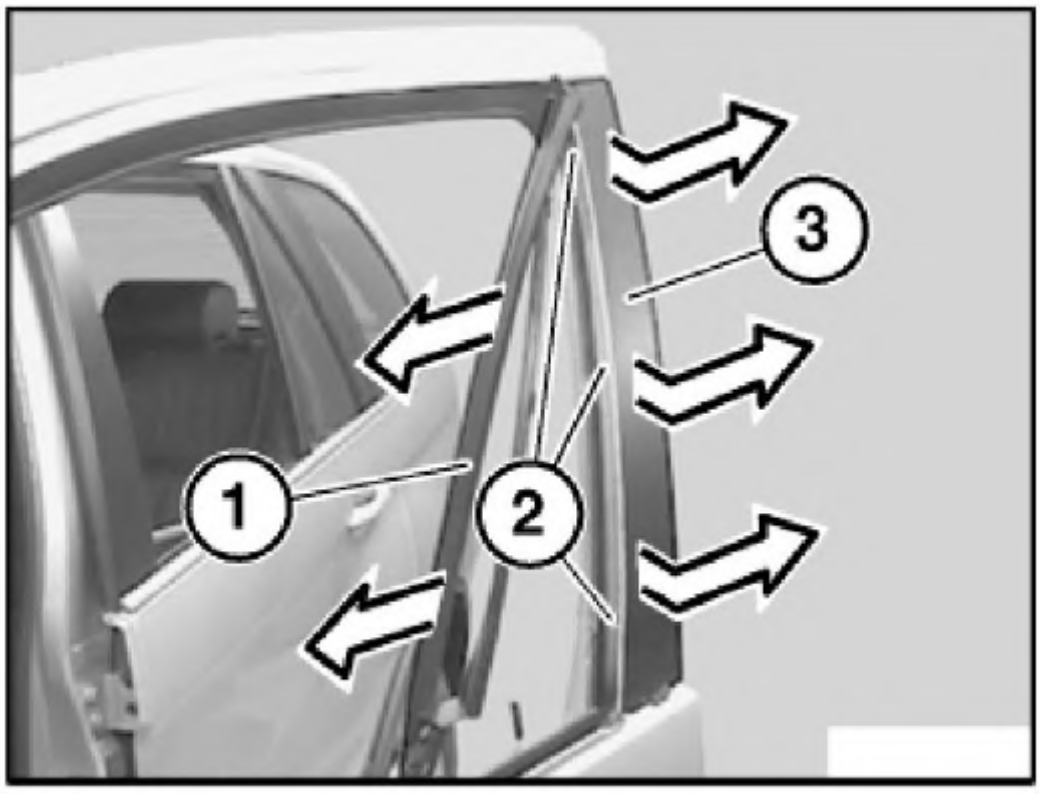


Fig. 283: Releasing Screws
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

If necessary, replace faulty plastic nuts (1).

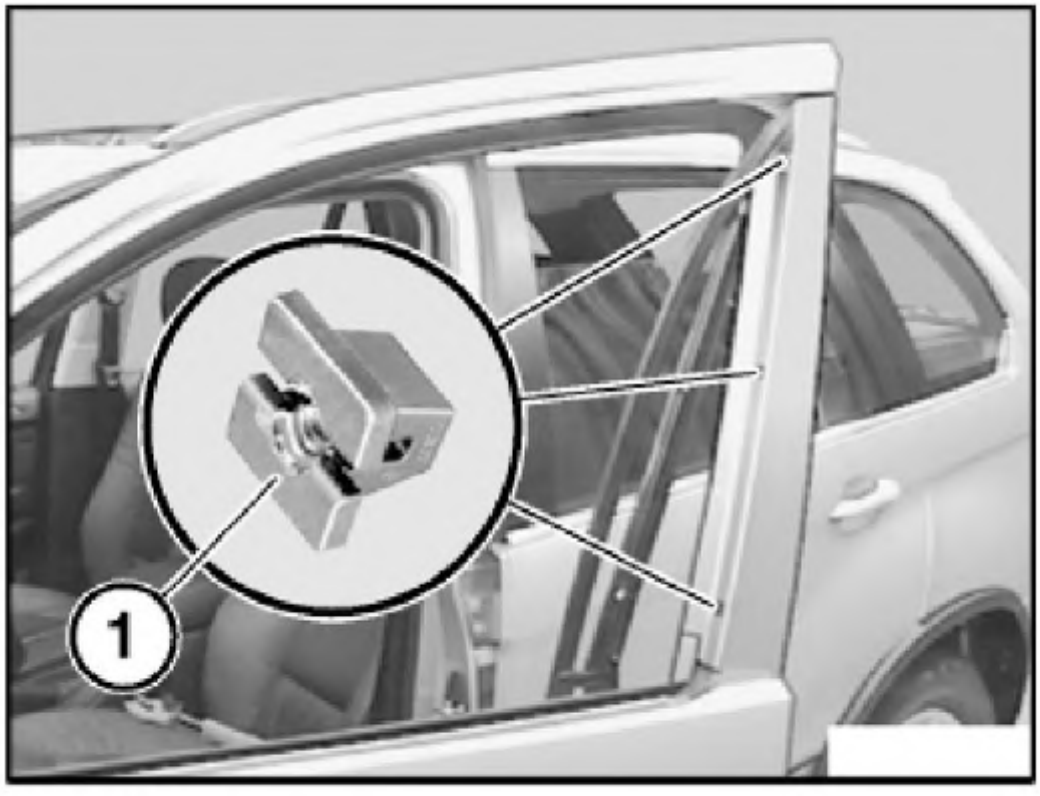


Fig. 284: Inspecting Plastic Nuts
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

If necessary, replace faulty clip (1) on finisher (2).

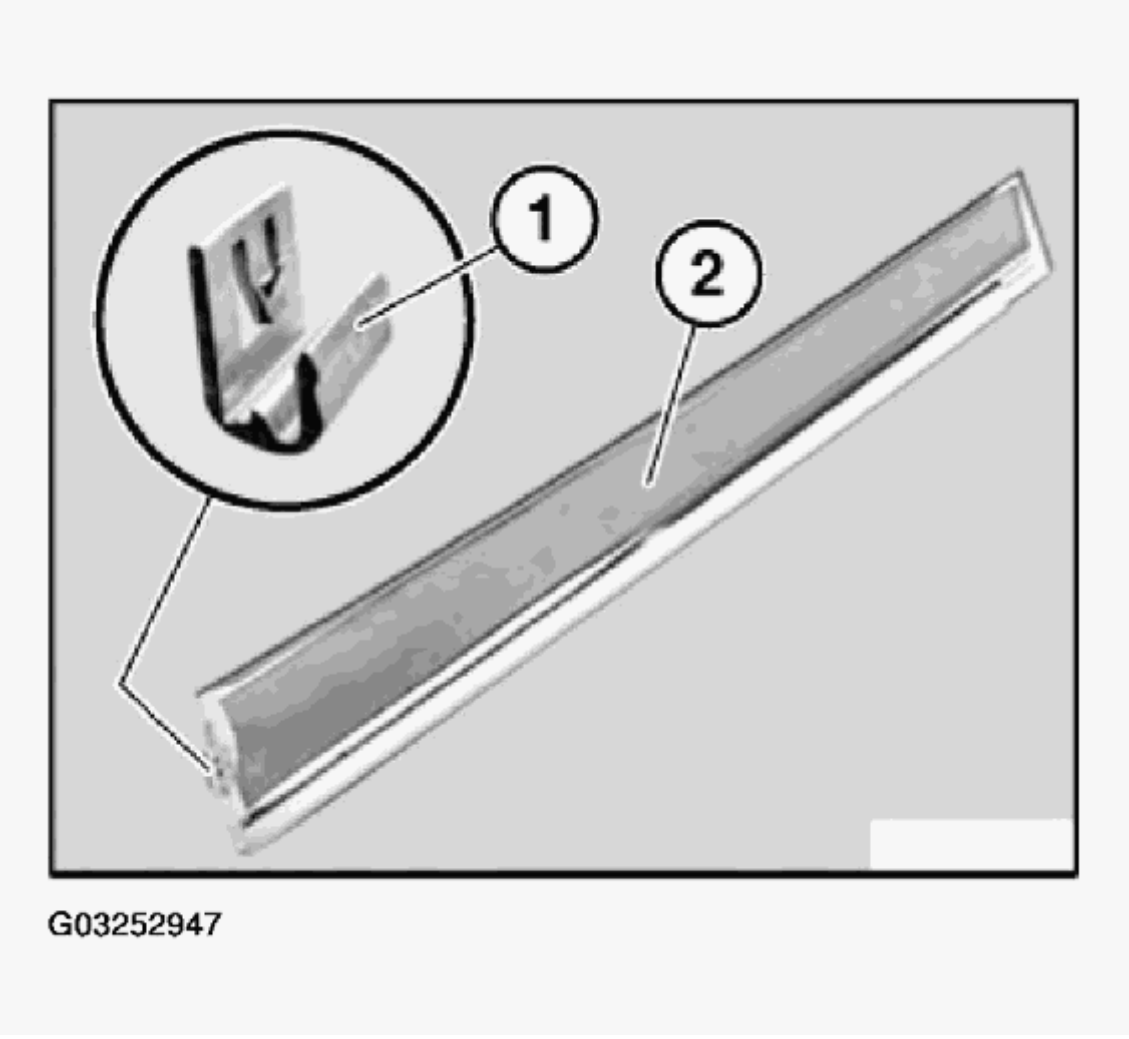


Fig. 285: Inspecting Faulty Clip On Finisher
Courtesy of BMW OF NORTH AMERICA, INC.

FRONT ELECTRICALLY OPERATED WINDOWS

51 33 000 REMOVING AND INSTALLING POWER WINDOW REGULATOR IN LEFT OR RIGHT FRONT DOOR

Remove door window glass. See **51 32 170 Removing And Installing/Replacing Door Window Glass, Front Left Or Right** .

Remove speaker in front door. See **65 12 000 REMOVING AND INSTALLING/REPLACING SPEAKER** .

Release nuts (1) and feed rear section (2) of window regulator out of front door.

Unhook cable (3) from clip (4).

Lever out foam (5) and release nut underneath.

Disconnect plug connection (6) if necessary.

Release nuts (7).

Installation:

Tightening torque, see 51 33 2AZ in **BODY EQUIPMENT - TIGHTENING TORQUES** .

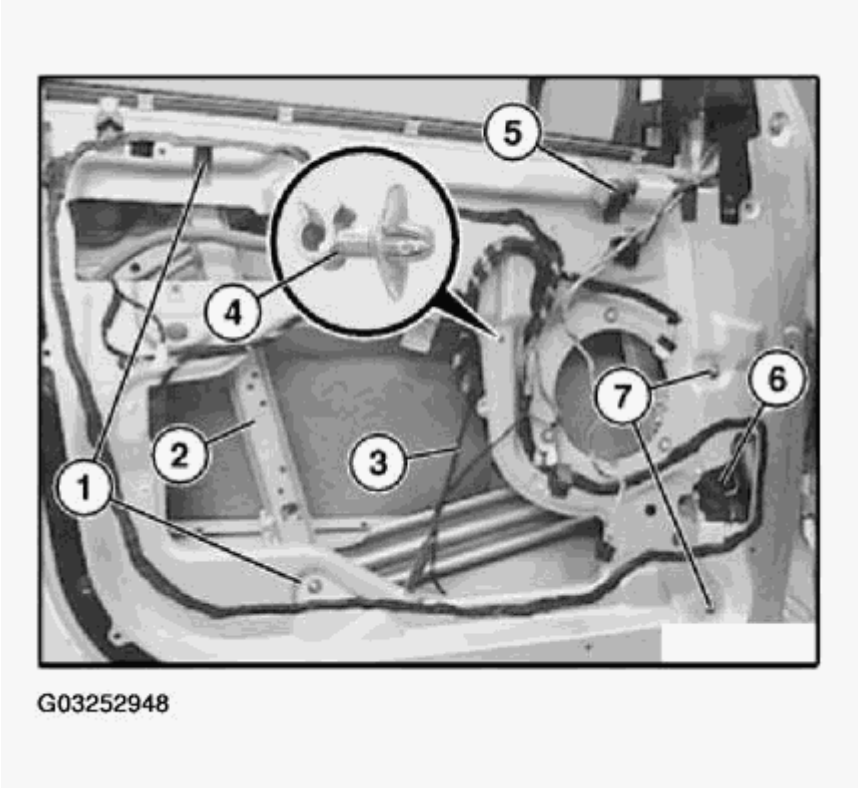


Fig. 286: Releasing Nuts And Feed Rear Section Of Window Regulator Out Of Front Door
Courtesy of BMW OF NORTH AMERICA, INC.

Feed rear section of window regulator (1) with drive mechanism (2) out of front door.

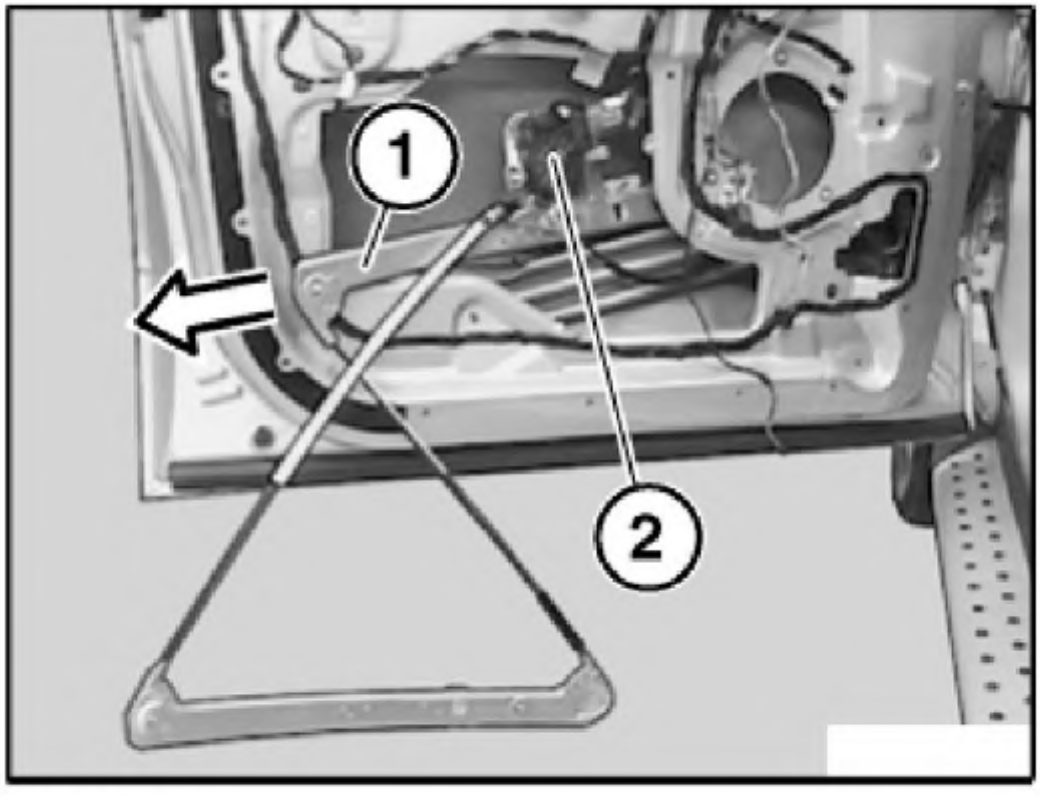


Fig. 287: Feeding Rear Section Of Window Regulator With Drive Mechanism Out Of Front Door
Courtesy of BMW OF NORTH AMERICA, INC.

Only replacement:

Release screws (1) and detach drive mechanism (2) from window regulator (3).

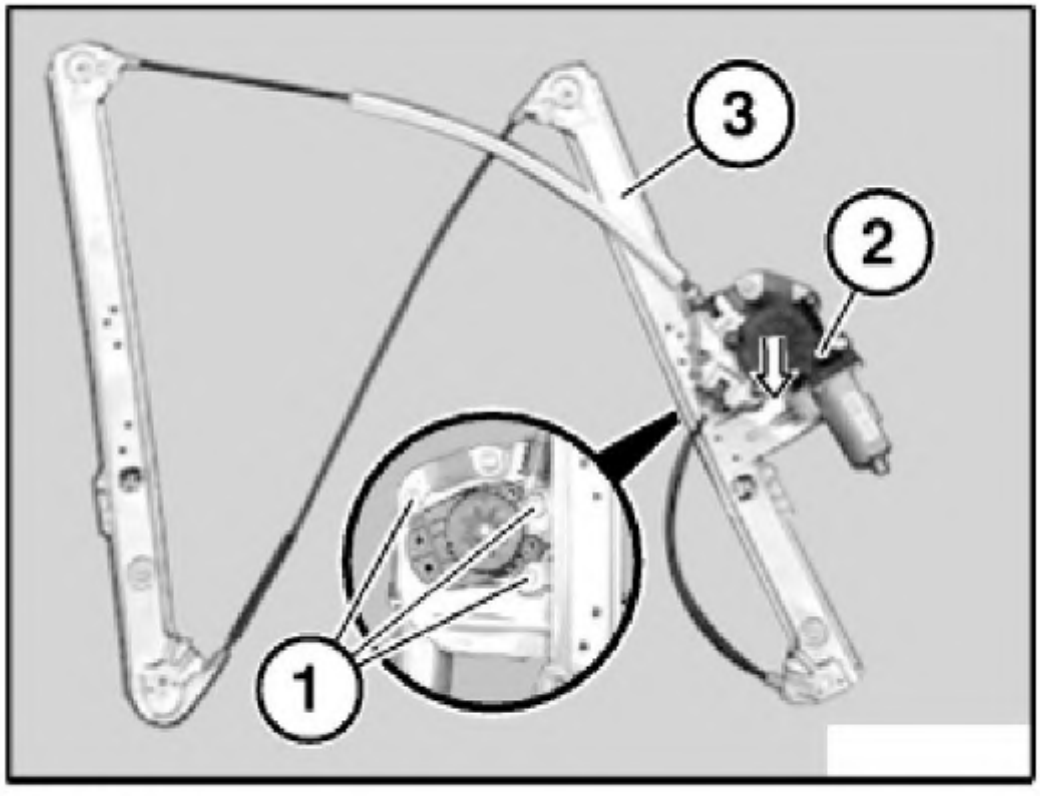


Fig. 288: Detaching Drive Mechanism From Window Regulator
Courtesy of BMW OF NORTH AMERICA, INC.

REAR MANUALLY OPERATED WINDOWS

51 34 ... REMOVING AND INSTALLING/REPLACING WINDOW GUIDE RAIL OF REAR DOOR, REAR LEFT OR RIGHT

Version with roller sun blind:

Remove roller sun blind on fixed door window. **51 16 400 Removing And Installing Or Replacing Sun Blind At Fixed Side Window Of Left Or Right Rear Door** .

Version without roller sun blind only:

Remove cover (anti-trap protection) on door window frame. **51 34 160 Removing And Installing/Replacing Cover (Anti-Trapping Protection) On Door Window Frame (Rear Door), Inside Left Or Right** .

Release screw (1).

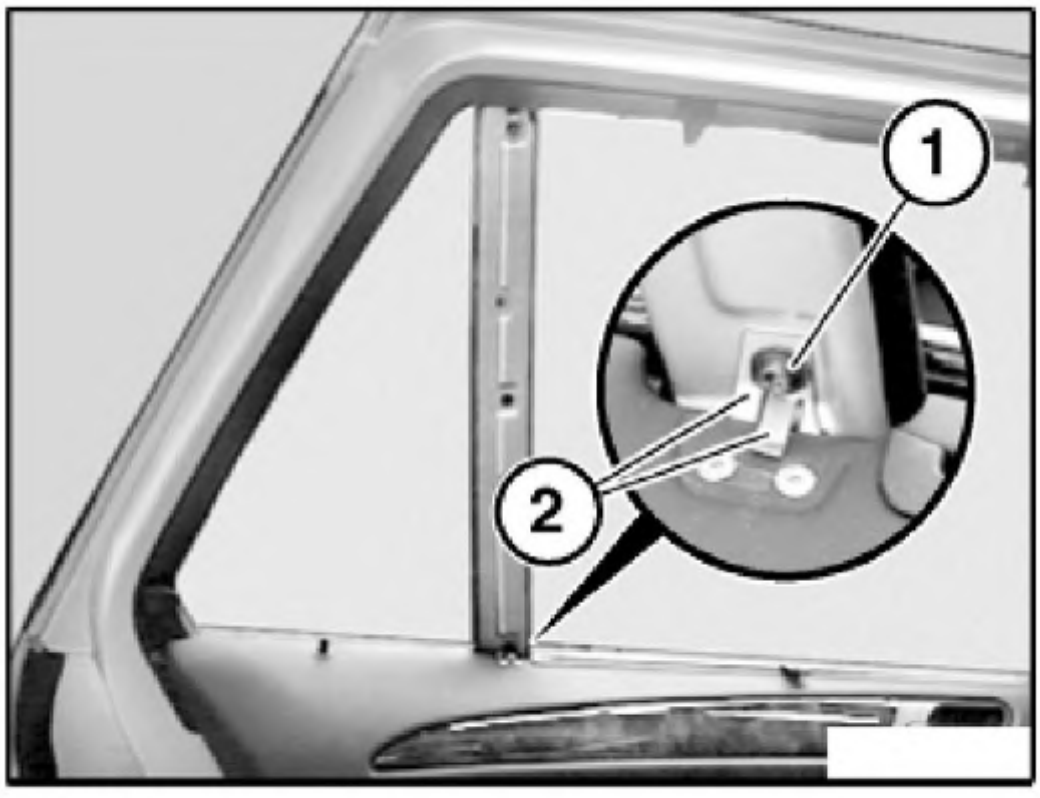


Fig. 289: Releasing Screw
Courtesy of BMW OF NORTH AMERICA, INC.

Version with roller sun blind:

Installation:

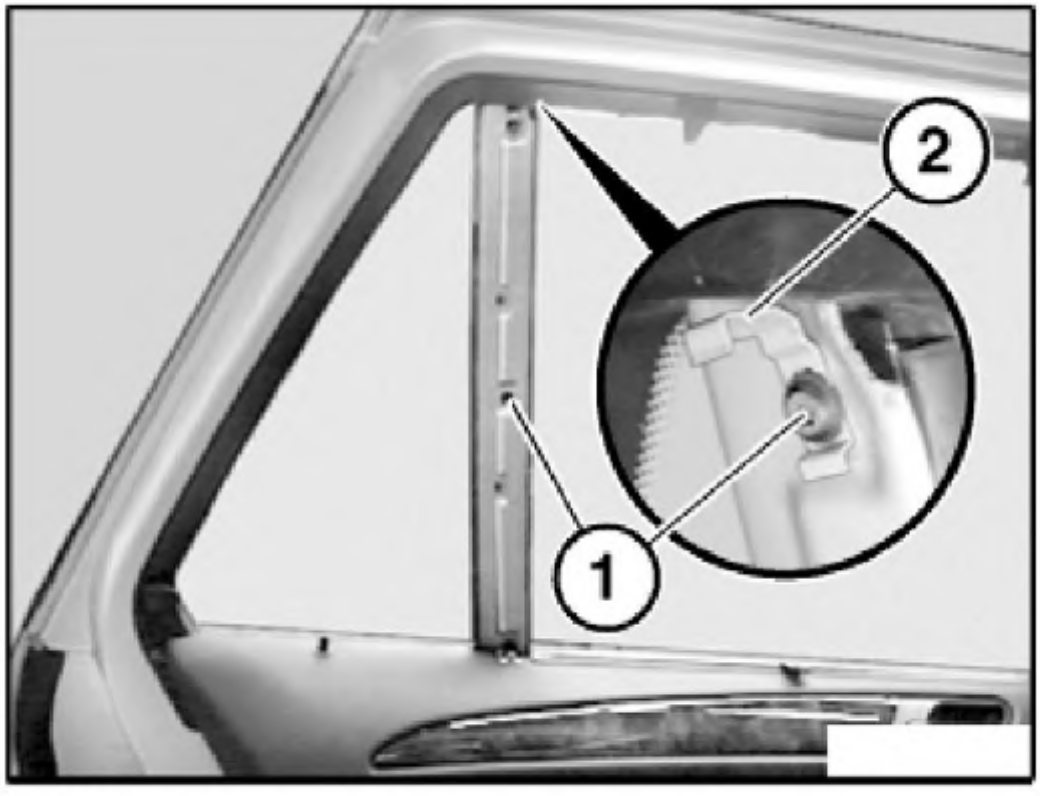
Holder (2) on door trim panel must not be damaged.

Release screws (1).

Version with roller sun blind:

Installation:

Remove holder (2) for roller sun blind.



G03252952

Fig. 290: Removing Holder For Roller Sun Blind
Courtesy of BMW OF NORTH AMERICA, INC.

Pull rubber guide (1) out of window guide rail (2).

Slide window guide rail (1) downwards until guide (3) is free and then pull out towards top.

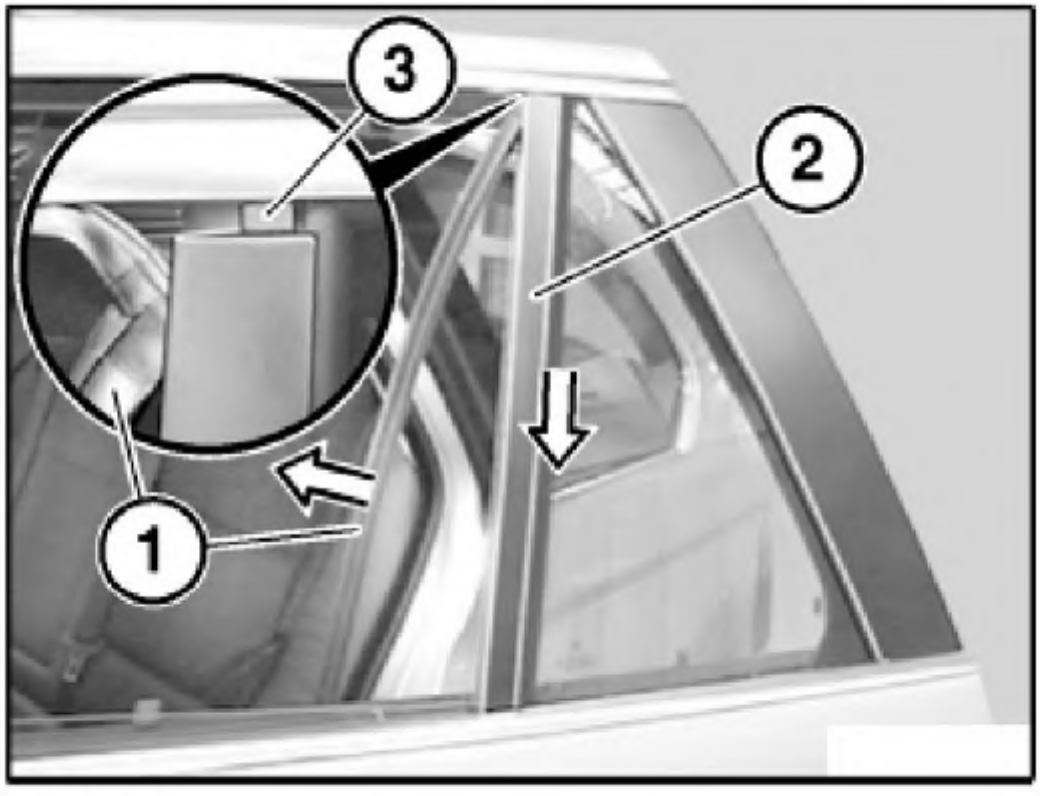


Fig. 291: Pulling Rubber Guide Out Of Window Guide Rail
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Threads (1) and guide (2) of window guide rail (3) must not be damaged.

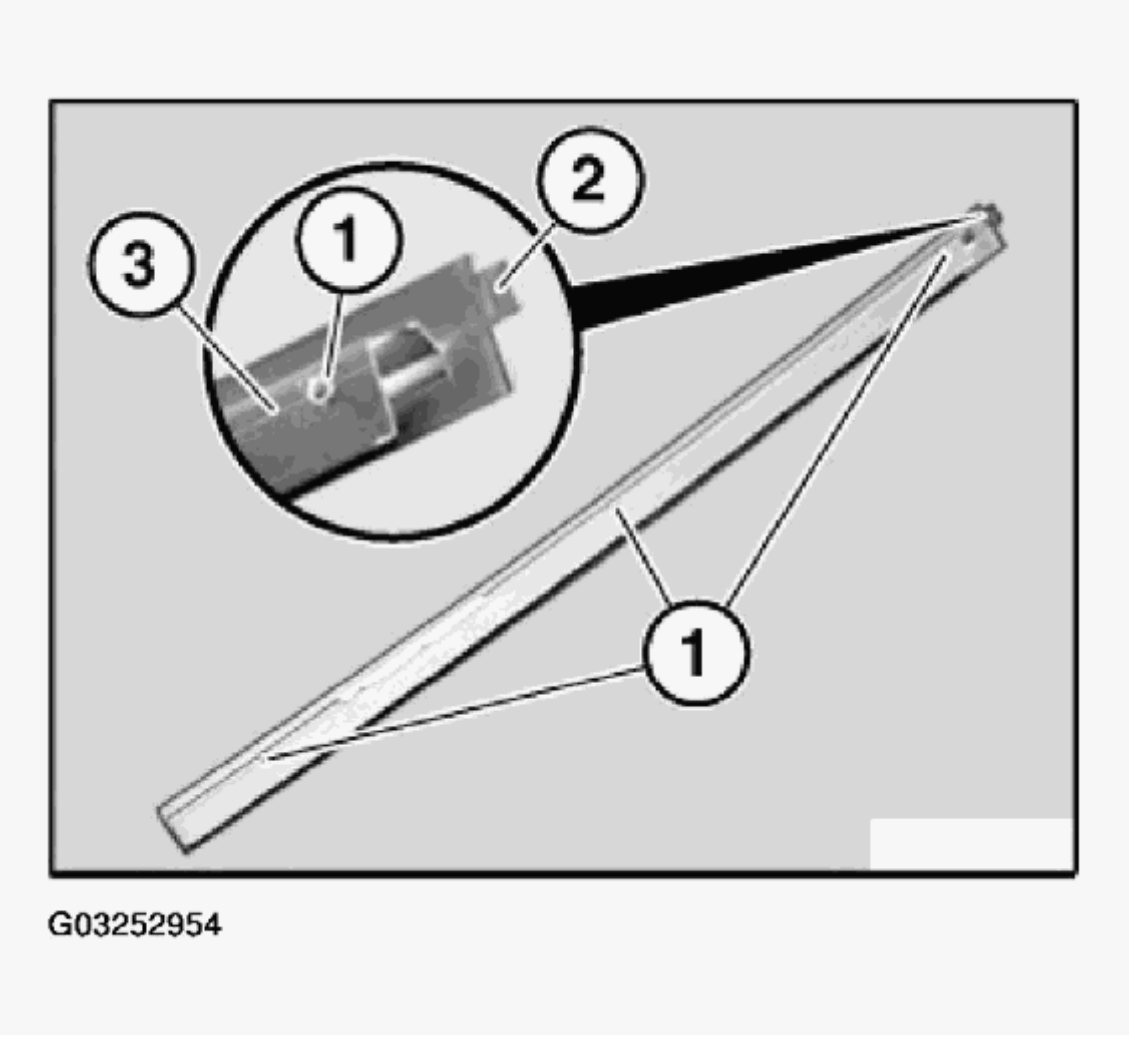


Fig. 292: Identifying Threads And Guide Of Window Guide Rail
Courtesy of BMW OF NORTH AMERICA, INC.

51 34 160 REMOVING AND INSTALLING/REPLACING COVER (ANTI-TRAPPING PROTECTION) ON DOOR WINDOW FRAME (REAR DOOR), INSIDE LEFT OR RIGHT

Remove rear door trim panel. See **51 42 000 Removing And Installing Rear Left Or Right Door Trim Panel** .

Carefully lever out clip (1) and lever out trim (2) in rear area.

Disconnect plug connection (3).

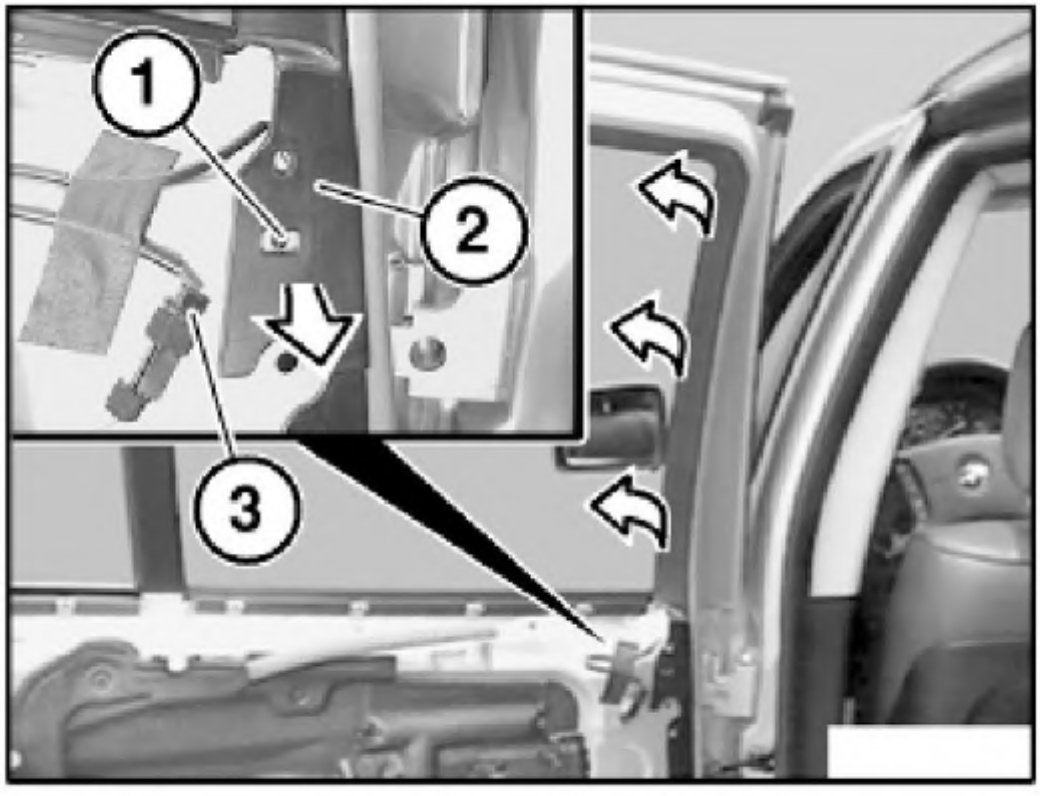


Fig. 293: Disconnecting Plug Connection
Courtesy of BMW OF NORTH AMERICA, INC.

Carefully lever out clip (1).

Lift out cover (1) from fixed door window.

NOTE: Do not tear off cover (1) in area (2).

Lift out and remove cover (2).

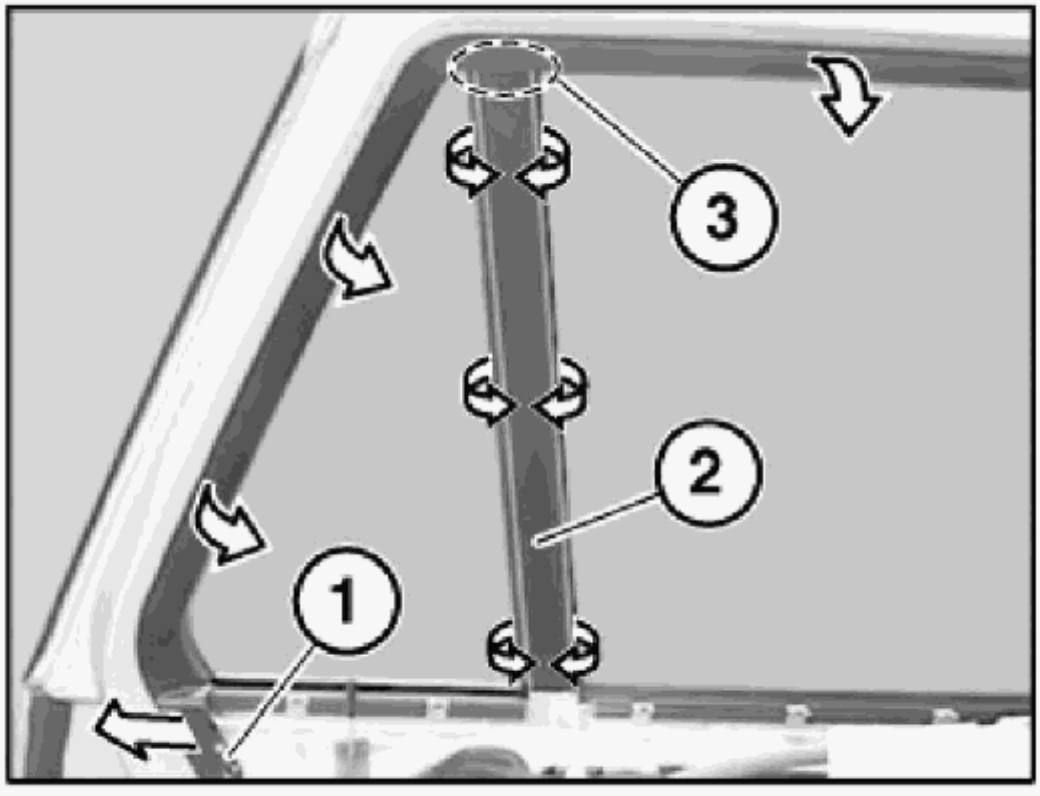


Fig. 294: Lifting Out Cover From Fixed Door Window
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

If applicable, replace defective clips (1).

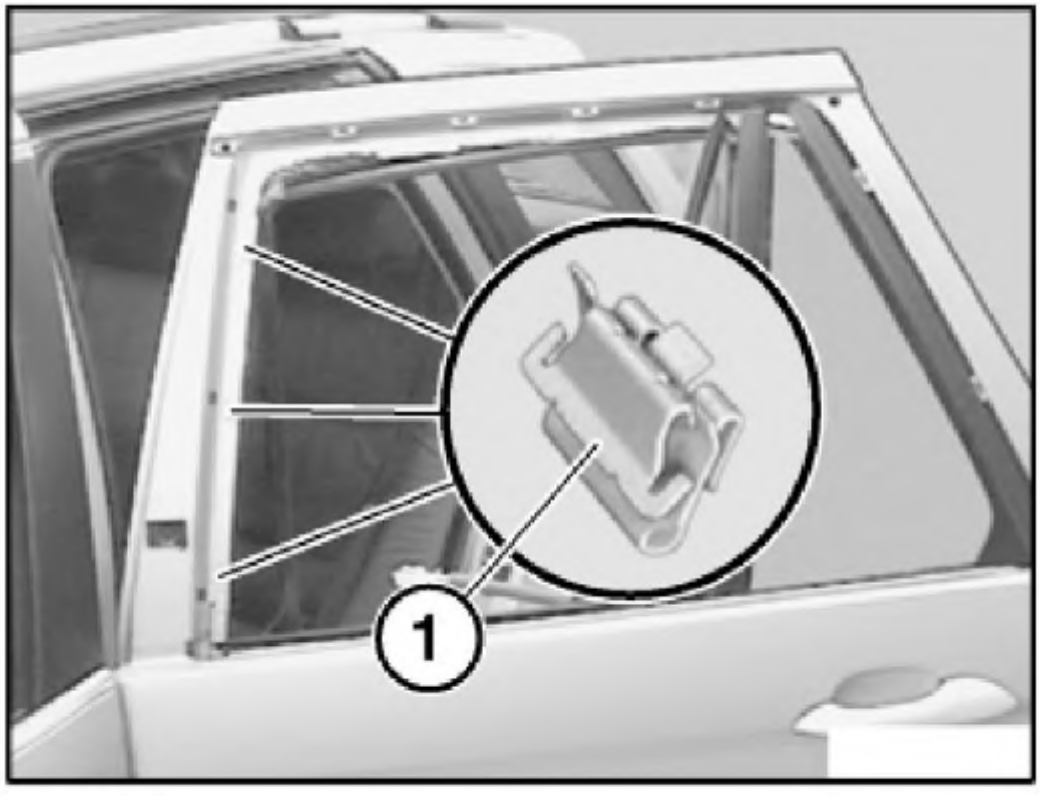


Fig. 295: Inspecting Clips
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Connection (1) of cover (2) must not be damaged.

If necessary, replace faulty clip (3).

Clips (4) must not be damaged.

Carry out function check.

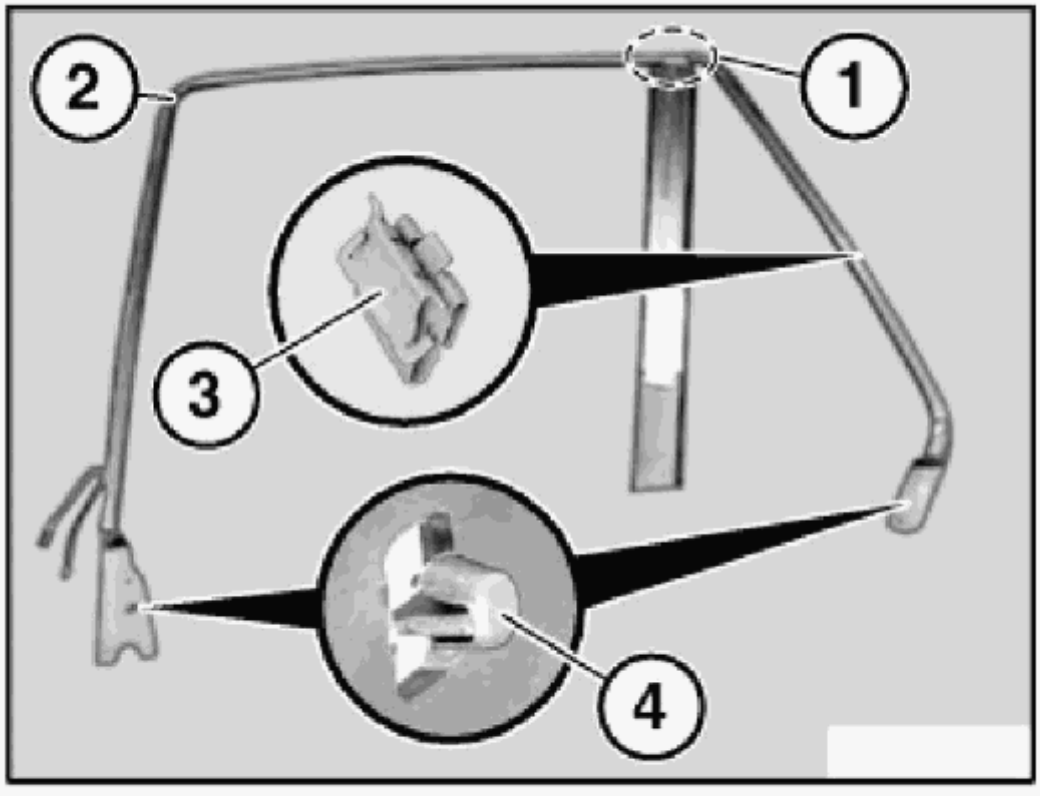


Fig. 296: Inspecting Connection Of Cover
Courtesy of BMW OF NORTH AMERICA, INC.

51 34 171 REPLACING REAR LEFT OR RIGHT DOOR WINDOW

Remove sound insulation on rear door. See **51 48 ... Removing And Installing/Replacing Sound Insulation In Rear Door, Left Or Right** .

NOTE: When removing the power window lift (51 37 000), do not remove the door window glass.

Only for removal and installation of door window glass:

If necessary, remove trim on window frame of rear door (front). **51 34 420 Removing And Installing/Replacing Trim On Window Frame Of Rear Door (Front), Left Or Right** .

Open door window glass to distance (A).

A approx. 85 mm

CAUTION: Disconnect battery negative lead.

Loosen bolt (1).

NOTE: When removing the power window lift (51 37 000), do not remove the door window glass.

If necessary, stow door window glass towards bottom in rear door.

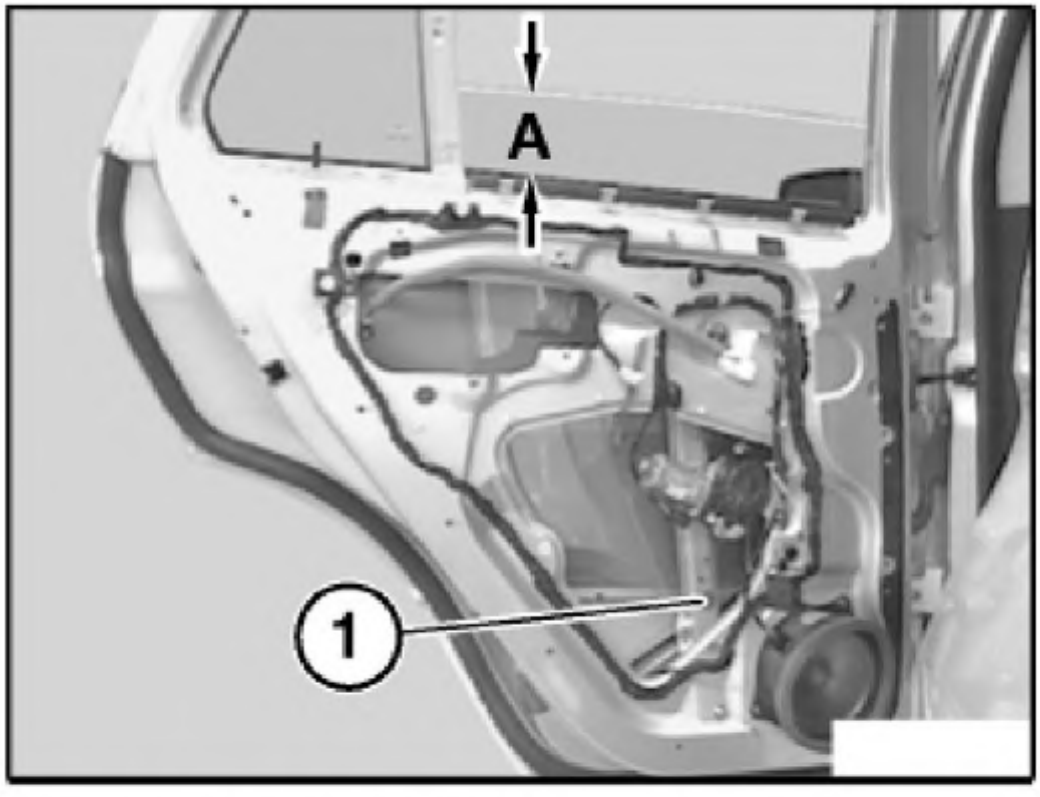


Fig. 297: Opening Door Window Glass To Distance (A)
Courtesy of BMW OF NORTH AMERICA, INC.

After removing or replacing door window glass:

Remove door window glass towards top.

Installation:

Each time the door window glass is removed or replaced, the holder (2) must be replaced.

If necessary, fit new screw (1) and nut (3) on door window glass (4).

NOTE: Door window glass does not need to be adjusted.

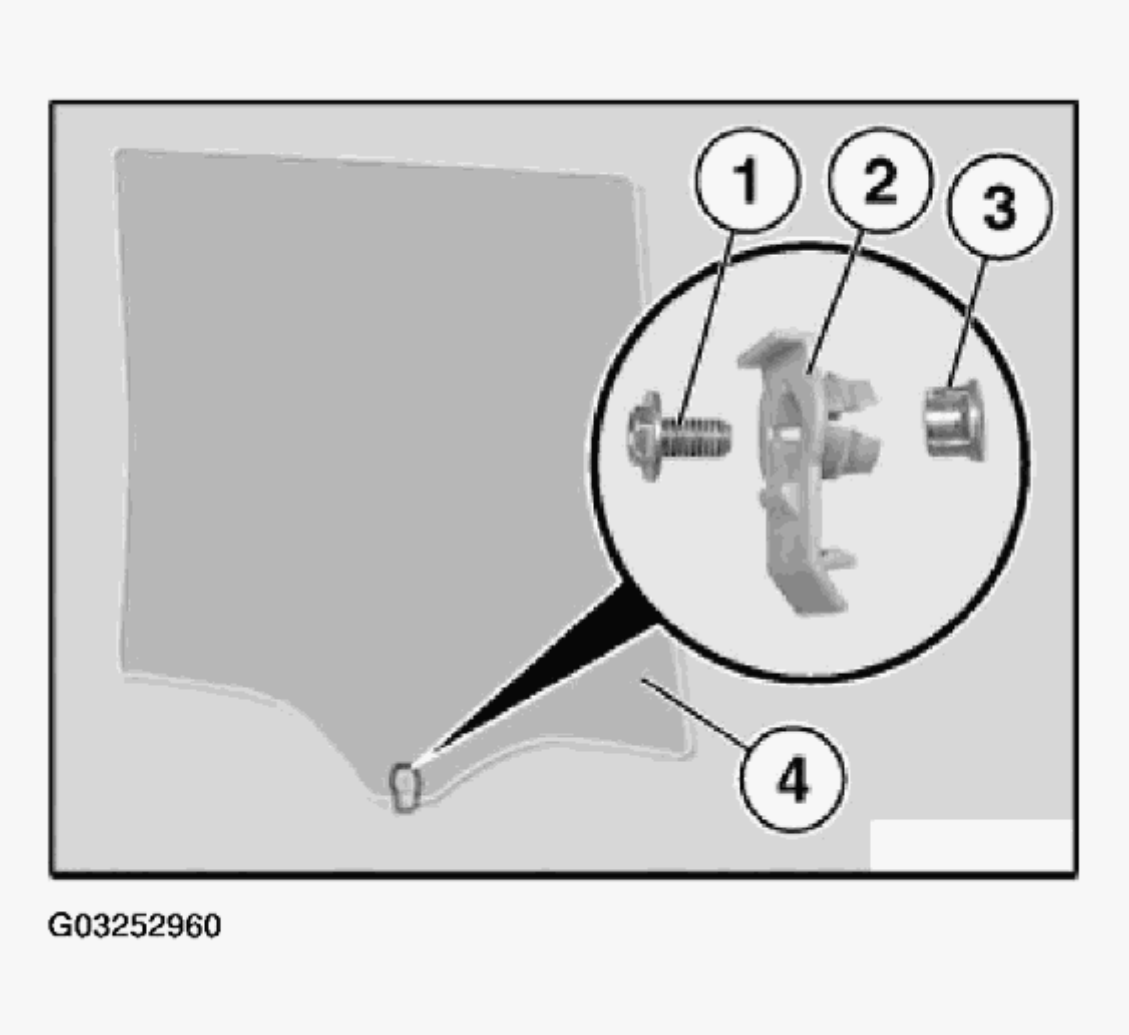


Fig. 298: Fitting Screw And Nut On Door Window Glass
Courtesy of BMW OF NORTH AMERICA, INC.

51 34 191 REPLACING LEFT OR RIGHT FIXED DOOR WINDOW IN REAR WINDOW FRAME

IMPORTANT: The 51 31 ... Instructions On Gluing Windscreen serve as the basis for these repair instructions and must be followed without fail.

51 34 211 REPLACING RUBBER GUIDE FOR REAR LEFT OR RIGHT DOOR WINDOW

Remove window cavity cover strip on outside of rear door. See **51 22 300 Removing And Installing/Replacing Window Cavity Cover Strip On Rear Door On Left Or Right** .

Remove cover (anti-trap protection) on inside of door window frame. See **51 34 160 Removing And Installing/Replacing Cover (Anti-Trapping Protection) On Door Window Frame (Rear Door), Inside Left Or Right.**

Remove rubber guide (1).

Installation:

For installation, coat window cavity cover strip (1) with turpentine substitute.

Close door window glass a little.

Push rubber guide (1) onto door window glass and into window guide.

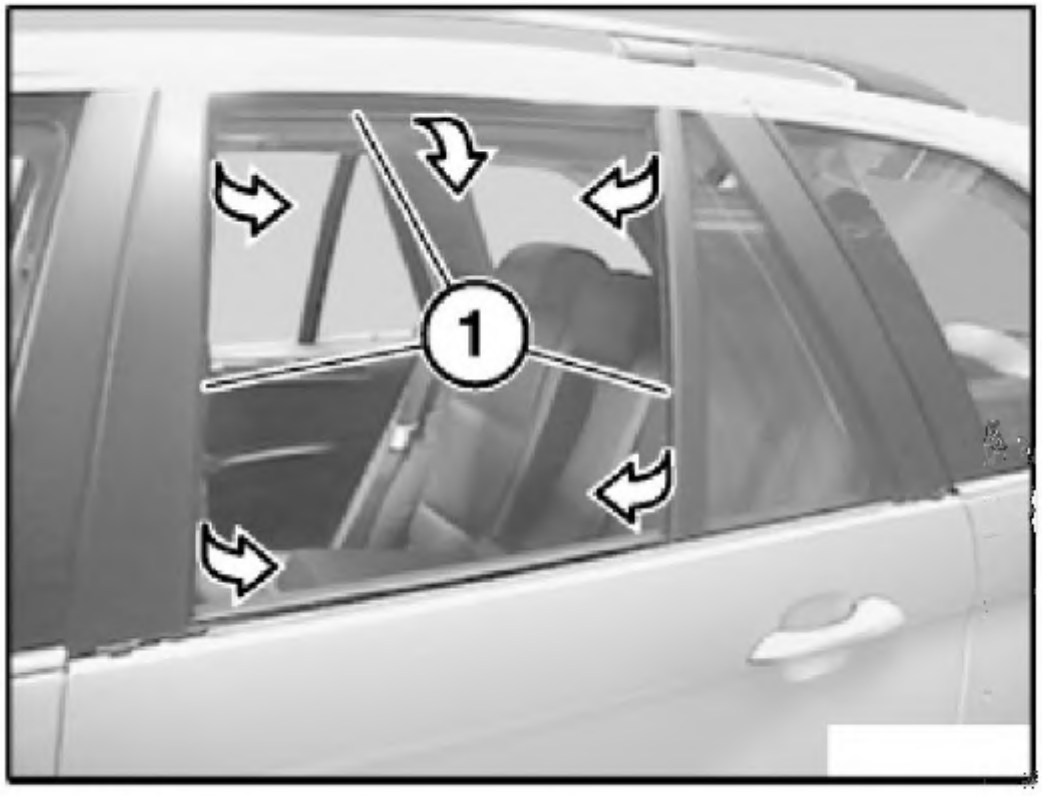


Fig. 299: Removing Rubber Guide
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Rubber guide (1) must not be damaged in corners (2).

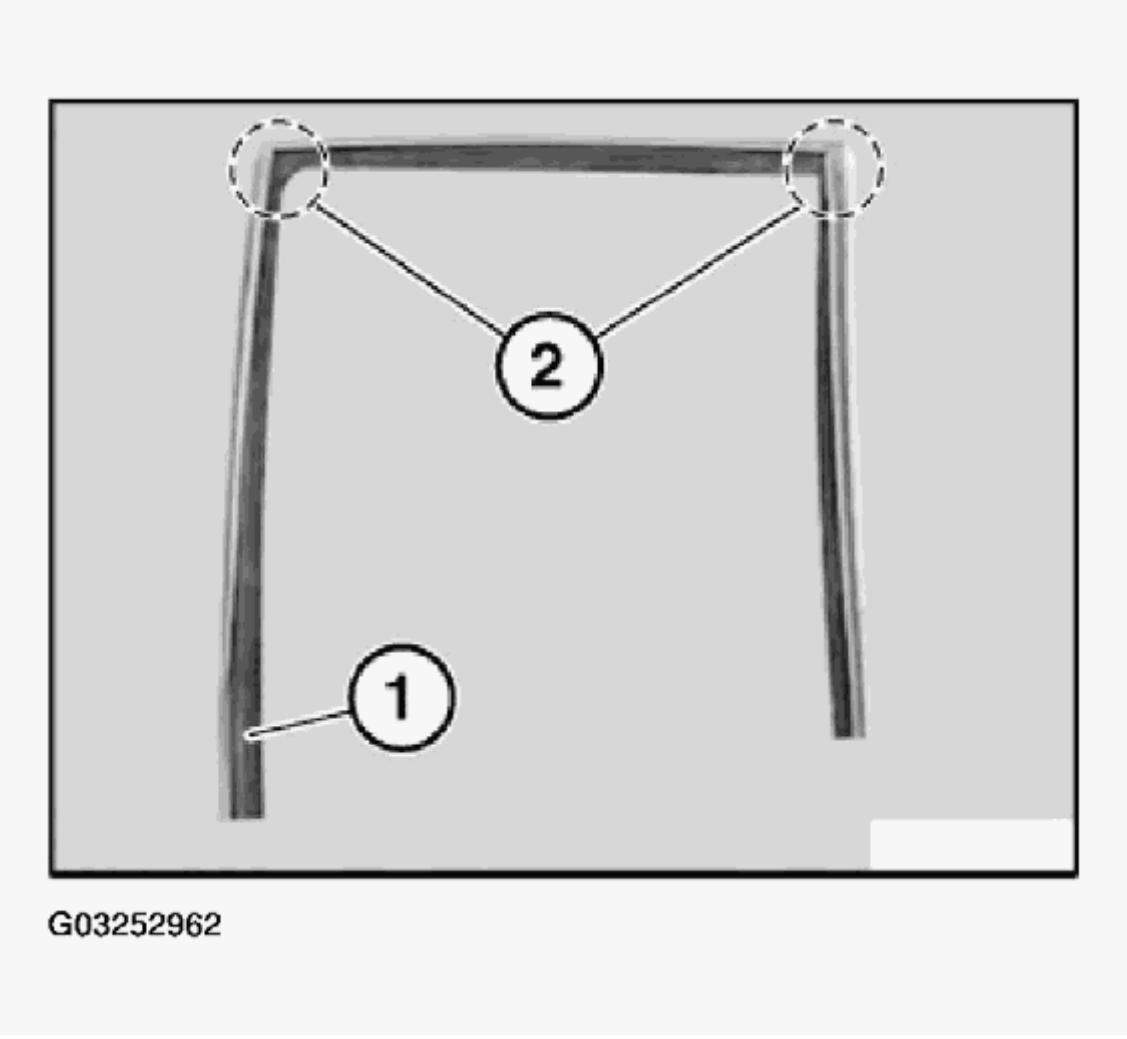


Fig. 300: Inspecting Rubber Guide
Courtesy of BMW OF NORTH AMERICA, INC.

51 34 380 REMOVING AND INSTALLING/REPLACING DECORATIVE STRIP ON REAR DOOR (TOP), LEFT OR RIGHT

Special Tools Required

- 00 9 317

Removal

Remove trim on window frame of rear door (front). See **51 34 420 Removing And Installing/Replacing Trim On Window Frame Of Rear Door (Front), Left Or Right** .

Remove trim on window frame of rear door (rear). See **51 22 300 Removing And Installing/Replacing Window Cavity Cover Strip On Rear Door On Left Or Right** .

Pull out window rubber guide (1) in upper area.

Unclip outer clips (2) with special tool 00 9 317 (trim panel wedge).

Detach decorative strip (4) outwards from clips (3).

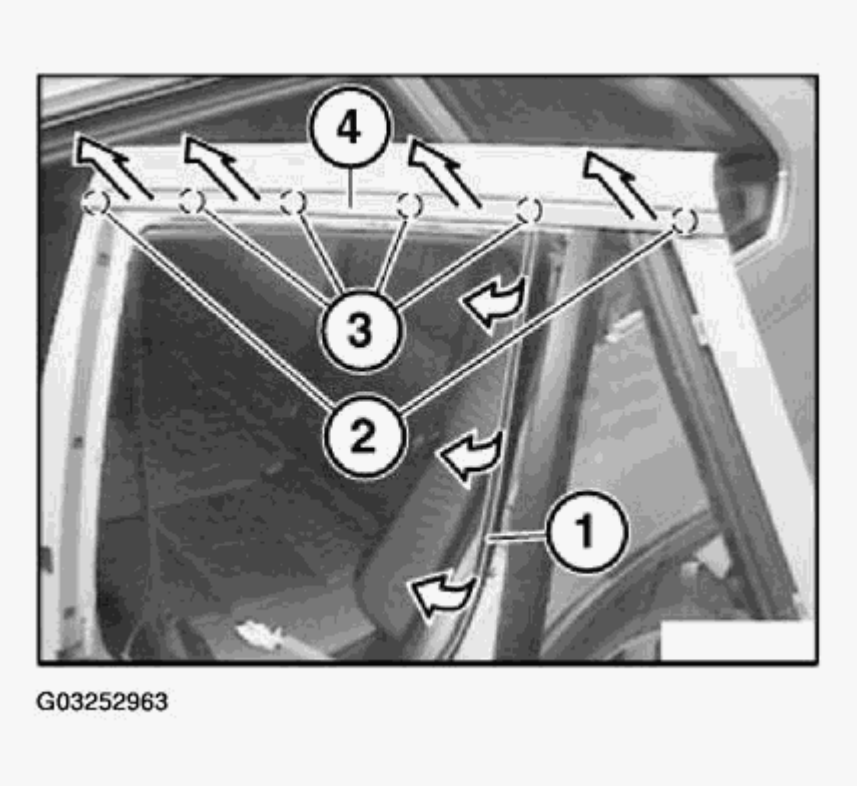


Fig. 301: Pulling Out Window Rubber Guide In Upper Area
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

If necessary, replace faulty clips (1) on decorative strip (2).

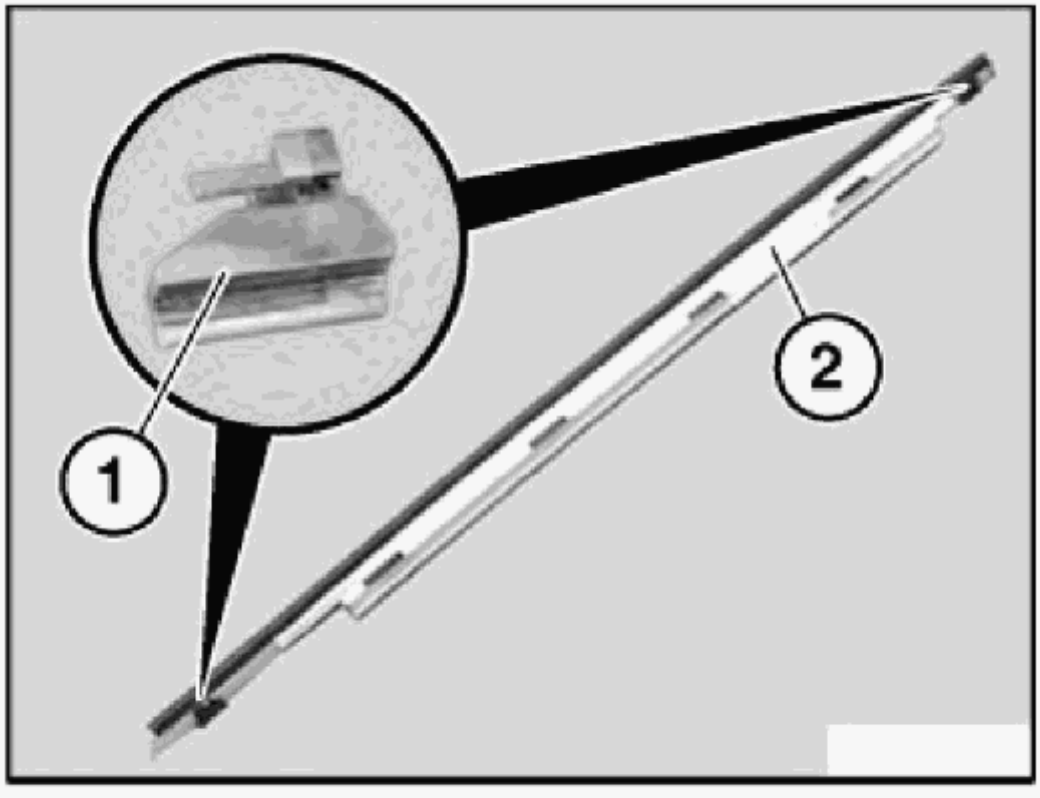


Fig. 302: Inspecting Faulty Clips On Decorative Strip
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

If necessary, replace faulty clips (1) and grommets (2).



Fig. 303: Inspecting Clips And Grommets
Courtesy of BMW OF NORTH AMERICA, INC.

51 34 420 REMOVING AND INSTALLING/REPLACING TRIM ON WINDOW FRAME OF REAR DOOR (FRONT), LEFT OR RIGHT

Open door window.

Remove rear door trim panel. See **51 42 000 Removing And Installing Rear Left Or Right Door Trim Panel** .

Remove window cavity cover strip on outside of rear door. See **51 22 300 Removing And Installing/Replacing Window Cavity Cover Strip On Rear Door On Left Or Right** .

Pull out window rubber guide in front area.

Carefully pull out clip (1) and lever out trim (2) in front area.

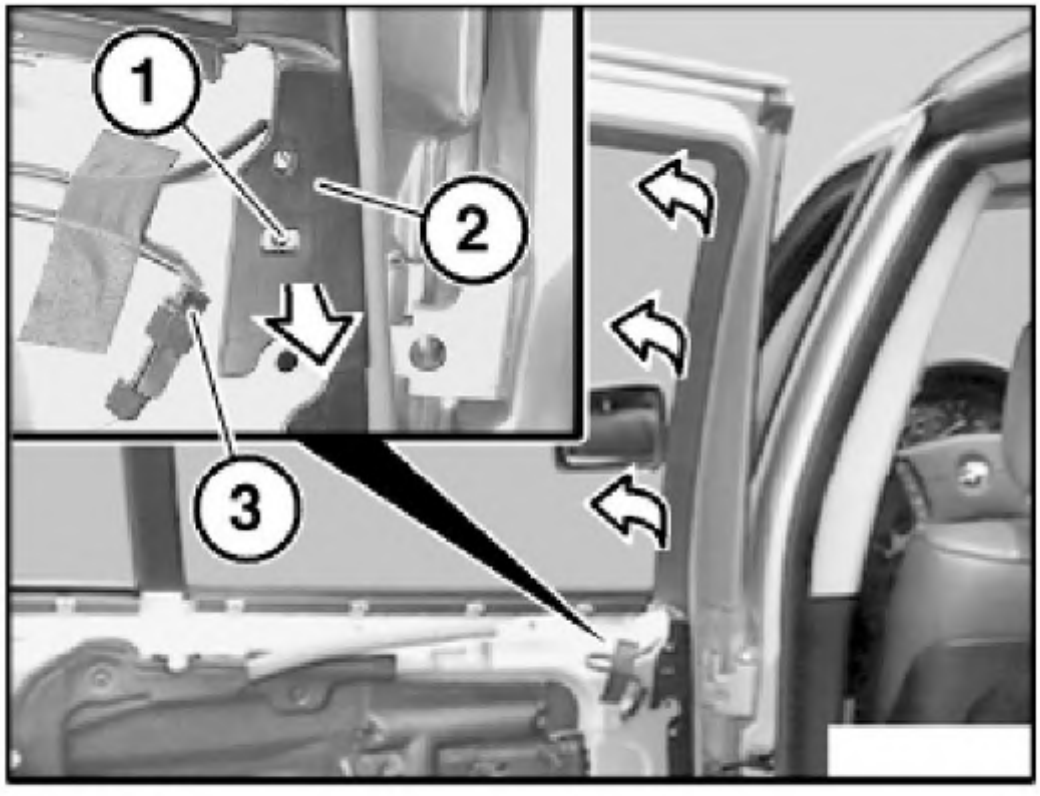


Fig. 304: Pulling Out Clip And Lever Out Trim In Front Area
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

If applicable, replace defective clips (1).

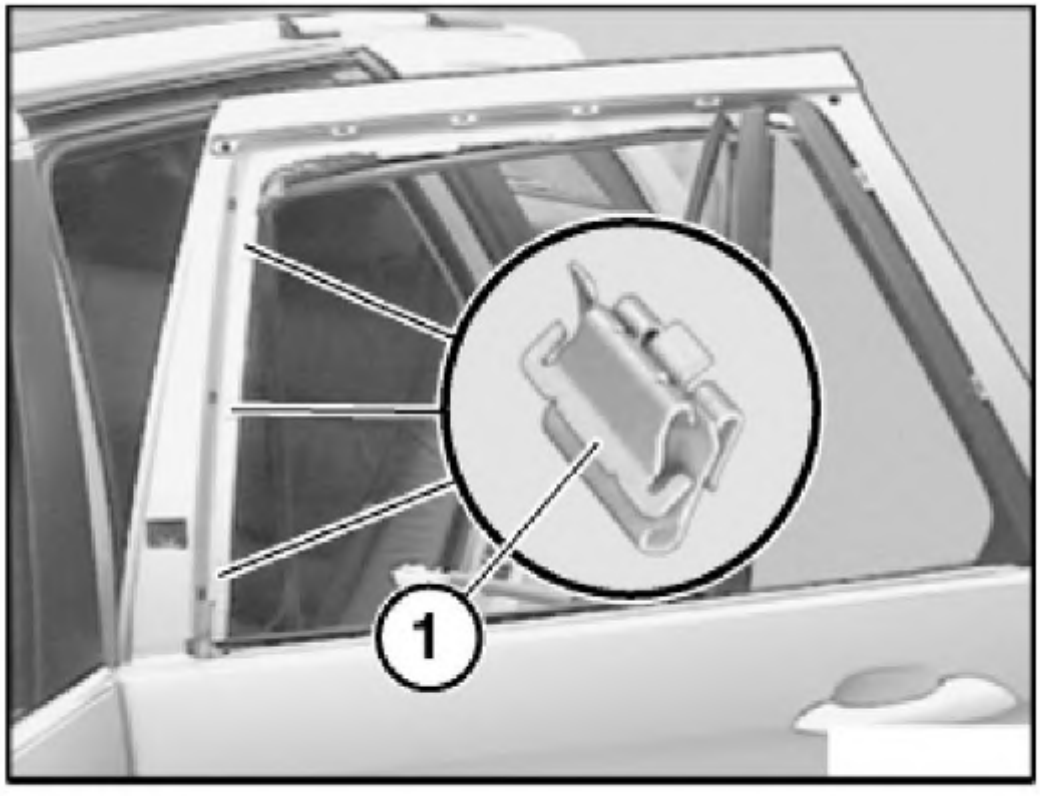


Fig. 305: Inspecting Clips
Courtesy of BMW OF NORTH AMERICA, INC.

Release expansion rivet (1) on seal (2).

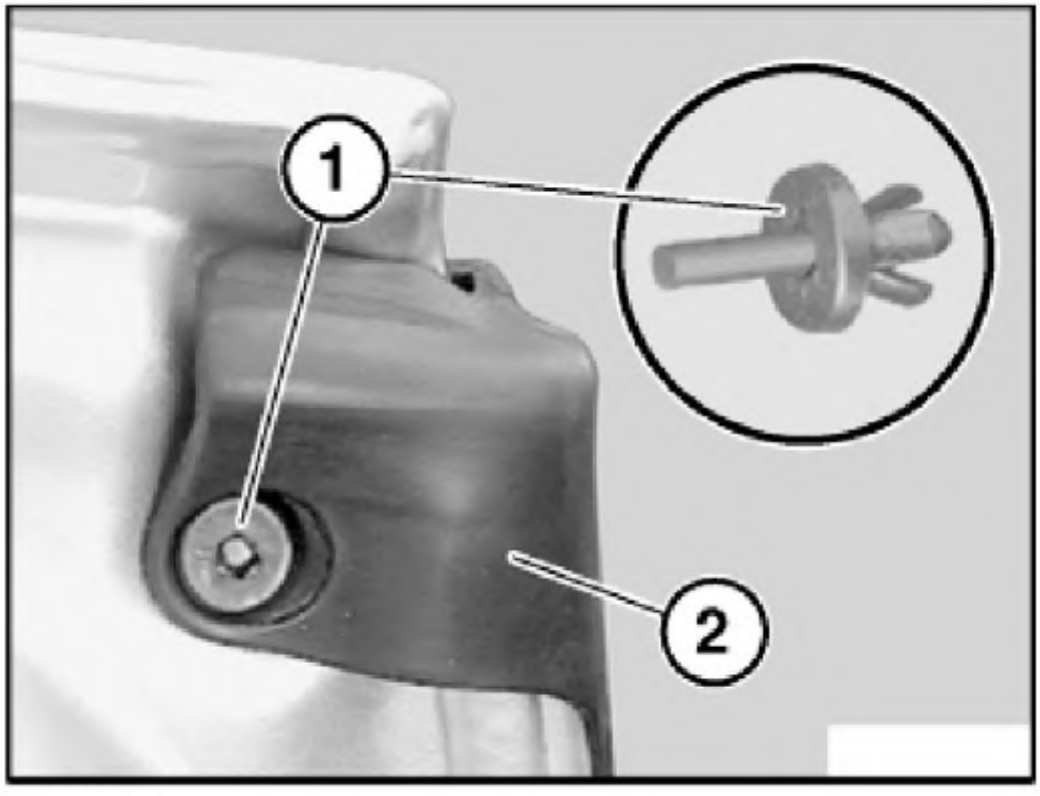


Fig. 306: Releasing Expansion Rivet On Seal
Courtesy of BMW OF NORTH AMERICA, INC.

Release screws (1) and detach trim (2).

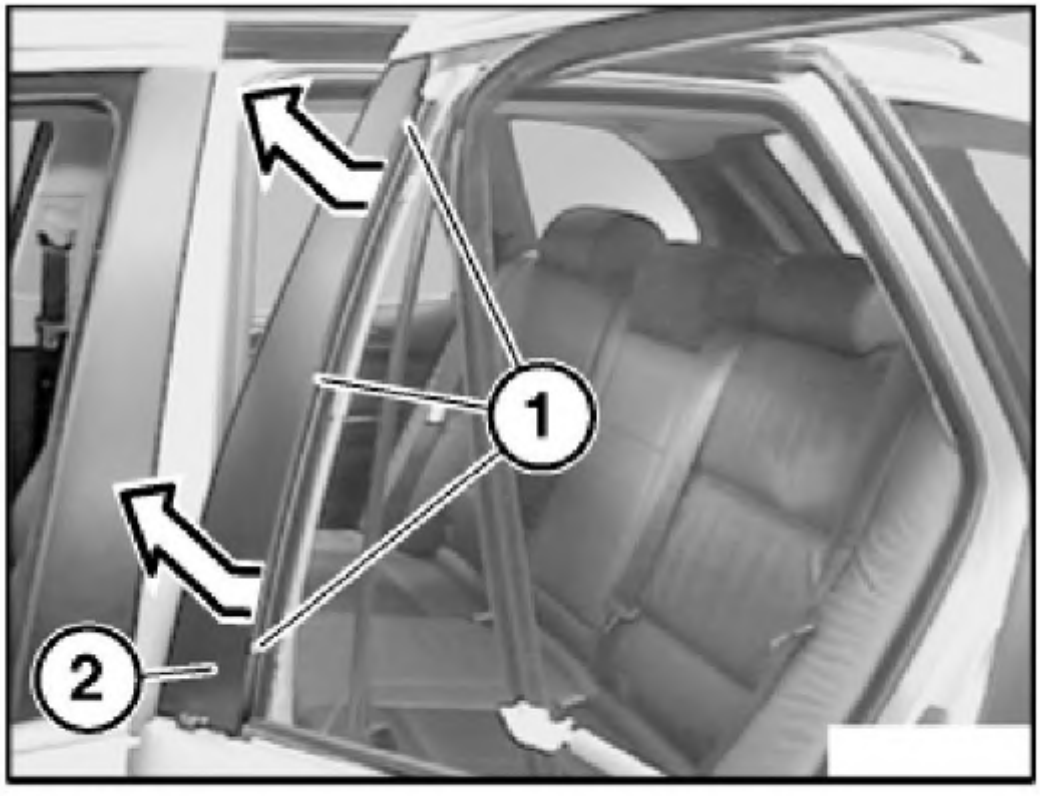


Fig. 307: Releasing Screws And Detach Trim
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

If necessary, replace faulty plastic nuts (1).

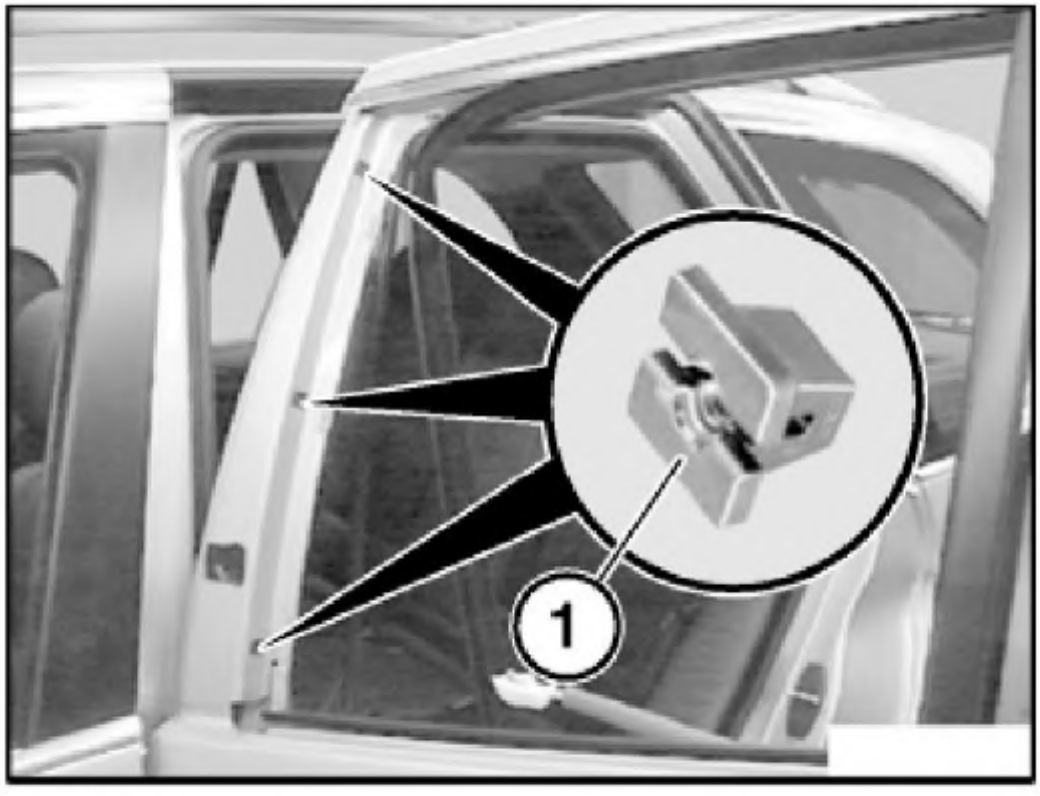
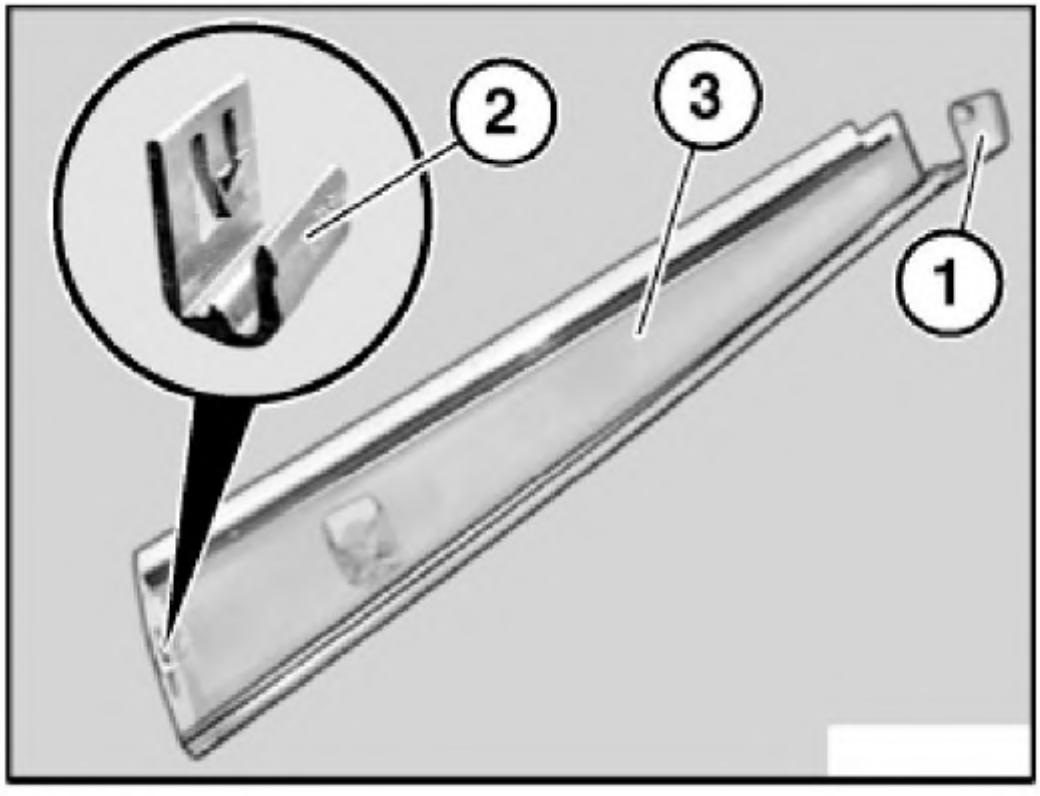


Fig. 308: Inspecting Plastic Nuts
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Seal (1) must not be damaged.

If necessary, replace faulty clip (2) on trim (3).



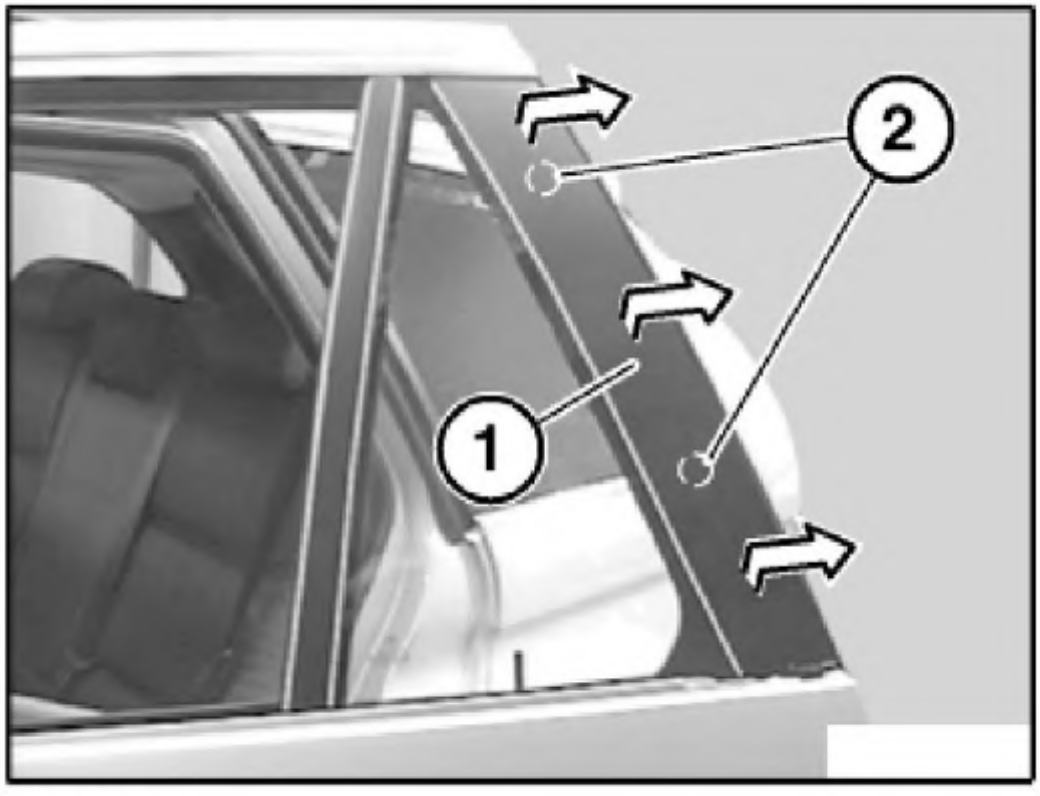
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Fig. 309: Inspecting Clip On Trim
Courtesy of BMW OF NORTH AMERICA, INC.

51 34 425 REMOVING AND INSTALLING/REPLACING TRIM ON WINDOW FRAME OF REAR DOOR, REAR LEFT OR RIGHT

Remove window cavity covering strip on outside. See **51 22 300 Removing And Installing/Replacing Window Cavity Cover Strip On Rear Door On Left Or Right** .

Unclip trim (1) from clips (2) and detach towards rear.



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Fig. 310: Uncliping Trim From Clips
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Retainers (1) must not be damaged.

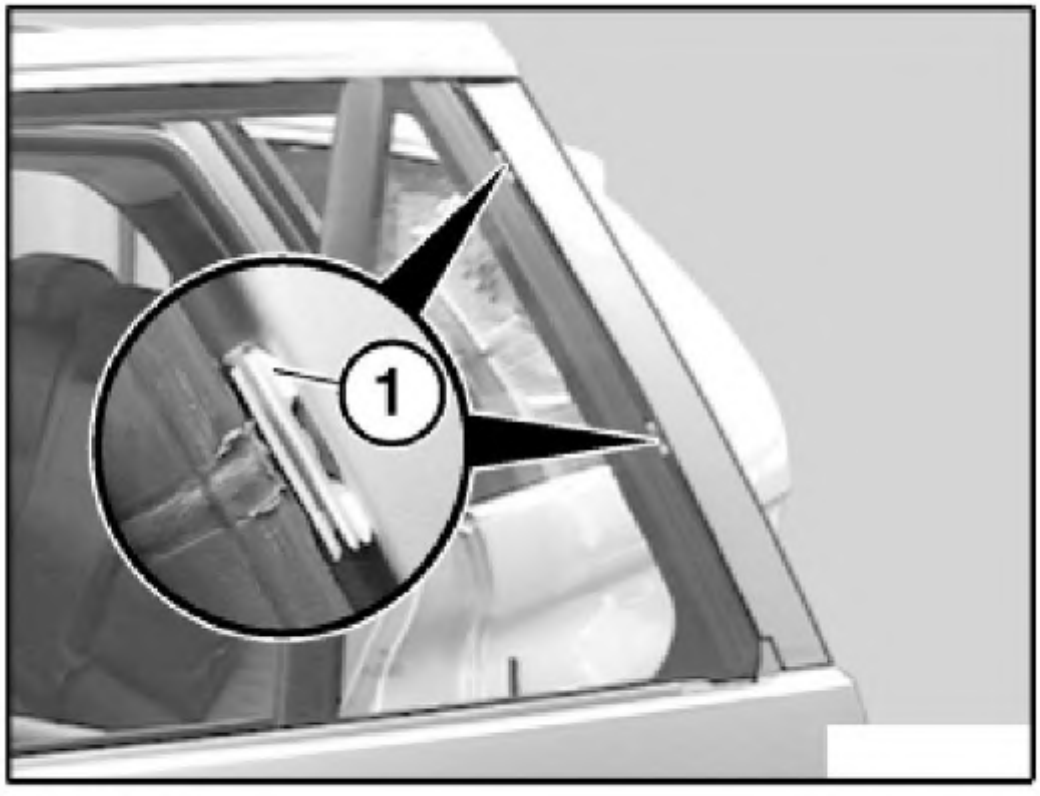


Fig. 311: Inspecting Retainers
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

If necessary, replace faulty clips (1) on trim (2).

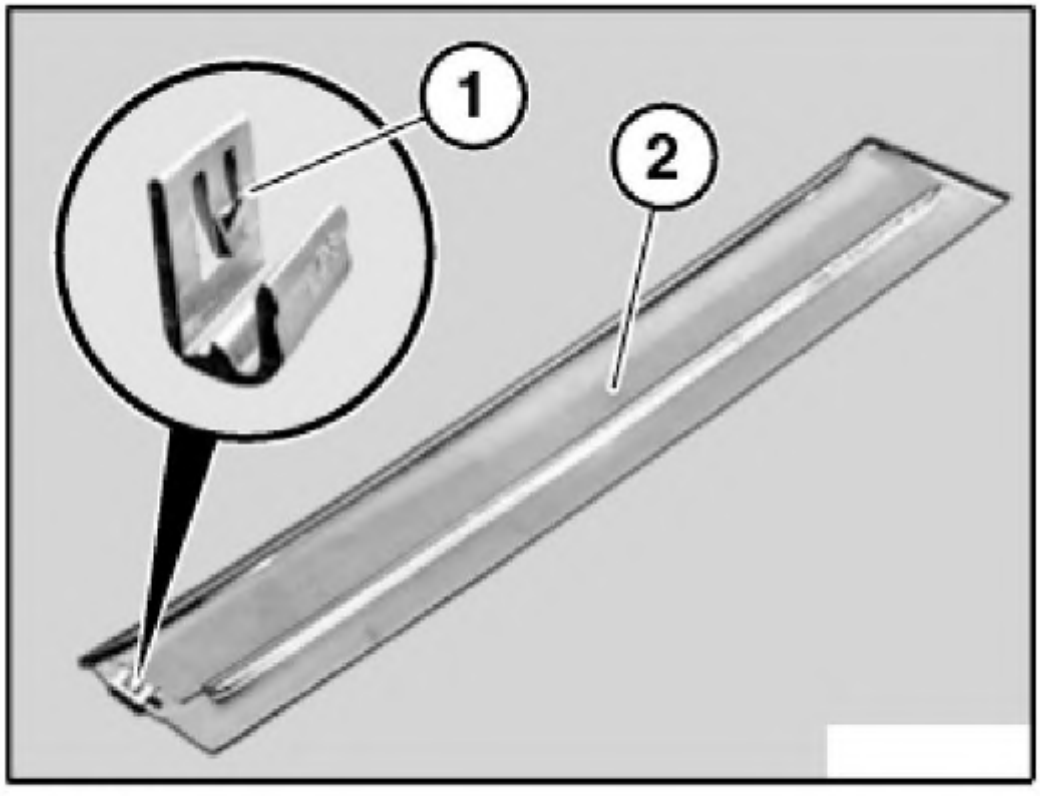


Fig. 312: Inspecting Clips On Trim
Courtesy of BMW OF NORTH AMERICA, INC.

REAR ELECTRICALLY OPERATED WINDOWS

51 37 000 REMOVING AND INSTALLING COMPLETE POWER WINDOW REGULATOR FROM REAR LEFT AND RIGHT SIDES

Release door window glass at rear (do not remove) and stow at bottom in rear door. See **51 34 171 Replacing Rear Left Or Right Door Window** .

Plug connection (1) must be disconnected from power window motor (2).

Unscrew nuts (3).

Lever out window regulator (4) and feed out of rear door.

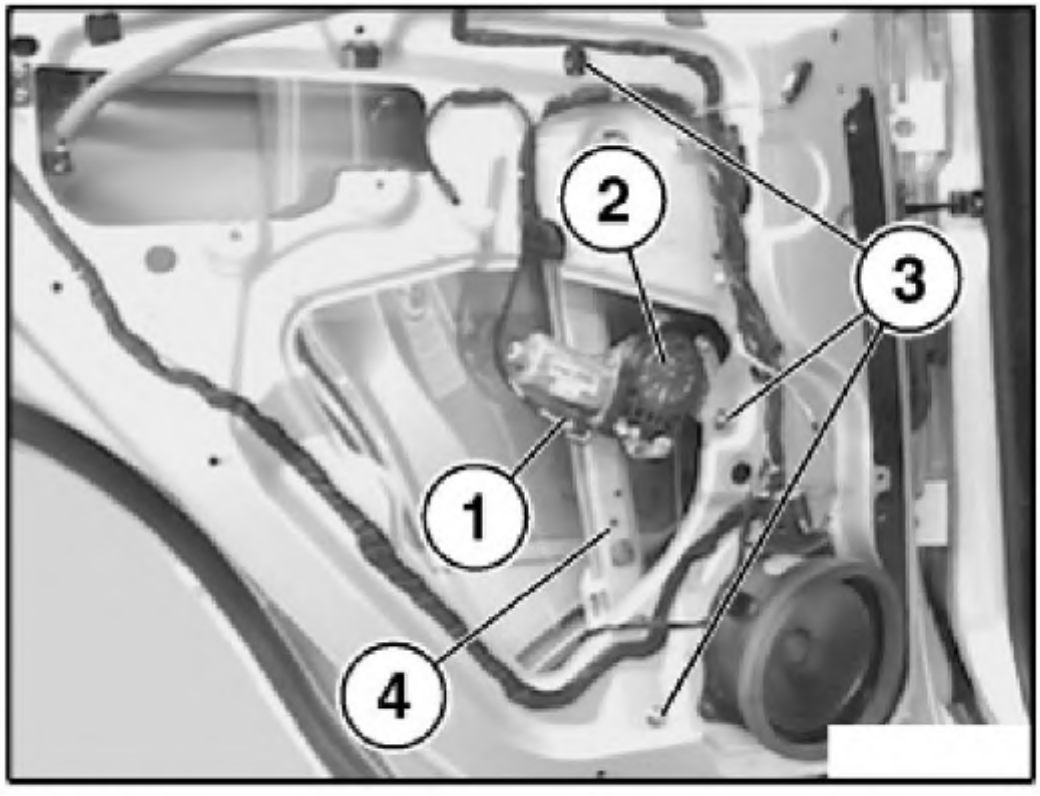


Fig. 313: Unscrewing Nuts
Courtesy of BMW OF NORTH AMERICA, INC.

Replacement only:

Release screws (1).

Turn flat motor (2) and detach from window regulator (3).

Lower end stop (4) must not be damaged.

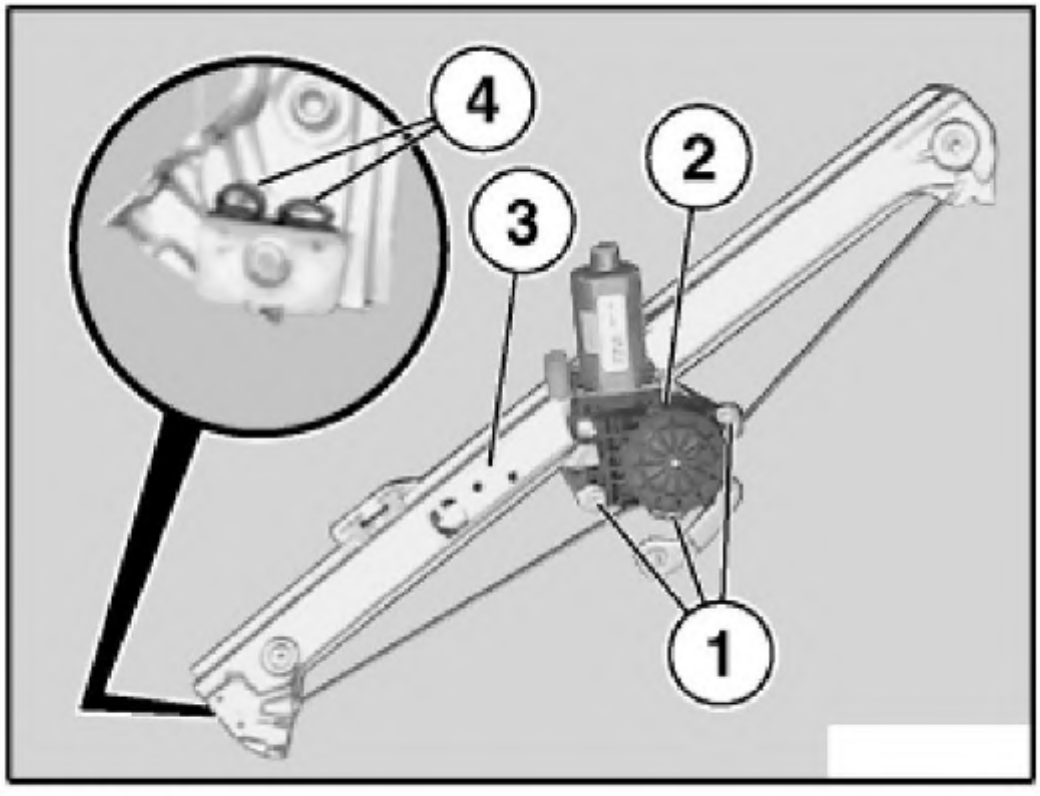


Fig. 314: Releasing Screws
Courtesy of BMW OF NORTH AMERICA, INC.

HINGED WINDOW

51 36 035 REMOVING AND INSTALLING/REPLACING TRIM ON SIDE WINDOW AT TOP REAR LEFT OR RIGHT

Special Tools Required

- 00 9 316
- 00 9 317

Installation:

Carefully lever out trim (1) with special tool 00 9 317.

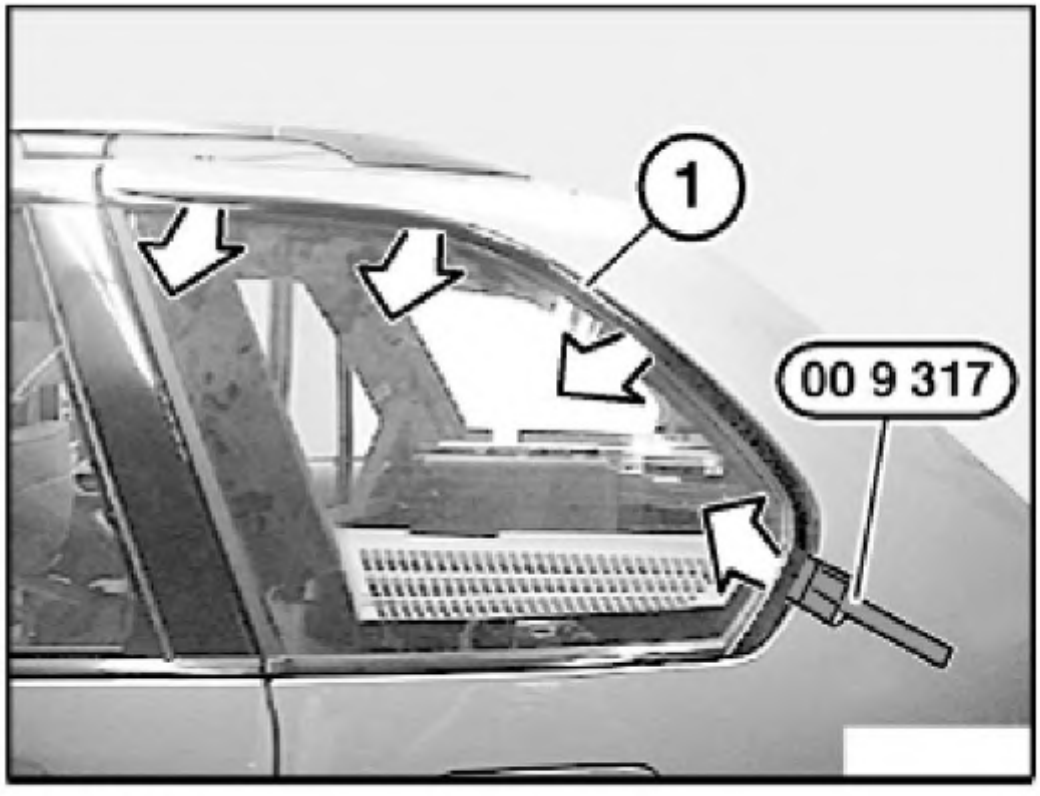


Fig. 315: Identifying Out Trim
Courtesy of BMW OF NORTH AMERICA, INC.

Fit trim (1), raise sealing lip (2) with special tool 00 9 316 and at same time snap trim (1) into place.

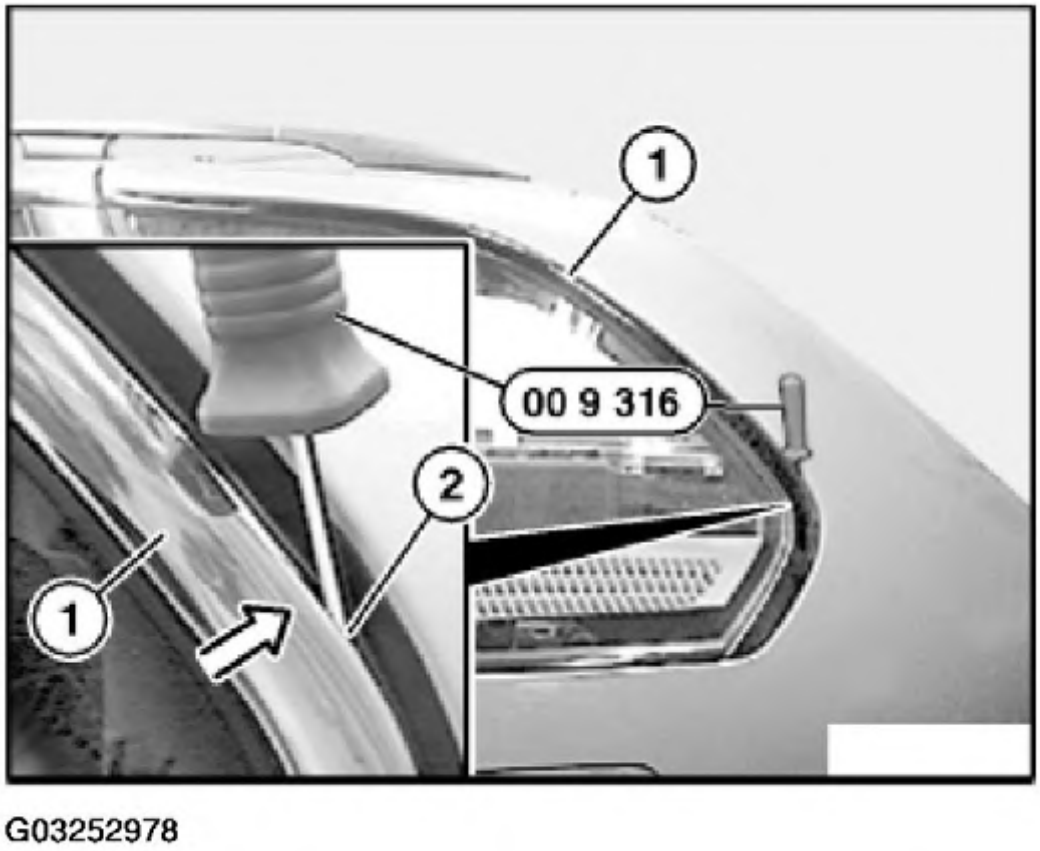


Fig. 316: Fitting Trim
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Catches (1) on trim (2) must not be damaged.

If trim (2) fails to engage correctly, bend catches (1) slightly.

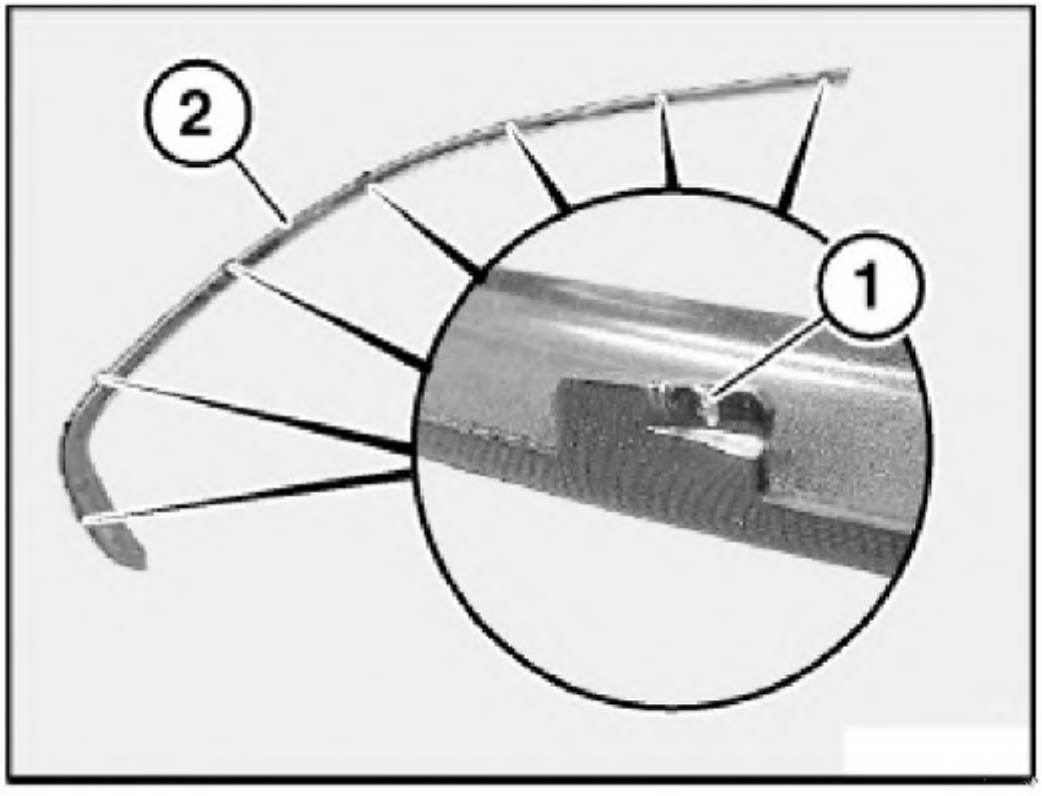


Fig. 317: Inspecting Catches On Trim
Courtesy of BMW OF NORTH AMERICA, INC.

51 36 040 REMOVING AND INSTALLING/REPLACING STRIP ON SIDE WINDOW AT REAR BOTTOM LEFT OR RIGHT

Special Tools Required

- 00 9 318

Removal & Installation

Carefully lever out strip (1) with special tool 00 9 318 from rear to front in direction of arrow.

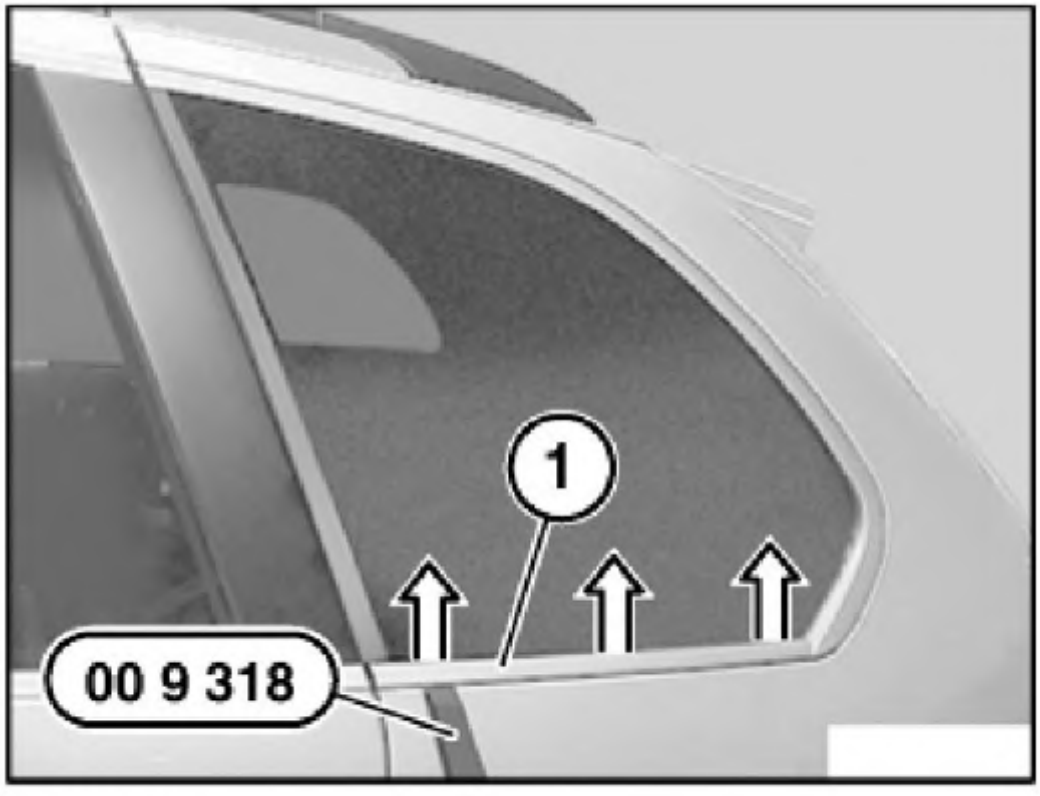


Fig. 318: Identifying Out Strip
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

If necessary, detach clips from bridge (1). Bridge (1) must not be damaged.

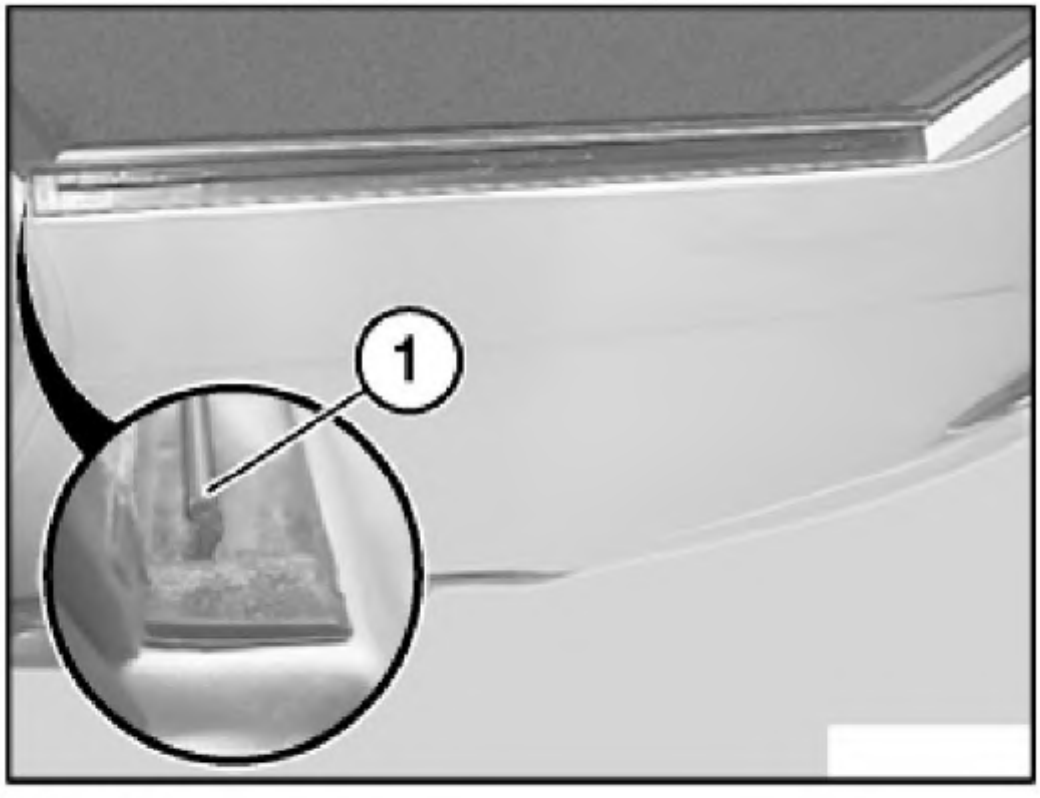


Fig. 319: Detaching Clips From Bridge
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

If necessary, replace faulty clips (2).

Attach clips (2) to strip (1).

Lock (3) must be correctly engaged in strip (1).

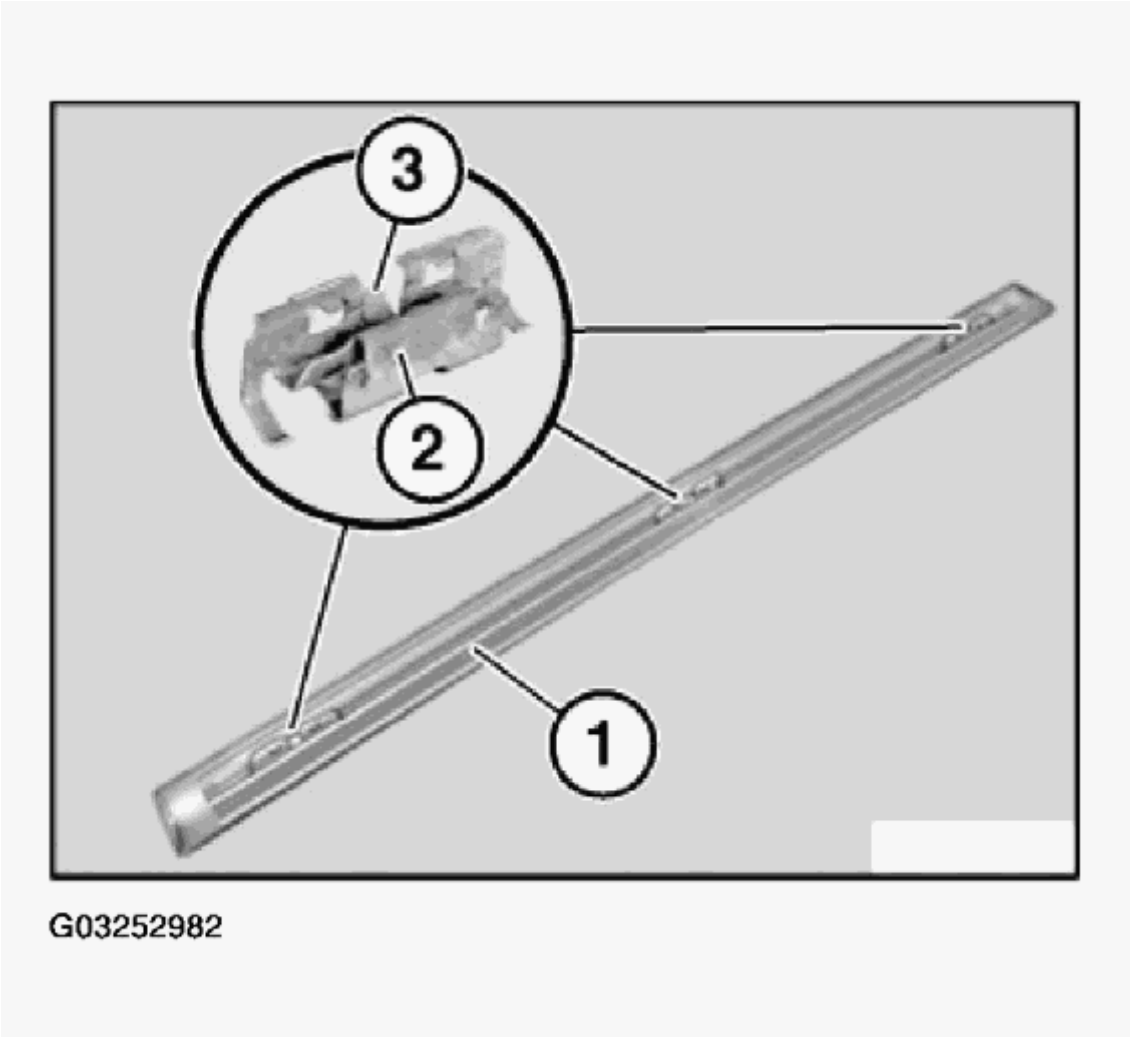


Fig. 320: Attaching Clips To Strip
Courtesy of BMW OF NORTH AMERICA, INC.

51 36 070 REMOVING AND INSTALLING/REPLACING LEFT OR RIGHT REAR SIDE WINDOW

IMPORTANT: The 51 31 ... Instructions On Gluing Windscreen serve as the basis for this repair instruction and must be observed without fail.

ELECTRICAL POWER WINDOWS, BODY

51 37 ... REMOVING AND INSTALLING/REPLACING MOUNT FOR WINDOW CAVITY COVER STRIP, LEFT OR RIGHT

Remove window cavity cover strip on inside for door window. See **51 37 261 Removing And Installing/Replacing Window Cavity Cover Strip For Door Window, Rear Left Or Right** .

Release screws (1).

Remove mount (2).

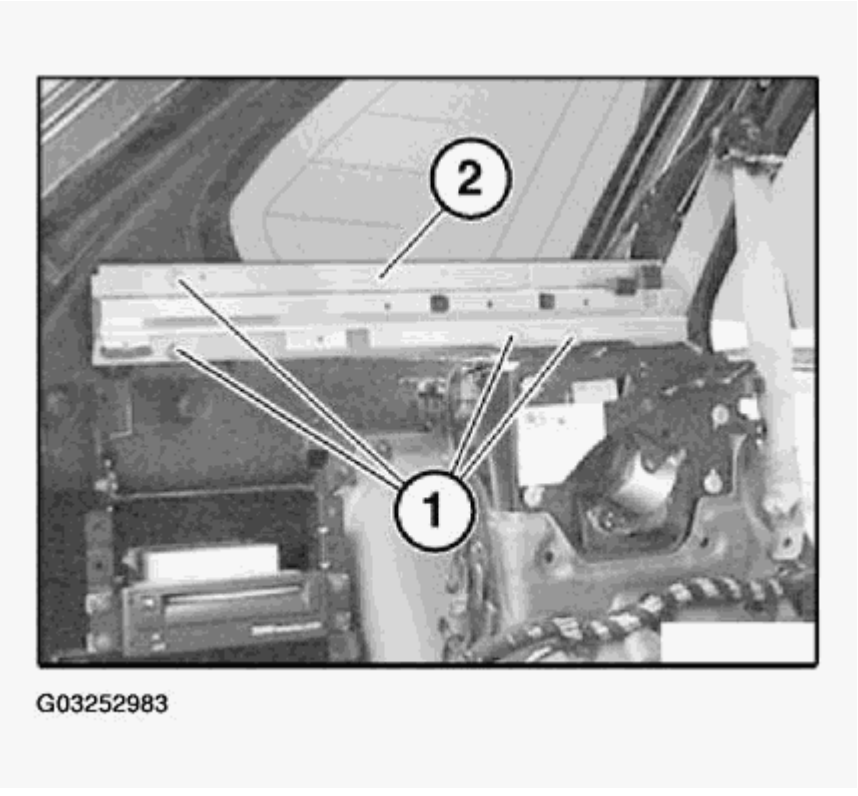


Fig. 321: Releasing Screws & Removing Mount
Courtesy of BMW OF NORTH AMERICA, INC.

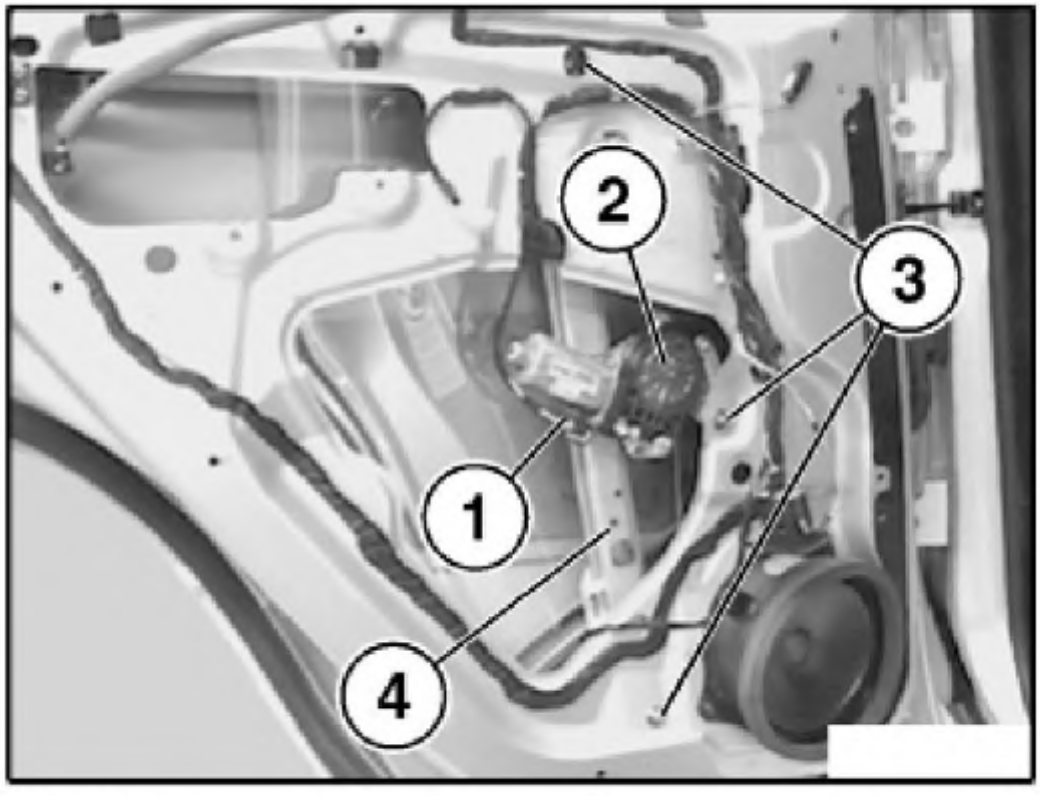
51 37 000 REMOVING AND INSTALLING COMPLETE POWER WINDOW REGULATOR FROM REAR LEFT AND RIGHT SIDES

Release door window glass at rear (do not remove) and stow at bottom in rear door. See **51 34 171 Replacing Rear Left Or Right Door Window** .

Plug connection (1) must be disconnected from power window motor (2).

Unscrew nuts (3).

Lever out window regulator (4) and feed out of rear door.



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Fig. 322: Unscrewing Nuts
Courtesy of BMW OF NORTH AMERICA, INC.

Replacement only:

Release screws (1).

Turn flat motor (2) and detach from window regulator (3).

Lower end stop (4) must not be damaged.

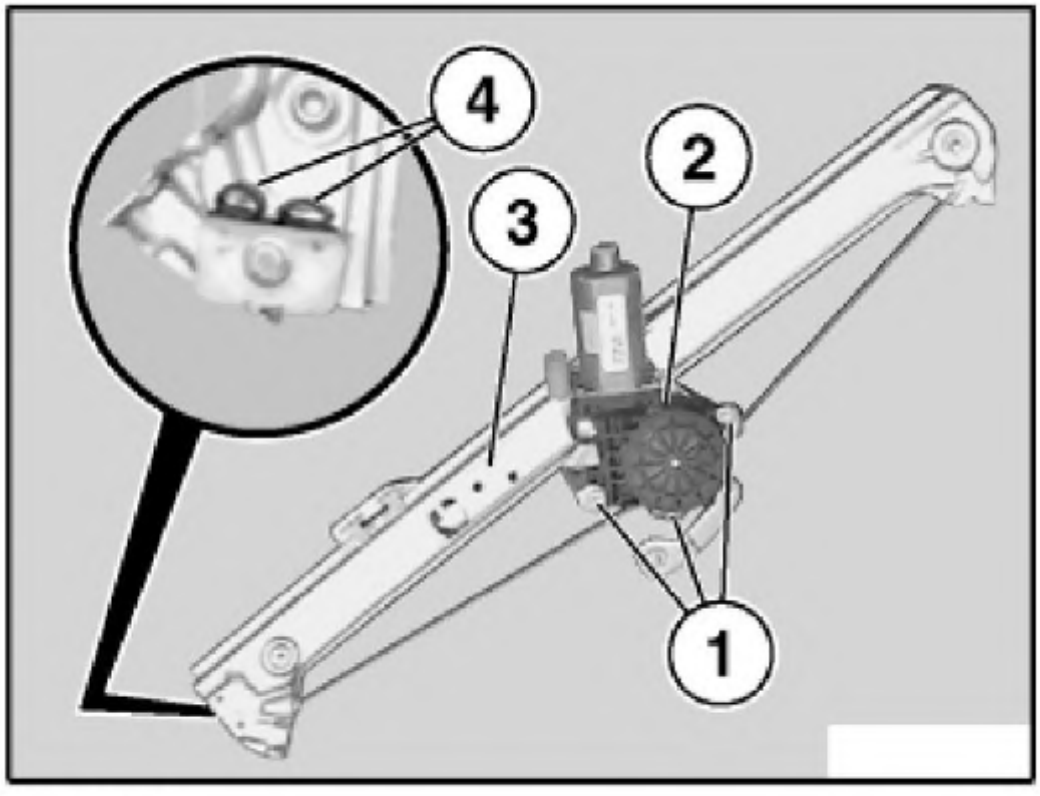


Fig. 323: Detaching From Window Regulator
Courtesy of BMW OF NORTH AMERICA, INC.

51 37 261 REMOVING AND INSTALLING/REPLACING WINDOW CAVITY COVER STRIP FOR DOOR WINDOW, REAR LEFT OR RIGHT

Removing roller cover from luggage compartment, refer to Owner's Handbook.

Fold rear-seat backrest forwards.

Remove panel for roof pillar at rear (C-pillar). See **51 43 251 Removing And Installing/Replacing Trim Panel For Left Or Right Rear Roof Pillar (C Pillar)** .

Remove panel for roof pillar at rear (D-pillar). See **51 43 252 Removing And Installing/Replacing Panel For Rear Roof Pillar (D-Pillar), Left Or Right** .

Remove screws (1 and 2).

Remove window cavity cover strip (3).

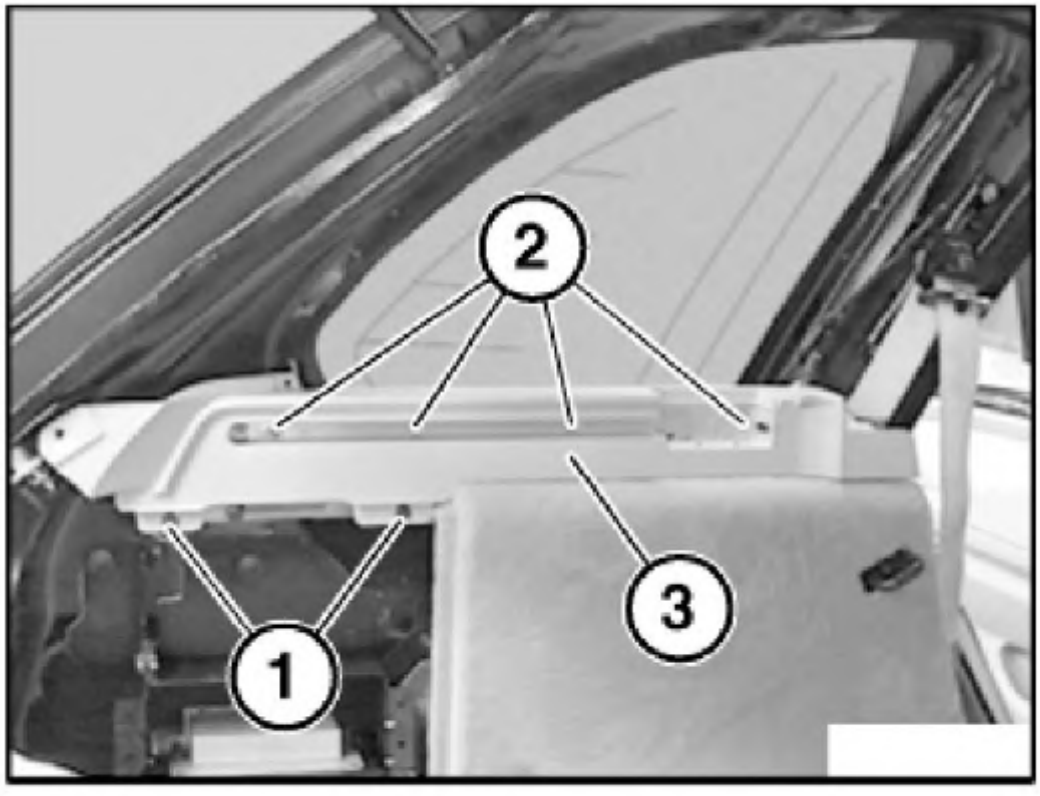


Fig. 324: Removing Window Cavity Cover Strip
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Slide guides (1) into mounts of window frame.

Press guides (2) onto mount for window cavity cover strip.

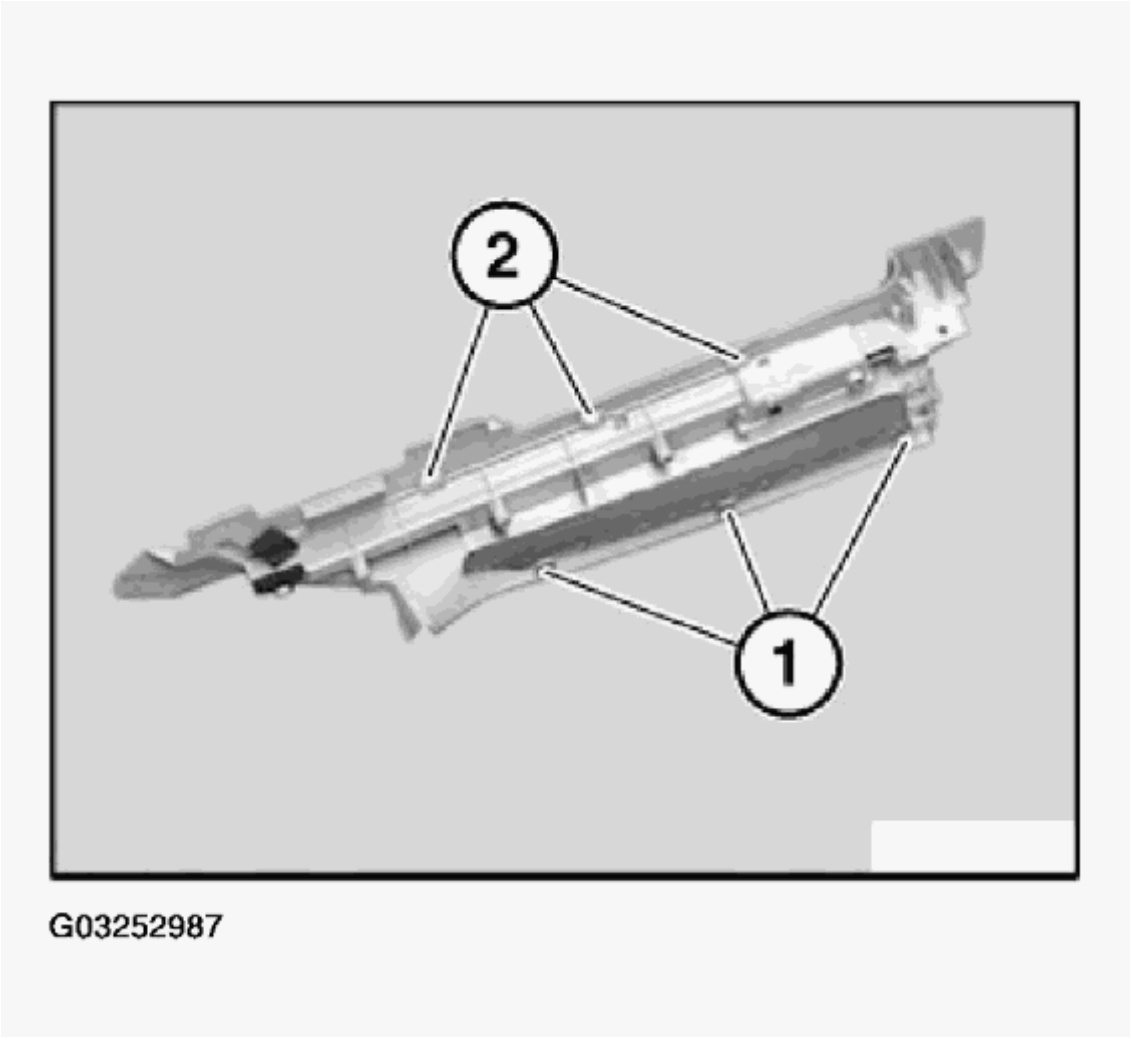


Fig. 325: Pressing Guides Onto Mount For Window Cavity Cover Strip
Courtesy of BMW OF NORTH AMERICA, INC.

FRONT DOOR TRIM PANEL WITH ARM REST

51 41 000 REMOVING AND INSTALLING LEFT OR RIGHT FRONT DOOR TRIM PANEL

Special Tools Required

- 00 9 317

Removal & Installation

WARNING: Version with side airbag:
Follow safety instructions for working on cars with airbag systems, refer to AIR BAG SAFETY PRECAUTIONS .

CAUTION: Do not use any sharp-edged tools to remove the panel - risk of damage to airbag.

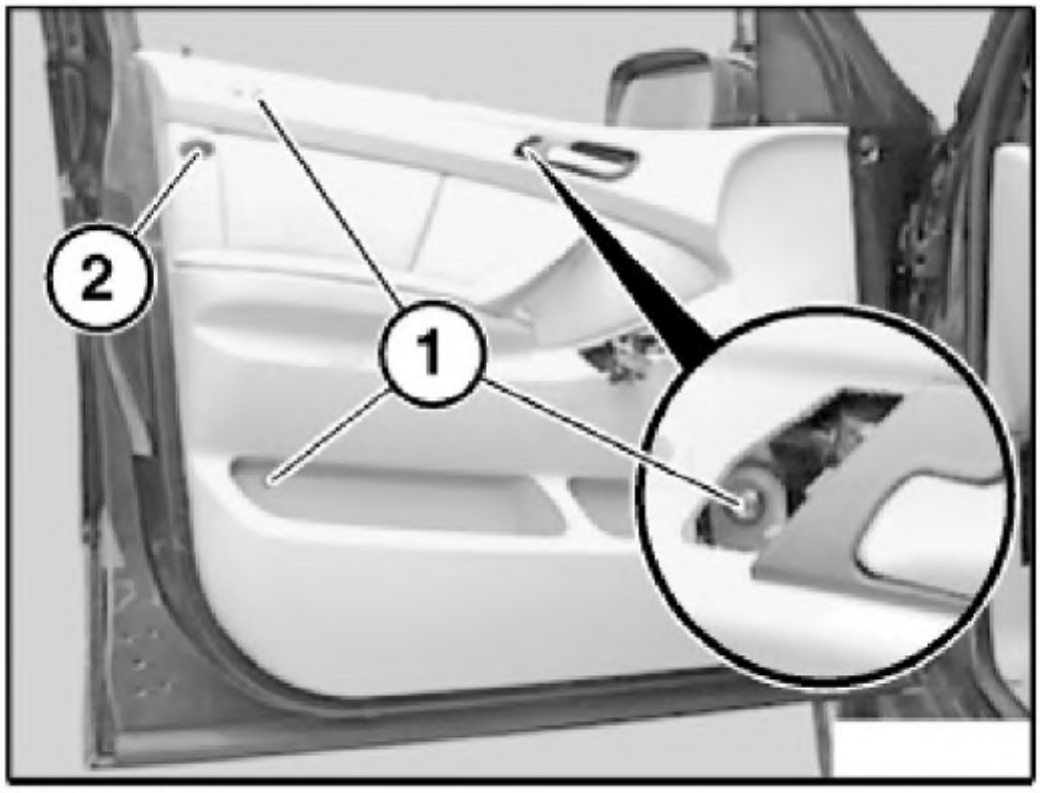
Remove clipped-in trim (decorative strip) on door trim panel. See **51 16 221 Replacing A Clipped Finisher (Decorative Strip On Panel For Instrument Panel, Front Or Rear Door)** .

Remove toggle switch for door window operation. See **61 31 115 REPLACING ROCKER SWITCH FOR SIDE WINDOW CONTROL** .

Remove footwell light on bottom of door. See **63 31 020 REMOVING AND INSTALLING/REPLACING FOOTWELL LIGHT** .

Release screws (1).

Lever out airbag label (2) and release screw underneath.



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Fig. 326: Releasing Screws
Courtesy of BMW OF NORTH AMERICA, INC.

Unclip clips (1) of door trim panel with special tool 00 9 317 (trim panel wedge).

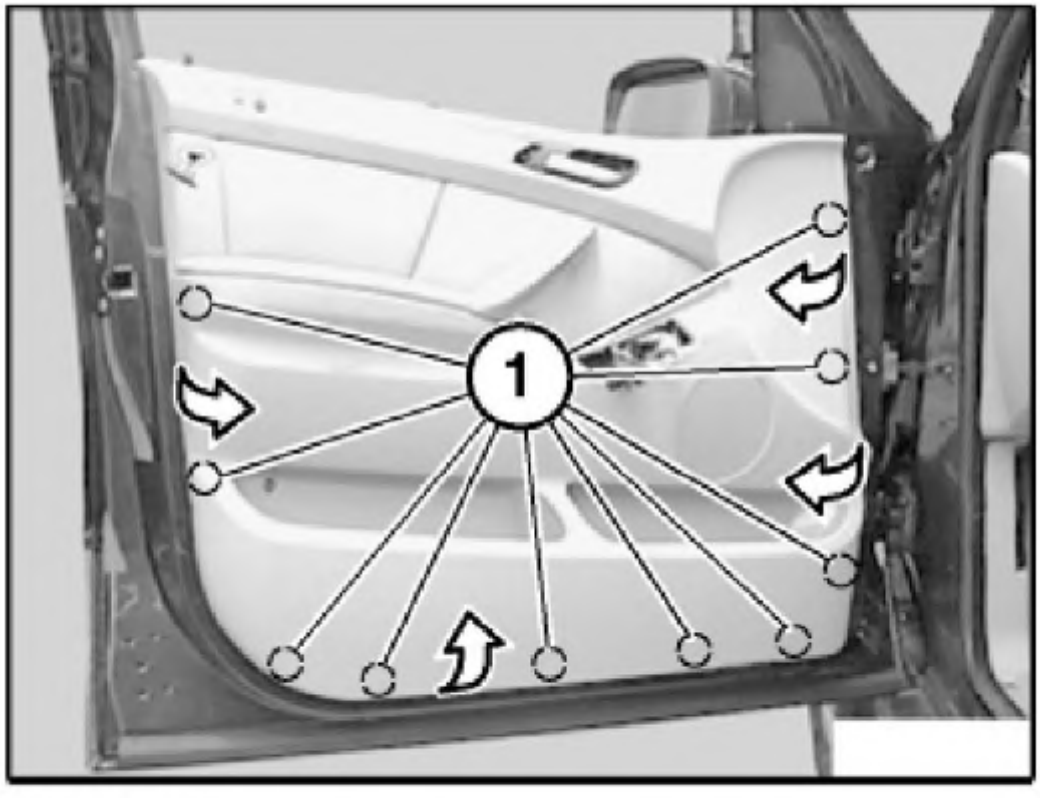


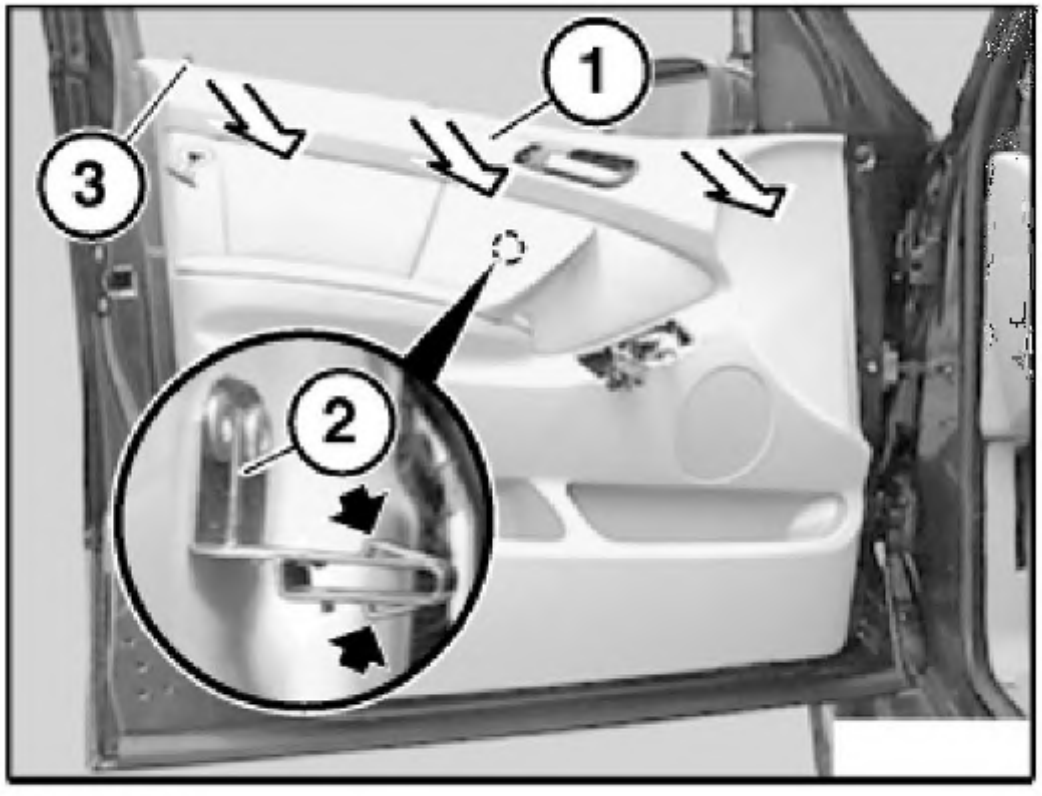
Fig. 327: Uncliping Clips Of Door Trim Panel
Courtesy of BMW OF NORTH AMERICA, INC.

Carefully unclip door trim panel (1) at top with special tool 00 9 317 (trim panel wedge).

Feed door trim panel (1) out of unlocking button (3).

Installation:

Bend open retainers on inner door plate for accommodating central clip (2) for installation.



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Fig. 328: Feeding Door Trim Panel Out Of Unlocking Button
Courtesy of BMW OF NORTH AMERICA, INC.

Version with lighting for inside door handle:

If necessary, disconnect plug connection (1) on door opener (2).

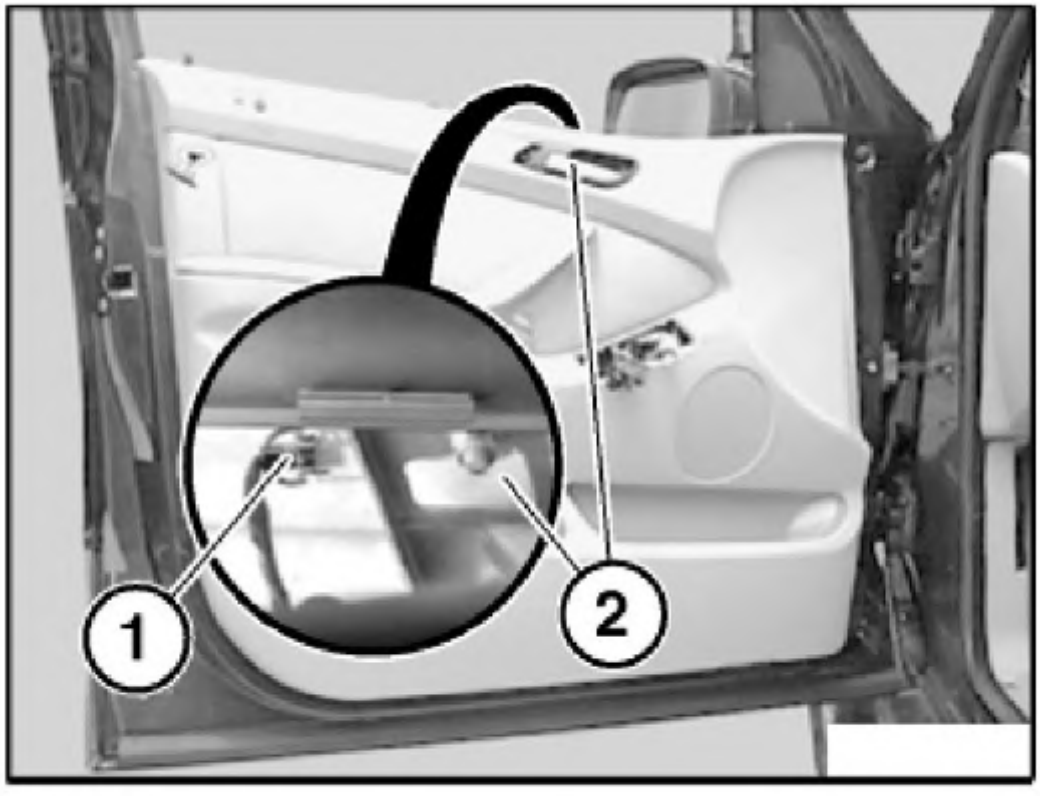


Fig. 329: Disconnecting Plug Connection
Courtesy of BMW OF NORTH AMERICA, INC.

Unhook Bowden cable for release lever:

- Tighten release lever (1).
- Lever out lock (2).
- Detach Bowden cable towards inside/rear.

Installation:

Press unlocking lever (1) for installation fully on door trim panel.

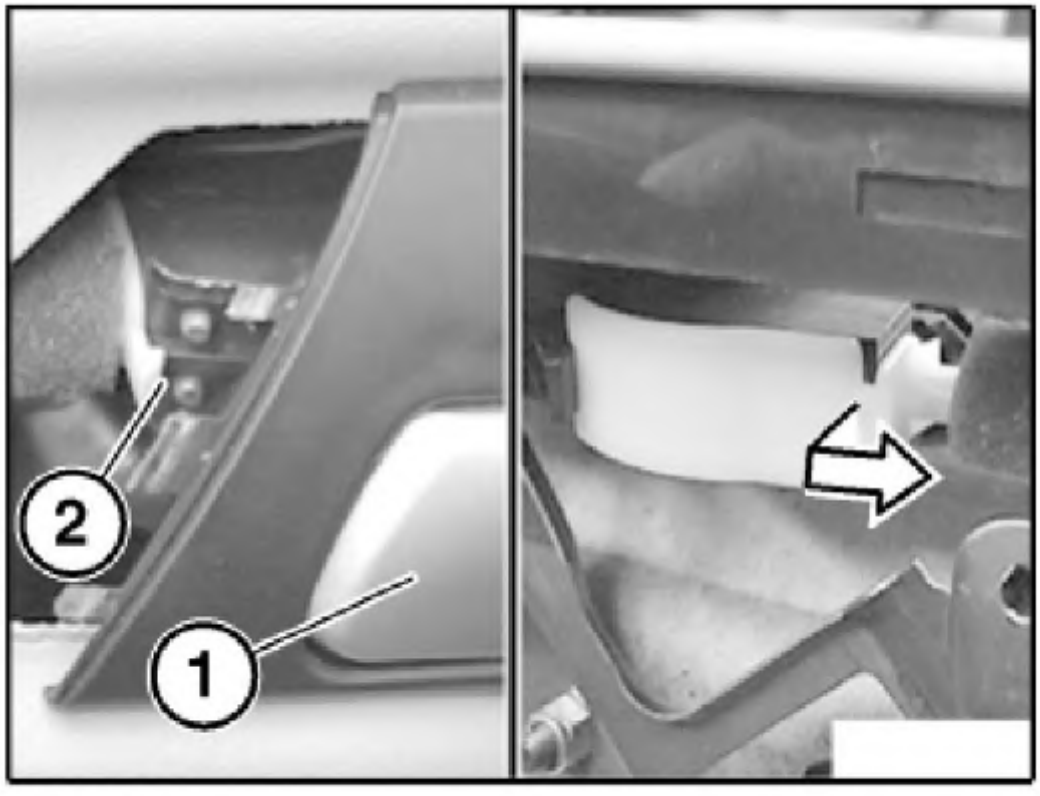


Fig. 330: Pressing Unlocking Lever For Installation Fully On Door Trim Panel
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Clips (1) are longer than the other clips.

Clips (1) are gray, the other clips are white.

Fit all clips with sealing ring.

If necessary, replace faulty clips.

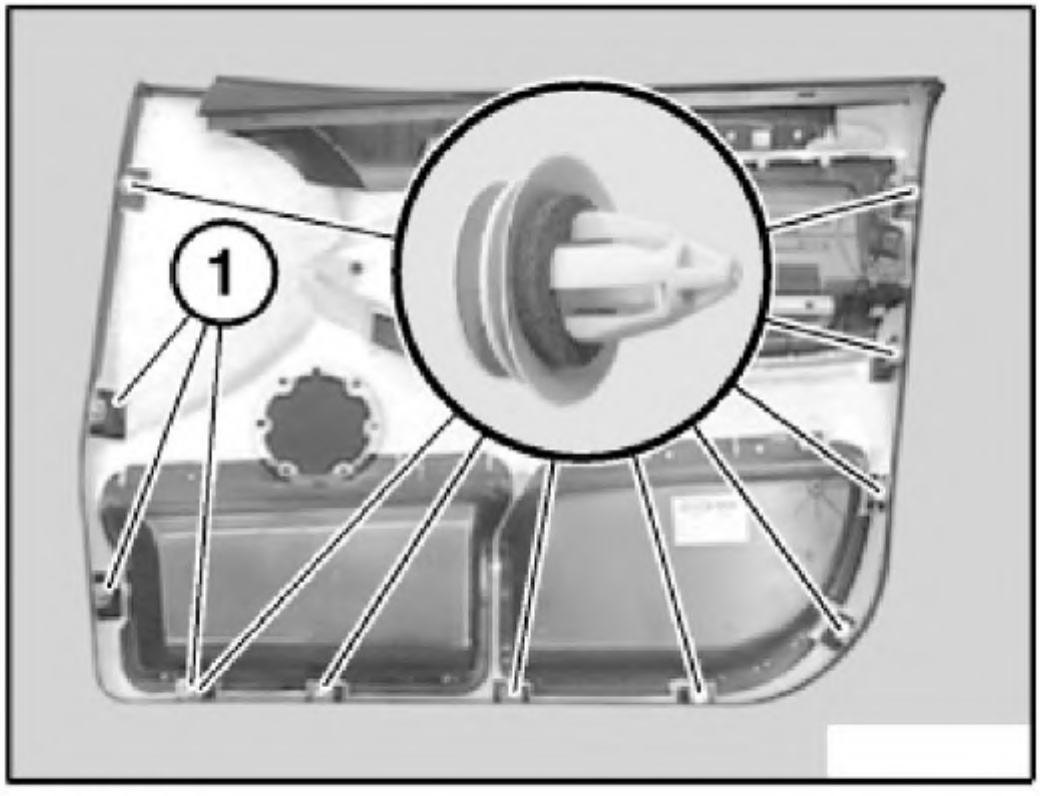


Fig. 331: Fitting All Clips With Sealing Ring
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

After assembling the door trim panel proceed as follows:

- Open door window.
- Lock with vehicle key.
- Check whether linkage of safety button can move freely.
- If necessary, align linkages.

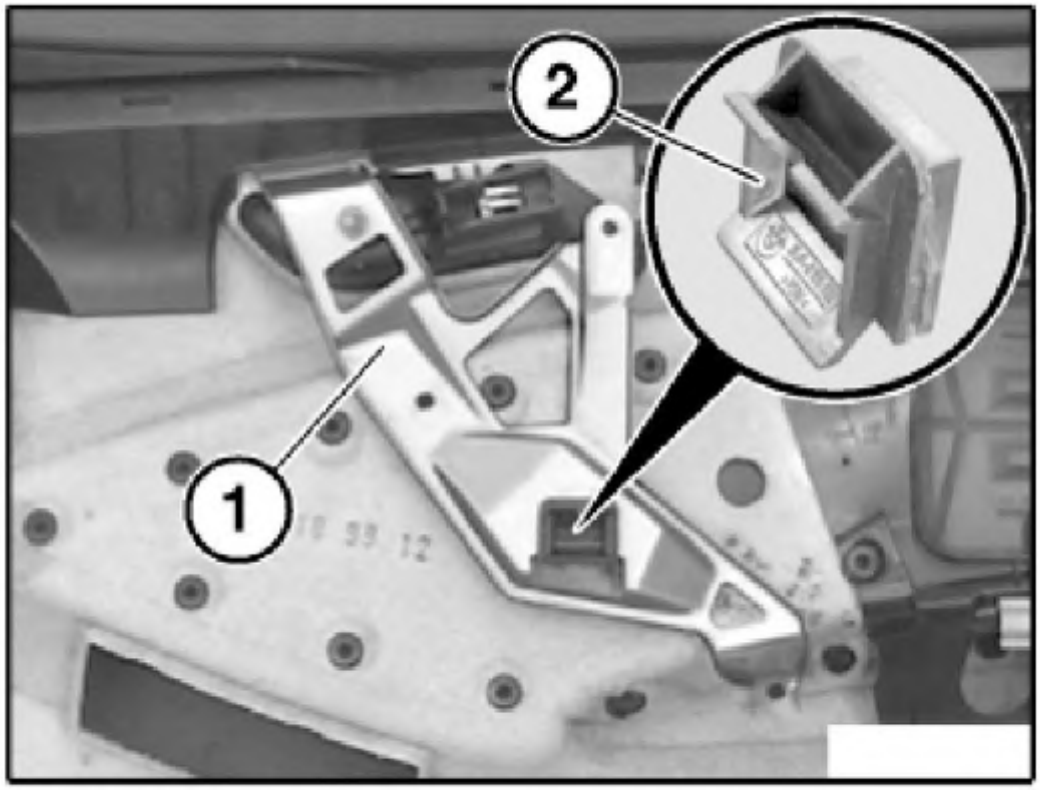
51 41 001 REPLACING FRONT LEFT OR RIGHT DOOR TRIM

Remove front door trim panel. See **51 41 000 Removing And Installing Left Or Right Front Door Trim Panel** .

Version with illuminated inside door handle:

If necessary, remove inside door handle. See **51 21 225 Removing And Installing/Replacing Inside Door Handle In Left Or Right Front Door** .

Attach central clip (2) to frame (1).



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Fig. 332: Attaching Central Clip To Frame
Courtesy of BMW OF NORTH AMERICA, INC.

51 41 017 REMOVING AND INSTALLING/REPLACING COVER ON DOOR HANDLE, FRONT LEFT OR RIGHT

Special Tools Required

- 00 9 317

Removal & Installation

Lever out cover (1) with special tool 00 9 317 (trim panel wedge).

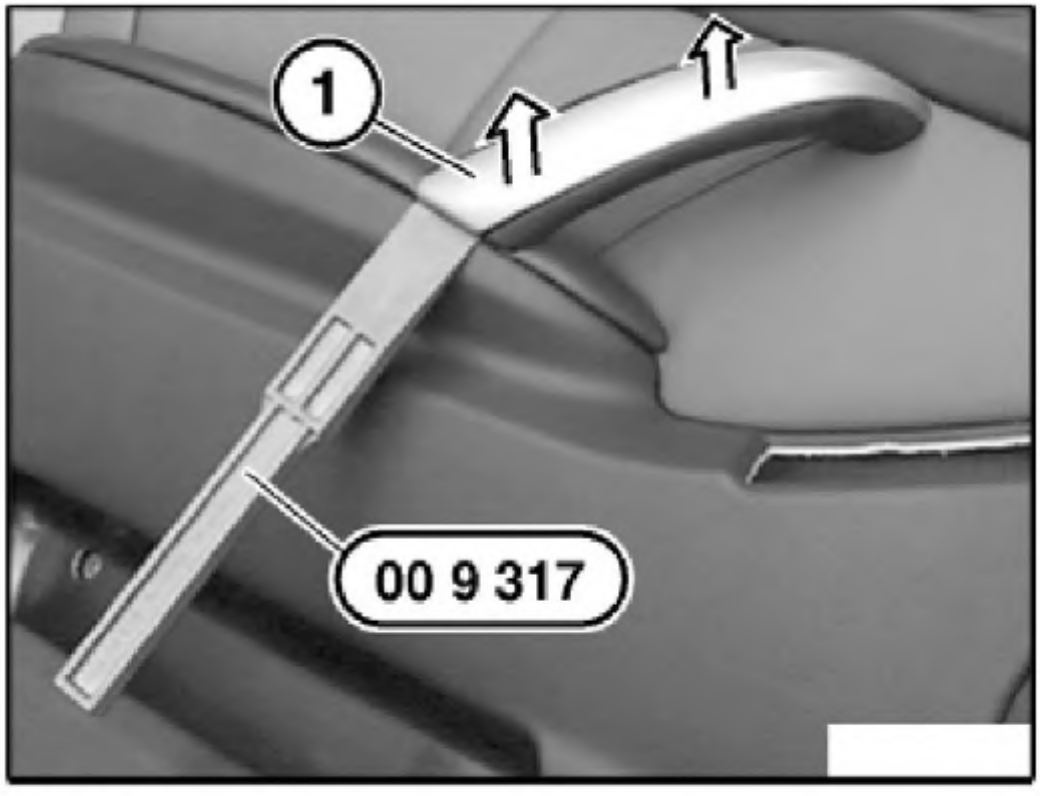
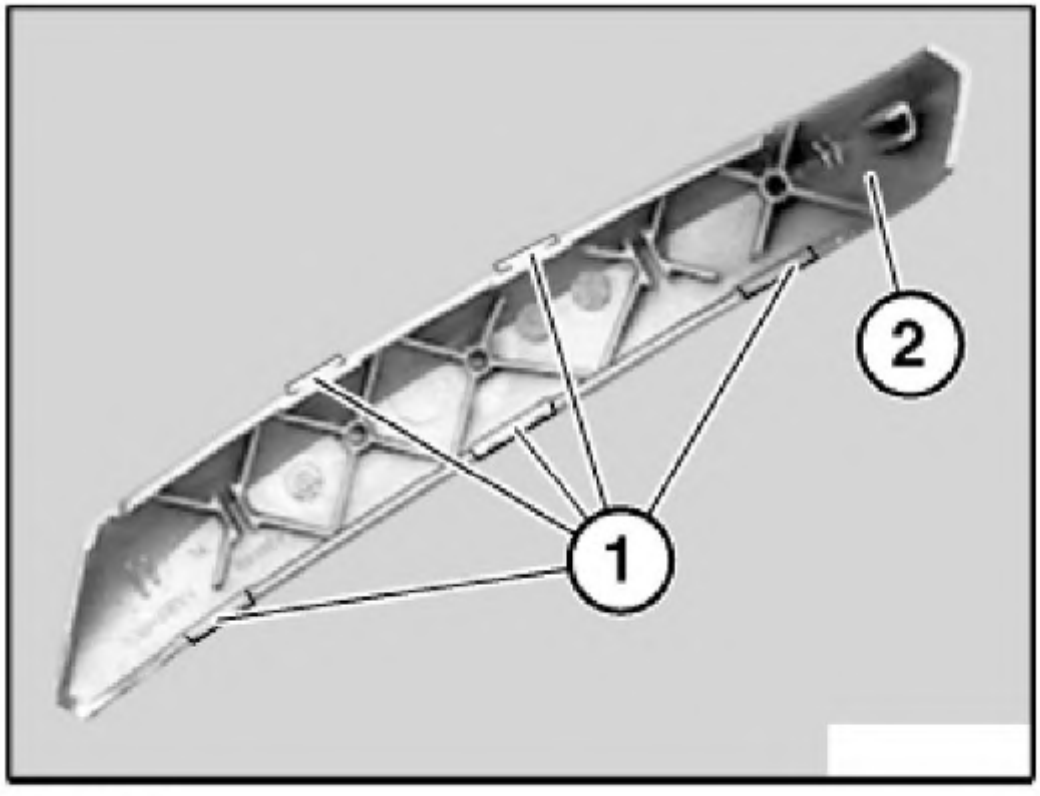


Fig. 333: Removing Cover
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Catches (1) on cover (2) must not be damaged.



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Fig. 334: Checking Catches On Cover
Courtesy of BMW OF NORTH AMERICA, INC.

51 41 018 REPLACING SPEAKER FRAME ON FRONT LEFT OR RIGHT DOOR TRIM PANEL

Remove front door trim panel. See **51 41 000 Removing And Installing Left Or Right Front Door Trim Panel** .

Release plastic welded joints (1) and remove speaker frame (2).

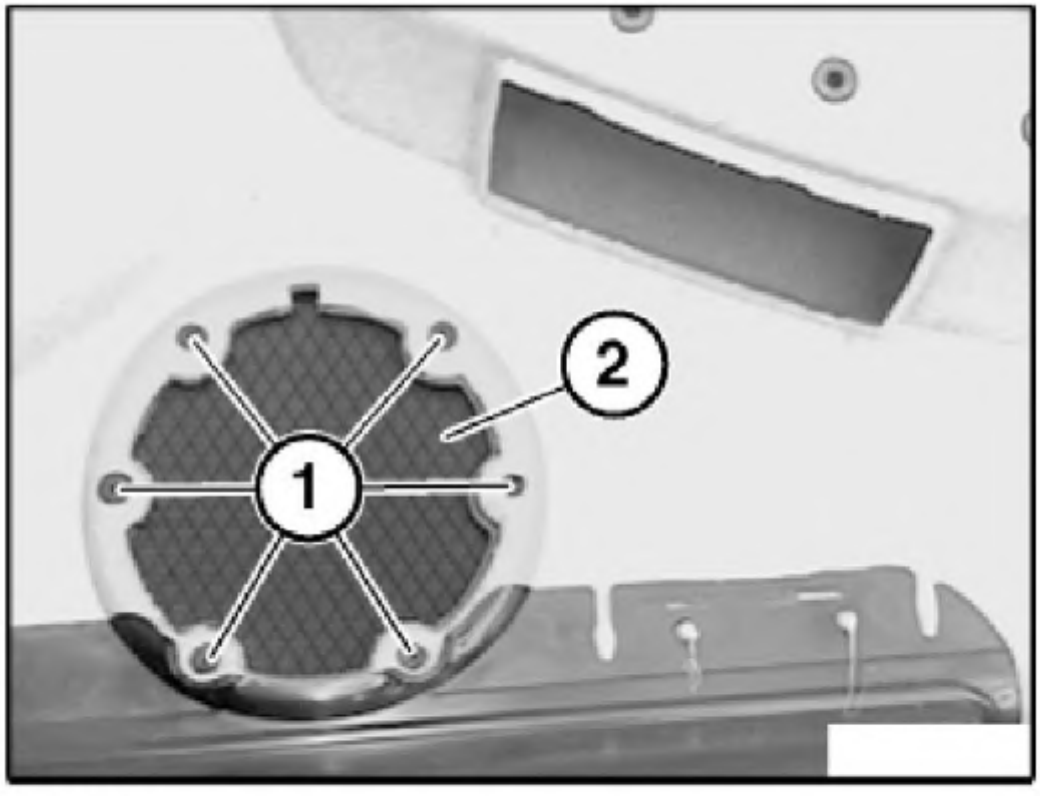


Fig. 335: Removing Speaker Frame
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Install new speaker frame (1).

Push locking washers (3) onto plastic pins (2).

Shorten all plastic pins (2) down to measurement (A).

A 2 mm

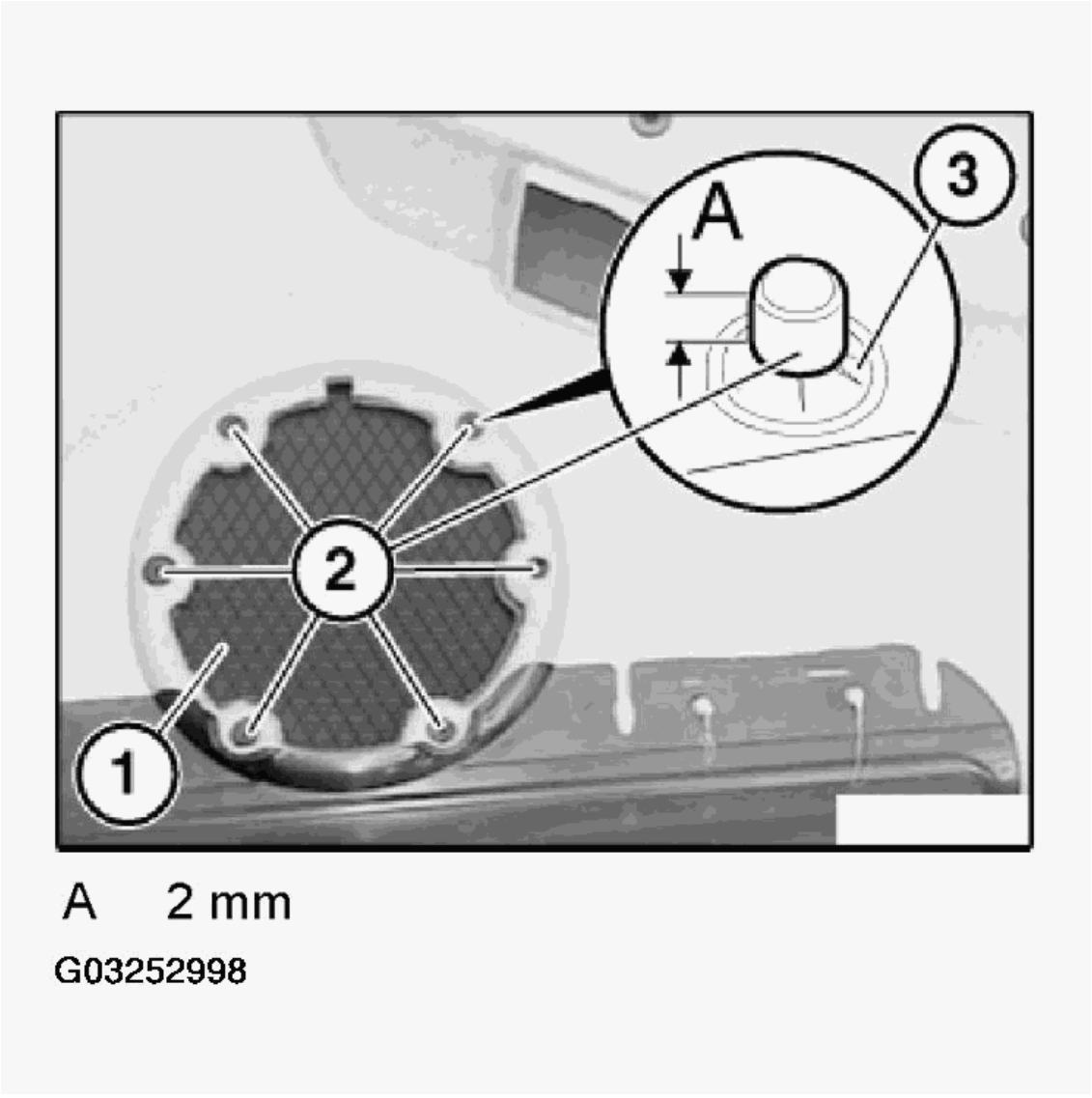


Fig. 336: Installing Speaker Frame
Courtesy of BMW OF NORTH AMERICA, INC.

51 41 019 REMOVING AND INSTALLING/REPLACING DOOR HANDLE ON DOOR TRIM PANEL, FRONT LEFT OR RIGHT

Remove front door trim panel. See **51 41 000 Removing And Installing Left Or Right Front Door Trim Panel** .

Remove cover on door handle. See **51 41 017 Removing And Installing/Replacing Cover On Door Handle, Front Left Or Right** .

Release screw (1).

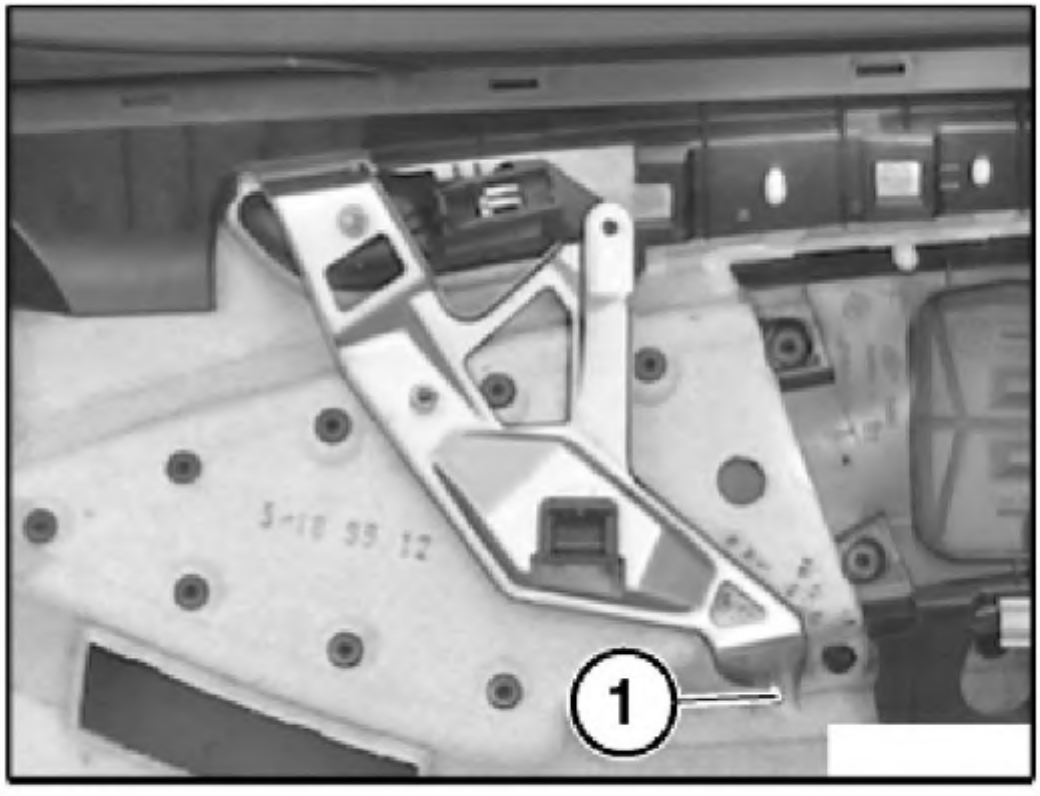


Fig. 337: Releasing Screw
Courtesy of BMW OF NORTH AMERICA, INC.

Release screw (1) and detach door handle (2) from door trim panel (3).

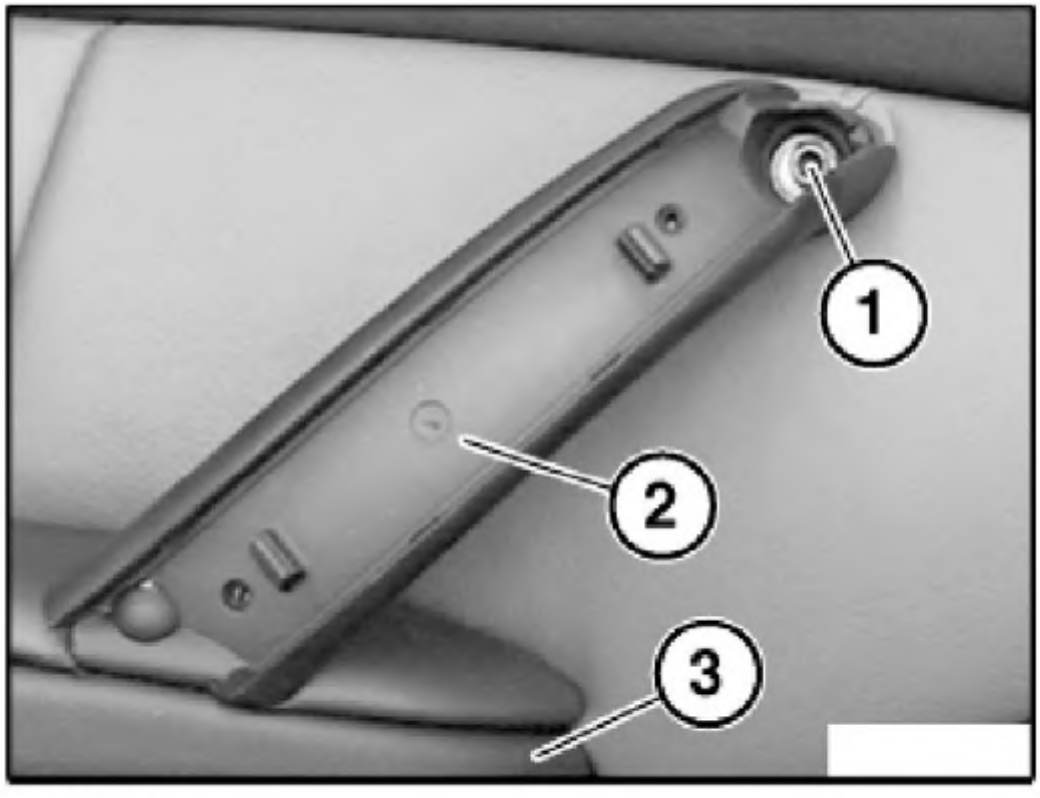
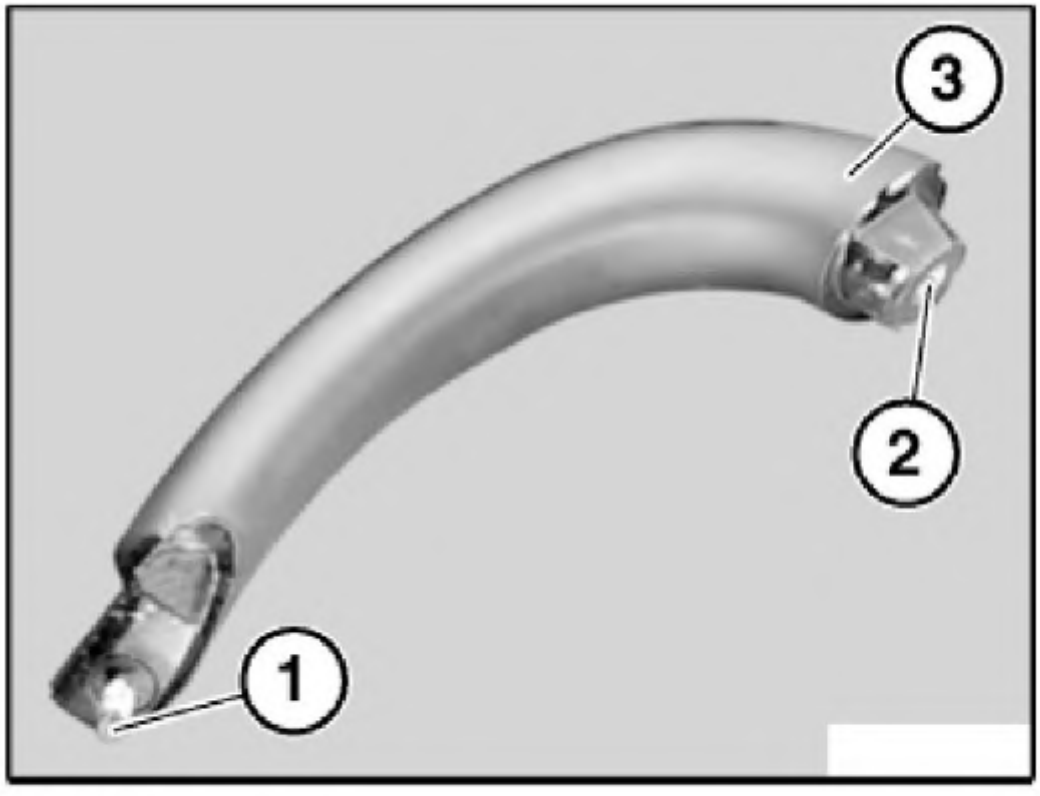


Fig. 338: Detaching Door Handle From Door Trim Panel
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Screw (1) and sleeve (2) on door handle (3) must not be damaged.



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Fig. 339: Checking Screw And Sleeve On Door Handle
Courtesy of BMW OF NORTH AMERICA, INC.

51 48 ... REMOVING AND INSTALLING/REPLACING SOUND INSULATION IN FRONT DOOR, LEFT OR RIGHT

Special Tools Required

- 00 9 317

Removal & Installation

Remove front door trim panel. See **51 41 000 Removing And Installing Left Or Right Front Door Trim Panel** .

If necessary, remove airbag module in front door. See **SIDE AIR BAG MODULE** .

Using special tool 00 9 317 (trim panel wedge), lever out sealing bead (1) of sound insulation (2) completely or

if necessary partially.

Feed airbag lead (3) out of sound insulation (2).

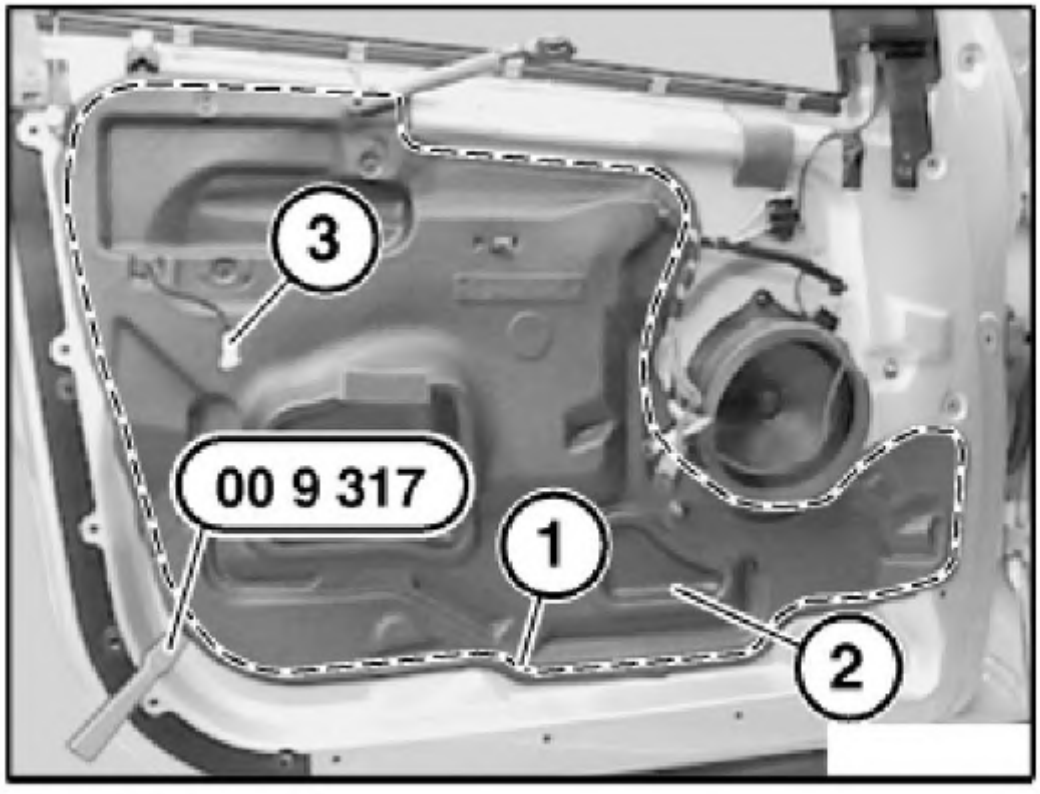


Fig. 340: Feeding Airbag Lead Out Of Sound Insulation
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

In event of replacement or partial detachment, lay butylene tape (sourcing reference: BMW Parts) on inner door plate or sound insulation.

Seal cable penetrations with butylene tape.

NOTE: Position of butylene tape (1) on inner door plate.

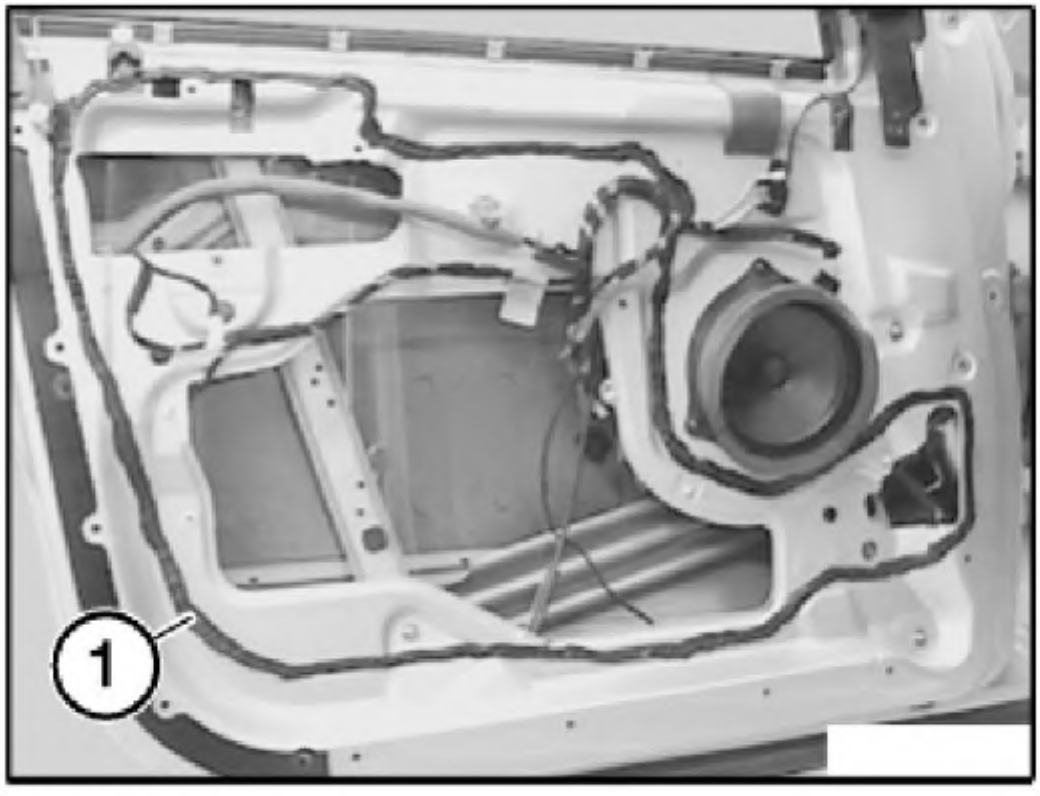


Fig. 341: Positioning Of Butylene Tape On Inner Door Plate
Courtesy of BMW OF NORTH AMERICA, INC.

NOTE: Position of butylene tape (1) on sound insulation (2).

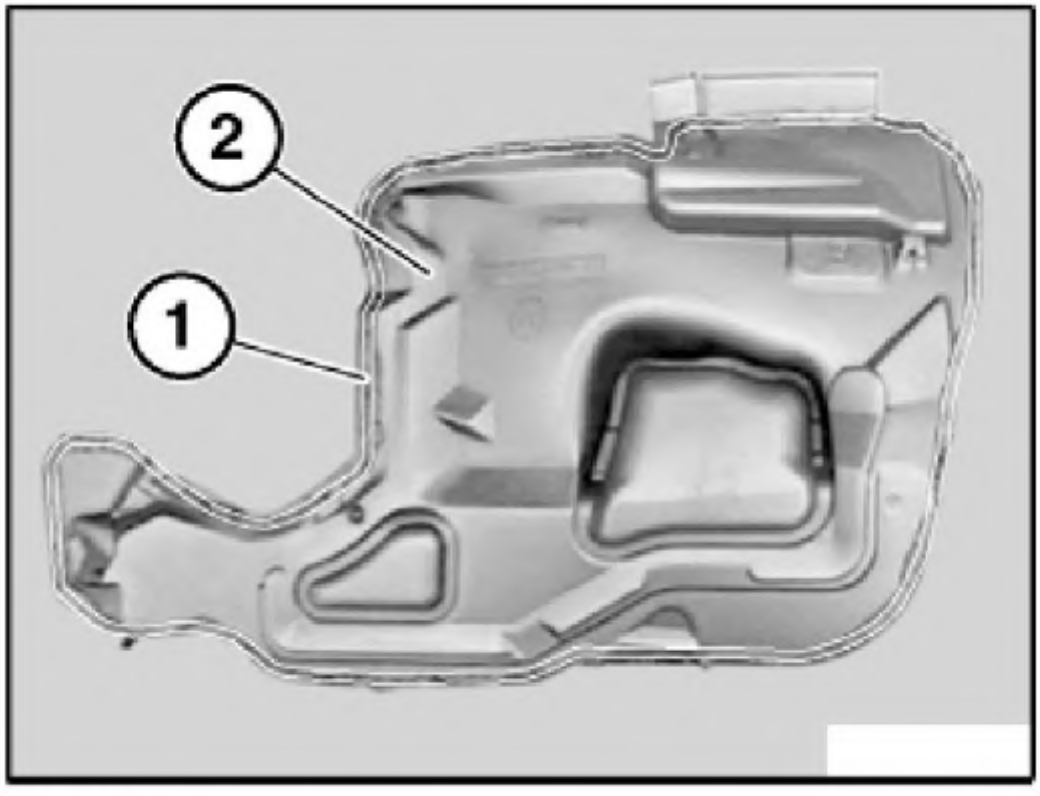


Fig. 342: Positioning Of Butylene Tape On Sound Insulation
Courtesy of BMW OF NORTH AMERICA, INC.

Clean specified adhesive area with adhesive cleaner (sourcing reference: BMW Parts Service).

Air drying time: 1 minute

CAUTION: The adhesive areas must be dry and free from dust and grease. After cleaning, do not touch the adhesive areas with bare hands.

Lay single row of 6 mm dia. butylene tape or double row of 3 mm dia. tape (sourcing reference: BMW Parts) in specified adhesive area.

Heat butylene tape (hot air blower) and press down firmly on sound insulation all around.

Contact pressure with hand roller: approx. 30 N/cm^2

Manual contact pressure: approx. 10 N/cm^2

NOTE: Firm thumb pressure has approx. 50 N/cm^2

REAR DOOR TRIM PANEL WITH ARM REST

51 42 000 REMOVING AND INSTALLING REAR LEFT OR RIGHT DOOR TRIM PANEL

Special Tools Required

- 00 9 317

Removal & Installation

WARNING: Version with side airbag: Follow safety instructions for working on cars with airbag systems, refer to 51 00 ... SERVICE POSITION OF ENGINE HOOD

CAUTION: Do not use any sharp-edged tools to remove the panel - risk of damage to airbag.

Remove clipped-in trim (**decorative strip**) on door trim panel.

Remove toggle switch for door window operation. See **61 31 115 REPLACING ROCKER SWITCH FOR SIDE WINDOW CONTROL** .

Remove footwell light on bottom of door. See **63 31 020 REMOVING AND INSTALLING/REPLACING FOOTWELL LIGHT** .

Version with roller sun blind additionally:

Remove roller sun blind on door window. See **51 16 400 Removing And Installing Or Replacing Sun Blind At Fixed Side Window Of Left Or Right Rear Door** .

Release screw (1).

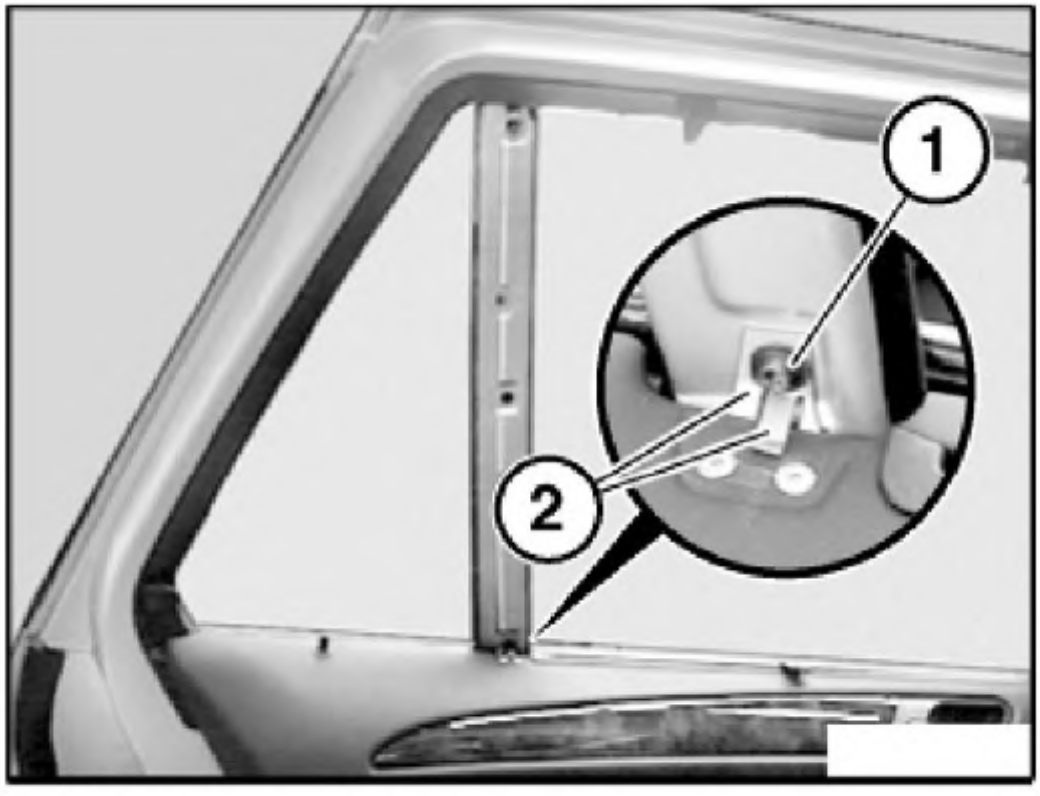


Fig. 343: Releasing Screw
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Bracket (2) must not be damaged.

Release screws (1).

Lever out airbag label (2) and release screw underneath.

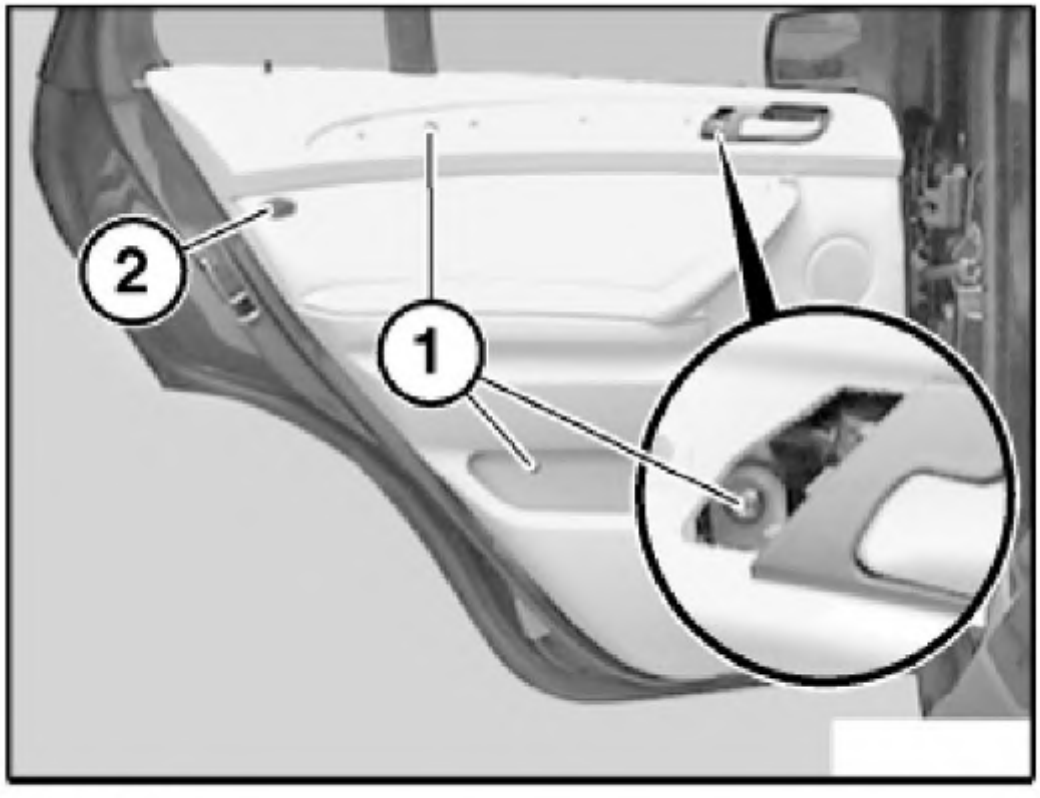


Fig. 344: Locating Airbag Label
Courtesy of BMW OF NORTH AMERICA, INC.

Unclip clips (1) of door trim panel with special tool 00 9 317 (trim panel wedge).

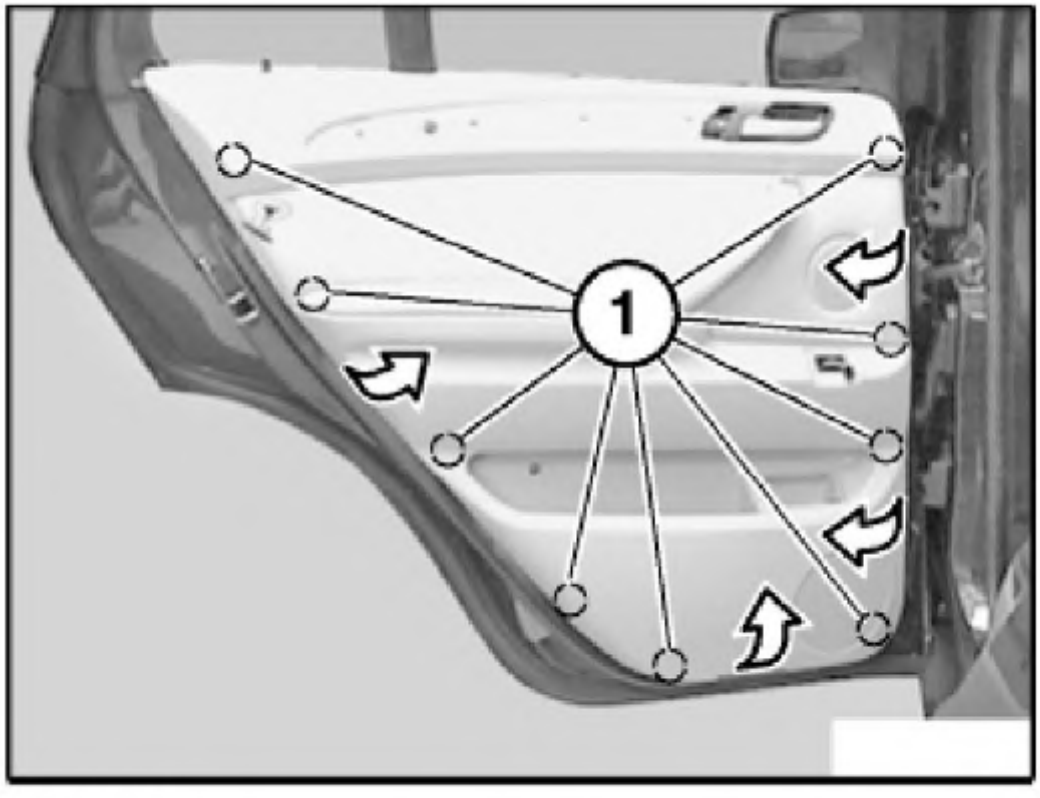


Fig. 345: Uncliping Clips Of Door Trim Panel
Courtesy of BMW OF NORTH AMERICA, INC.

Carefully unclip door trim panel (1) at top with special tool 00 9 317 (trim panel wedge).

Feed door trim panel (1) out of unlocking button (3).

Installation:

Bend open retainers (2) on inner door plate for accommodating central clip.



Fig. 346: Feeding Door Trim Panel Out Of Unlocking Button
Courtesy of BMW OF NORTH AMERICA, INC.

Version with lighting for inside door handle:

If necessary, disconnect plug connection (1) on inside door handle (2).

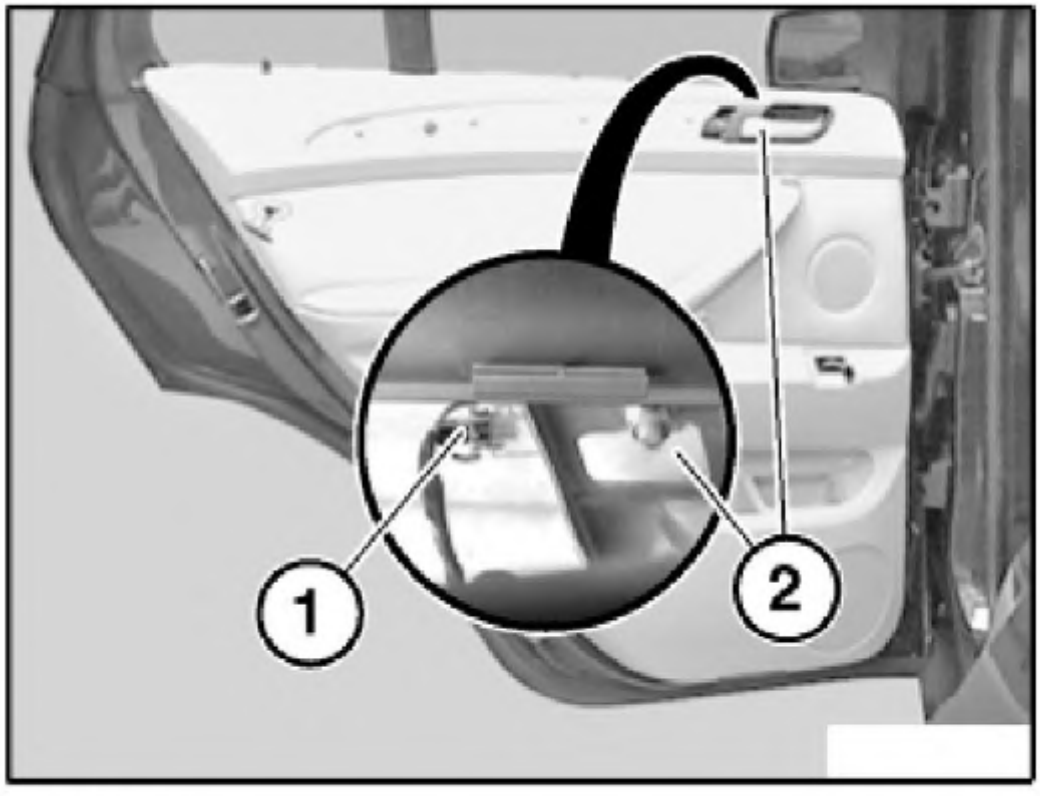


Fig. 347: Disconnecting Plug Connection On Inside Door Handle
Courtesy of BMW OF NORTH AMERICA, INC.

Unhook Bowden cable for release lever:

- Tighten release lever (1).
- Lever out lock (2).
- Detach Bowden cable towards inside/rear.

Installation:

Press unlocking lever (1) for installation fully on door trim panel.

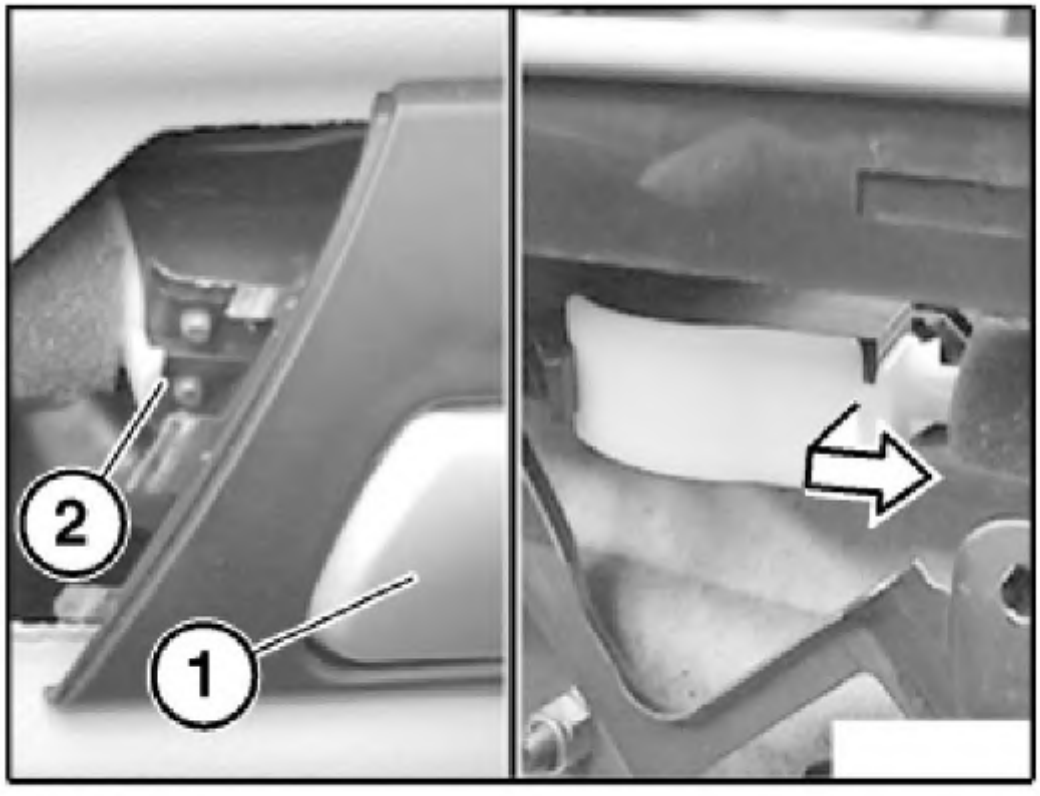


Fig. 348: Pressing Unlocking Lever
Courtesy of BMW OF NORTH AMERICA, INC.

Version with additional speaker:

If necessary, disconnect plug connection (1) on additional speaker (2).

Remove door trim panel (3).

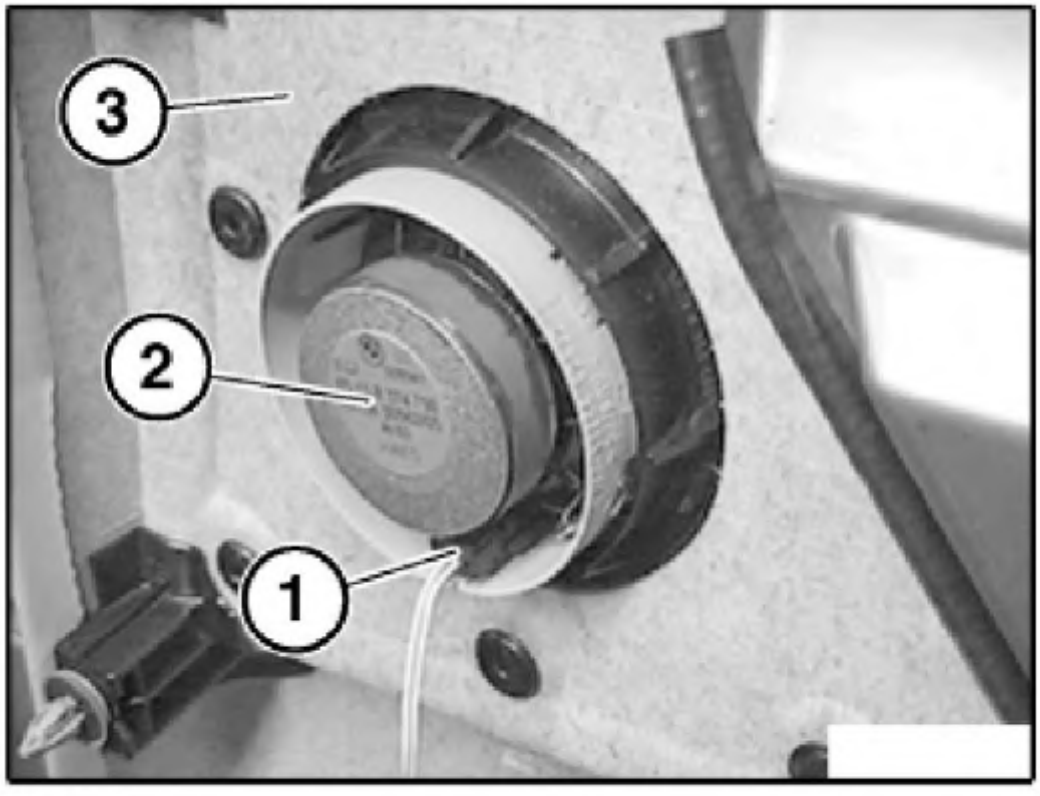


Fig. 349: Removing Door Trim Panel
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Clips (1) are longer than the other clips.

Clips (1) are gray, the other clips are white.

Fit all clips with sealing ring.

If necessary, replace faulty clips.

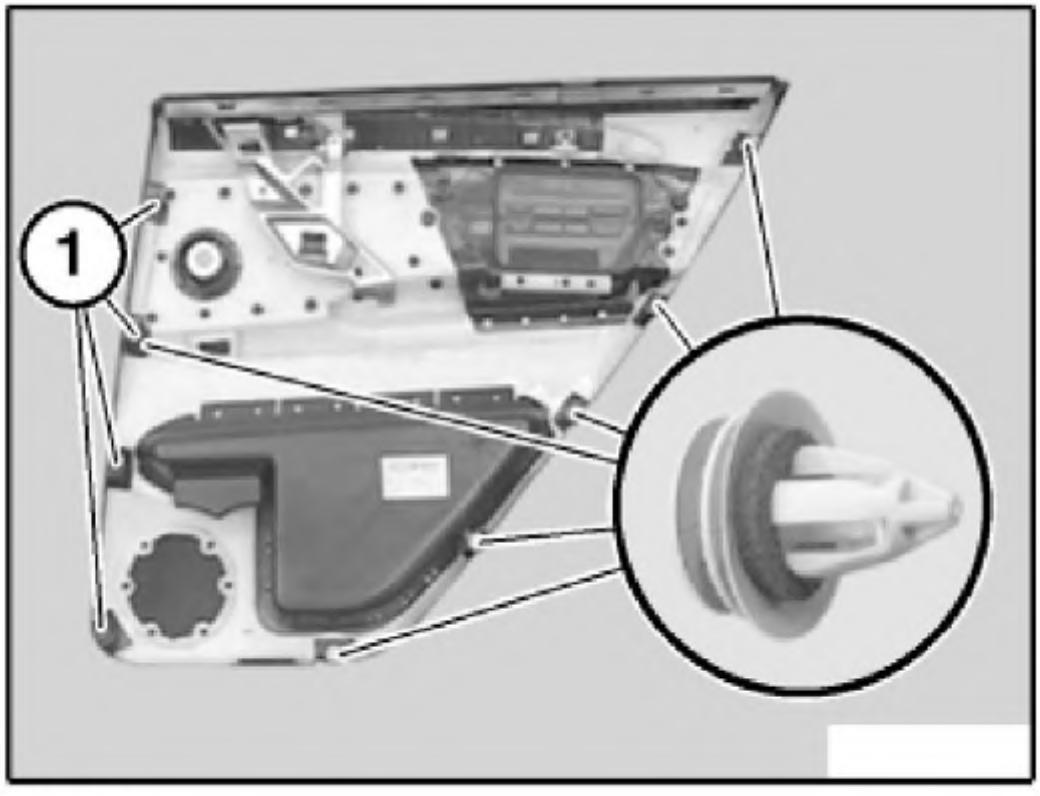


Fig. 350: Fitting Clips With Sealing Ring
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

After assembling the door trim panel proceed as follows:

- Open door window.
- Lock with vehicle key.
- Check whether linkage of safety button can move freely.
- If necessary, align linkages.

51 42 001 REPLACING LEFT OR RIGHT REAR DOOR TRIM

Remove rear door trim panel. See **51 42 000 Removing And Installing Rear Left Or Right Door Trim Panel** .

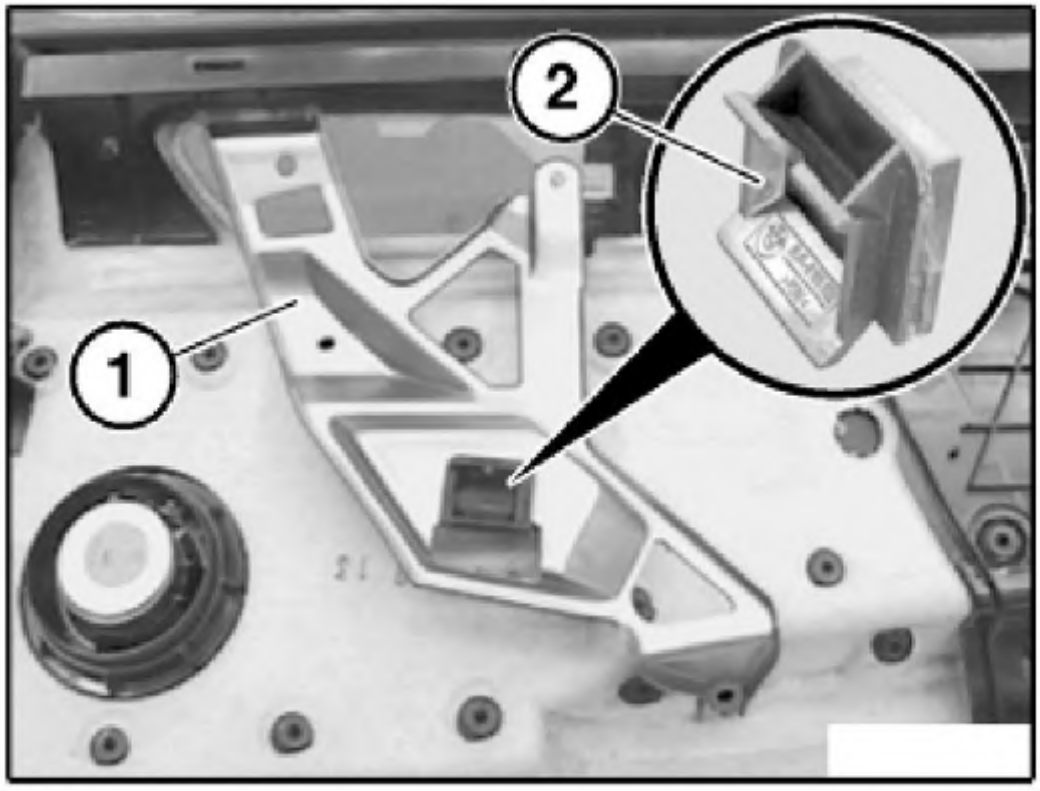
Version with Hifi system:

If necessary, remove mid-range speaker.

Version with illuminated inside door handle:

If necessary, remove inside door handle. See **51 21 225 Removing And Installing/Replacing Inside Door Handle In Left Or Right Front Door** .

Attach central clip (2) to frame (1).



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Fig. 351: Attaching Central Clip To Frame
Courtesy of BMW OF NORTH AMERICA, INC.

51 42 017 REMOVING AND INSTALLING/REPLACING COVER ON DOOR HANDLE, REAR LEFT OR RIGHT

Operation is identical to:

Remove cover on door handle at front. See **51 41 017 Removing And Installing/Replacing Cover On Door Handle, Front Left Or Right** .

51 42 018 REPLACING SPEAKER FRAME ON REAR LEFT OR RIGHT DOOR TRIM PANEL

Remove rear door trim panel. See **51 42 000 Removing And Installing Rear Left Or Right Door Trim Panel** .

Release plastic welded joints (1) and remove speaker frame (2).

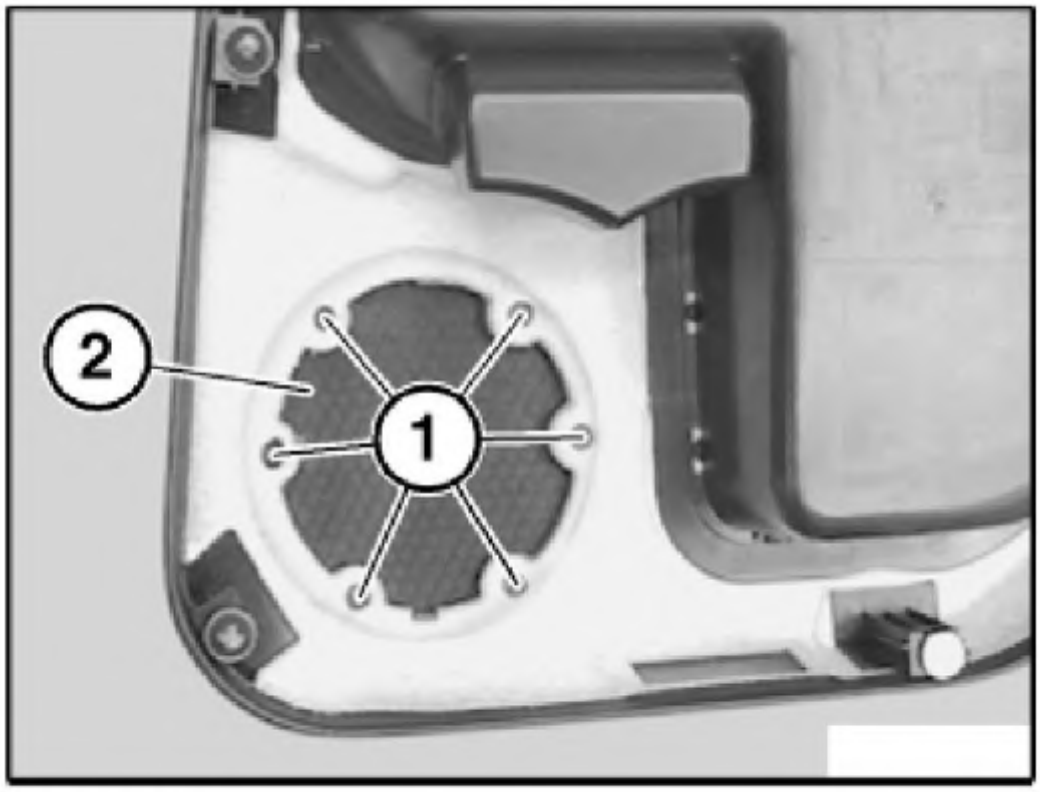


Fig. 352: Removing Speaker Frame
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Install new speaker frame (1).

Push locking washers (3) onto plastic pins (2).

Shorten all plastic pins (2) down to measurement (A).

A 2 mm

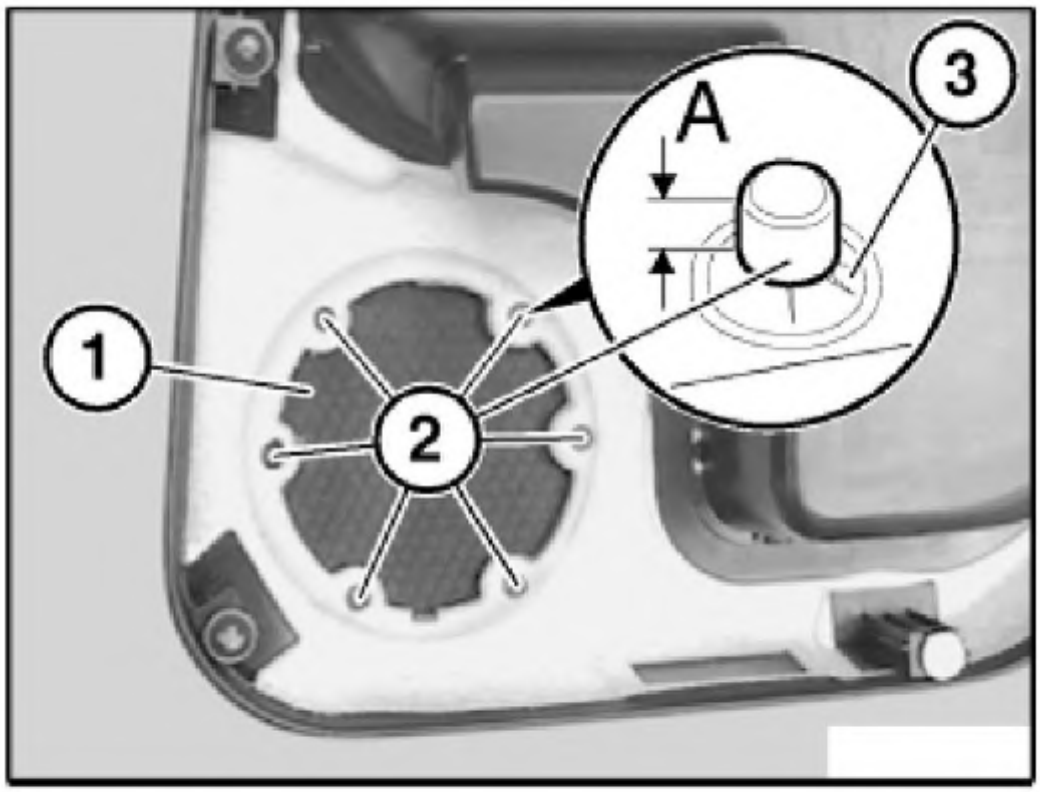


Fig. 353: Pushing Locking Washers Onto Plastic Pins
Courtesy of BMW OF NORTH AMERICA, INC.

51 42 019 REMOVING AND INSTALLING/REPLACING DOOR HANDLE ON DOOR TRIM PANEL, REAR LEFT OR RIGHT

Remove rear door trim panel. See **51 42 000 Removing And Installing Rear Left Or Right Door Trim Panel** .

Remove cover on door handle. See **51 41 017 Removing And Installing/Replacing Cover On Door Handle, Front Left Or Right** .

Release screw (1).

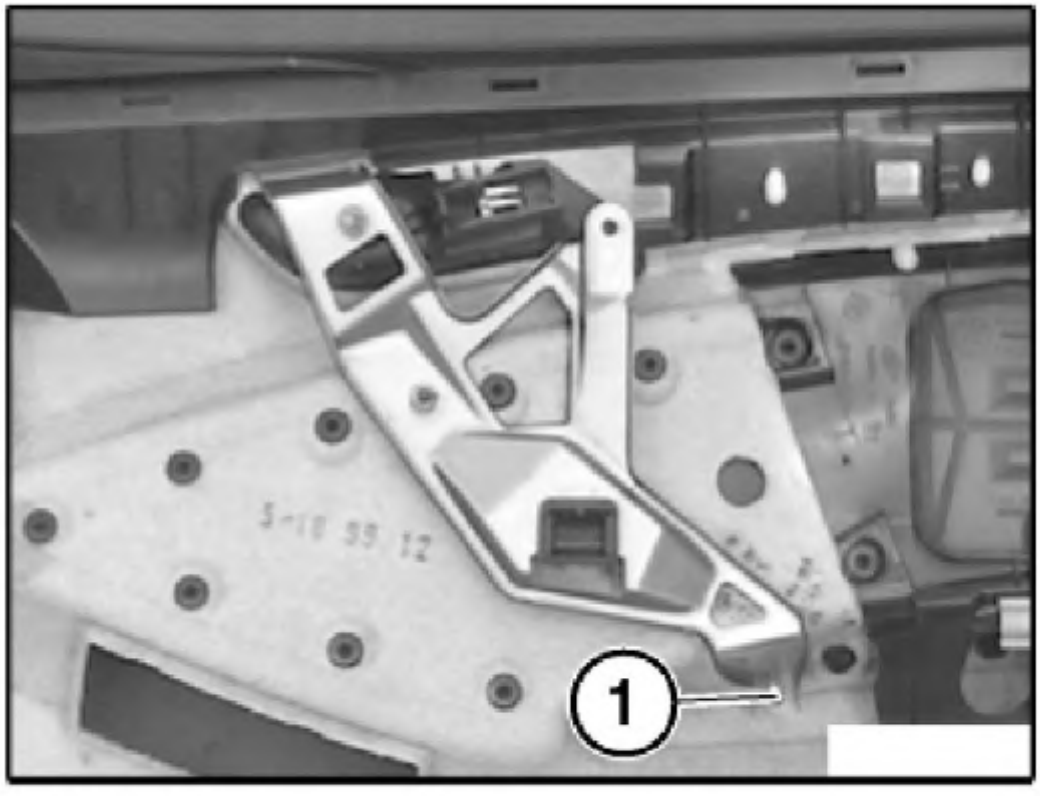


Fig. 354: Releasing Screw
Courtesy of BMW OF NORTH AMERICA, INC.

Release screw (1) and detach door handle (2) from door trim panel (3).

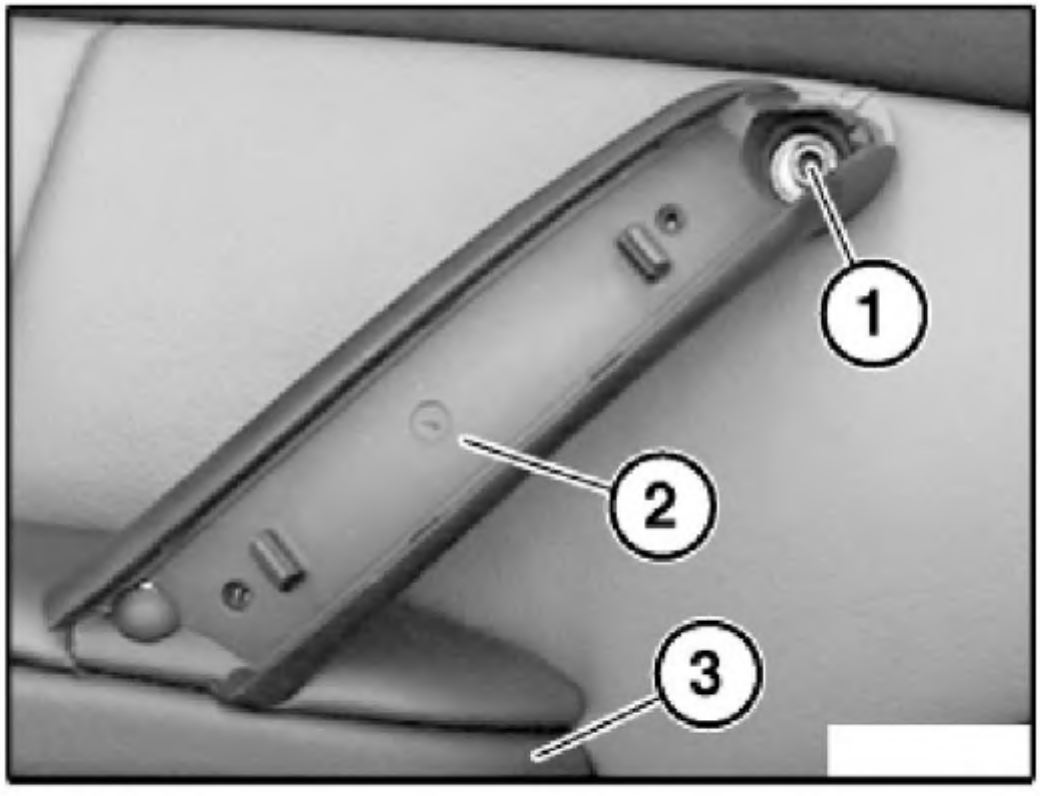
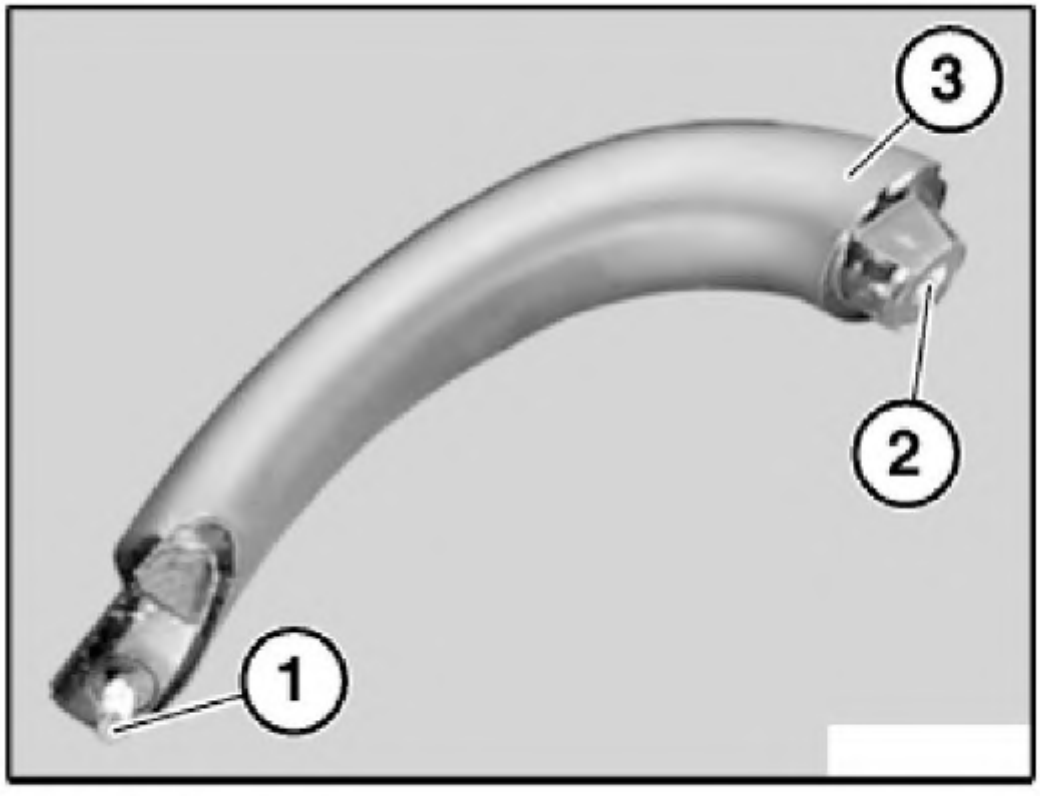


Fig. 355: Detaching Door Handle From Door Trim Panel
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Screw (1) and sleeve (2) on door handle (3) must not be damaged.



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Fig. 356: Checking Screw And Sleeve On Door Handle
Courtesy of BMW OF NORTH AMERICA, INC.

51 48 ... REMOVING AND INSTALLING/REPLACING SOUND INSULATION IN REAR DOOR, LEFT OR RIGHT

Special Tools Required

- 00 9 317

Removal & Installation

Remove rear door trim panel. See **51 42 000 Removing And Installing Rear Left Or Right Door Trim Panel** .

If necessary, remove airbag module in rear door. See **SIDE AIR BAG MODULE** .

Using special tool 00 9 317 (trim panel wedge), lever out sealing bead (1) of sound insulation (2) completely or

if necessary partially.

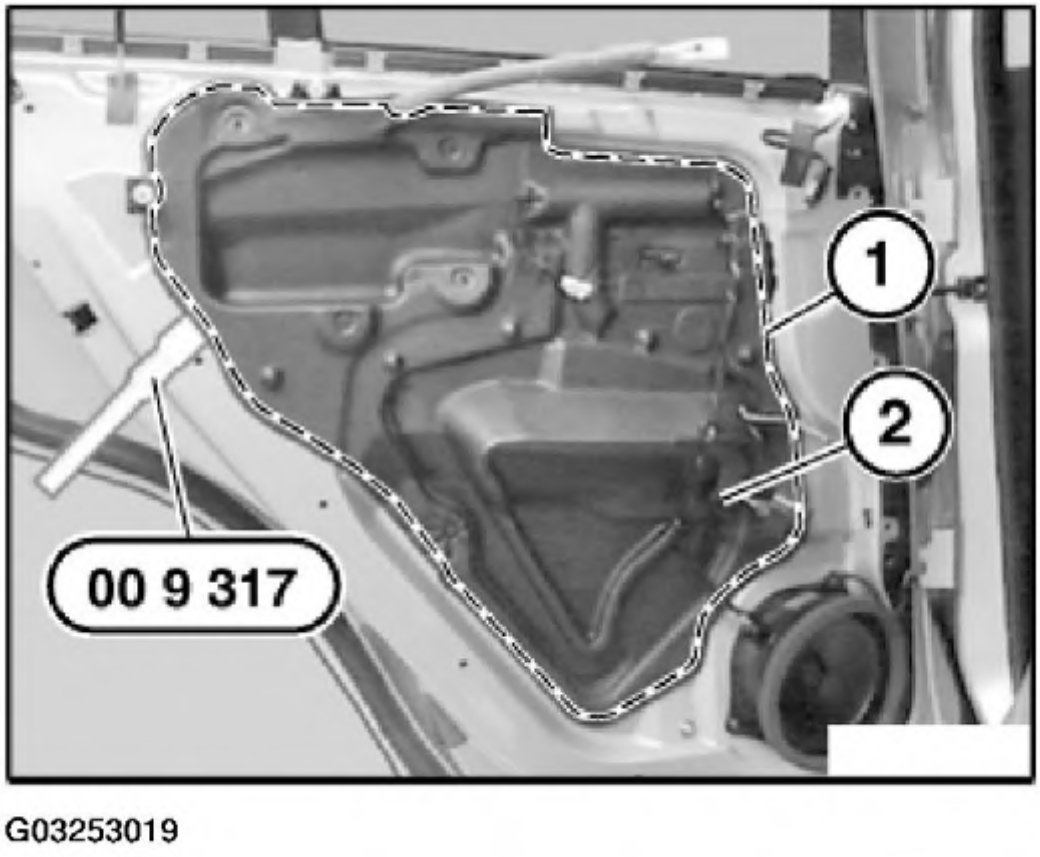


Fig. 357: Removing Sealing Bead
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

In event of replacement or partial detachment, lay butylene tape (sourcing reference: BMW Parts) on inner door plate or sound insulation.

Seal cable penetrations with butylene tape.

NOTE: Position of butylene tape (1) on inner door plate.

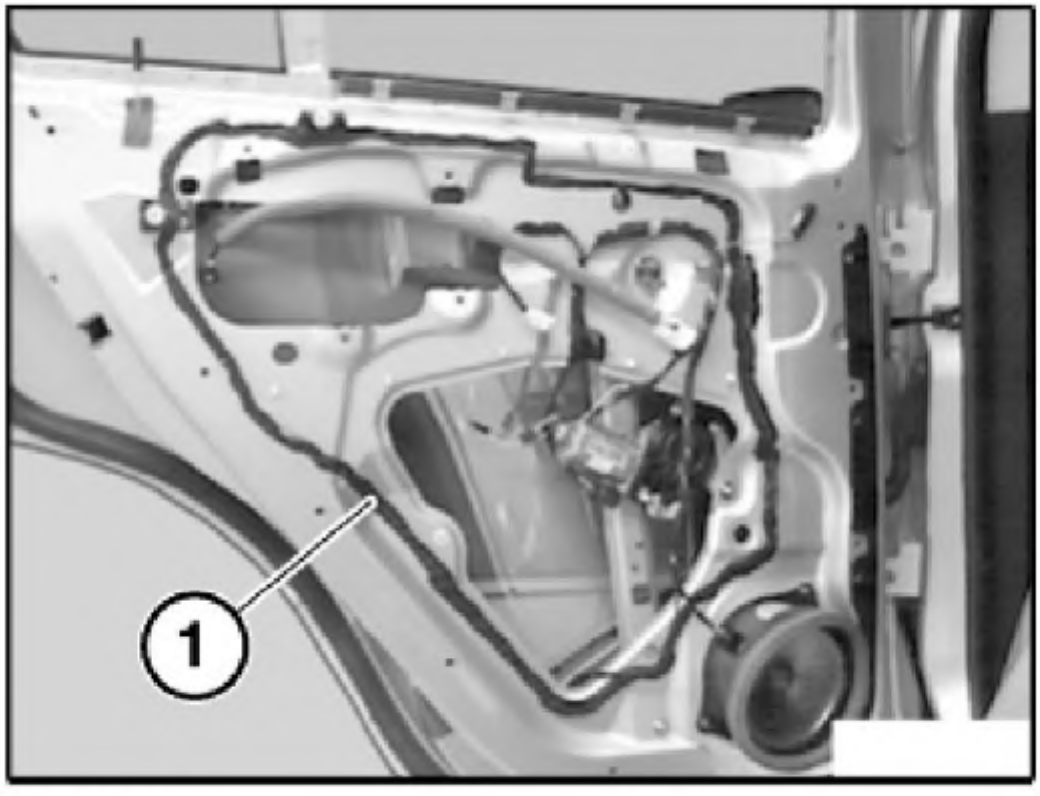


Fig. 358: Positioning Of Butylene Tape On Inner Door Plate
Courtesy of BMW OF NORTH AMERICA, INC.

NOTE: Position of butylene tape (1) on sound insulation (2).

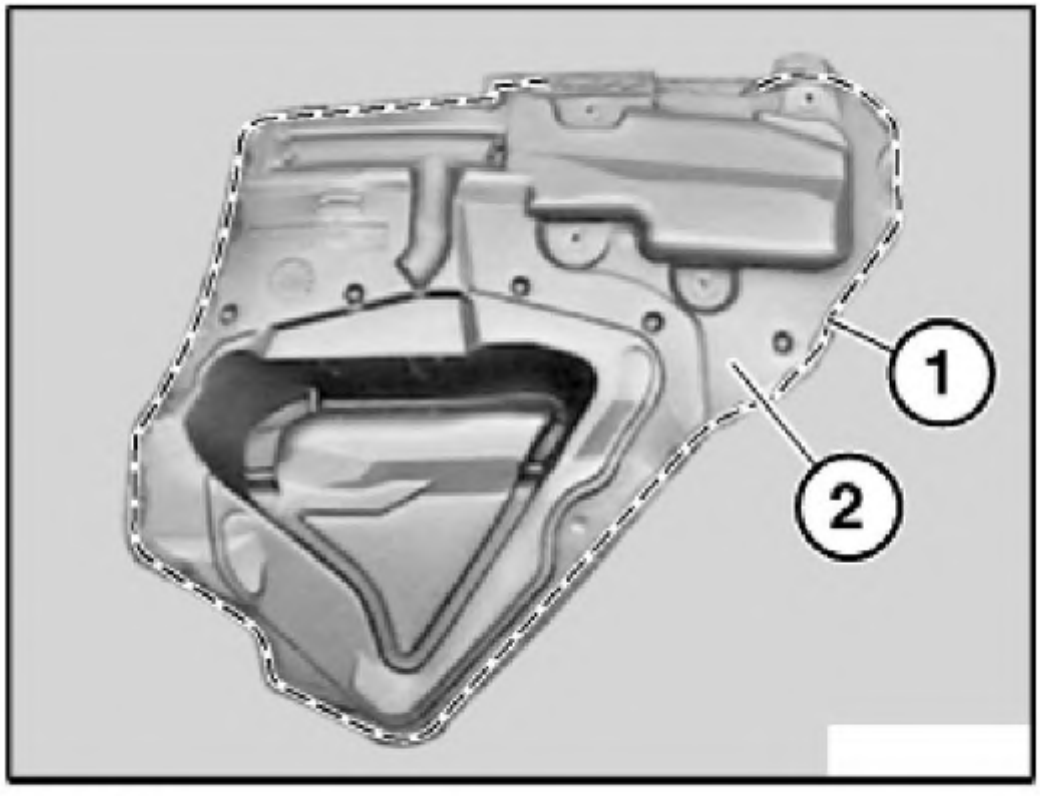


Fig. 359: Positioning Of Butylene Tape On Sound Insulation
Courtesy of BMW OF NORTH AMERICA, INC.

Clean specified adhesive area with adhesive cleaner (sourcing reference: BMW Parts).

Air drying time: 1 minute

CAUTION: The adhesive areas must be dry and free from dust and grease. After cleaning, do not touch the adhesive areas with bare hands.

Lay single row of 6 mm dia. butylene tape or double row of 3 mm dia. tape (sourcing reference: BMW Parts Service) in specified adhesive area.

Heat butylene tape (hot air blower) and press down firmly on sound insulation all around.

Contact pressure with hand roller: approx. 30 N/cm^2

Manual contact pressure: approx. 10 N/cm^2

NOTE: Firm thumb pressure has approx. 50 N/cm^2

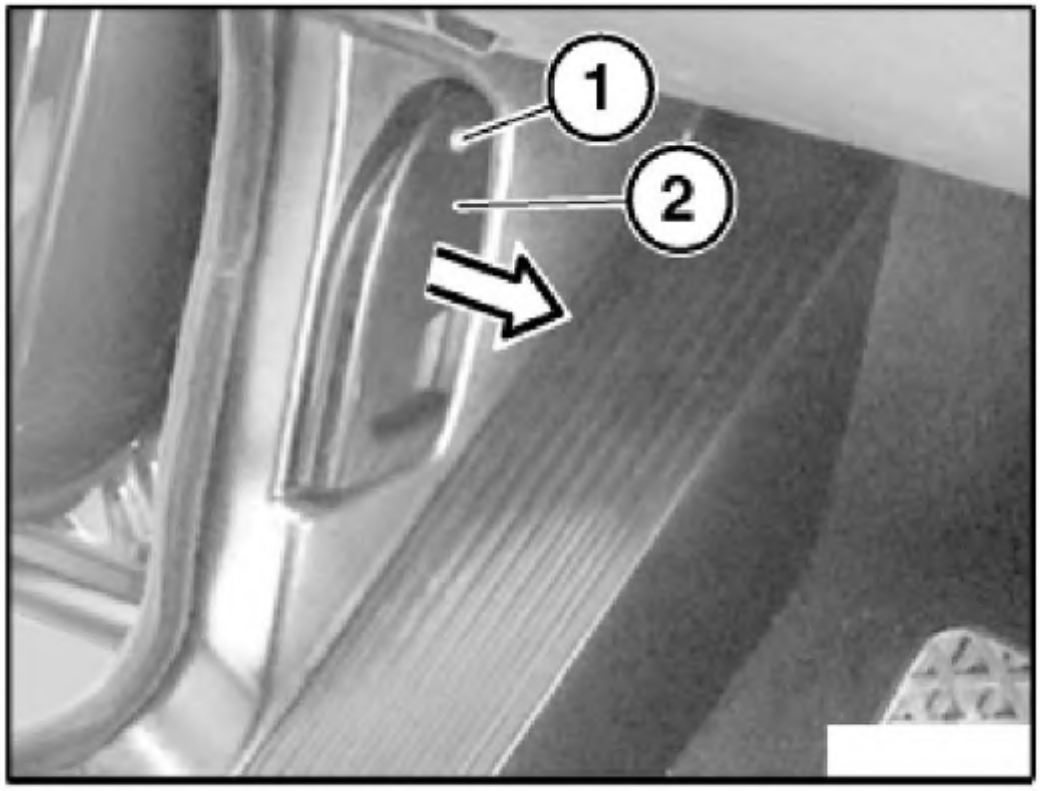
SIDE COVERING WITH ARM RESTS

51 43 070 REMOVING AND INSTALLING/REPLACING SIDE TRIM PANEL, FOOTWELL, ON A-PILLAR, LEFT

Remove trim panel for pedal assembly. See **51 45 185 Removing And Installing/Replacing Trim For Pedal Assembly** .

Remove entrance cover strip at front (inside).

Release screw (1) and remove release lever (2).



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Fig. 360: Removing Release Lever

Courtesy of BMW OF NORTH AMERICA, INC.

Unclip running board (1) on outside from below towards top and remove towards interior.

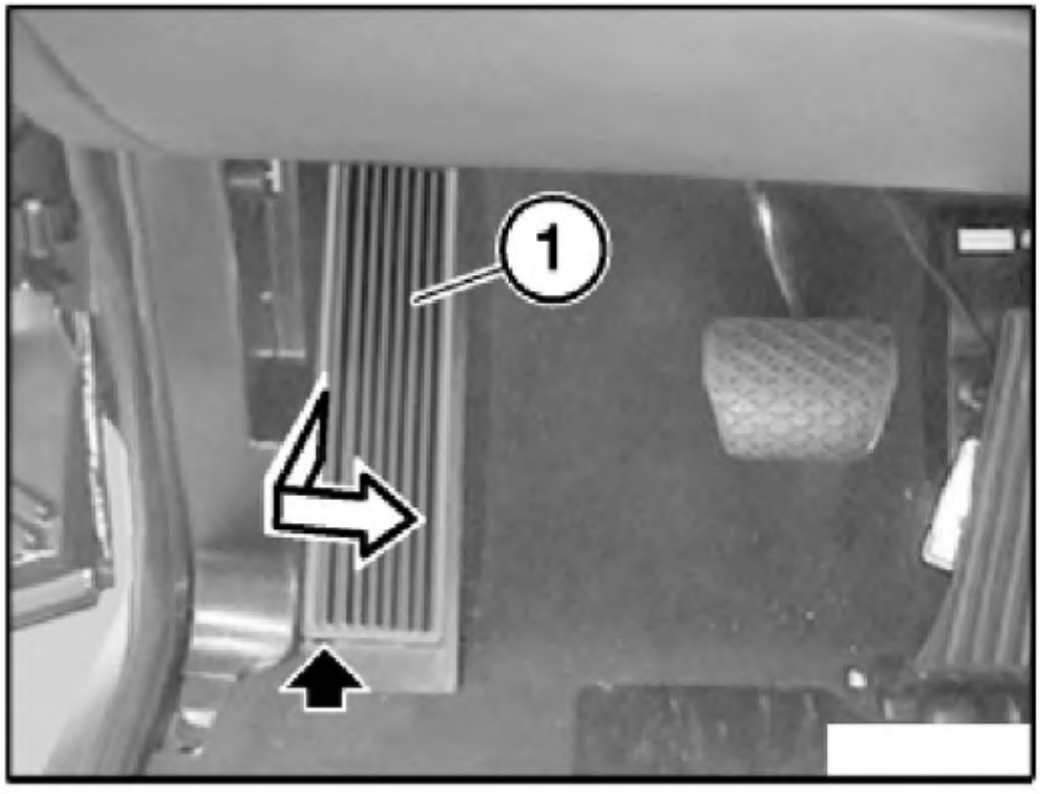


Fig. 361: Removing Towards Interior
Courtesy of BMW OF NORTH AMERICA, INC.

Detach mucket (1) in area of footwell trim (3).

Release screws (2).

Remove footwell trim (3) towards front/interior.

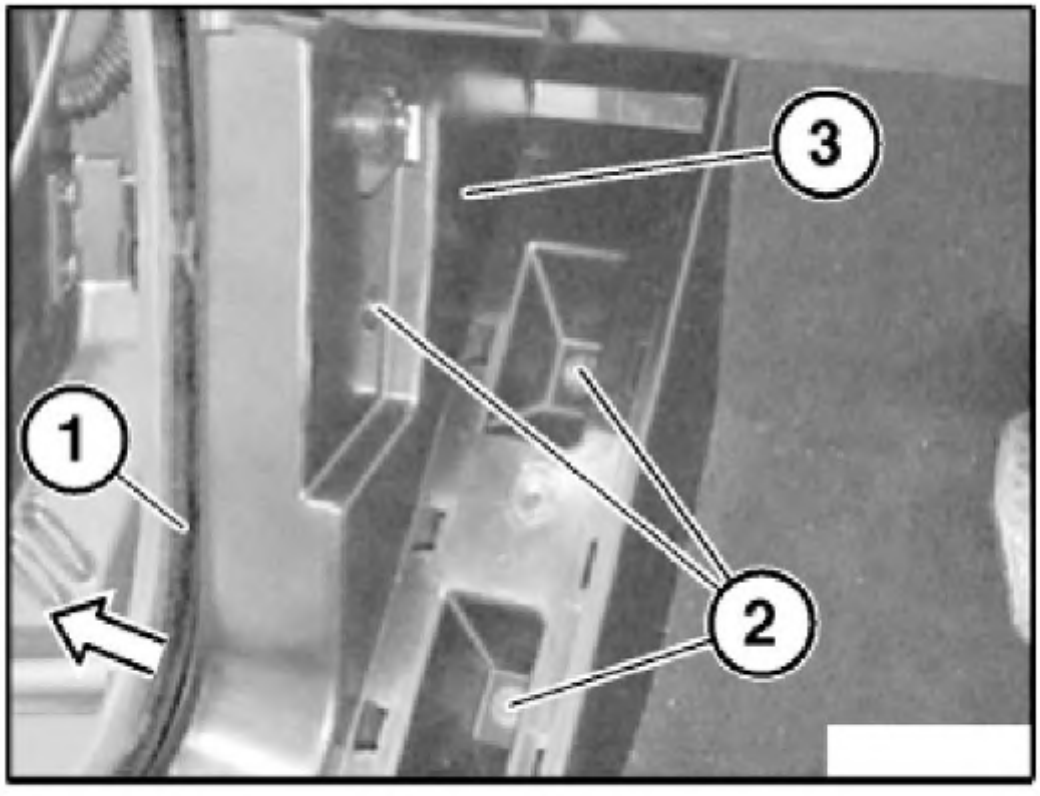


Fig. 362: Removing Footwell Trim Towards Front/Interior
Courtesy of BMW OF NORTH AMERICA, INC.

51 43 075 REMOVING AND INSTALLING/REPLACING SIDE TRIM PANEL, FOOTWELL, ON A-PILLAR, RIGHT

Remove bottom right trim panel from instrument panel. See **51 45 181 Removing And Installing/Replacing Trim For Instrument Panel, Bottom Right** .

Detach mucket (1) in area of side trim panel (2).

Unclip clips (3) towards interior.

Withdraw side trim panel (2) from entrance cover strip (4) and remove towards interior.

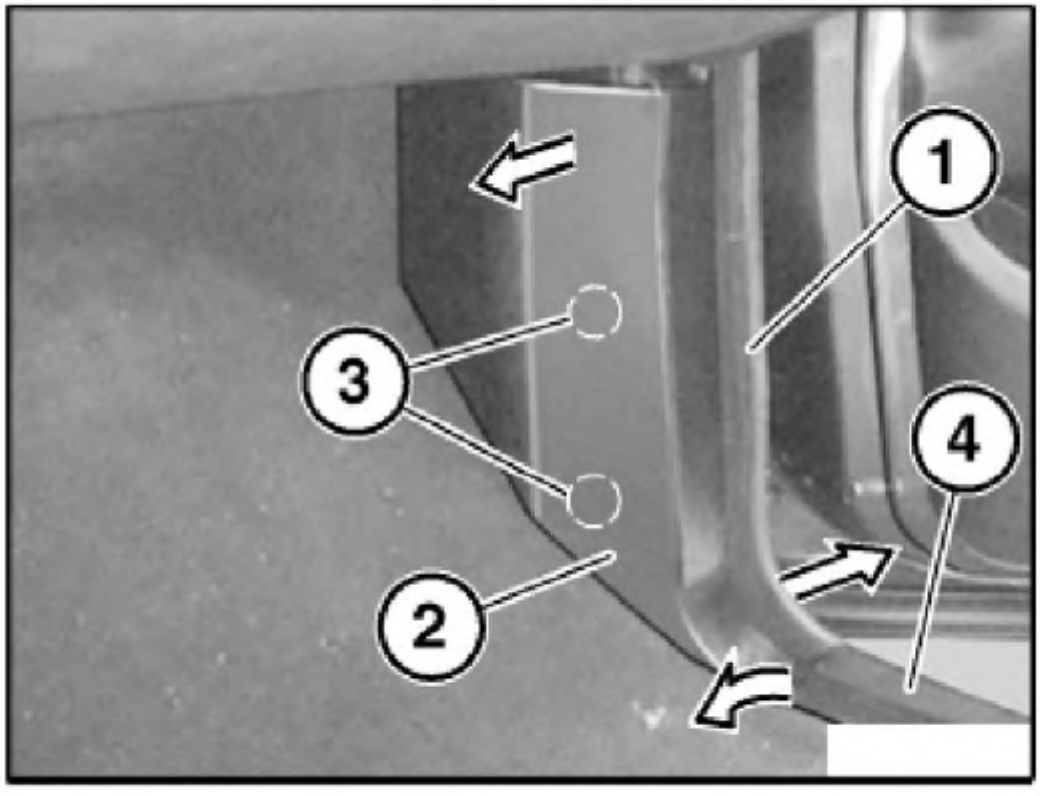
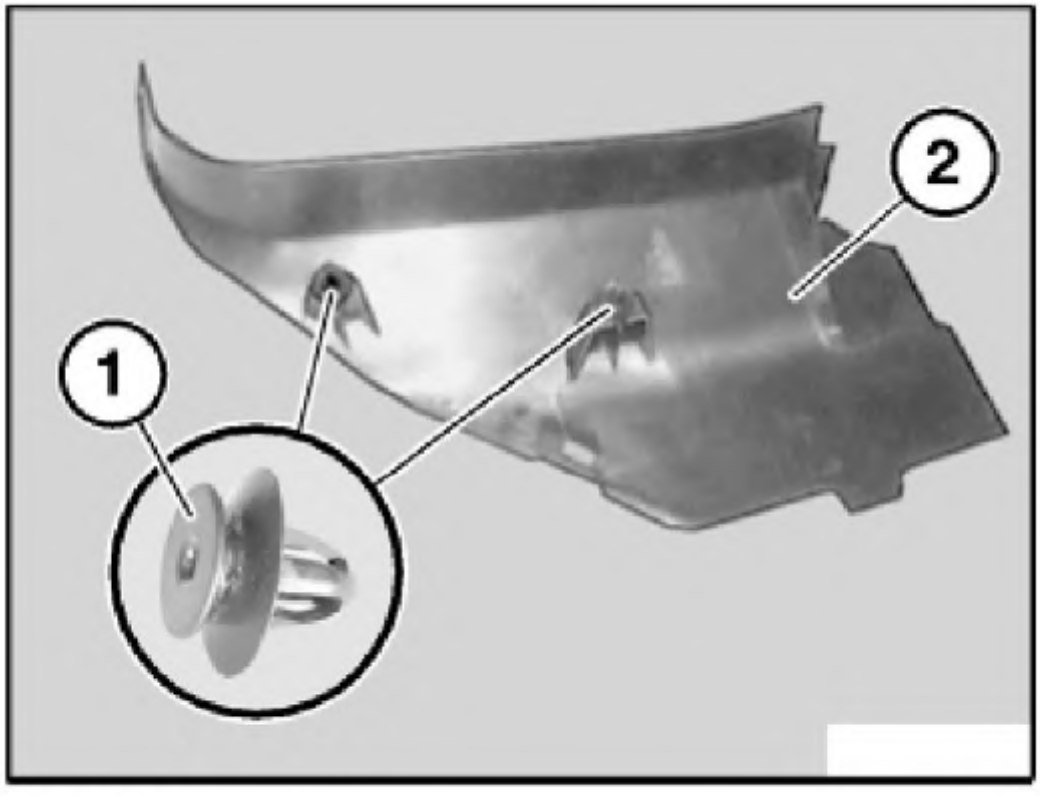


Fig. 363: Uncliping Clips Towards Interior
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

If necessary, replace faulty clips (1) in side trim panel (2).



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Fig. 364: Checking Clips In Side Trim Panel
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Insert guide (1) of side trim panel (2) into slot in carpet.

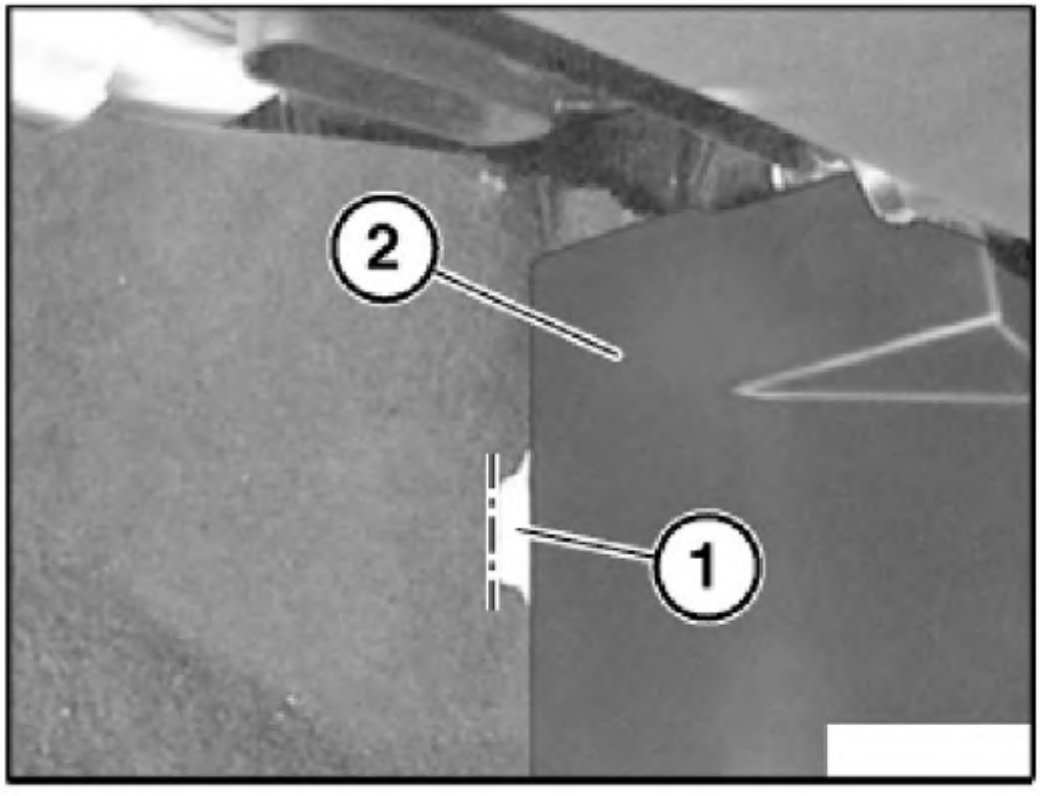


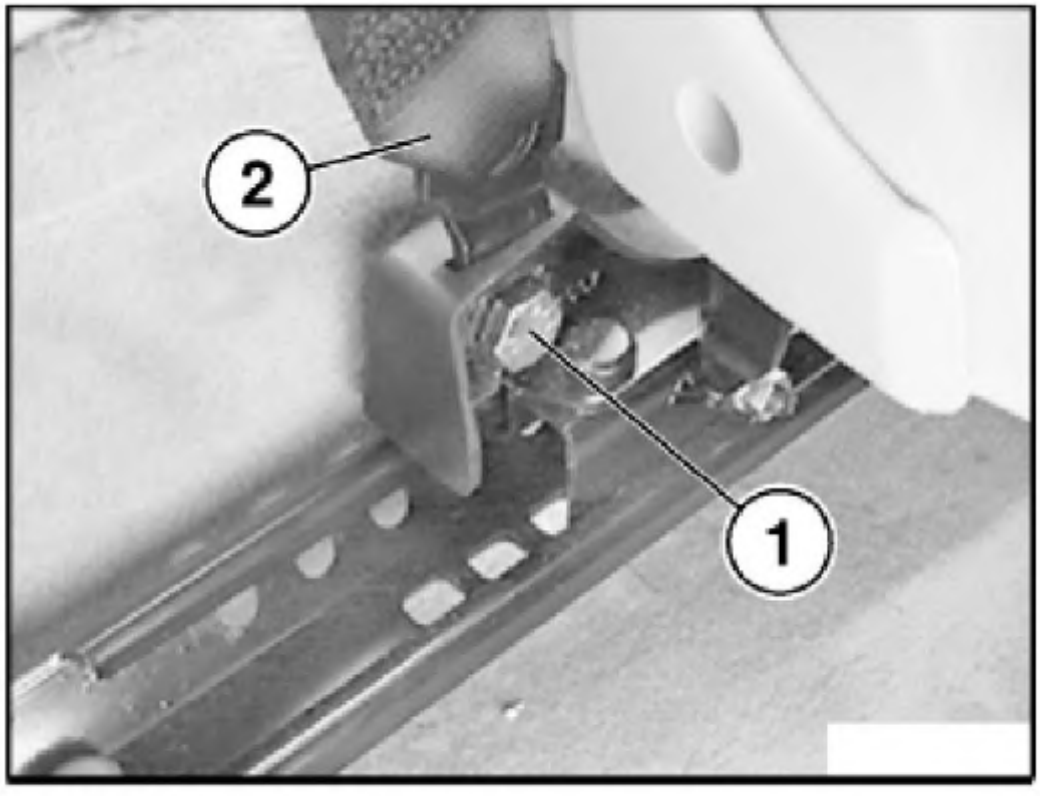
Fig. 365: Inserting Guide Of Side Trim Panel Into Slot In Carpet
Courtesy of BMW OF NORTH AMERICA, INC.

51 43 148 REMOVING AND INSTALLING OR REPLACING TRIM ON LEFT OR RIGHT DOOR PILLAR (TOP)

Move front seat upwards.

Release seatbelt screw (1) on front seat and feed out seatbelt strap (2).

Installation:



G03253028

Fig. 366: Releasing Seatbelt Screw On Front Seat
Courtesy of BMW OF NORTH AMERICA, INC.

Subsequent work is described in:

Removing panel for door pillar (bottom).

51 43 150 REMOVING AND INSTALLING OR REPLACING TRIM FOR LEFT OR RIGHT DOOR PILLAR (BOTTOM)

Remove front entrance cover strip. See **51 47 000 Removing And Installing/Replacing The Front (Inside) Left Or Right Rocker Panel Strip** .

Remove rear entrance cover strip (2).

Partially remove mucket from B-pillar finisher.

Unclip clips (1) in lower panel.

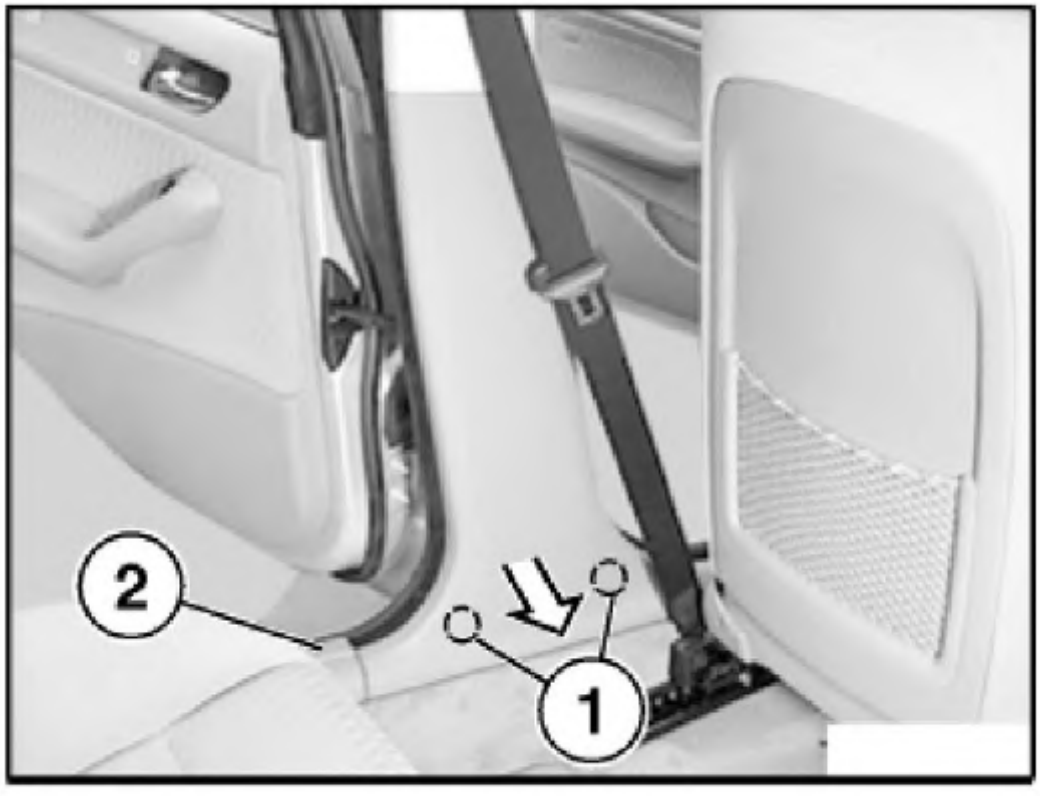


Fig. 367: Uncliping Clips In Lower Panel
Courtesy of BMW OF NORTH AMERICA, INC.

Unclip clips (1) in lower panel.

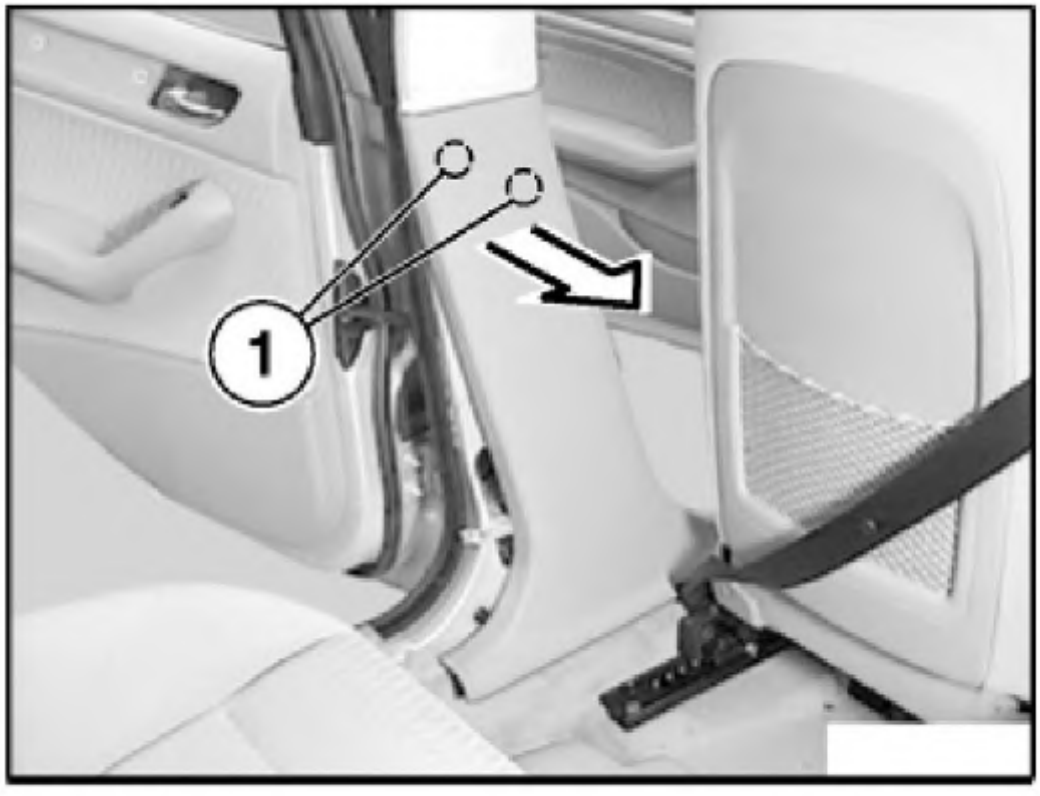


Fig. 368: Uncliping Clips In Lower Panel
Courtesy of BMW OF NORTH AMERICA, INC.

Unclip clip (1) in upper panel.

Tilt upper panel upwards as far as possible.

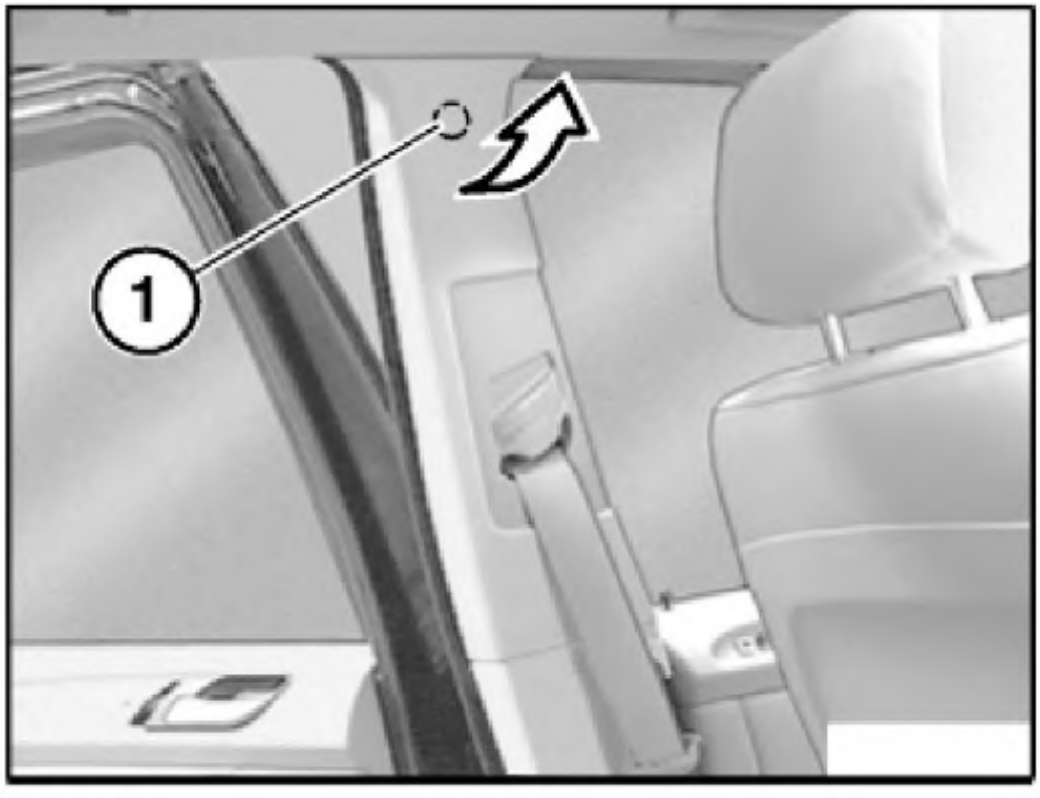
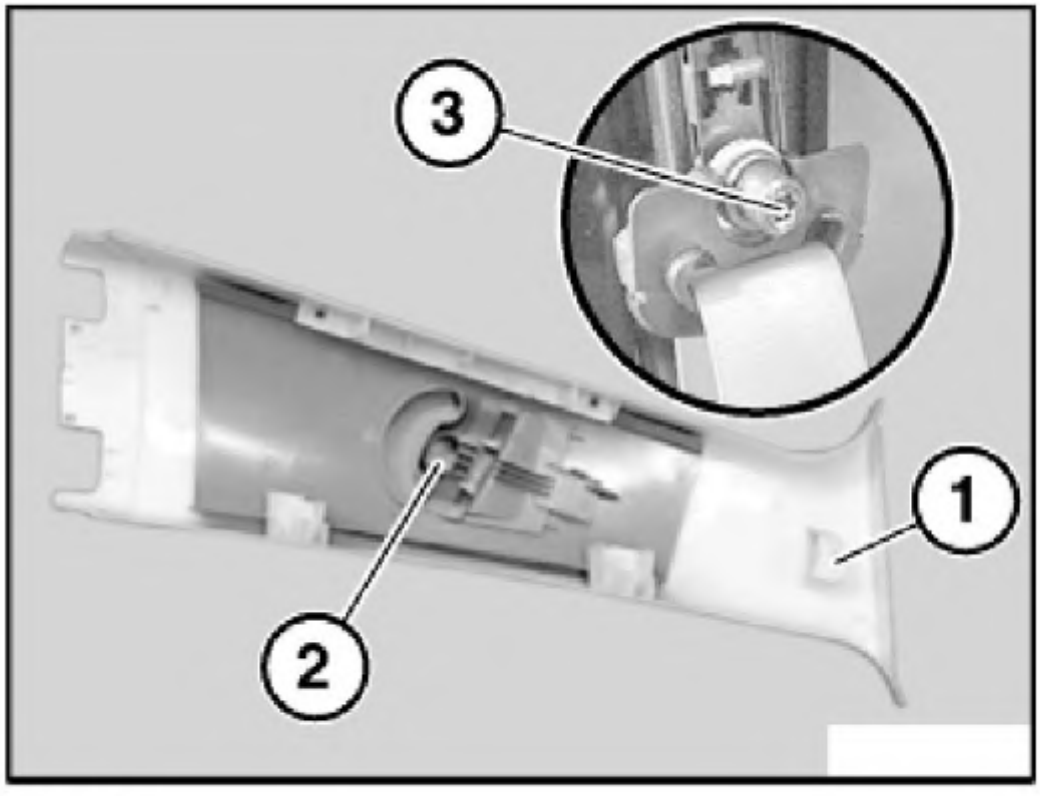


Fig. 369: Uncliping Clip In Upper Panel
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

If necessary, replace defective clip (1).

Belt adjustment fixture (2) must enclose head of belt screw (3).



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Fig. 370: Checking Clip
Courtesy of BMW OF NORTH AMERICA, INC.

Detach lower panel (1) carefully from upper panel (2).

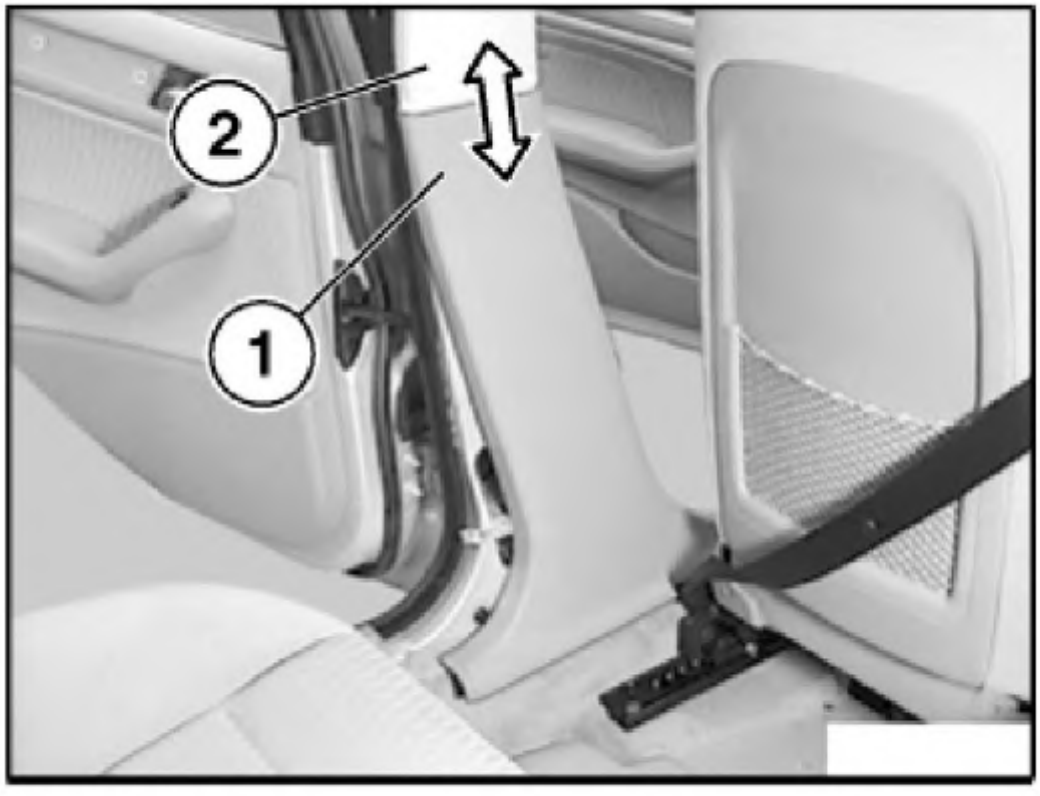


Fig. 371: Detaching Lower Panel
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

If necessary, replace defective clips (1).

Guides (2) on trim (3) must not be damaged.

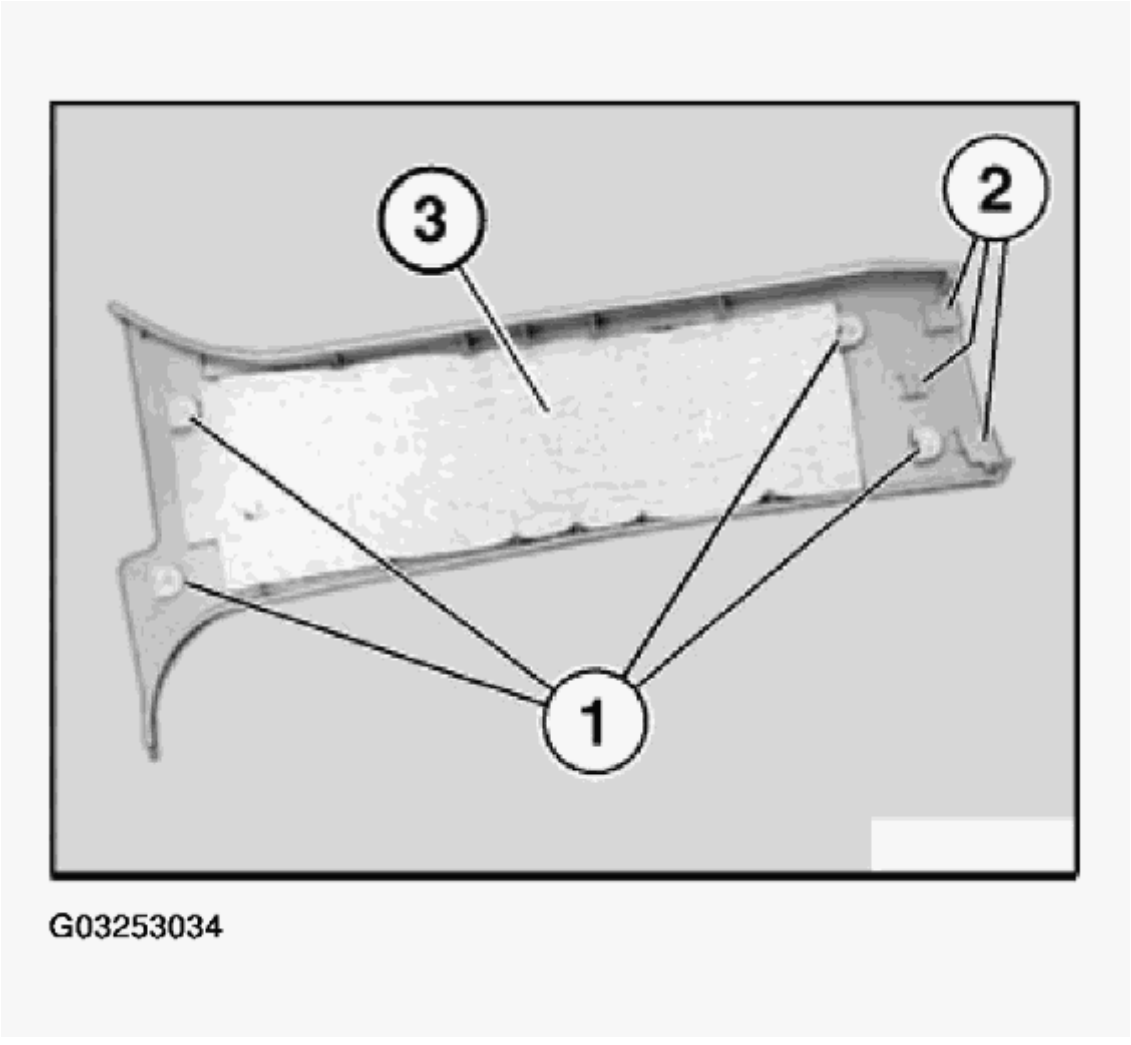


Fig. 372: Checking Clips
Courtesy of BMW OF NORTH AMERICA, INC.

51 43 201 REMOVING AND INSTALLING/REPLACING PANEL FOR ROOF PILLAR AT FRONT (A-PILLAR), LEFT OR RIGHT

WARNING: Follow safety instructions for working on cars with airbag systems.

IMPORTANT: Do not use sharp-edged tools to remove trim (risk of damage to head air bag).

Detach mucket on outside in area of panel (1).

Remove plate (2).

Unscrew bolt (3).

Tightening torque, see 51 43 2AZ in **BODY EQUIPMENT - TIGHTENING TORQUES** .

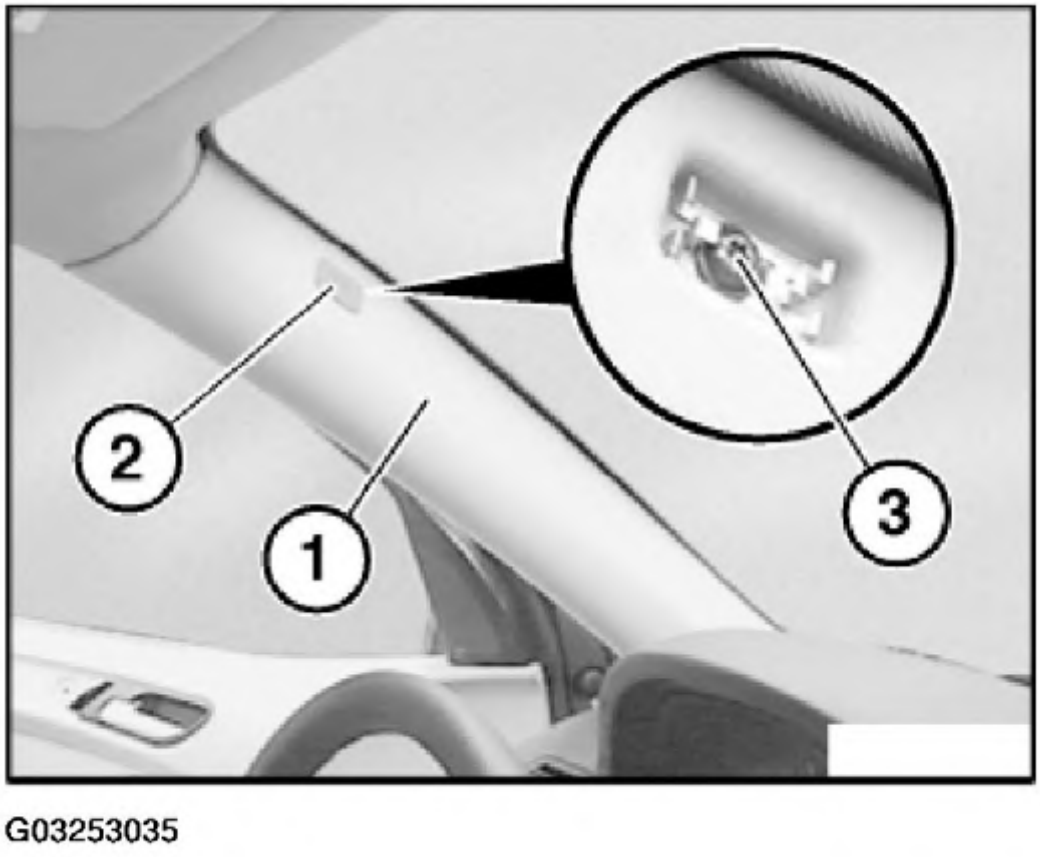


Fig. 373: Unscrewing Bolt
Courtesy of BMW OF NORTH AMERICA, INC.

Unclip panel (1) at top and detach towards top.

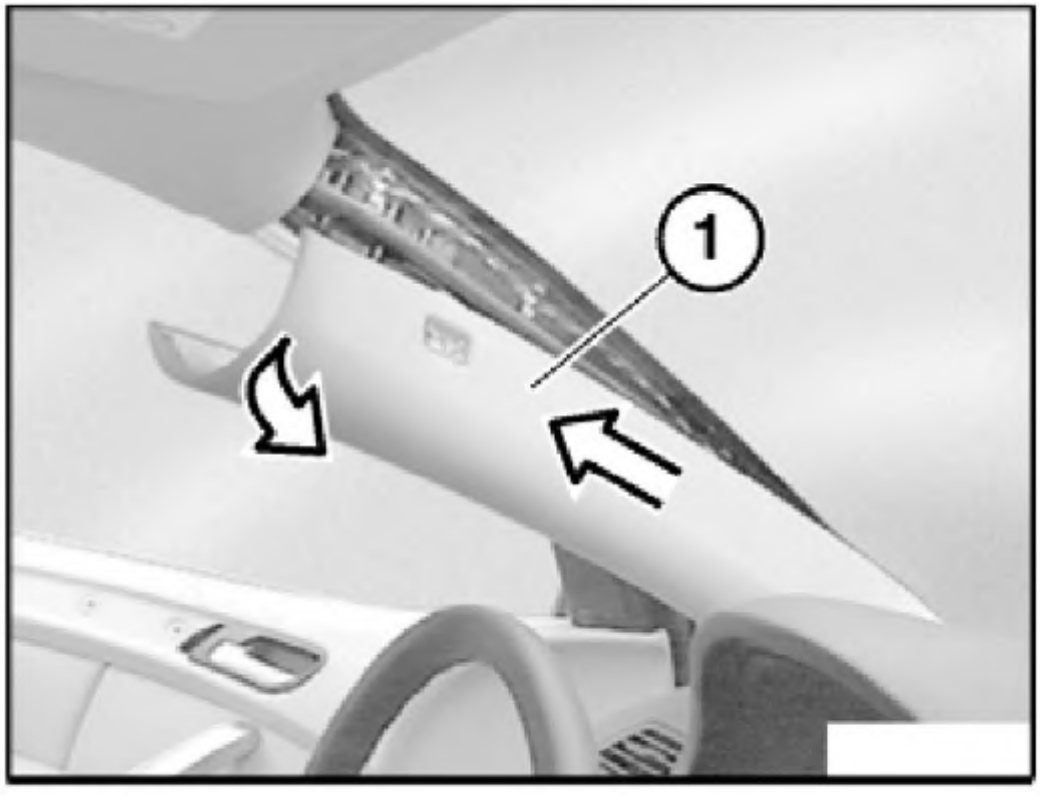


Fig. 374: Uncliping Panel At Top And Detach Towards Top
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

If necessary, replace faulty clips (1).

Align plastic lug (2) to retainer in A-pillar.

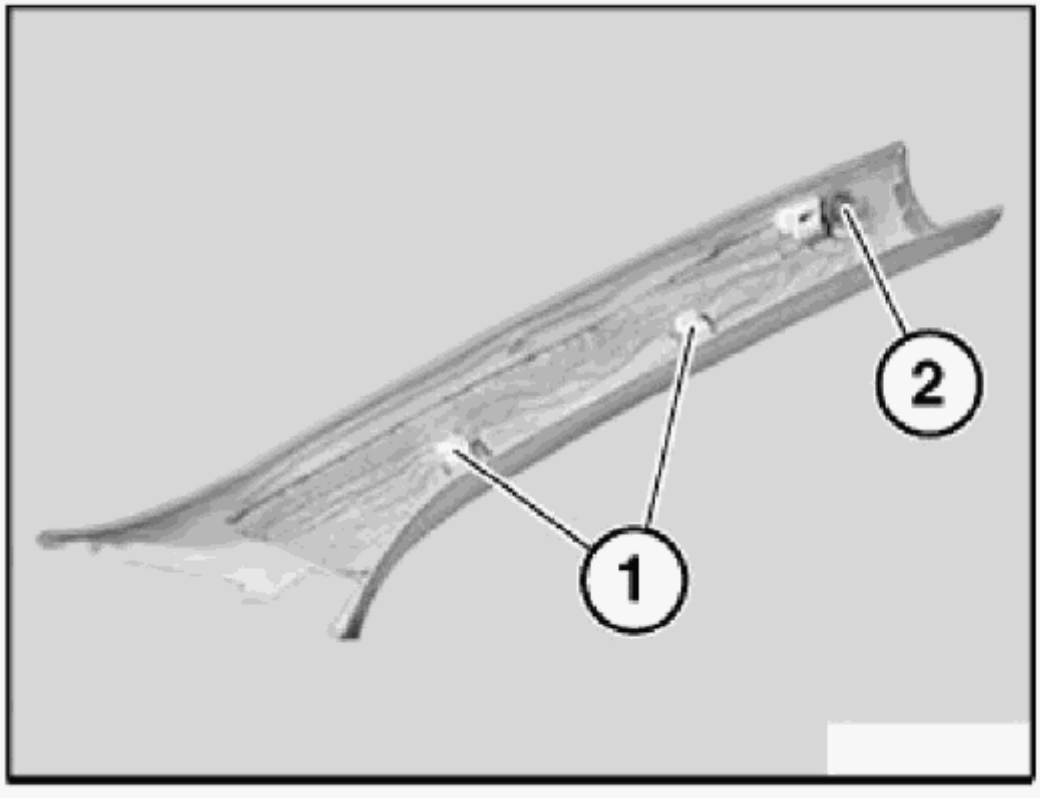


Fig. 375: Aligning Plastic Lug To Retainer In A-Pillar
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Viewing direction through windscreen:

Insert panel for roof pillar (1) into groove (2) of trim panel for instrument panel.

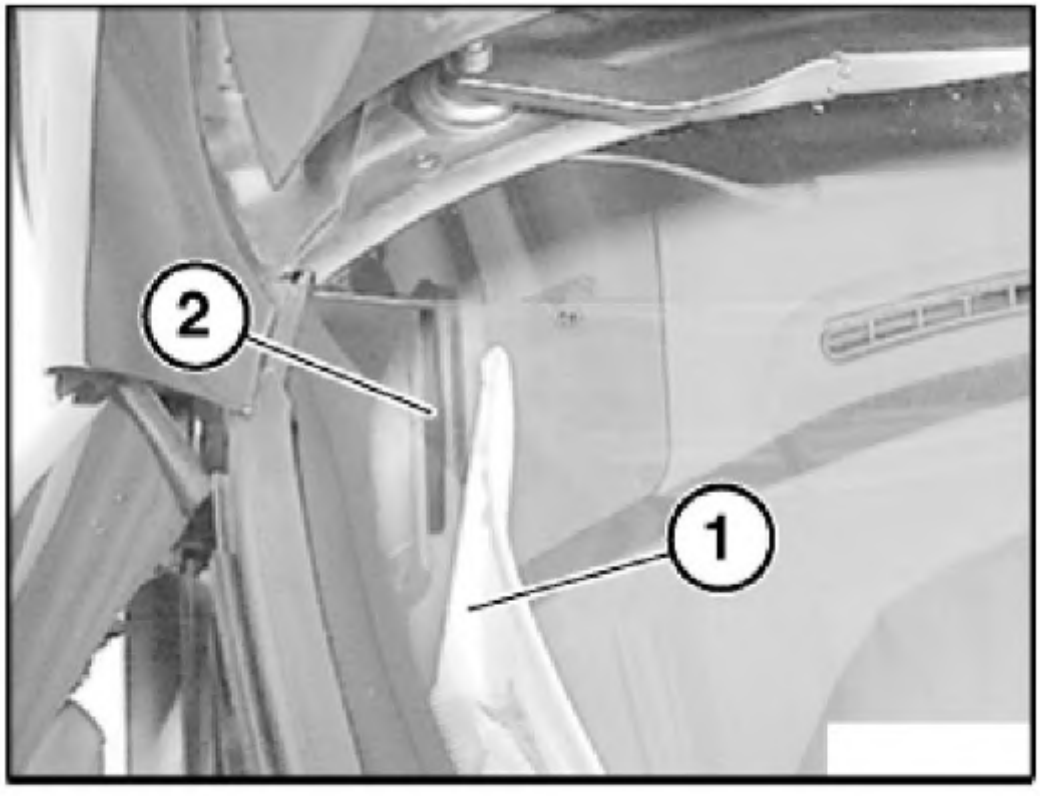


Fig. 376: Inserting Panel For Roof Pillar Into Groove
Courtesy of BMW OF NORTH AMERICA, INC.

51 43 251 REMOVING AND INSTALLING/REPLACING TRIM PANEL FOR LEFT OR RIGHT REAR ROOF PILLAR (C PILLAR)

Remove rest side section on rear seat backrest. See **52 26 008 REMOVING AND INSTALLING/REPLACING SIDE SECTION ON REAR SEAT BACKREST** .

Remove rear seat.

Release belt nut (1).

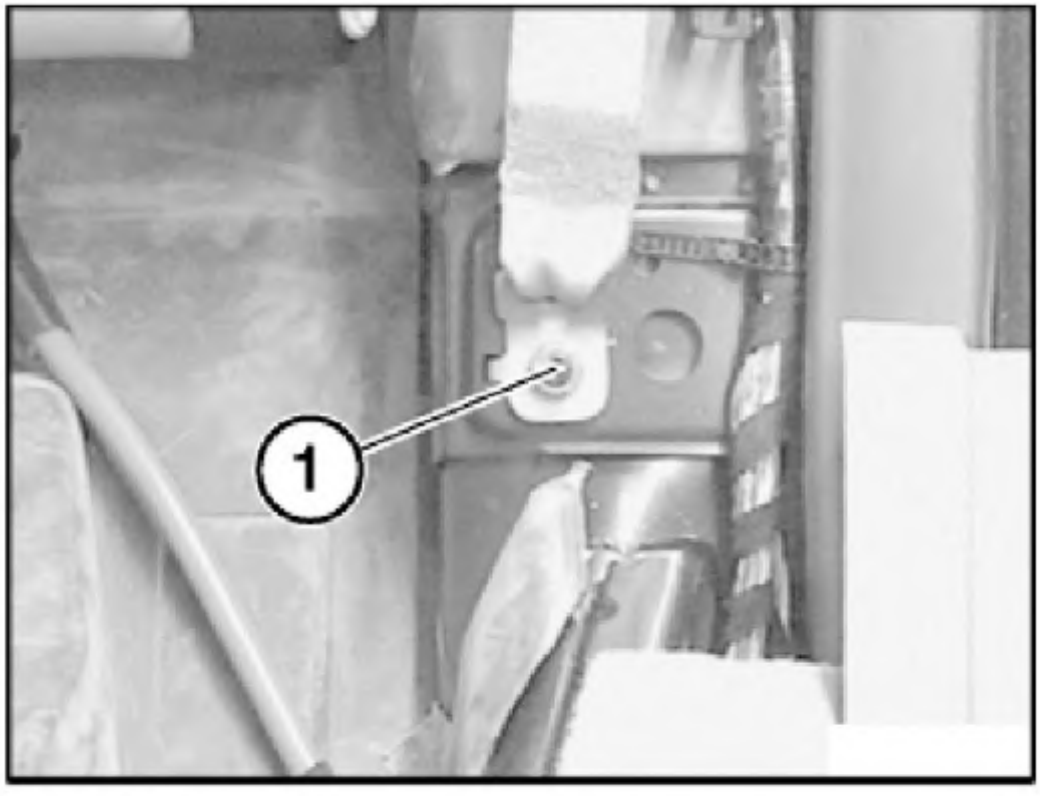


Fig. 377: Releasing Belt Nut
Courtesy of BMW OF NORTH AMERICA, INC.

Lift out expanding rivet (1).

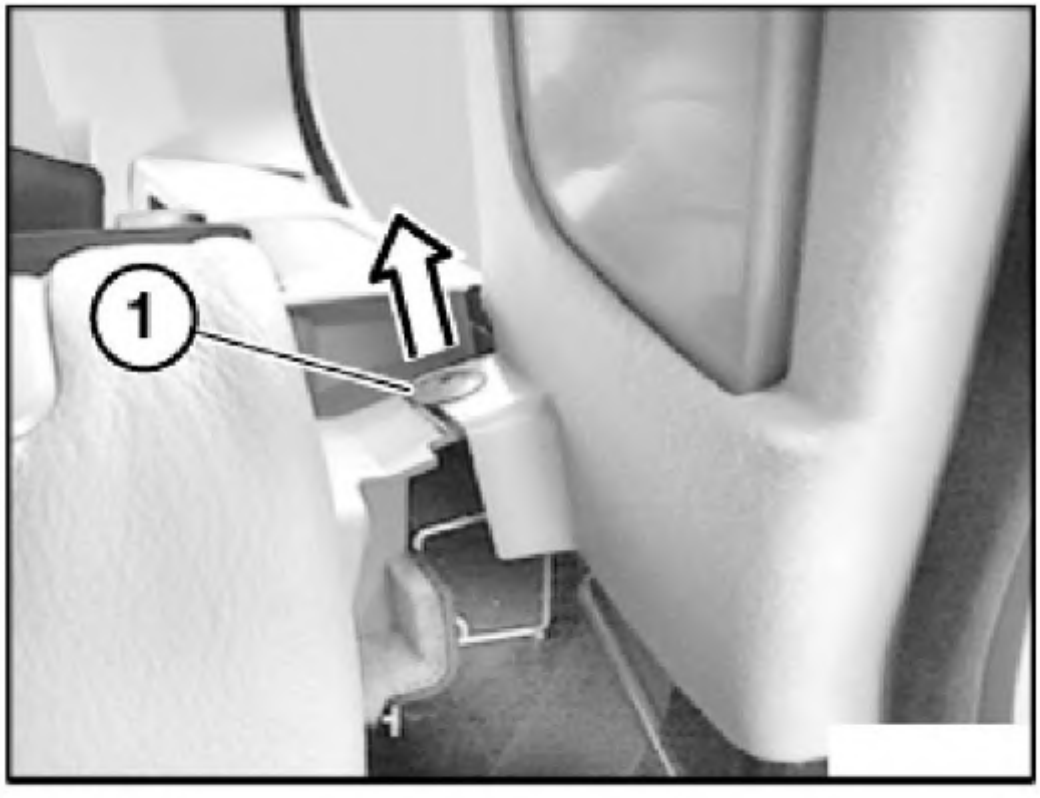
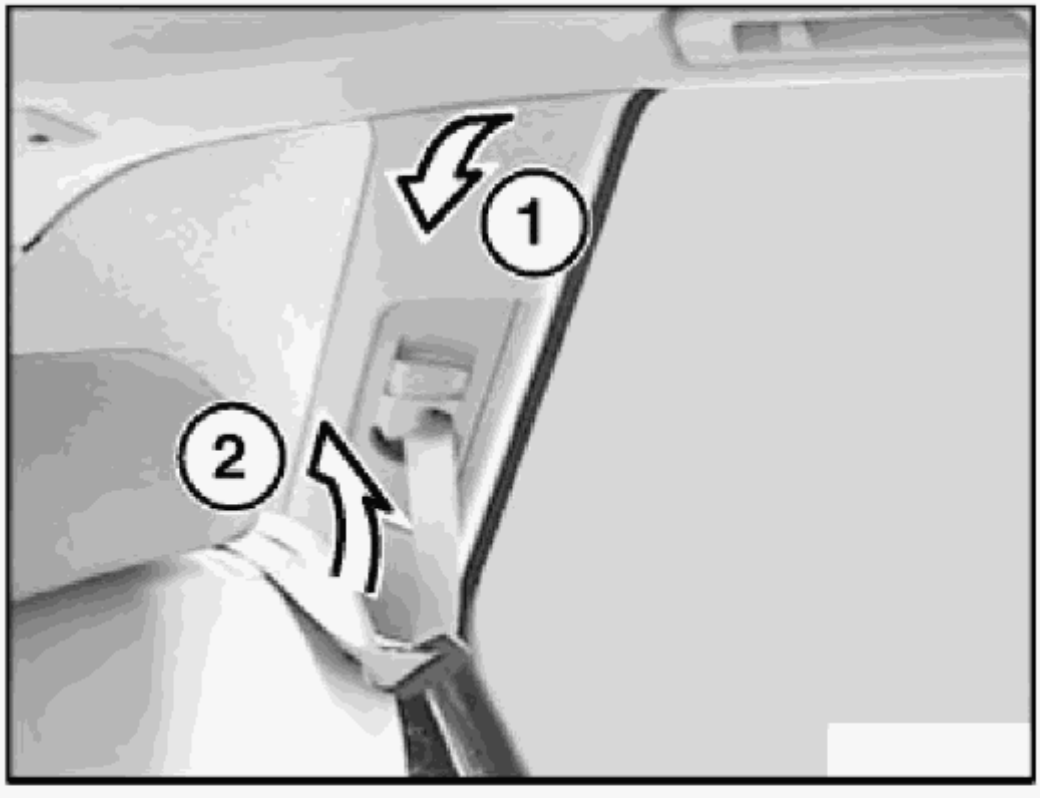


Fig. 378: Lifting Out Expanding Rivet
Courtesy of BMW OF NORTH AMERICA, INC.

1. Unclip panel at top.
2. Pull out panel towards top.

Feed out seat belt.



1. Unclip panel at top.
2. Pull out panel towards top.

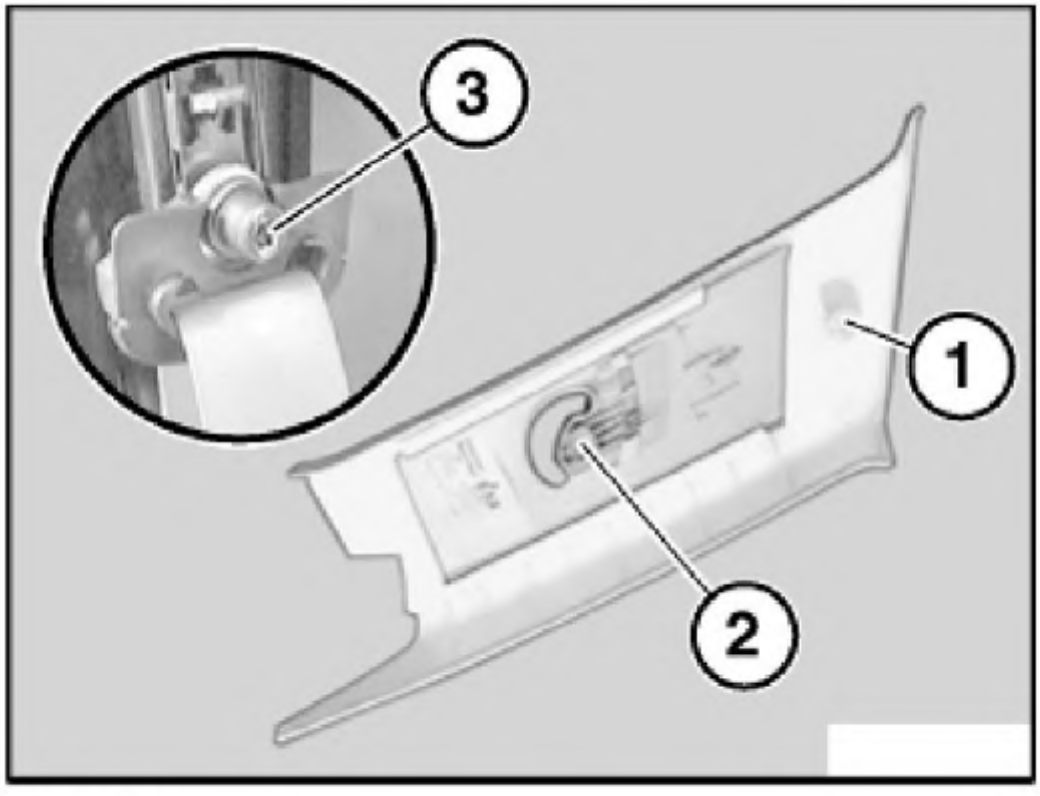
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Fig. 379: Uncliping Panel At Top
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

If necessary, replace defective clip (1).

Belt adjustment fixture (2) must enclose head of belt screw (3).



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Fig. 380: Checking Clip
Courtesy of BMW OF NORTH AMERICA, INC.

51 43 252 REMOVING AND INSTALLING/REPLACING PANEL FOR REAR ROOF PILLAR (D-PILLAR), LEFT OR RIGHT

Special Tools Required

- 00 9 318

Removal & Installation

Remove trim for tail panel at top. See **51 47 101 Removing and installing/replacing luggage compartment floor trim panel** .

Lever out cover (1) on rear lid lock (2) with (universal wedge) special tool 00 9 318.

Detach rear lid rubber.

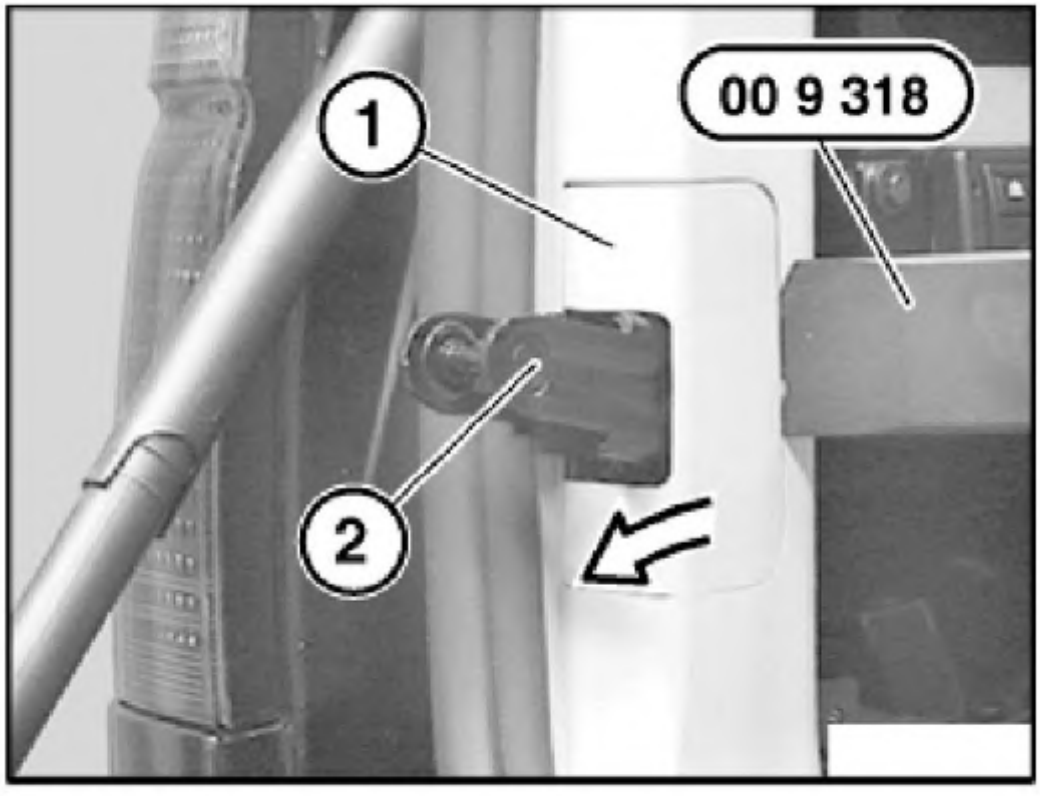


Fig. 381: Detaching Rear Lid Rubber
Courtesy of BMW OF NORTH AMERICA, INC.

Release screw (1).

Detach panel (2) at top approx. 30 mm from roof pillar.

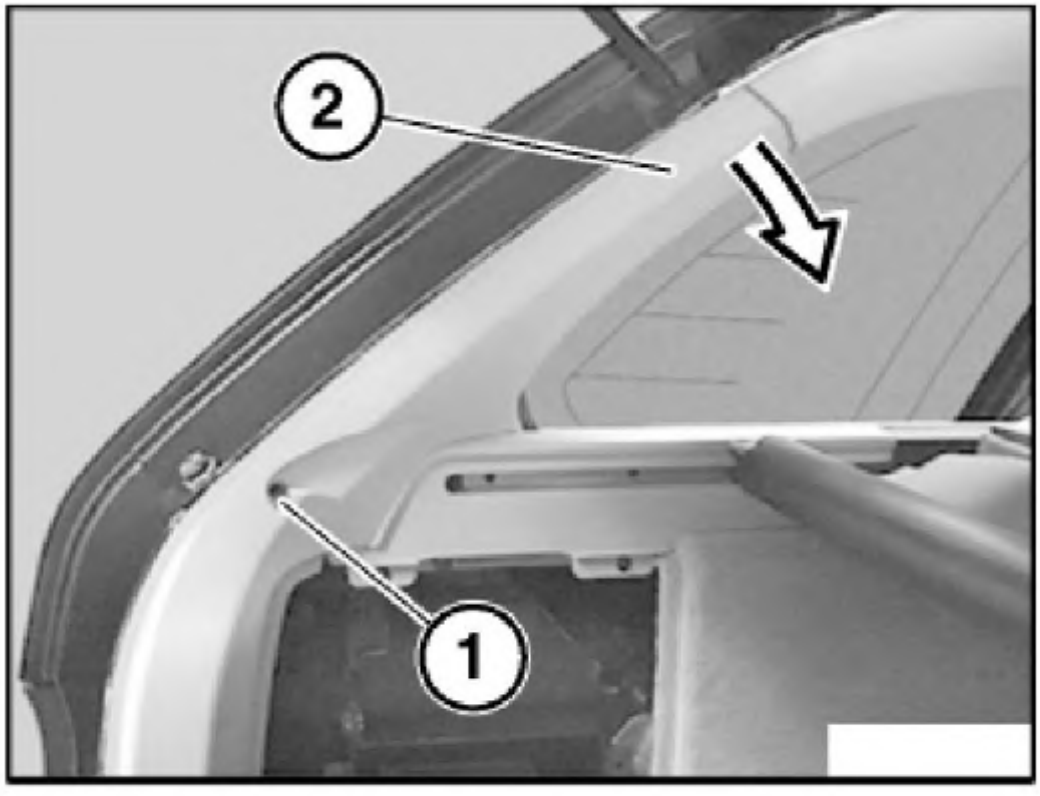


Fig. 382: Releasing Screw
Courtesy of BMW OF NORTH AMERICA, INC.

Pull panel (1) to one side.

Detach lug (2) from headliner (3).

Installation:

If necessary, replace faulty lug (2) or clip (4).

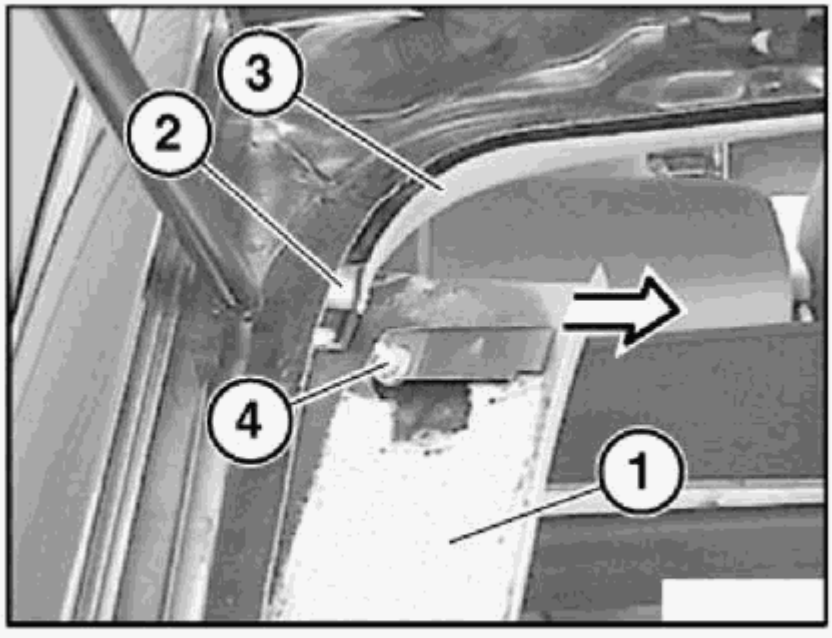


Fig. 383: Detaching Lug From Headliner
Courtesy of BMW OF NORTH AMERICA, INC.

Lift panel (1) over rear lid lock (2) and remove.

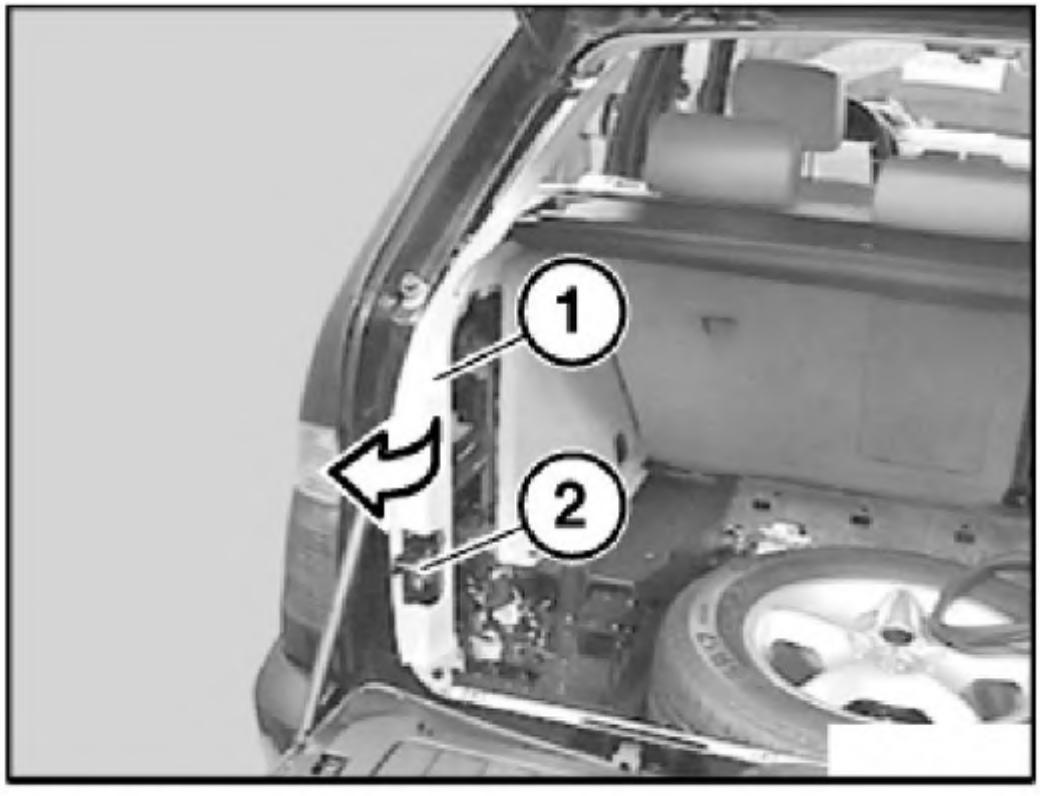
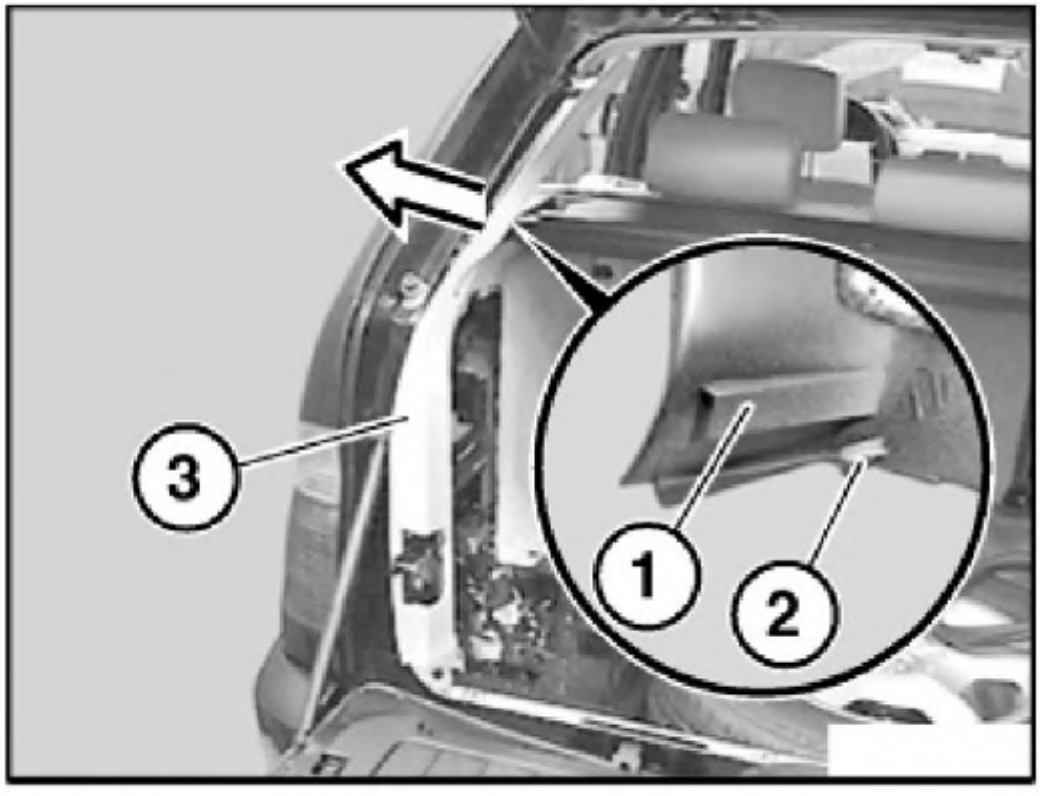


Fig. 384: Lifting Panel Over Rear Lid Lock
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Make sure guide (1) and journal (2) are correctly seated on panel (3).



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Fig. 385: Inspecting Guide And Journal Are Correctly Seated On Panel
Courtesy of BMW OF NORTH AMERICA, INC.

ROOF TRIM PANEL

51 44 001 REMOVING AND INSTALLING/REPLACING HEADLINER (WITHOUT SLIDE/TILT SUNROOF)

Except for the steps relating to the slide/tilt sunroof, the work is identical to:

Removing and installing/replacing headliner (with slide/tilt sunroof)

51 44 011 REMOVING AND INSTALLING/REPLACING HEADLINER (WITH SLIDE/TILT SUNROOF)

Remove both sun visors and counter support. See **51 16 080 Removing And Installing Or Replacing Sun Visor And Left Or Right Counter Support** .

Remove all grab handles. See **51 16 480 Removing And Installing Or Replacing Front Grab Handle** .

Remove both panels for front roof pillar (A-pillar finishers). See **51 43 251 Removing And Installing/Replacing Trim Panel For Left Or Right Rear Roof Pillar (C Pillar)** .

Remove both panels for door pillar (top) (B-pillar finishers). See **51 43 148 Removing And Installing Or Replacing Trim On Left Or Right Door Pillar (Top)** .

Remove both panels for rear roof pillar (C-pillar finishers). See **51 43 251 Removing And Installing/Replacing Trim Panel For Left Or Right Rear Roof Pillar (C Pillar)** .

Remove both panels for rear roof pillar (D-pillar finishers). See **51 43 252 Removing And Installing/Replacing Panel For Rear Roof Pillar (D-Pillar), Left Or Right** .

Remove bracket on headliner at front. See **51 44 020 Removing And Installing/Replacing Bracket On Roof Lining At Front** .

Remove front and rear head restraints. See **52 13 390 REMOVING AND INSTALLING / REPLACING FRONT HEADREST** .

Remove sunroof lid. See **54 12 115 REMOVING AND INSTALLING GLASS SLIDING TILT SUNROOF** .

Remove front and rear ceiling light. See **63 31 000 REMOVING AND INSTALLING/REPLACING COMPLETE CEILING LIGHT** .

Remove ultrasonic module. See .**65 75 565 REMOVING AND INSTALLING/REPLACING ULTRASONIC MODULE** .

Release screws (1).

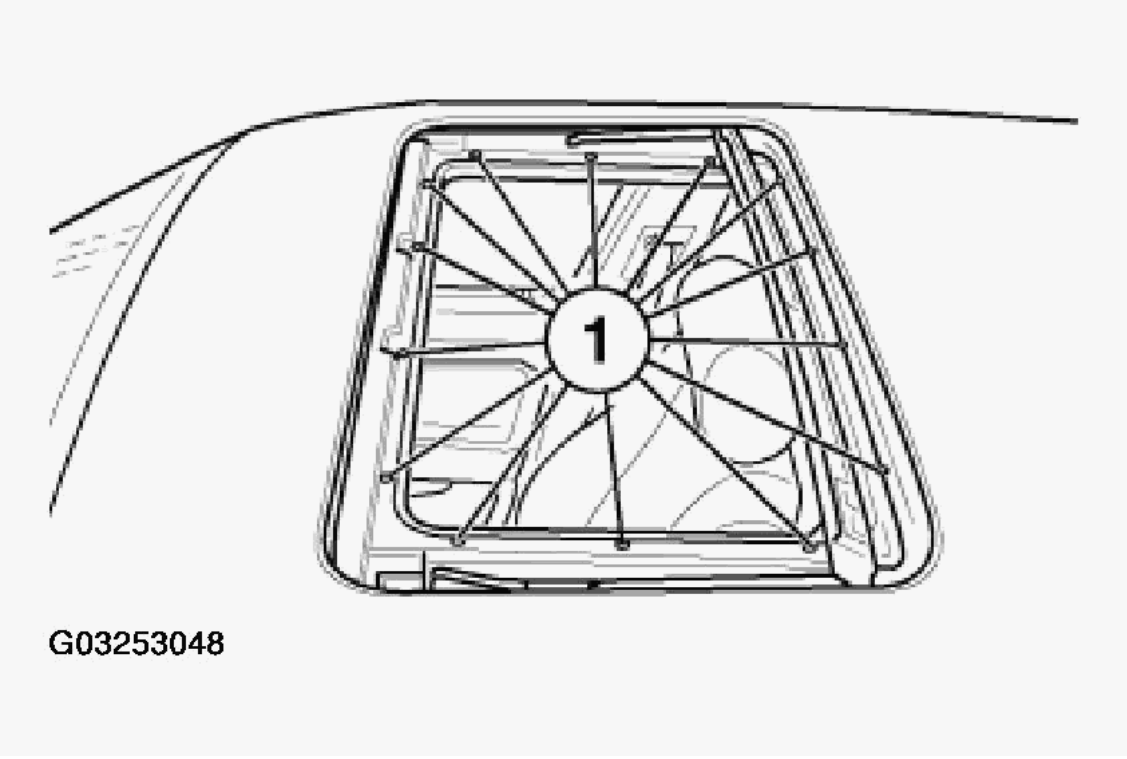


Fig. 386: Releasing Screws
Courtesy of BMW OF NORTH AMERICA, INC.

If necessary, remove all dividing net mounts:

Detach trims of covers for dividing net mount over lock (1) completely.

Release screw (2) and remove dividing net mounts.

Installation:

Observe position specifications on reverse side of covers (RR, FR, RL, FL).

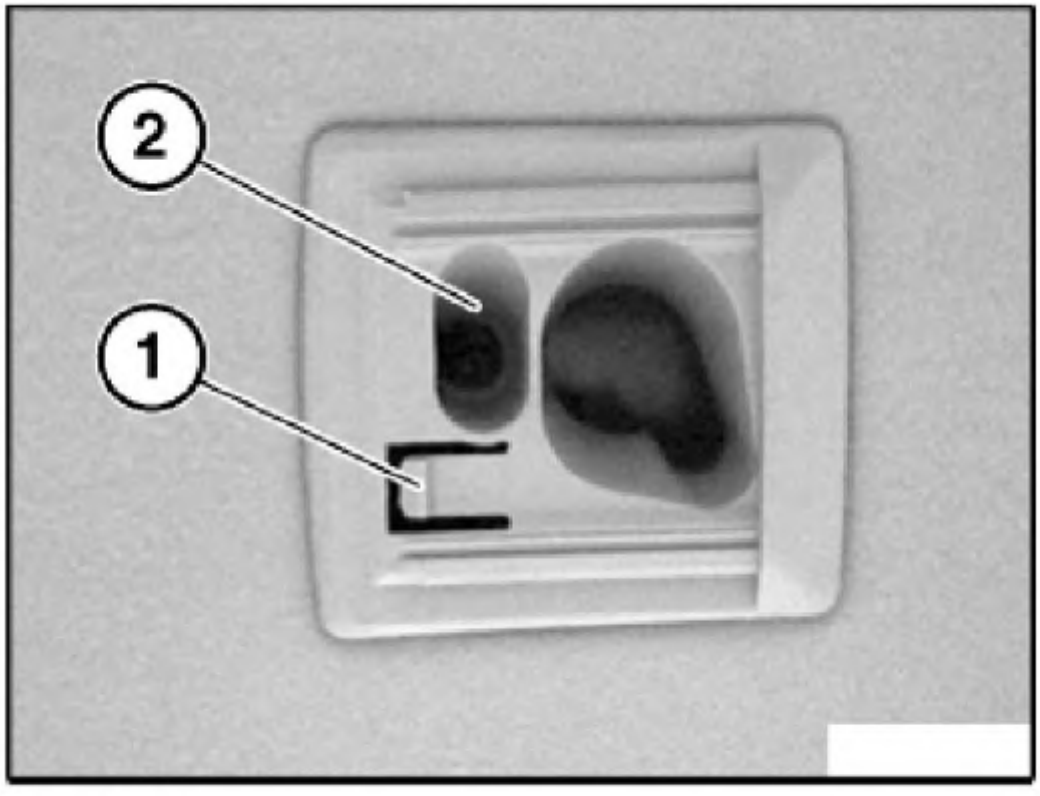


Fig. 387: Detaching Trims Of Covers For Dividing Net Mount Over Lock
Courtesy of BMW OF NORTH AMERICA, INC.

- Move both front seat backrests as far back as possible.
- Removing roller cover from luggage compartment, refer to Owner's Handbook.
- Fold both rear-seat backrests forward.
- Pull off mucket of front and rear doors.

CAUTION: The following tasks must be carried out with a second person assisting: Support headliner at front.

Release screws (1) under bracket on headliner (2).

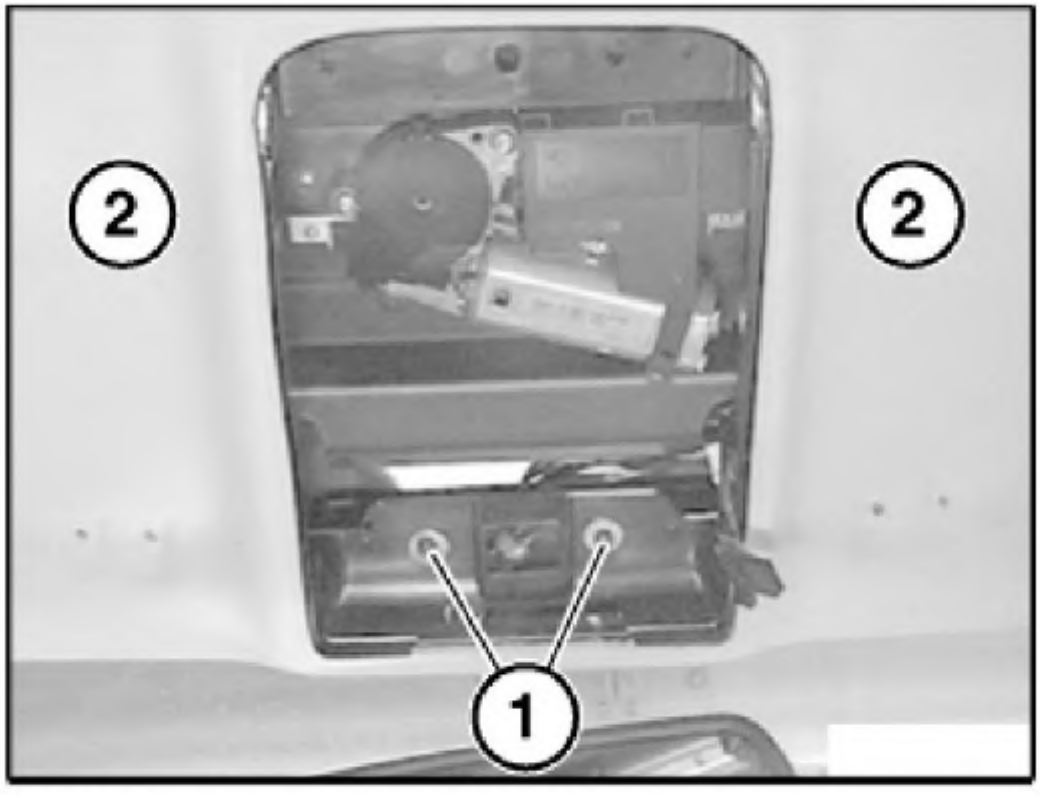


Fig. 388: Releasing Screws Under Bracket On Headliner
Courtesy of BMW OF NORTH AMERICA, INC.

Press headliner at rear to one side and in so doing slide three guides (1) out of sliding clips in body.

Turn headliner and remove towards rear.

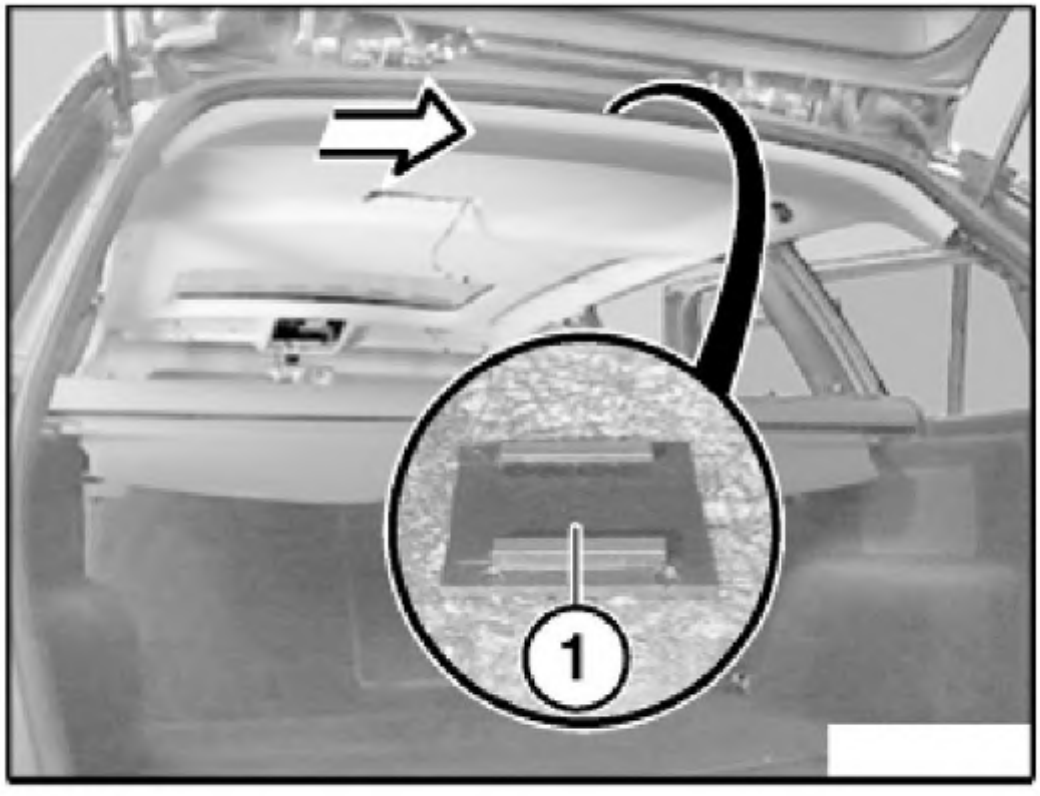


Fig. 389: Removing Towards Rear
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Pull sliding clips (1) out of retainers in body roof lining and slide into guides (2) of headliner.

If necessary, replace metal retainers in body roof lining.

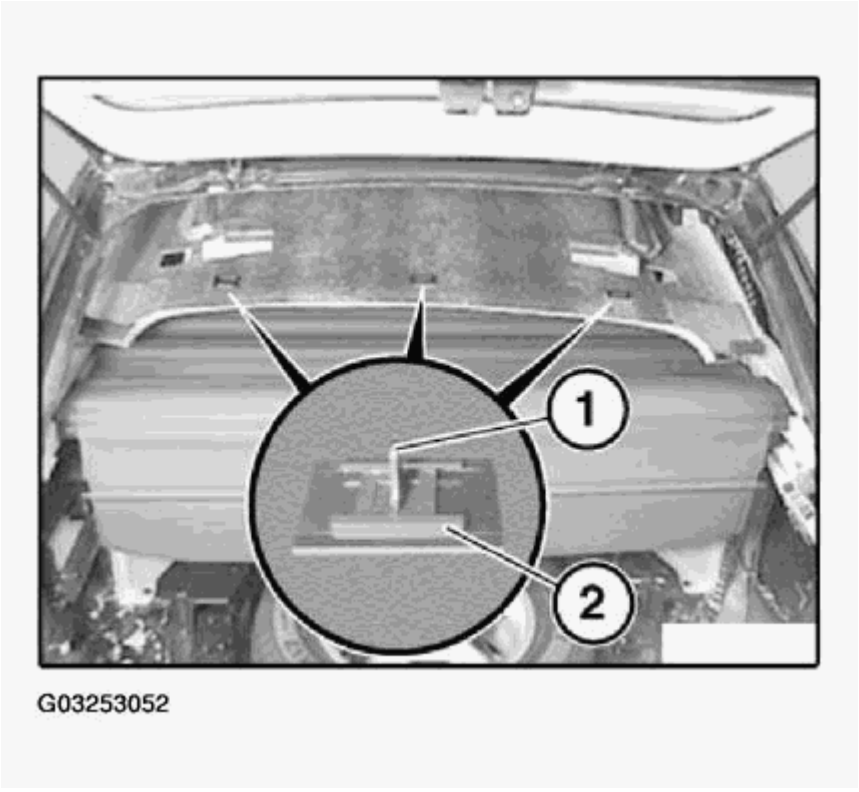


Fig. 390: Pulling Sliding Clips Out Of Retainers In Body Roof Lining
Courtesy of BMW OF NORTH AMERICA, INC.

Replacement Only:

Open locks (1) on frame (2) for ultrasonic module all round.

Remove frame halves.

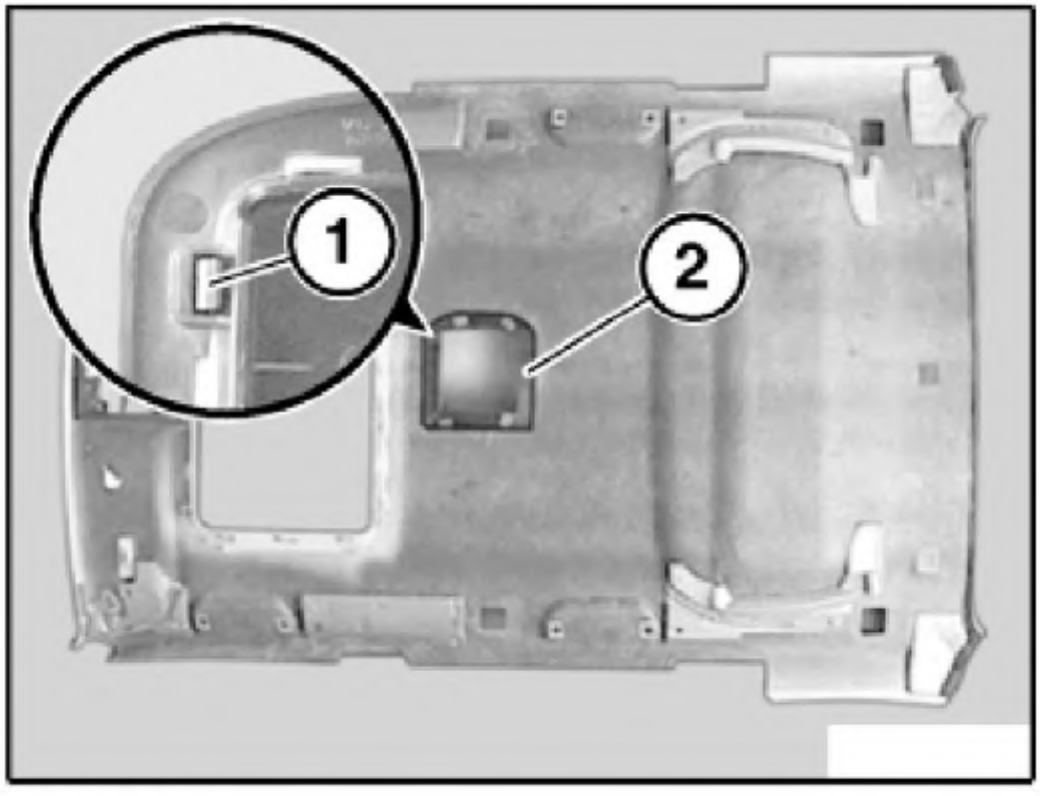


Fig. 391: Removing Frame Halves
Courtesy of BMW OF NORTH AMERICA, INC.

51 44 013 REMOVING AND INSTALLING ROOFLINER (ON VERSION WITH PANORAMA SUNROOF)

Operation is identical up to work steps for panorama sunroof to:

Removing and installing/replacing roofliner (with slide/tilt sunroof)

IMPORTANT: The following tasks must be carried out with a second person assisting:

Unclip clips (1) in sunroof frame area towards bottom.

Extend rear roofliner towards bottom out of guide.

Turn headliner and remove towards rear.

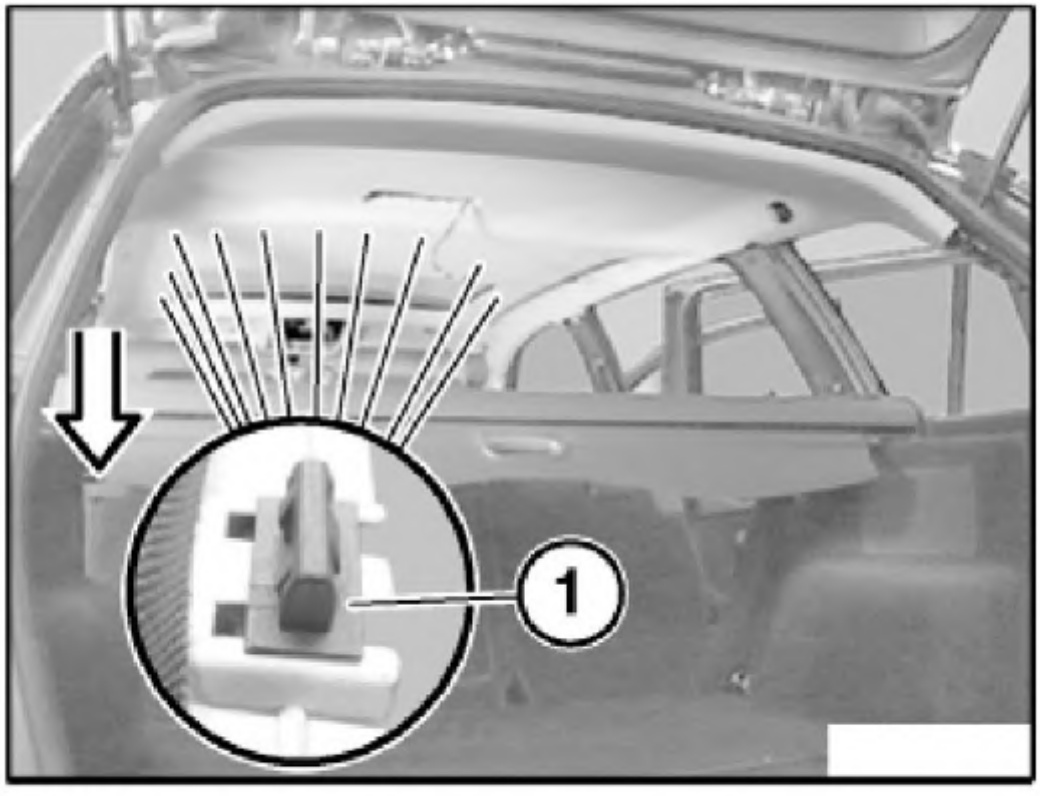
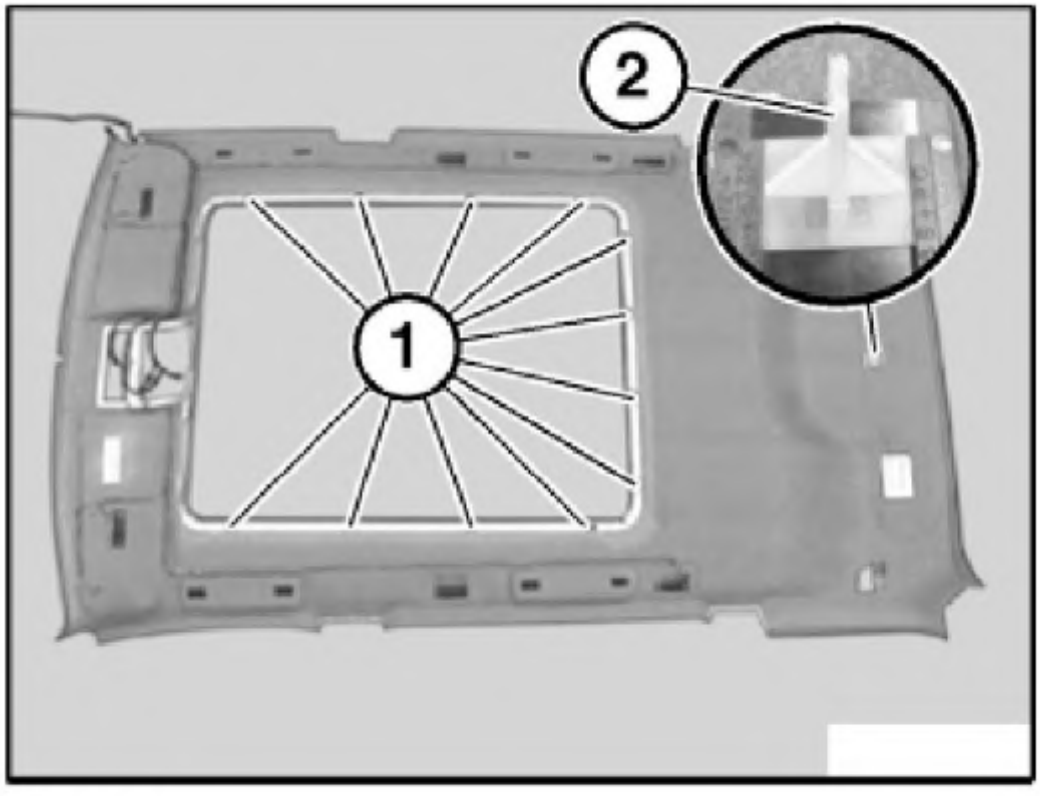


Fig. 392: Uncliping Clips In Sunroof Frame Area Towards Bottom
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Clips (1) and guide (2) must not be damaged.

If necessary, replace clips (1) and guide (2).



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Fig. 393: Checking Clips And Guide
Courtesy of BMW OF NORTH AMERICA, INC.

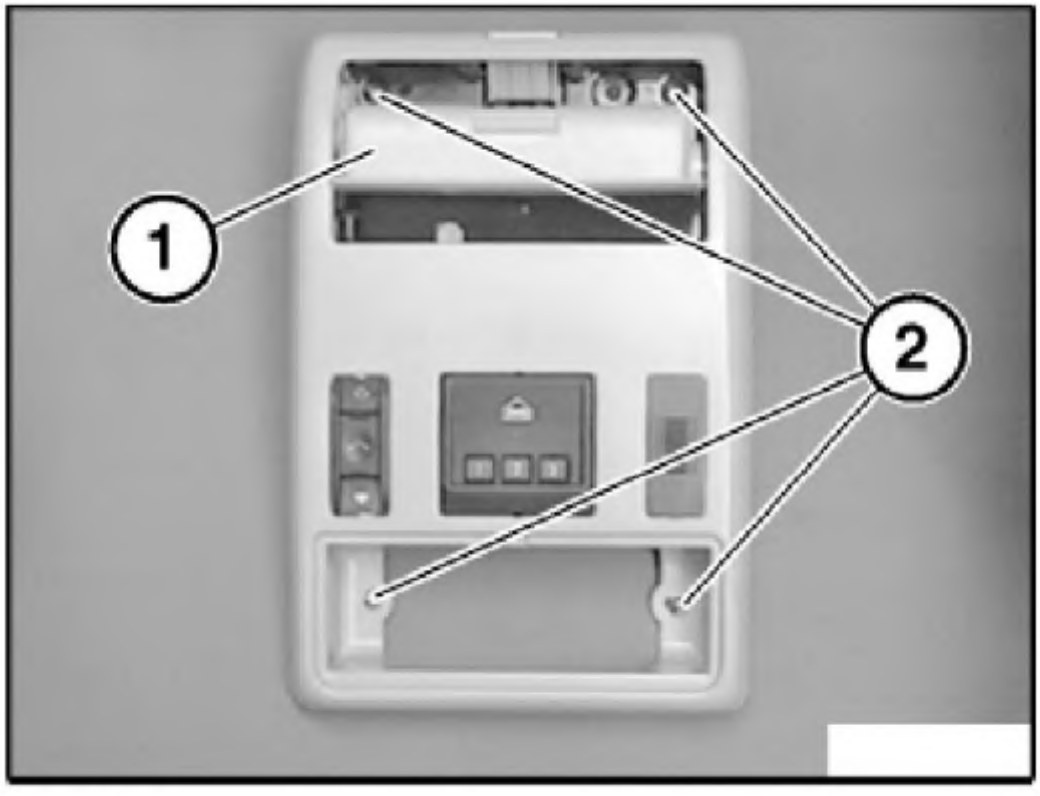
51 44 020 REMOVING AND INSTALLING/REPLACING BRACKET ON ROOF LINING AT FRONT

Remove lighting.

Open glasses compartment (1).

Unfasten screws (2).

Lower bracket, disconnect plug connections and remove bracket.



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Fig. 394: Unfastening Screws
Courtesy of BMW OF NORTH AMERICA, INC.

Replacement Only:

Remove switch for slide/tilt sunroof. See **61 31 175 REMOVING AND INSTALLING/REPLACING SWITCH FOR SLIDE/TILT SUNROOF** .

Remove remote control for garage door opening. See **61 31 405 REMOVING AND INSTALLING/REPLACING REMOTE CONTROL GARAGE SWITCH** .

Remove hands-free microphone. See **84 11 550 REMOVING AND INSTALLING/REPLACING HANDS-FREE MICROPHONE** .

INSTRUMENT CLUSTER TRIM PANEL

51 45 030 REMOVING AND INSTALLING INSTRUMENT PANEL TRIM

Disconnect battery negative lead. See **12 00 ... INSTRUCTIONS FOR DISCONNECTING AND CONNECTING BATTERY** .

Remove both panels for front roof pillar. See **51 43 201 Removing And Installing/Replacing Panel For Roof Pillar At Front (A-Pillar), Left Or Right** .

Remove light switch unit. See **61 31 033 REMOVING AND INSTALLING LIGHT SWITCH UNIT** .

Remove complete instrument carrier. See **62 21 000 REMOVING AND INSTALLING COMPLETE INSTRUMENT CARRIER** .

Remove fixture for steering column switch. See **61 31 005 REMOVING AND INSTALLING/REPLACING FIXTURE FOR STEERING COLUMN SWITCH** .

Remove center fresh air grill. See **64 22 161 REMOVING AND INSTALLING/REPLACING FRESH AIR GRILL CENTER** .

Remove radio receiver. See **65 11 030 REMOVING AND INSTALLING / REPLACING RADIO** .

Remove airbag module on passenger side. See **SIDE AIR BAG MODULE** .

Remove center console. See **51 16 200 Removing And Installing Center Console** .

Remove lower left trim from instrument panel. See **51 45 180 Removing And Installing Trim For Instrument Panel, Bottom Left** .

Remove right glovebox. See **51 16 360 Removing And Installing Right Glove Box** .

Remove all clipped finishers (decorative strips on panel for instrument panel). See **51 16 221 Replacing A Clipped Finisher (Decorative Strip On Panel For Instrument Panel, Front Or Rear Door)** .

Release screws (1).

Disconnect plug connection for speaker.

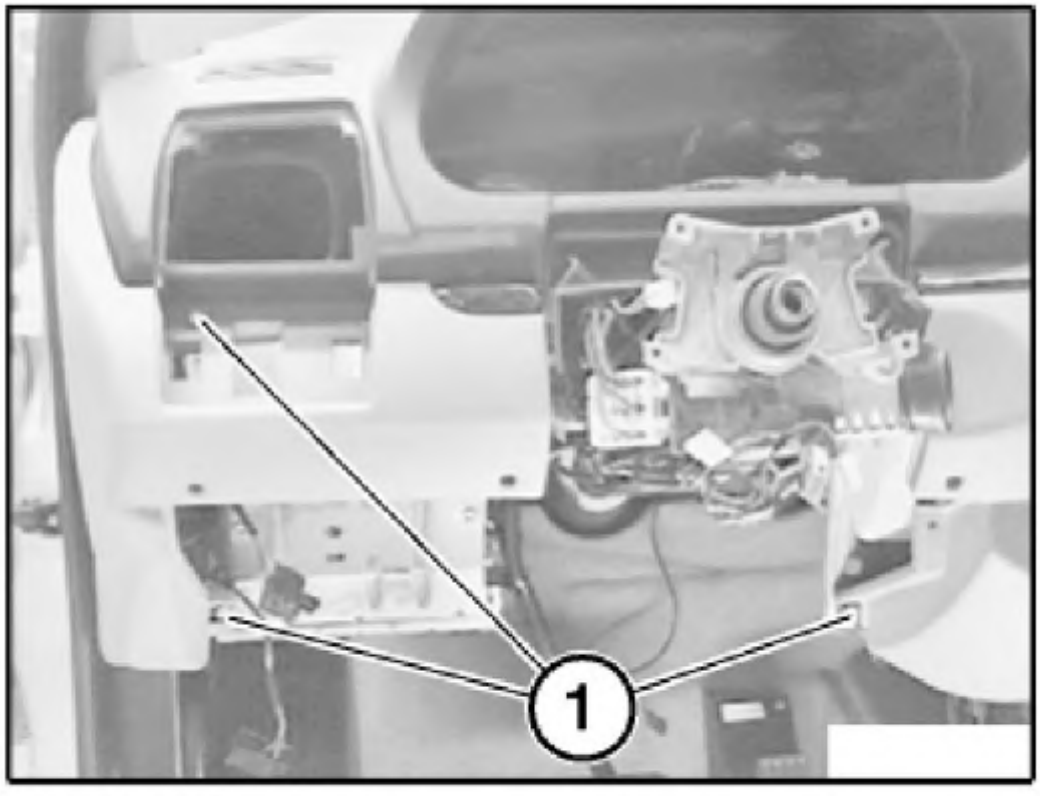


Fig. 395: Releasing Screws
Courtesy of BMW OF NORTH AMERICA, INC.

Release screws (1).

Disconnect plug connection for speaker.

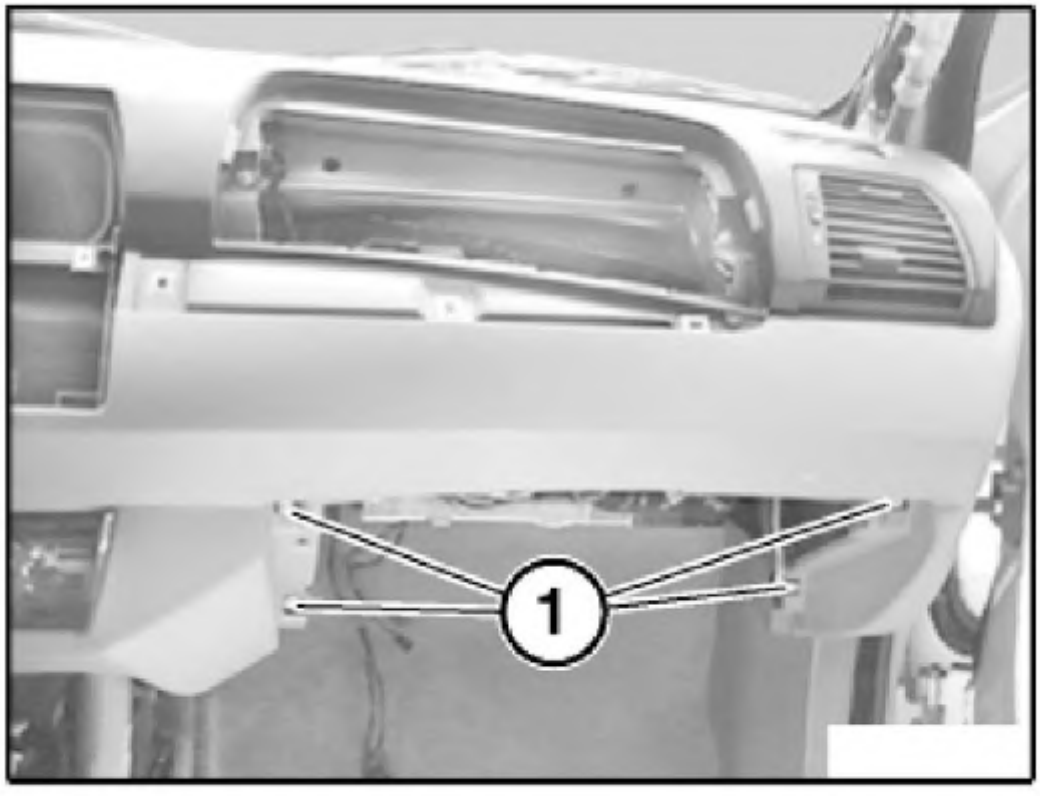
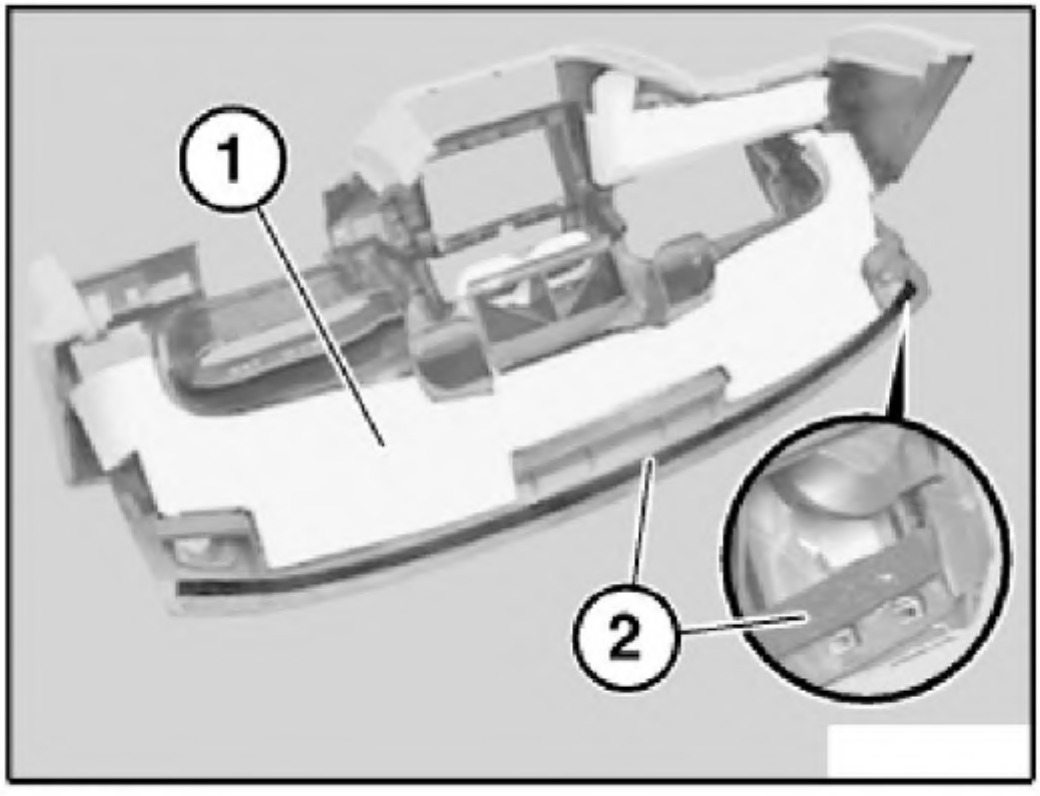


Fig. 396: Disconnecting Plug Connection For Speaker
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Anti-drumming lining (1) must be correctly stuck on.

Foam strip (2) must be correctly stuck on.



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Fig. 397: Inspecting Foam Strip Must Be Correctly Stuck On
Courtesy of BMW OF NORTH AMERICA, INC.

Push fixtures (1) and (2) onto guide plates (3) and (4).

1. Fixture on instrument panel, outside
2. Fixture on instrument panel, center
3. Guide plate on body, outside
4. Guide plate on body, center

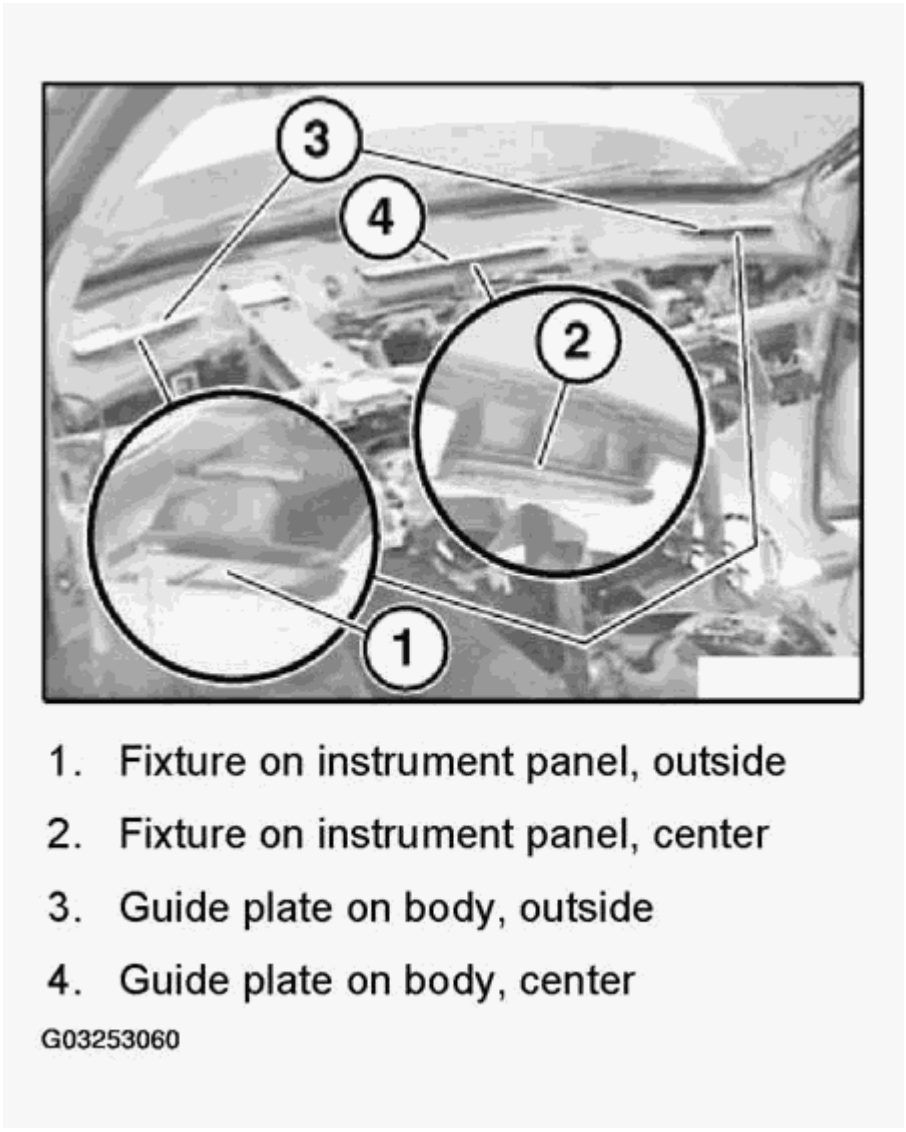


Fig. 398: Pushing Fixtures (1) And (2) On To Guide Plates
Courtesy of BMW OF NORTH AMERICA, INC.

51 45 031 REPLACING INSTRUMENT PANEL TRIM

Remove trim for instrument panel. See **51 45 030 Removing And Installing Instrument Panel Trim** .

Remove speakers (in instrument panel) on left and right. See **65 13 050 REMOVING AND INSTALLING/REPLACING SPEAKERS** .

Remove decorative strip next to light switch and radio. See **51 16 221 Replacing A Clipped Finisher (Decorative Strip On Panel For Instrument Panel, Front Or Rear Door)** .

Remove right fresh air nozzle. See **64 22 136 REMOVING AND INSTALLING/REPLACING RIGHT FRESH AIR GRILLE** .

Release screws (1) and remove frame (2) for passenger airbag.

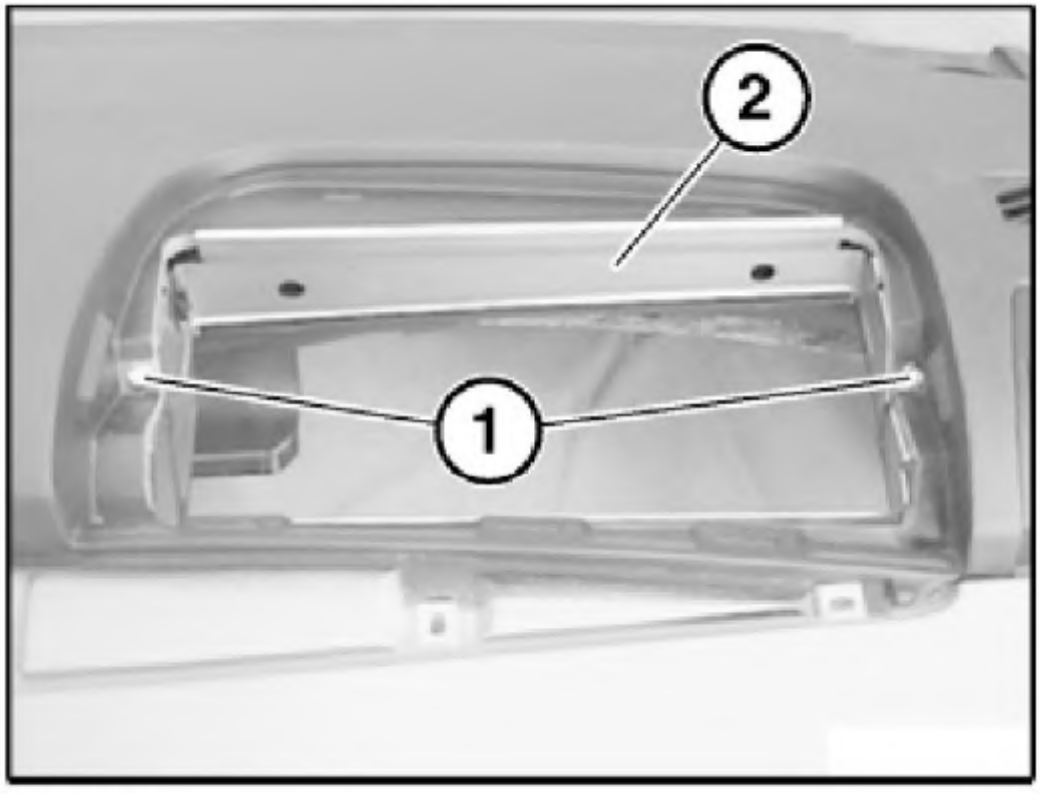


Fig. 399: Removing Frame For Passenger Airbag
Courtesy of BMW OF NORTH AMERICA, INC.

Slacken screws (1) and remove cover (2) for steering column.

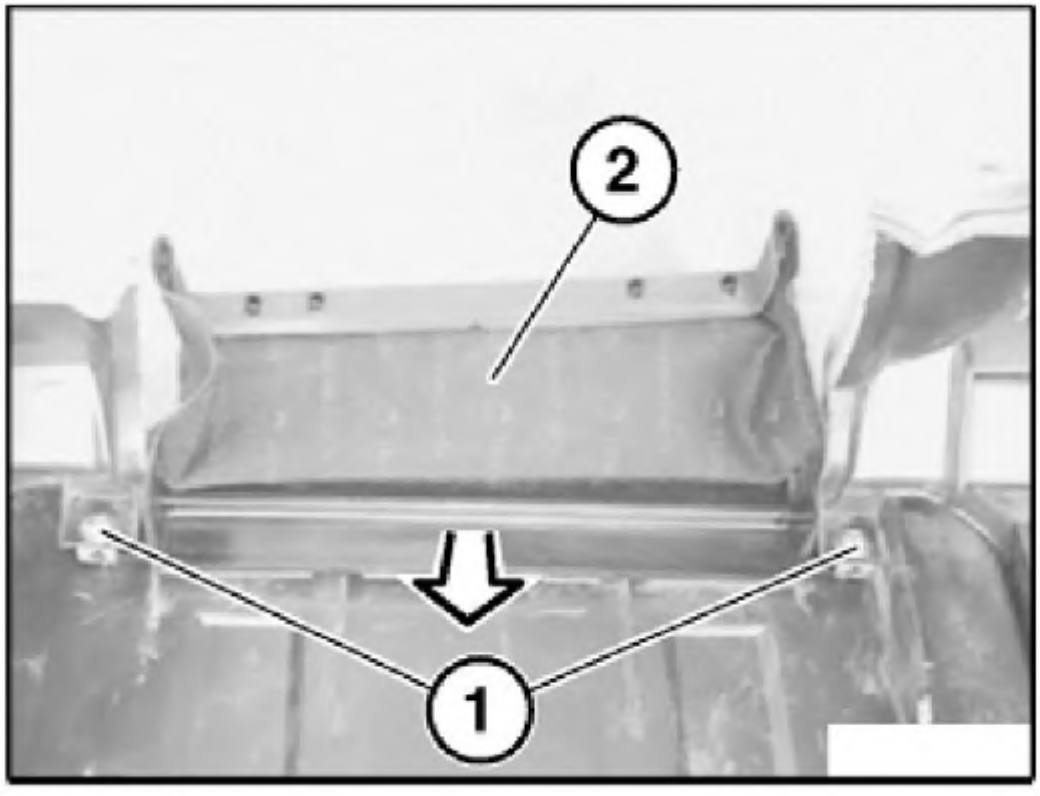


Fig. 400: Removing Cover For Steering Column
Courtesy of BMW OF NORTH AMERICA, INC.

Release screws (1) from below.

Release screws (2) from above and remove frame (3) for heating controls.

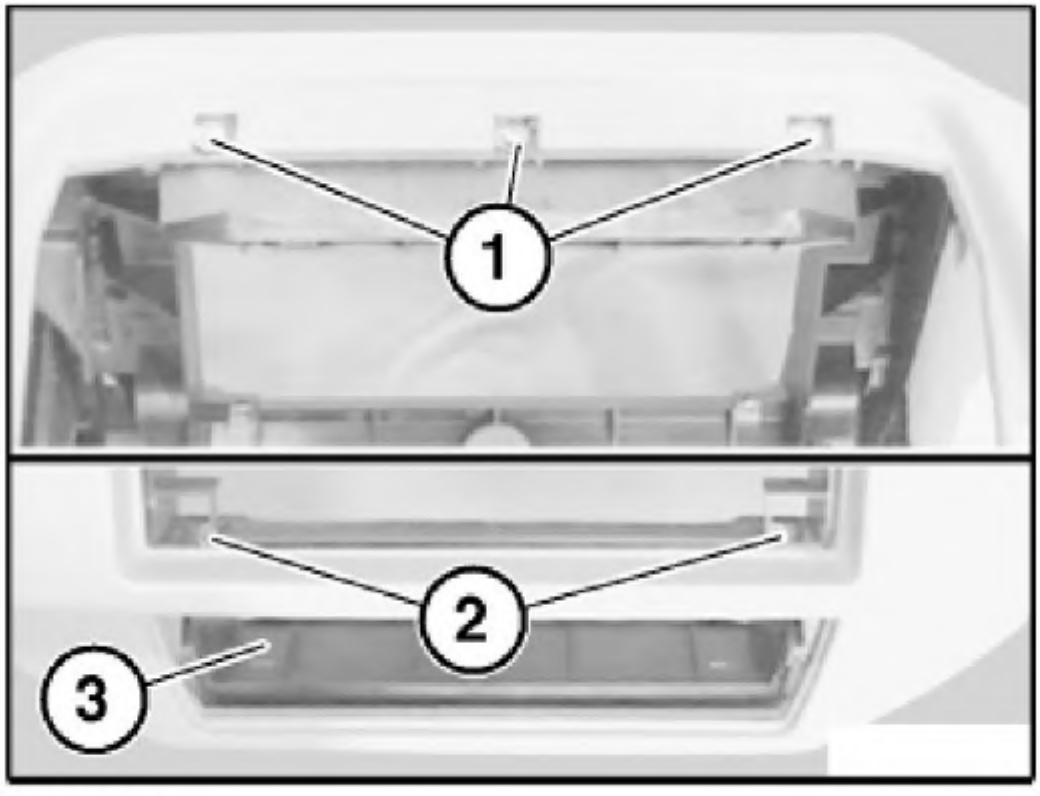


Fig. 401: Removing Frame For Heating Controls
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

If necessary, replace faulty metal nuts (1) on frame (2) for heating controls.

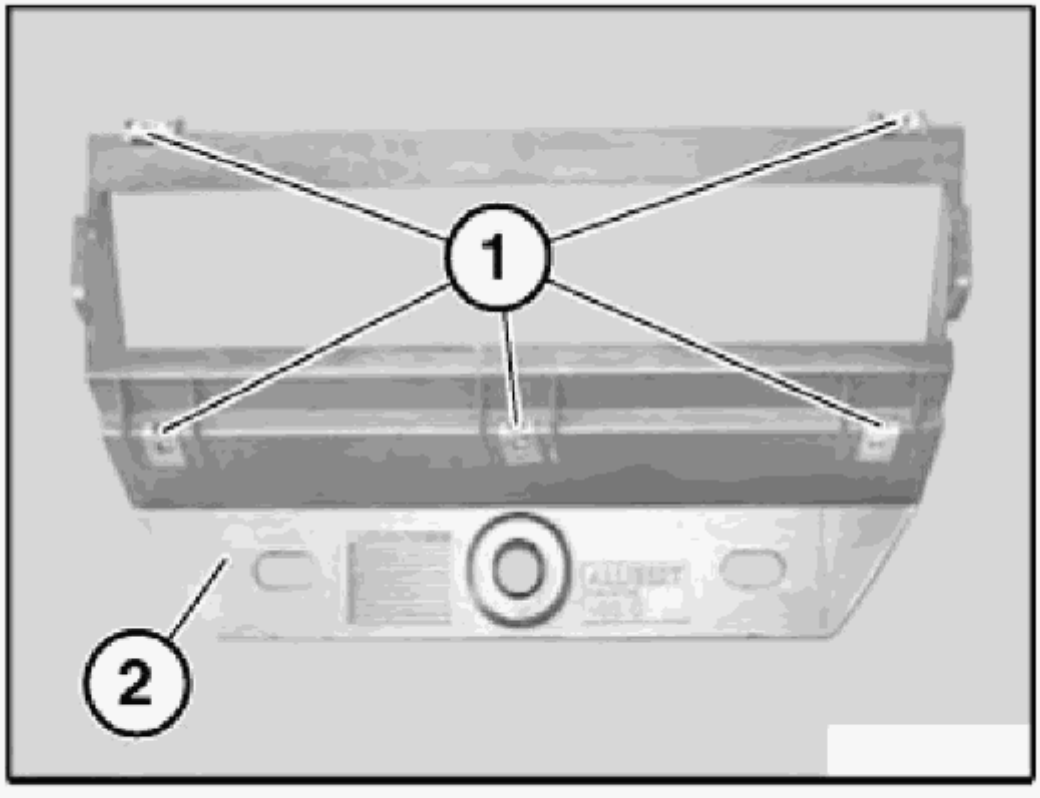


Fig. 402: Checking Metal Nuts On Frame For Heating Controls
Courtesy of BMW OF NORTH AMERICA, INC.

Detach anti-drumming coating (1) until air ducts can be removed at side.

Installation:

Foam strip (2) must be correctly fitted.

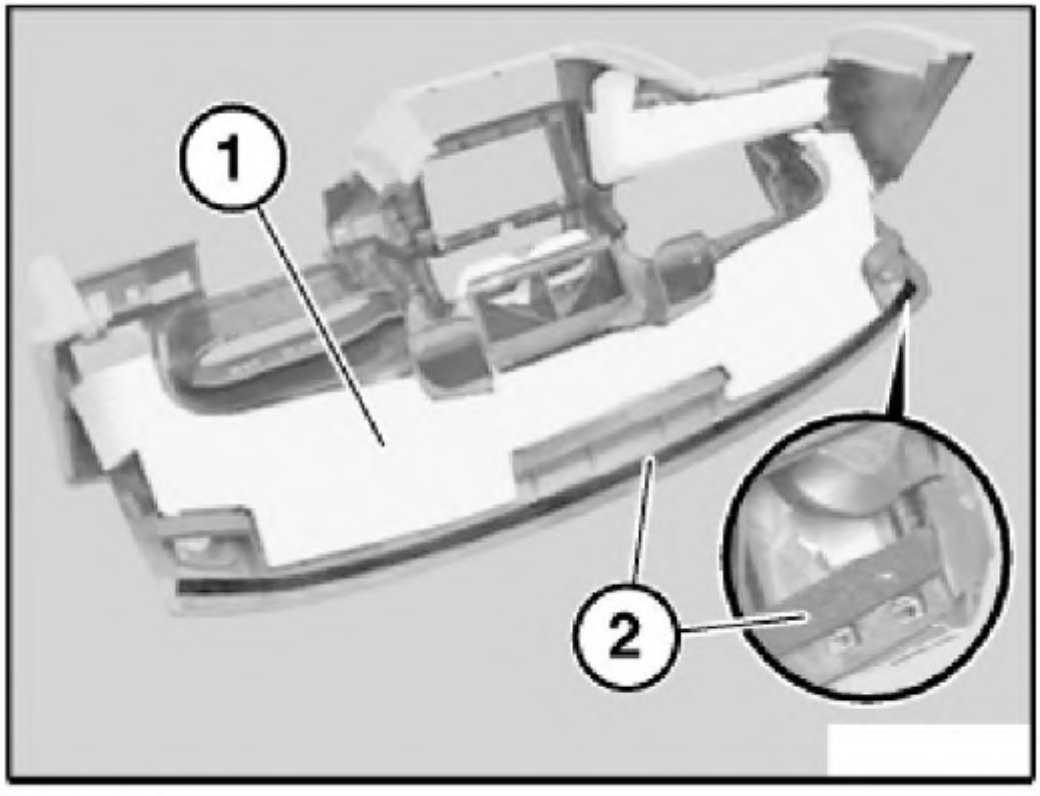


Fig. 403: Inspecting Foam Strip Must Be Correctly Fitted
Courtesy of BMW OF NORTH AMERICA, INC.

Release left/right screws (1).

Detach air duct (2) on left/right from center air duct (3).

Installation:

Re-attach anti-drumming coating (4) to air duct (2).

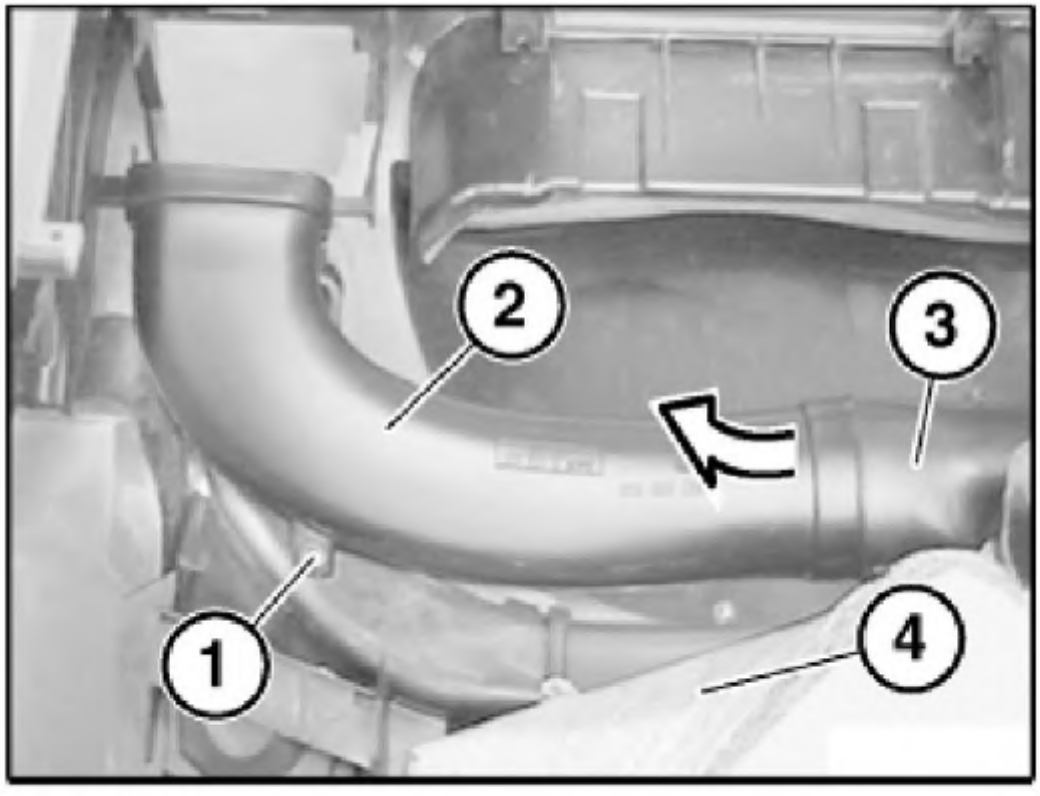
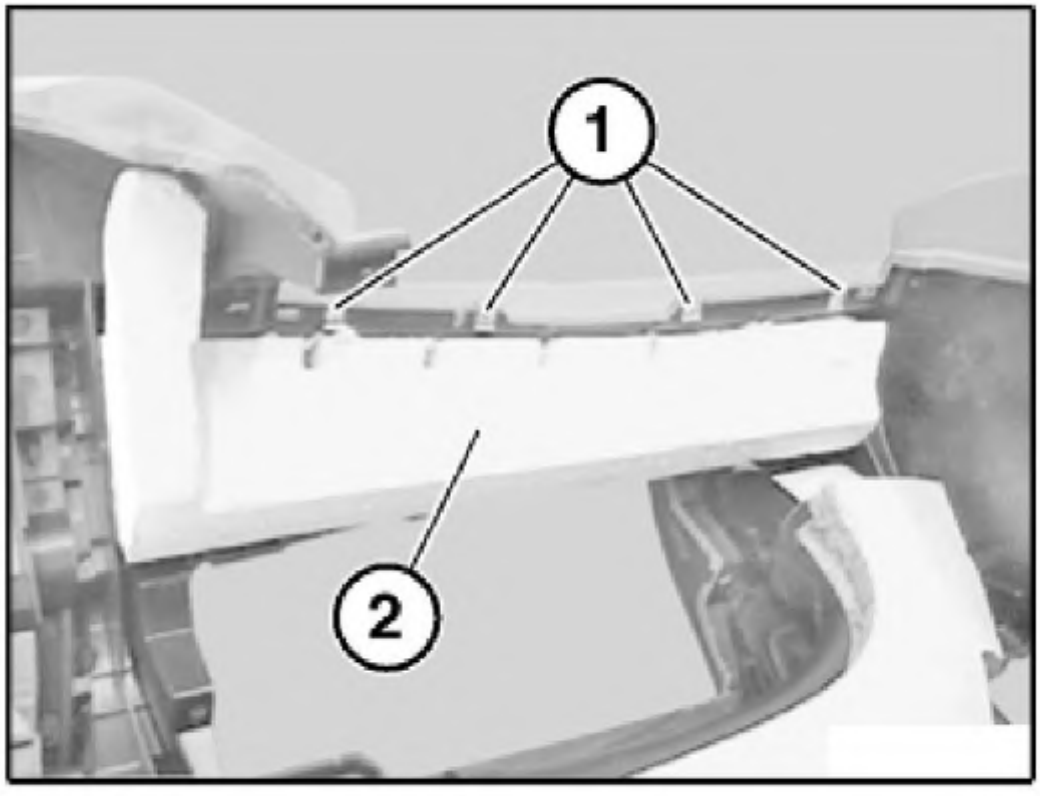


Fig. 404: Releasing Left/Right Screws
Courtesy of BMW OF NORTH AMERICA, INC.

Remove metal nuts (1).

Installation:

Styrofoam block (2) must be correctly fitted.



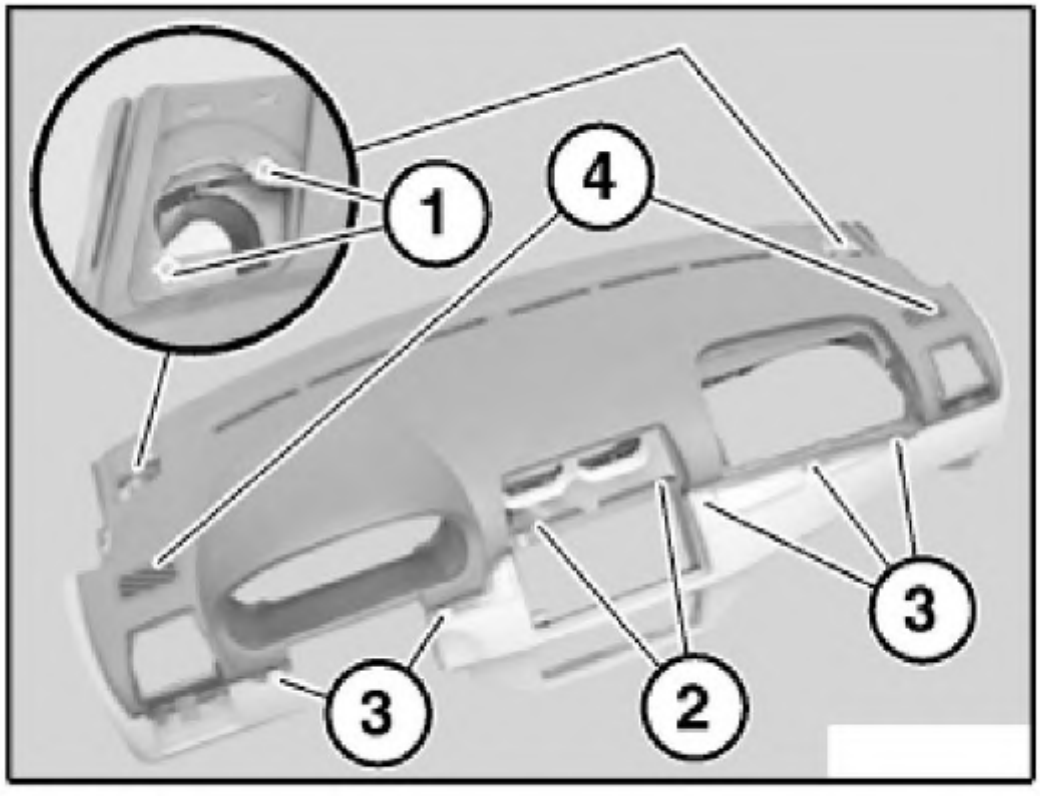
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Fig. 405: Removing Metal Nuts
Courtesy of BMW OF NORTH AMERICA, INC.

Remove metal nuts (1) for left/right speakers.

Remove fasteners (3) for decorative strips.

Unclip fresh-air grill (4) on left/right.



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Fig. 406: Removing Metal Nuts For Left/Right Speakers
Courtesy of BMW OF NORTH AMERICA, INC.

51 45 055 REMOVING AND INSTALLING/REPLACING AIRBAG COVER ON PASSENGER SIDE

Operation Is Identical To:

Remove airbag module on passenger side. See **SIDE AIR BAG MODULE** .

51 45 180 REMOVING AND INSTALLING TRIM FOR INSTRUMENT PANEL, BOTTOM LEFT

Remove trim for pedal assembly. See **51 45 185 Removing And Installing/Replacing Trim For Pedal Assembly** .

Release screws (1).

Disconnect plug connection for OBD socket (2).

Unclip rubber gaiter from steering wheel trim and remove trim (2).

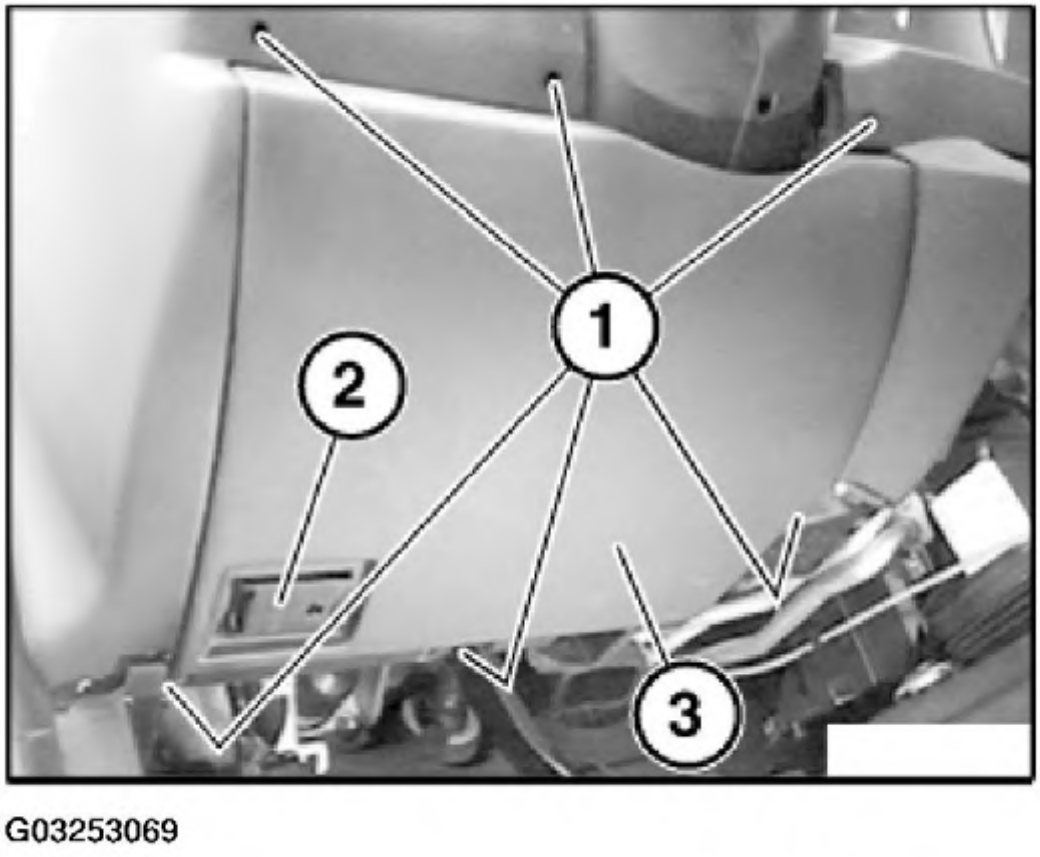


Fig. 407: Uncliping Rubber Gaiter From Steering Wheel Trim
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Clip rubber gaiter (1) correctly with clips (1) into fixtures (3) in steering wheel trim.

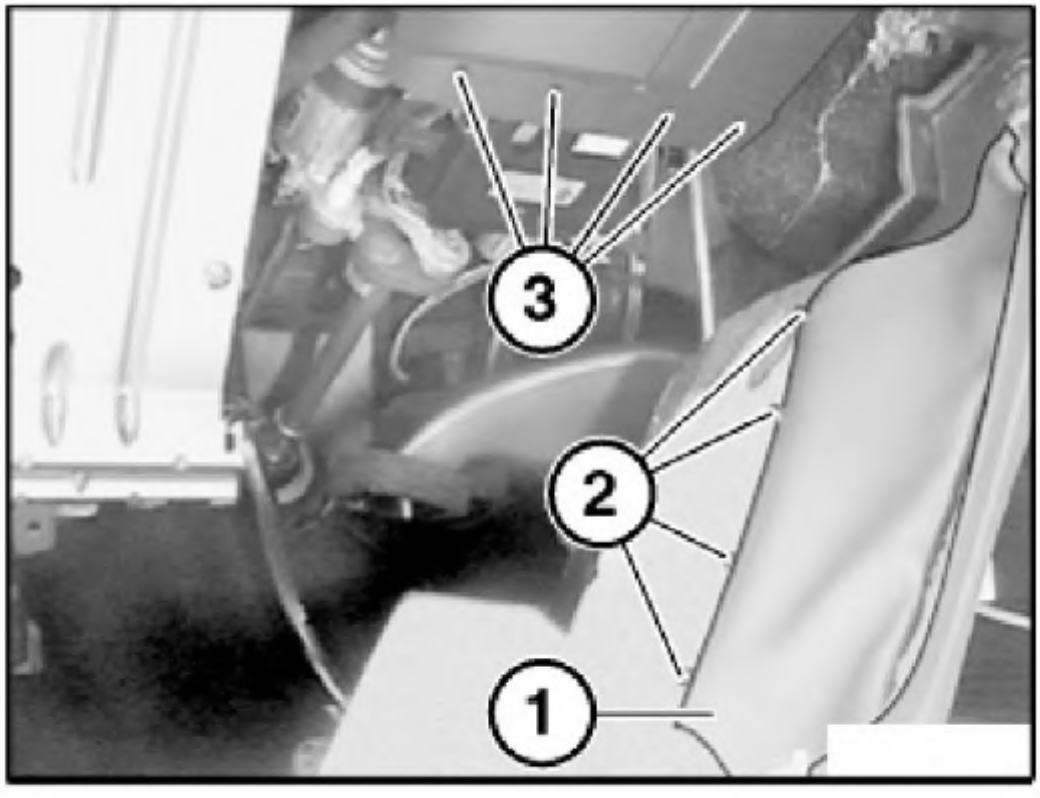


Fig. 408: Inspecting Clip Rubber Gaiter Correctly With Clips Into Fixtures In Steering Wheel Trim
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

If necessary, replace faulty metal nuts (1).

Rubber gaiter (2) and styrofoam (3) must not be damaged.

Replacement only:

Remove OBD socket (4) from trim (5).

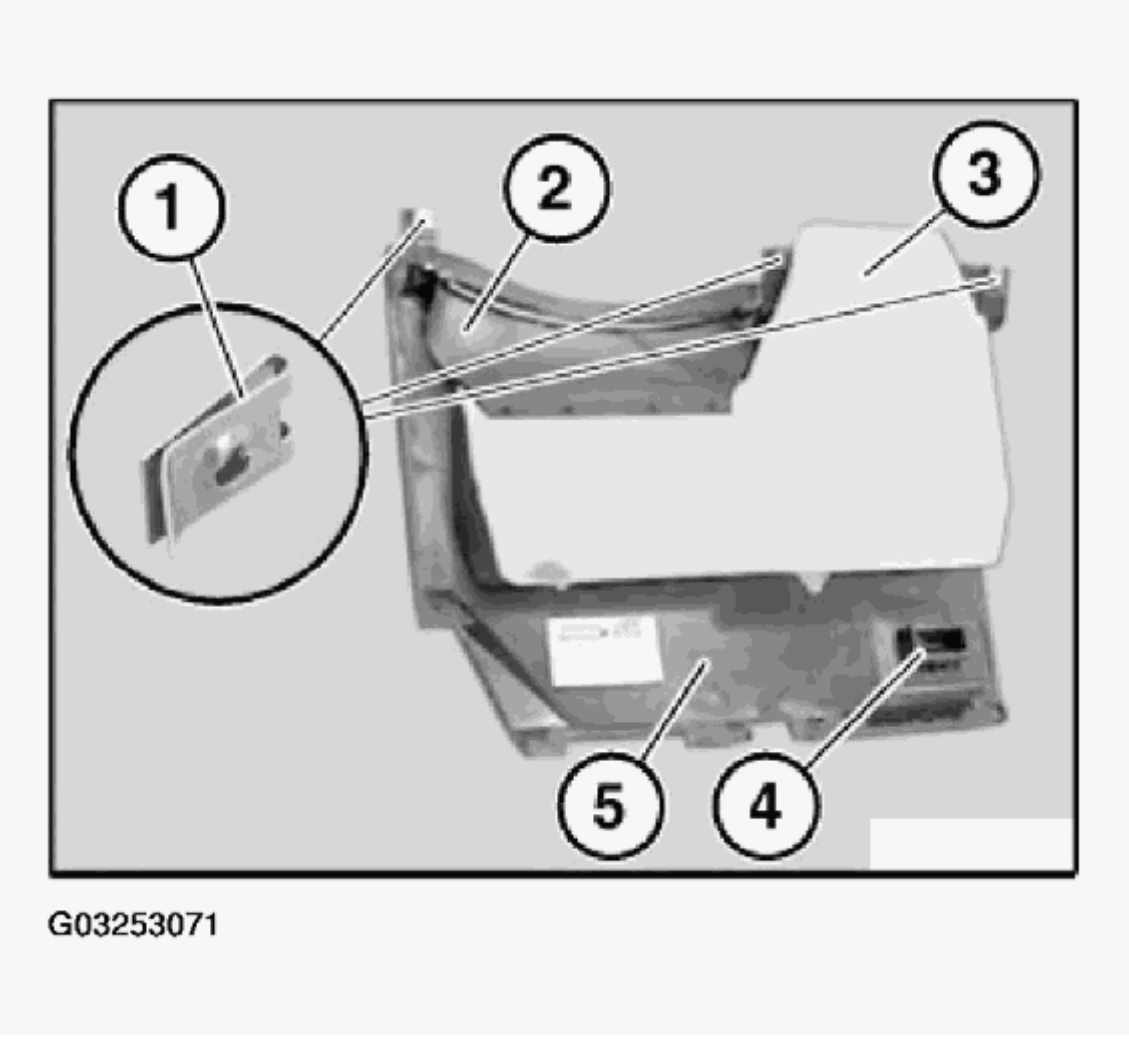


Fig. 409: Removing OBD Socket From Trim
Courtesy of BMW OF NORTH AMERICA, INC.

51 45 181 REMOVING AND INSTALLING/REPLACING TRIM FOR INSTRUMENT PANEL, BOTTOM RIGHT

Release screw (1).

Turn toggle (2) and remove.

Lower trim (4) a little and disconnect plug connection for footwell light (3).

Remove bottom right trim (4) for instrument panel.

Replacement only:

Lever out footwell light (3).

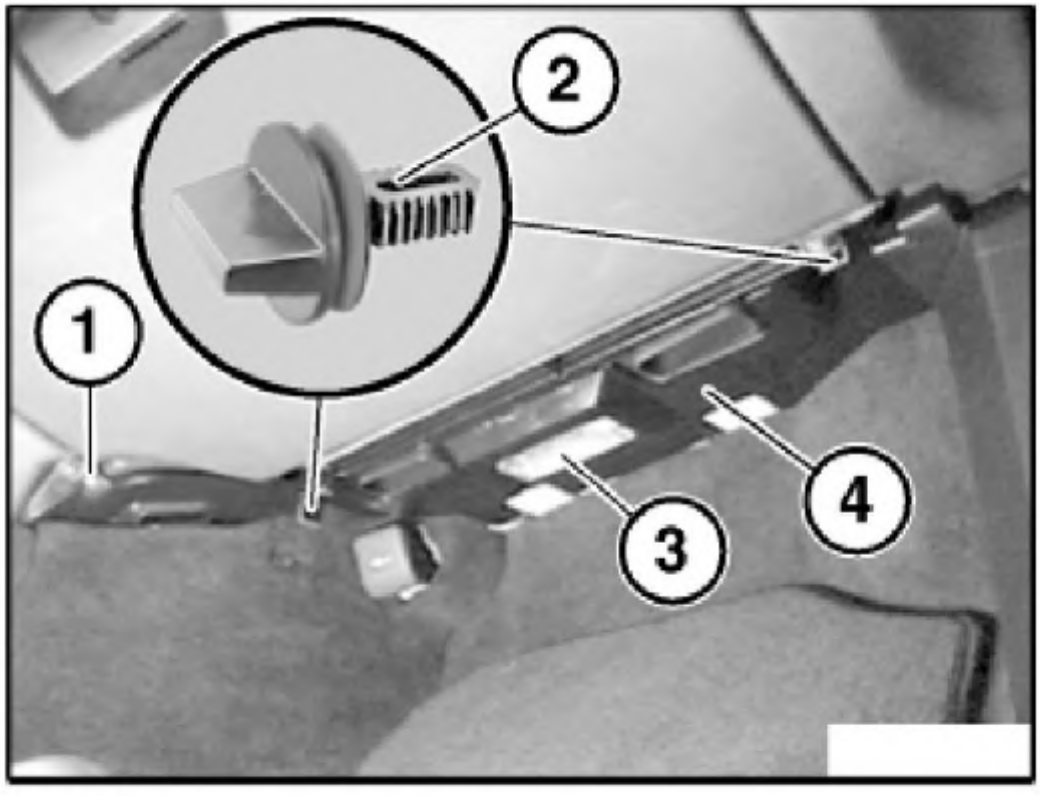


Fig. 410: Removing Bottom Right Trim For Instrument Panel
Courtesy of BMW OF NORTH AMERICA, INC.

51 45 185 REMOVING AND INSTALLING/REPLACING TRIM FOR PEDAL ASSEMBLY

Unlock gong (1) and remove from trim (3).

Release screws (4).

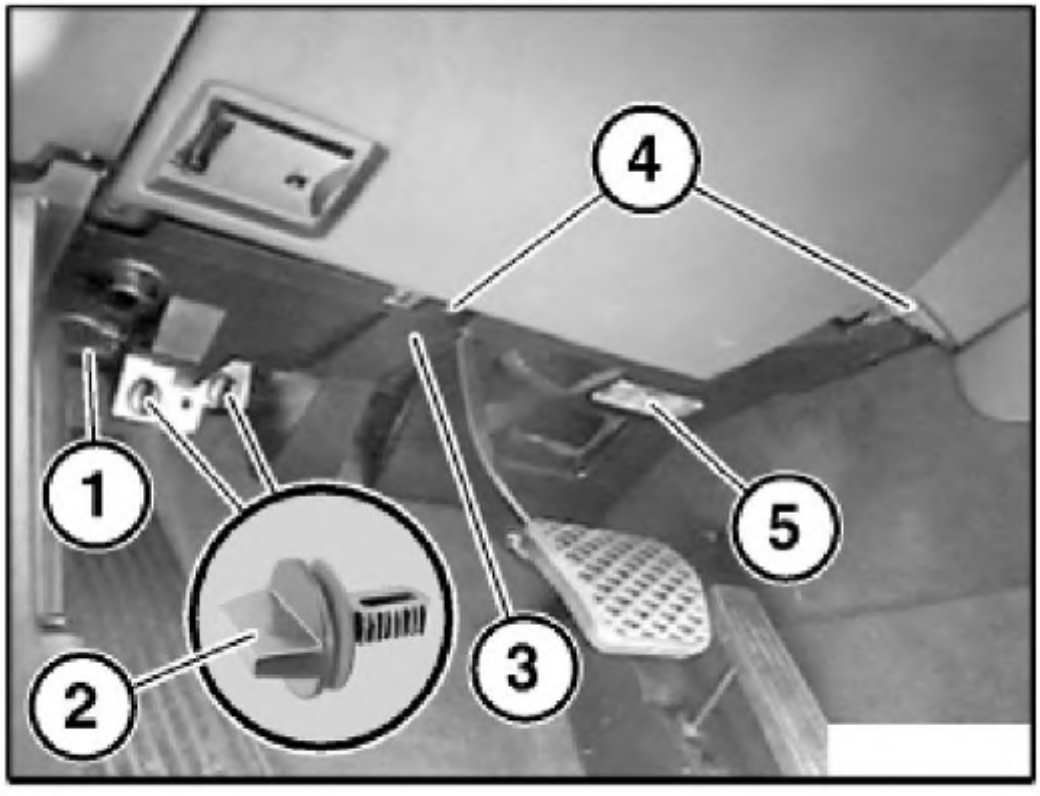
Turn toggle (2) and remove.

Lower trim (3) a little and disconnect plug connection for footwell light (5).

Remove trim (3).

Replacement only:

Lever out footwell light (5).



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Fig. 411: Removing Trim
Courtesy of BMW OF NORTH AMERICA, INC.

PARCEL SHELF TRIM PANEL

51 46 050 REMOVING AND INSTALLING/REPLACING FINISHER FOR TOP OF REAR APRON

Remove luggage compartment floor trim panel. See **51 47 101 Removing And Installing/Replacing Luggage Compartment Floor Trim Panel** .

Remove flaps in luggage compartment trim panel on left and right. See **51 47 172 Removing And Installing/Replacing Flap In Luggage Compartment Trim, Left Or Right** .

Raise trim (1) and release screws (2).

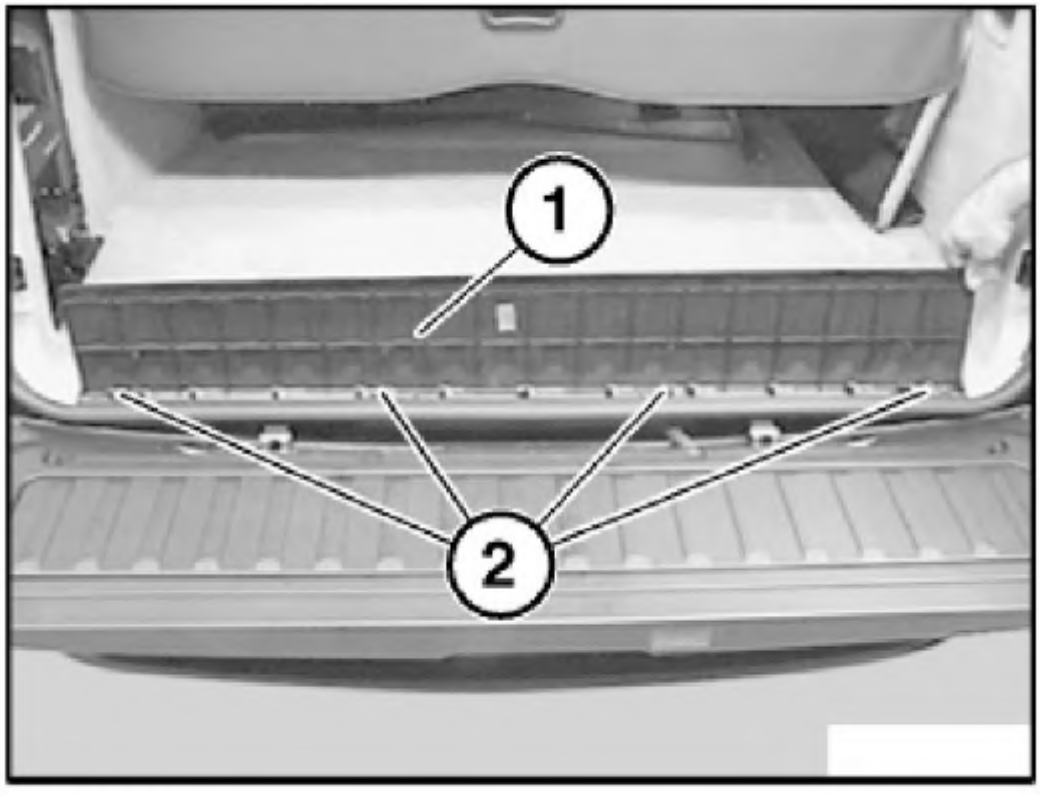


Fig. 412: Releasing Screws
Courtesy of BMW OF NORTH AMERICA, INC.

Lever out trim (1) in lashing eyes on opening.

Release screws (2) and lever out lashing eyes.

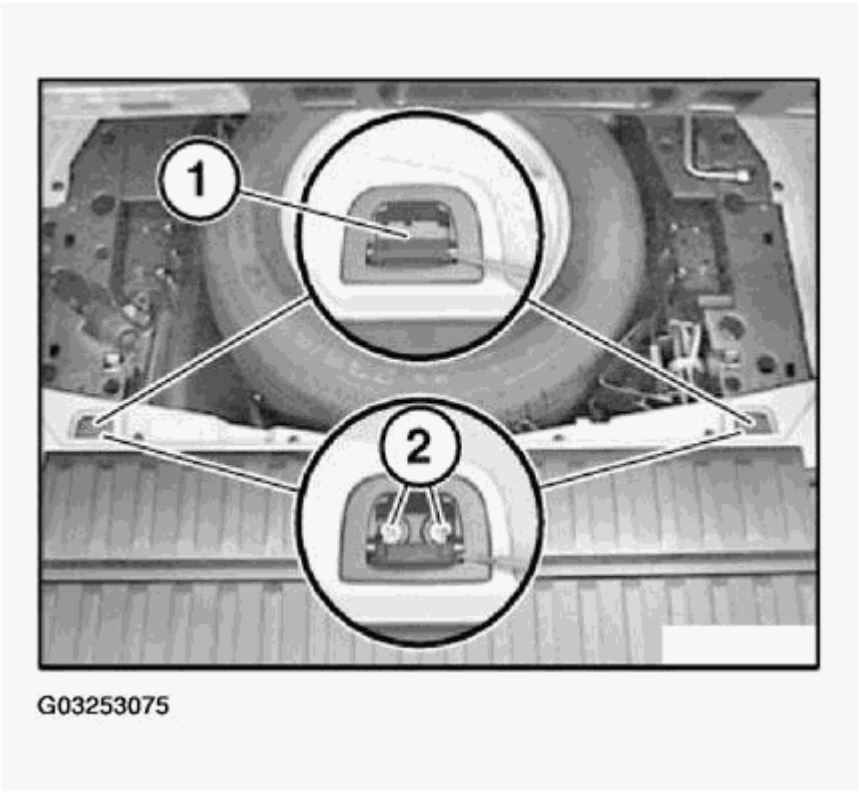


Fig. 413: Releasing Screws And Lever Out Lashing Eyes
Courtesy of BMW OF NORTH AMERICA, INC.

Release screws (1).

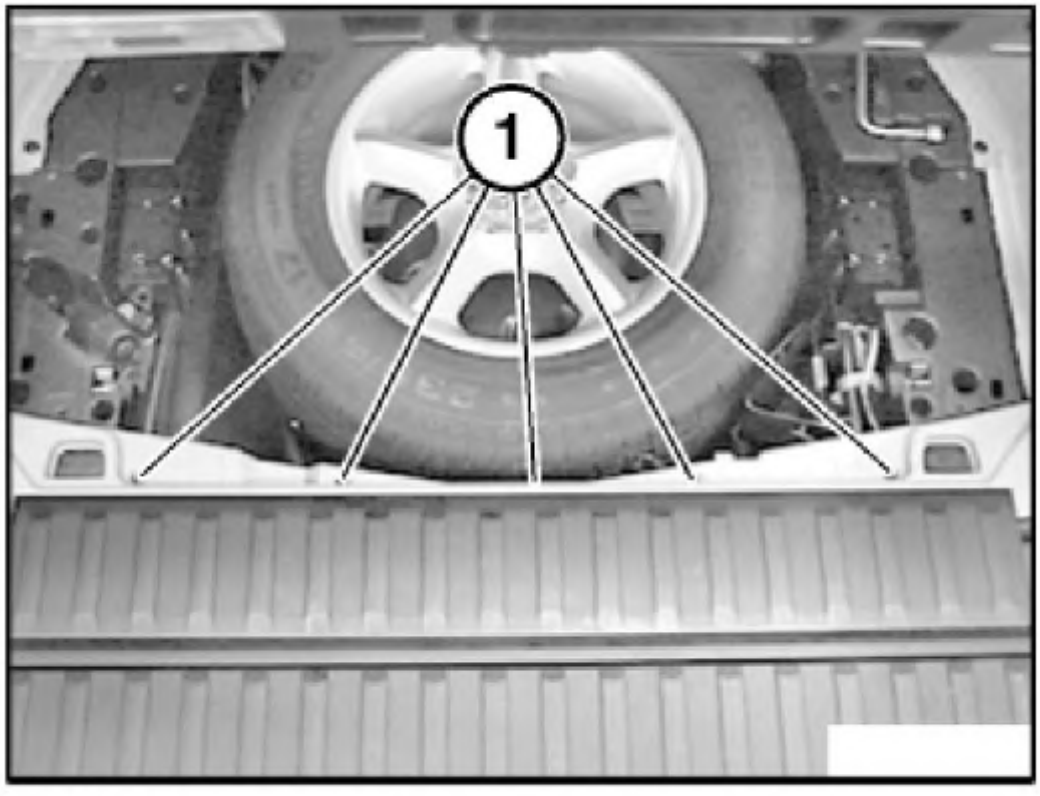


Fig. 414: Releasing Screws
Courtesy of BMW OF NORTH AMERICA, INC.

Release screws (1) on cover (2).

Lift off cover (2).

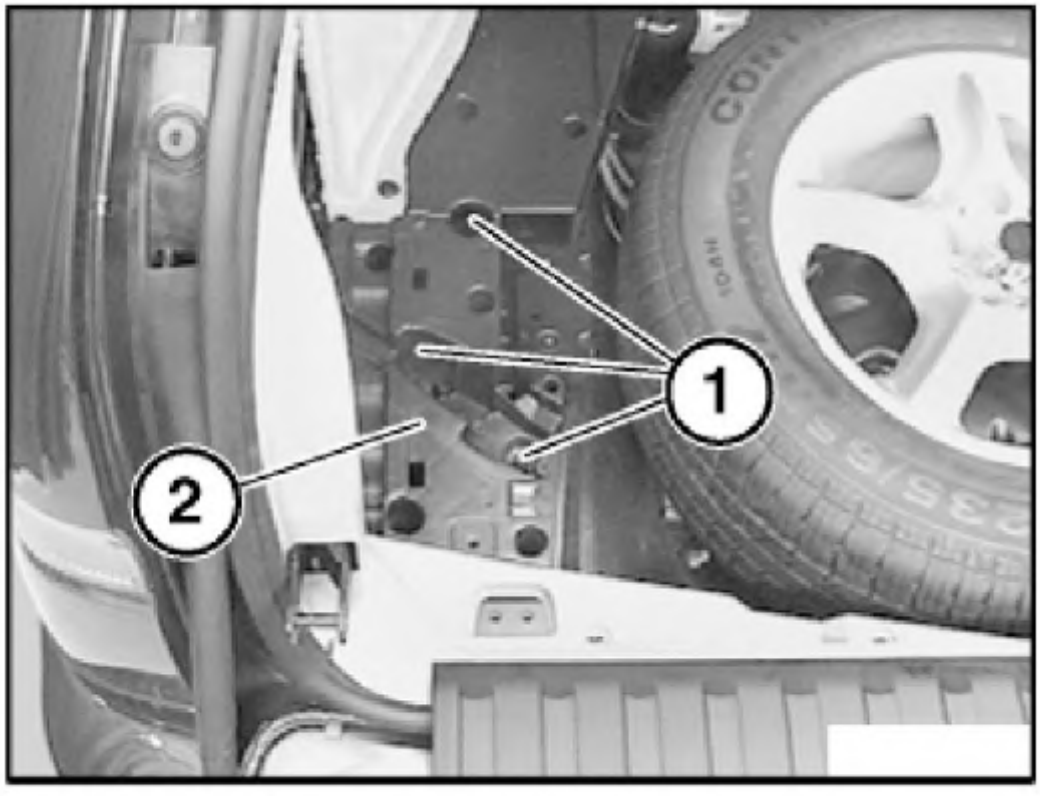


Fig. 415: Releasing Screws On Cover
Courtesy of BMW OF NORTH AMERICA, INC.

Release screws (1) on cover (2).

Lift off cover (2).

Remove trim on tail panel.

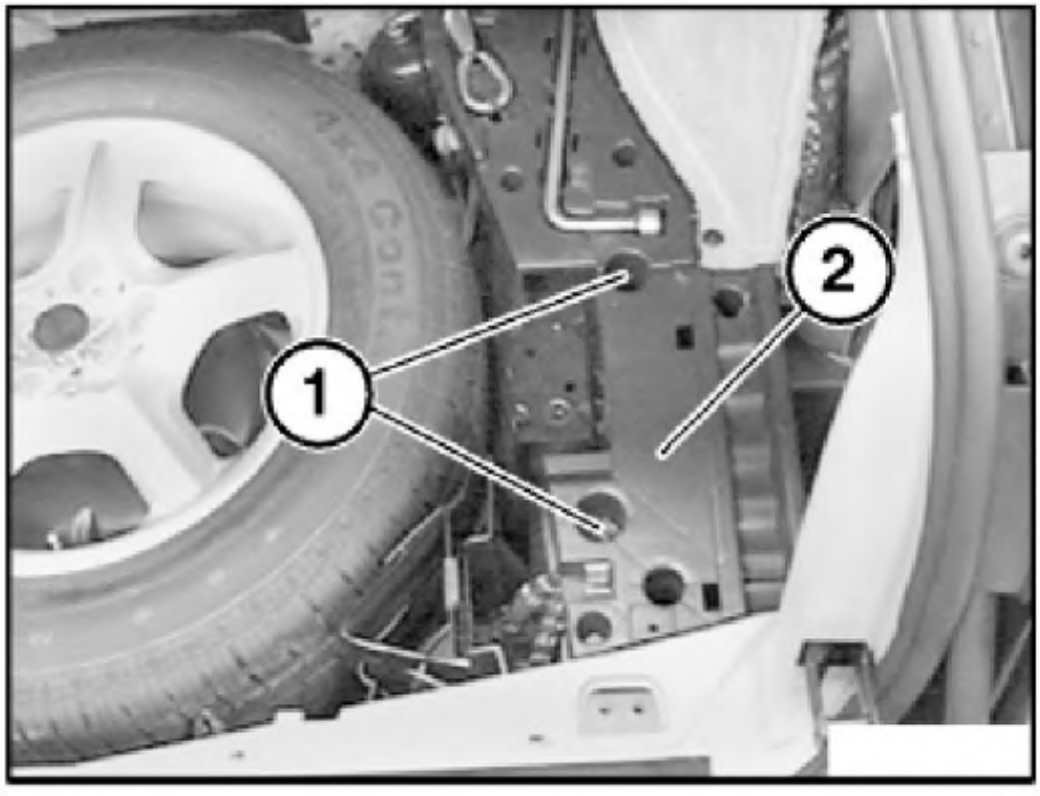


Fig. 416: Removing Trim On Tail Panel
Courtesy of BMW OF NORTH AMERICA, INC.

FLOOR/LUGGAGE/ENG. COMP./TR. PANELS

51 46 050 REMOVING AND INSTALLING/REPLACING FINISHER FOR TOP OF REAR APRON

Remove luggage compartment floor trim panel. See **51 47 101 Removing And Installing/Replacing Luggage Compartment Floor Trim Panel** .

Remove flaps in luggage compartment trim panel on left and right. See **51 47 172 Removing And Installing/Replacing Flap In Luggage Compartment Trim, Left Or Right** .

Raise trim (1) and release screws (2).

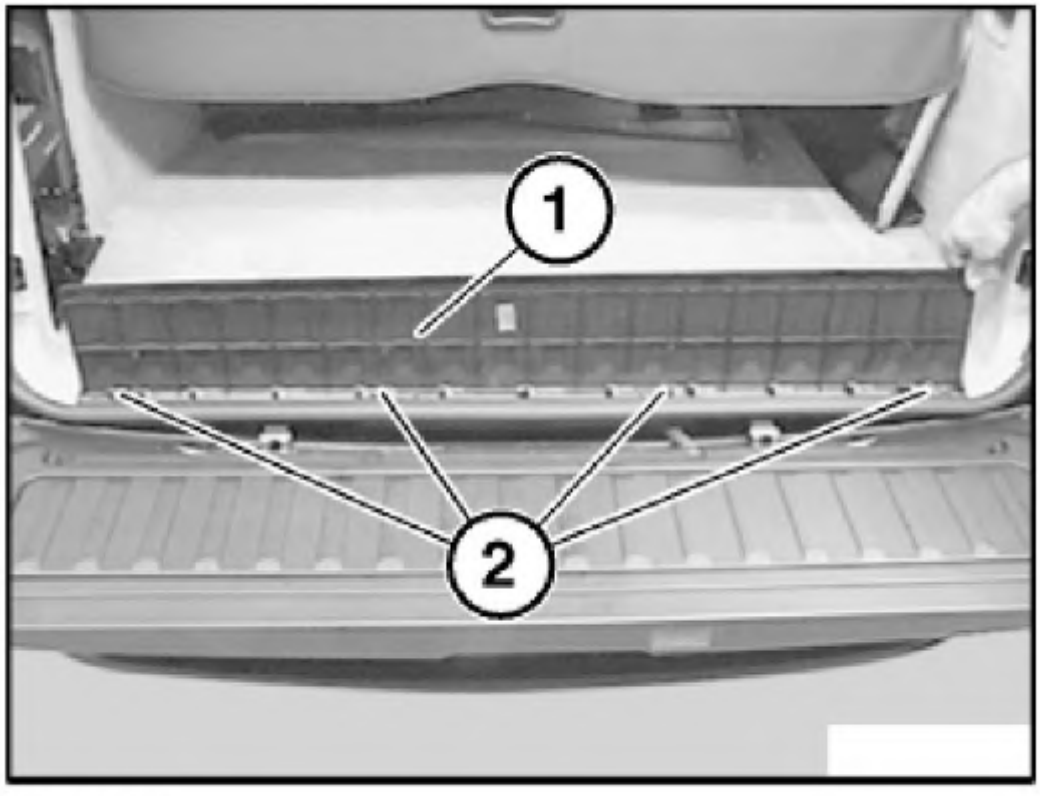


Fig. 417: Raising Trim And Release Screws
Courtesy of BMW OF NORTH AMERICA, INC.

Lever out trim (1) in lashing eyes on opening.

Release screws (2) and lever out lashing eyes.

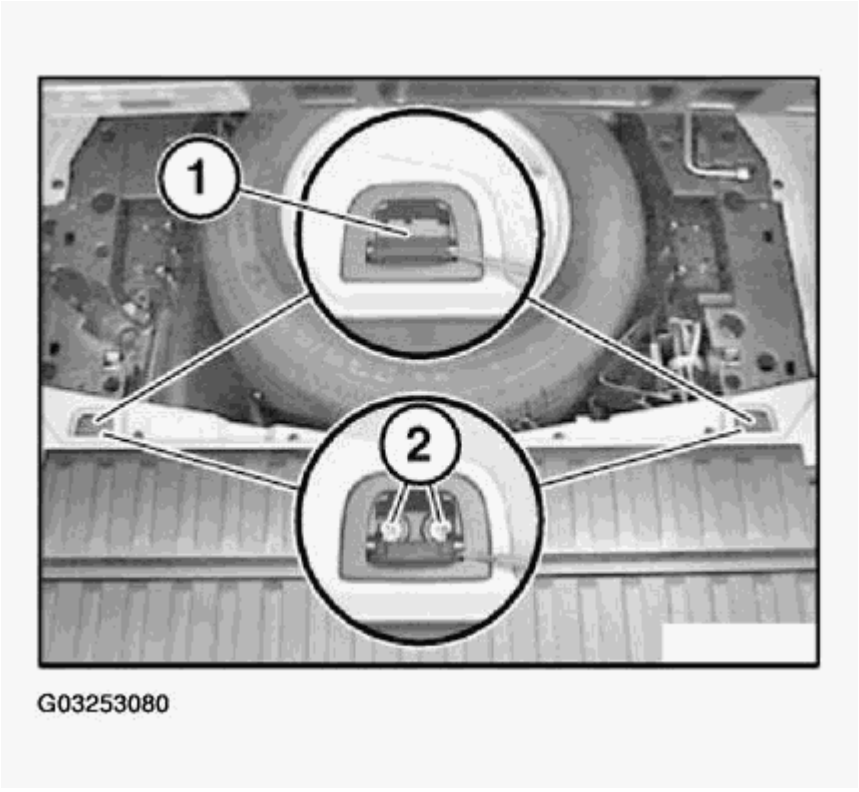


Fig. 418: Releasing Screws And Lever Out Lashing Eyes
Courtesy of BMW OF NORTH AMERICA, INC.

Release screws (1).

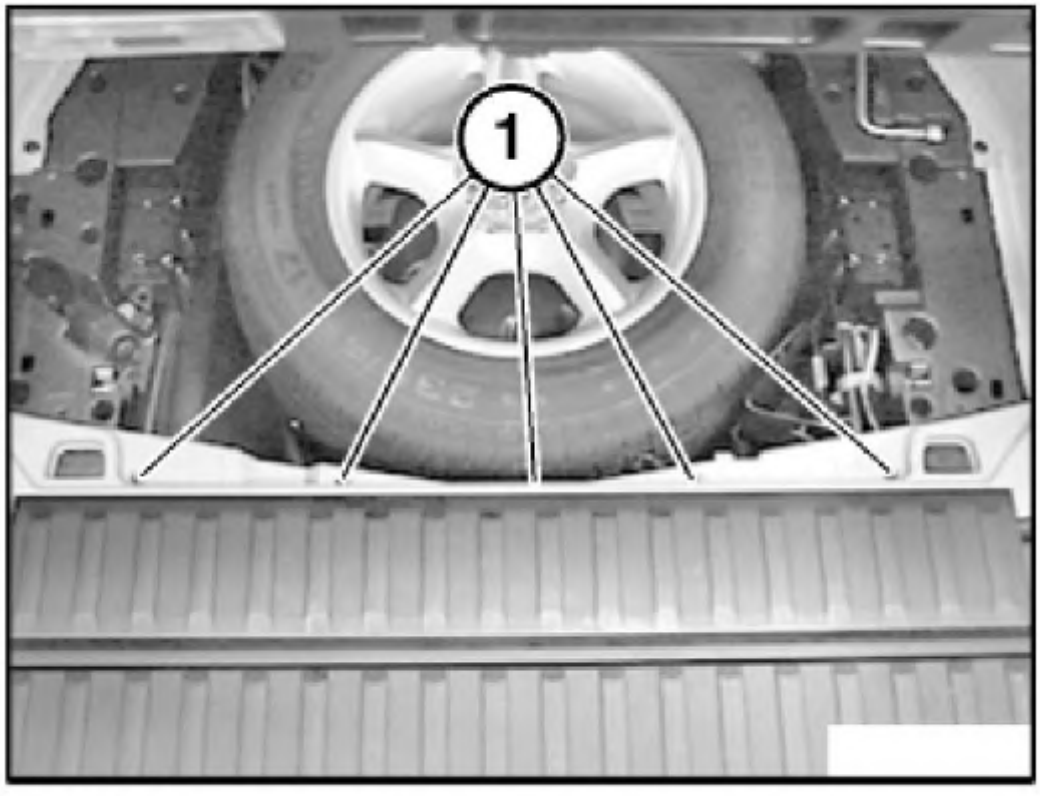


Fig. 419: Releasing Screws
Courtesy of BMW OF NORTH AMERICA, INC.

Release screws (1) on cover (2).

Lift off cover (2).

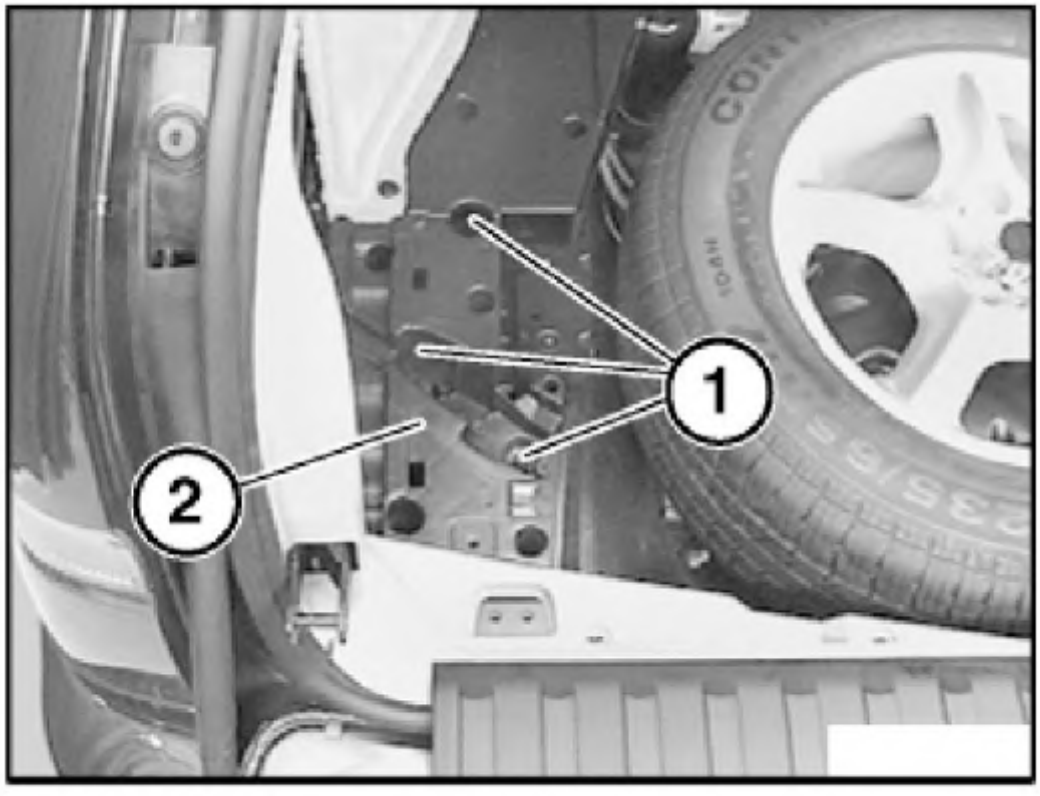


Fig. 420: Releasing Screws On Cover
Courtesy of BMW OF NORTH AMERICA, INC.

Release screws (1) on cover (2).

Lift off cover (2).

Remove trim on tail panel.

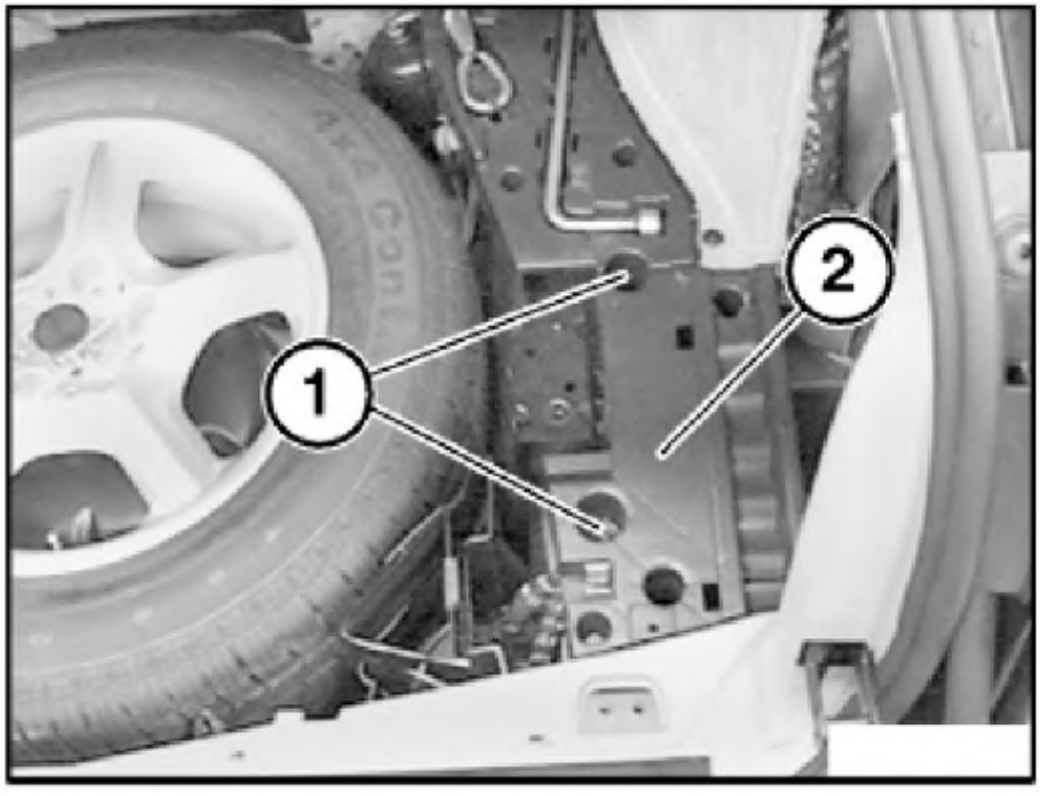


Fig. 421: Lifting Off Cover
Courtesy of BMW OF NORTH AMERICA, INC.

51 47 000 REMOVING AND INSTALLING/REPLACING THE FRONT (INSIDE) LEFT OR RIGHT ROCKER PANEL STRIP

CAUTION: Risk of breakage to connecting lug on B-pillar trim panel.
Do not raise entrance cover strip (1) over entire length simultaneously.

Raise entrance cover strip (1) from front to rear and detach with clips (2) from floor plate.

Detach entrance cover strip (1) from B-pillar trim panel at bottom towards front.

If necessary, lift clips off floor plate.

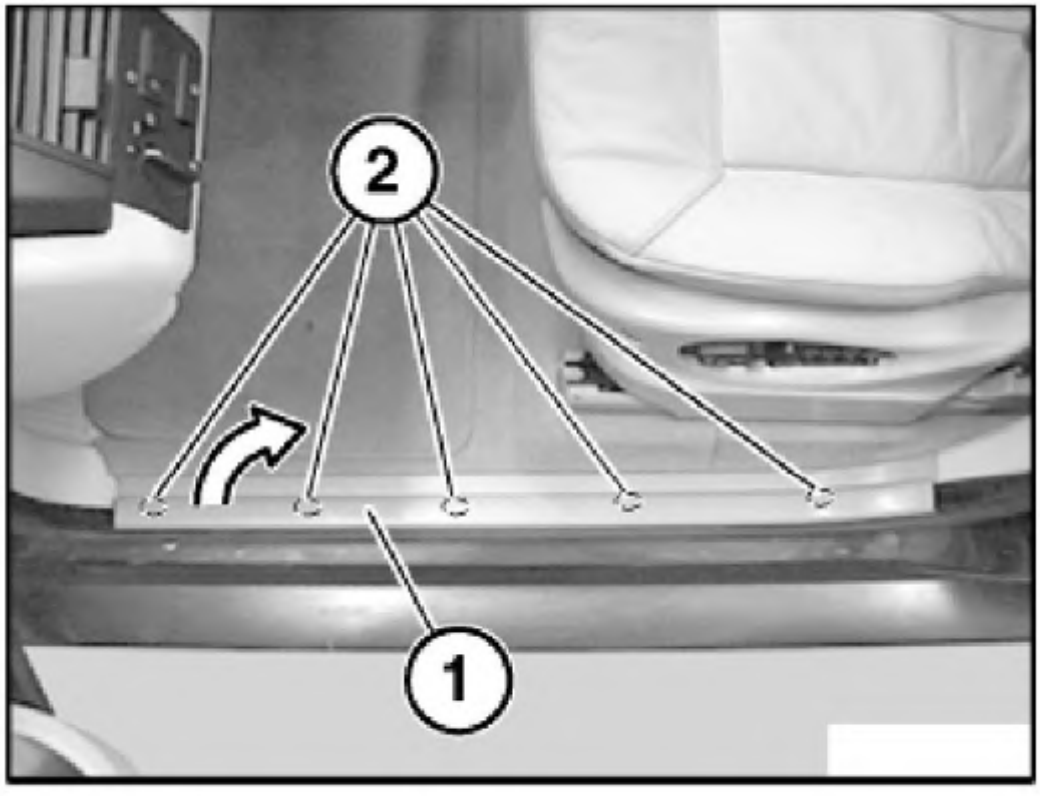


Fig. 422: Detaching Entrance Cover Strip From B-Pillar Trim Panel At Bottom Towards Front
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

If necessary, replace defective clips (1).

Connecting lug (3) of entrance cover strip (2) must not be damaged.

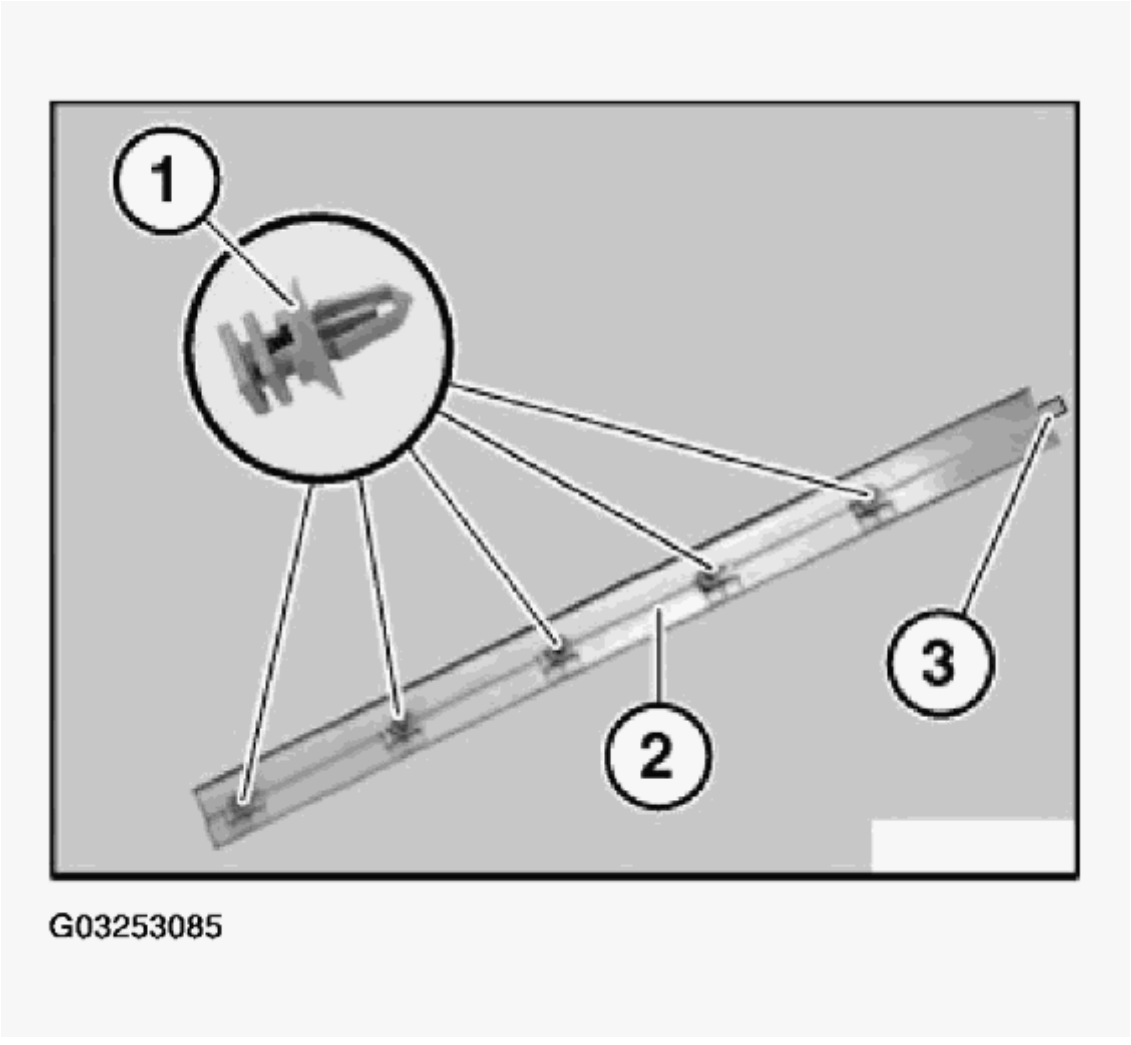
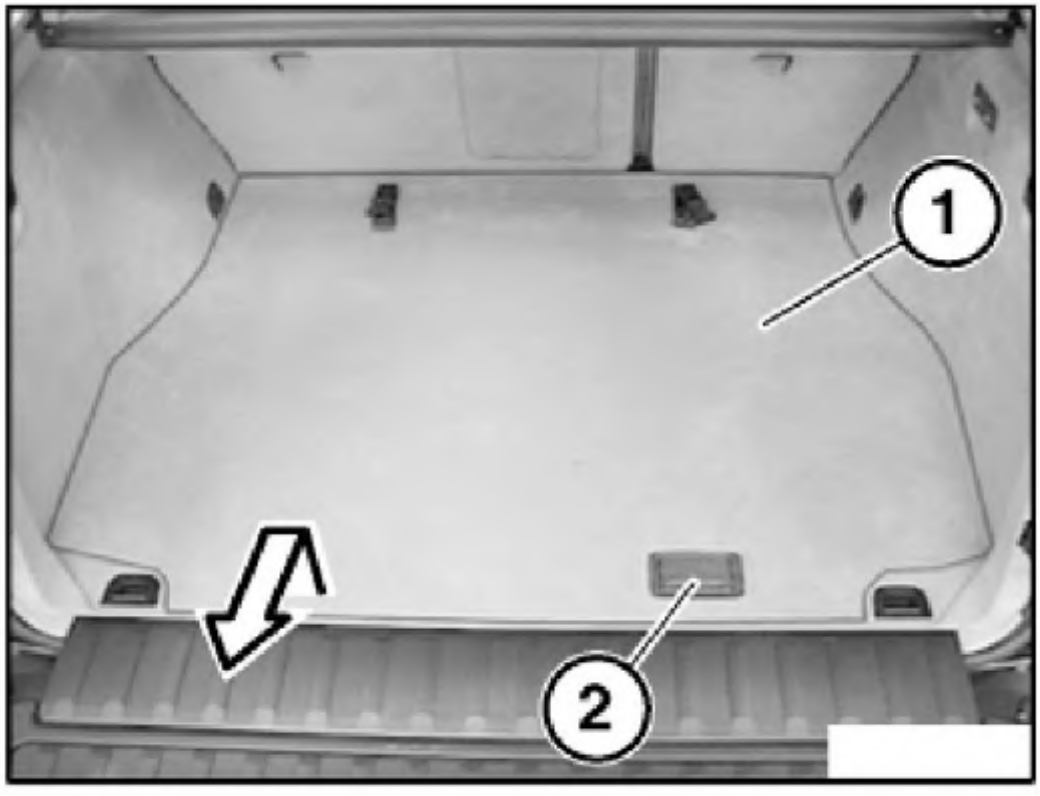


Fig. 423: Checking Connecting Lug Of Entrance Cover Strip
Courtesy of BMW OF NORTH AMERICA, INC.

51 47 101 REMOVING AND INSTALLING/REPLACING LUGGAGE COMPARTMENT FLOOR TRIM PANEL

Open trunk lid.

Unlock luggage compartment floor trim panel (1) at handle (2) and remove.



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Fig. 424: Unlocking Luggage Compartment Floor Trim Panel At Handle
Courtesy of BMW OF NORTH AMERICA, INC.

51 47 151 REMOVING AND INSTALLING/REPLACING TRUNK WHEEL HOUSING TRIM, LEFT

Remove inside window cavity cover strip for door window, rear left. See **51 37 261 Removing And Installing/Replacing Window Cavity Cover Strip For Door Window, Rear Left Or Right** .

Subsequent removal is described in:

Removing right luggage compartment wheel arch trim.

51 47 161 REMOVING AND INSTALLING/REPLACING RIGHT TRUNK WHEEL ARCH TRIM

Remove inside window cavity cover strip for door window, rear right. See **51 37 261 Removing And Installing/Replacing Window Cavity Cover Strip For Door Window, Rear Left Or Right** .

Lever out cover plate (1) in lashing eye.

Unfasten screws (2).

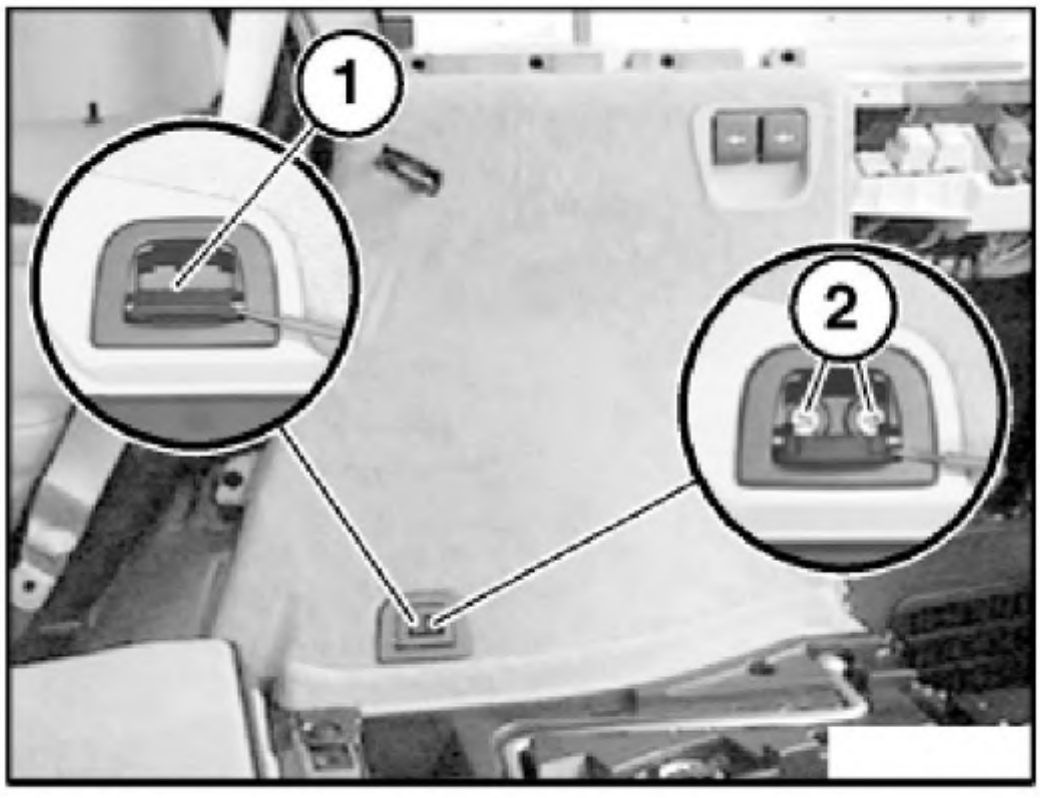


Fig. 425: Unfastening Screws
Courtesy of BMW OF NORTH AMERICA, INC.

Release expansion rivets (1) and (2).

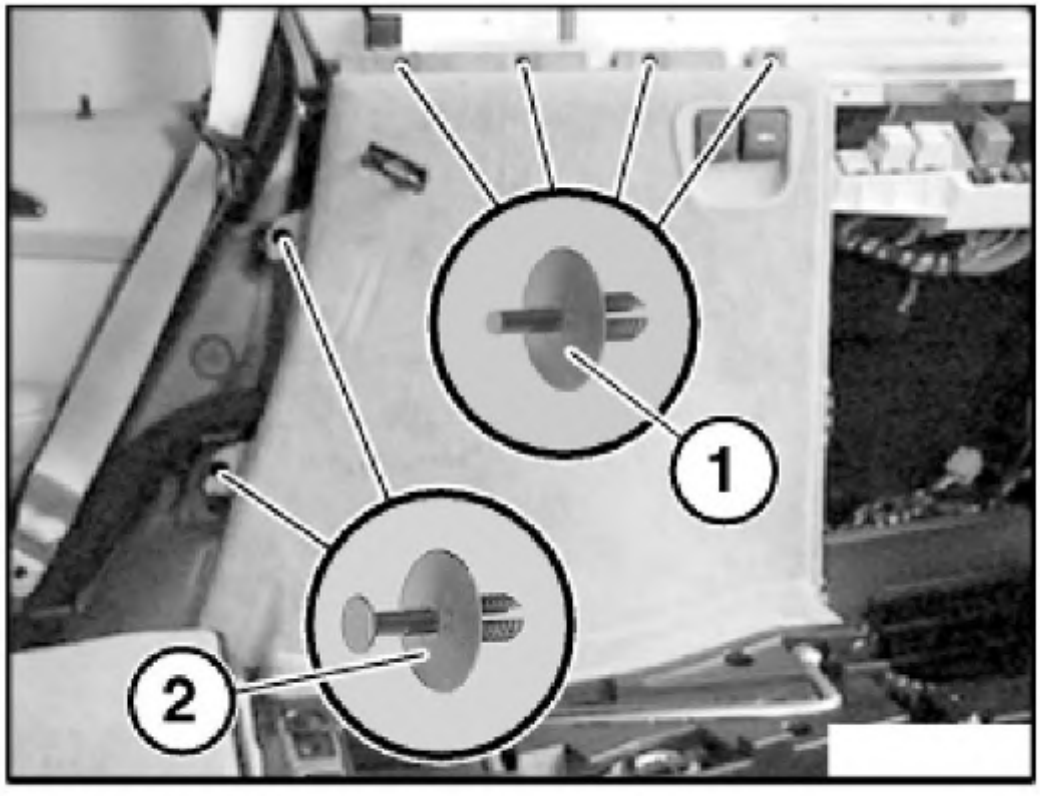


Fig. 426: Releasing Expansion Rivets
Courtesy of BMW OF NORTH AMERICA, INC.

Disconnect plug connections (1) on both 12 V sockets (2).

Removing right luggage compartment wheel arch trim.

Installation:

Check catch of socket housing in luggage compartment wheel arch trim.

If necessary, replace 12 V sockets.

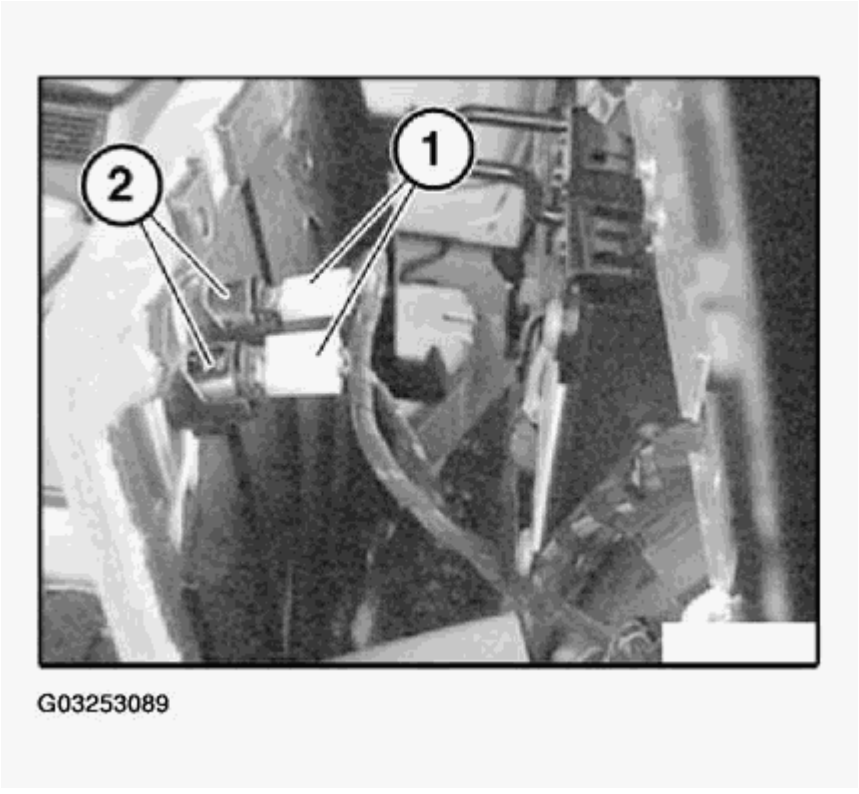


Fig. 427: Disconnecting Plug Connections
Courtesy of BMW OF NORTH AMERICA, INC.

Replacing 12 V sockets:

Open cover (1) of socket housing.

Turn socket insert (2) approx. 30° to right.

Turn socket insert (2) under tension back into initial position and pull out of socket housing.

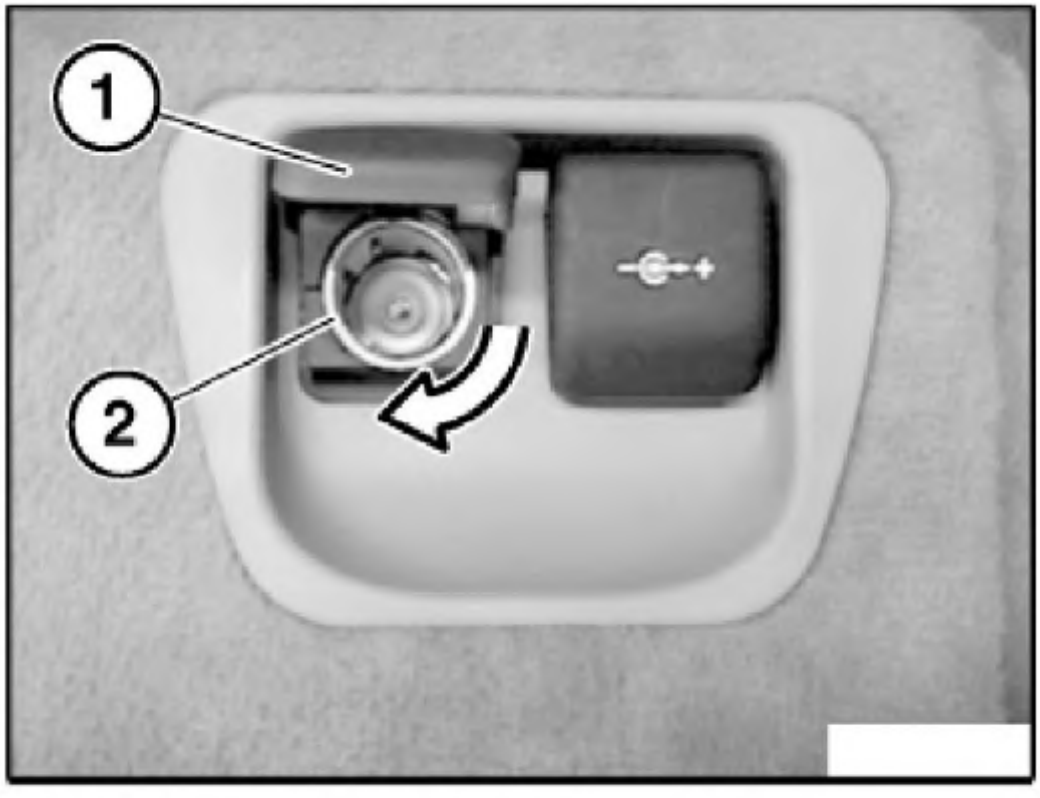
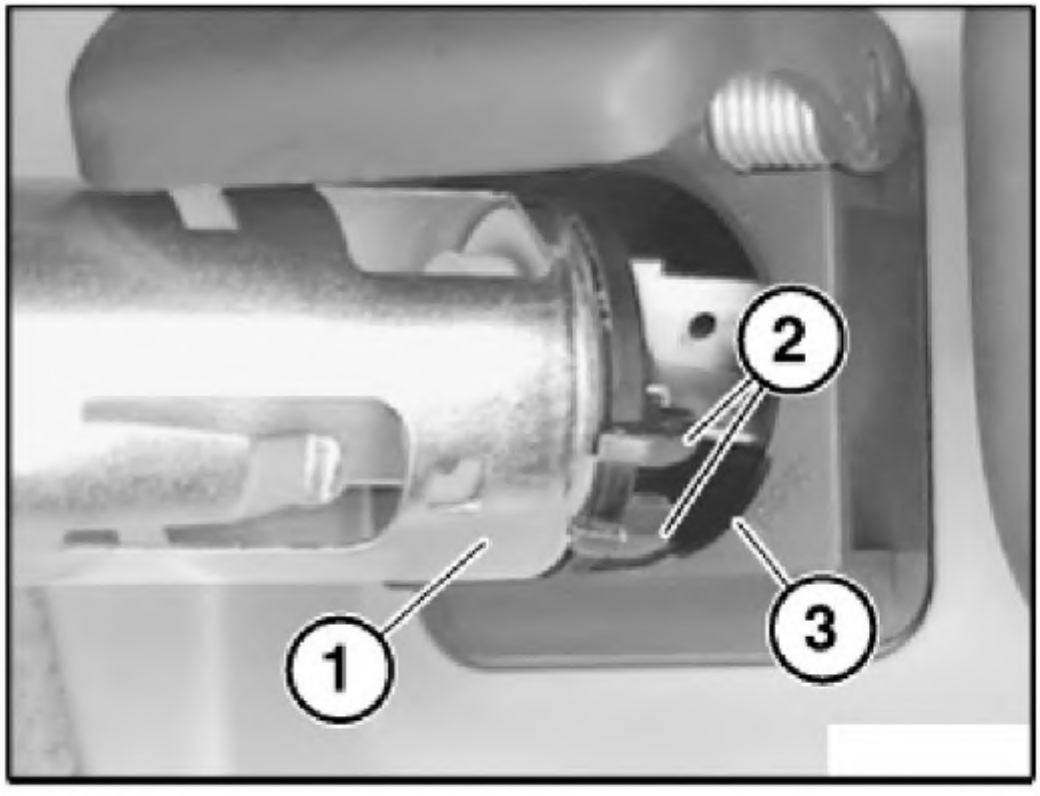


Fig. 428: Opening Cover Of Socket Housing
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Align socket insert (1) with retaining lugs (2) to groove (3) of socket housing and slide in until it is felt snapping into place.



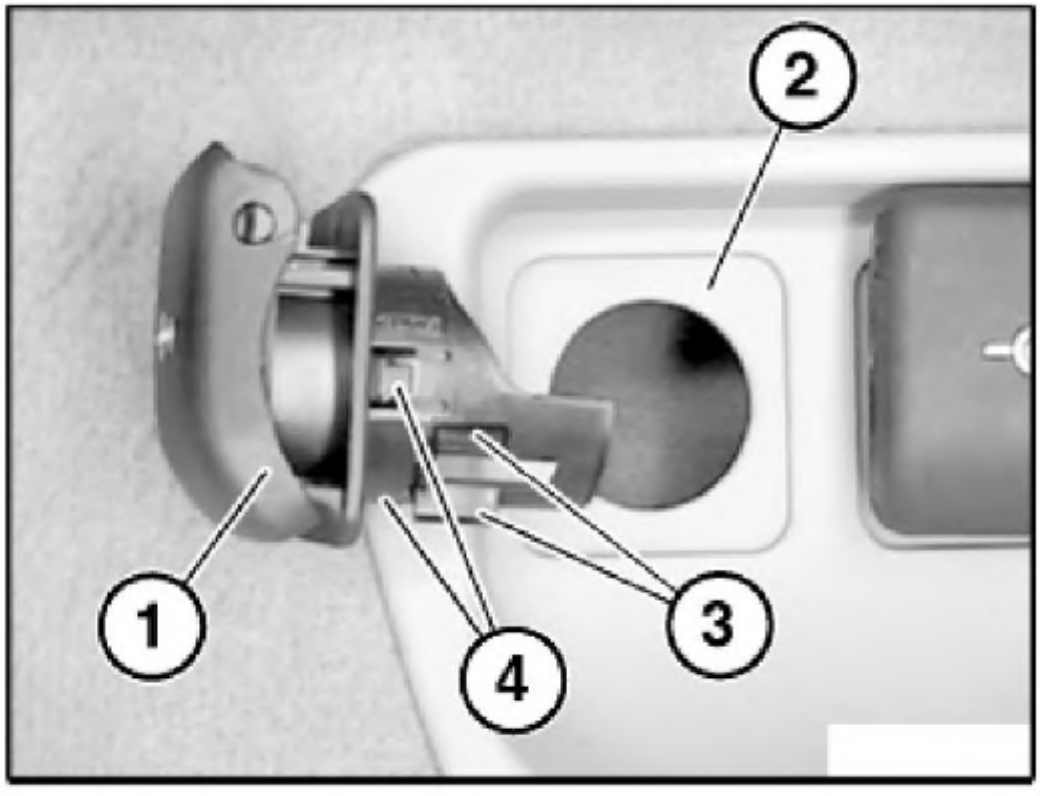
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Fig. 429: Aligning Socket Insert With Retaining Lugs To Groove Of Socket Housing
Courtesy of BMW OF NORTH AMERICA, INC.

Pull socket housing (1) approx. 5 mm out of wheel arch trim (2) and tilt out to right at bottom.

Installation:

Insert socket housing with plastic lugs (3) into wheel arch trim and lock with retaining lugs (4).



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Fig. 430: Pulling Socket Housing
Courtesy of BMW OF NORTH AMERICA, INC.

51 47 172 REMOVING AND INSTALLING/REPLACING FLAP IN LUGGAGE COMPARTMENT TRIM, LEFT OR RIGHT

Left Side:

Left side:

Press release button (1).

Open flap (2) and remove.

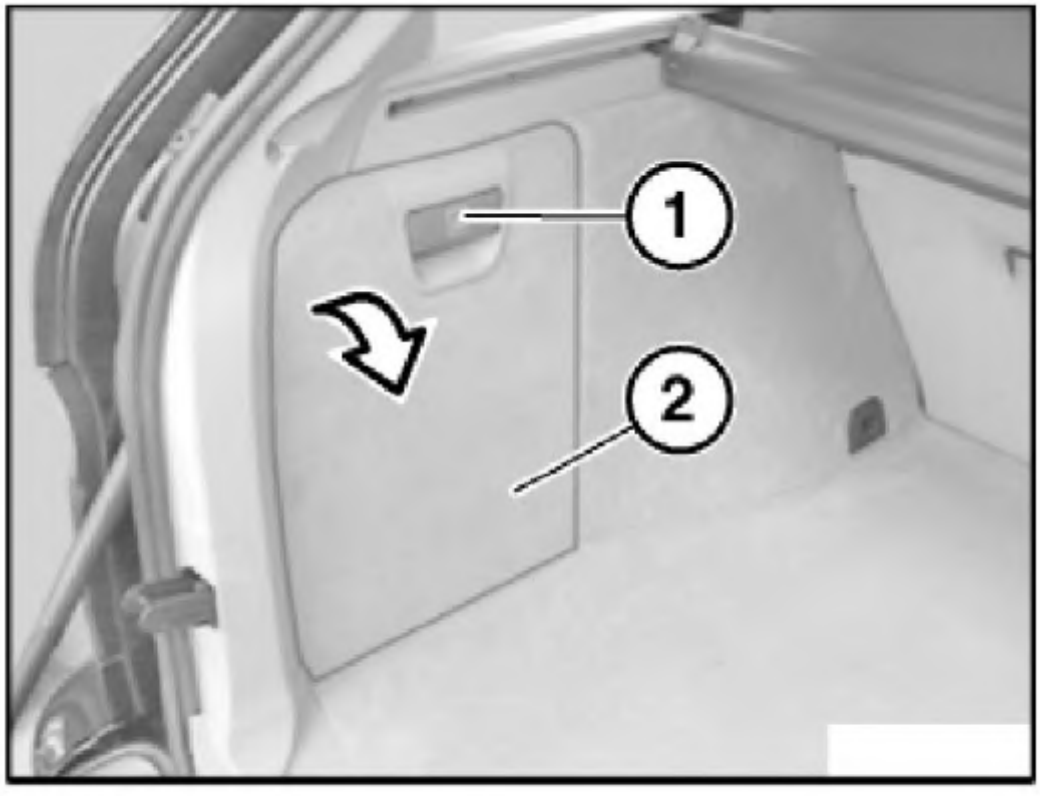


Fig. 431: Pressing Release Button
Courtesy of BMW OF NORTH AMERICA, INC.

Right Side:

Press release button (1).

Open flap (2) and remove.

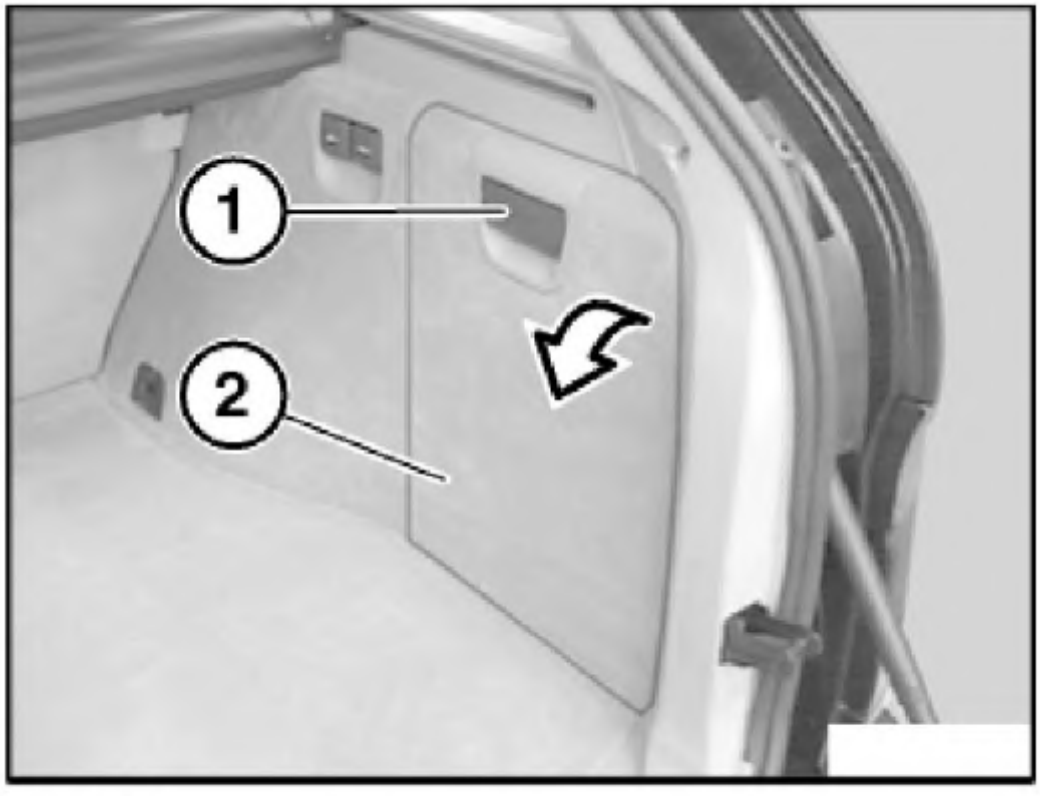


Fig. 432: Pressing Release Button
Courtesy of BMW OF NORTH AMERICA, INC.

51 47 490 REMOVING AND INSTALLING/REPLACING FRONT ASSEMBLY UNDERSIDE PROTECTION

Unfasten screws (2 and 3).

Pull forward assembly underside protection (1) under bumper trim and wheel arch trims (4) on left/right.

Installation:

Make sure wheel arch trims (4) on left/right are correctly seated.

Center underside protection (1) and tighten down screws (2 and 3).

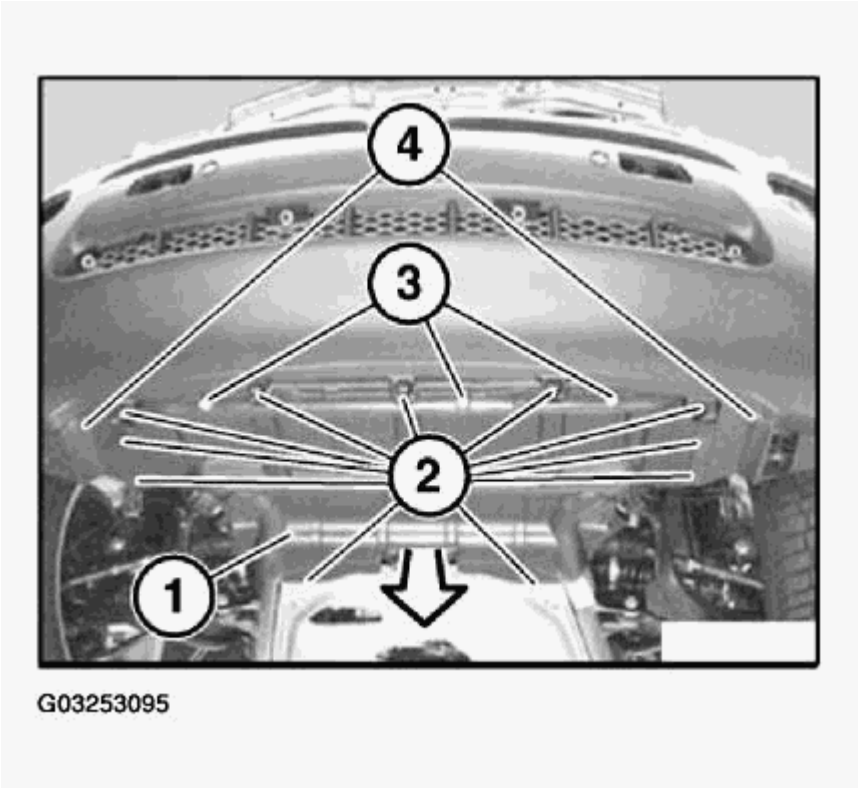


Fig. 433: Centering Underside Protection
Courtesy of BMW OF NORTH AMERICA, INC.

51 47 491 REMOVING AND INSTALLING/REPLACING REAR UNDERBODY PROTECTION

NOTE: Illustration shows one example only. Differences in detail may be possible in the different engine variants.

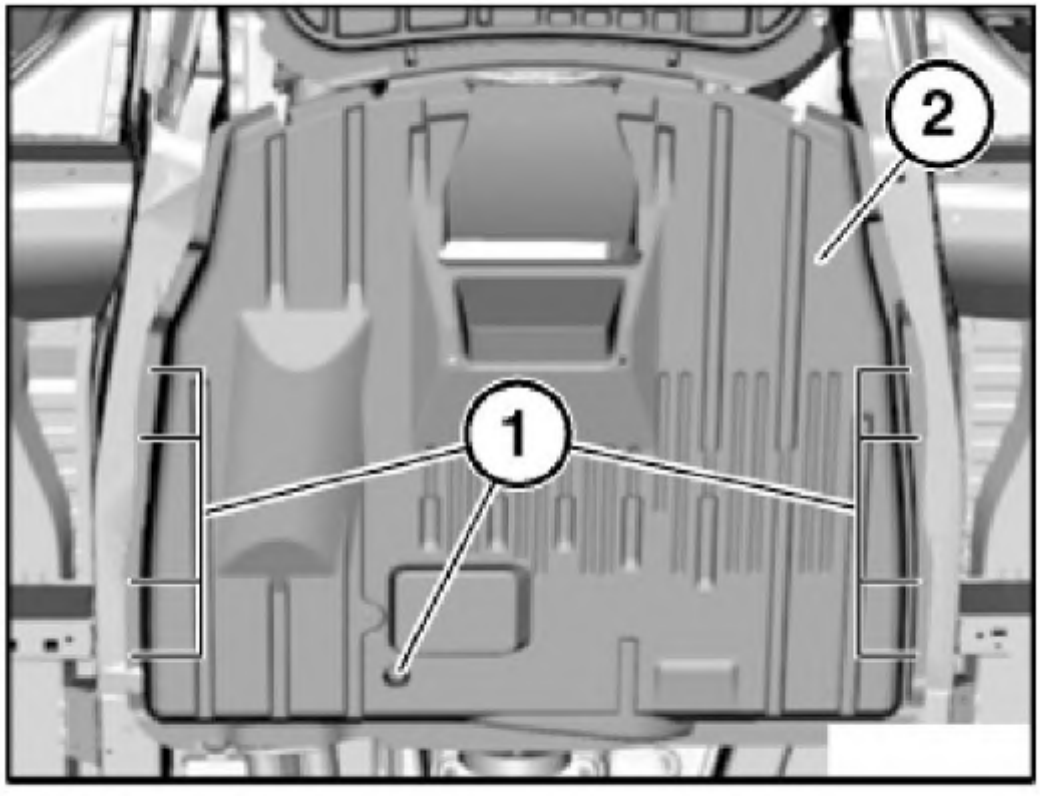
Release screws (1).

Remove underbody protection (2).

Installation:

Ensure correct seating.

Center underbody protection (2) and tighten down all screws.



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Fig. 434: Releasing Screws
Courtesy of BMW OF NORTH AMERICA, INC.

FRONT LID INSULATION LINING

51 48 ... REMOVING AND INSTALLING/REPLACING SOUND INSULATION IN FRONT DOOR, LEFT OR RIGHT

Special Tools Required

- 00 9 317

Removal & Installation

Remove front door trim panel. See **51 41 000 Removing And Installing Left Or Right Front Door Trim Panel** .

If necessary, remove airbag module in front door. See **SIDE AIR BAG MODULE** .

Using special tool 00 9 317 (trim panel wedge), lever out sealing bead (1) of sound insulation (2) completely or if necessary partially.

Feed airbag lead (3) out of sound insulation (2).

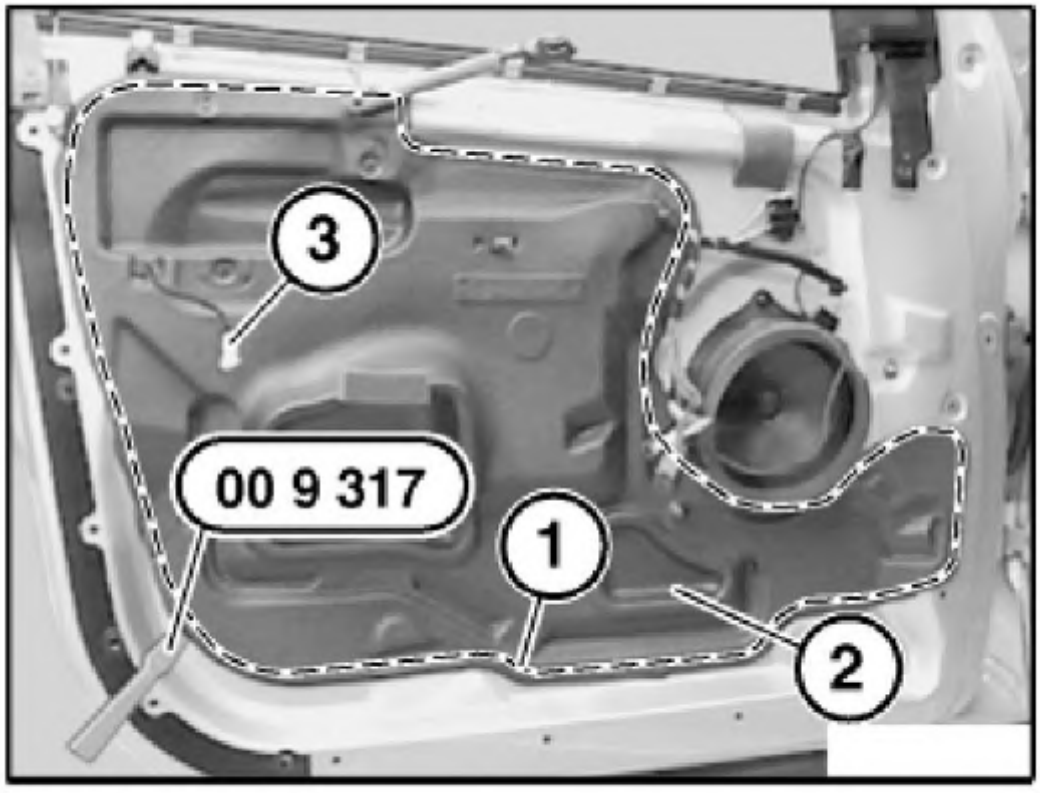


Fig. 435: Identifying Sealing Bead
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

In event of replacement or partial detachment, lay butylene tape (sourcing reference: BMW Parts) on inner door plate or sound insulation.

Seal cable penetrations with butylene tape.

NOTE: Position of butylene tape (1) on inner door plate.

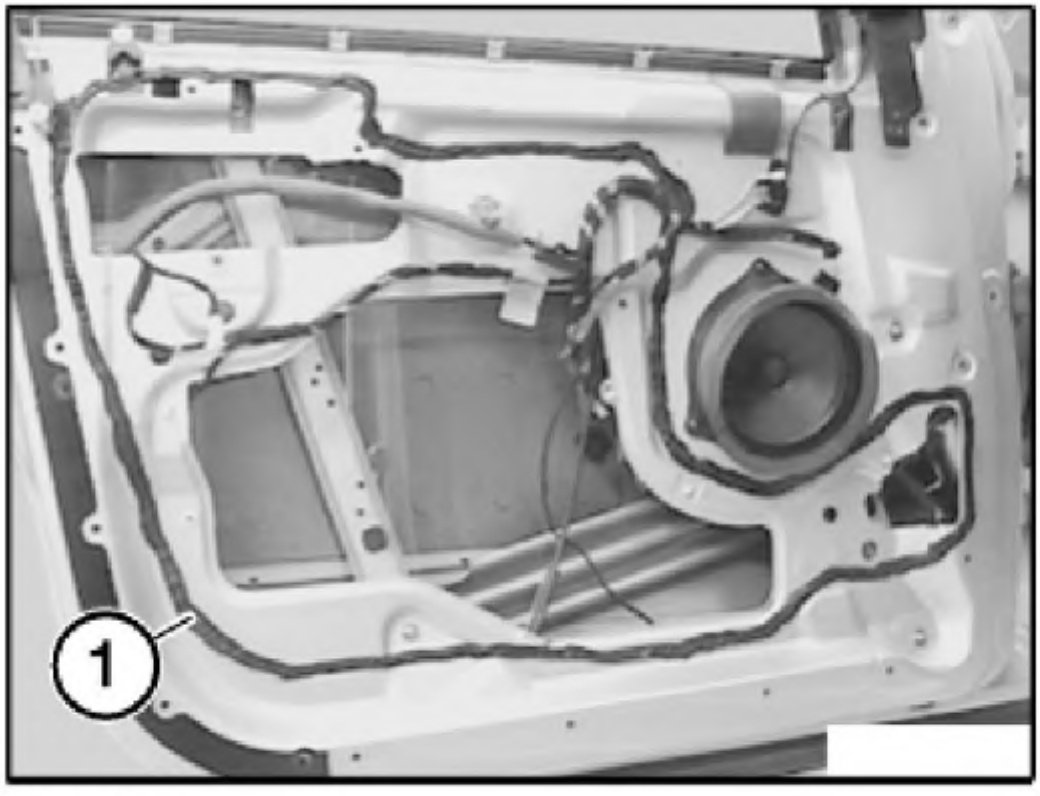


Fig. 436: Positioning Of Butylene Tape On Inner Door Plate
Courtesy of BMW OF NORTH AMERICA, INC.

NOTE: Position of butylene tape (1) on sound insulation (2).

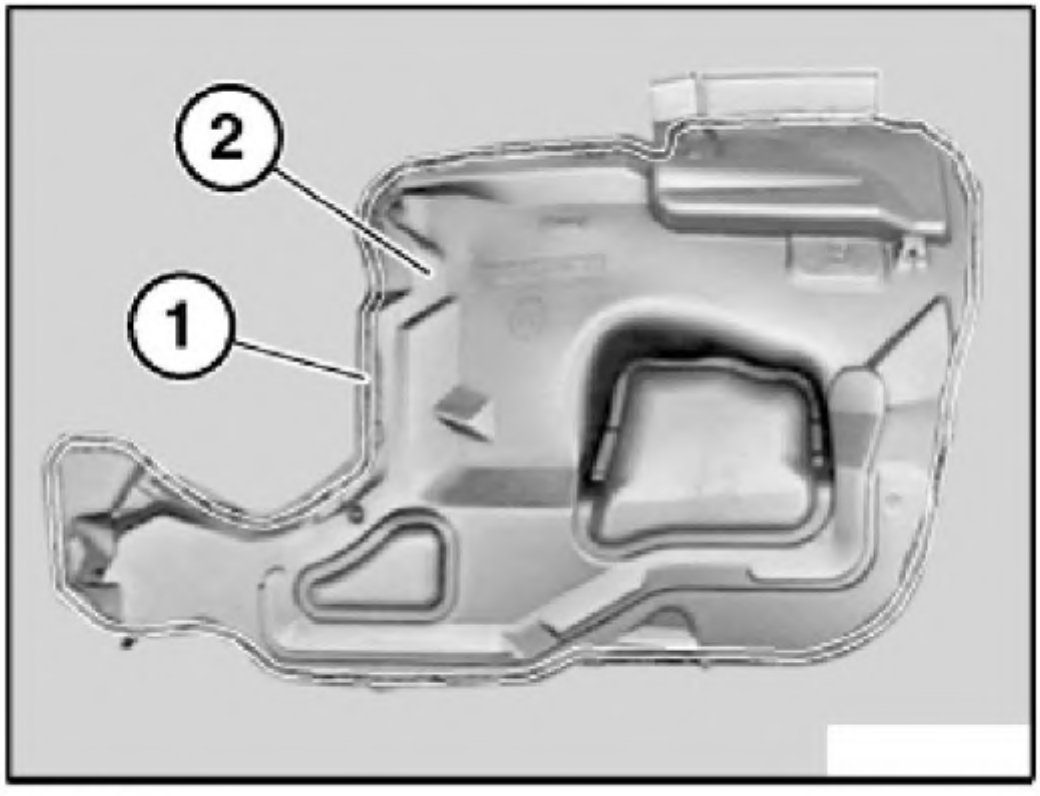


Fig. 437: Positioning Of Butylene Tape On Sound Insulation
Courtesy of BMW OF NORTH AMERICA, INC.

Clean specified adhesive area with adhesive cleaner (sourcing reference: BMW Parts Service).

Air drying time: 1 minute

CAUTION: The adhesive areas must be dry and free from dust and grease. After cleaning, do not touch the adhesive areas with bare hands.

Lay single row of 6 mm dia. butylene tape or double row of 3 mm dia. tape (sourcing reference: BMW Parts Service) in specified adhesive area.

Heat butylene tape (hot air blower) and press down firmly on sound insulation all around.

Contact pressure with hand roller: approx. 30 N/cm^2

Manual contact pressure: approx. 10 N/cm^2

NOTE: Firm thumb pressure has approx. 50 N/cm^2

51 48 ... REMOVING AND INSTALLING/REPLACING SOUND INSULATION IN REAR DOOR, LEFT OR RIGHT

Special Tools Required

- 00 9 317

Removal & Installation

Remove rear door trim panel. See **51 42 000 Removing And Installing Rear Left Or Right Door Trim Panel** .

If necessary, remove airbag module in rear door. See **SIDE AIR BAG MODULE** .

Using special tool 00 9 317 (trim panel wedge), lever out sealing bead (1) of sound insulation (2) completely or if necessary partially.

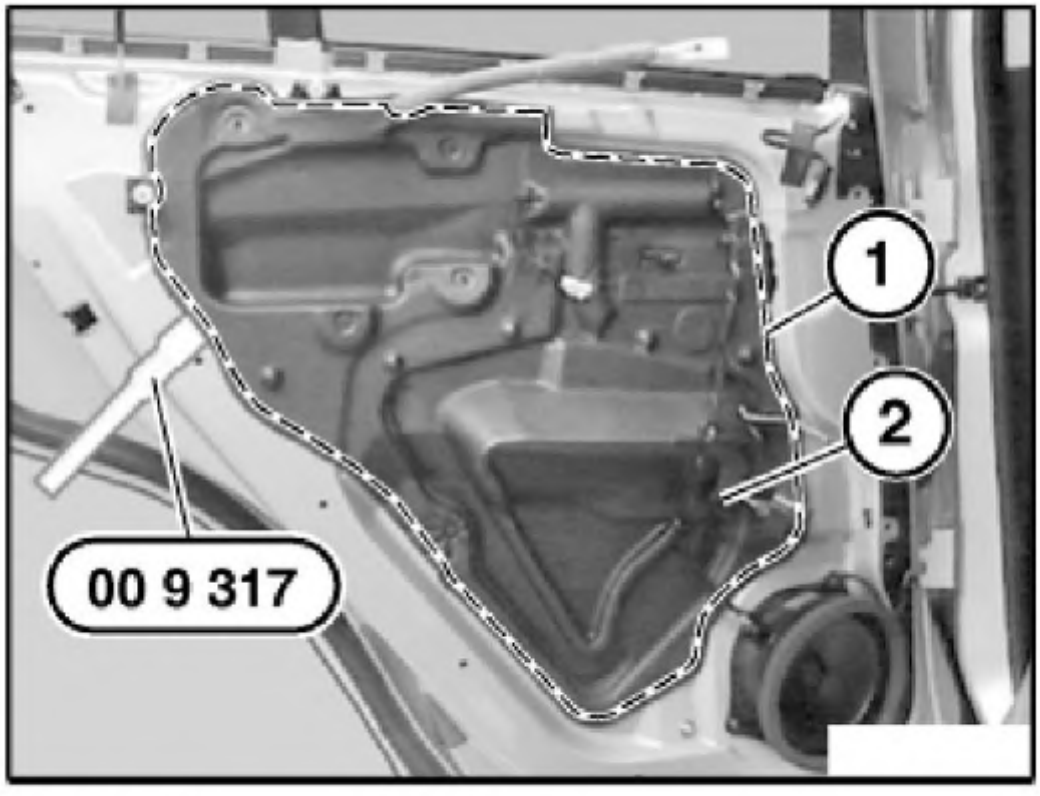


Fig. 438: Identifying Sealing Bead Of Sound Insulation
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

In event of replacement or partial detachment, lay butylene tape (sourcing reference: BMW Parts) on inner door plate or sound insulation.

Seal cable penetrations with butylene tape.

NOTE: Position of butylene tape (1) on inner door plate.

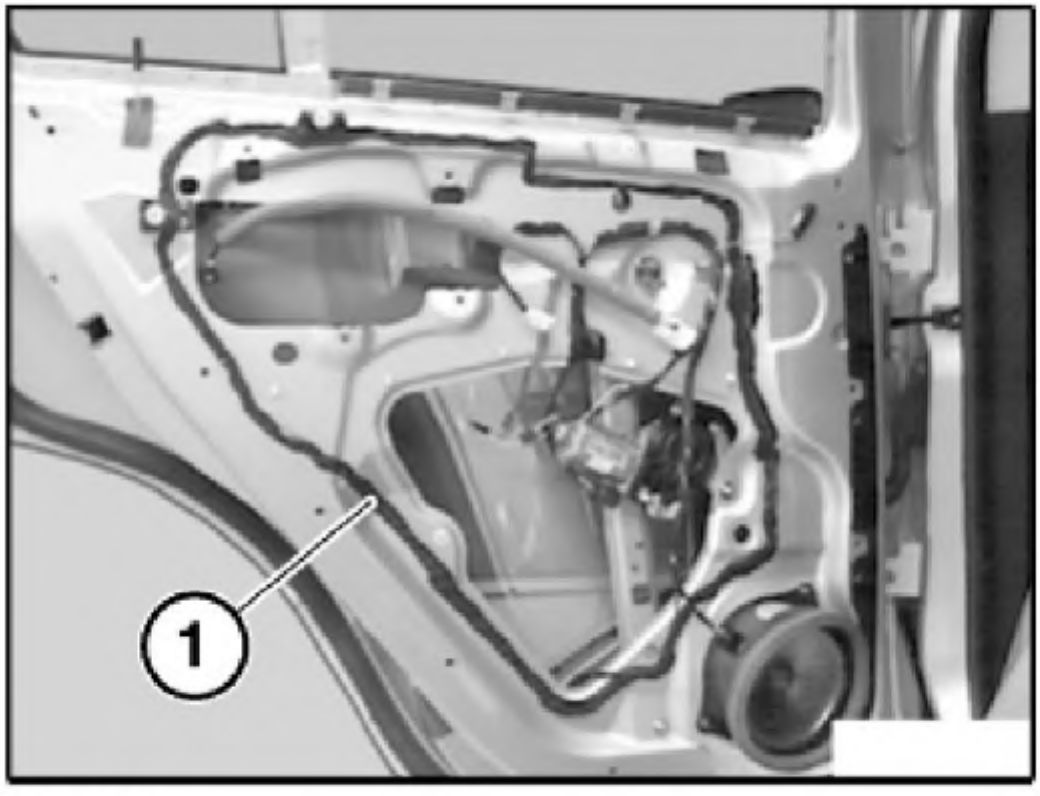


Fig. 439: Positioning Of Butylene Tape On Inner Door Plate
Courtesy of BMW OF NORTH AMERICA, INC.

NOTE: Position of butylene tape (1) on sound insulation (2).

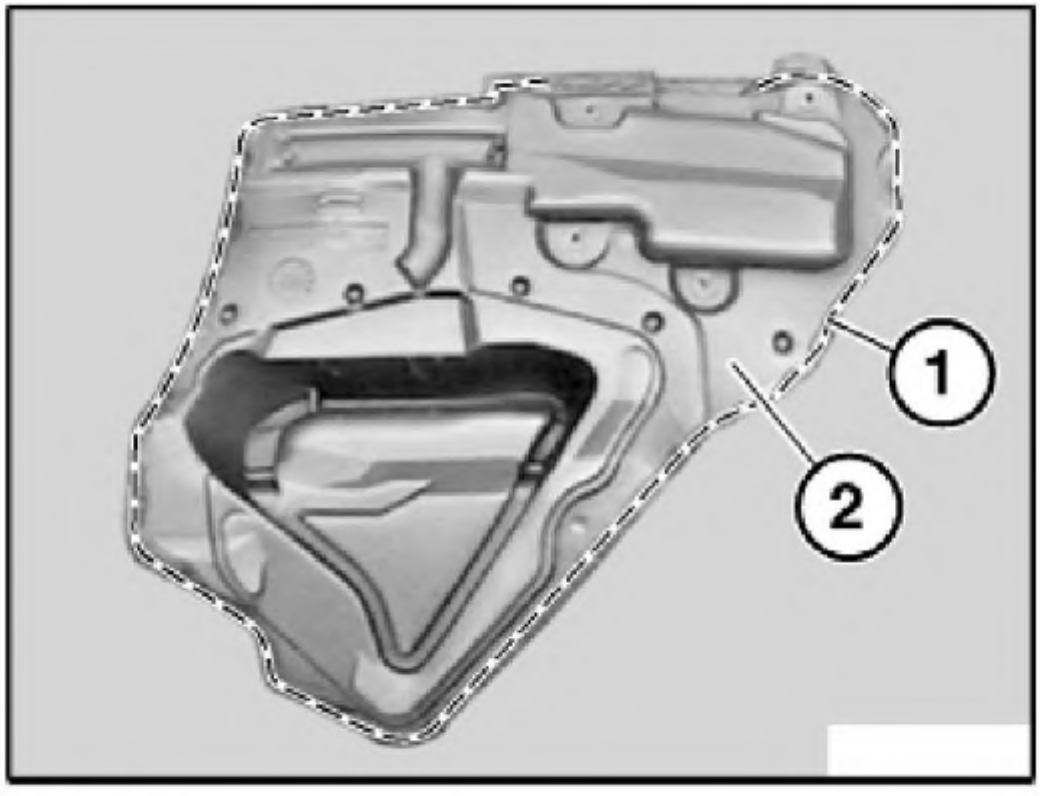


Fig. 440: Positioning Of Butylene Tape On Sound Insulation
Courtesy of BMW OF NORTH AMERICA, INC.

Clean specified adhesive area with adhesive cleaner (sourcing reference: BMW Parts Service).

Air drying time: 1 minute

CAUTION: The adhesive areas must be dry and free from dust and grease. After cleaning, do not touch the adhesive areas with bare hands.

Lay single row of 6 mm dia. butylene tape or double row of 3 mm dia. tape (sourcing reference: BMW Parts Service) in specified adhesive area.

Heat butylene tape (hot air blower) and press down firmly on sound insulation all around.

Contact pressure with hand roller: approx. 30 N/cm^2

Manual contact pressure: approx. 10 N/cm^2

NOTE: Firm thumb pressure has approx. 50 N/cm^2

51 48 001 REMOVING AND INSTALLING/REPLACING INSULATION LINING ON HOOD/BONNET

NOTE: Illustration created using the E87 as an example. There may be differences in detail in the case of other vehicle models.

Release threaded rivets (1) on insulation lining (2).

Remove insulation lining (2).

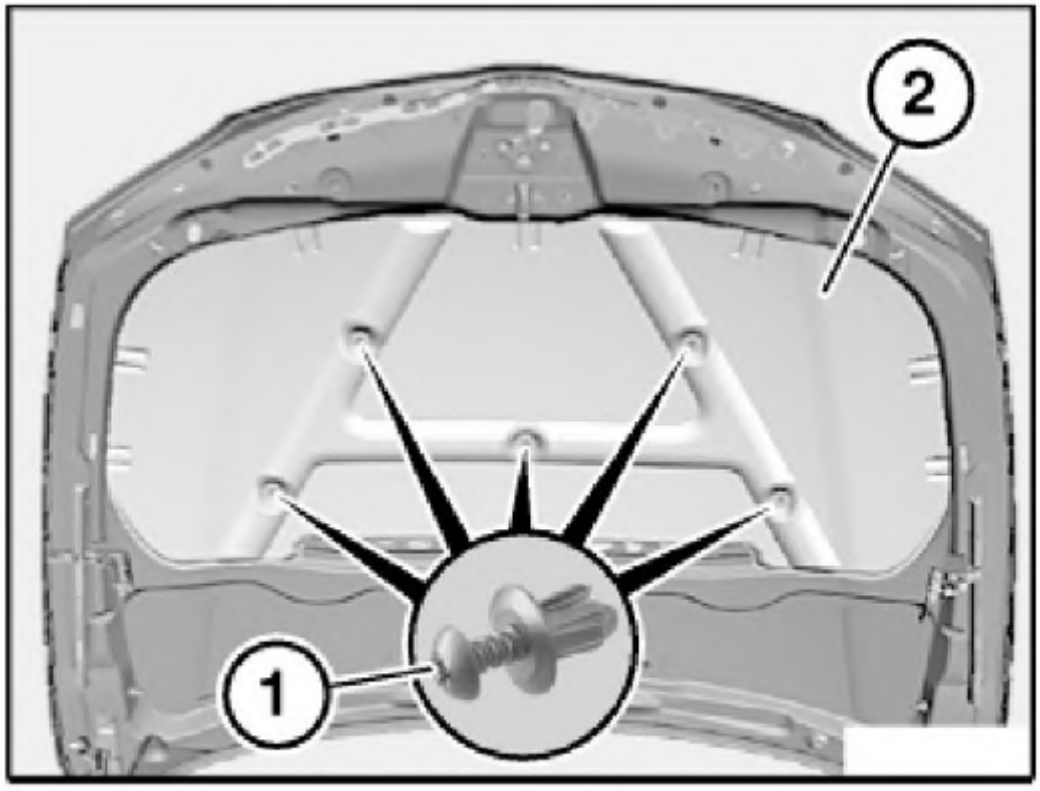


Fig. 441: Releasing Threaded Rivets On Insulation Lining
Courtesy of BMW OF NORTH AMERICA, INC.

REAR LID TRIM PANEL

51 49 050 REMOVING AND INSTALLING/REPLACING LOWER TRIM FOR REAR LID UPPER SECTION

Special Tools Required

- 00 9 317

Removal & Installation

Remove trunk lamps (in rear lid upper section). **63 31 080 REMOVING AND INSTALLING/REPLACING LUGGAGE COMPARTMENT LIGHT** .

Using special tool 00 9 317, lever out side trim (1) on left/right with clip (2) from retainer (3) in lower trim (4).

Installation:

If necessary, replace faulty retainer (5).

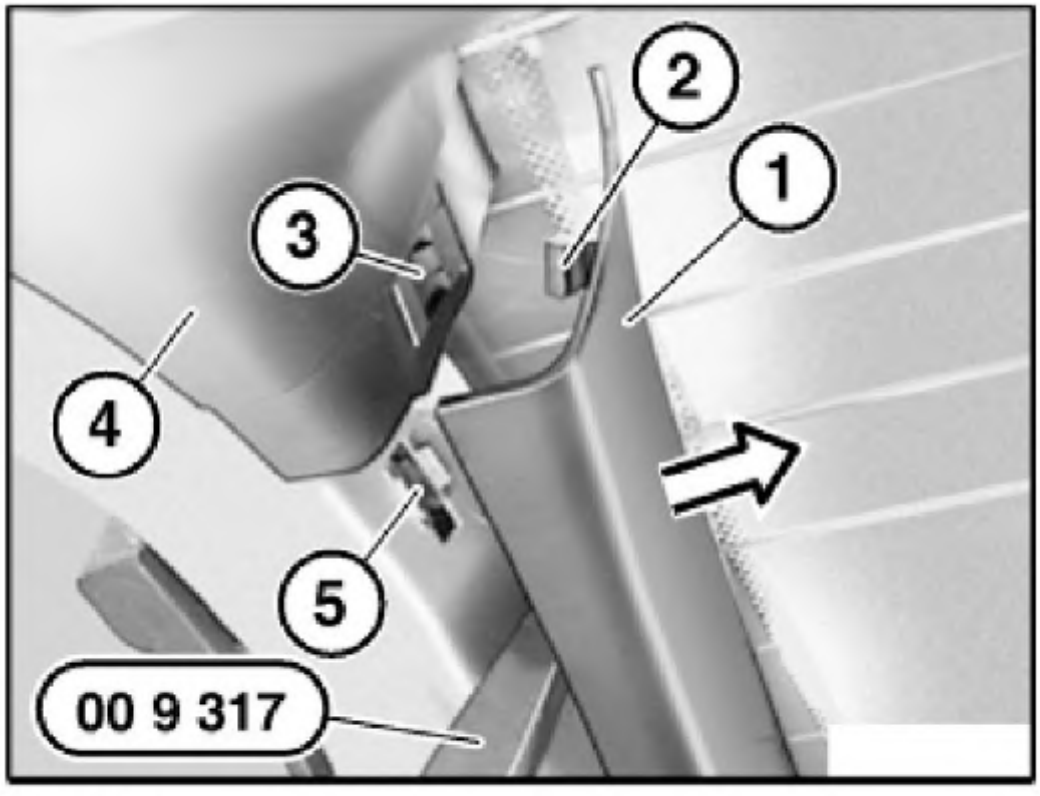


Fig. 442: Checking Retainer
Courtesy of BMW OF NORTH AMERICA, INC.

Remove protective caps (1) and release screws underneath.

Release screws (2).

Lever out side trims (3) and clip out lower trim (4).

Feed emergency actuator (5) out of trim (4).

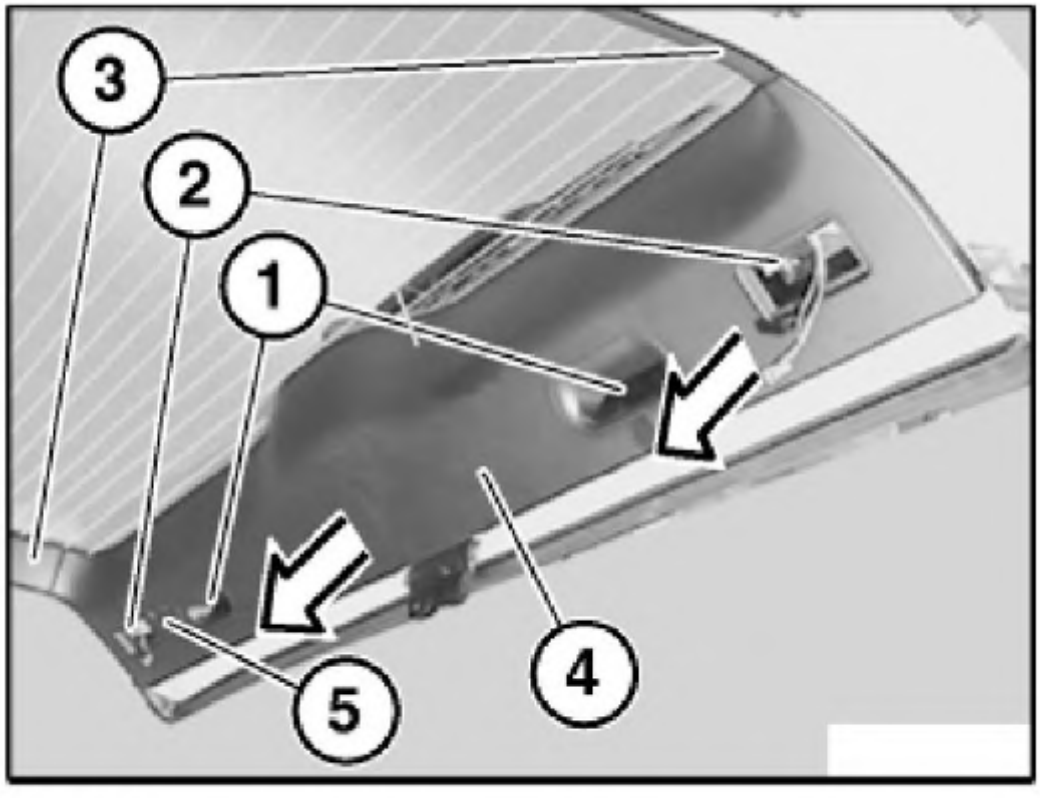


Fig. 443: Removing Protective Caps
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

If necessary, replace faulty retainers (1) and clips (2) in trim (3).

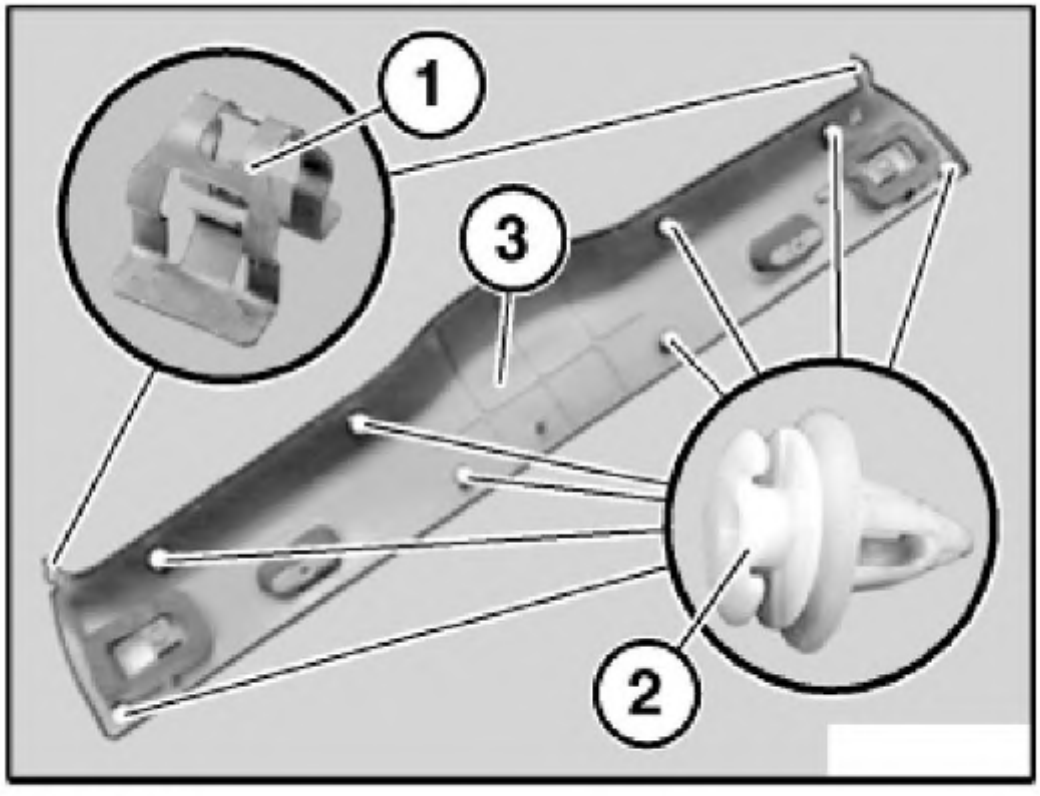


Fig. 444: Checking Retainers And Clips In Trim
Courtesy of BMW OF NORTH AMERICA, INC.

51 49 053 REMOVING AND INSTALLING/REPLACING SIDE TRIM FOR REAR LID UPPER SECTION

Special Tools Required

- 00 9 317

Removal & Installation

Open rear lid at top.

Using special tool 00 9 317, lever out side trim (1) on left/right with clip (2) from retainer (3) in lower trim (4).

Installation:

If necessary, replace faulty retainer (5).

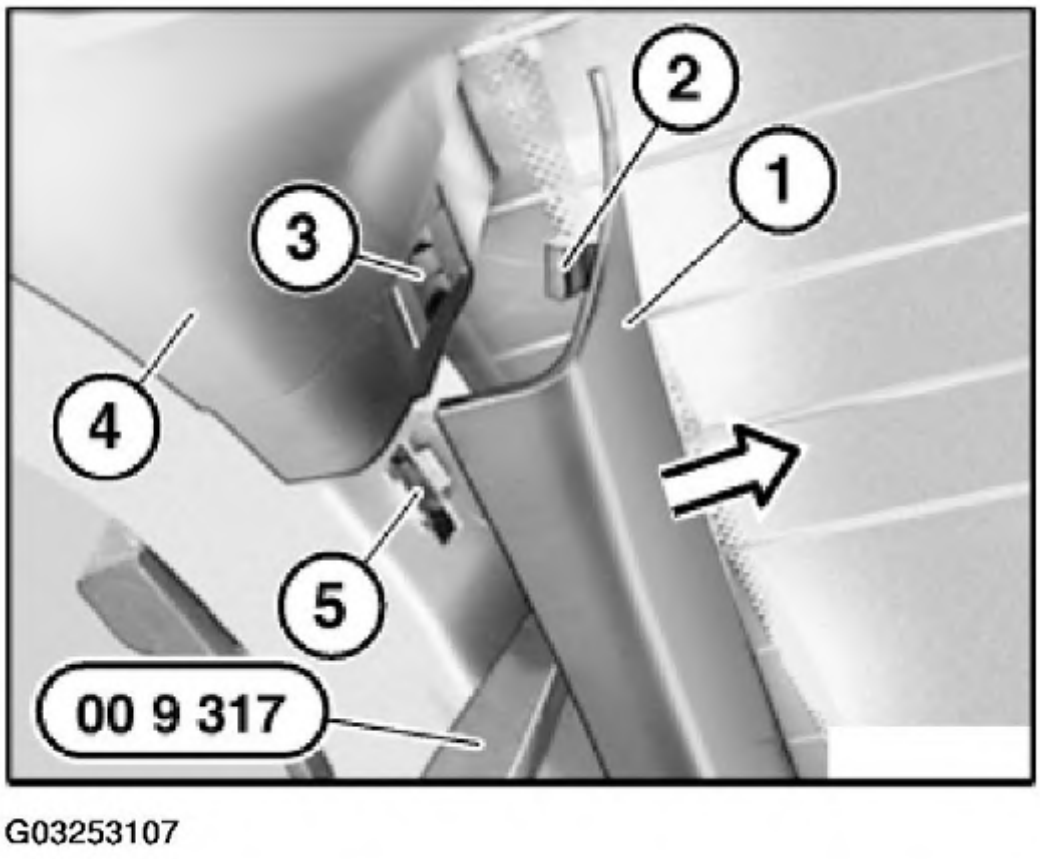


Fig. 445: Checking Retainer
Courtesy of BMW OF NORTH AMERICA, INC.

With special tool 00 9 317, unclip clips (1) in side trim (2).

Feed trim (2) out of swallow-tail guides (3) in upper trim (4) and remove.

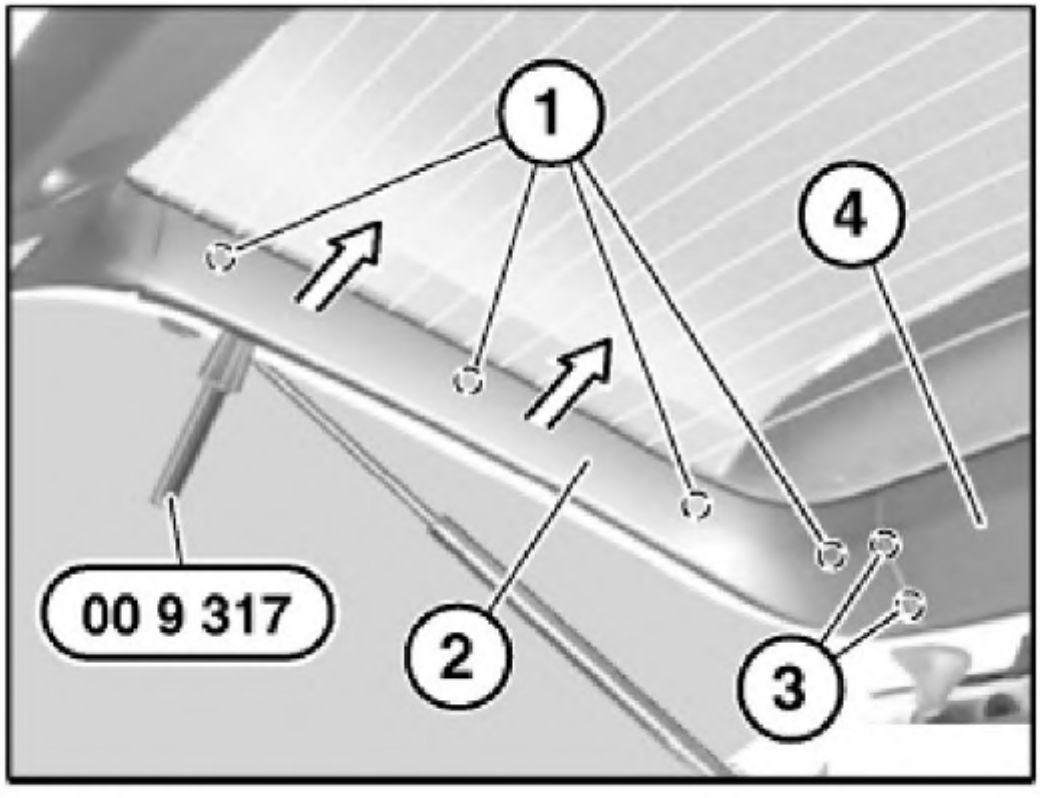
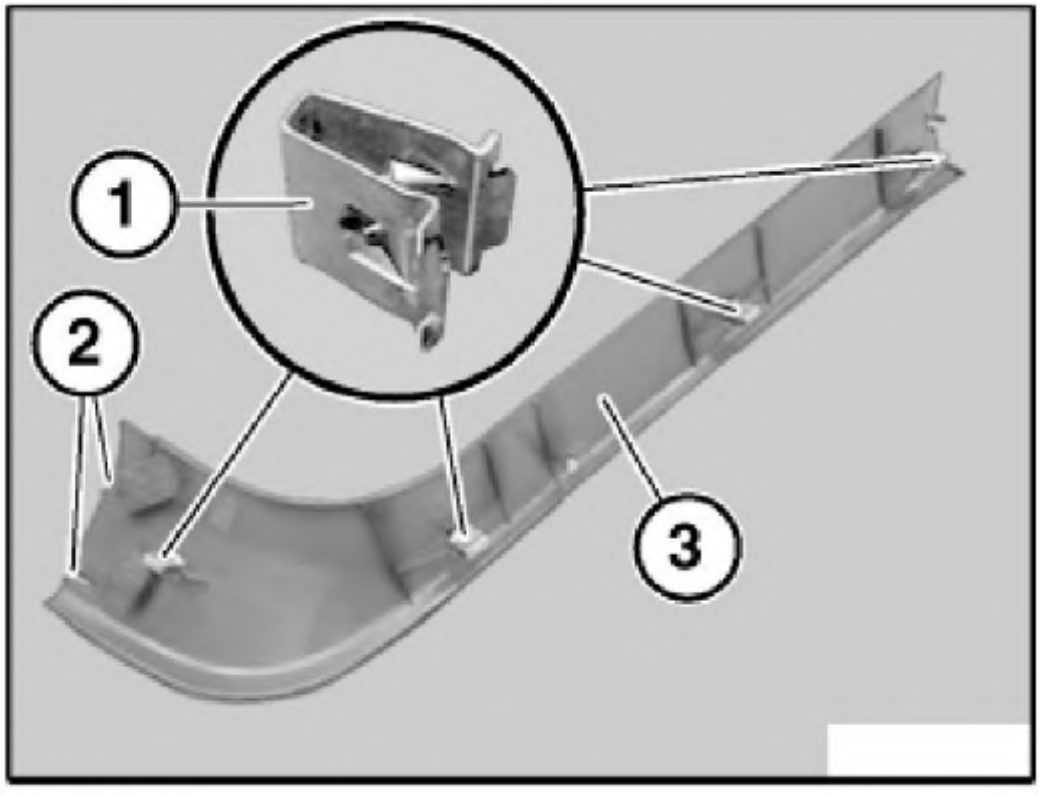


Fig. 446: Feeding Trim Out Of Swallow-Tail Guides In Upper Trim
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

If necessary, detach clips (1) from trim (3) and insert in rear lid.

Mounts (2) must not be damaged.



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Fig. 447: Inserting In Rear Lid
Courtesy of BMW OF NORTH AMERICA, INC.

51 49 056 REMOVING AND INSTALLING/REPLACING UPPER TRIM FOR REAR LID UPPER SECTION

Special Tools Required

- 00 9 317

Removal & Installation

Remove side trim for rear lid upper section. See **51 49 053 Removing And Installing/Replacing Side Trim For Rear Lid Upper Section** .

With special tool 00 9 317, unclip clips (1) in upper trim (4).

Feed trim (4) with swallow-tail guides (2) out of side trim (3).

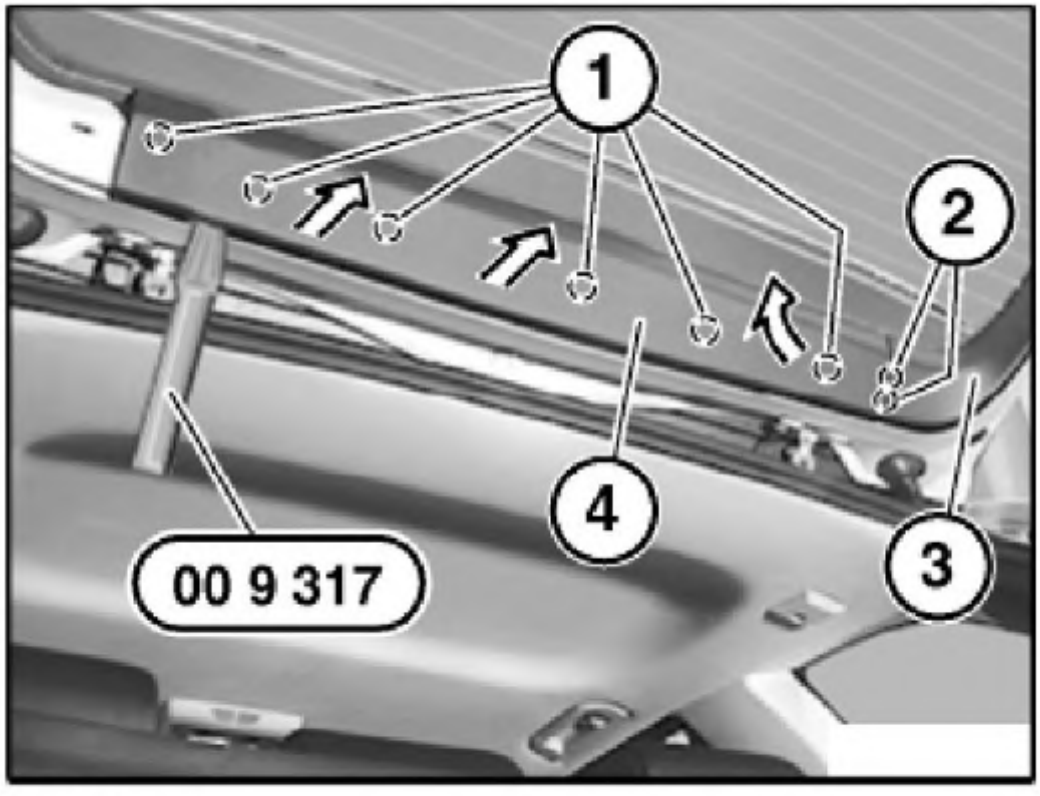
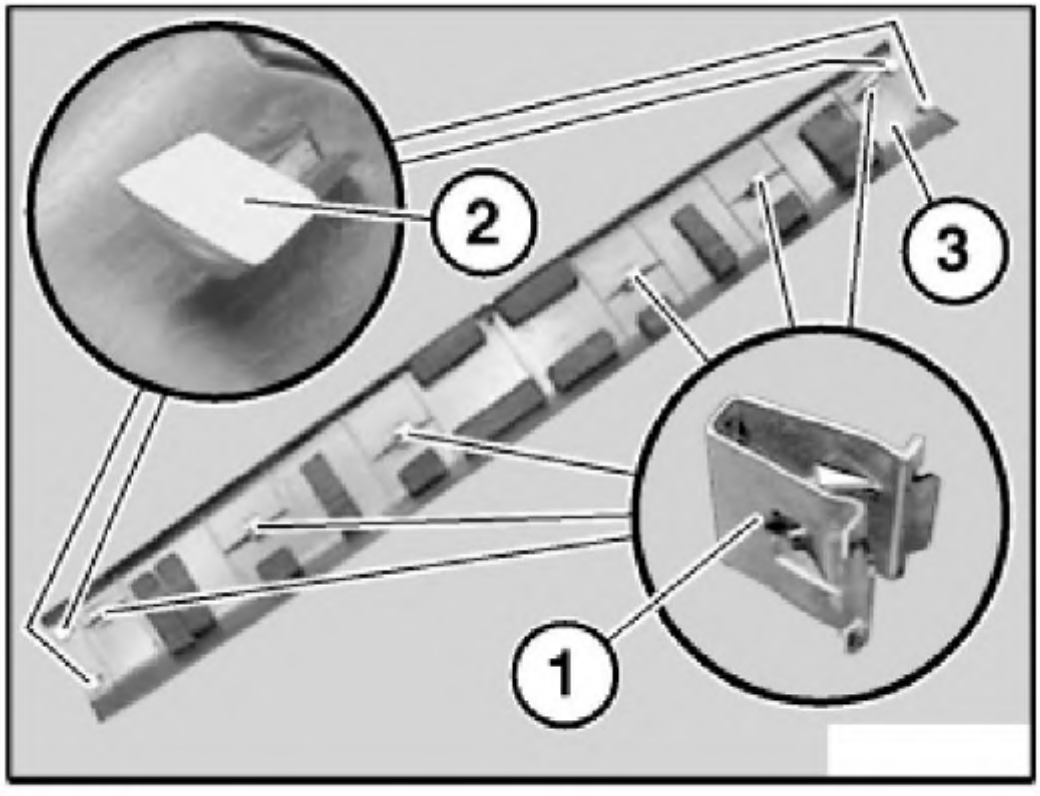


Fig. 448: Uncliping Clips In Upper Trim
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

If necessary, detach clips (1) from trim (3) and insert in rear lid.

Swallow-tail guides (2) must not be damaged.



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Fig. 449: Detaching Clips From Trim
Courtesy of BMW OF NORTH AMERICA, INC.

51 49 060 REMOVING AND INSTALLING/REPLACING ALL TRIMS FOR REAR LID UPPER SECTION

Operation is described in:

Removing both side trims for rear lid upper section. See **51 49 053 Removing And Installing/Replacing Side Trim For Rear Lid Upper Section** .

Removing upper trim for rear lid upper section. See **51 49 056 Removing And Installing/Replacing Upper Trim For Rear Lid Upper Section** .

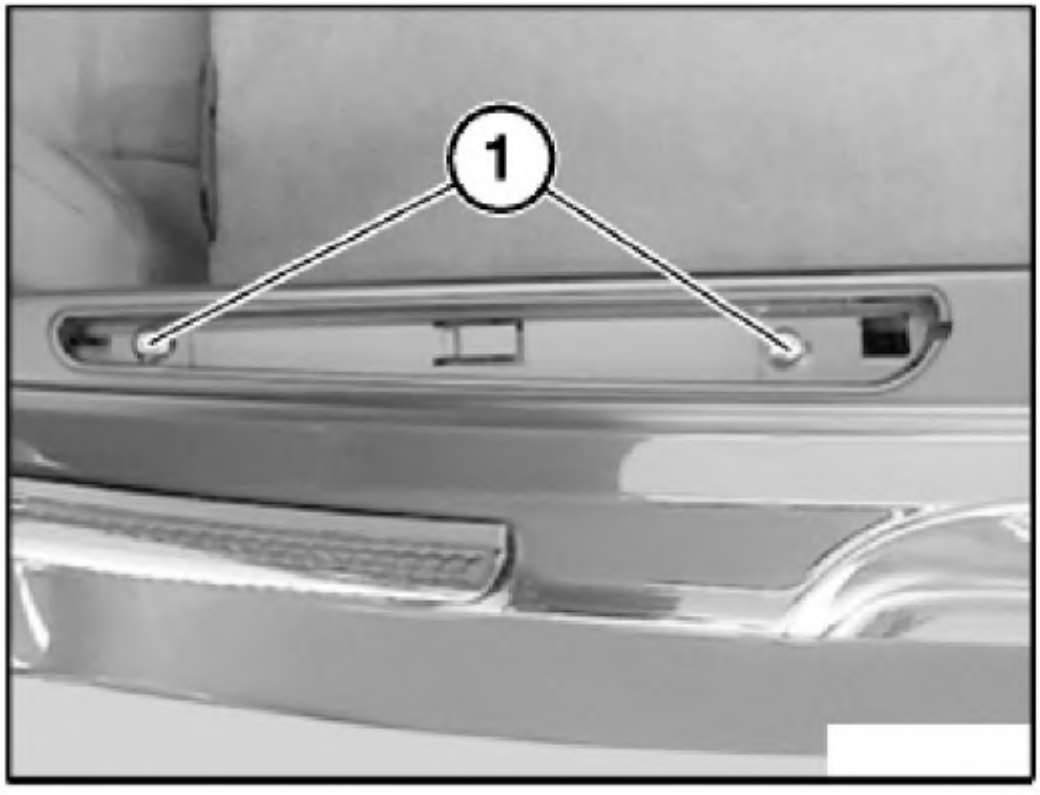
Removing lower trim for rear lid upper section. See **51 49 050 Removing And Installing/Replacing Lower Trim For Rear Lid Upper Section** .

51 49 080 REMOVING AND INSTALLING/REPLACING COVER FOR LOADING SILL (ON REAR

LID LOWER SECTION)

Remove rear reflector (in rear lid lower section). See **63 14 120 REMOVING AND INSTALLING/REPLACING REAR REFLECTOR** .

Release left/right screws (1).

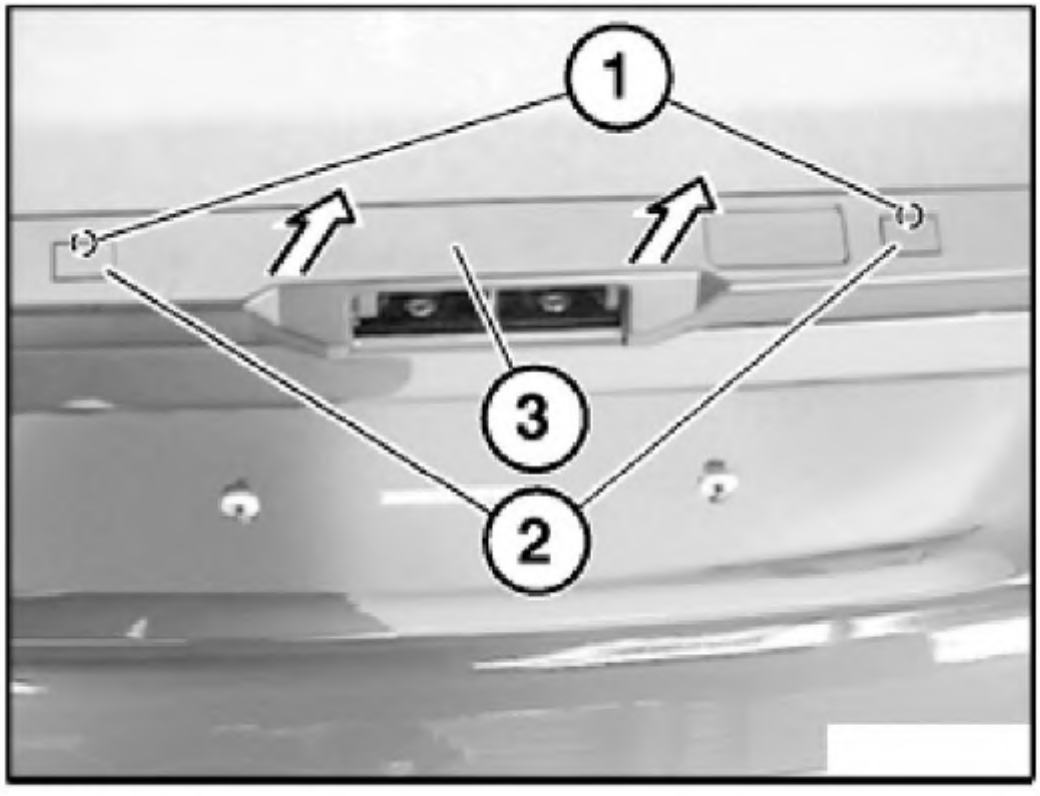


G03253112

Fig. 450: Releasing Left/Right Screws
Courtesy of BMW OF NORTH AMERICA, INC.

Using a small screwdriver, lever out covers (2) by means of chamfers (1) and release screw underneath.

Pull off cover (3) for loading sill.



G03253113

Fig. 451: Pulling Off Cover For Loading Sill
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

If necessary, replace faulty cover (1) for button on cover (2) for loading sill.

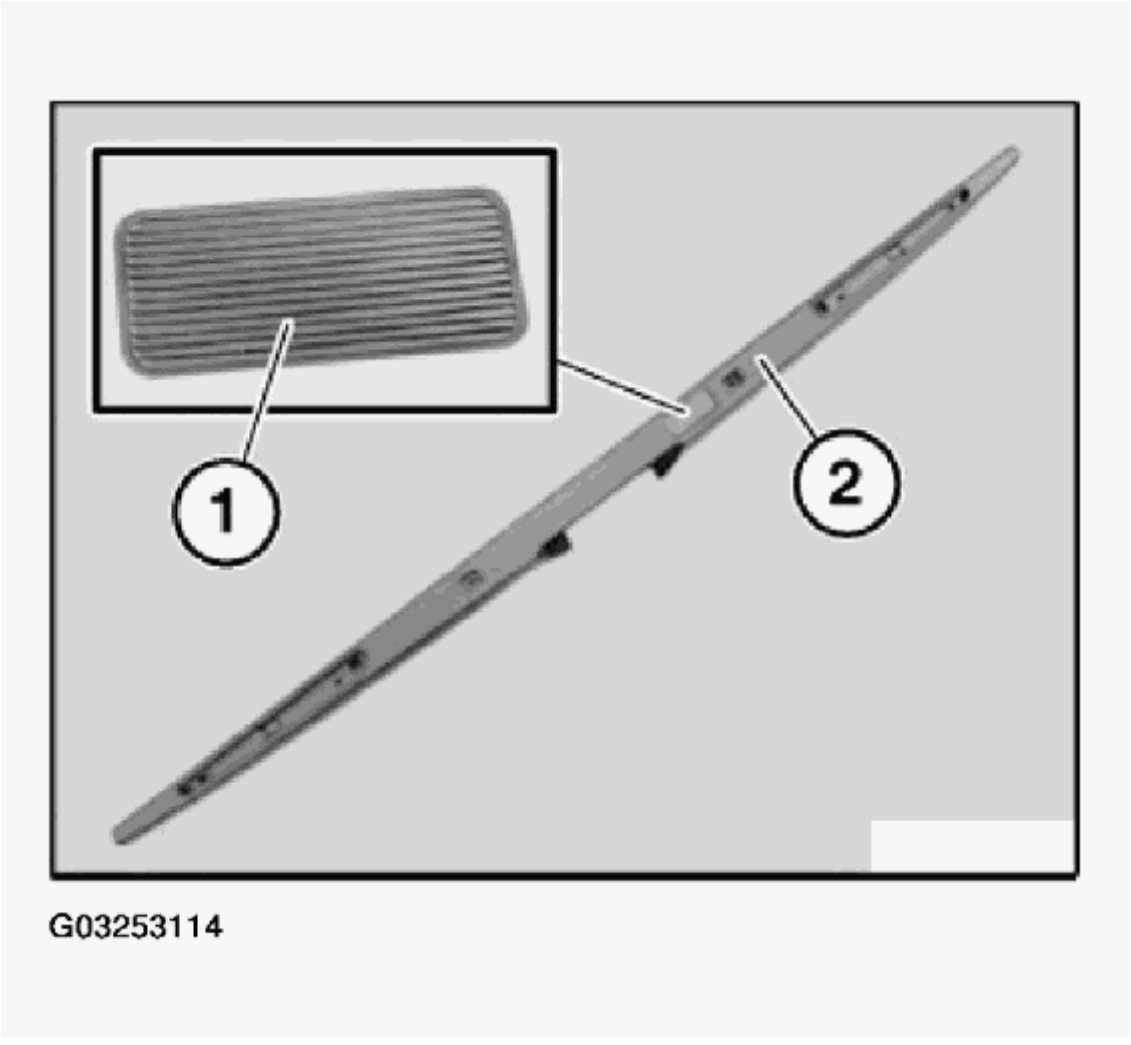
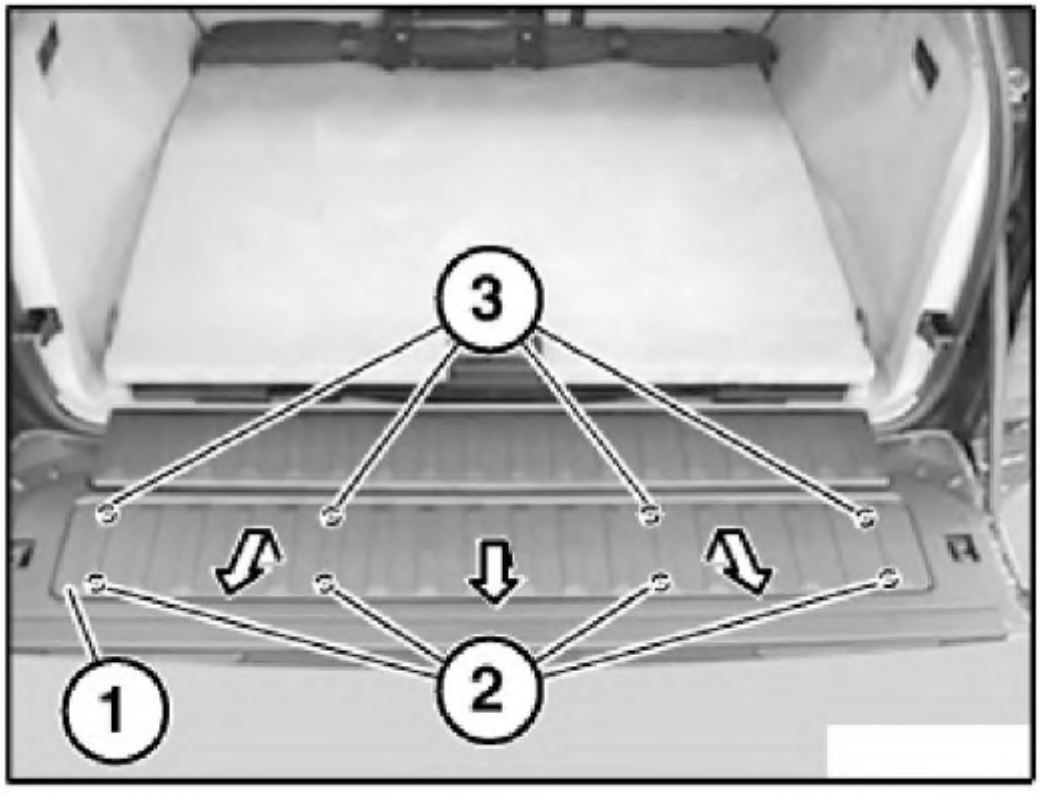


Fig. 452: Checking Cover For Button On Cover For Loading Sill
Courtesy of BMW OF NORTH AMERICA, INC.

51 49 085 REMOVING AND INSTALLING/REPLACING INSERT FOR TRIM ON REAR LID LOWER SECTION

Open rear lid lower section.

Lever rear insert (1) upwards out of retainers (2) and pull towards rear out of guides (3).



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Fig. 453: Pulling Towards Rear Out Of Guides
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Mounts (1) and guides (2) on insert (3) must not be damaged.

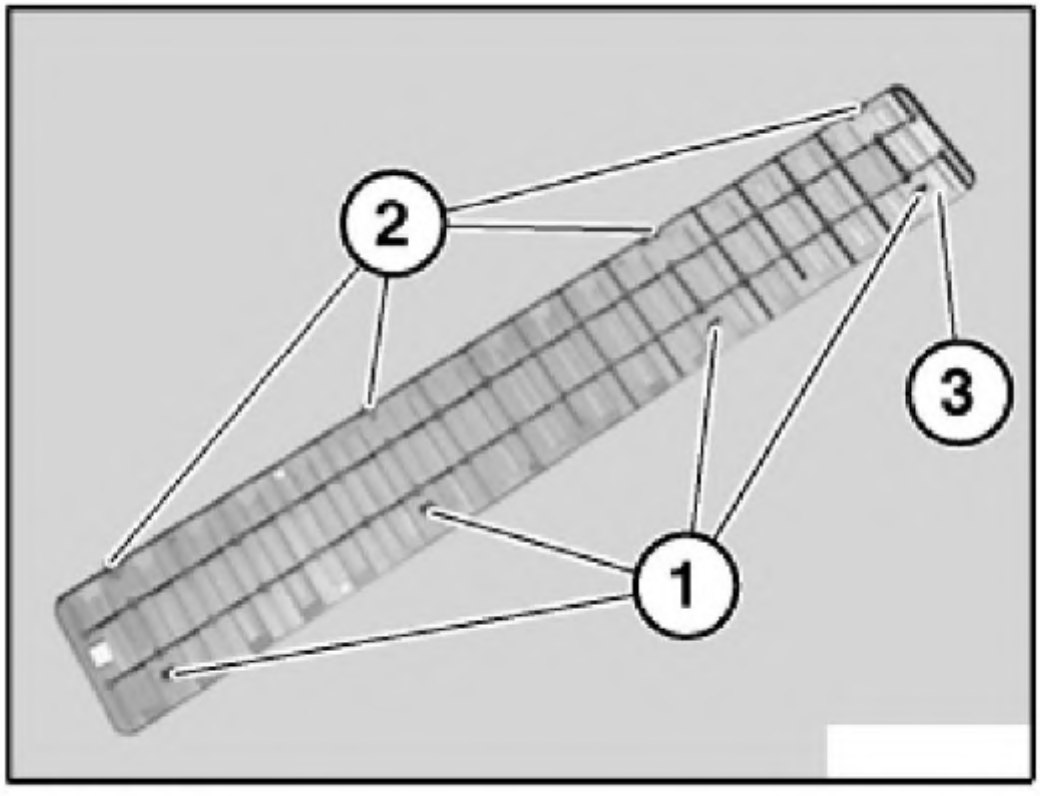
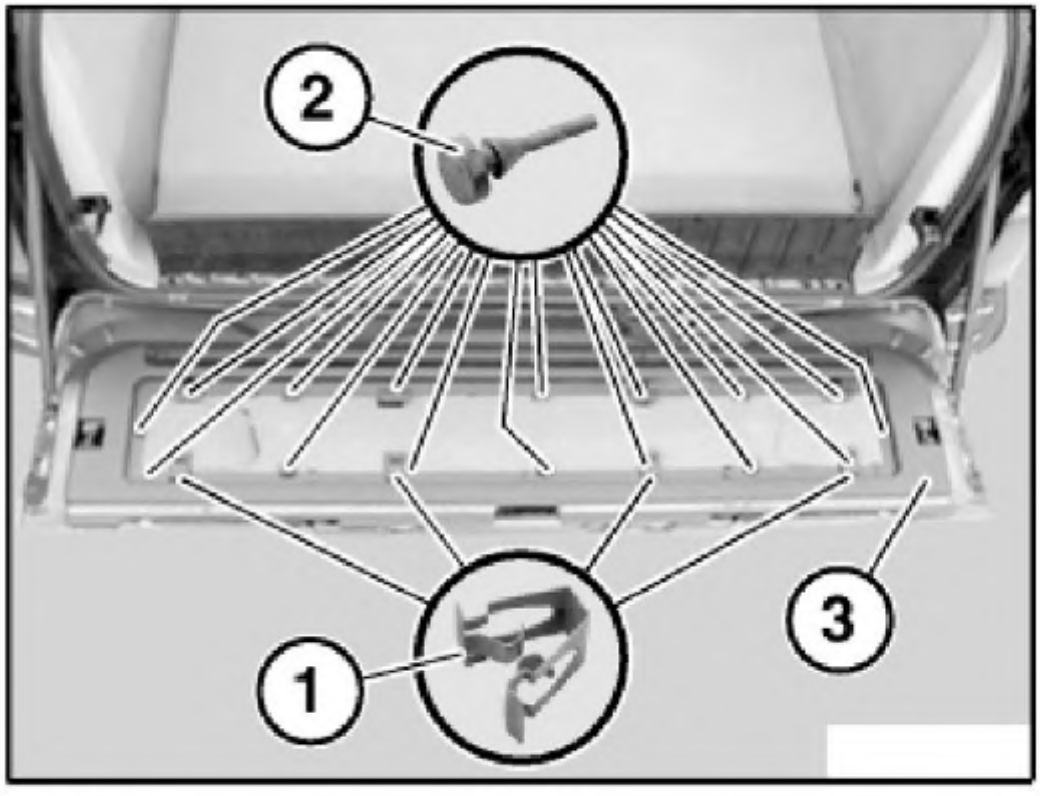


Fig. 454: Checking Mounts And Guides
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

If necessary, replace faulty retainers (1) and rubber parts (2) on rear lid lower section (3).



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Fig. 455: Checking Retainers And Rubber Parts On Rear Lid Lower Section
Courtesy of BMW OF NORTH AMERICA, INC.

51 49 090 REMOVING AND INSTALLING/REPLACING TRIM FOR REAR LID LOWER SECTION

Remove cover for loading sill. See **51 49 080 Removing And Installing/Replacing Cover For Loading Sill (On Rear Lid Lower Section)** .

Remove insert for trim on rear lid lower section. See **51 49 085 Removing And Installing/Replacing Insert For Trim On Rear Lid Lower Section** .

Raise cover (1) and release screws (2).

Release screws (3) and remove trim (4).

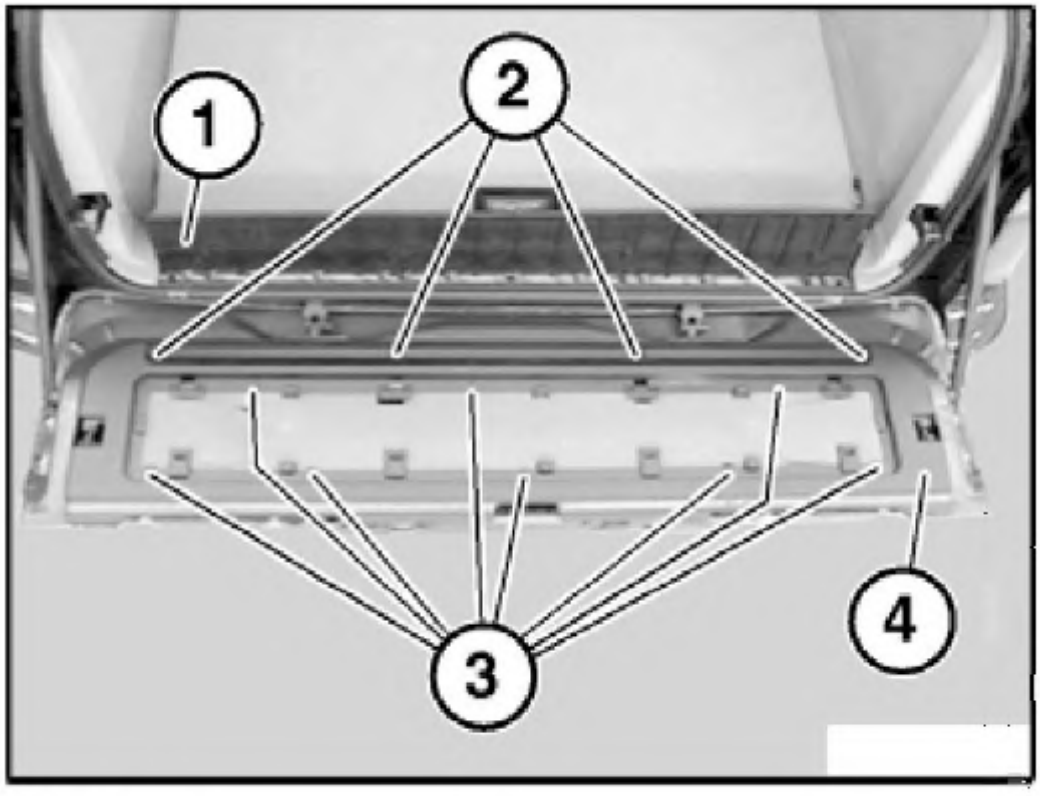
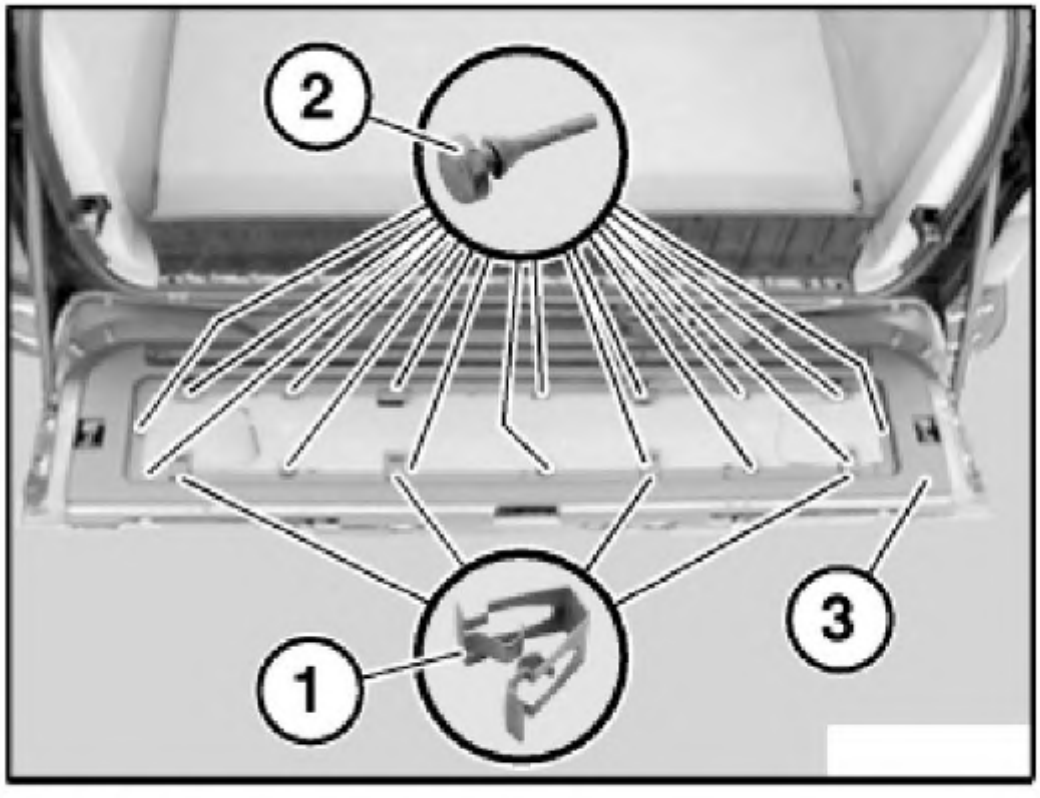


Fig. 456: Removing Trim
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

If necessary, replace faulty retainers (1) and rubber parts (2) on rear lid lower section (3).



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Fig. 457: Checking Retainers And Rubber Parts On Rear Lid Lower Section
Courtesy of BMW OF NORTH AMERICA, INC.

Replacement only:

Remove insulating mat (1) from old trim (2) and insert in new trim.

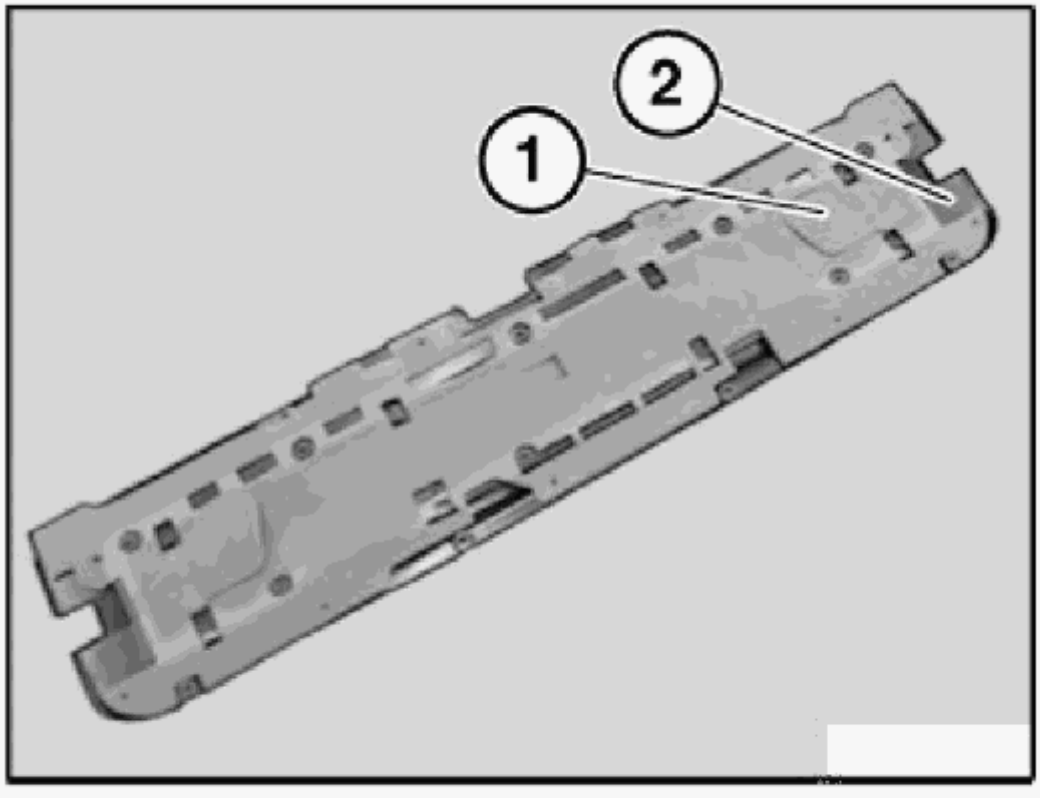


Fig. 458: Removing Insulating Mat From Old Trim
Courtesy of BMW OF NORTH AMERICA, INC.

LOOSE BODY PARTS

51 13 115 REMOVING AND INSTALLING/REPLACING COWL PANEL COVER

Remove both windshield wiper arms. See **61 61 081 REPLACING LEFT OR RIGHT WINDSHIELD WIPER ARMS** .

Detach seals (1).

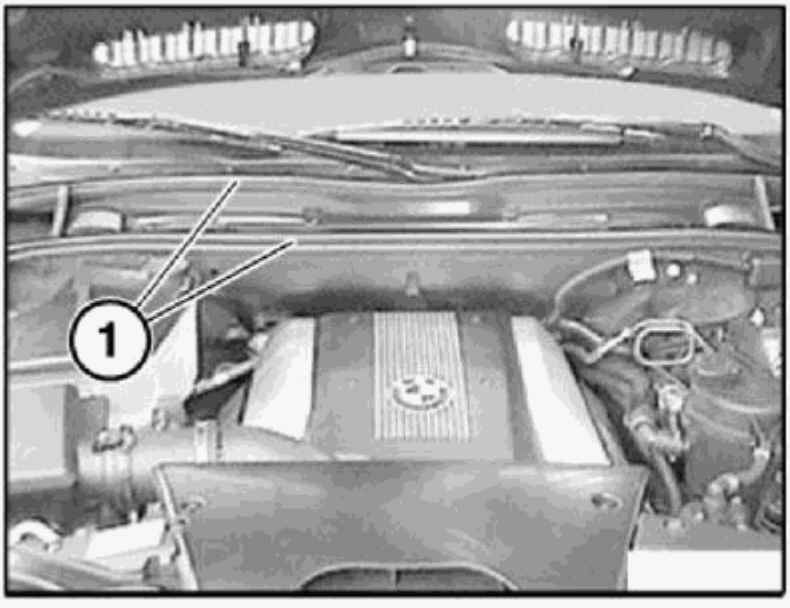


Fig. 459: Detaching Seals
Courtesy of BMW OF NORTH AMERICA, INC.

Turn tommy bar through 90° and lift off cover.

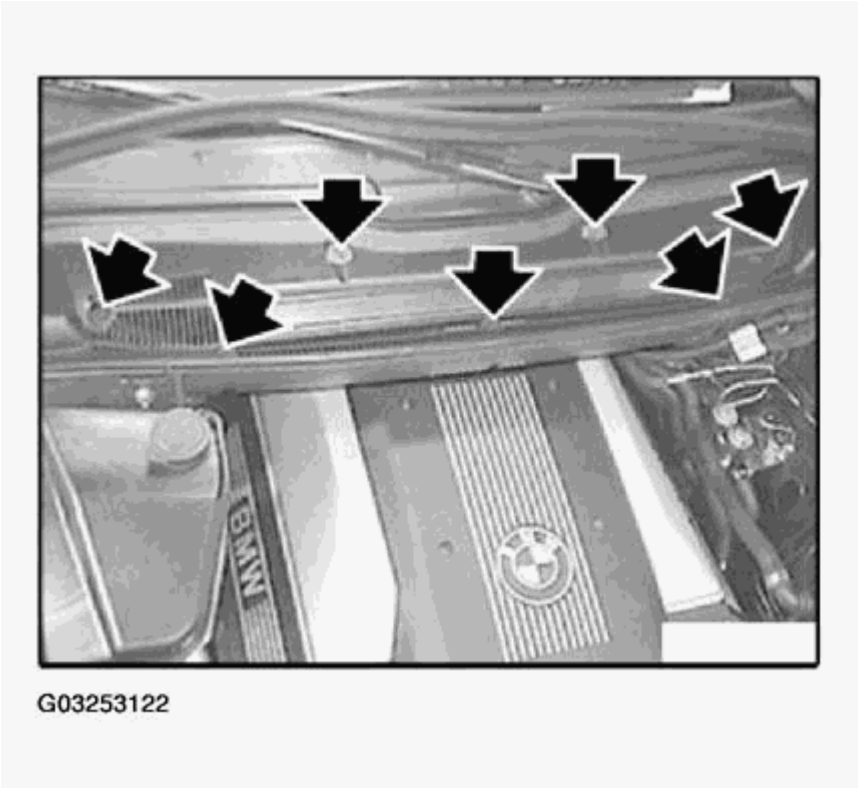


Fig. 460: Turning Tommy Bar
Courtesy of BMW OF NORTH AMERICA, INC.

Release expansion rivets (1).

Remove cover (2) for cowl panel.

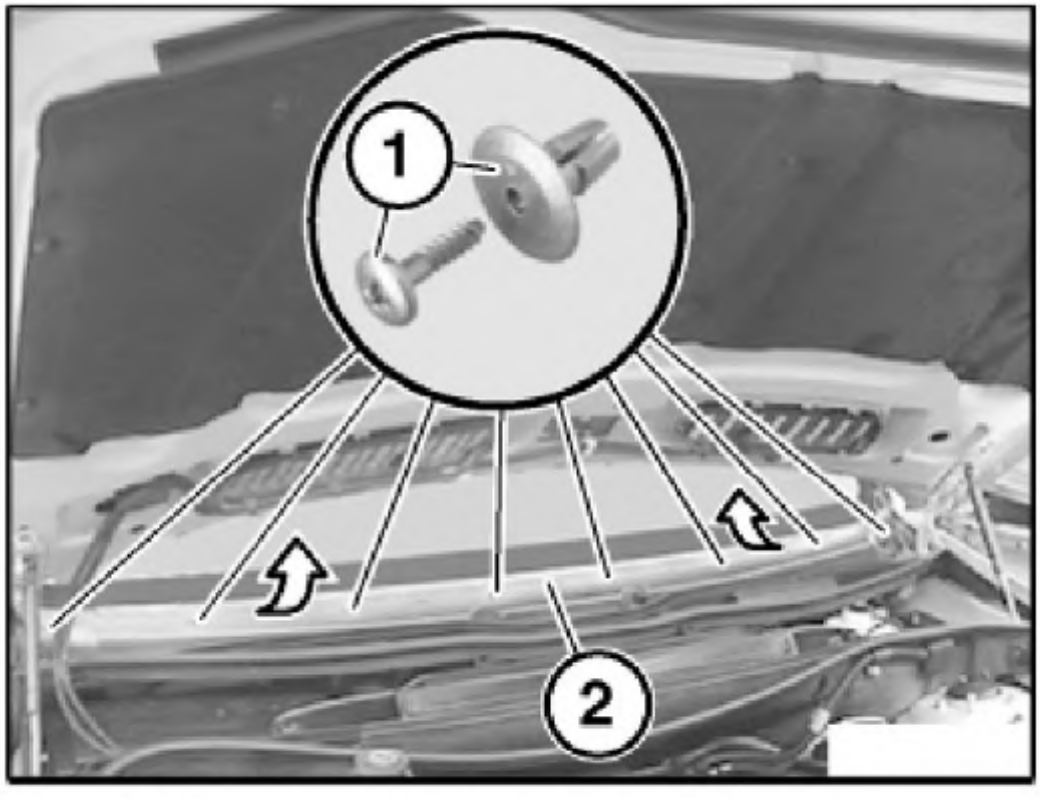


Fig. 461: Releasing Expansion Rivets
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

If necessary, replace defective grommets (1).

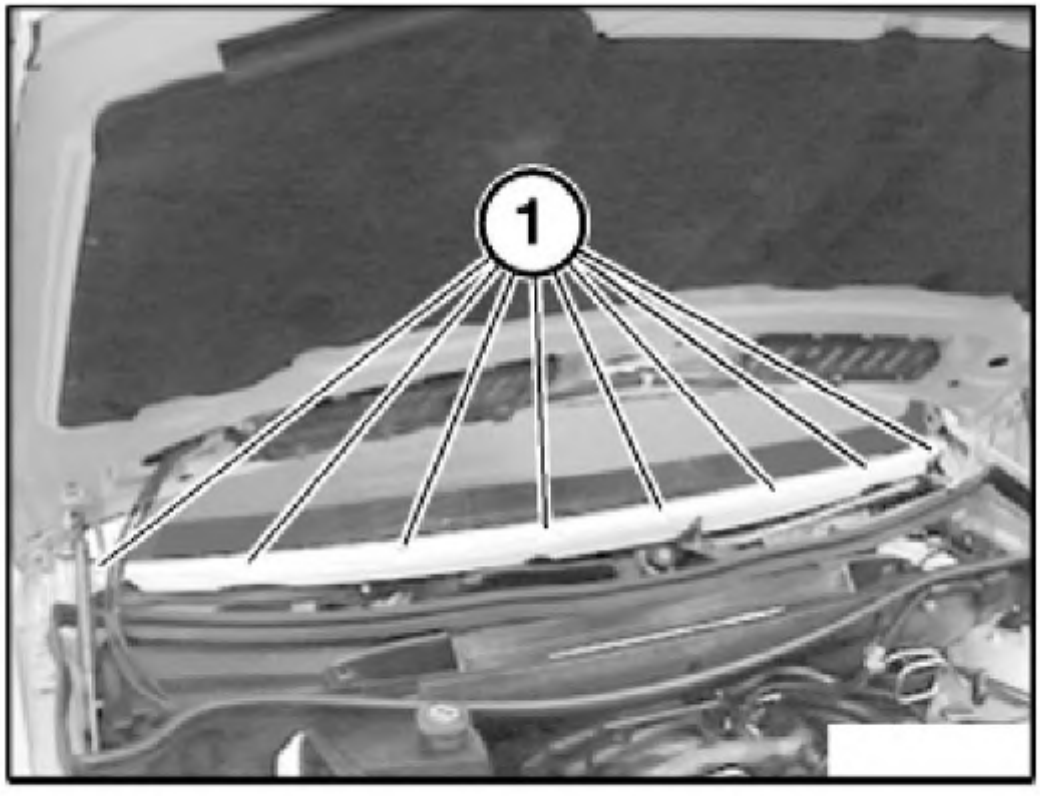


Fig. 462: Checking Grommets
Courtesy of BMW OF NORTH AMERICA, INC.

Only replacement:

If necessary, detach seals (1) from cover (2).

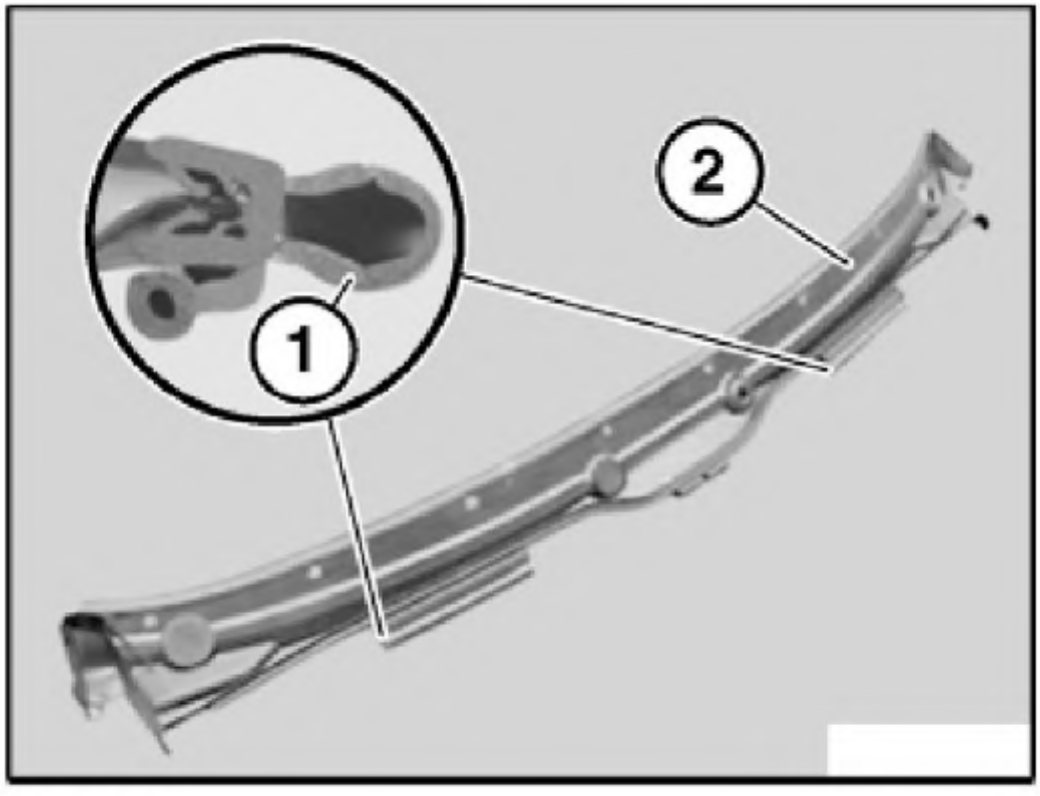


Fig. 463: Detaching Seals From Cover
Courtesy of BMW OF NORTH AMERICA, INC.

51 71 080 REMOVING AND INSTALLING/REPLACING HEATER BULKHEAD

Detach sealing strips (1).



Fig. 464: Detaching Sealing Strips
Courtesy of BMW OF NORTH AMERICA, INC.

Turn toggles through approx. 90°.

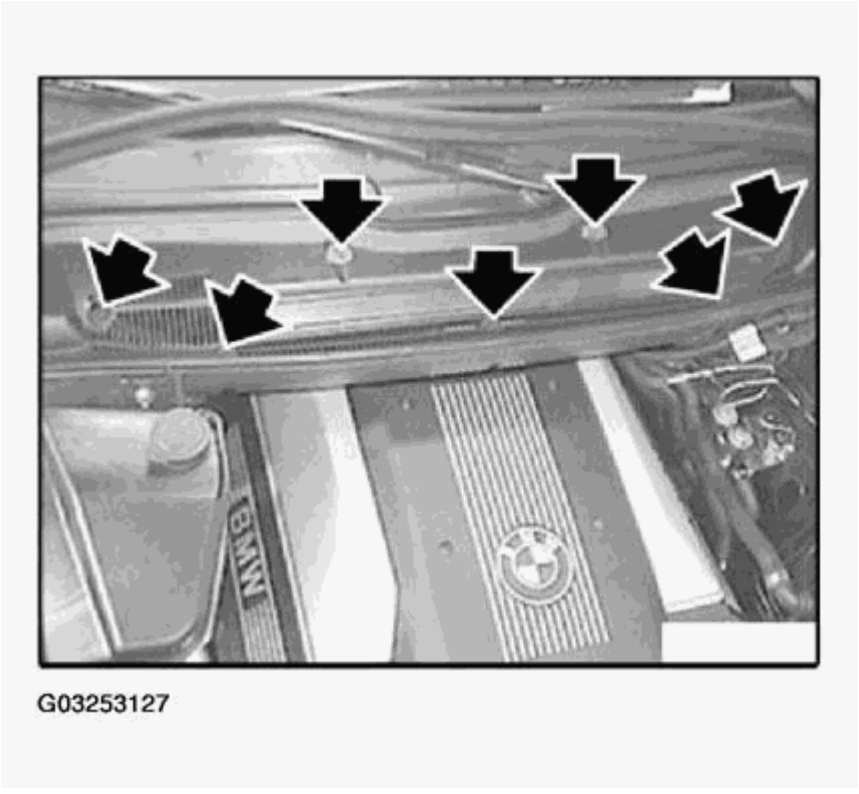


Fig. 465: Turning Toggles
Courtesy of BMW OF NORTH AMERICA, INC.

Lift out cover (1).

Unfasten screws.

Pull out heater bulkhead (2).

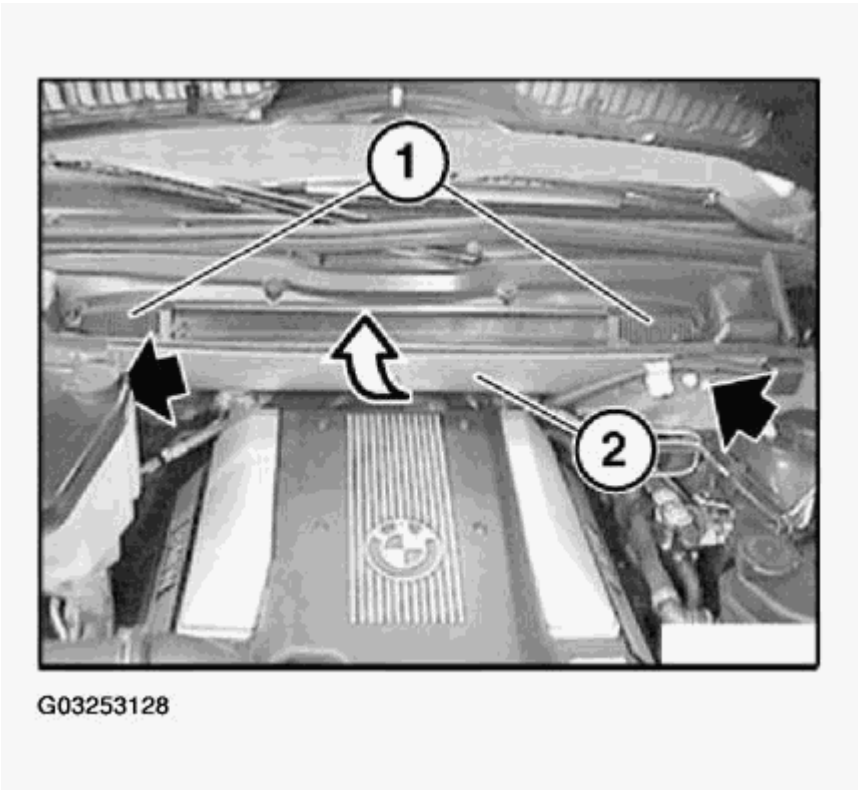


Fig. 466: Lifting Out Cover
Courtesy of BMW OF NORTH AMERICA, INC.

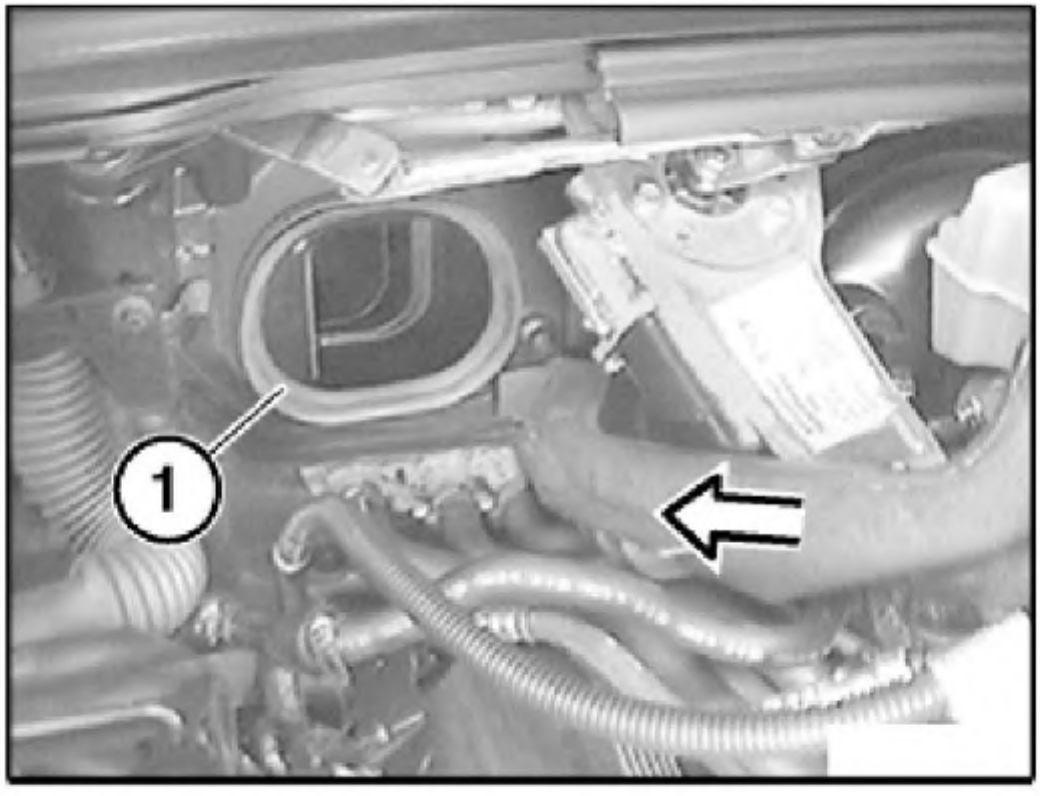
Installation:

Check rubber seals (1) on left and right and replace if necessary.

Coat rubber seals (1) on left and right with rubber protection coating agent.

Heater bulkhead is guided at sides via guide channels.

Clean guide channels and coat with rubber protection coating agent.



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Fig. 467: Checking Rubber Seals On Left
Courtesy of BMW OF NORTH AMERICA, INC.

51 71 378 REMOVING AND INSTALLING/REPLACING UNDERRIDE PROTECTION

Necessary preliminary tasks:

- Remove front bumper trim. See **51 11 157 Replacing Front Bumper Trim** .
- Remove front underbody protection. See **51 47 490 Removing And Installing/Replacing Front Assembly Underside Protection** .

NOTE: The operation is described on the left side; proceed in the same way for the right side.

Version up to 10/03:

Lever out catches (1) and detach brake air duct (2).

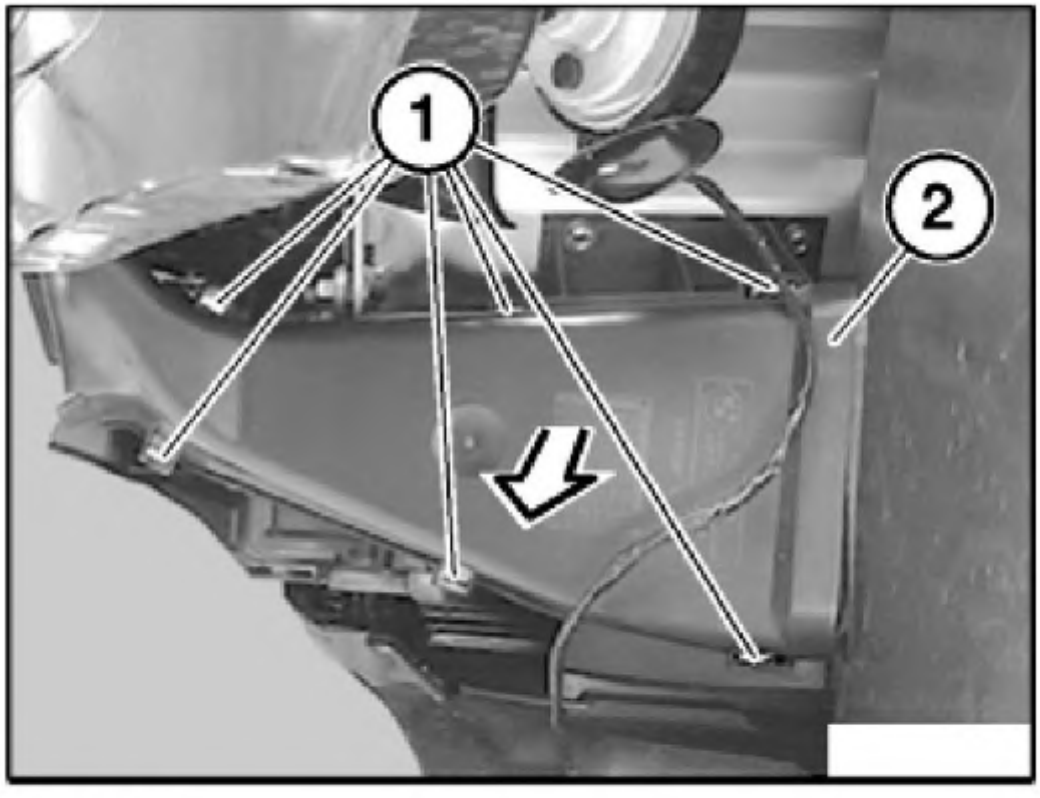


Fig. 468: Detaching Brake Air Duct
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Fixtures (1) on brake air duct (2) must not be damaged.

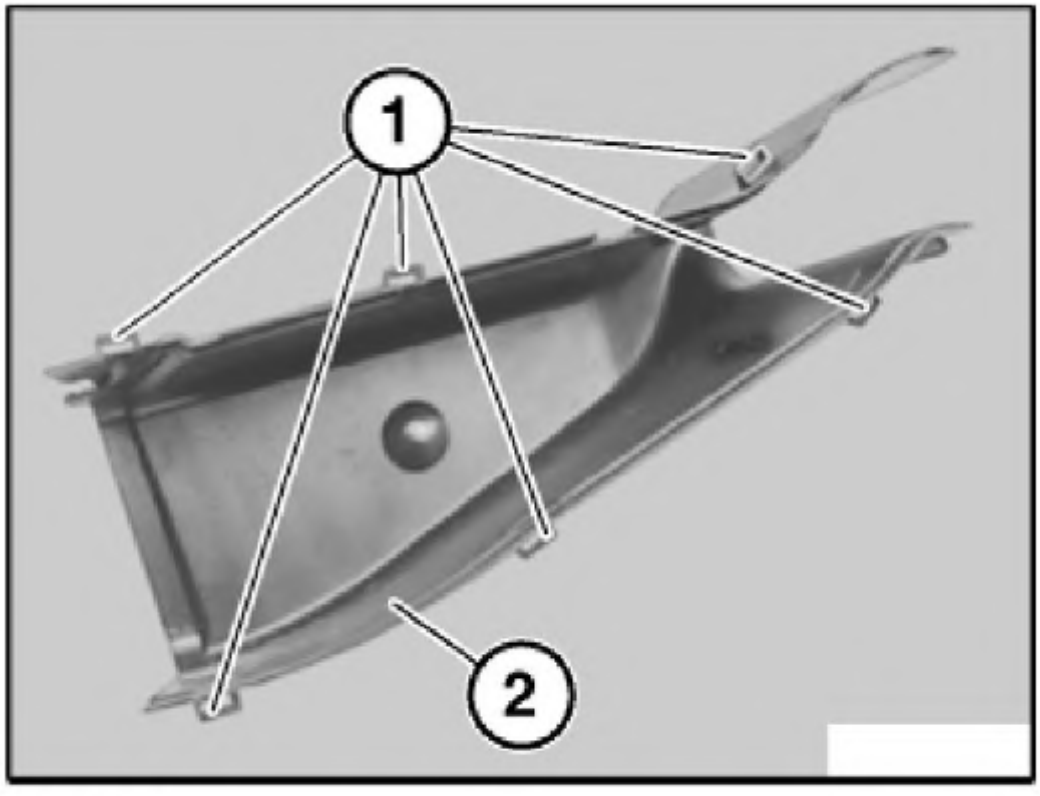


Fig. 469: Checking Fixtures On Brake Air Duct
Courtesy of BMW OF NORTH AMERICA, INC.

Build date from 10/03:

Release expansion rivet (1).

Lever out catches (2) and detach brake air duct (3).

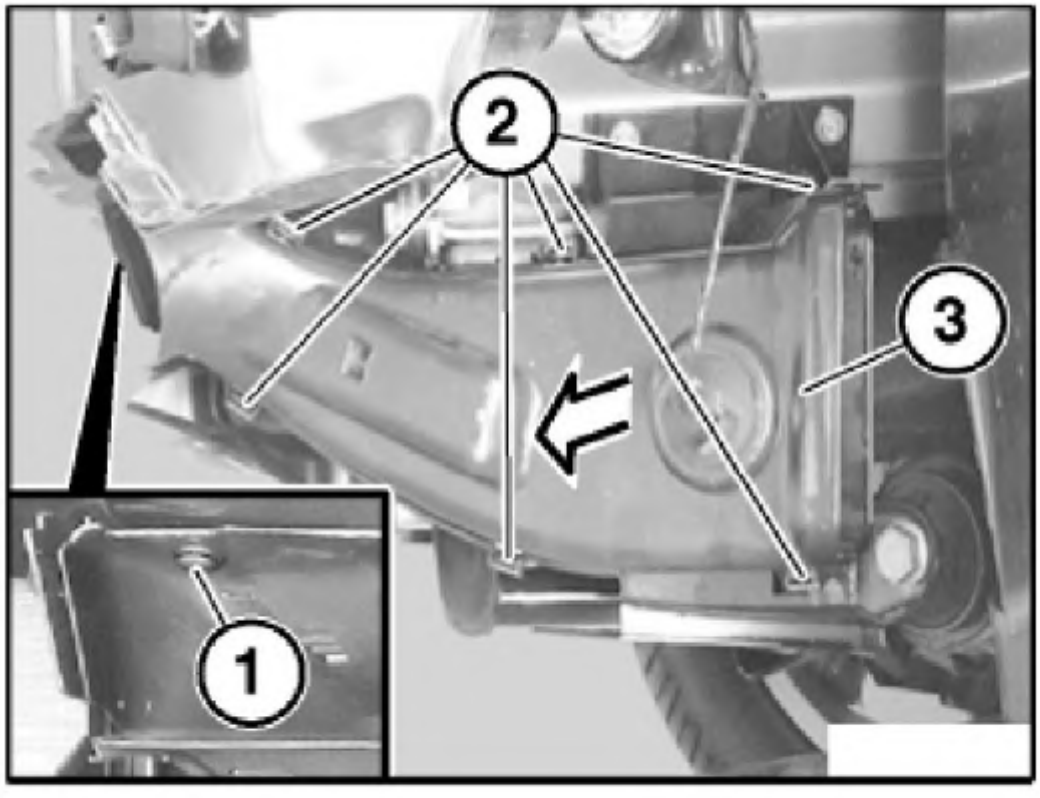


Fig. 470: Releasing Expansion Rivet
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Fixtures (4) on brake air duct (5) must not be damaged.

Left only:

Lever temperature sensor (1) out of fixture (2).

Pull temperature sensor (1) with cable grommet (3) out of brake air duct (5).

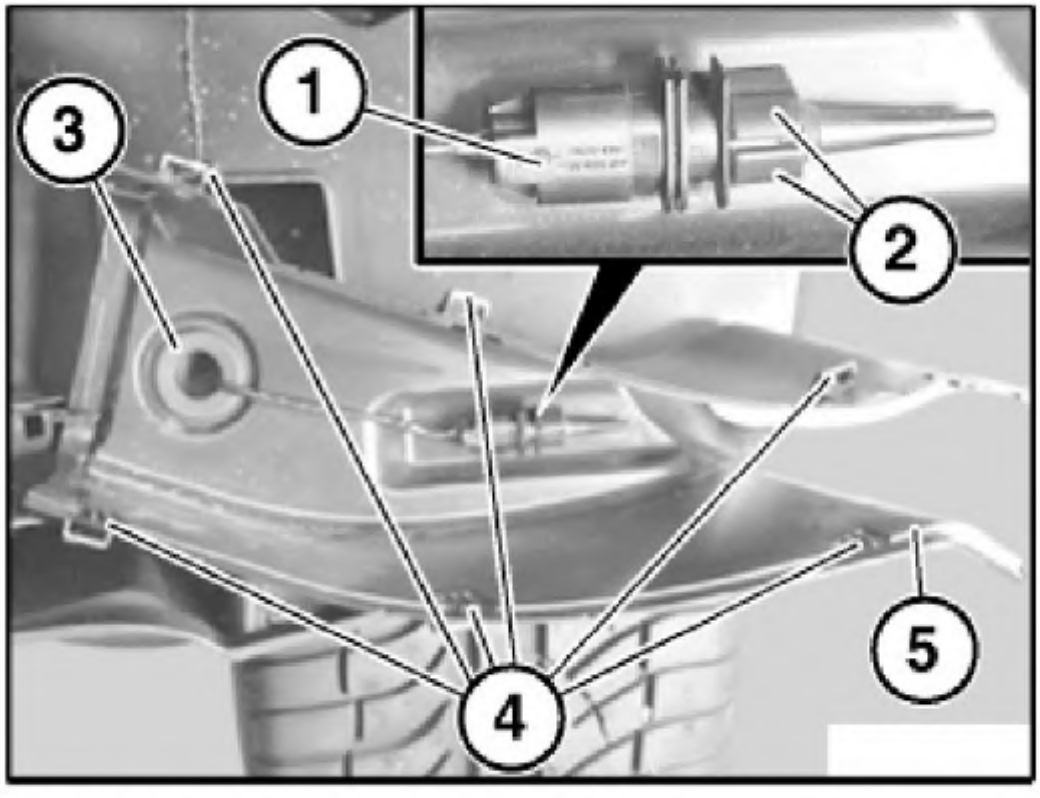


Fig. 471: Pulling Temperature Sensor
Courtesy of BMW OF NORTH AMERICA, INC.

All build versions:

Installation:

Catches (1) on brake air duct (2) must not be damaged.

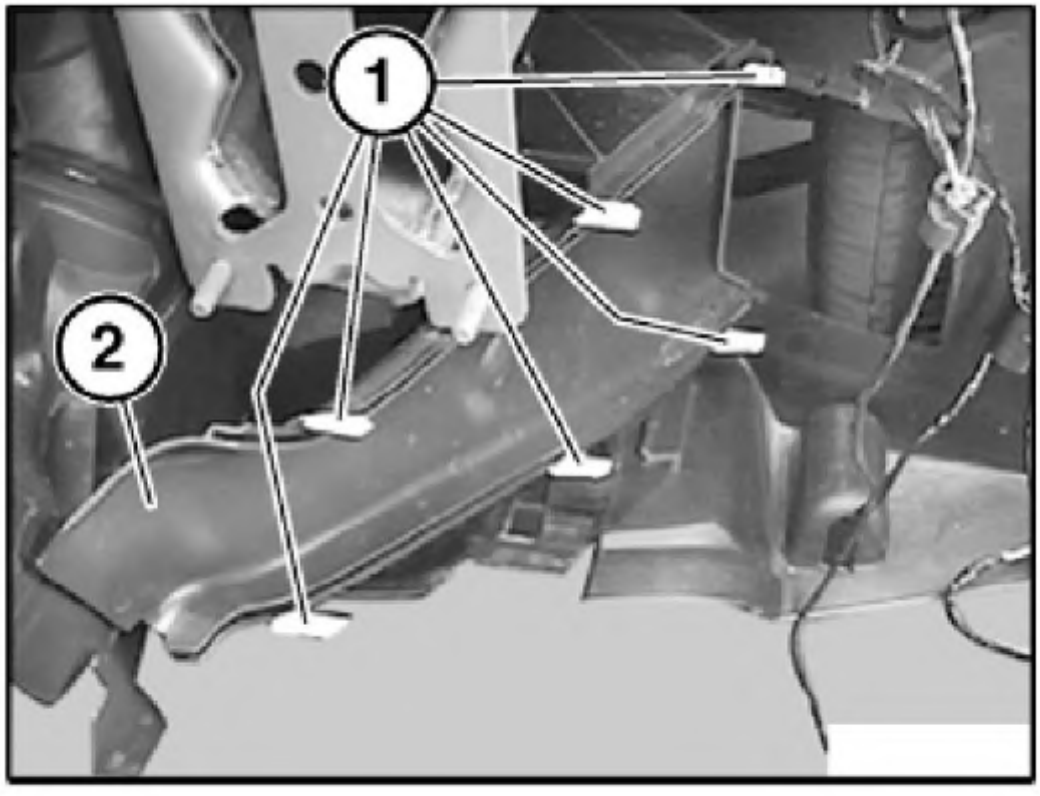


Fig. 472: Checking Catches On Brake Air Duct
Courtesy of BMW OF NORTH AMERICA, INC.

Release nuts (1) and remove underride protection (2) in direction of arrow.

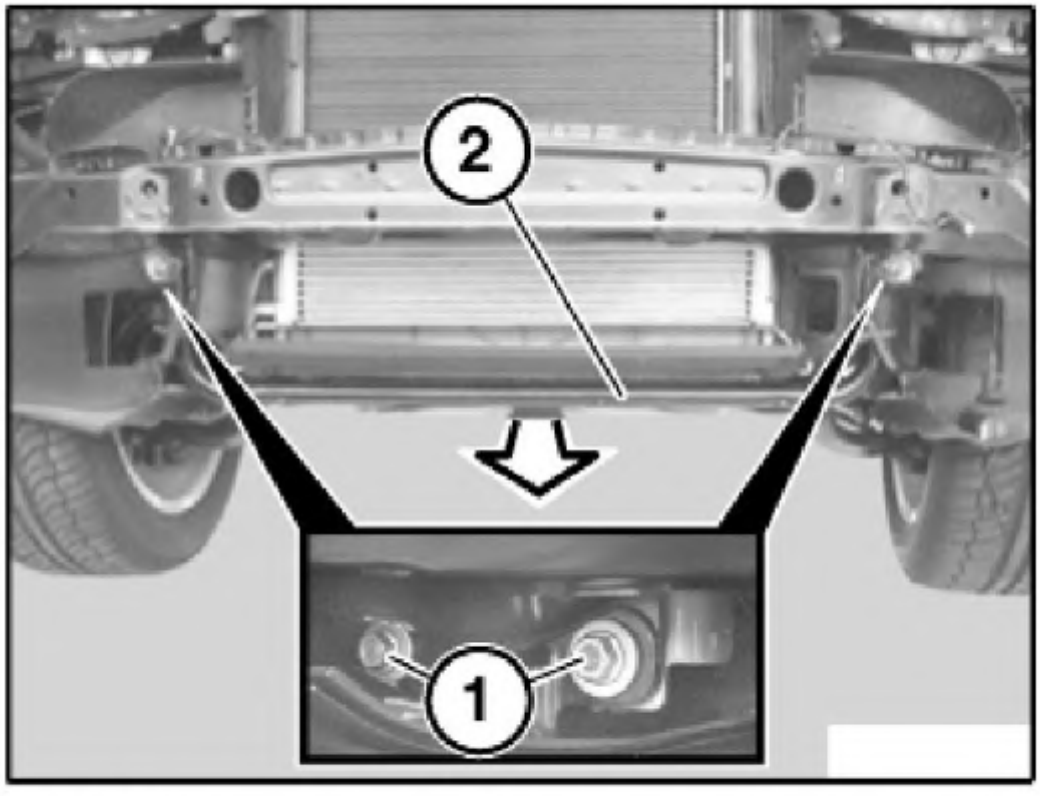


Fig. 473: Removing Underride Protection
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Nuts (1) on underride protection (2) must not be damaged.

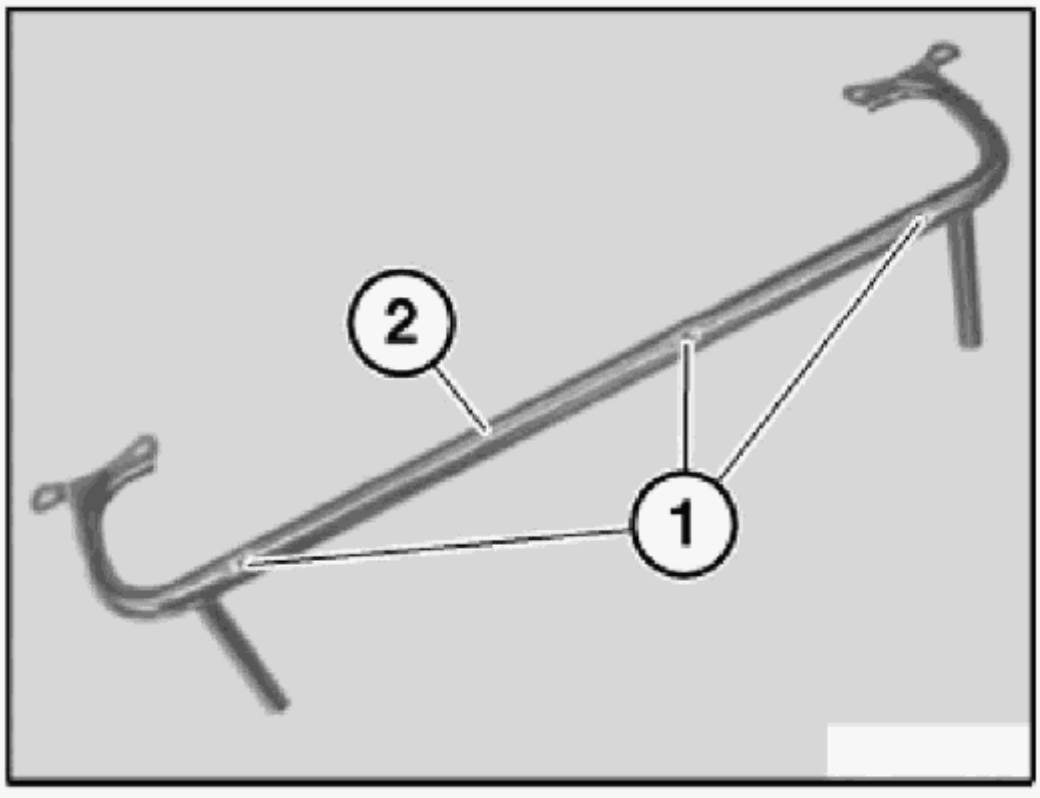


Fig. 474: Checking Nuts On Underride Protection
Courtesy of BMW OF NORTH AMERICA, INC.

51 71 407 REPLACING REAR SPOILER

Operation is identical to:

Removing And Installing Rear Spoiler .

51 71 412 REMOVING AND INSTALLING REAR SPOILER

Lever out covers (1) on left/right and release screw underneath.

Release screws (2) on left/right and screw (3).

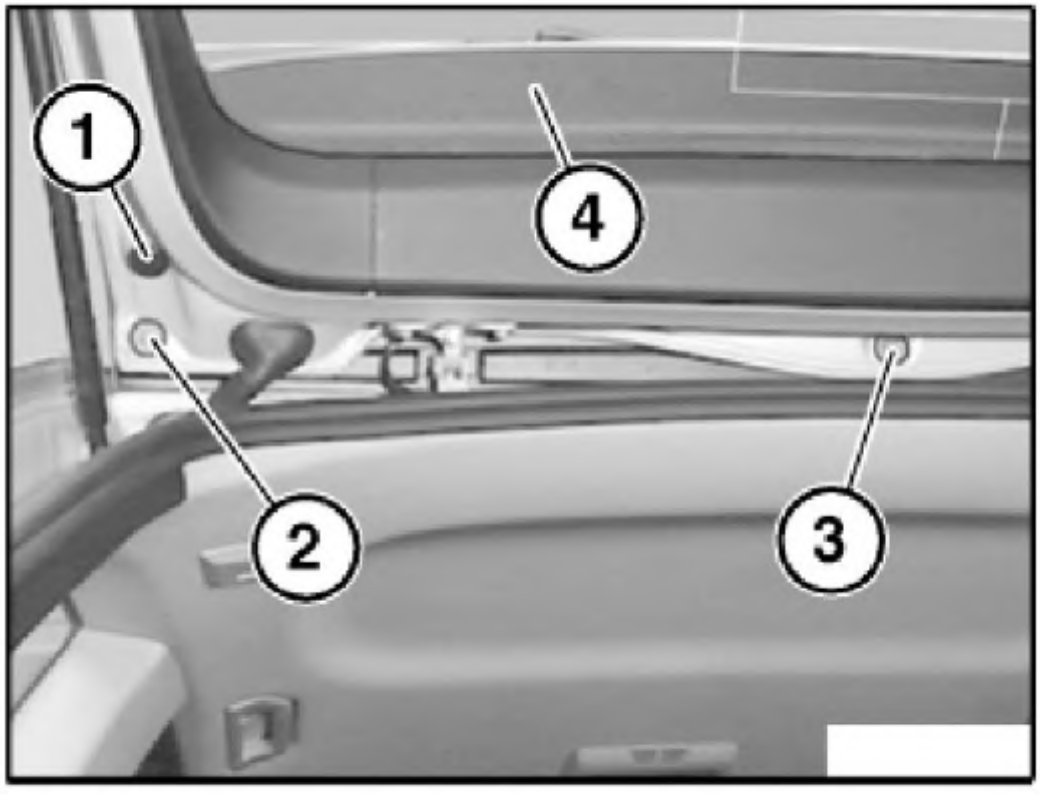
Remove rear spoiler and set down on a clean surface.

Installation:

If necessary, make a note of number of shims on screws (2) and (3) and refit them during installation at same position.

Tighten screw (3) first.

Tightening torque, see 51 71 2AZ in **BODY EQUIPMENT - TIGHTENING TORQUES** .



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Fig. 475: Releasing Screws On Left/Right
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Threads (1) on rear spoiler (3) must not be damaged.

If necessary, replace faulty tapes (2) (dual-lock tape).

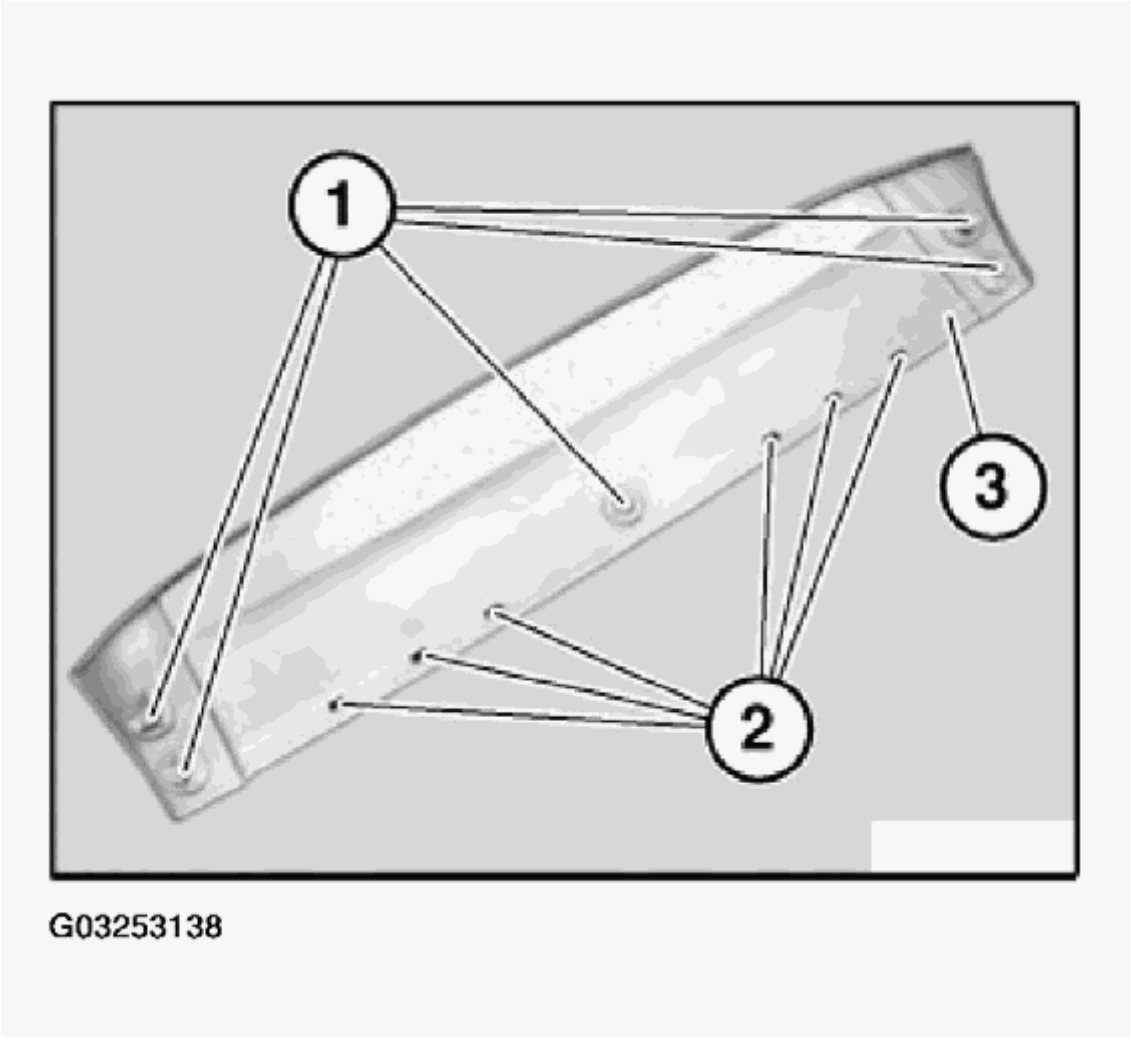


Fig. 476: Checking Threads On Rear Spoiler
Courtesy of BMW OF NORTH AMERICA, INC.

51 71 415 REMOVING AND INSTALLING REAR SPOILER LOWER SECTION

Necessary preliminary tasks:

- Remove rear spoiler. See **51 71 412 Removing And Installing Rear Spoiler** .
- Disconnect plug connection for antenna (AM pickup)

Disconnect plug connection (1) for auxiliary brake light and expose lead.

Detach water hose (2) from jet nozzle and expose.

Release nuts (3) and remove rear spoiler lower section (4).

Installation:

Fit attachment parts.

Tightening torque, see 51 71 2AZ in **BODY EQUIPMENT - TIGHTENING TORQUES** .

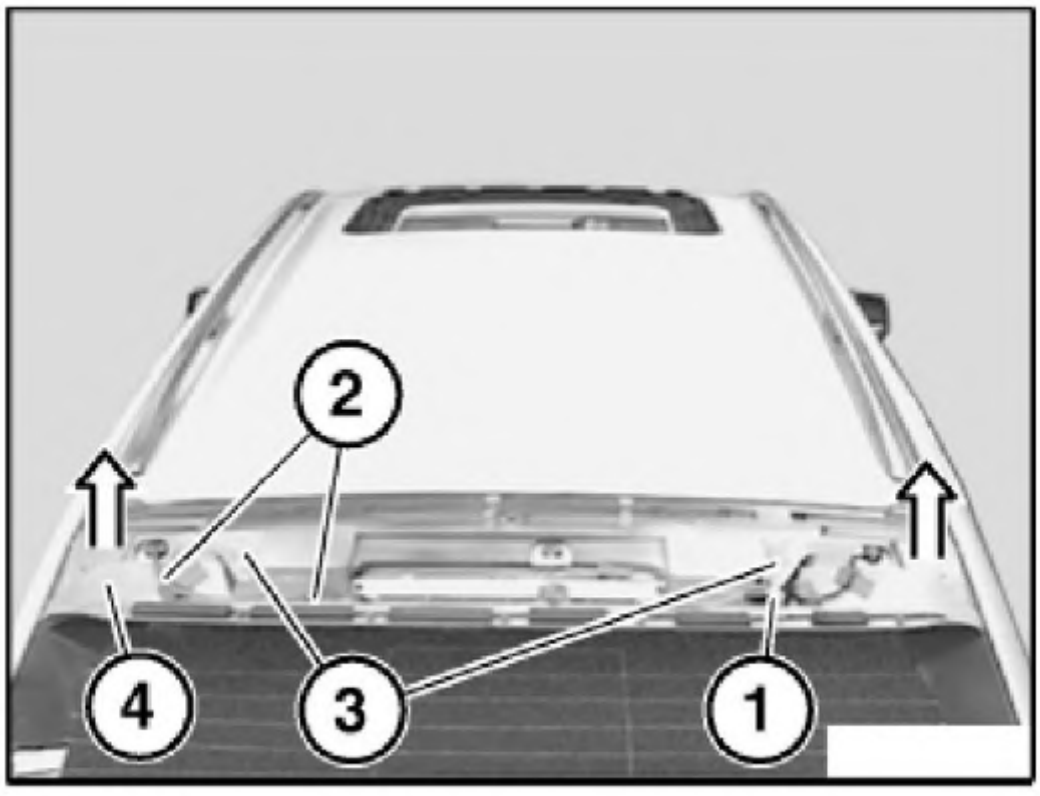


Fig. 477: Disconnecting Plug Connection
Courtesy of BMW OF NORTH AMERICA, INC.

51 71 417 REPLACING REAR SPOILER LOWER SECTION

Necessary preliminary tasks:

- Remove rear spoiler lower section. See **51 71 415 Removing And Installing Rear Spoiler Lower Section** .
- Remove antenna (AM pickup). See **65 24 100 REMOVING AND INSTALLING/REPLACING ANTENNA** .
- Remove additional brake light. See **63 25 000 REMOVING AND INSTALLING/REPLACING A** .

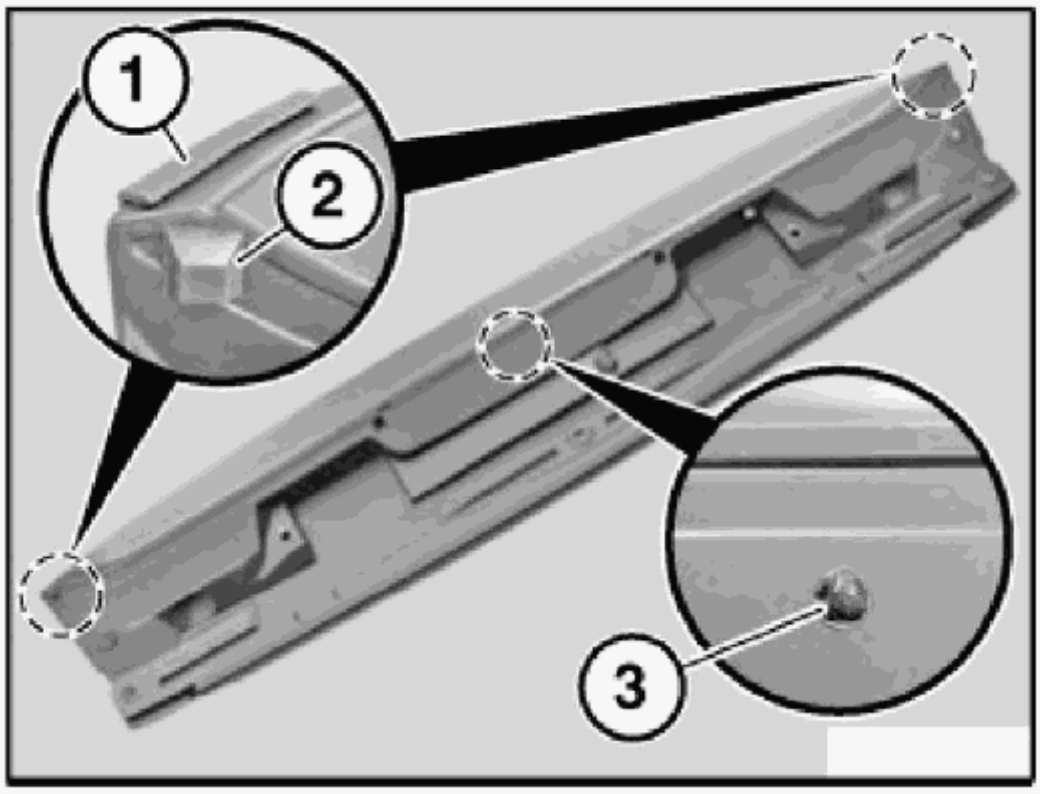
Attachment Parts On Underside Of Rear Spoiler Lower Section:

Attach muckets (1) on left/right.

Stick on buffers (2) on left/right.

Stick on stop buffer (3) in middle.

1. Mucket 45 mm long
2. Buffer 5.8 mm high
3. Stop buffer 2.2 mm high



1 Mucket 45 mm long

2 Buffer 5.8 mm high

3 Stop buffer 2.2 mm high

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Fig. 478: Attaching Muckets On Left/Right
Courtesy of BMW OF NORTH AMERICA, INC.

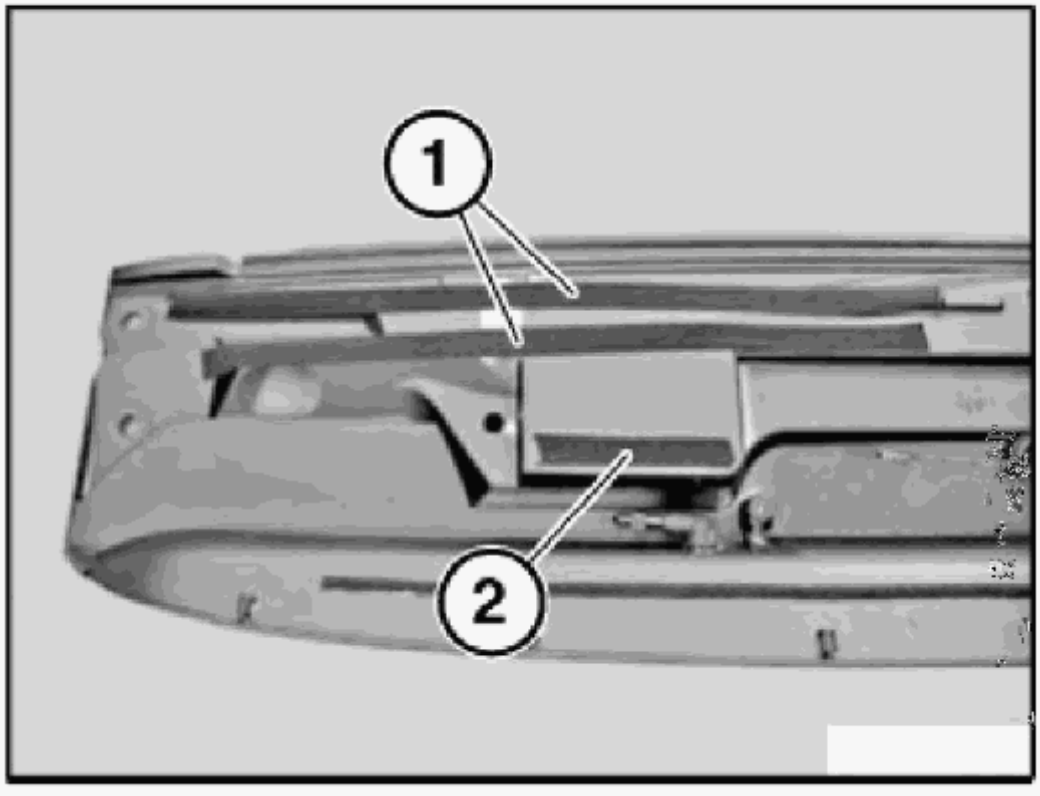
Attachment Parts On Upper Side Of Rear Spoiler Lower Section:

Stick on felt strips (1 and 2) on left/right.

1. 430 mm long
2. 100 mm long

Installation:

Adjust spray nozzle for rear window wiper.



1 430 mm long

2 100 mm long

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Fig. 479: Sticking On Felt Strips (1 And 2) On Left/Right
Courtesy of BMW OF NORTH AMERICA, INC.