

## 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

**NOTE:** For Special Tool identification, see SPECIAL TOOLS - X5 (3.0i) .

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).



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**Fig. 1: Identifying Hood/Bonnet Stay On Housing**  
Courtesy of BMW OF NORTH AMERICA, INC.

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

Special tool can be used in both directions.

Release gas spring strut on left/right housing side.

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

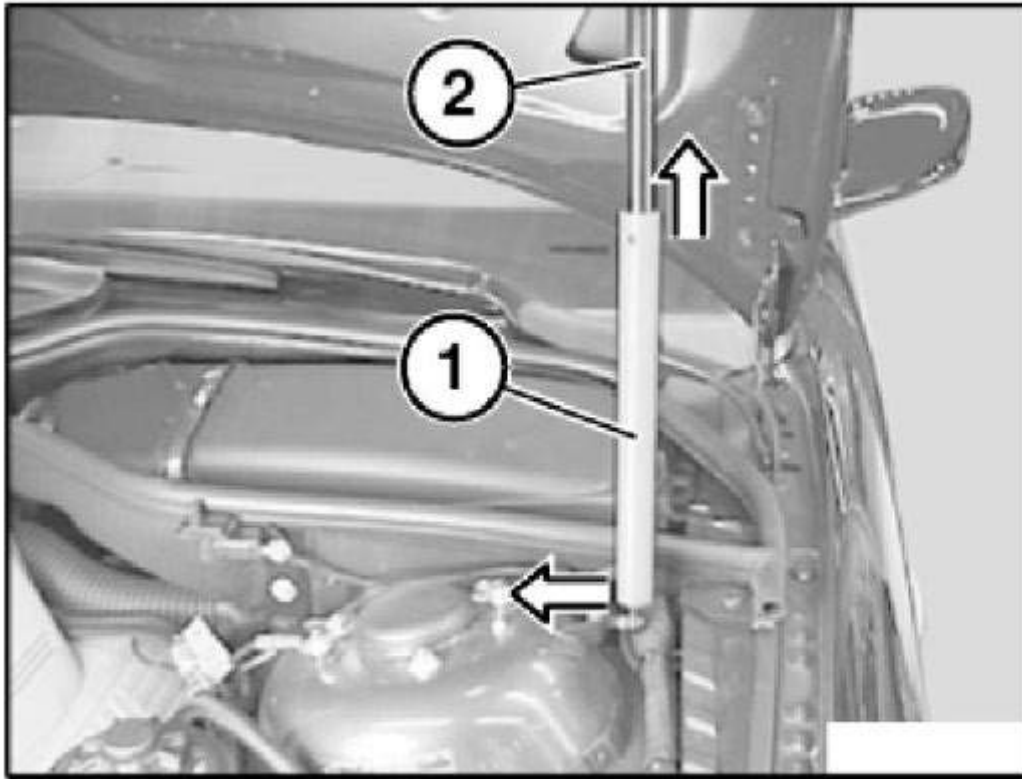
**G03255593**

**Fig. 2: Sliding Hood/Bonnet Stay Over Gas Spring Strut Housing**  
Courtesy of BMW OF NORTH AMERICA, INC.

Clip ball socket of special tool on ball stud.

Proceed in same way on other side.

## **FRONT BUMPER**

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

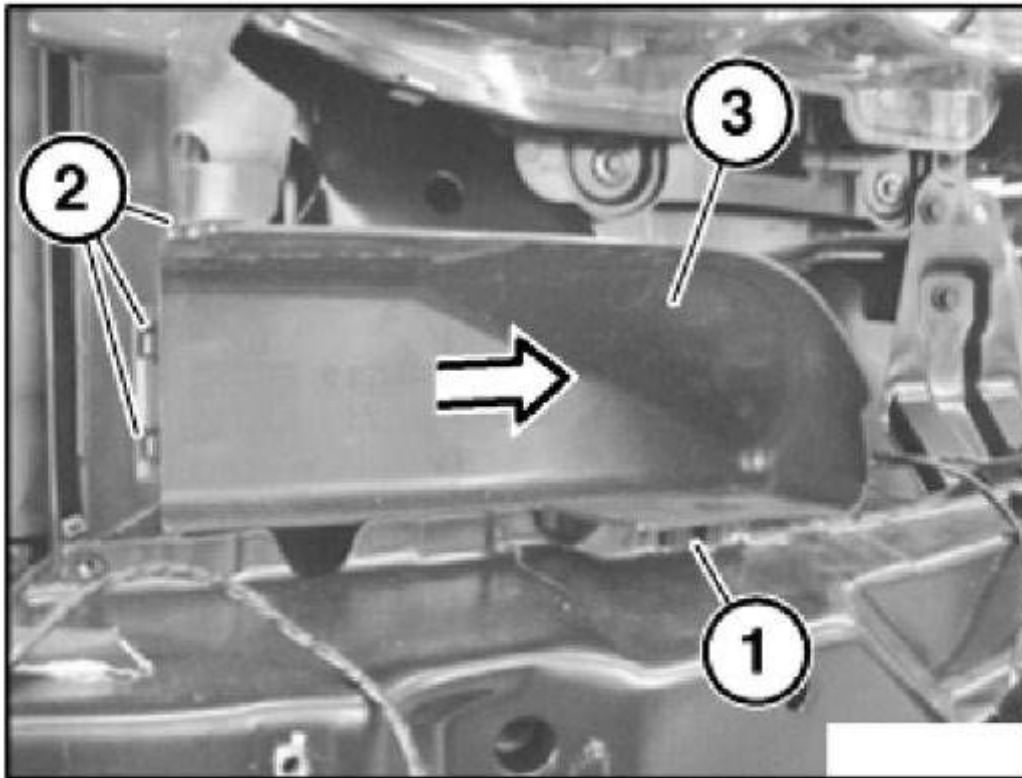
#### **Necessary Preliminary Tasks:**

- Remove underride protection. Refer to **51 71 378 REMOVING AND INSTALLING/REPLACING 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.

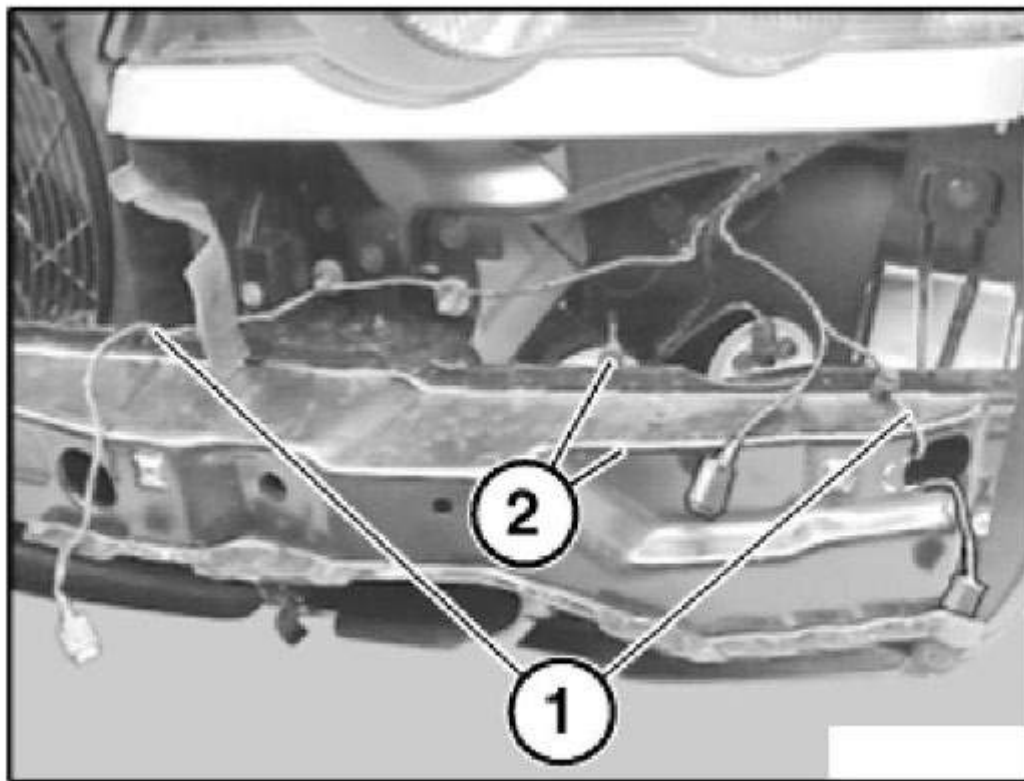


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**Fig. 3: Removing Trim Out Of Guide**  
Courtesy of BMW OF NORTH AMERICA, INC.

Release cable ties (1).

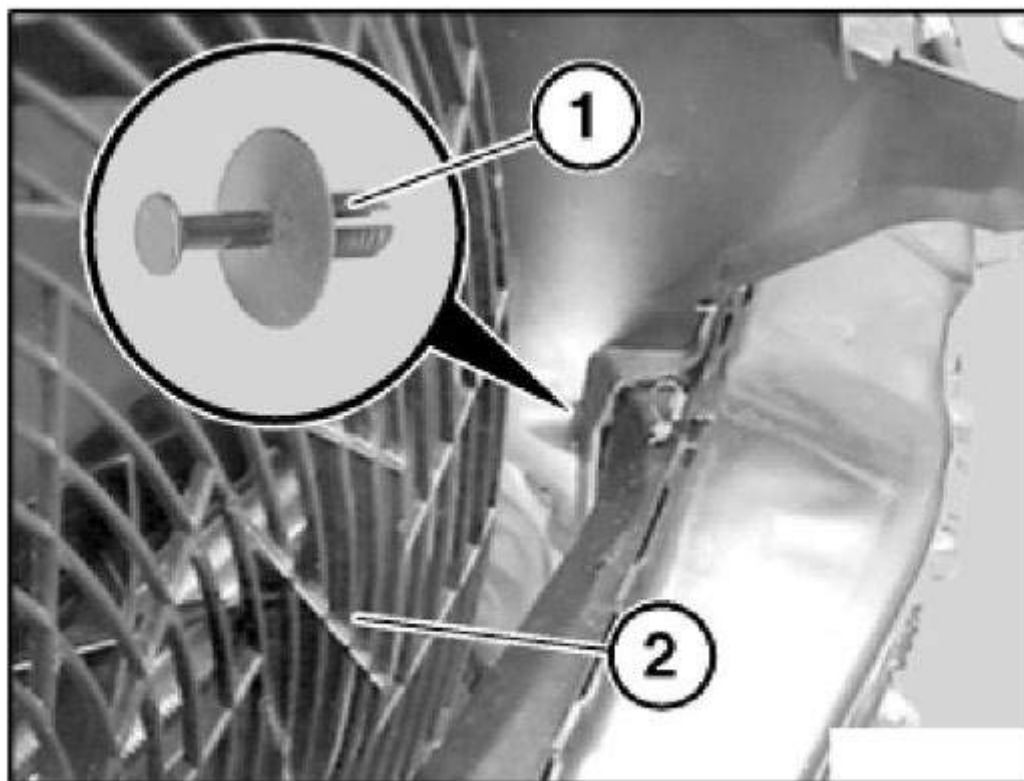
Disconnect plug connections (2) for fanfare horns.



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**Fig. 4: Disconnecting Plug Connections For Fanfare Horns**  
Courtesy of BMW OF NORTH AMERICA, INC.

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



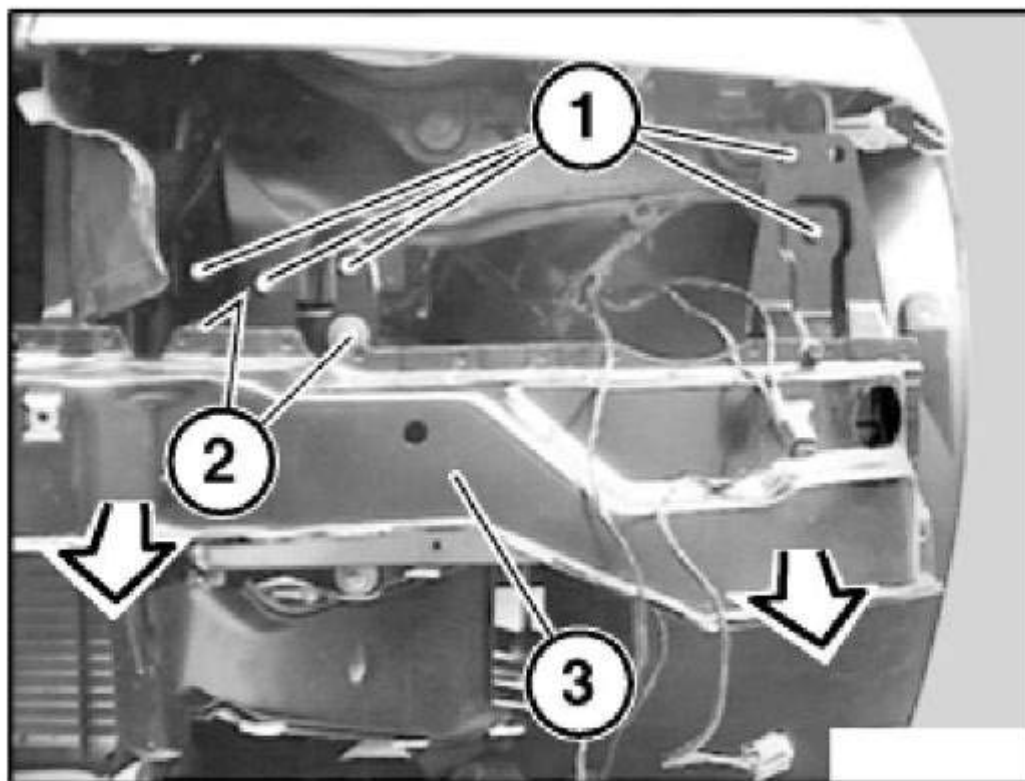
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**Fig. 5: Releasing Expander Rivet From Fan Impeller**  
Courtesy of BMW OF NORTH AMERICA, INC.

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

Release screws (1).

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

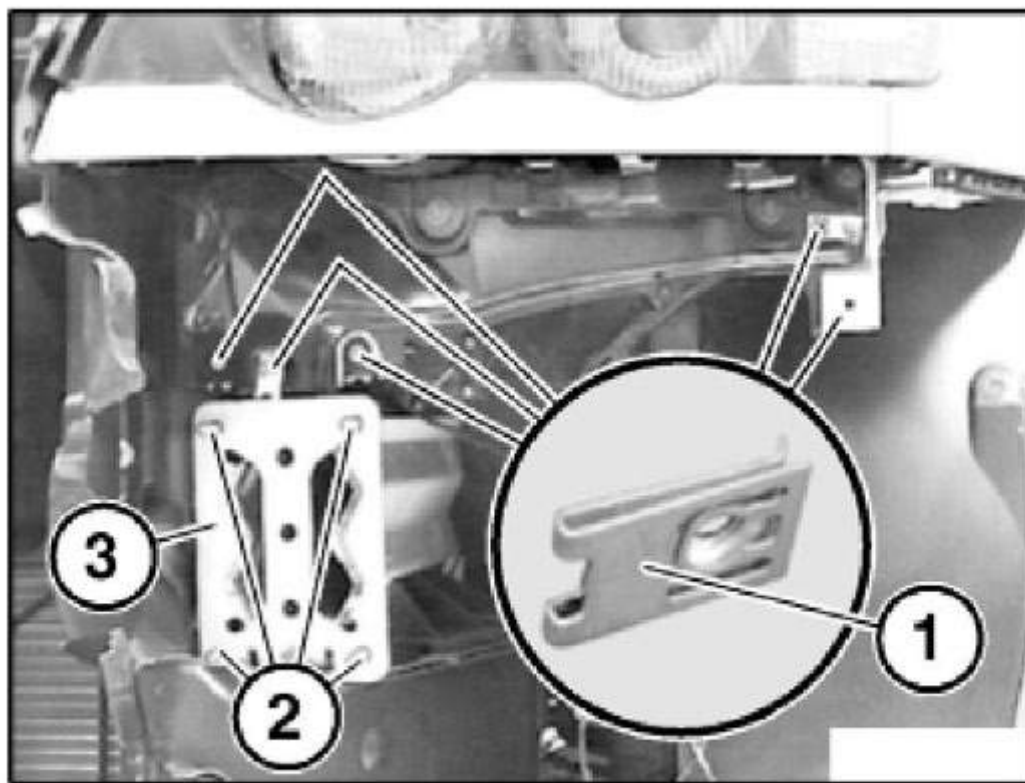


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**Fig. 6: Locating Nuts And Screws On Member**  
Courtesy of BMW OF NORTH AMERICA, INC.

**Installation:**

If necessary, replace faulty metal nuts (1).



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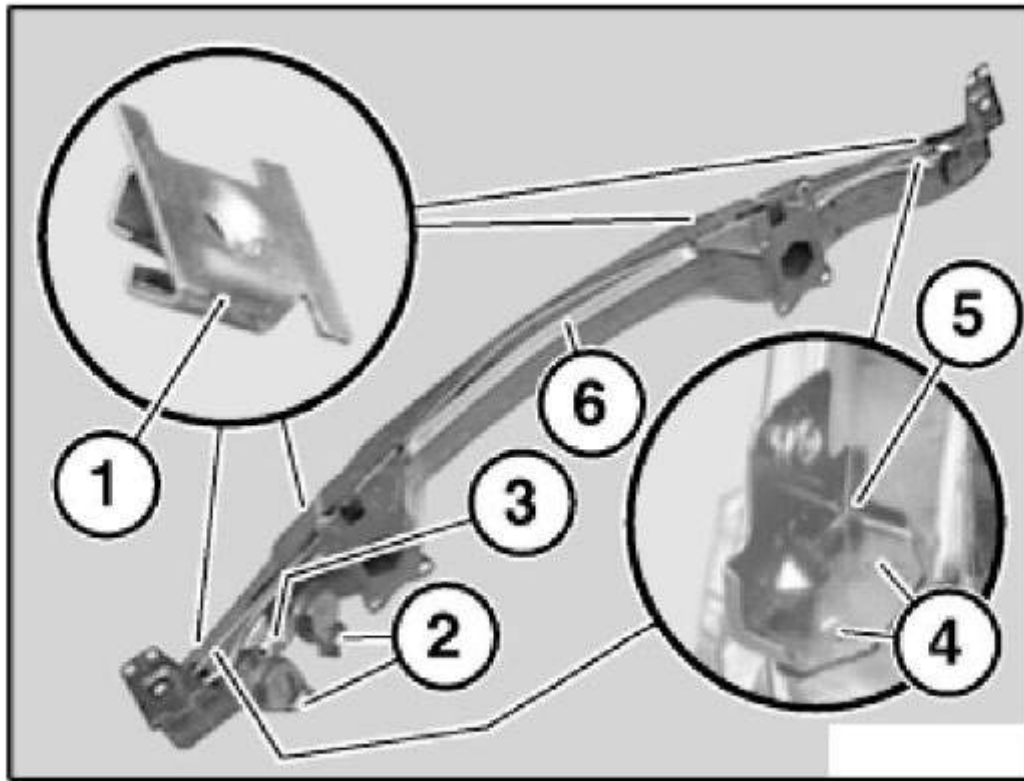
**Fig. 7: Identifying Faulty Metal Nuts**

Courtesy of BMW OF NORTH AMERICA, INC.

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

**Installation:**

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



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**Fig. 8: Identifying Components On Cross-Member**  
Courtesy of BMW OF NORTH AMERICA, INC.

**Replacement:**

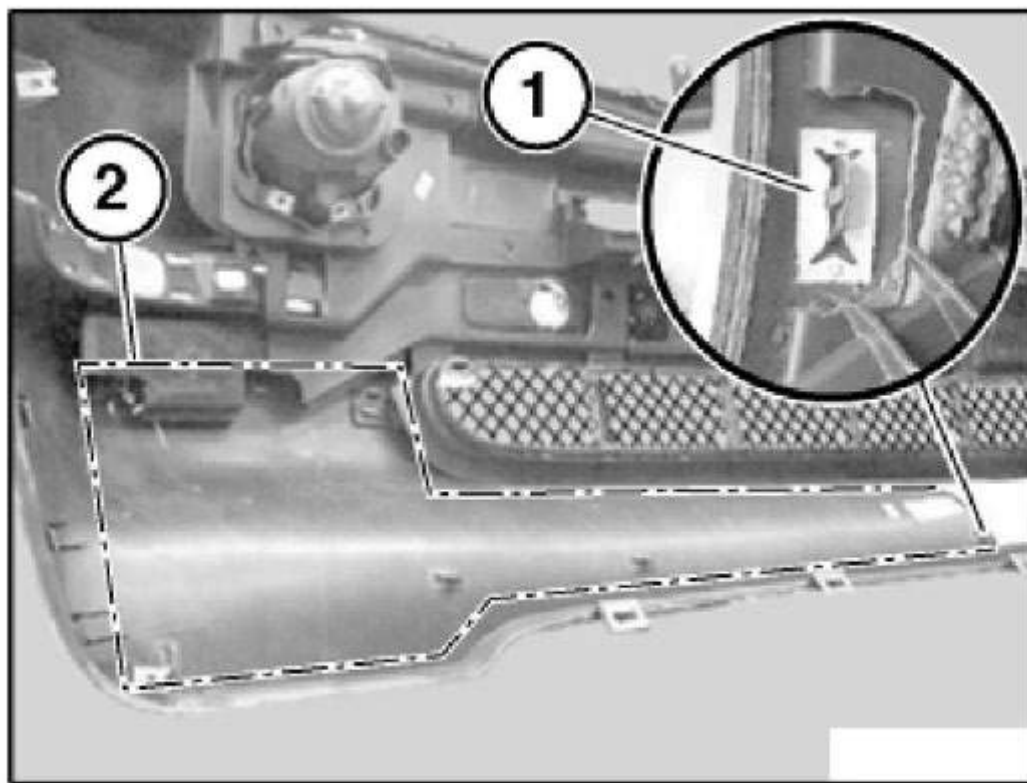
Release nut (3) and remove fanfare horns (2).

**Version Up To 10/03:**

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

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

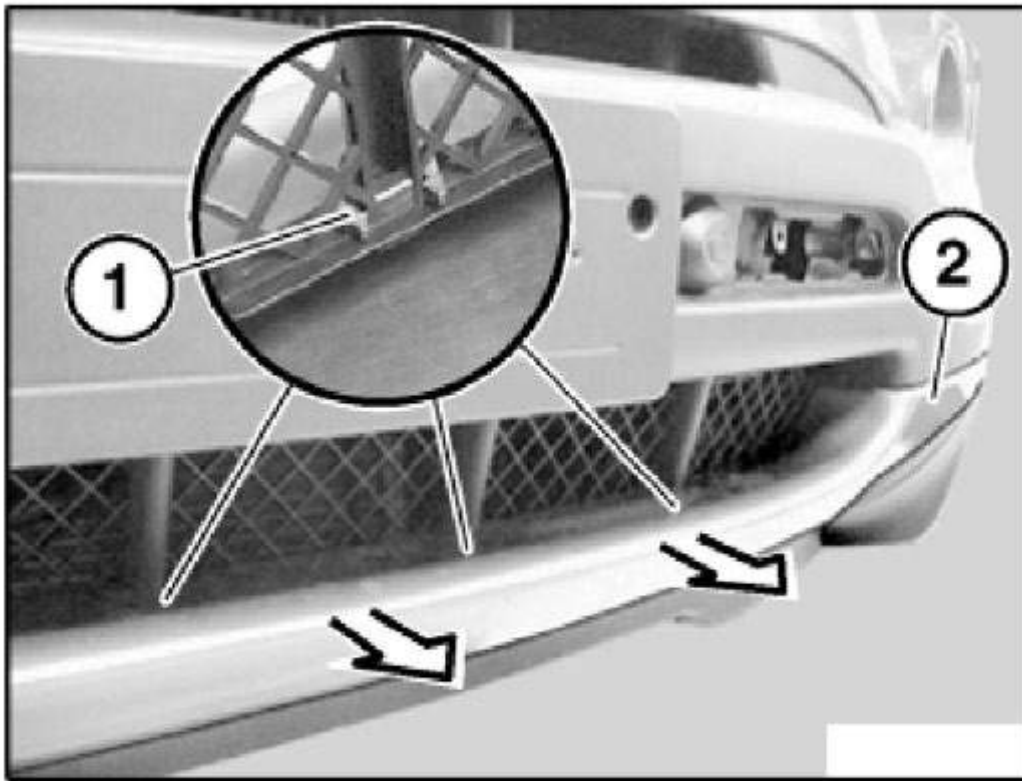
Release spring clips (1) in area (2) on left and right.



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**Fig. 9: Locating Spring Clips 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.



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

**51 11 156 REMOVING AND INSTALLING FRONT BUMPER TRIM (FROM 10/03)**

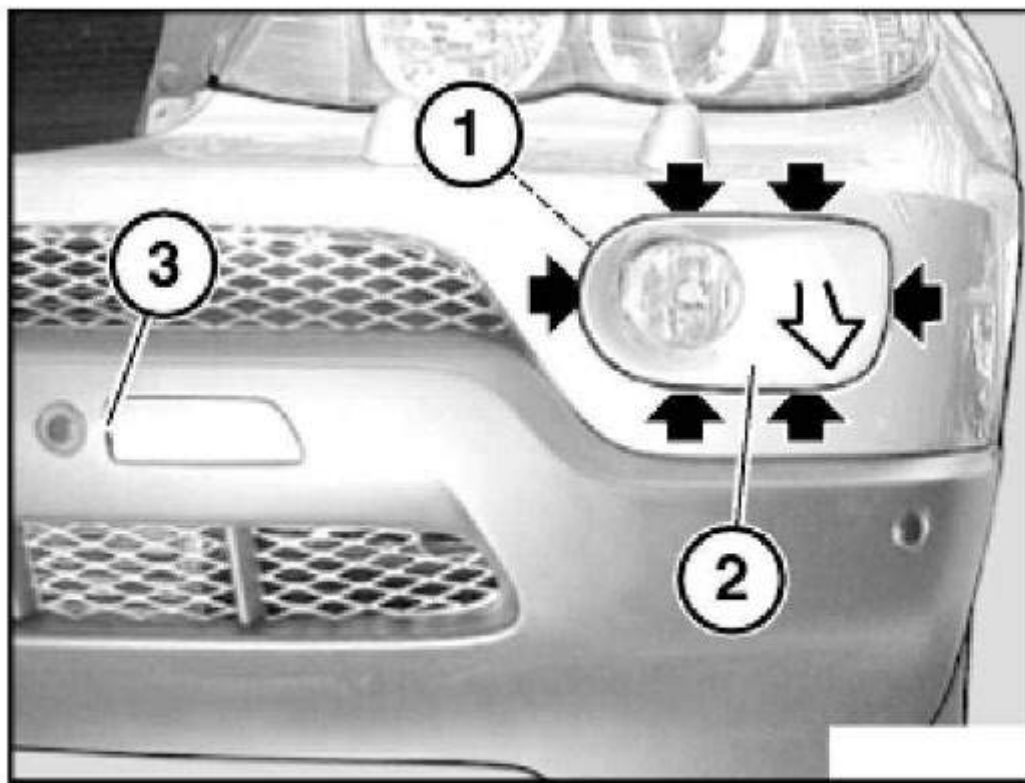
**NOTE:** For Special Tool identification, see **SPECIAL TOOLS - X5 (3.0i)** .

**Special Tools Required:**

- 00 9 317

Lever out catches (1) on trim (2) with special tool 00 9 317 .

Lever out trim (3) and remove.

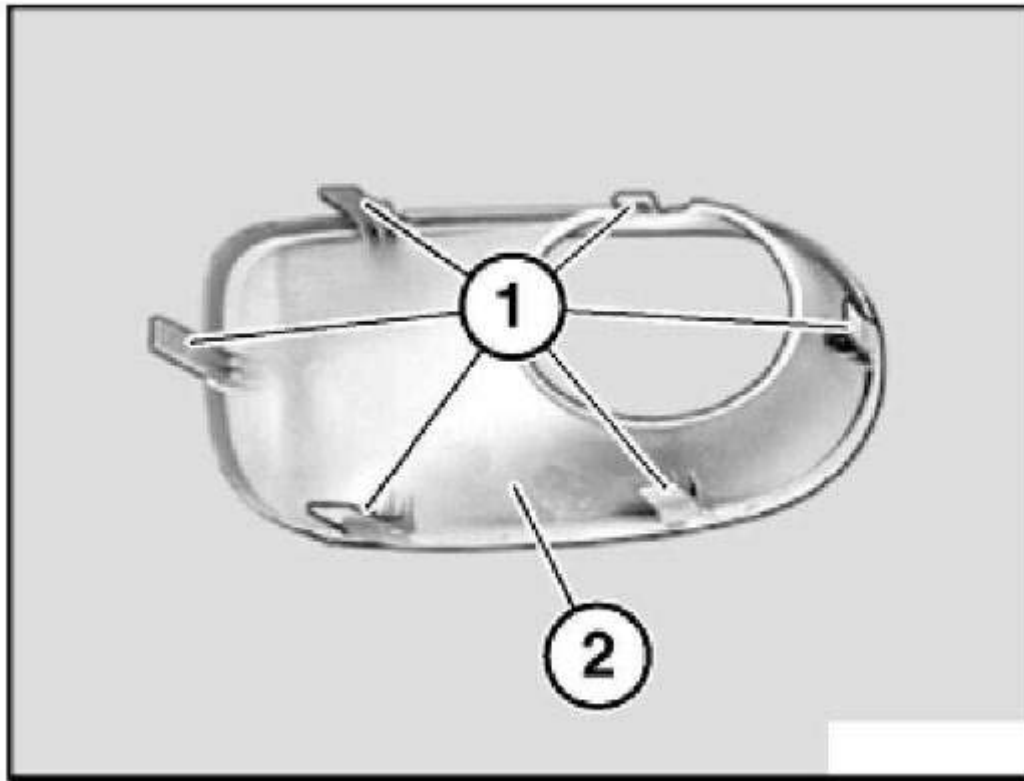


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**Fig. 11: Locating Catches On Front Bumper Trim**  
Courtesy of BMW OF NORTH AMERICA, INC.

**Installation:**

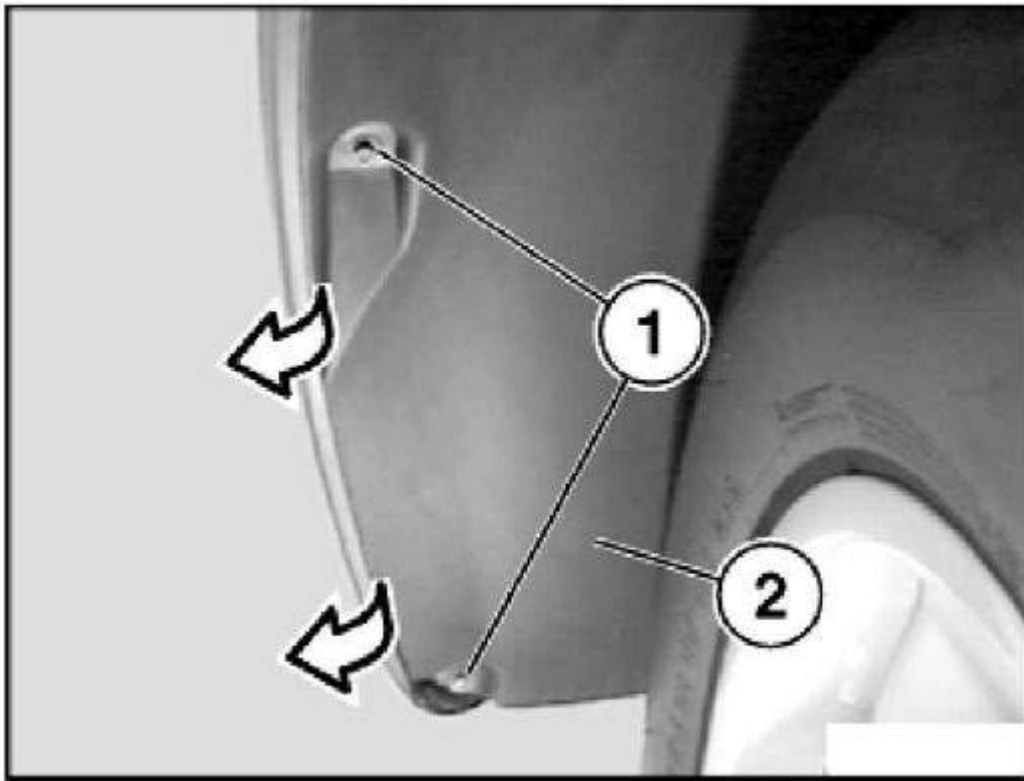
Catches (1) on trim (2) must not be damaged.



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**Fig. 12: View Of Catches On Front Bumper Trim**  
Courtesy of BMW OF NORTH AMERICA, INC.

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



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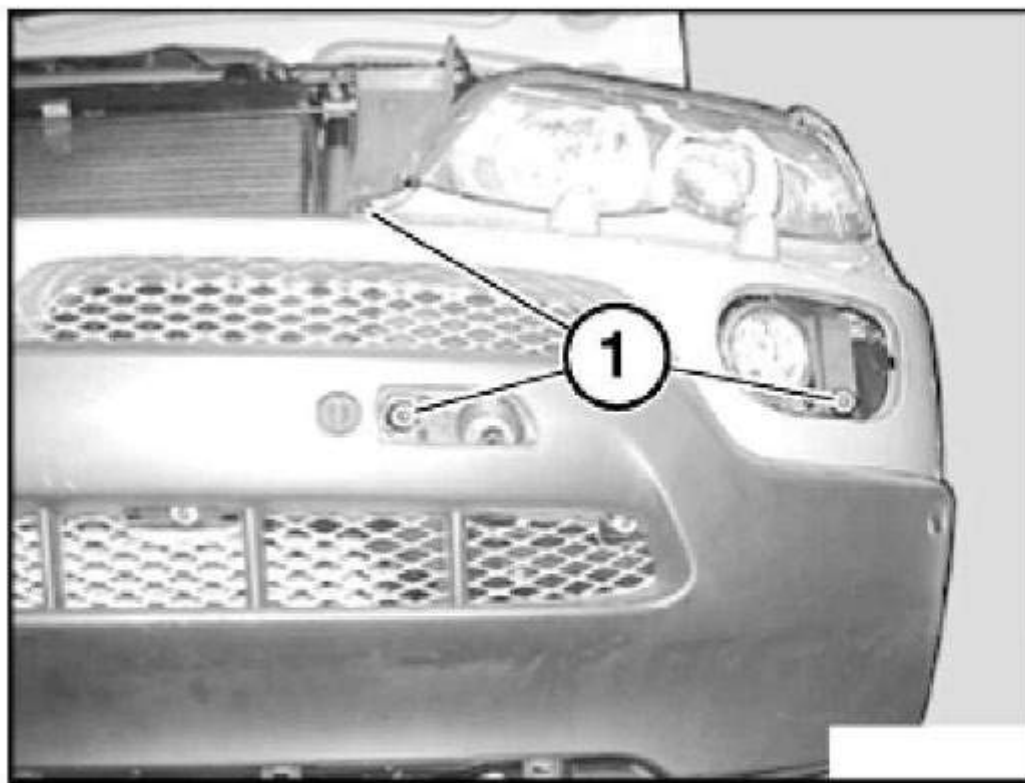
**Fig. 13: Locating Wheel Arch Finishers Retaining Screws**  
Courtesy of BMW OF NORTH AMERICA, INC.

Raise hood lid.

Release screws (1) on left/right.

## 2001 BMW X5 30i

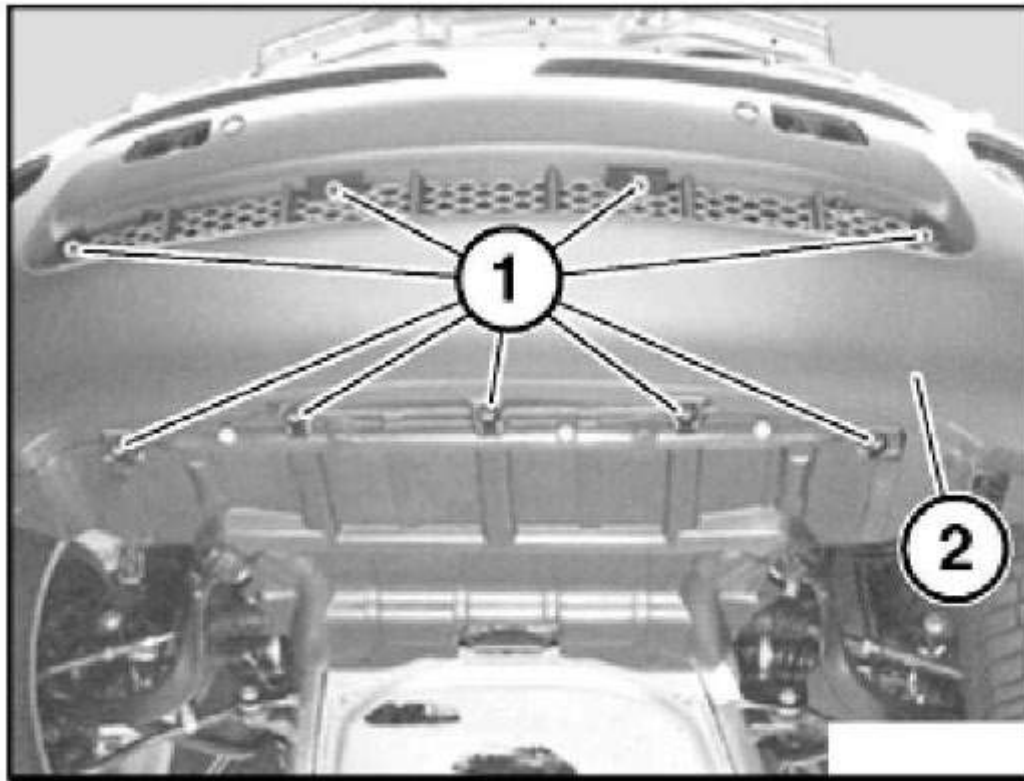
2001-2003 ACCESSORIES AND EQUIPMENT Exterior/Interior Trim - Repair Instructions - X5 (3.0i ) E53



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**Fig. 14: Identifying Screws On Left And Right**  
Courtesy of BMW OF NORTH AMERICA, INC.

Release screws (1) on bumper trim (2).



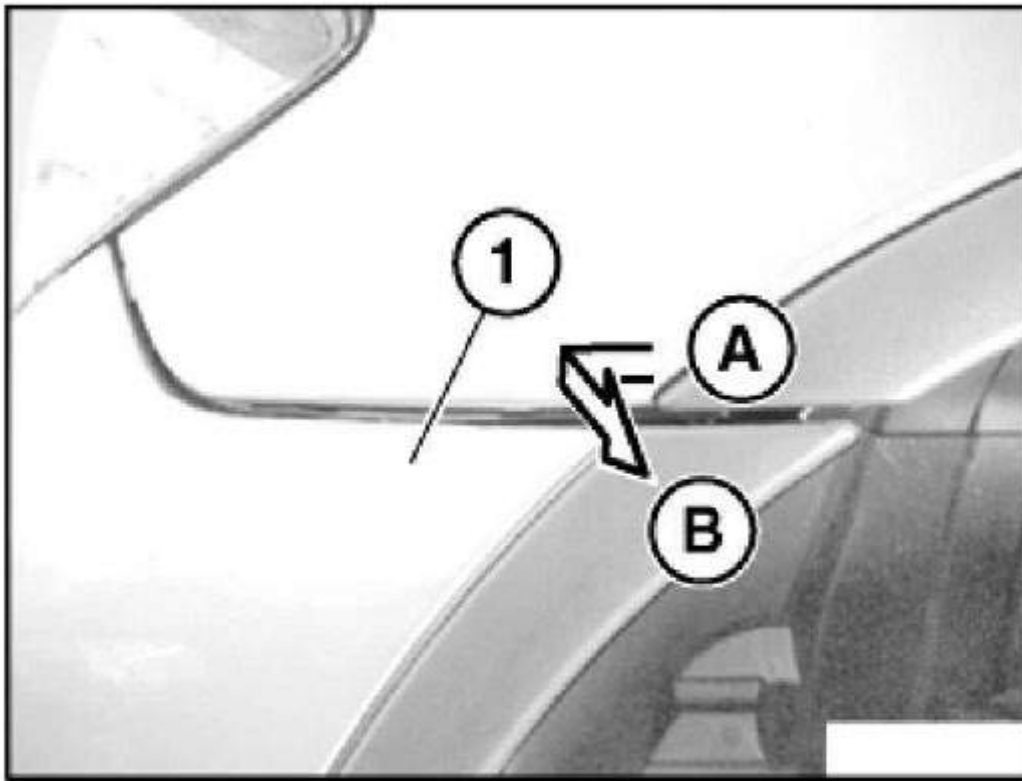
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**Fig. 15: Removing Screws On Bumper Trim**  
Courtesy of BMW OF NORTH AMERICA, INC.

**IMPORTANT:** Do not damage bumper trim when pulling off.

Pull bumper trim (1).

- A. In direction of travel to unlock catches on holder.
- B. Pull off outwards from holder.



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**Fig. 16: Removing Bumper Trim**

Courtesy of BMW OF NORTH AMERICA, INC.

**Version Without Headlight Cleaning System:**

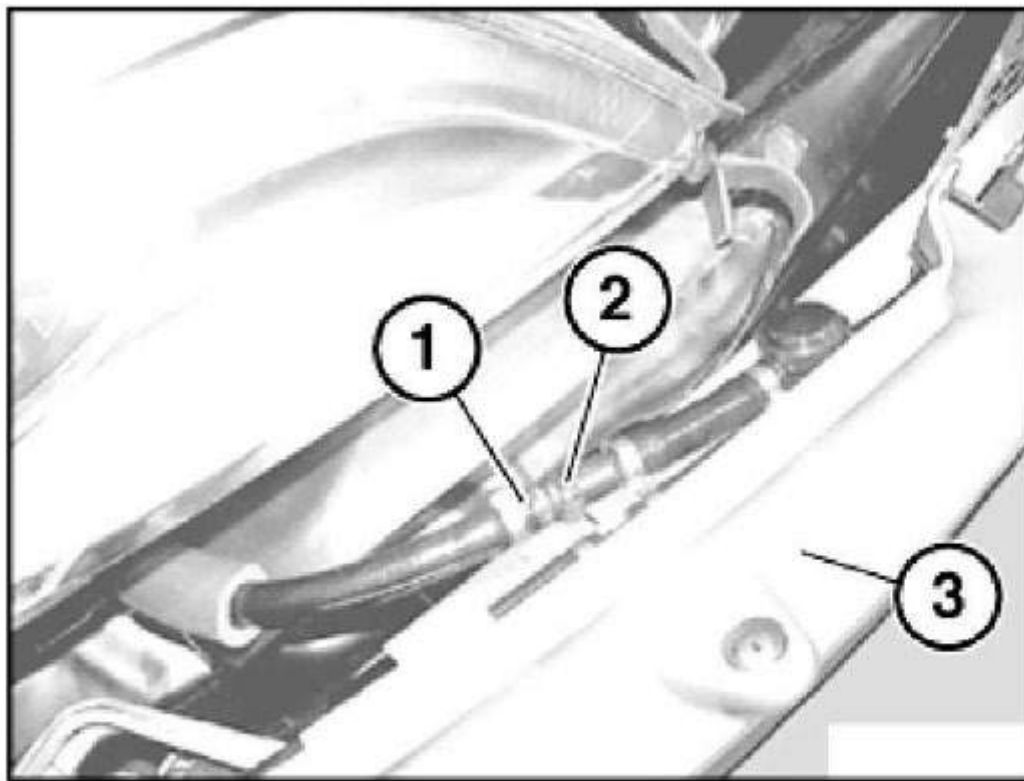
Pull bumper trim (1) forwards a little.

If necessary, disconnect plug connections on ultrasonic sensors and/or front fog lamps. Remove bumper trim (1) towards front.

**Version With Headlight Cleaning System:**

**NOTE:** Have a rubber plug on hand.

If necessary, pull bumper trim (3) forwards a little. Unlock hose (1), detach and seal pump outlet (2).



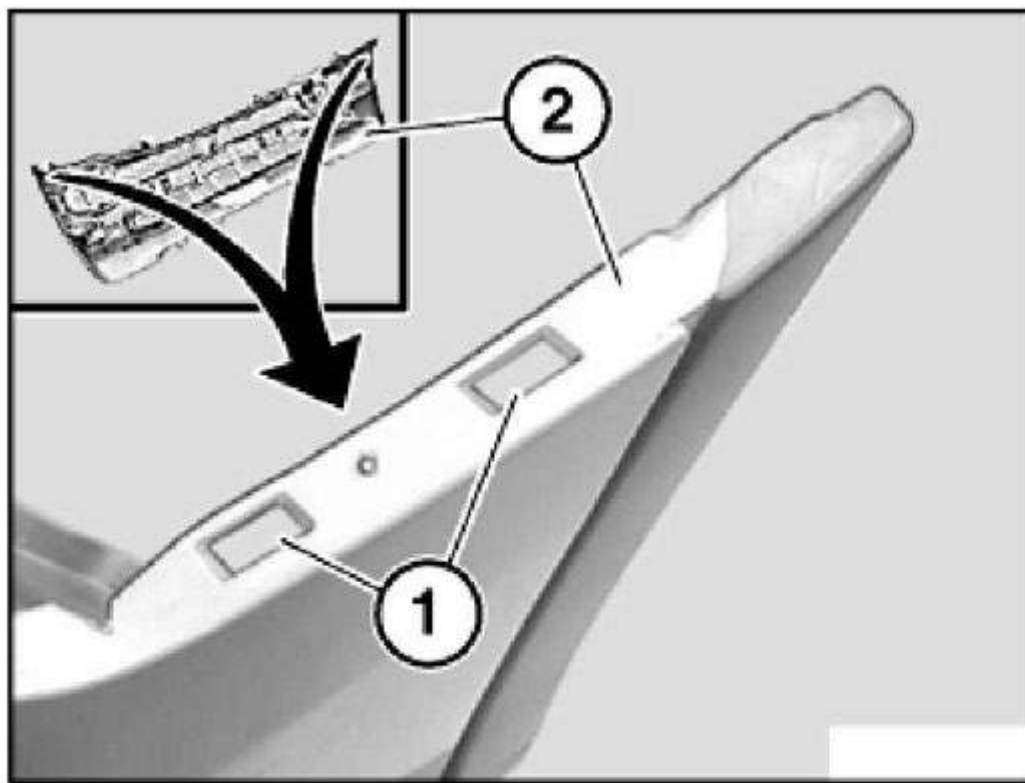
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**Fig. 17: Identifying Hose And Pump Outlet**  
Courtesy of BMW OF NORTH AMERICA, INC.

Remove bumper trim (1) towards front.

**Installation:**

Tabs (1) on bumper trim (2) must not be damaged.



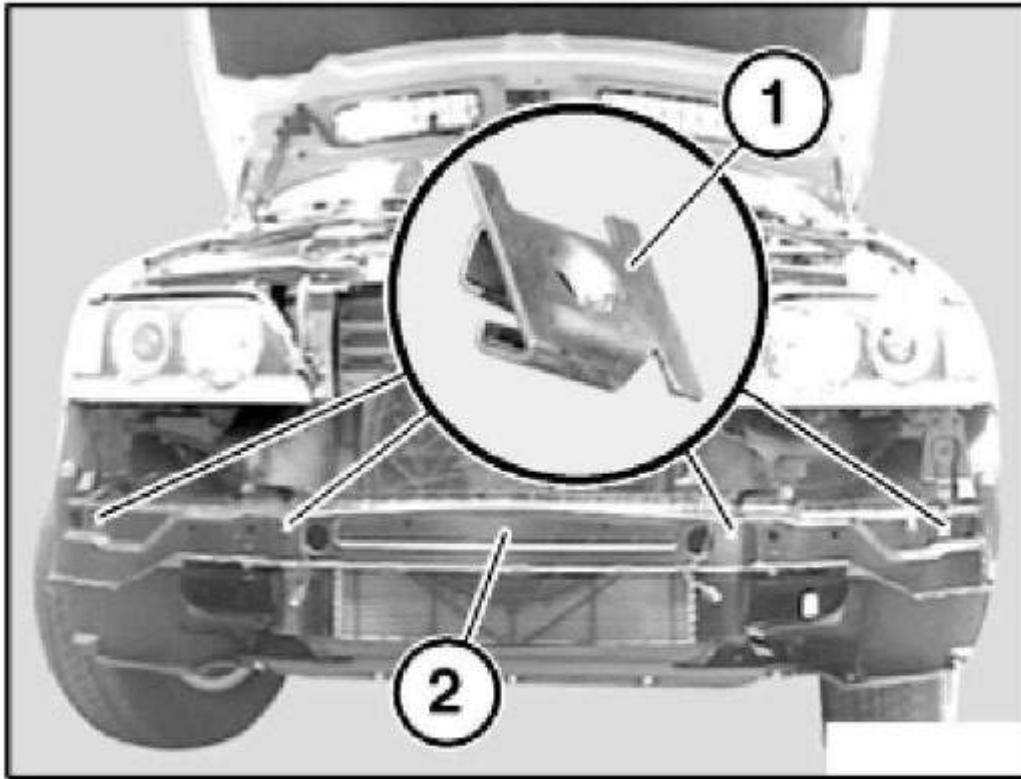
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**Fig. 18: Locating Tabs On Bumper Trim**

Courtesy of BMW OF NORTH AMERICA, INC.

**Installation:**

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



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**Fig. 19: View Of Carrier Retainers**

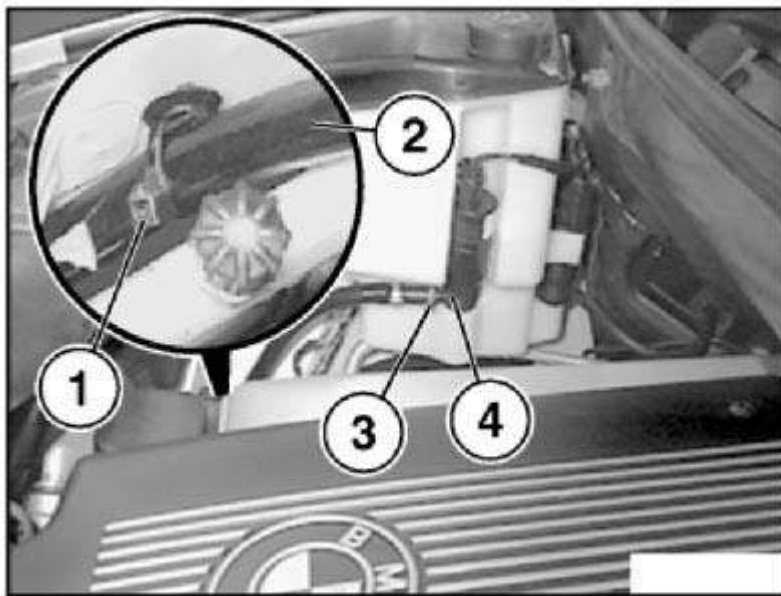
Courtesy of BMW OF NORTH AMERICA, INC.

## 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).

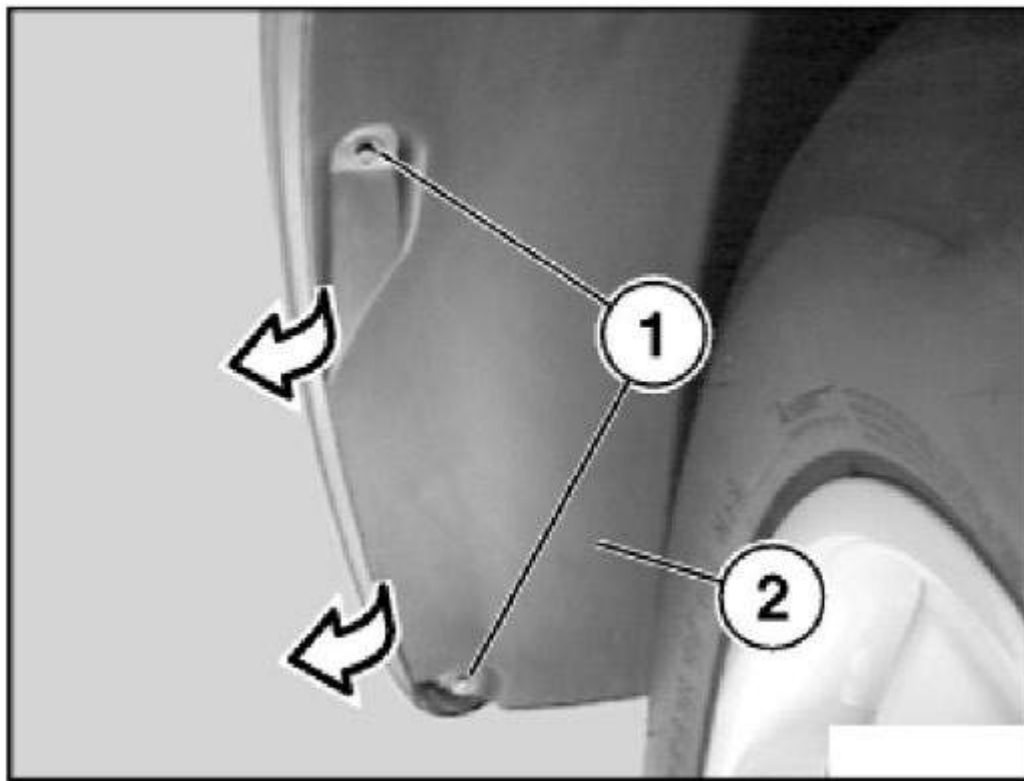


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**Fig. 20: Removing Cable Tie From Hose**  
Courtesy of BMW OF NORTH AMERICA, INC.

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

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



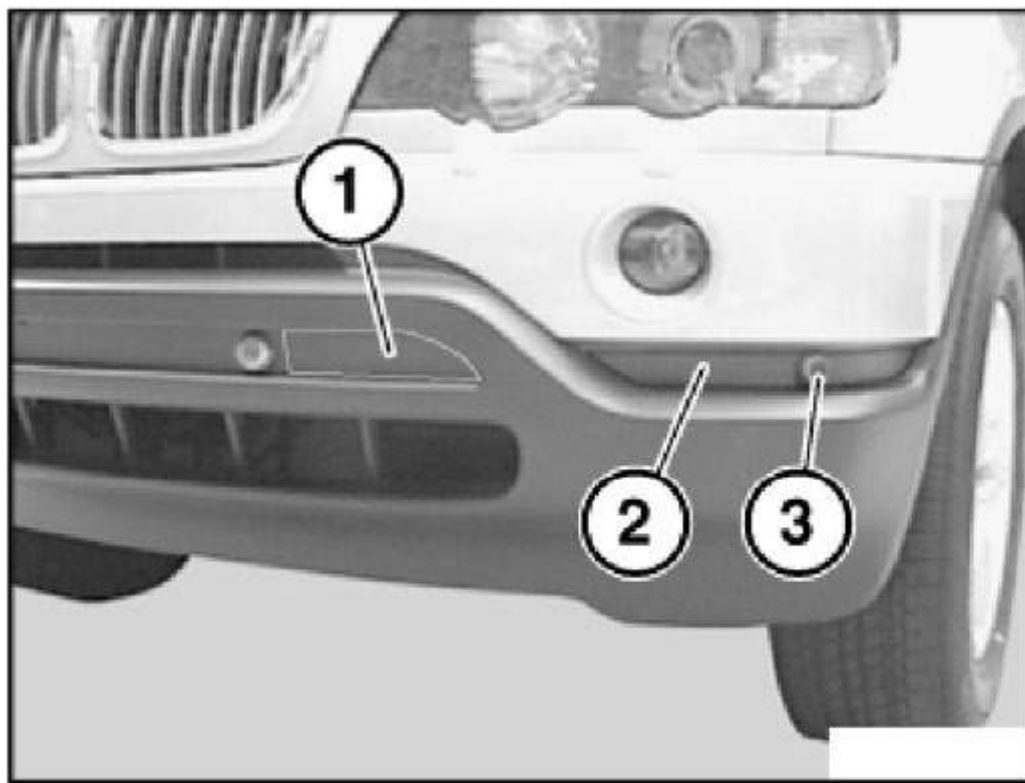
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**Fig. 21: Releasing Screws On Wheel Arch Finishers**  
Courtesy of BMW OF NORTH AMERICA, INC.

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).

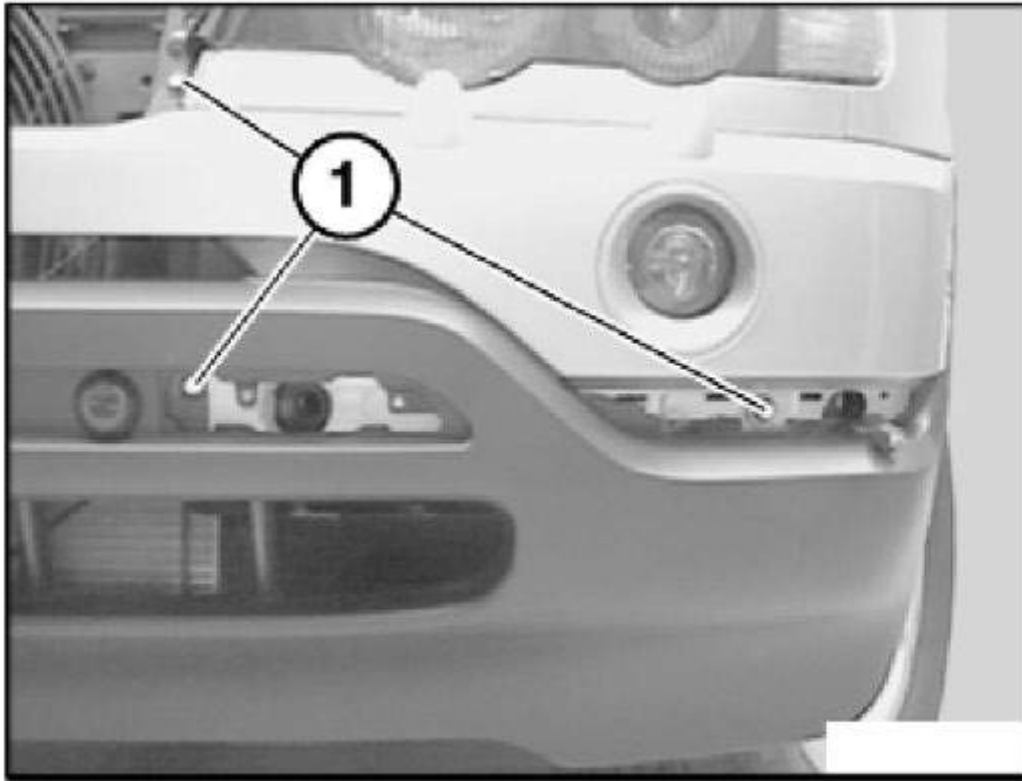


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**Fig. 22: Disconnecting Plug Connection On Ultrasonic Sensors**  
Courtesy of BMW OF NORTH AMERICA, INC.

Raise hood lid.

Release screws (1) on left/right.



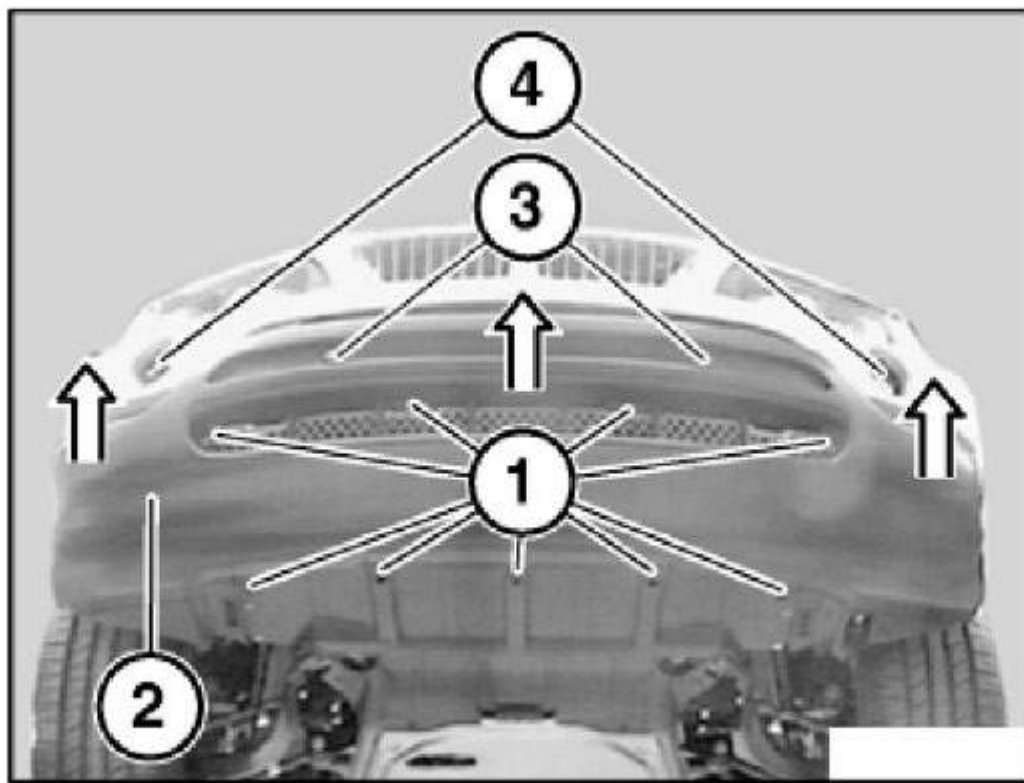
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**Fig. 23: Locating Screws On Left And Right**  
Courtesy of BMW OF NORTH AMERICA, INC.

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).



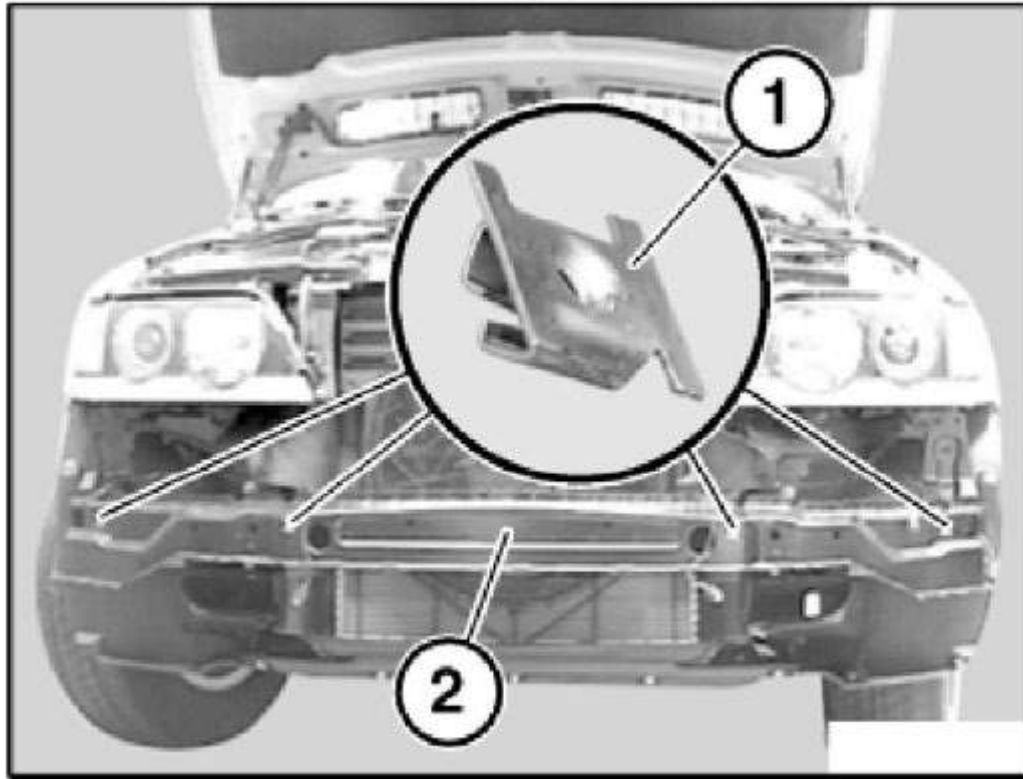
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**Fig. 24: Locating Ultrasonic Sensors And Fog Lamps**  
Courtesy of BMW OF NORTH AMERICA, INC.

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

**Installation:**

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



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**Fig. 25: Identifying Retainers**

Courtesy of BMW OF NORTH AMERICA, INC.

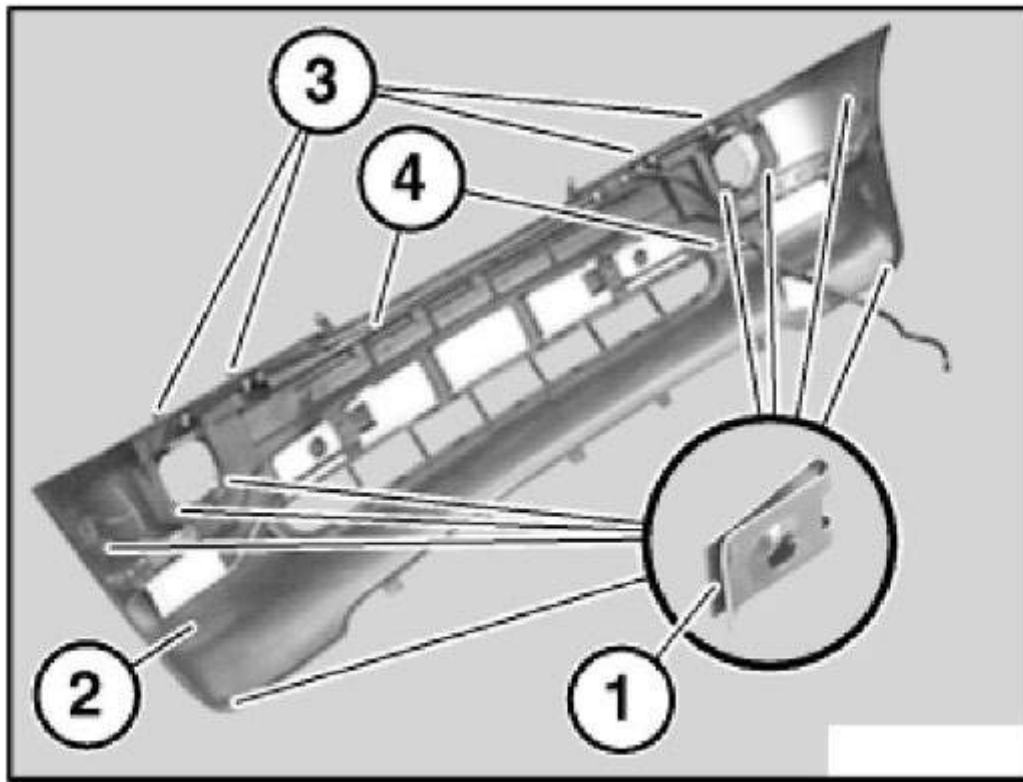
## **51 11 157 REPLACING FRONT BUMPER TRIM**

### **Necessary Preliminary Tasks:**

- Unscrew and remove license plate
- Remove front bumper trim. Refer to **51 11 156 REMOVING AND INSTALLING FRONT BUMPER TRIM (FROM 10/03)** or **51 11 156 REMOVING AND INSTALLING FRONT BUMPER TRIM (UP TO 10/03)** .
- Remove holder for number/license plate. Refer to **51 11 158 REPLACING BASEPLATE FOR LICENSE PLATE** .
- Remove both fog lamp inserts (complete). Refer to **63 17 060 REMOVING AND INSTALLING LEFT OR RIGHT FOG LAMP (FROM 10/2003)** or **63 17 060 REMOVING AND INSTALLING LEFT OR RIGHT FOG LAMP (UP TO 10/2003)** .
- If necessary, remove grill for bumper trim. Refer to **51 11 180 REMOVING AND**

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

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



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**Fig. 26: Locating Metal Nuts In Bumper Trim**  
Courtesy of BMW OF NORTH AMERICA, INC.

**Version With Headlight Cleaning System:**

If necessary, remove jet nozzles (3). Refer to **61 67 045 REMOVING AND INSTALLING/REPLACING SPRAY NOZZLES FOR LEFT OR RIGHT HEADLIGHT CLEANING SYSTEM .**

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

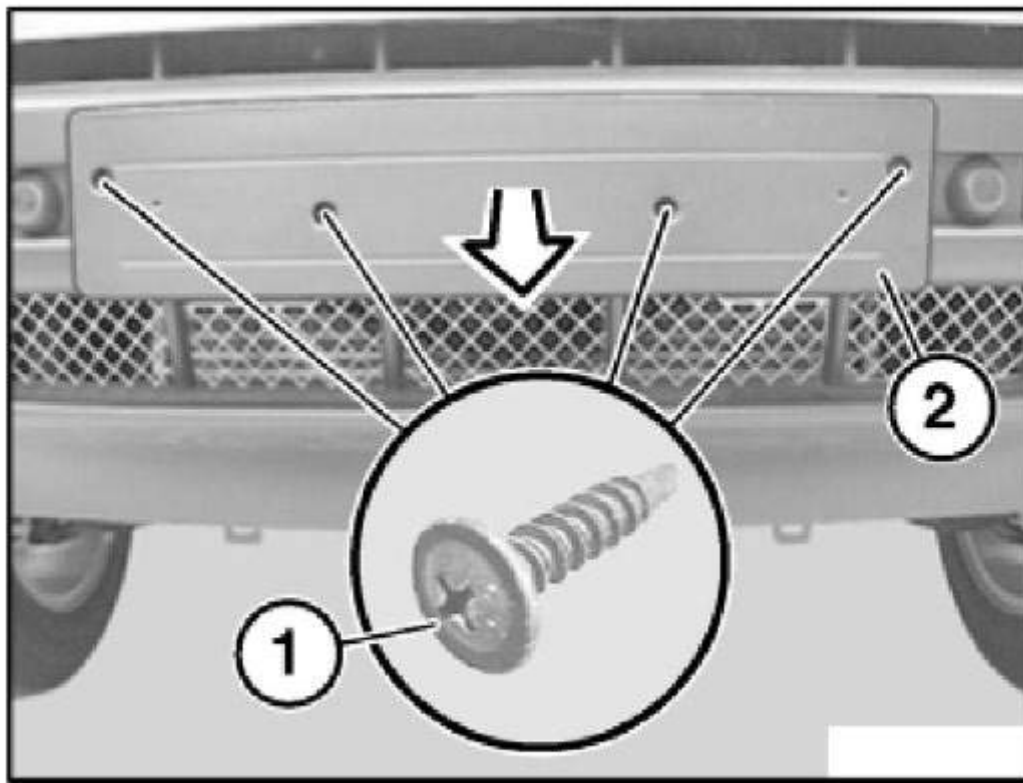
**Version With Park Distance Control:**

If necessary, remove ultrasonic sensors. Refer to **66 20 518 REMOVING AND INSTALLING/REPLACING A FRONT ULTRASONIC TRANSDUCER** or **66 20 520 REMOVING AND INSTALLING/REPLACING A FRONT ULTRASONIC TRANSDUCER (SIDE)** .

### **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. 27: Identifying Baseplate Screws**

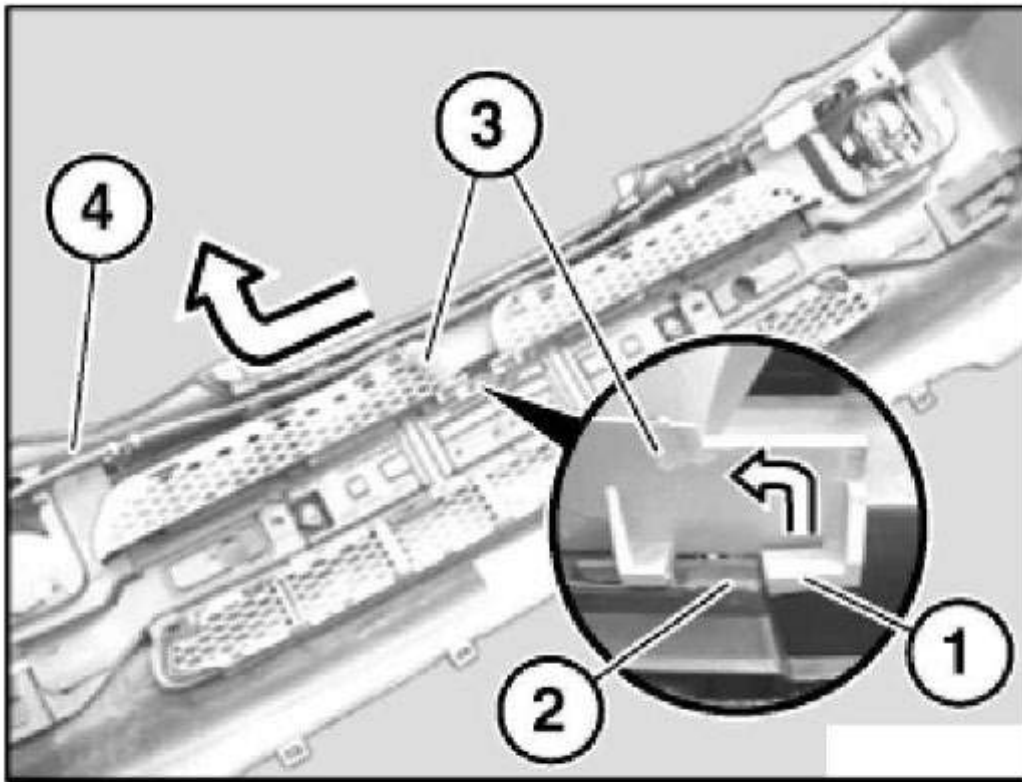
Courtesy of BMW OF NORTH AMERICA, INC.

### **51 11 180 REMOVING AND INSTALLING/REPLACING GRILL FOR BUMPER TRIM (FROM 10/03)**

**Necessary Preliminary Tasks:**

- Remove front bumper trim. Refer to **51 11 156 REMOVING AND INSTALLING FRONT BUMPER TRIM (FROM 10/03)** .

Slide grill (3) in direction of arrow until lug (1) rests against stop (2) of bumper trim (4).



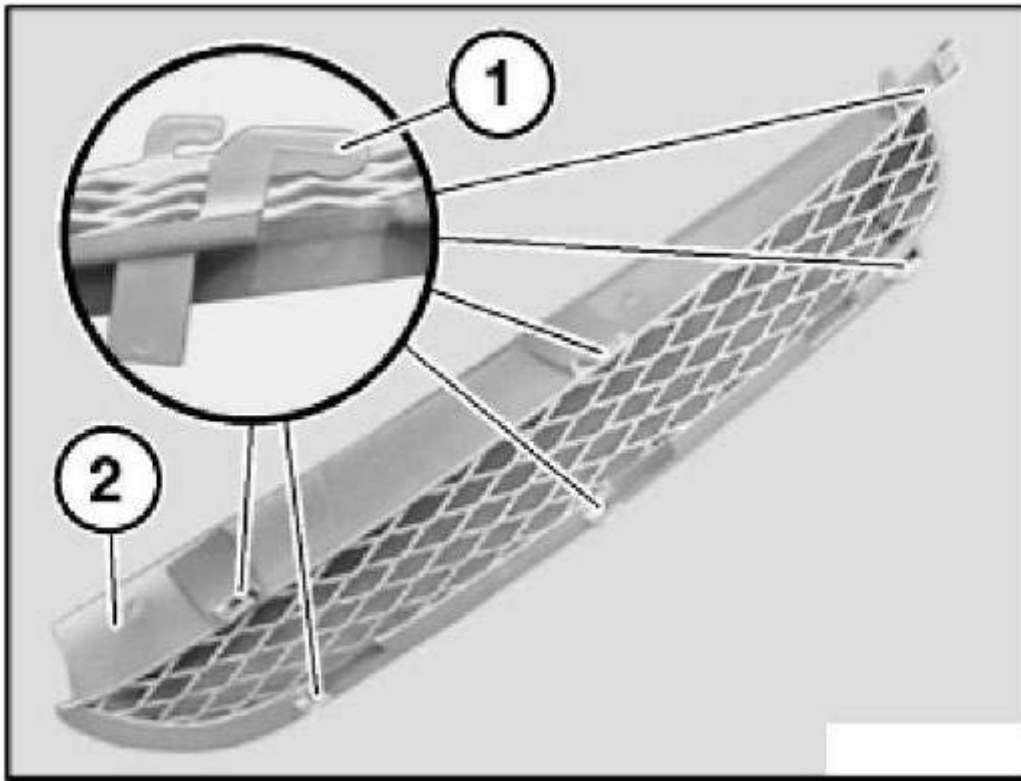
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**Fig. 28: Aligning Lug Against Stop**  
Courtesy of BMW OF NORTH AMERICA, INC.

Raise lug (1) and unhook grill (3) in direction of arrow.

**Installation:**

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

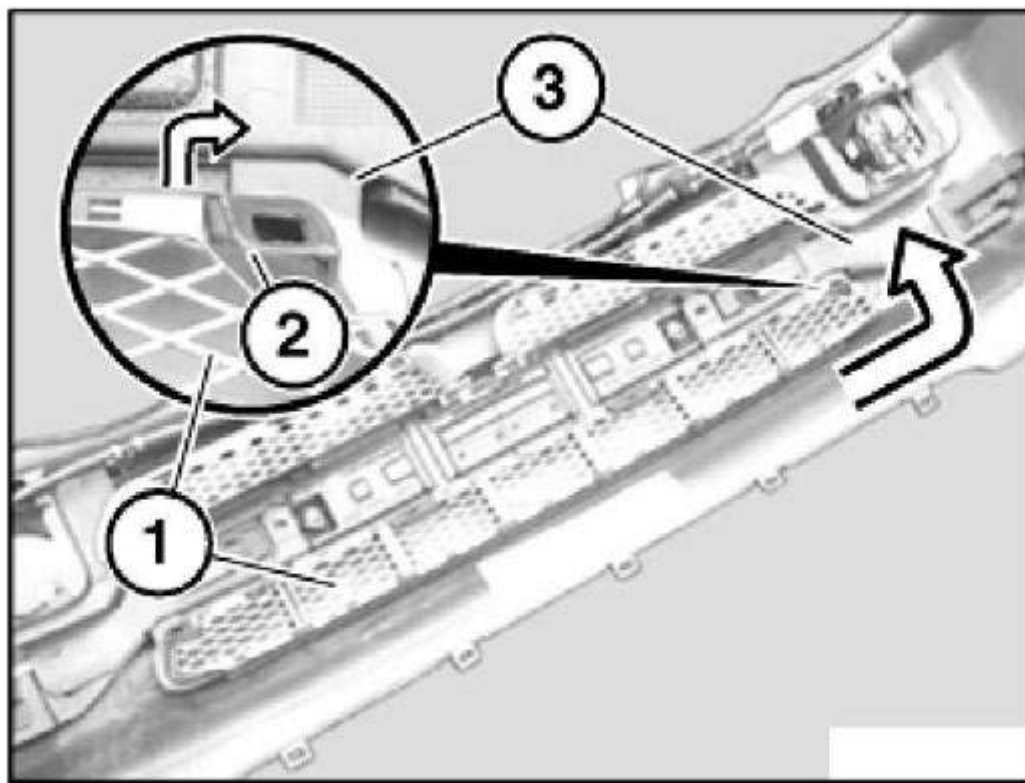


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**Fig. 29: Identifying Hooks On Trim**

Courtesy of BMW OF NORTH AMERICA, INC.

Slide grill (1) in direction of arrow until it rests against stop (2) of bumper trim (3).



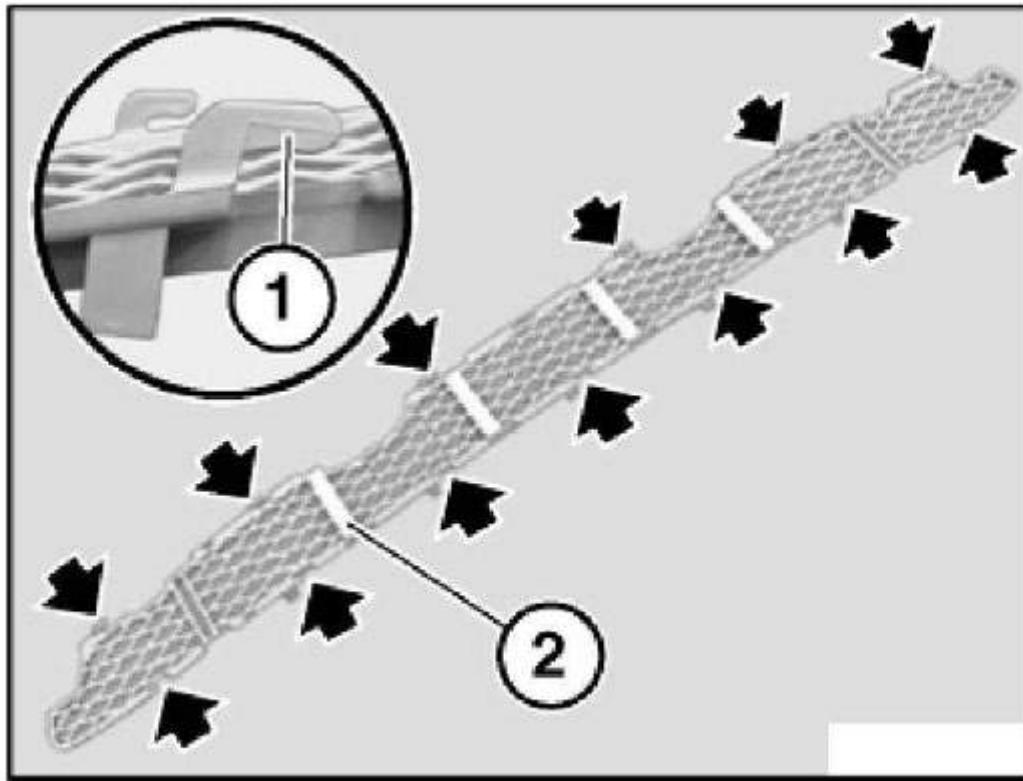
G03230970

**Fig. 30: Locating Stop Of Bumper Trim**  
Courtesy of BMW OF NORTH AMERICA, INC.

Raise grill (1) and unhook in direction of arrow.

**Installation:**

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



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**Fig. 31: View Of Trim Hook**

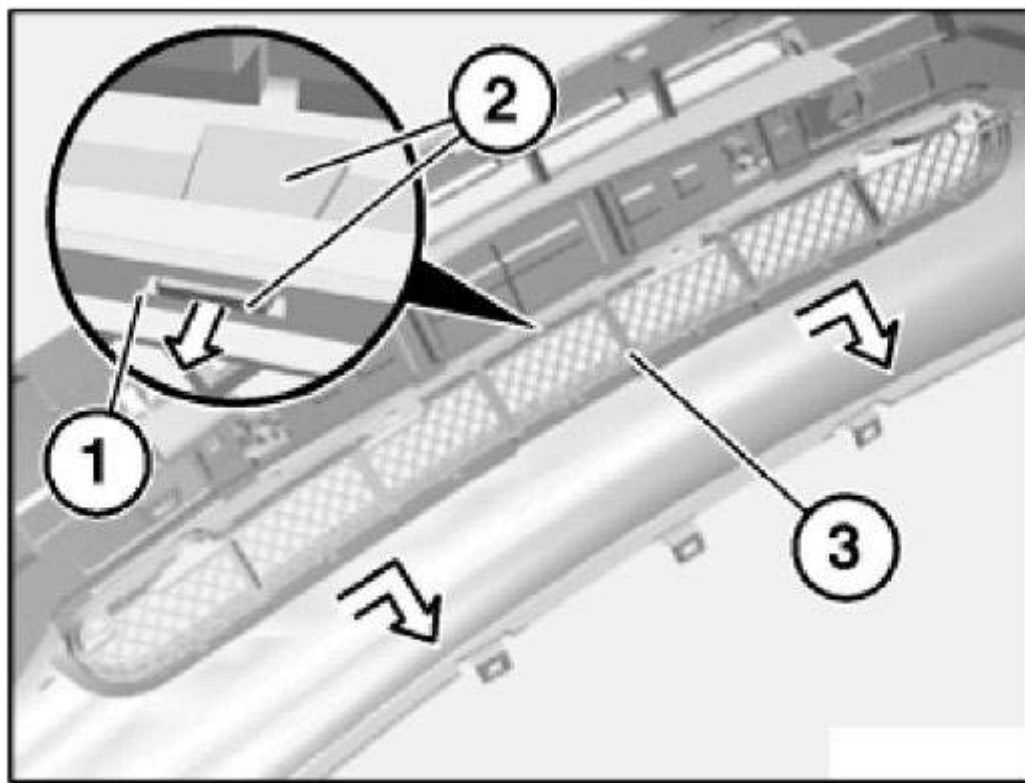
Courtesy of BMW OF NORTH AMERICA, INC.

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

**Necessary Preliminary Tasks:**

- Remove front bumper trim. **51 11 156 REMOVING AND INSTALLING FRONT BUMPER TRIM (UP TO 10/03)** .

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

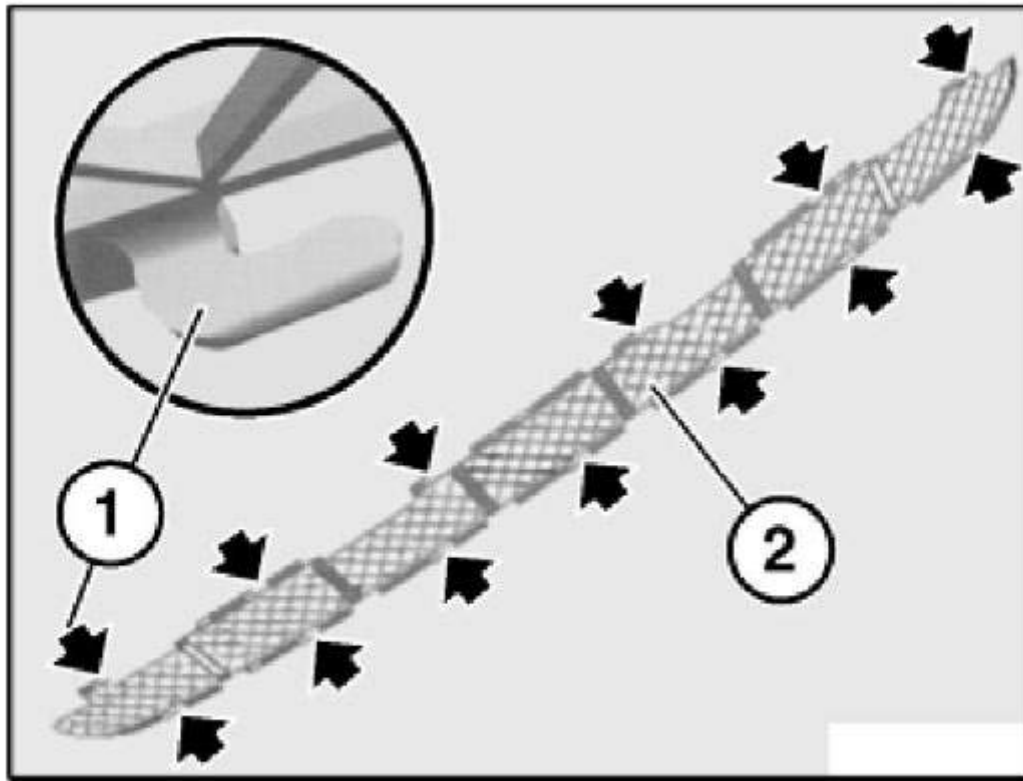


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**Fig. 32: Levering Rib Out Of Fixture**  
Courtesy of BMW OF NORTH AMERICA, INC.

**Installation:**

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



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**Fig. 33: Identifying Hooks Of Trim**

Courtesy of BMW OF NORTH AMERICA, INC.

#### **51 11 701 REPLACING LEFT OR RIGHT BRACKET FOR FRONT BUMPER**

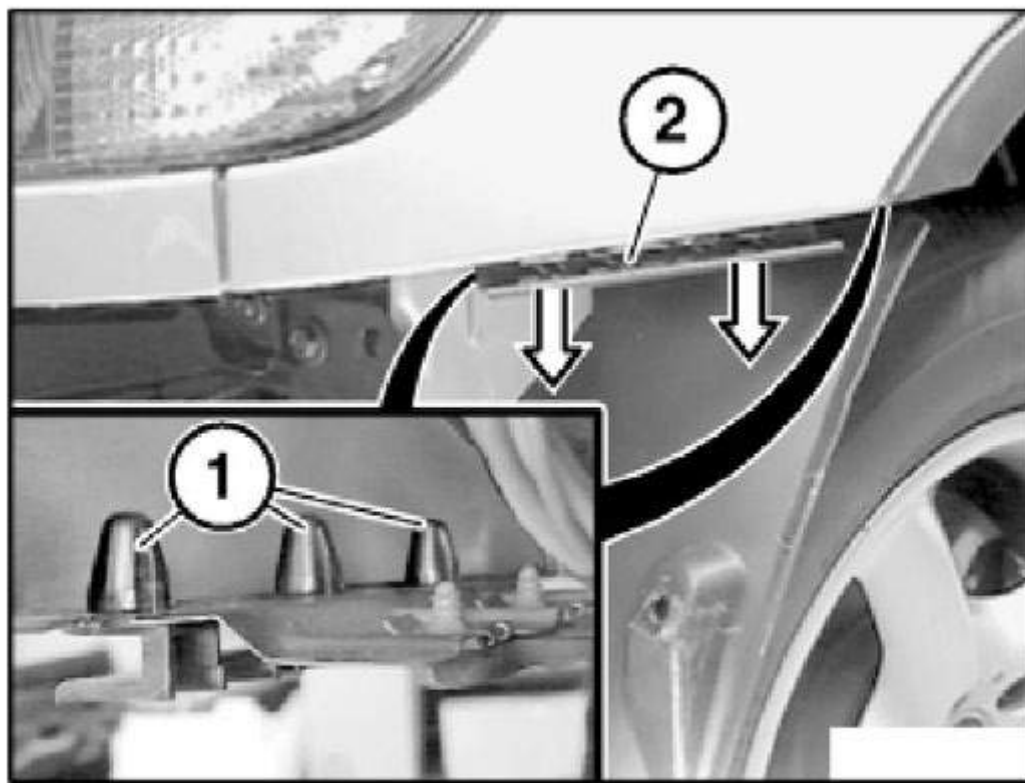
##### **Necessary Preliminary Tasks:**

Bumper trim removed.

- If necessary, remove front bumper trim. Refer to **51 11 156 REMOVING AND INSTALLING FRONT BUMPER TRIM (FROM 10/03)** or **51 11 156 REMOVING AND INSTALLING FRONT BUMPER TRIM (UP TO 10/03)** .

##### **Version Up To 10/2003:**

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

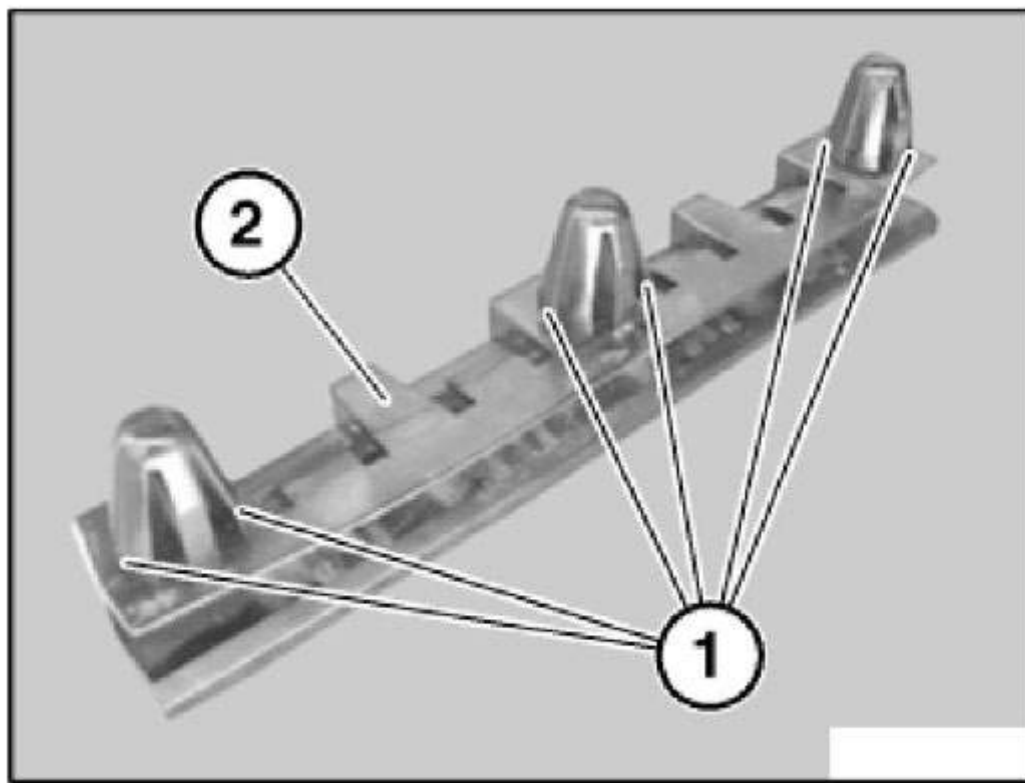


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**Fig. 34: Locating Catches On Bracket**  
Courtesy of BMW OF NORTH AMERICA, INC.

**Installation:**

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



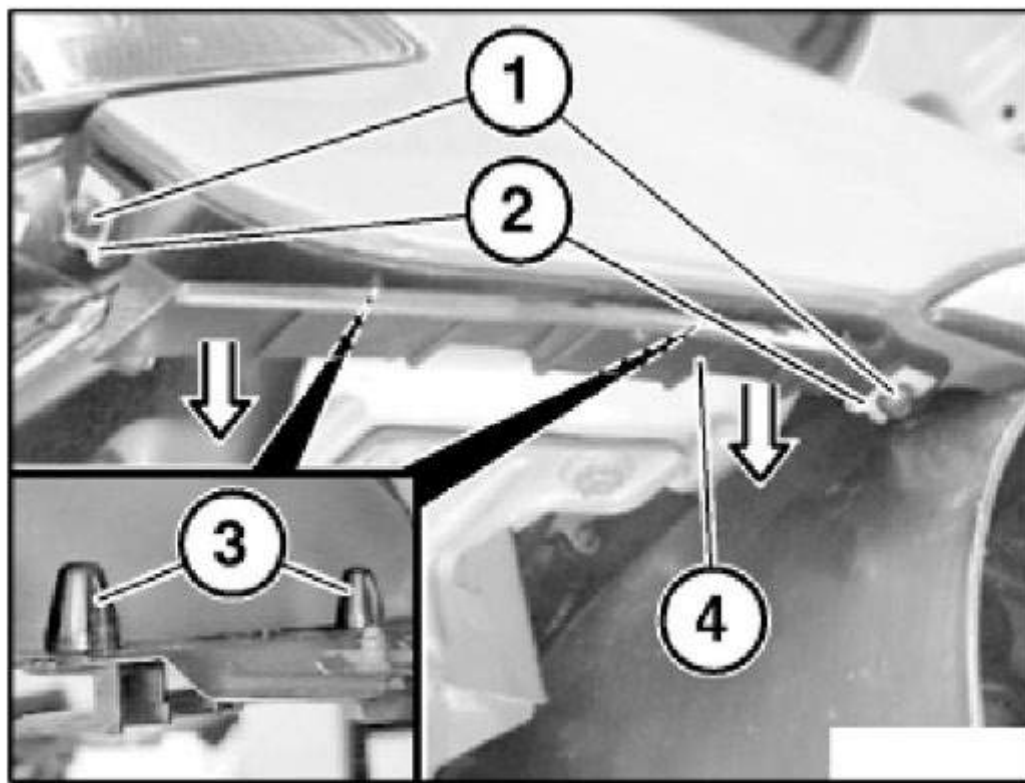
**G03255614**

**Fig. 35: Identifying 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.

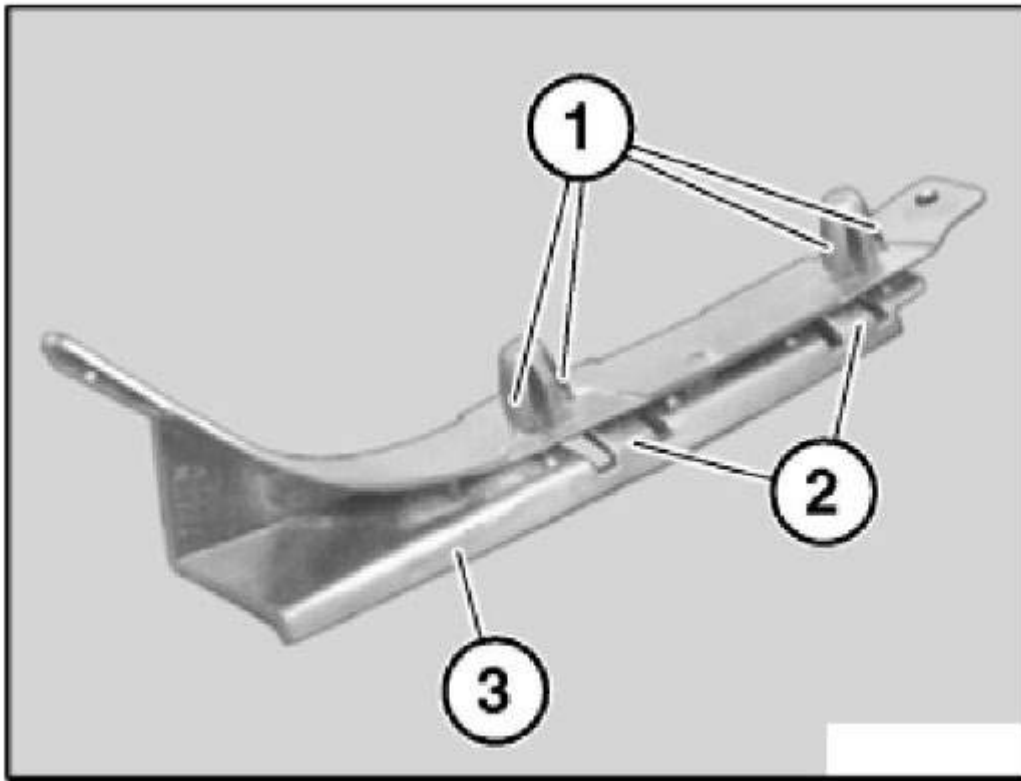


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**Fig. 36: Locating Catches On Bracket**  
Courtesy of BMW OF NORTH AMERICA, INC.

**Installation:**

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



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**Fig. 37: Identifying Catches On Bracket**  
Courtesy of BMW OF NORTH AMERICA, INC.

## **REAR BUMPER**

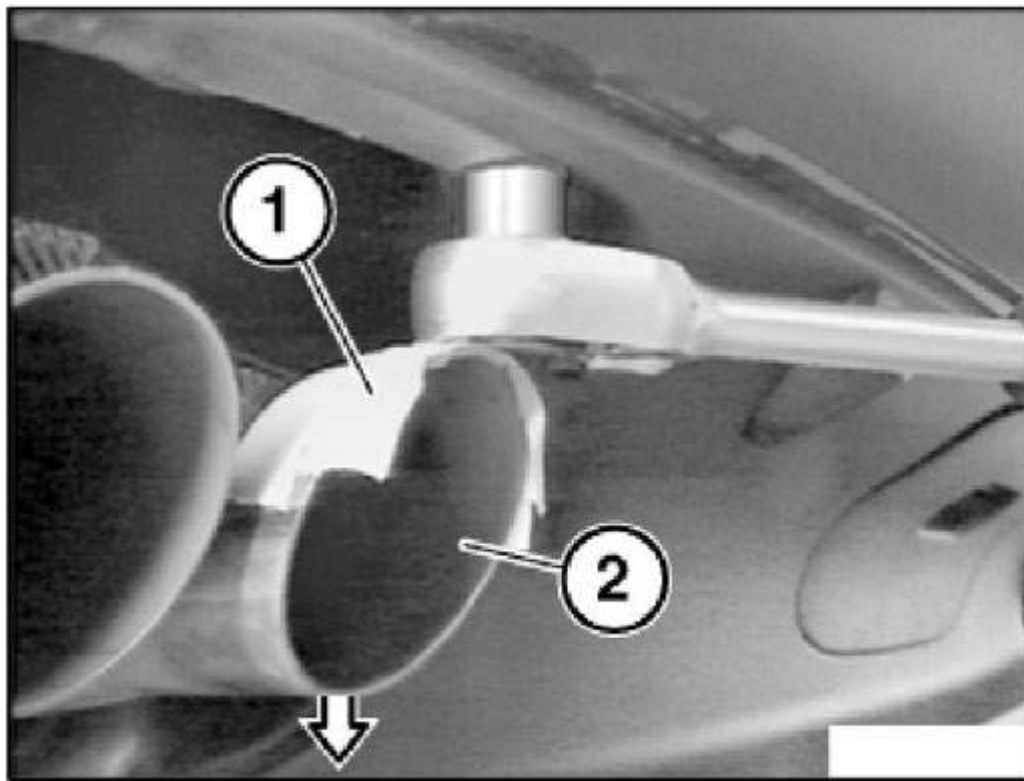
### **51 12 000 REMOVING AND INSTALLING COMPLETE REAR BUMPER**

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, (55 N.m.).



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**Fig. 38: Removing Bumper Screw**

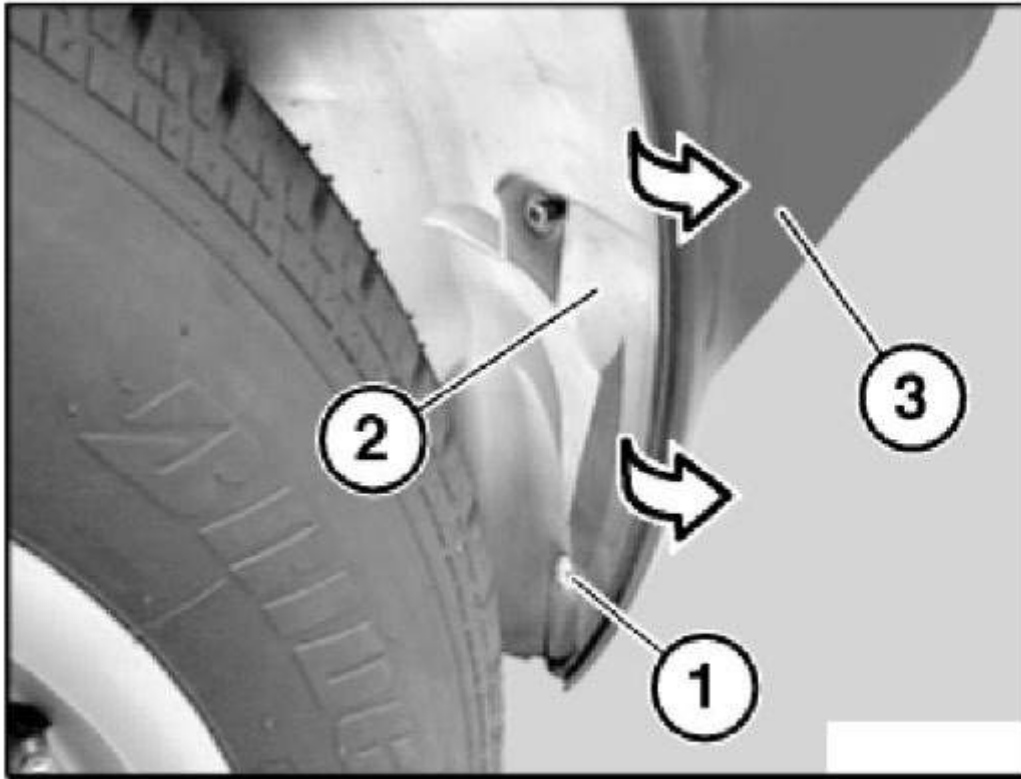
Courtesy of BMW OF NORTH AMERICA, INC.

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).



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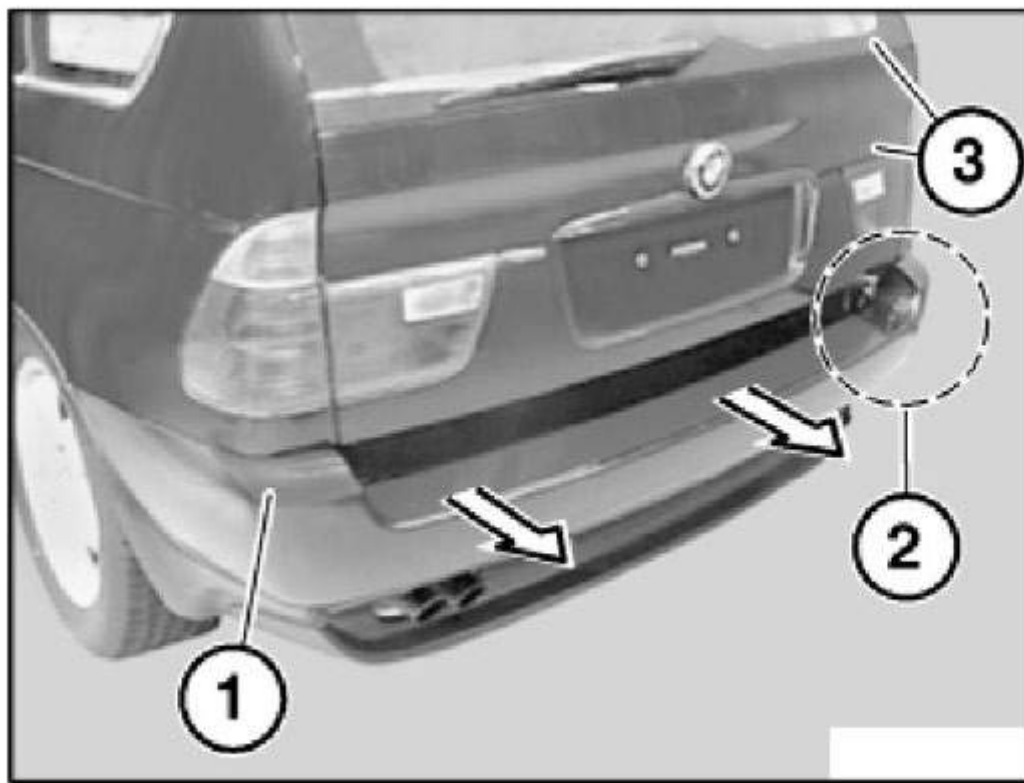
**Fig. 39: Removing Bumper From Wheel Arch Trim**  
Courtesy of BMW OF NORTH AMERICA, INC.

**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.



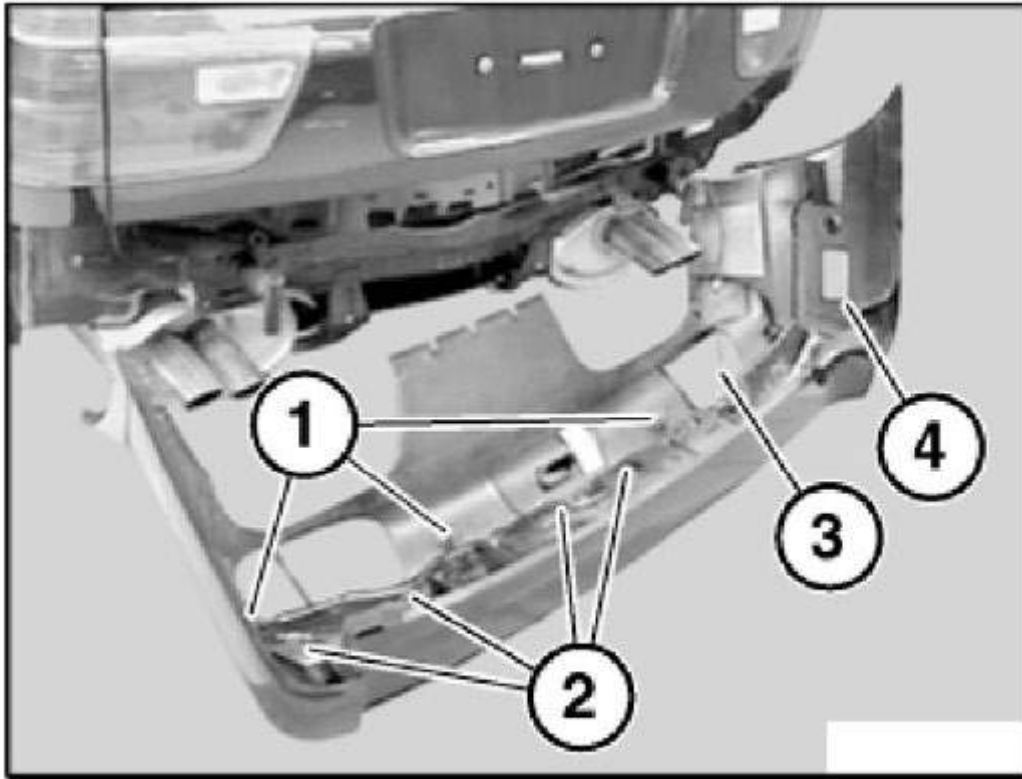
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**Fig. 40: Locating Plug Connection And Cable Holders**  
Courtesy of BMW OF NORTH AMERICA, INC.

**Version with Park Distance Control (PDC):**

Disconnect remaining plug connections (1).

Unclip all cable holders (2).



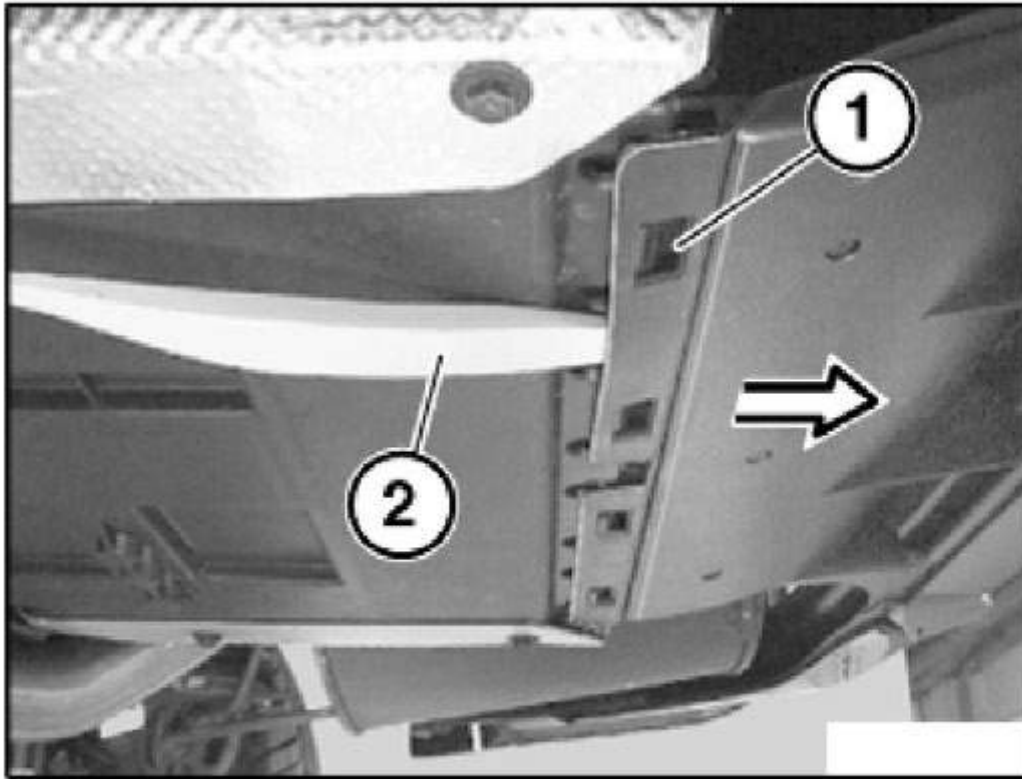
G03255620

**Fig. 41: Identifying Plug Connection And Cable Holders**  
Courtesy of BMW OF NORTH AMERICA, INC.

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

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

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

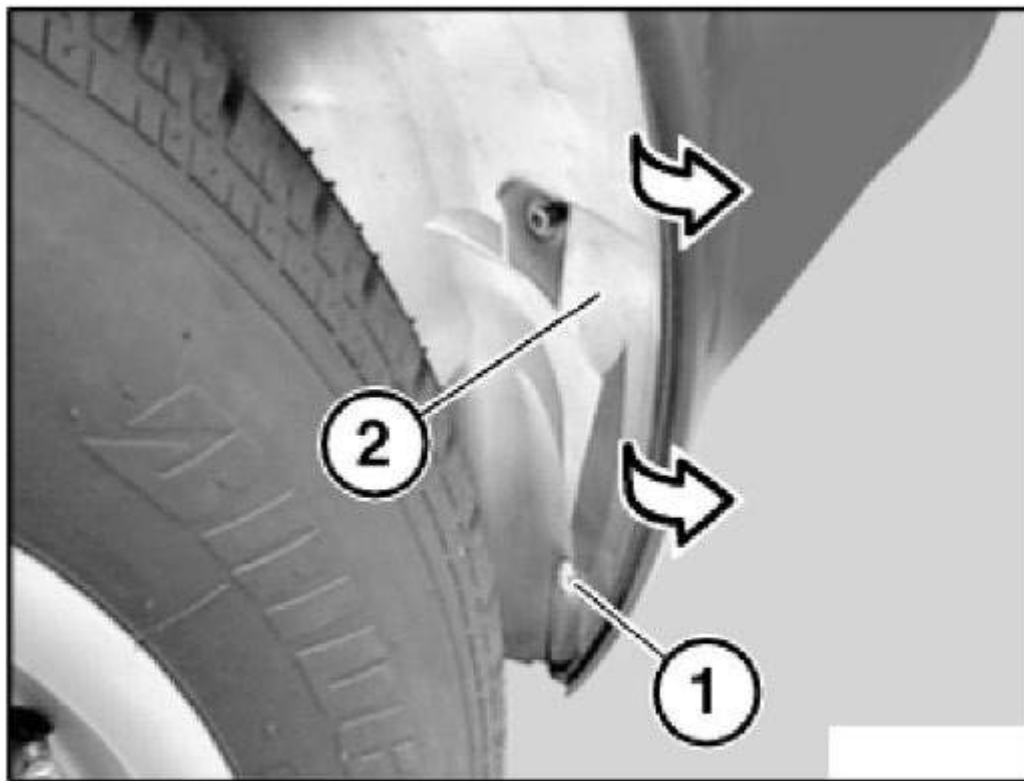


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**Fig. 42: Removing Cover With Assembly Wedge**  
Courtesy of BMW OF NORTH AMERICA, INC.

Release screws (1) on left and right.

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



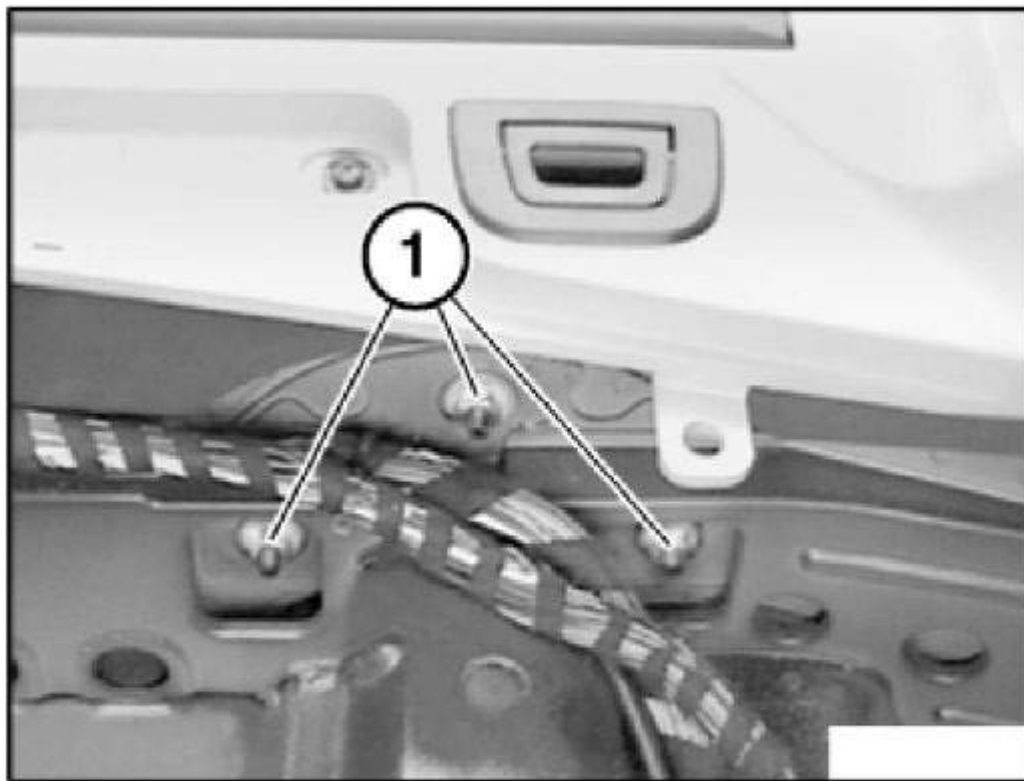
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**Fig. 43: Lifting Out Wheel Arch Trim On Left And Right**  
Courtesy of BMW OF NORTH AMERICA, INC.

Release nuts (1) on left and right.

**Installation:**

Observe tightening torque, (24 N.m.).



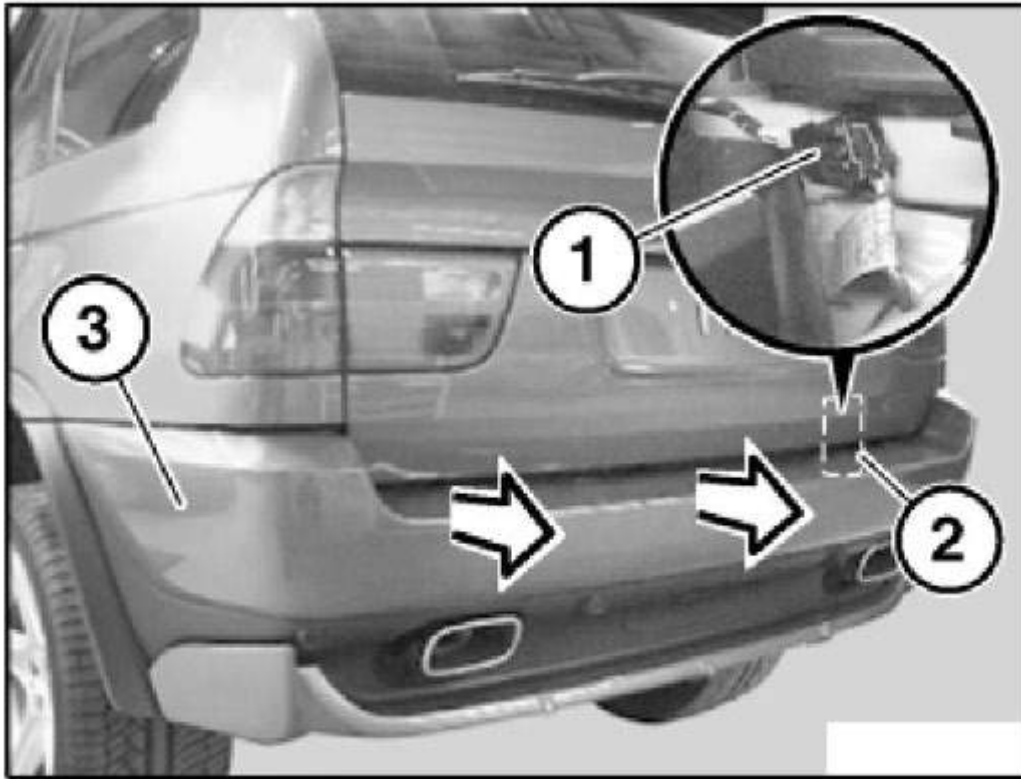
G03255623

**Fig. 44: Locating 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).



G03255624

**Fig. 45: Disconnecting Plug Connection**  
Courtesy of BMW OF NORTH AMERICA, INC.

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

Remove bumper (3) in direction of arrow.

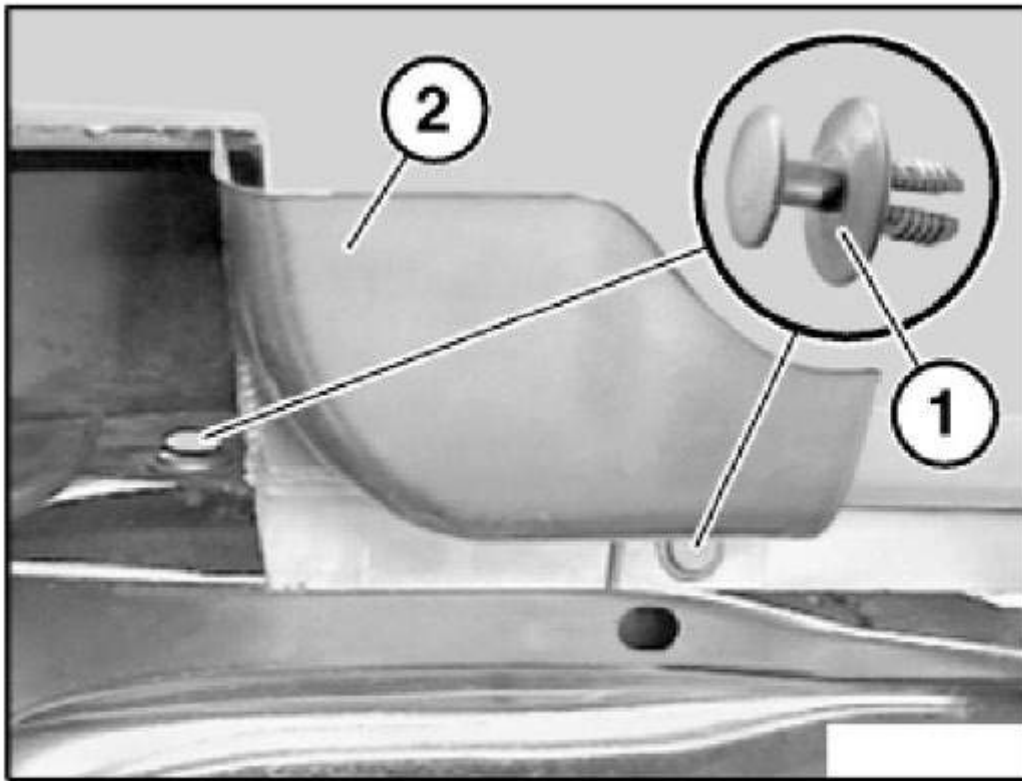
## 51 12 001 REPLACING REAR BUMPER

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

Remove complete rear bumper. Refer to **51 12 000 REMOVING AND INSTALLING COMPLETE REAR BUMPER** .

Release expansion rivets (1).

Remove cover (2) on left/right.

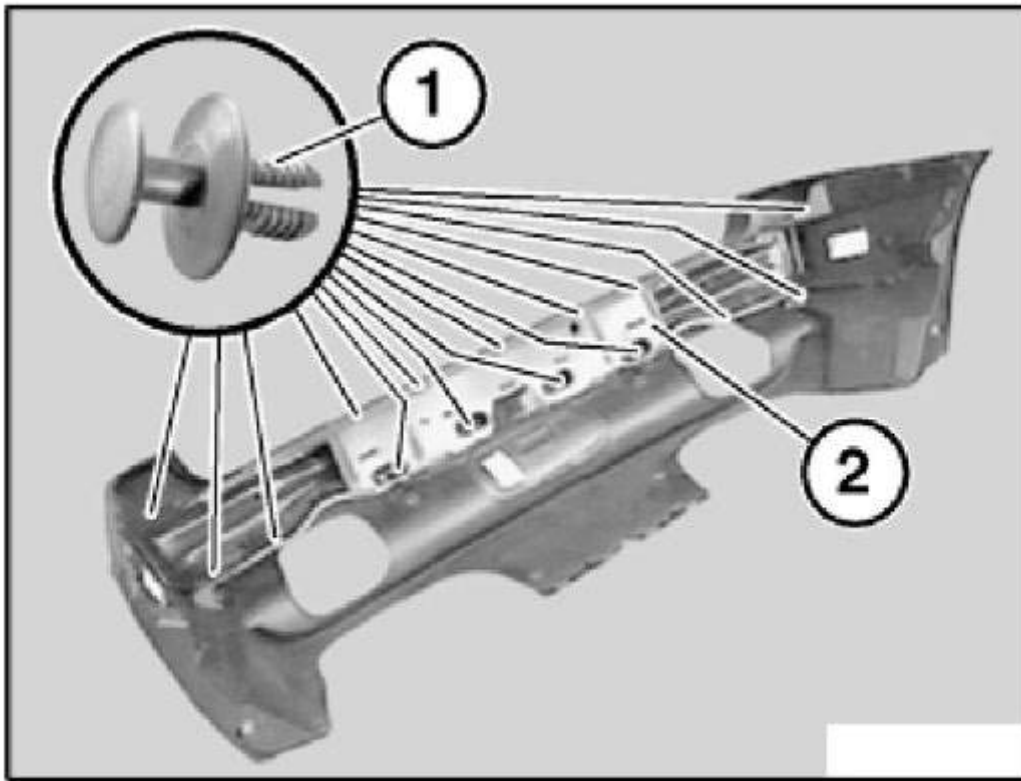


G03255625

**Fig. 46: View Of Expansion Rivets**

Courtesy of BMW OF NORTH AMERICA, INC.

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



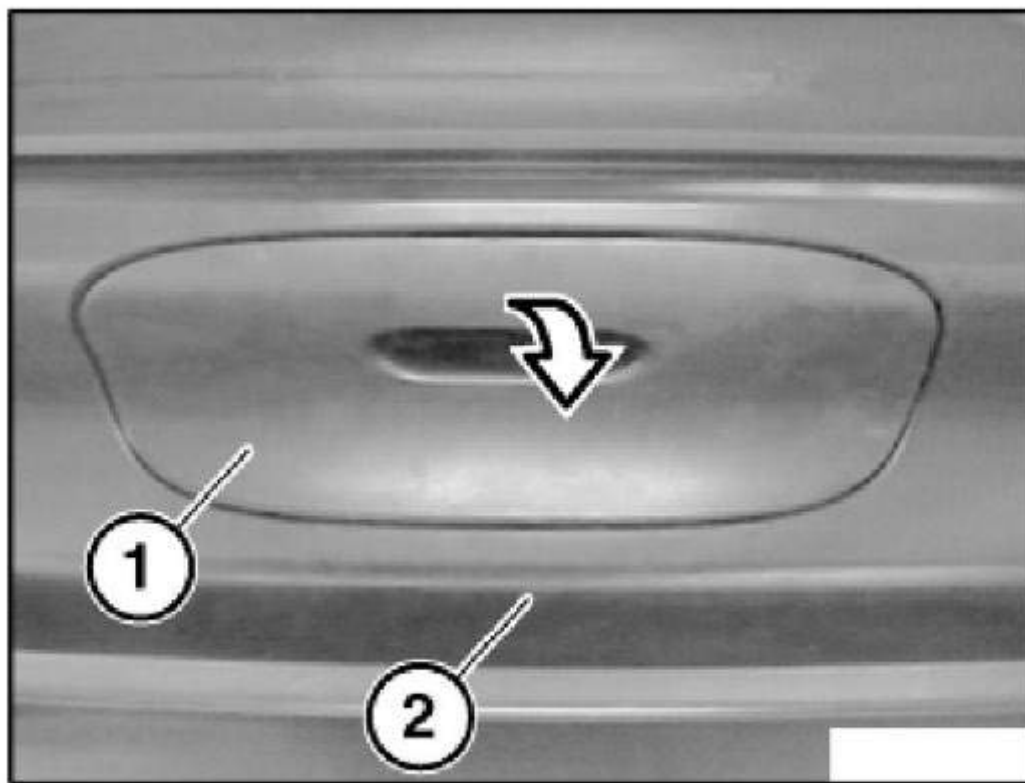
G03255626

**Fig. 47: Releasing Expansion Rivets From Bumper Center Section**  
Courtesy of BMW OF NORTH AMERICA, INC.

**NOTE:** The work steps for "Replacing rear bumper center section (carrier)" ends here.

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

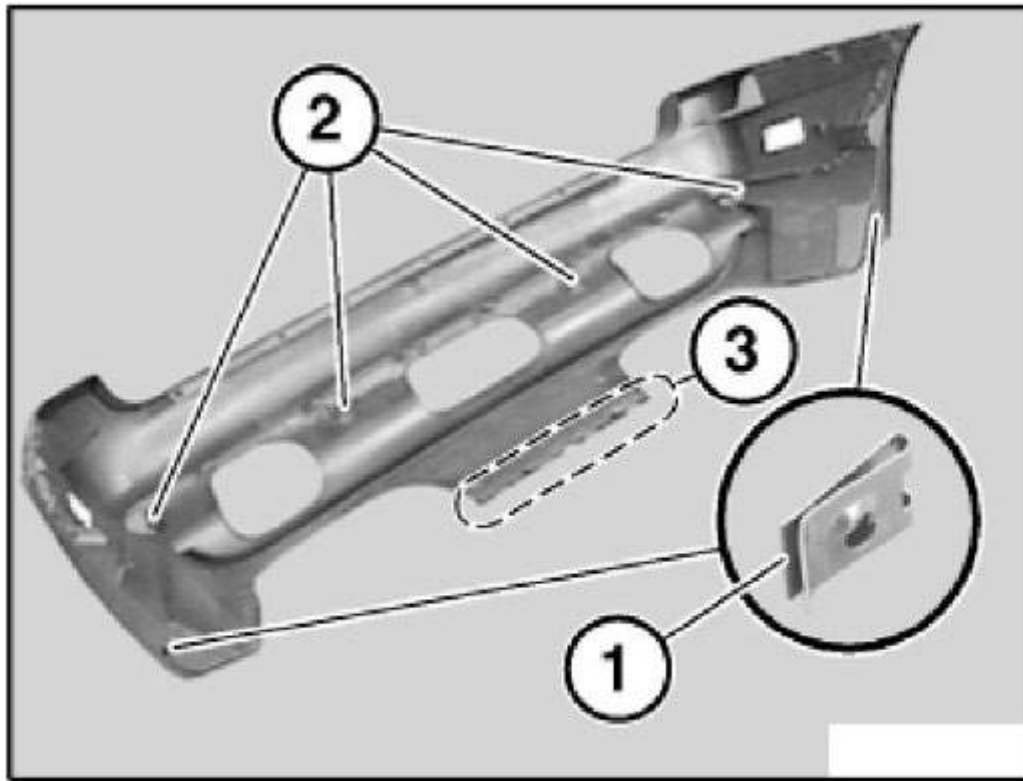
Unclip flap (1) on handle from bumper (2).



G03255627

**Fig. 48: Removing Flap On Handle From Bumper**  
Courtesy of BMW OF NORTH AMERICA, INC.

Remove speed nuts (1).



G03255628

**Fig. 49: Identifying Speed Nuts**

Courtesy of BMW OF NORTH AMERICA, INC.

**Version With Park Distance Control (PDC):**

If necessary, remove all rear ultrasonic transducers. Refer to **66 20 540 REMOVING AND INSTALLING/REPLACING A REAR ULTRASONIC TRANSDUCER (PARK DISTANCE CONTROL)** .

Mounts must not be damaged in area (2).

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

This job is described under:

Replacing rear bumper trim (HP). Refer to **51 12 157 REPLACING REAR BUMPER TRIM (HP)** .

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

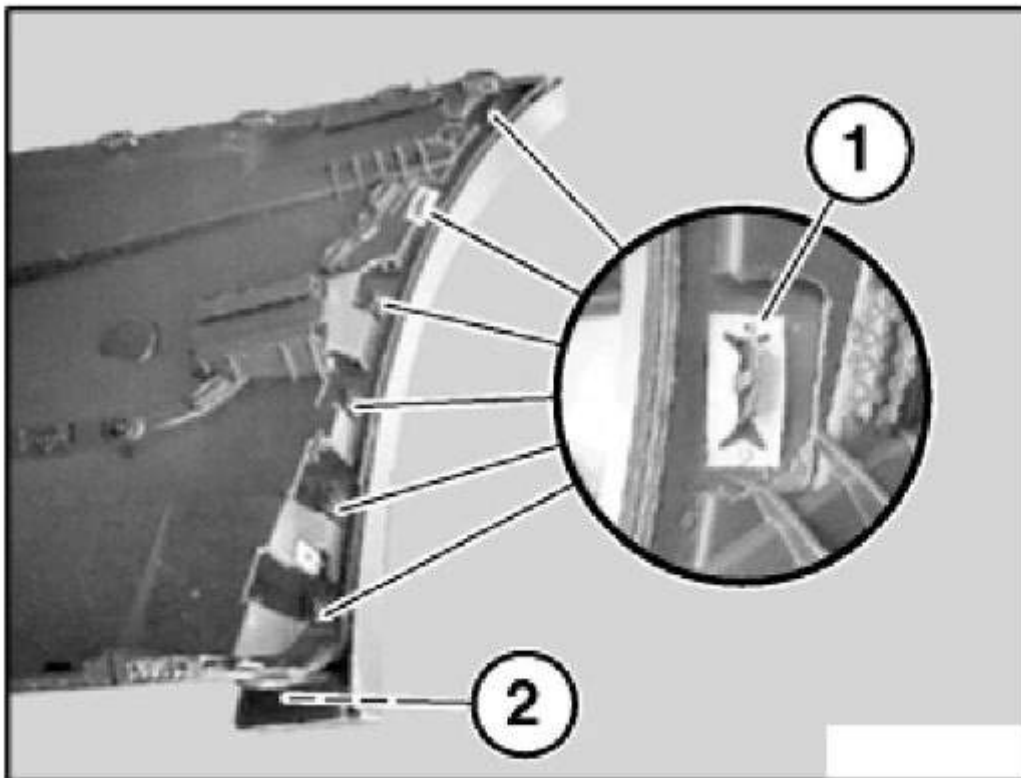
This job is described under:

Replacing rear bumper trim (HP). **51 12 157 REPLACING REAR BUMPER TRIM (HP)** .

**51 12 157 REPLACING REAR BUMPER TRIM (HP)**

Release spring clips (1) on left and right.

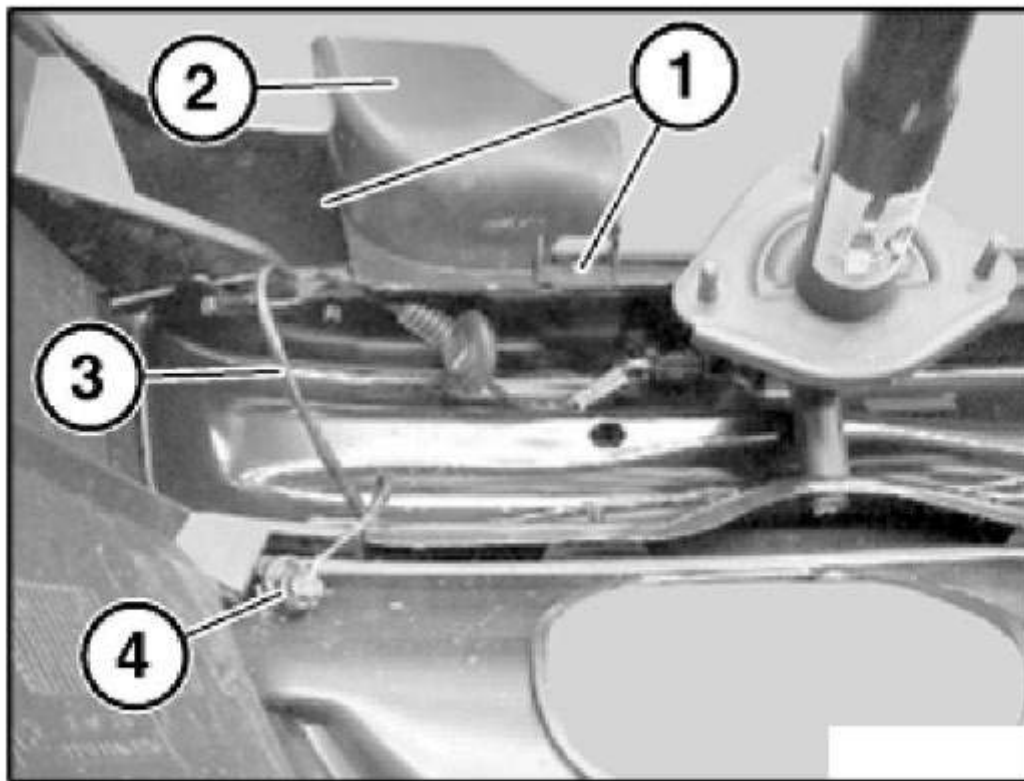
Release retaining element (2) on left and right and remove covers.



G03255629

**Fig. 50: Locating Spring Clips On Left And Right**  
Courtesy of BMW OF NORTH AMERICA, INC.

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



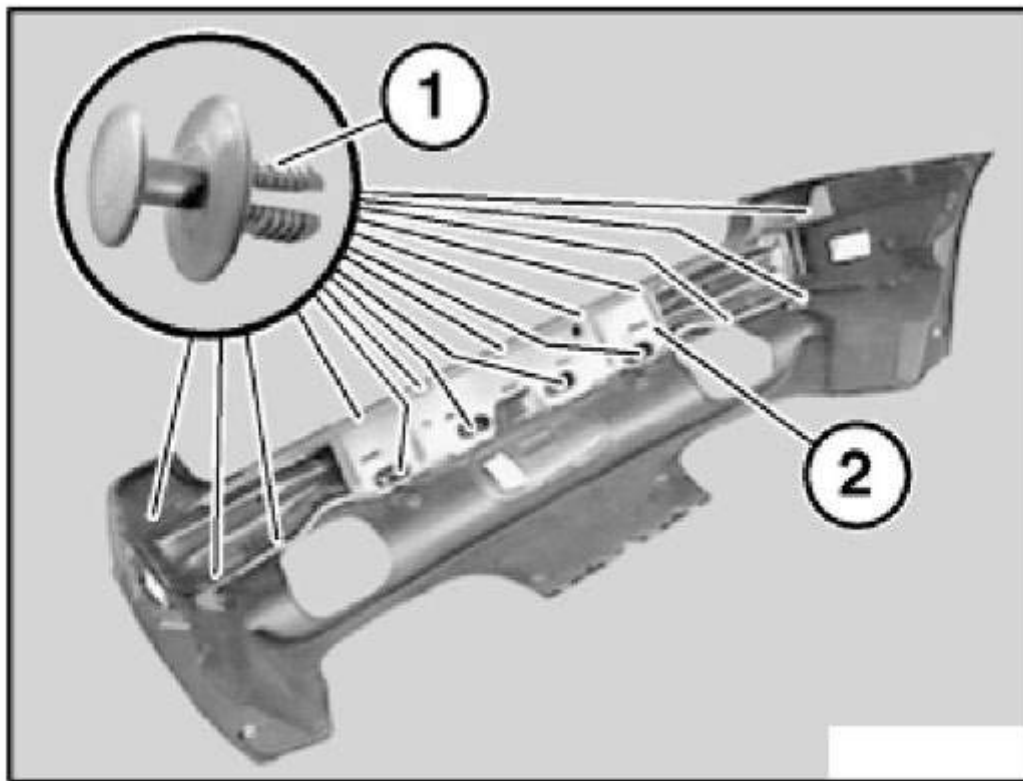
G03255630

**Fig. 51: Identifying Expansion Rivets And Cover**  
Courtesy of BMW OF NORTH AMERICA, INC.

**Version With PDC Option:**

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

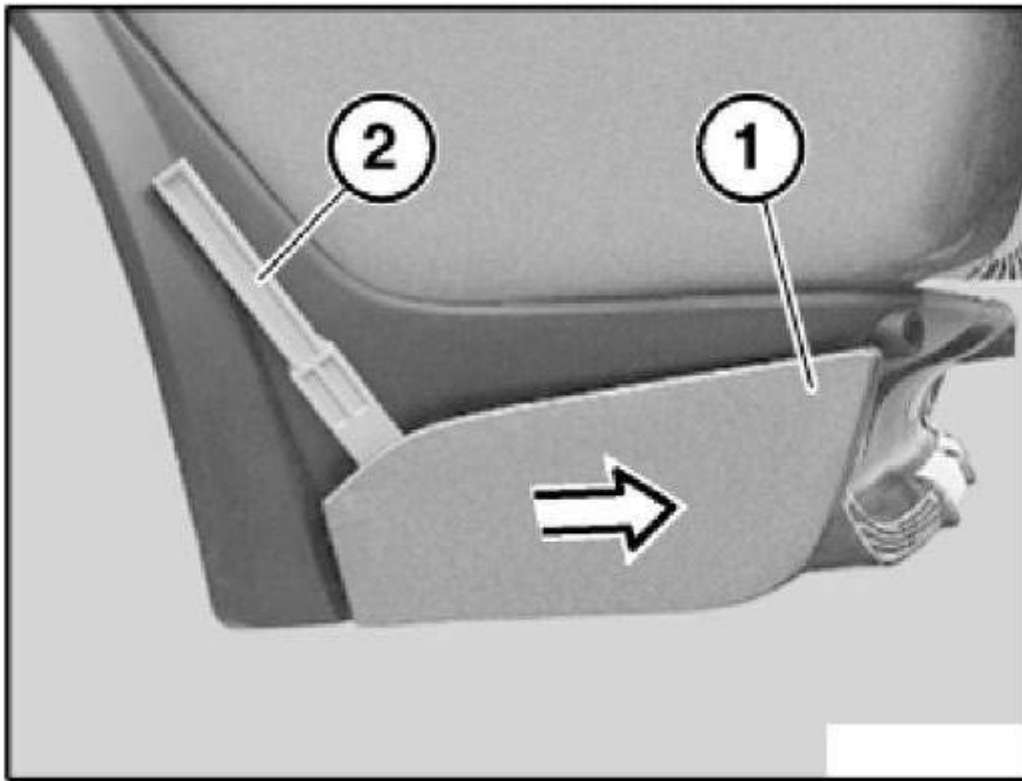
Release expansion rivets (1) and remove center section of bumper (2).



G03255631

**Fig. 52: View Of Expansion Rivets In Center Section Of Bumper**  
Courtesy of BMW OF NORTH AMERICA, INC.

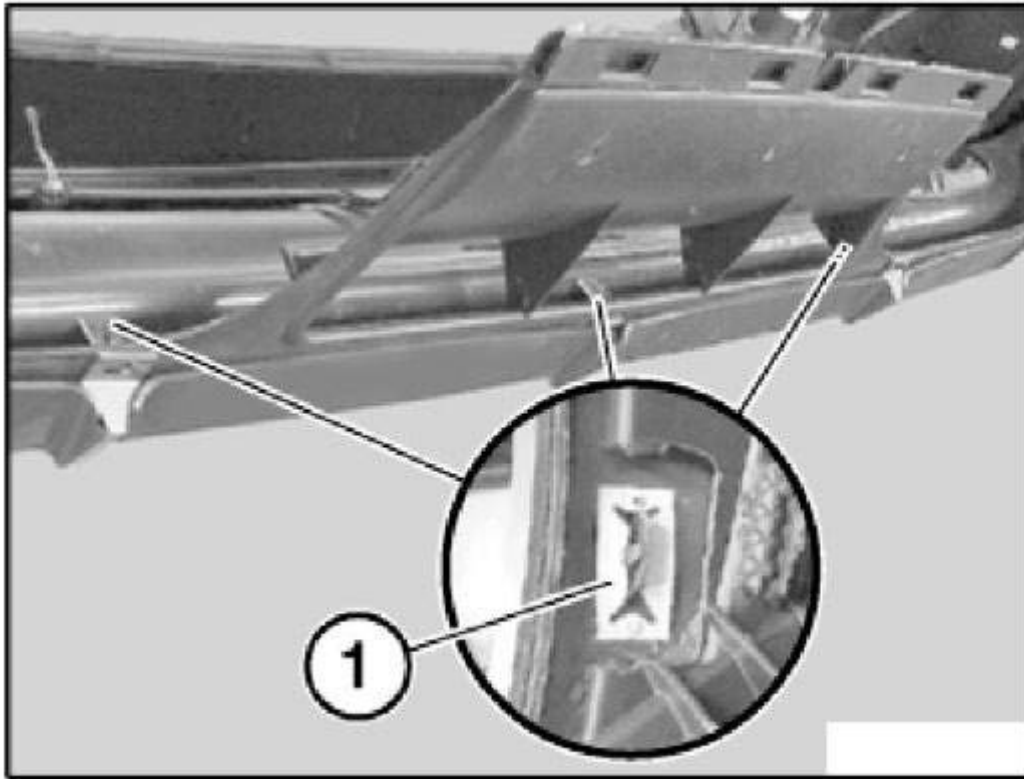
Unclip cover (1) on left and right with assembly wedge (2) and remove in direction of arrow.



G03255632

**Fig. 53: Using Assembly Wedge To Remove Cover**  
Courtesy of BMW OF NORTH AMERICA, INC.

Release spring clips (1).



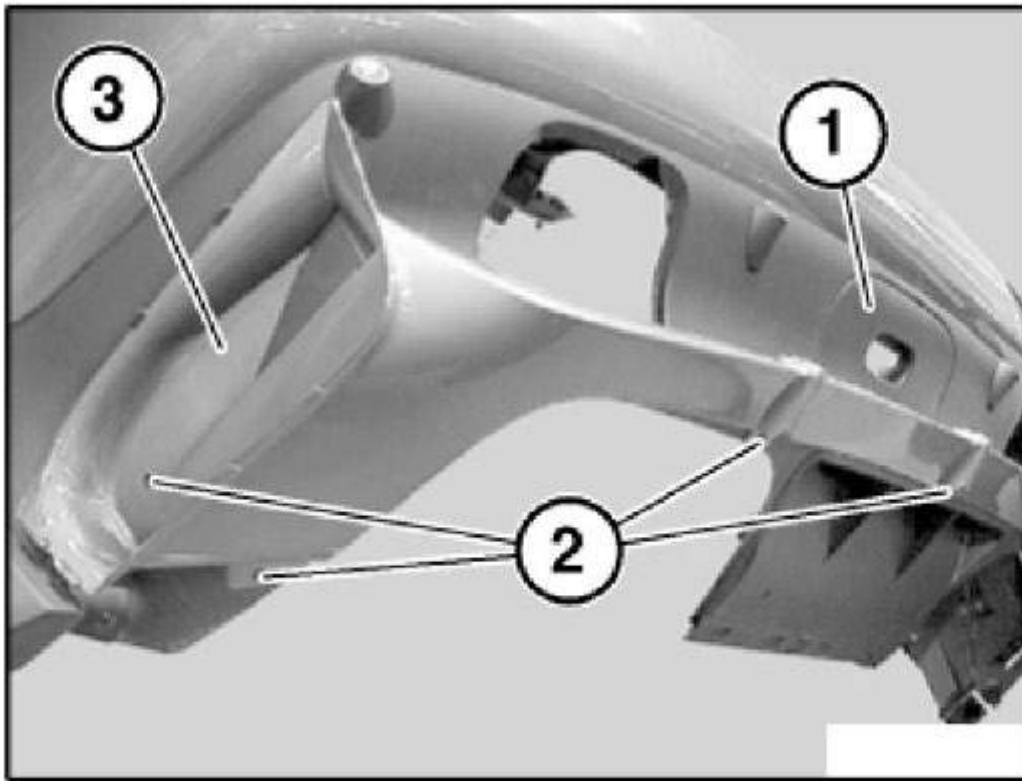
G03255633

**Fig. 54: Locating 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).



G03255634

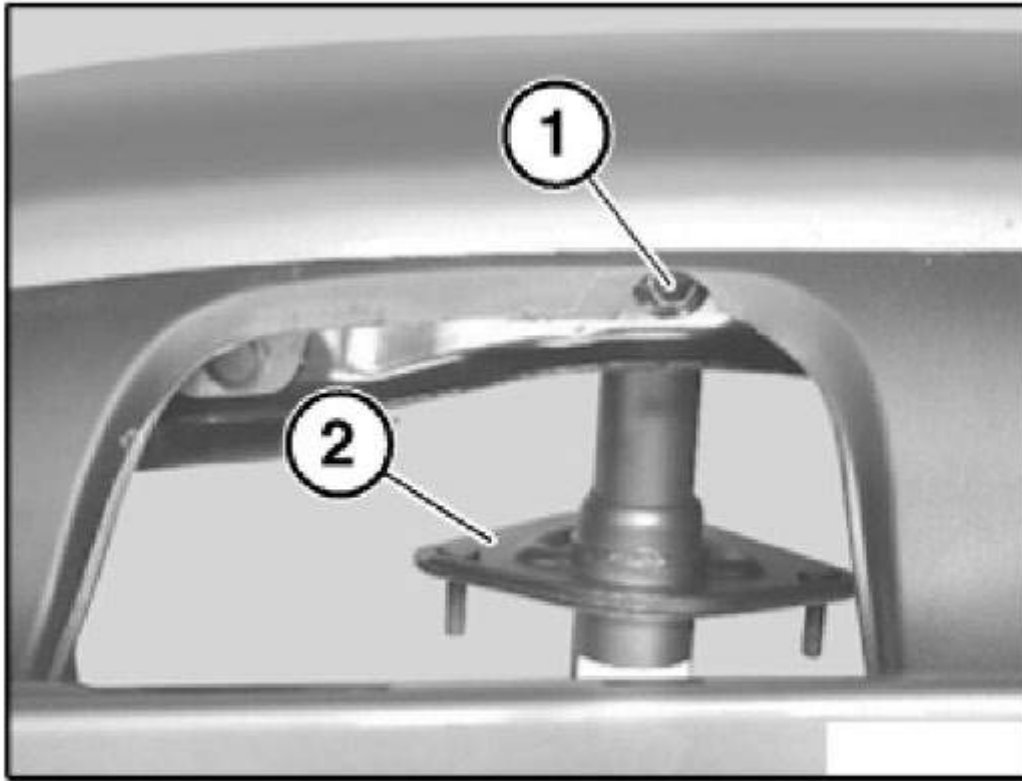
**Fig. 55: Identifying Bumper Trim Lower Section Retaining Elements**  
Courtesy of BMW OF NORTH AMERICA, INC.

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

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

#### **Installation:**

Observe tightening torque, (55 N.m.).



G03255635

**Fig. 56: Identifying Screw And Shock Absorber**  
Courtesy of BMW OF NORTH AMERICA, INC.

## **51 12 742 REPLACING ONE IMPACT ABSORBER FOR REAR BUMPER**

**(Bumper Removed)**

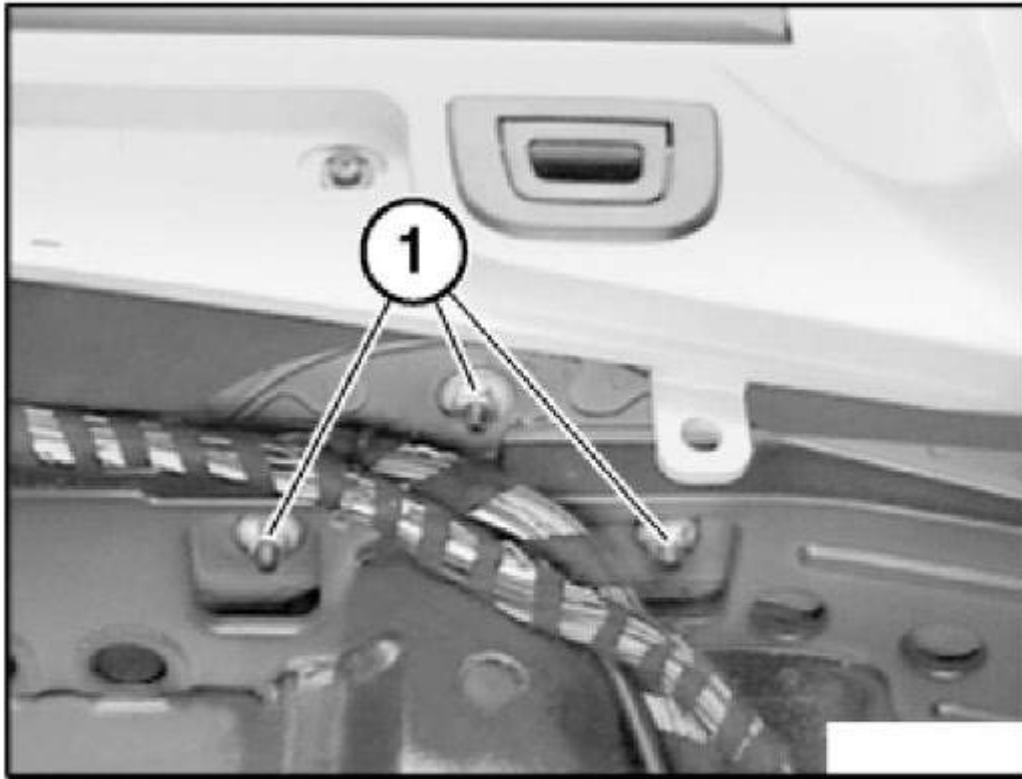
If necessary, remove rear bumper. Refer to **51 12 000 REMOVING AND INSTALLING COMPLETE REAR BUMPER** .

Remove support on side member, refer to Removing trim for tail panel, top. Refer to **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, (24 N.m.).



G03255636

**Fig. 57: Identifying Screw And Shock Absorber**  
Courtesy of BMW OF NORTH AMERICA, INC.

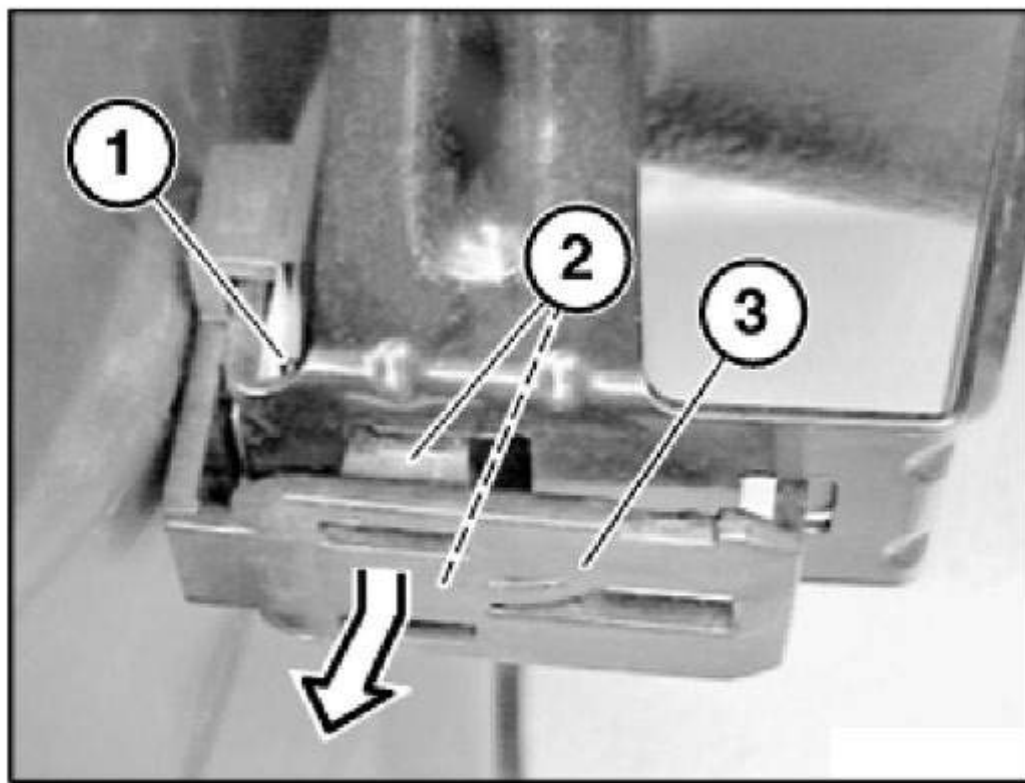
## **51 12 801 REPLACING BRACKET FOR REAR BUMPER AT LEFT OR RIGHT**

**(Bumper Removed)**

If necessary, remove rear bumper completely. Refer to **51 12 000 REMOVING AND INSTALLING COMPLETE REAR BUMPER**

Release screw (1) on wheel arch.

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

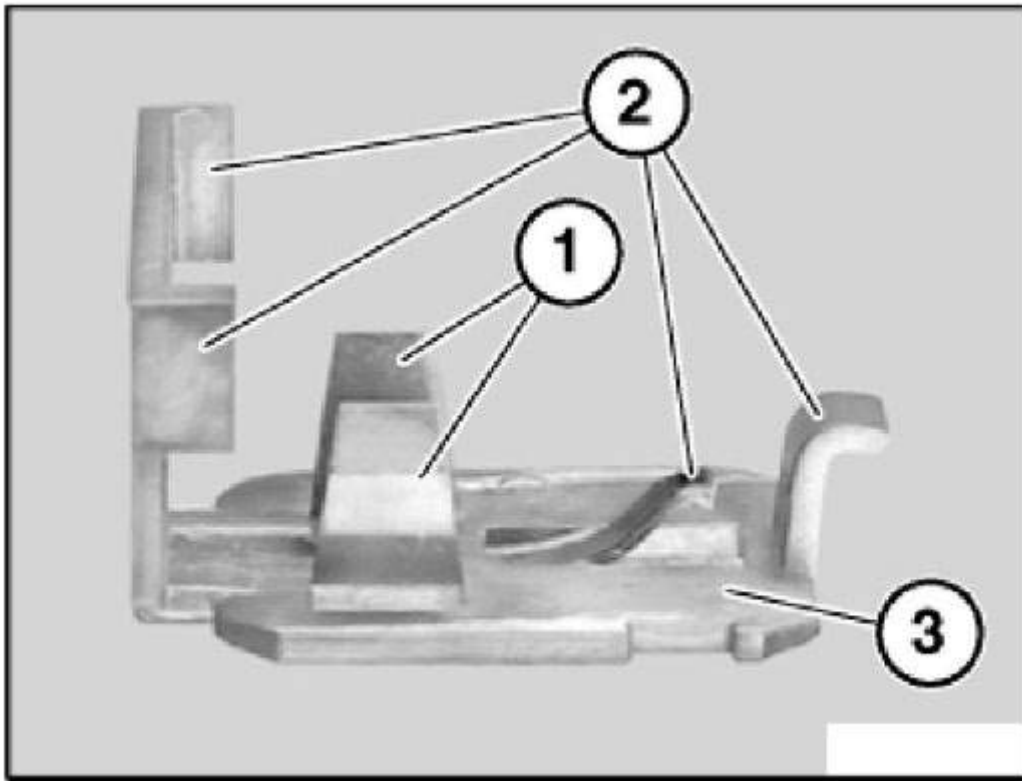


G03255637

**Fig. 58: Locating Catches On Holder**  
Courtesy of BMW OF NORTH AMERICA, INC.

**Installation:**

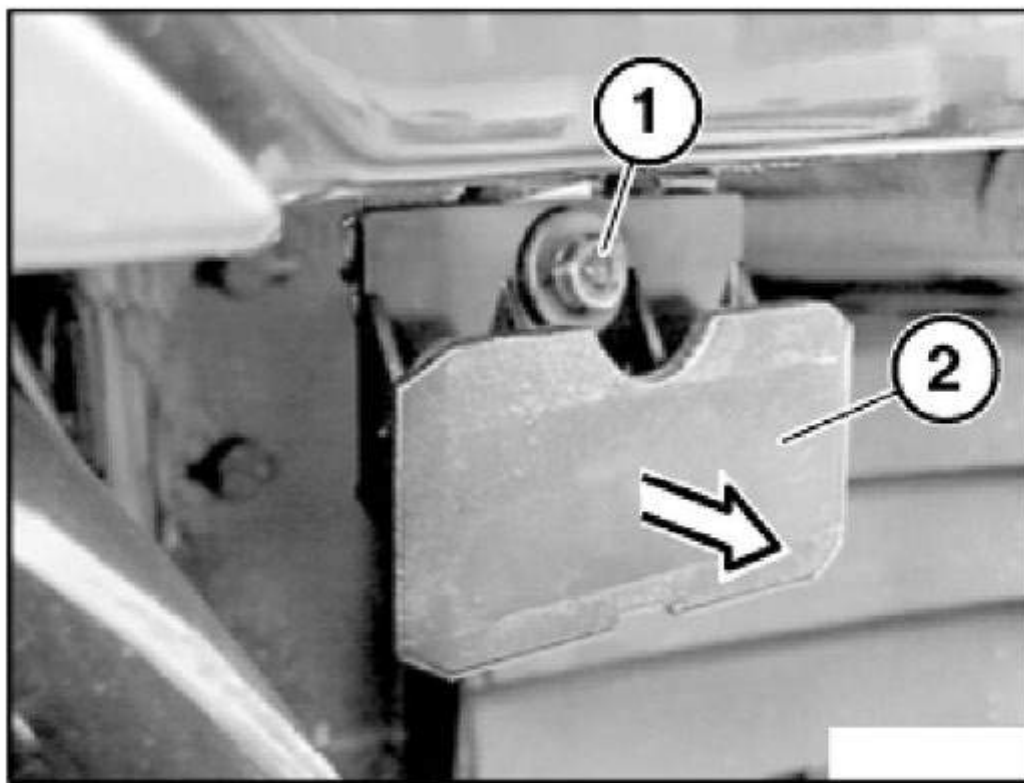
Catches (1) and guides (2) must not be damaged.



G03255638

**Fig. 59: Identifying Catches And Guides**  
Courtesy of BMW OF NORTH AMERICA, INC.

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

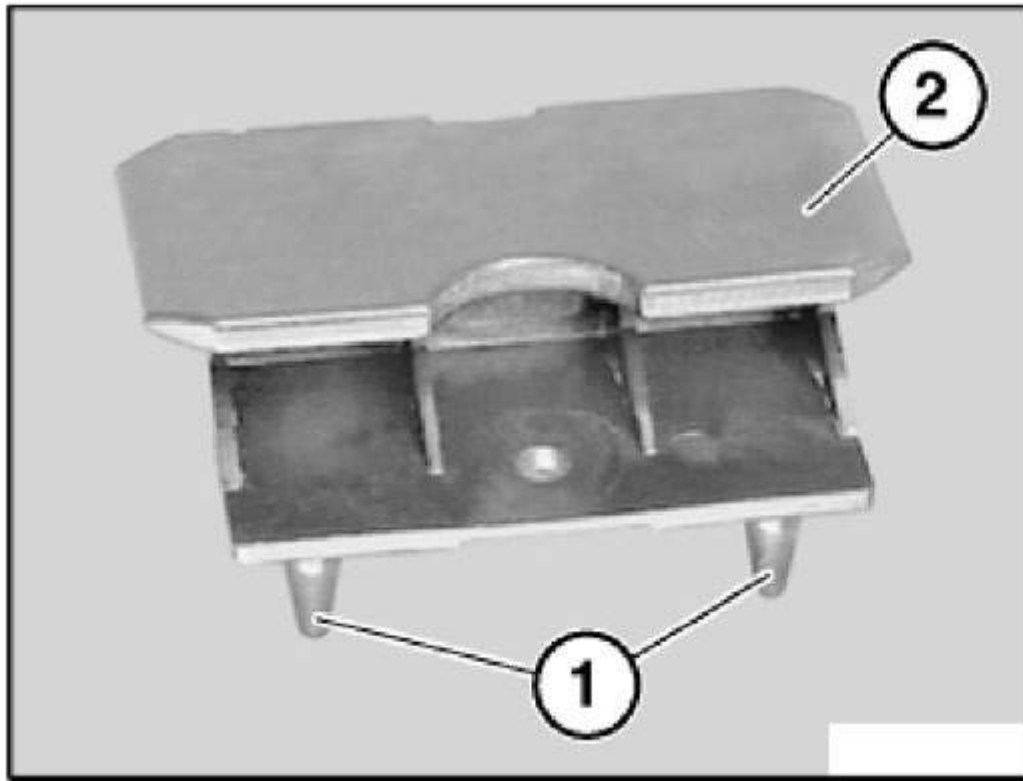


G03255639

**Fig. 60: Releasing Screw And Removing Holder**  
Courtesy of BMW OF NORTH AMERICA, INC.

**Installation:**

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



G03255640

**Fig. 61: View Of Guides On Holder**

Courtesy of BMW OF NORTH AMERICA, INC.

## **TRIM, COVERS, HANDLE TRIM**

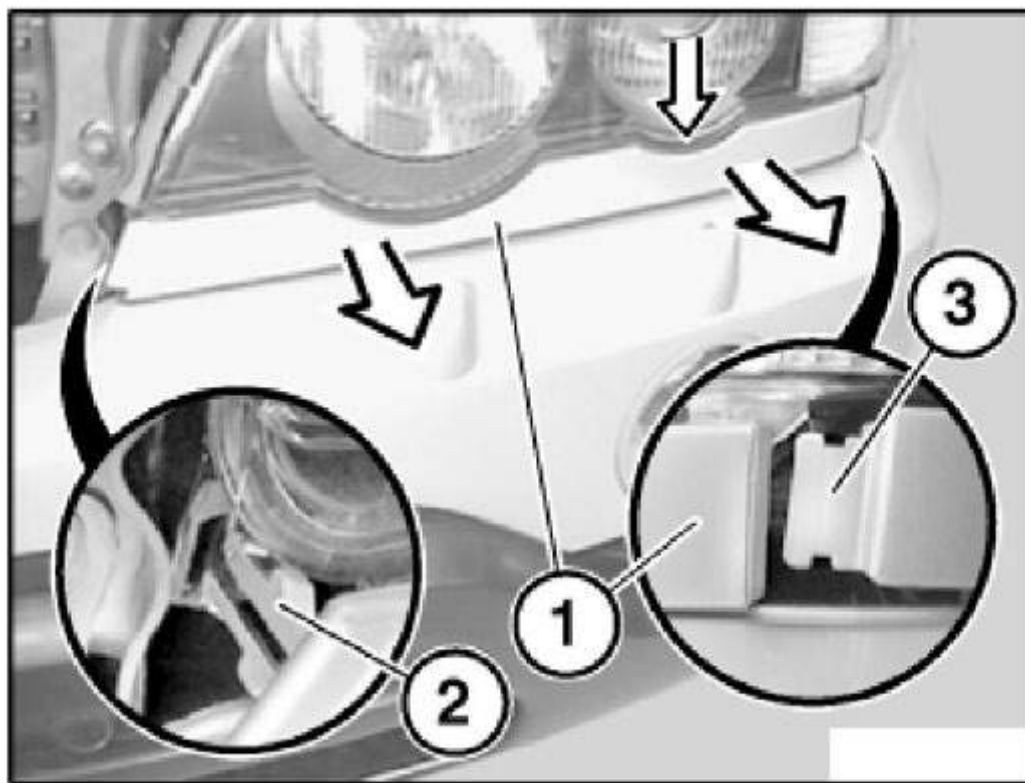
### **51 13 065 REMOVING AND INSTALLING OR REPLACING FINISHER ON LEFT OR RIGHT HEADLIGHT HOUSING**

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.



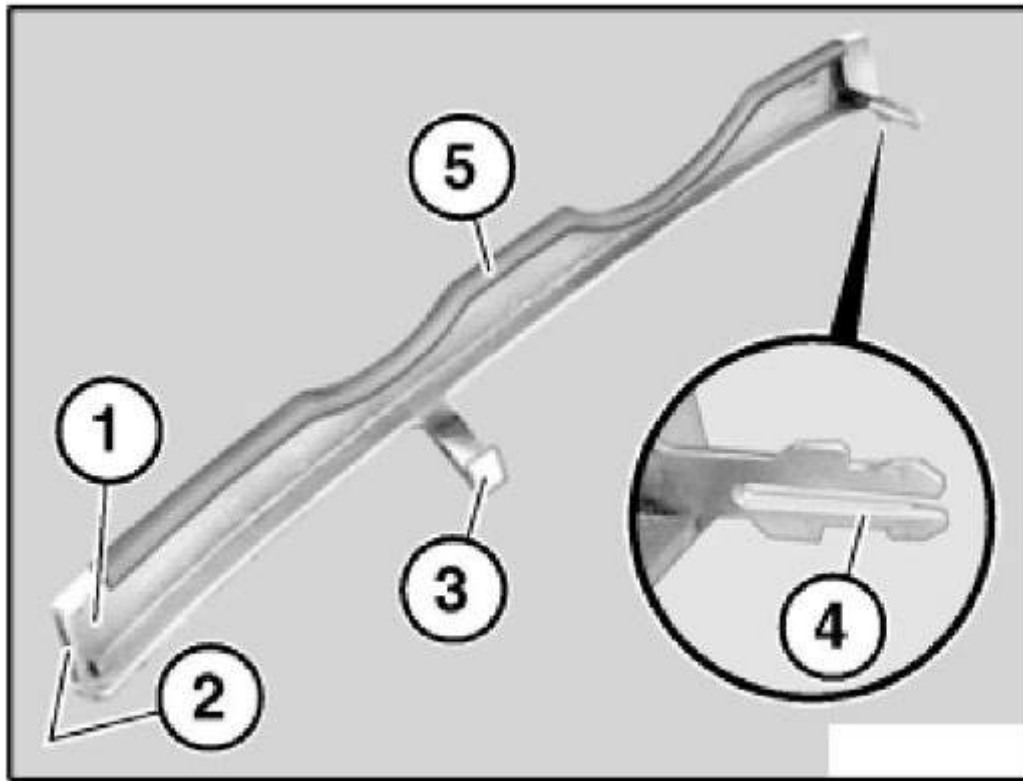
G03255641

**Fig. 62: Locating Clip On Inside Of Trim**  
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.



G03255642

**Fig. 63: Identifying Seal On Trim**

Courtesy of BMW OF NORTH AMERICA, INC.

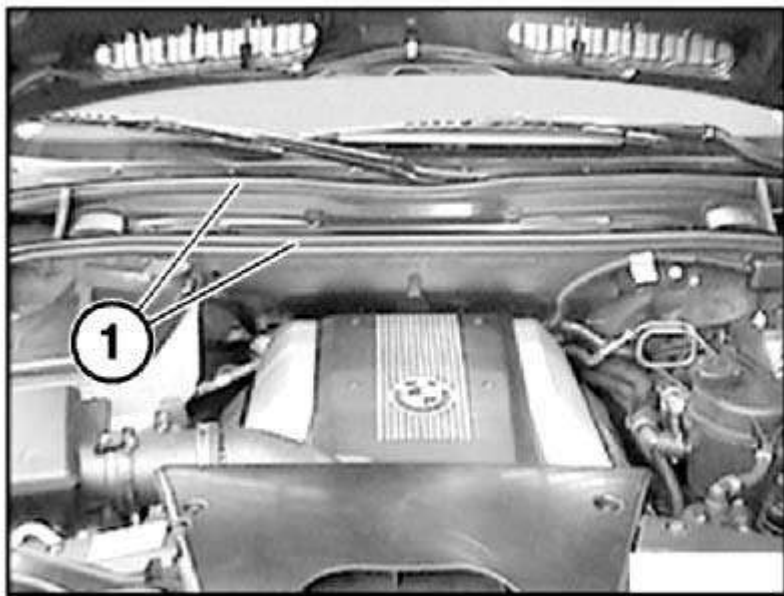
### **51 13 115 REMOVING AND INSTALLING/REPLACING COWL PANEL COVER**

Remove both windshield wiper arms. Refer to **61 61 100 REMOVING AND INSTALLING/REPLACING BOTH WINDSHIELD WIPER ARMS** .

Detach seals (1).

## 2001 BMW X5 30i

2001-2003 ACCESSORIES AND EQUIPMENT Exterior/Interior Trim - Repair Instructions - X5 (3.0i ) E53

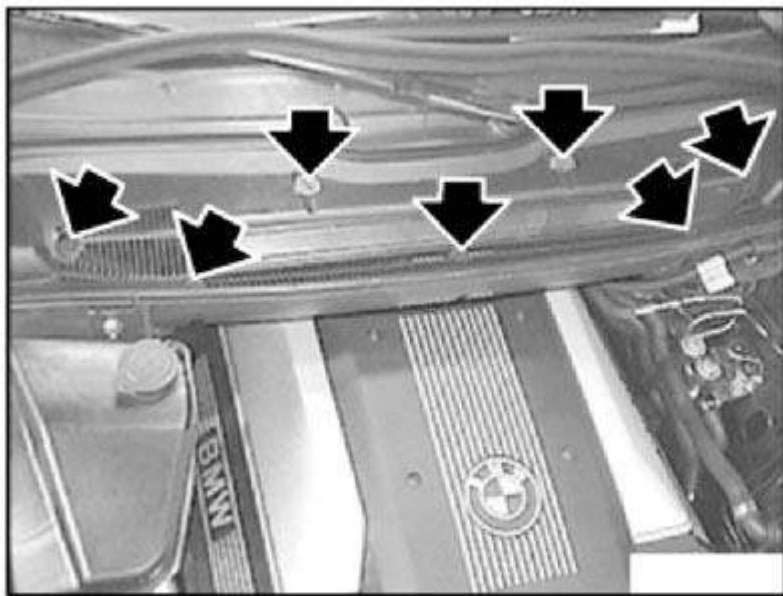


G03255643

### **Fig. 64: Detaching Seals**

**Courtesy of BMW OF NORTH AMERICA, INC.**

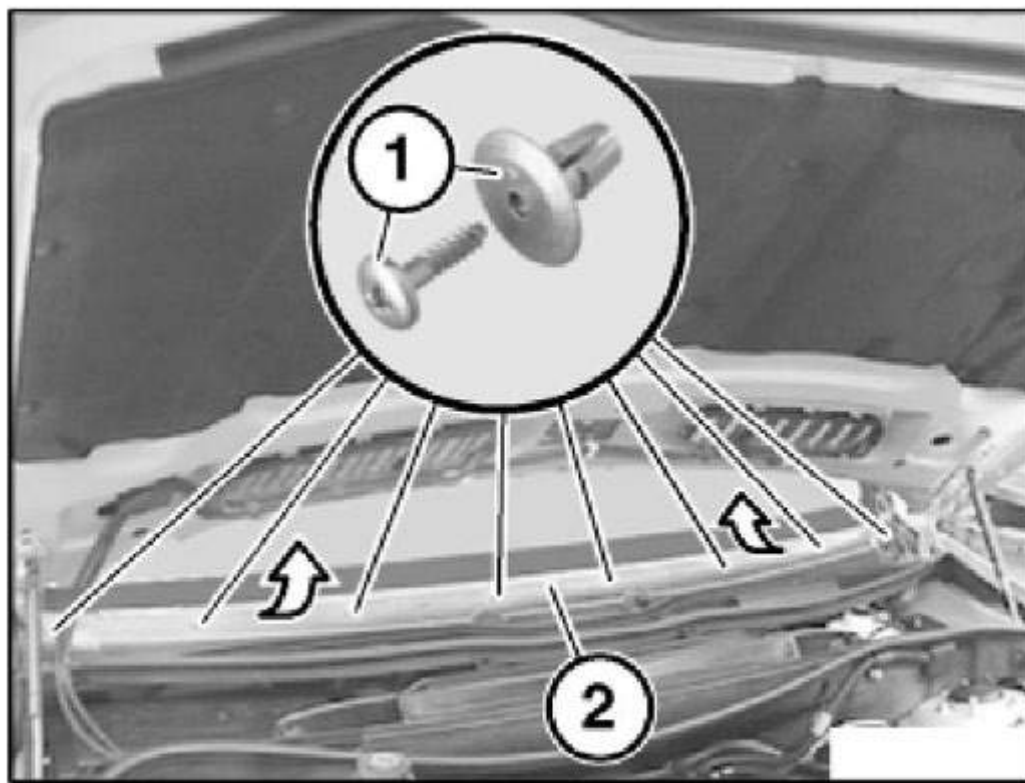
Turn tommy bar through 90° and lift off cover.



G03255644

**Fig. 65: Turning Tommy Bar 90 Degrees And Lifting Off Cover**  
Courtesy of BMW OF NORTH AMERICA, INC.

Release expansion rivets (1).



G03255645

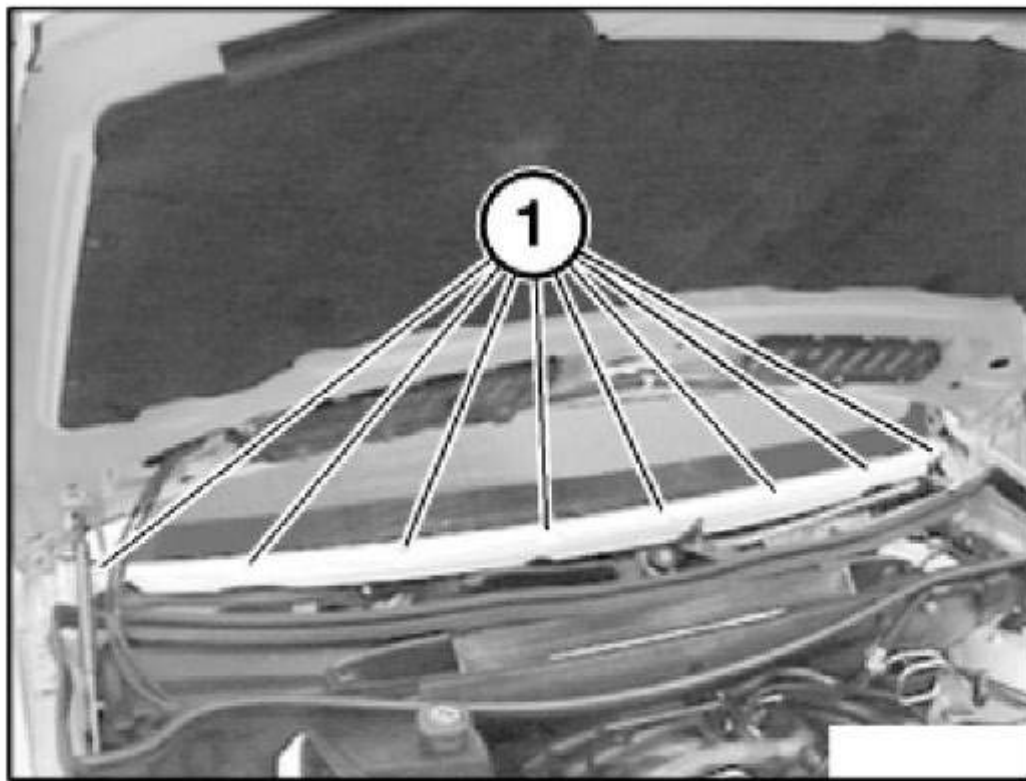
**Fig. 66: Locating Expansion Rivets**

Courtesy of BMW OF NORTH AMERICA, INC.

Remove cover (2) for cowl panel.

**Installation:**

If necessary, replace defective grommets (1).



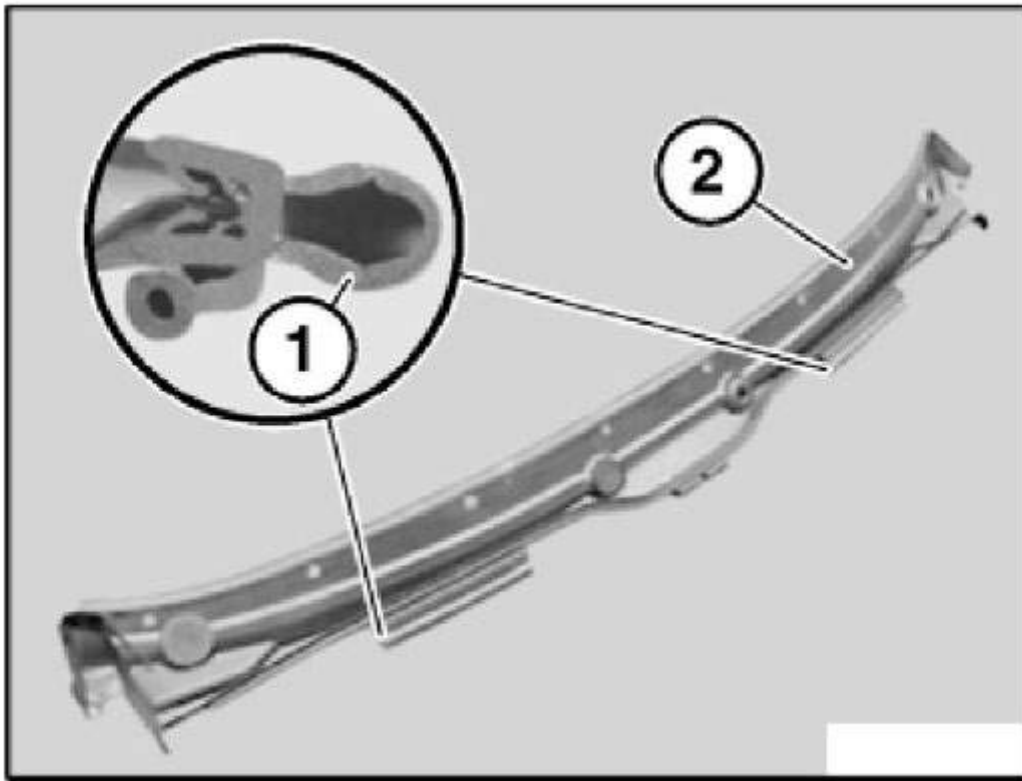
G03255646

**Fig. 67: Identifying Grommets**

Courtesy of BMW OF NORTH AMERICA, INC.

**Only Replacement:**

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



G03255647

**Fig. 68: Locating Seals On 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.

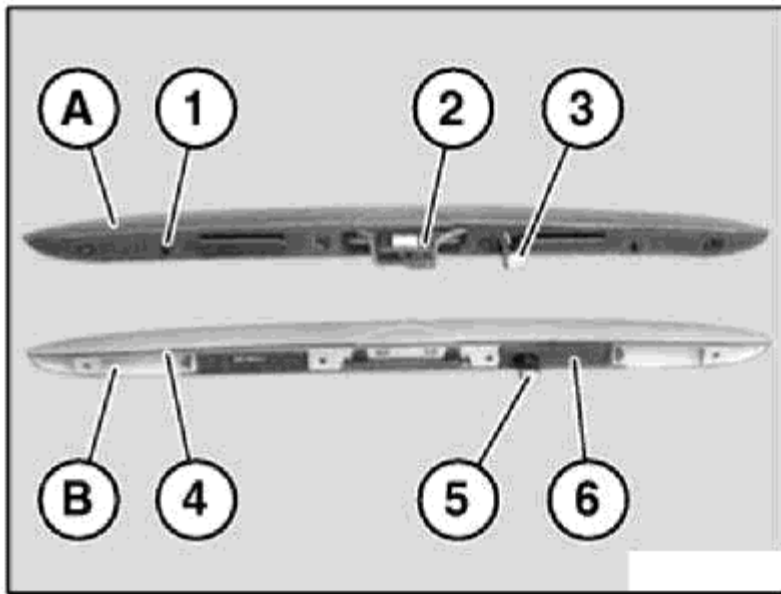
1. Wide seal over entire handle strip.
2. Open microswitch.
3. Plug connection.

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).

**Installation:**

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



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

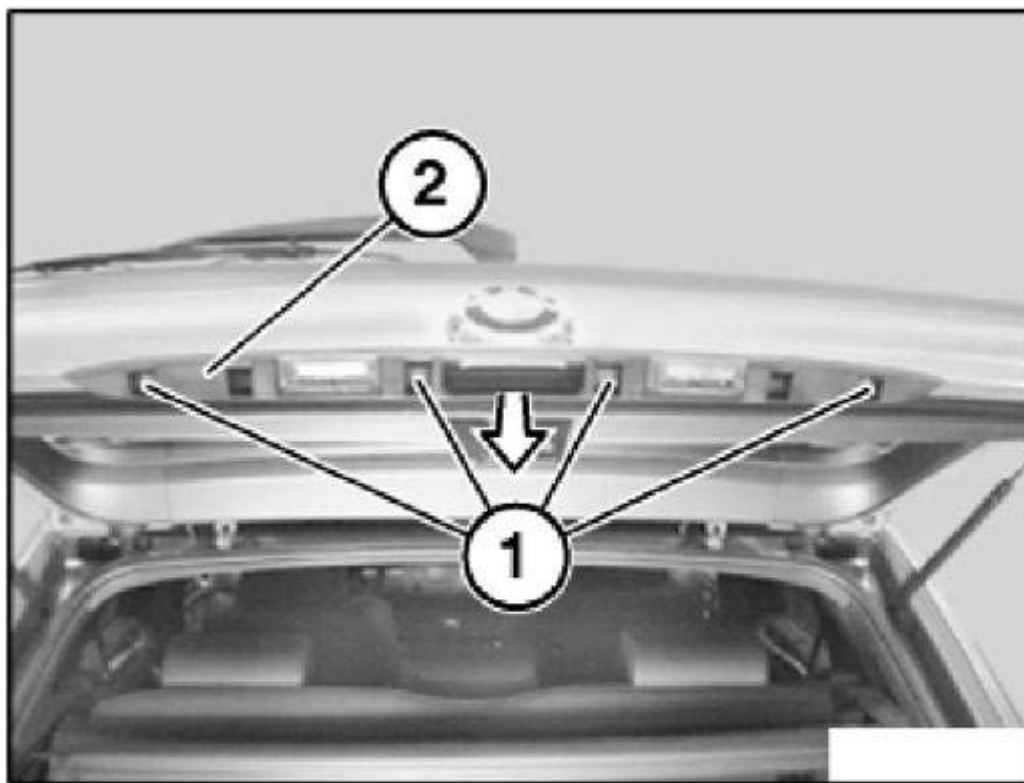
5 Plug connection

6 Small seal around plug connection (5)

G03255648

**Fig. 69: Identifying Different Handle Strip Versions**  
Courtesy of BMW OF NORTH AMERICA, INC.

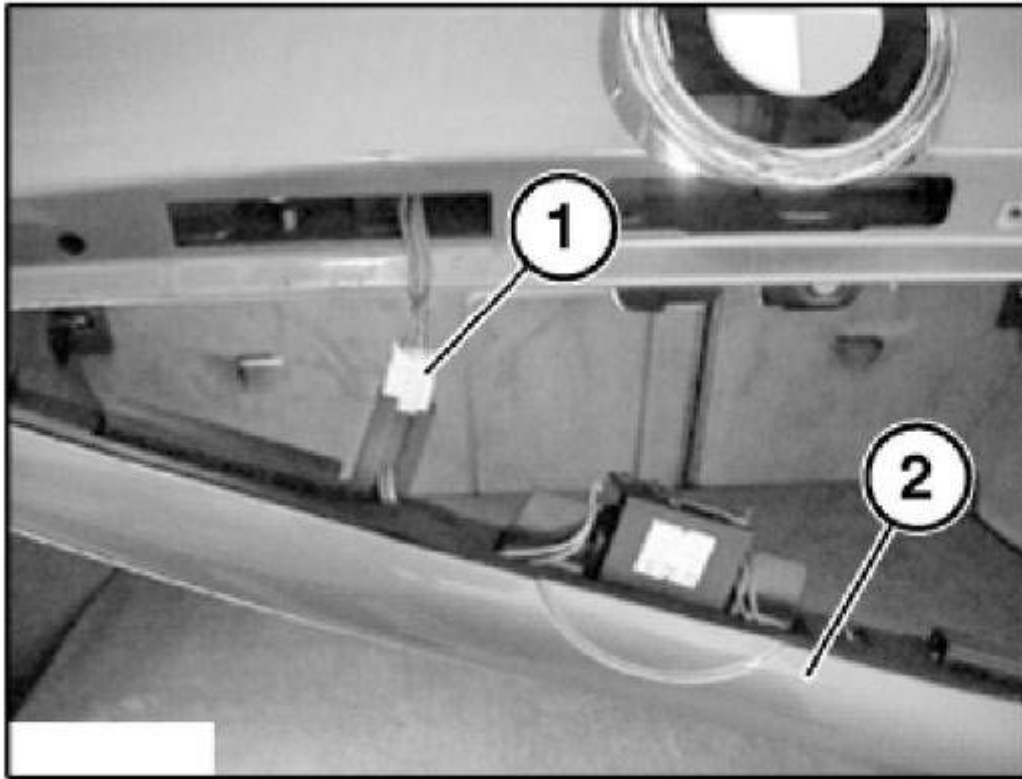
Release screws (1) and withdraw handle strip (2) somewhat.



G03255649

**Fig. 70: Locating Handle Strip Screws**  
Courtesy of BMW OF NORTH AMERICA, INC.

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



G03255650

**Fig. 71: Identifying Plug Connection**

Courtesy of BMW OF NORTH AMERICA, INC.

**Installation:**

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

Tightening torque, (2.5 N.m.).

Perform function check with trunk lid open.

**51 13 403 REPLACING HANDLE STRIP (ON TRUNK LID)**

**NOTE:** For Special Tool identification, see **SPECIAL TOOLS - X5 (3.0i) .**

**Special Tools Required:**

- 00 9 322

**Necessary Preliminary Tasks:**

- Remove handle strip. Refer to **51 13 402 REMOVING AND INSTALLING HANDLE STRIP (ON TRUNK LID)** .

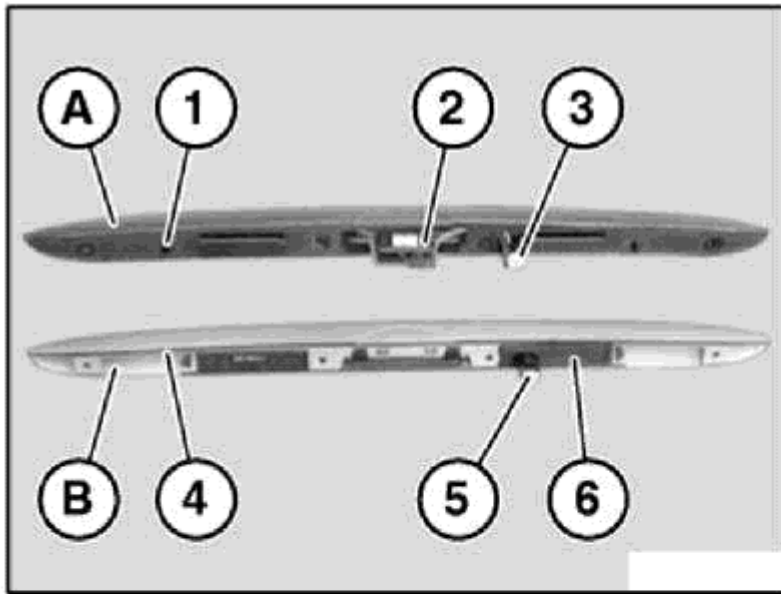
**Difference Between Versions Before And After 09/01:**

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

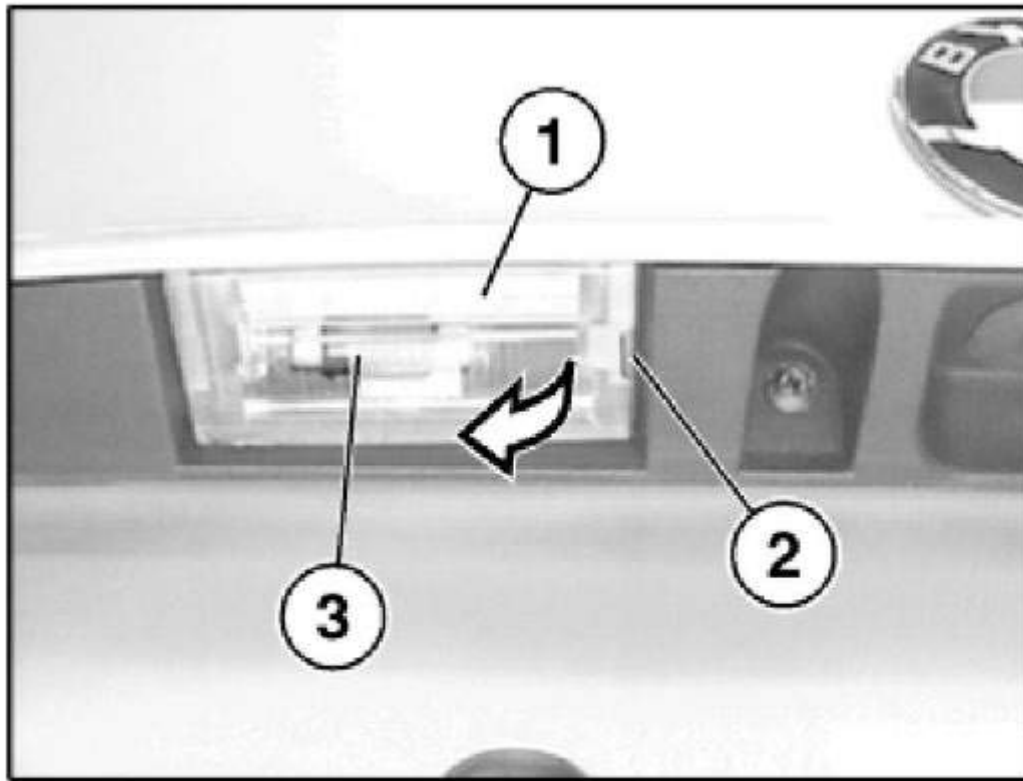
5 Plug connection

6 Small seal around plug connection (5)

G03255651

**Fig. 72: Identifying Different Trunk Handle Strip Versions**  
 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.



G03255652

**Fig. 73: Levering Light Strip Out**

Courtesy of BMW OF NORTH AMERICA, INC.

**Installation:**

Perform function check with trunk lid open.

**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.

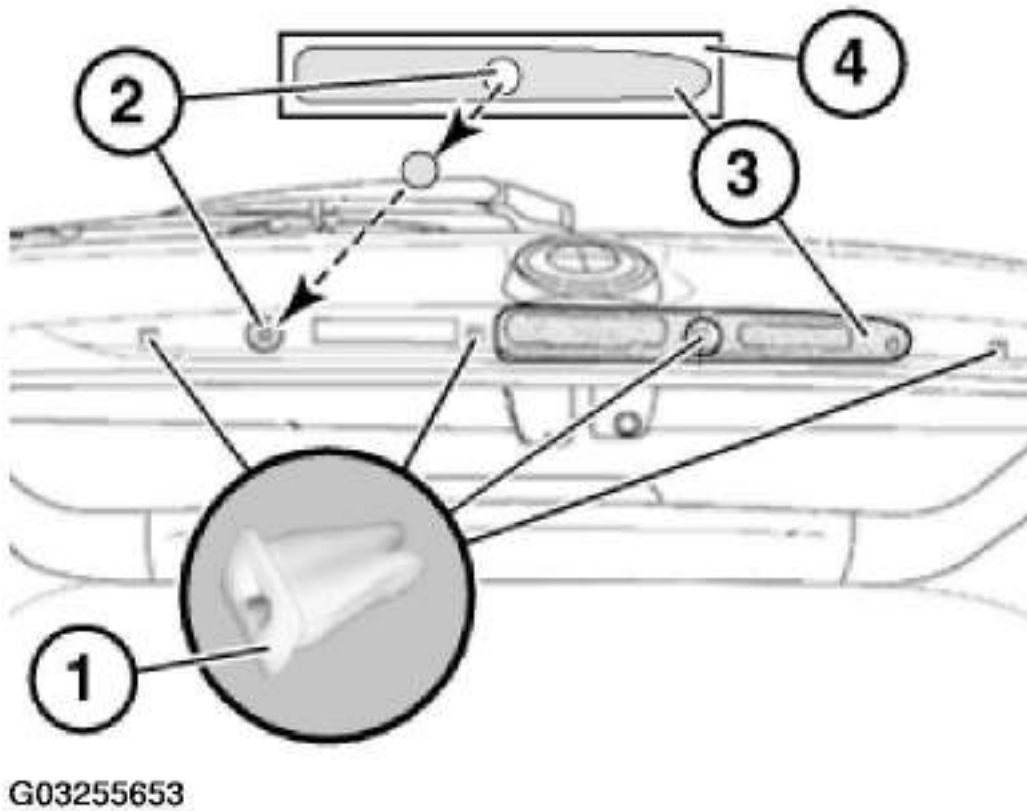
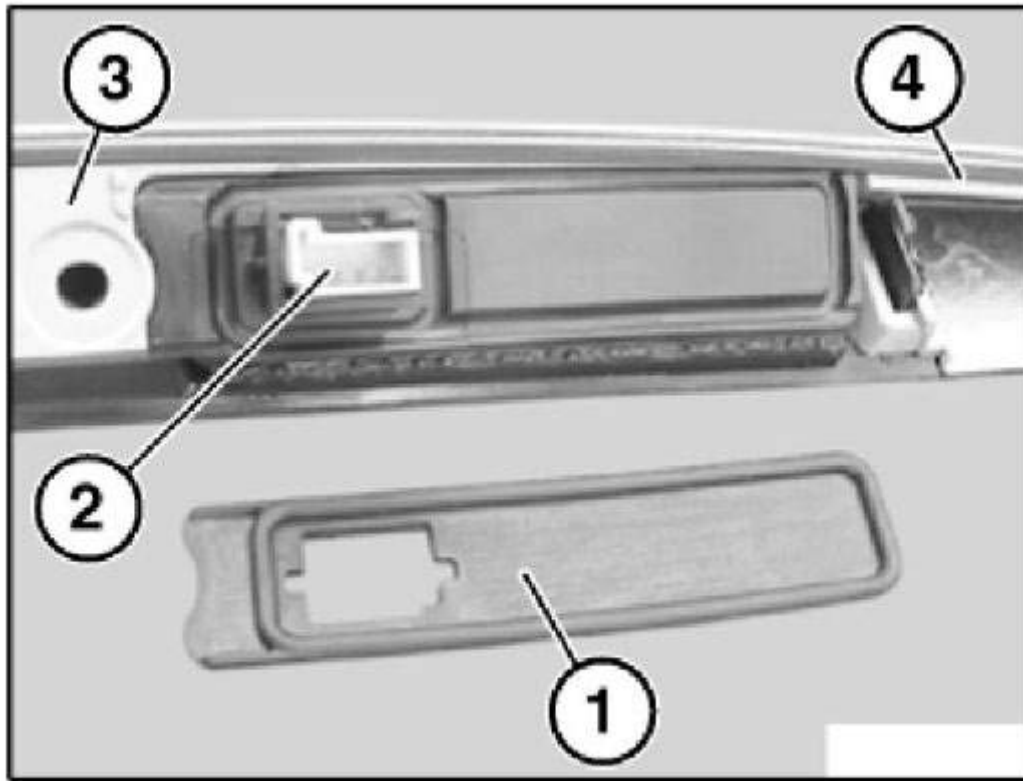


**Fig. 74: Identifying Expansion Nuts**  
Courtesy of BMW OF NORTH AMERICA, INC.

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



G03255654

**Fig. 75: View Of Handle Strip Seal**

Courtesy of BMW OF NORTH AMERICA, INC.

Seal (4) must not be damaged.

Use only new screws (3.5 x 13 mm).

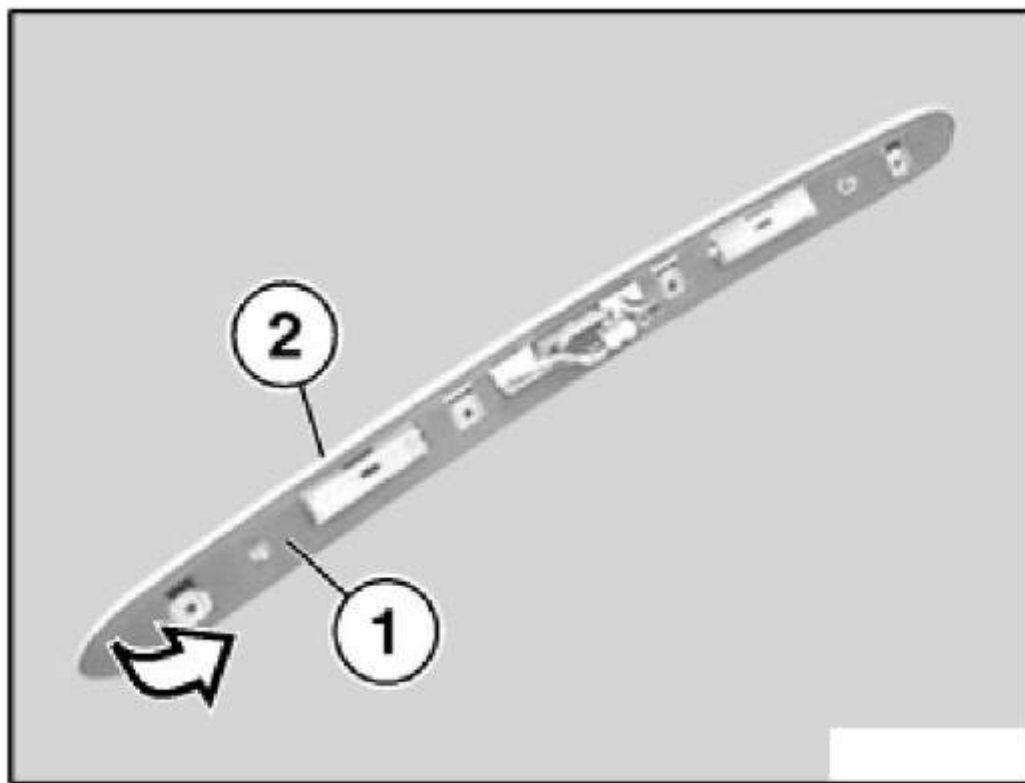
**Installation:**

Perform function check with trunk lid open.

**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).

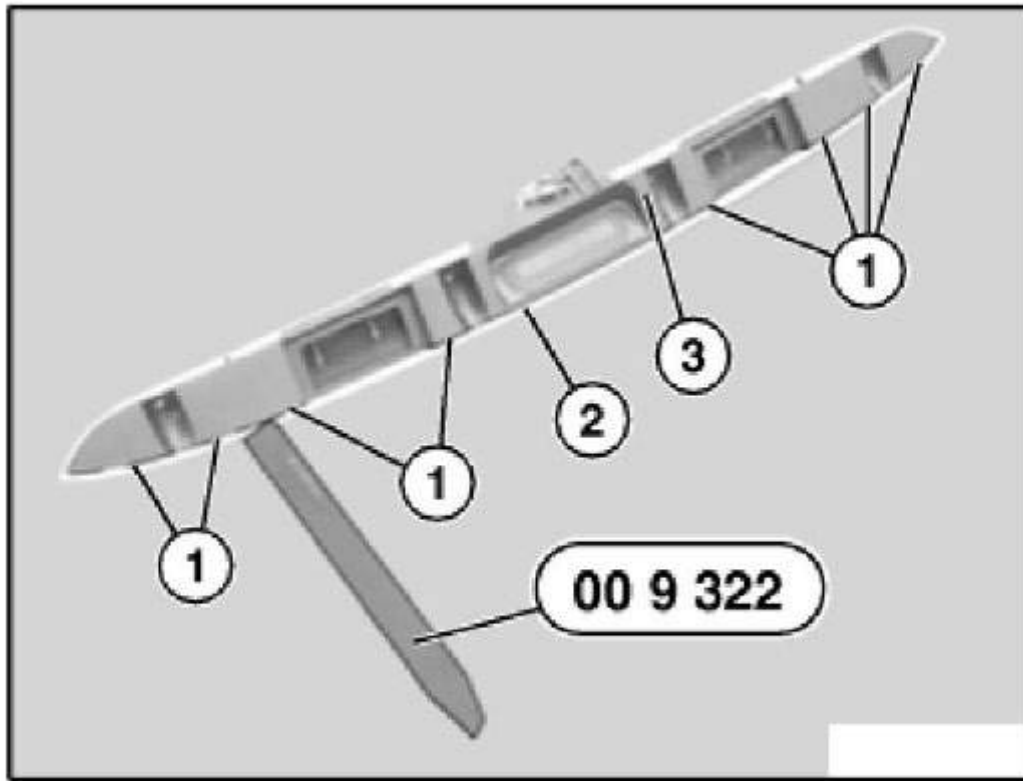


G03255655

**Fig. 76: View Of Handle Strip And Seal**  
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.

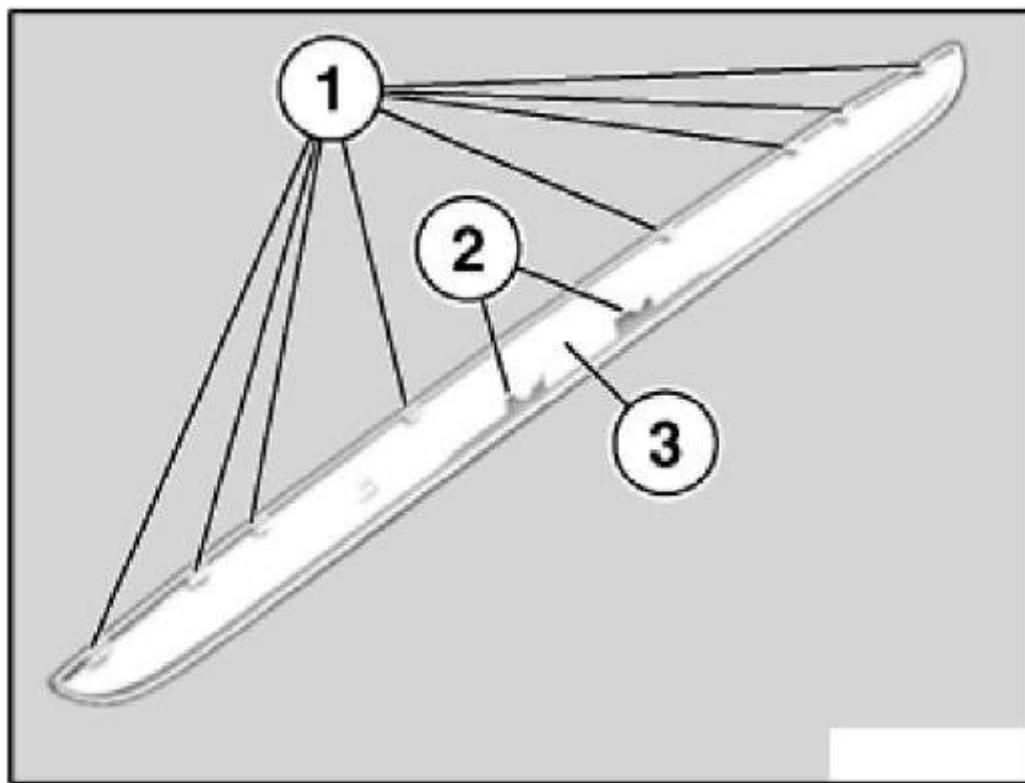


G03255656

**Fig. 77: Using Wedge To Lever Panel Out Of Handle Strip**  
Courtesy of BMW OF NORTH AMERICA, INC.

**Installation:**

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



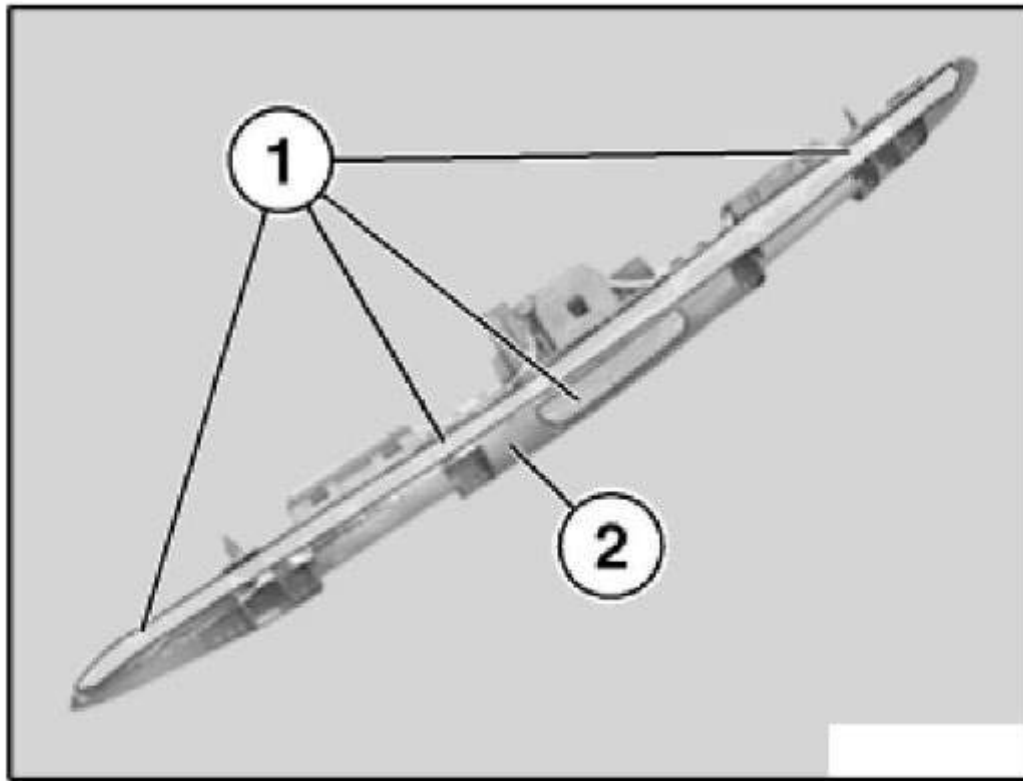
G03255657

**Fig. 78: Identifying 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.



G03255658

**Fig. 79: Identifying Adhesive Residue Areas On Handle Strip**  
Courtesy of BMW OF NORTH AMERICA, INC.

## **BMW EMBLEMS, MODEL EMBLEM**

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

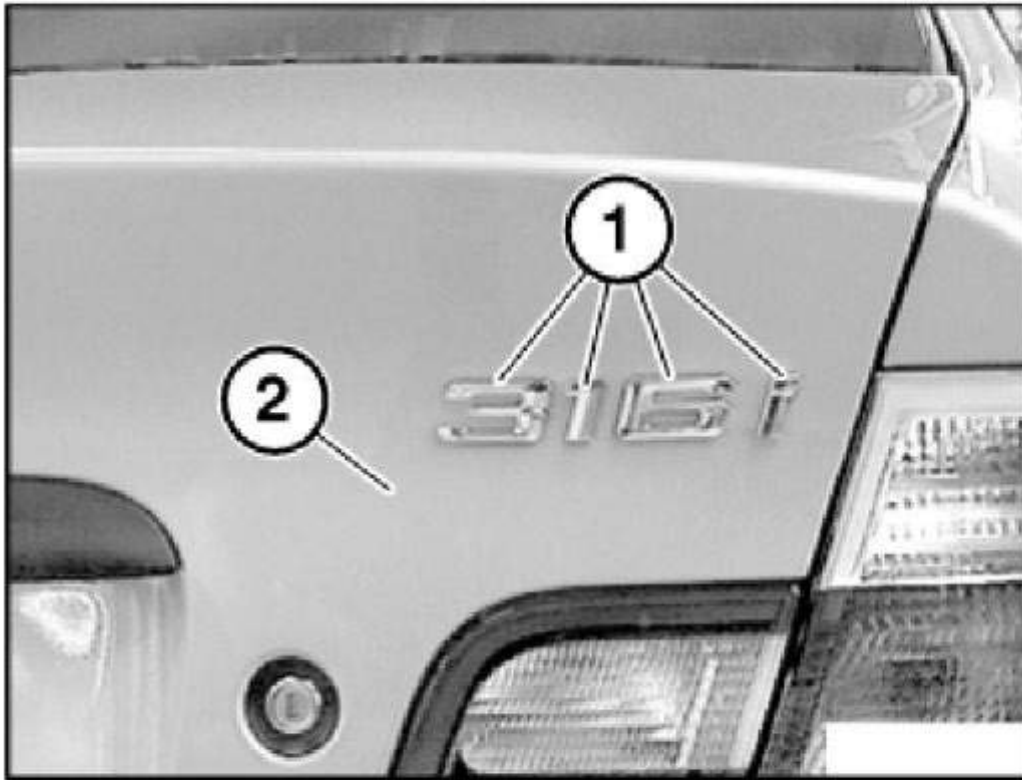
**NOTE:** The model designation is attached with adhesive and cannot be re-used. The model designation must be attached at room temperature. The model designation must be removed at stove-enameling temperatures exceeding 80° C.

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

#### **Removing:**

Coat nylon string or strong yarn with tensides (e.g. washing-up liquid).

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



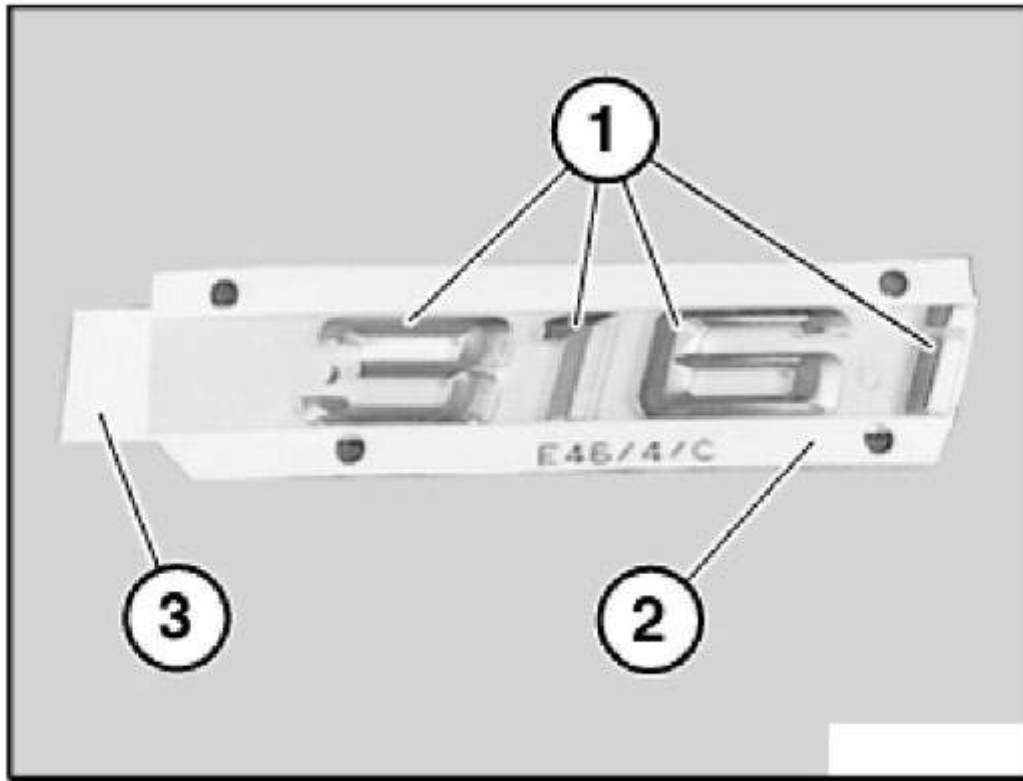
G03255659

**Fig. 80: Identifying Model Designation On Rear Lid**  
Courtesy of BMW OF NORTH AMERICA, INC.

Remove remainder of adhesive layer with adhesive remover.

**Assembly:**

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



G03255660

**Fig. 81: View Of Number And Letter Combination On Carrier Film**  
Courtesy of BMW OF NORTH AMERICA, INC.

**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).

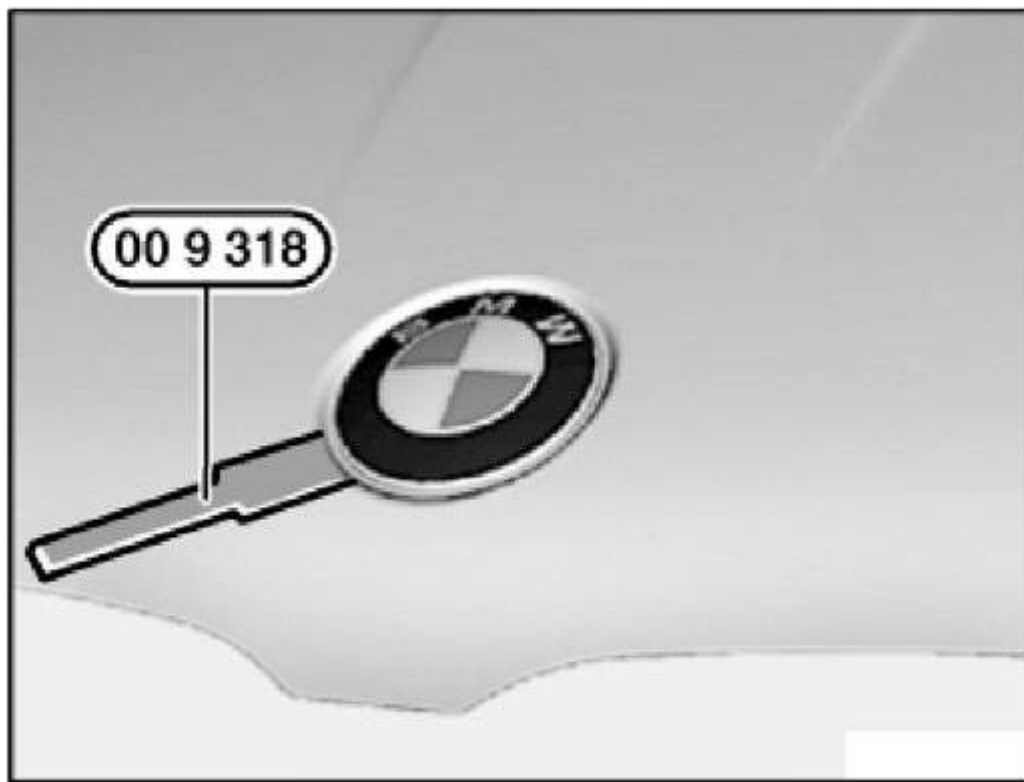
#### **51 14 000 REMOVING AND INSTALLING/REPLACING FRONT BMW BADGE**

**NOTE:** For Special Tool identification, see SPECIAL TOOLS - X5 (3.0i) .

**Special Tools Required:**

- 00 9 318

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



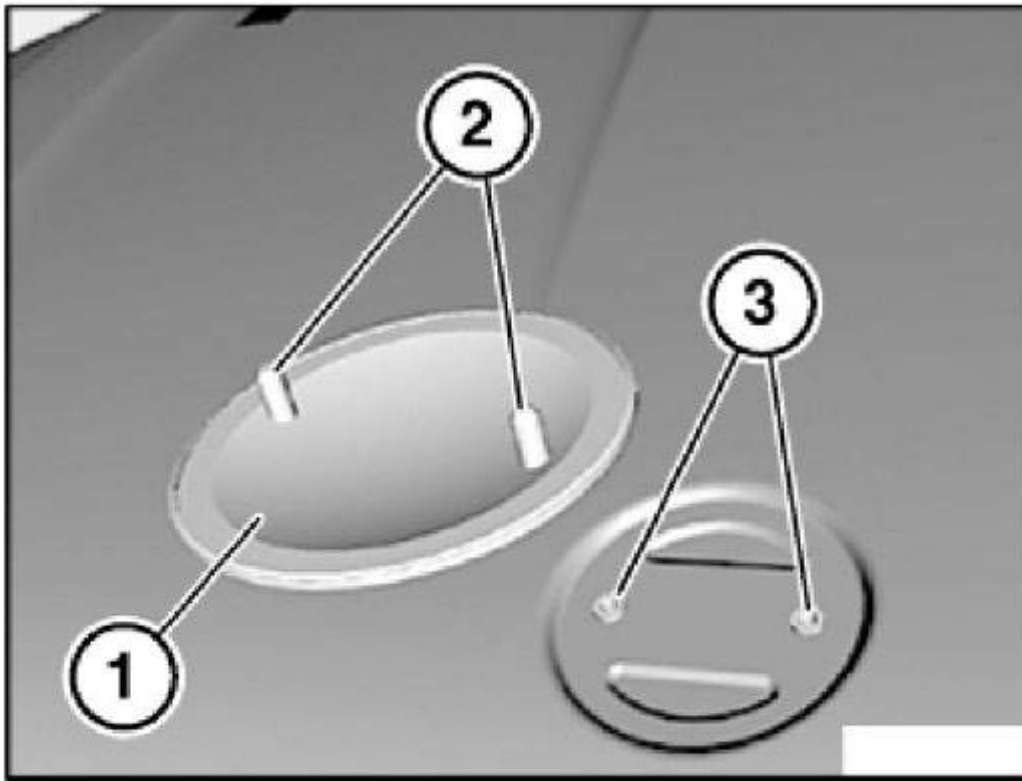
G03255661

**Fig. 82: Levering Badge Off Hood With Wedge**  
Courtesy of BMW OF NORTH AMERICA, INC.

**Installation:**

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

- (2) Guide pins.
- (3) Grommets.



(1) must not be damaged or missing:

2 Guide pins

3 Grommets

G03255662

**Fig. 83: Locating Guide Pins And Grommets**  
Courtesy of BMW OF NORTH AMERICA, INC.

#### 51 14 110 REMOVING AND INSTALLING/REPLACING REAR MODEL EMBLEM

**IMPORTANT:** The "Instructions for number/letter combination cementing" serve as the basis for these repair instructions and must be followed without fail. Refer to 51 14... INSTRUCTIONS FOR ATTACHING NUMBER/LETTER DESIGNATION COMBINATION .

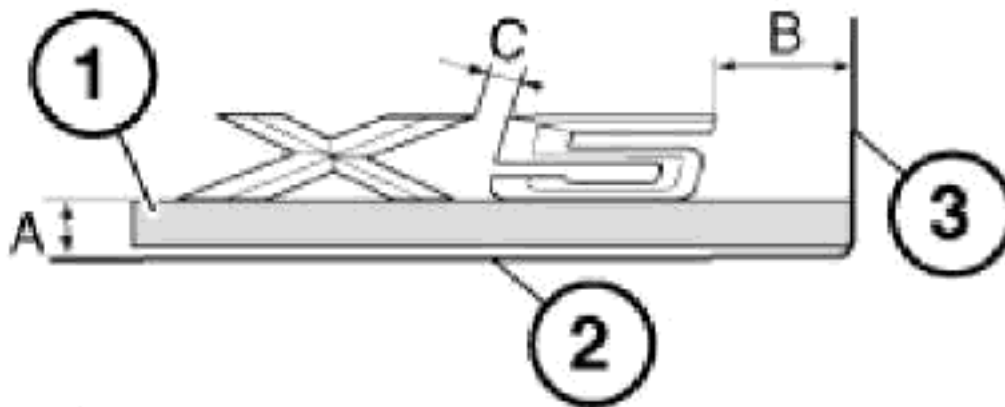
Stick on top edge of adhesive tape (1) parallel to bottom edge of rear lid (2) at distance "A".

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

**Dimensions:**

A = 22 mm.

B = 53 mm.



A= 22 mm

B= 53 mm

C= 8.7 mm

G03255663

**Fig. 84: Identifying Dimensions Of Rear Model Emblem**

Courtesy of BMW OF NORTH AMERICA, INC.

**NOTE:** Measurement "C" is for information purposes only, as it is determined by carrier film. C = 8.7 mm.

## BUMPER STRIP

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

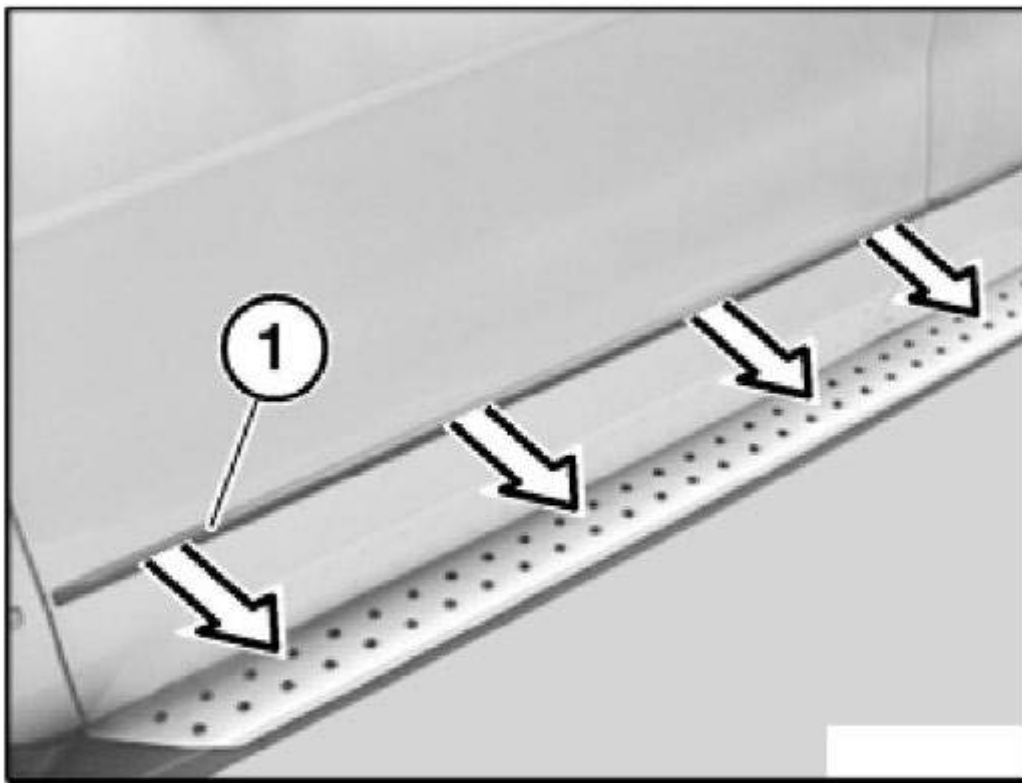
**RIGHT FRONT DOOR**

Detach rubbing strip (1).

**Installation:**

Clean glued area.

Detach protective film from new rubbing strip and stick on.



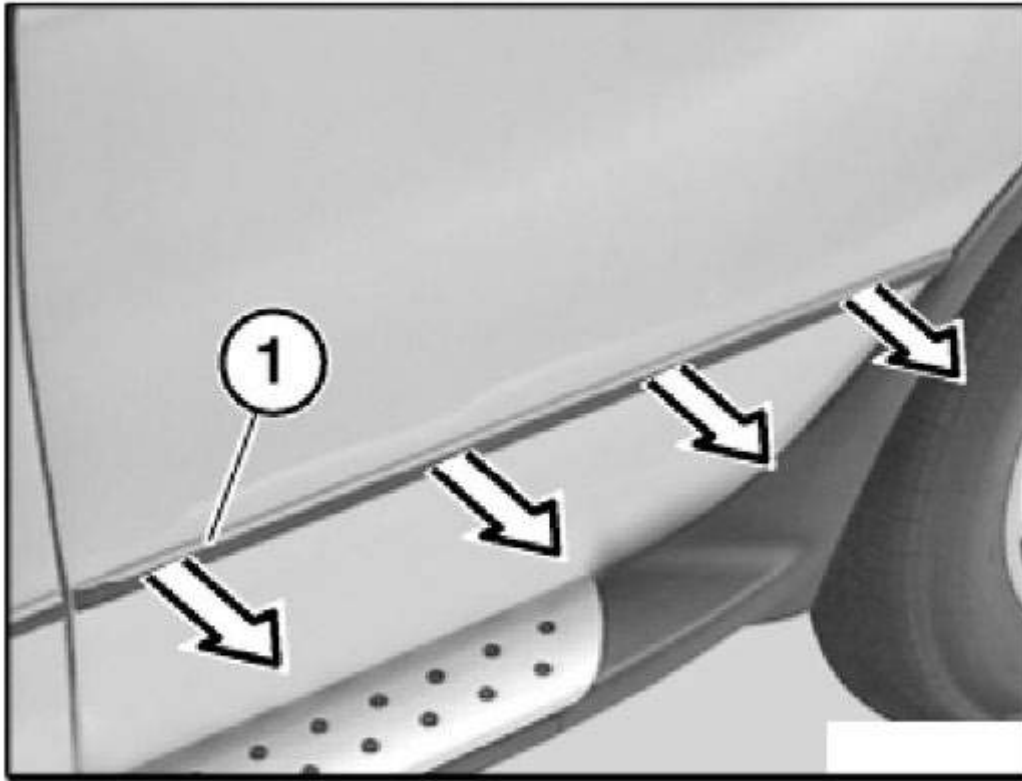
G03255664

**Fig. 85: Removing Rubbing Strip**

Courtesy of BMW OF NORTH AMERICA, INC.

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

Detach rubbing strip (1).



G03255665

**Fig. 86: Detaching Rubbing Strip**

Courtesy of BMW OF NORTH AMERICA, INC.

**Installation:**

Clean glued area.

Detach protective film from new rubbing strip and stick on.

**MIRRORS/COVERS/ASHTRAYS/SHELVES/TRAYS**

**51 16 ... CALIBRATING COMPASS IN INTERIOR REARVIEW MIRROR**

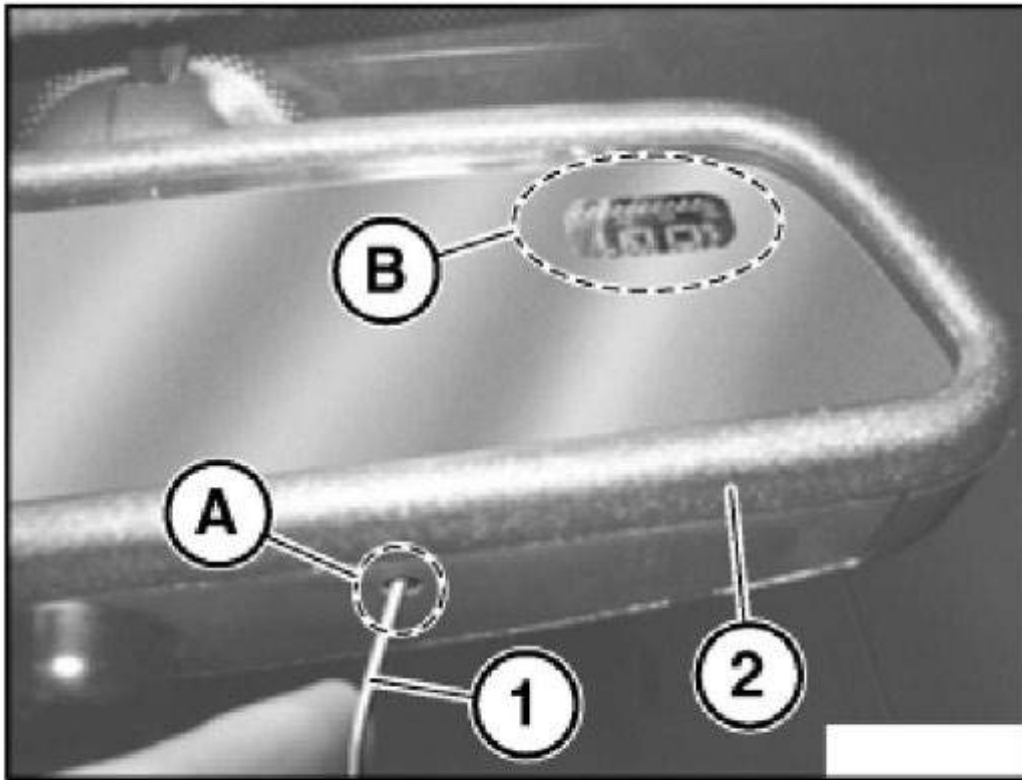
**NOTE:** It may be necessary to alter the magnetic deflection zone if the vehicle is more than two ranges away from the set deflection zone. For numbers of magnetic deflection zone, refer to Owner's Handbook.

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



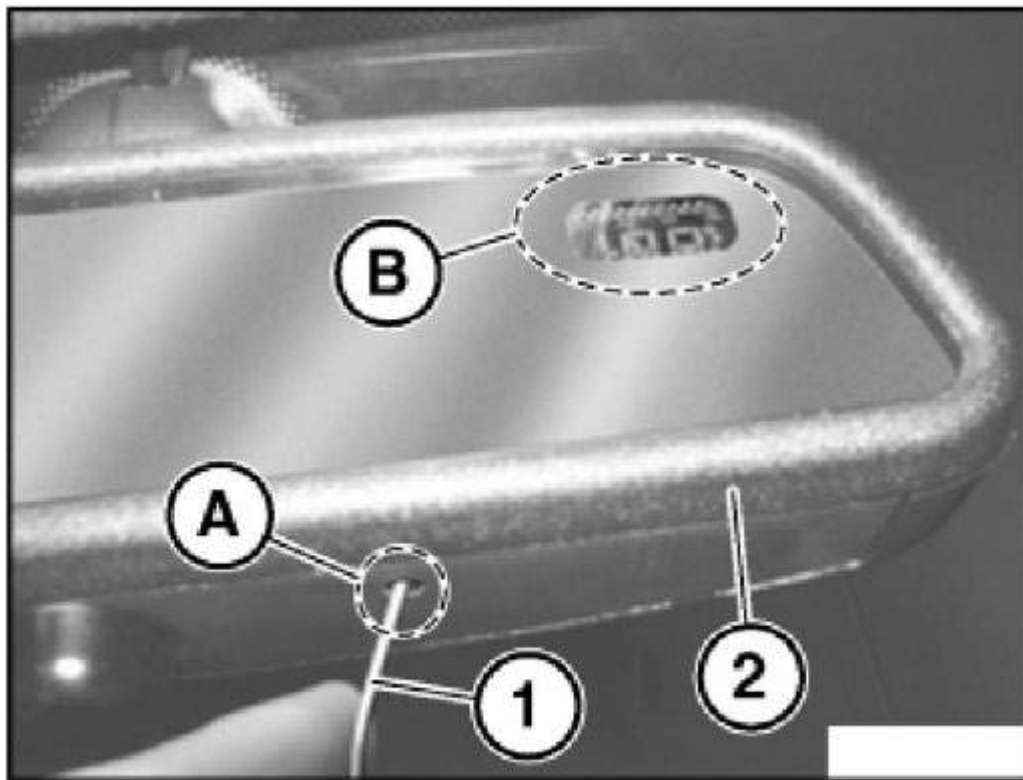
G03255666

**Fig. 87: Locating Pushbutton And 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.



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**Fig. 88: Identifying Pushbutton And Compass Display**  
Courtesy of BMW OF NORTH AMERICA, INC.

**51 16 ... CEMENTING OF MIRROR BASE**

**Material Requirements:**

Repair set for cementing of mirror base.

Primer XW 775.

### **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, cream-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:

Epoxide 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:

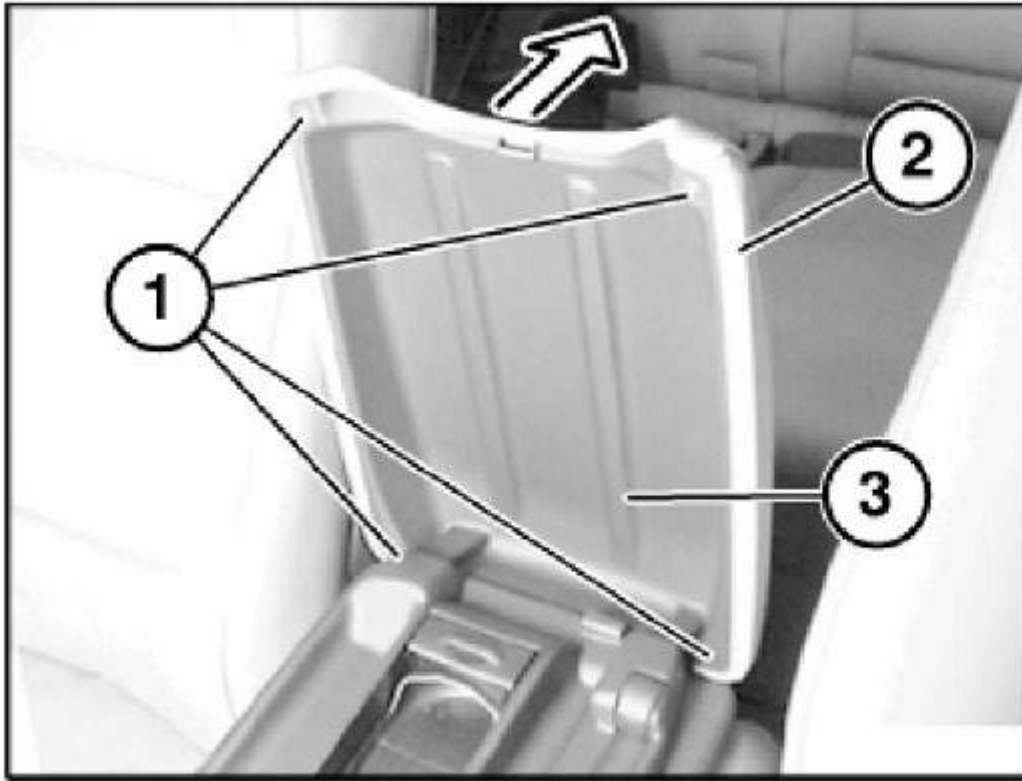
**CAUTION: Cement is dangerous for health when vapours are inhaled or through contact with the skin. As is the case for all epoxide resins, sensitive persons might be confronted with an allergy through contact with the skin. If the product gets on the skin, wash off with soap and water immediately. If 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. 89: View Of Center Armrest**

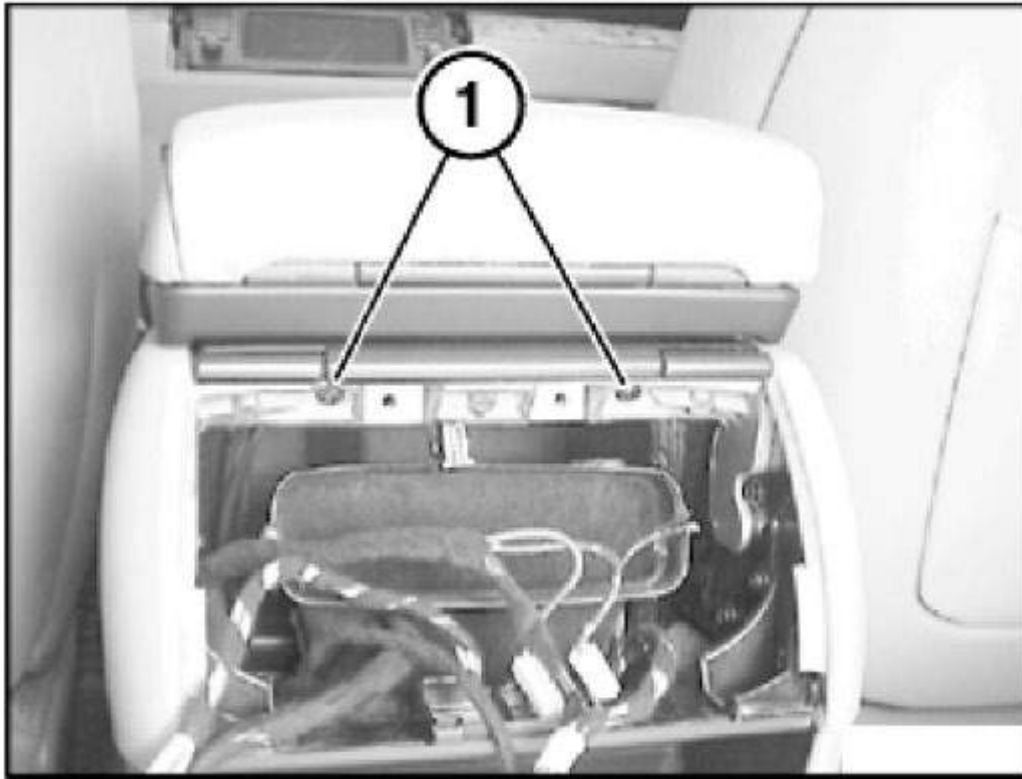
Courtesy of BMW OF NORTH AMERICA, INC.

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

### Necessary Preliminary Tasks:

- Remove rear compartment fresh air grill. **64 22 190 REMOVING AND INSTALLING/REPLACING FRESH-AIR GRILL IN REAR OF CAR .**

Release screws (1).



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**Fig. 90: Locating Screws In Armrest**

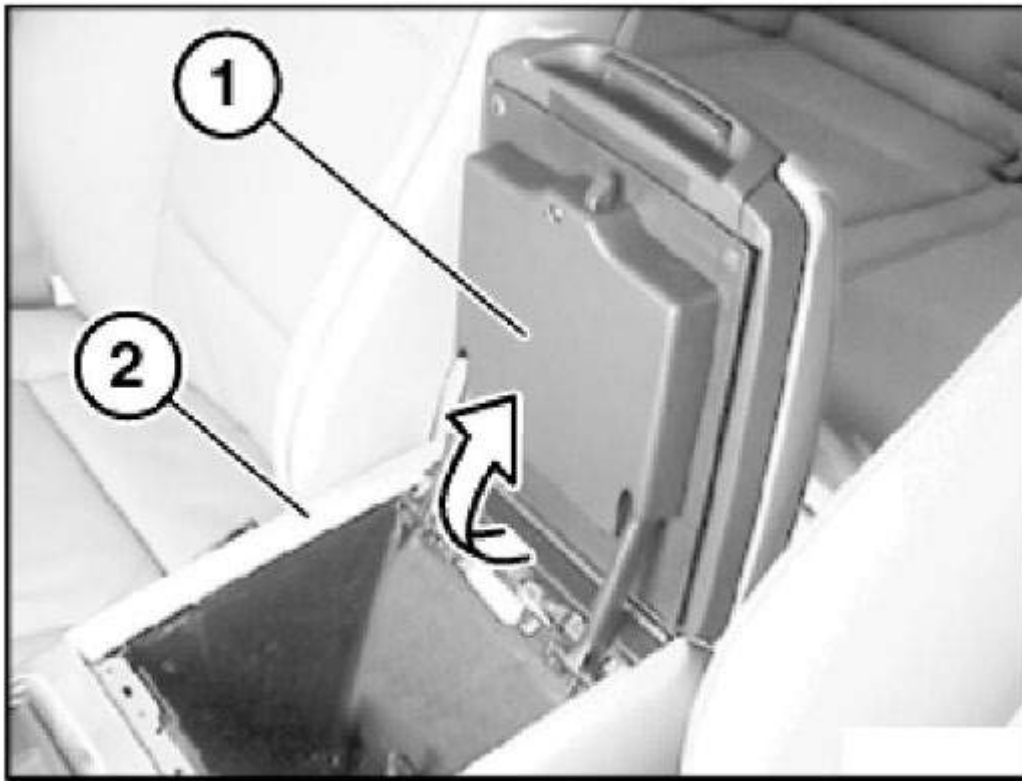
Courtesy of BMW OF NORTH AMERICA, INC.

**Version Without Eject Box:**

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

**Replacement:**

Remove armrest from cover on center armrest. Refer to **51 16 ... REMOVING AND INSTALLING/REPLACING ARMREST ON COVER ON CENTER ARMREST** .



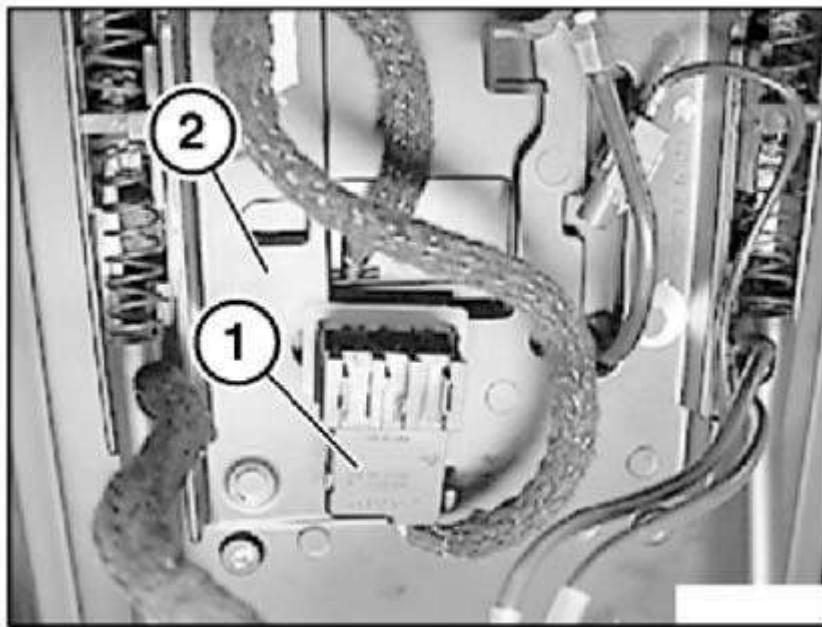
G03255670

**Fig. 91: View Of Armrest And Storage Tray**  
Courtesy of BMW OF NORTH AMERICA, INC.

**Version With Eject Box:**

- Disconnect plug connection(s) for eject box. Refer to **84 11 510 REMOVING AND INSTALLING/REPLACING EJECT BOX (V SERIES CELLULAR TELEPHONE)** , **84 11 515 REMOVING AND INSTALLING/REPLACING EJECT BOX (CORDLESS KEYPAD HANDSET)** and **84 11 610 REMOVING AND INSTALLING/REPLACING EJECT BOX (CORDLESS KEYPAD HANDSET)** .

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



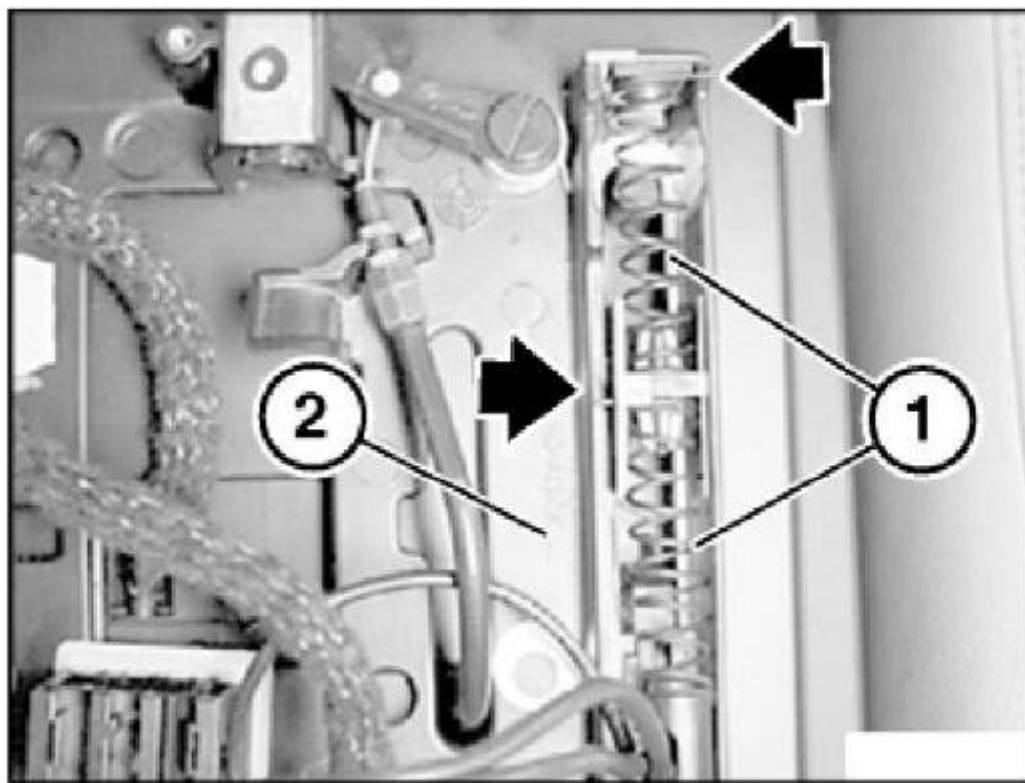
G03255671

**Fig. 92: Locating Plug Connection With Holder For Center Armrest**  
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.



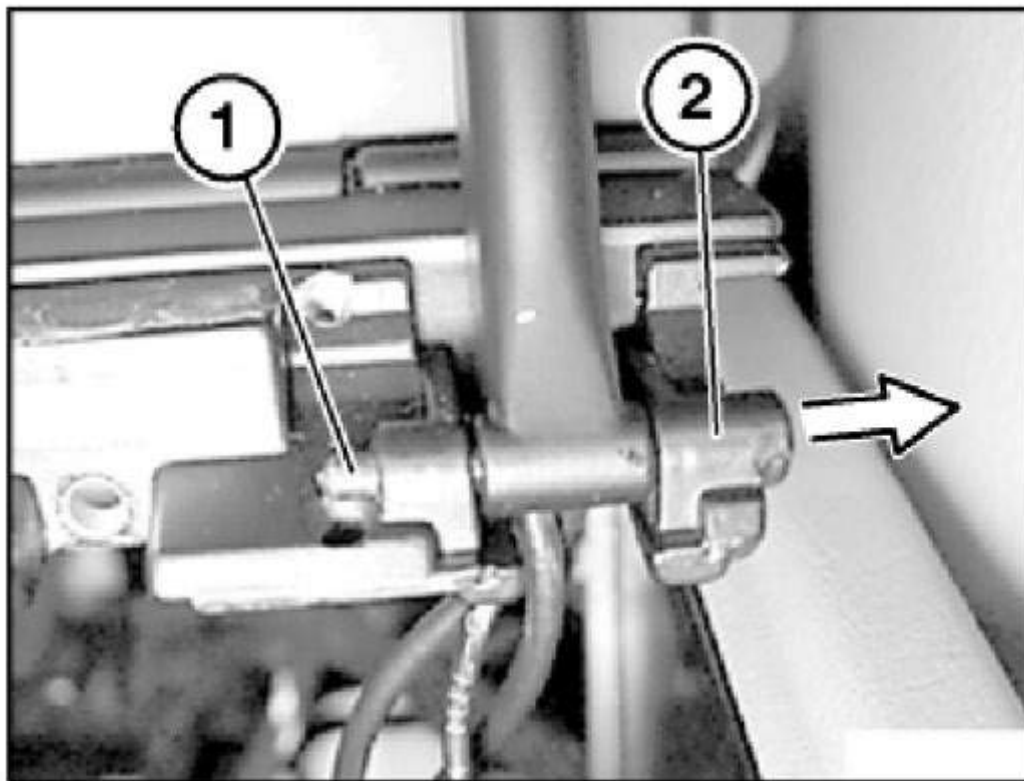
G03255672

**Fig. 93: Identifying Springs On Left/Right On 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:**

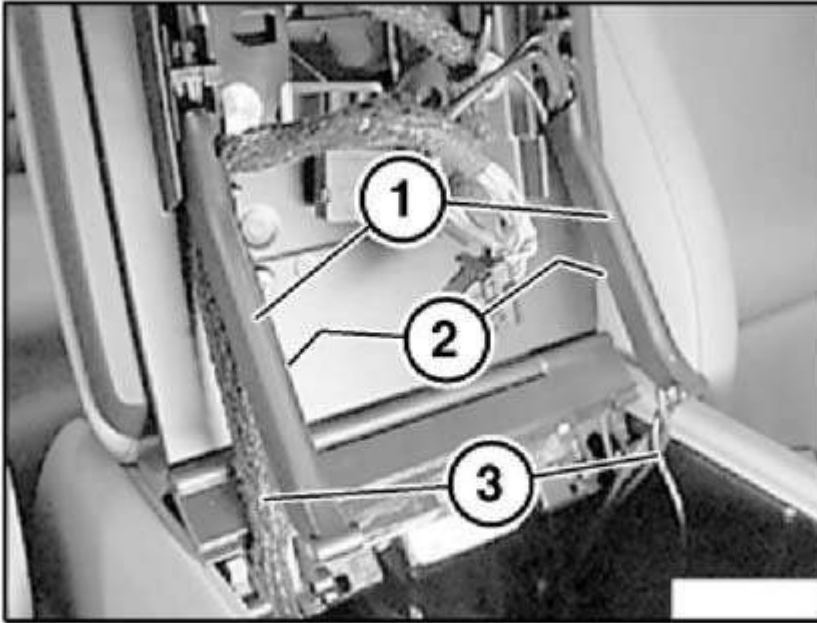
Fit split pin (1) with notch facing outwards in hinge (2).



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**Fig. 94: View Of Split Pin With Notch Facing Outwards**  
Courtesy of BMW OF NORTH AMERICA, INC.

Pull swivel arms (1) forwards.



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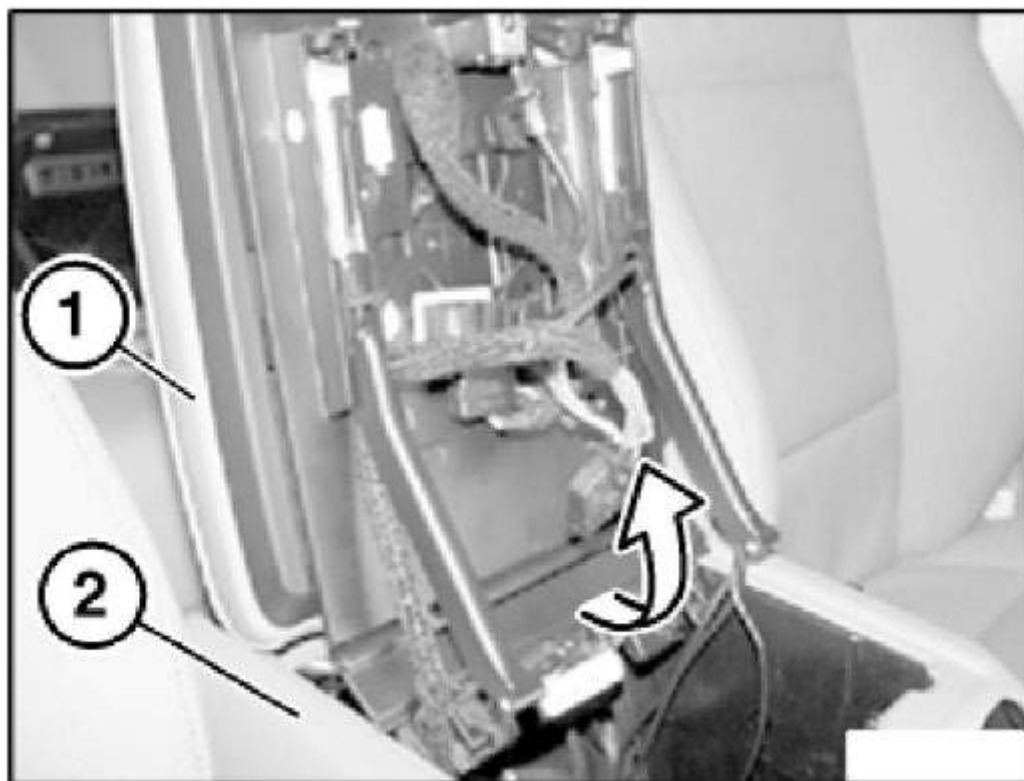
**Fig. 95: Pulling Swivel Arms Forwards**  
**Courtesy of BMW OF NORTH AMERICA, INC.**

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

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

**Replacement:**

Remove armrest from cover on center armrest. Refer to **51 16 ... REMOVING AND INSTALLING/REPLACING ARMREST ON COVER ON CENTER ARMREST** .



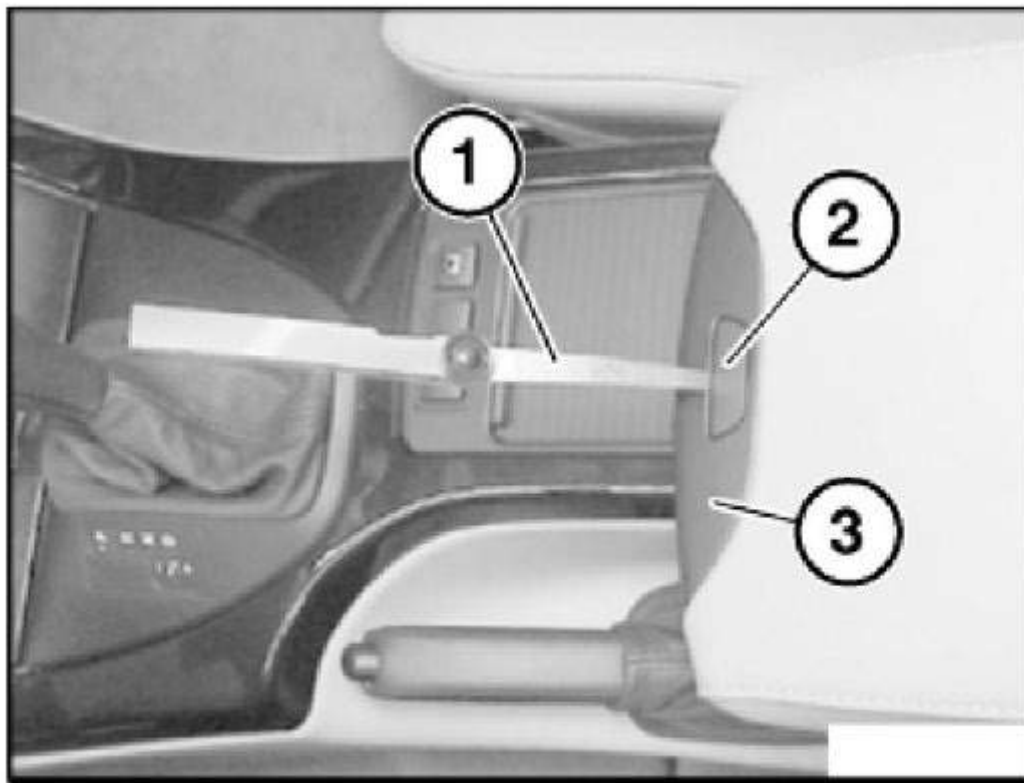
G03255675

**Fig. 96: Removing Center Armrest From Storage Tray**  
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).



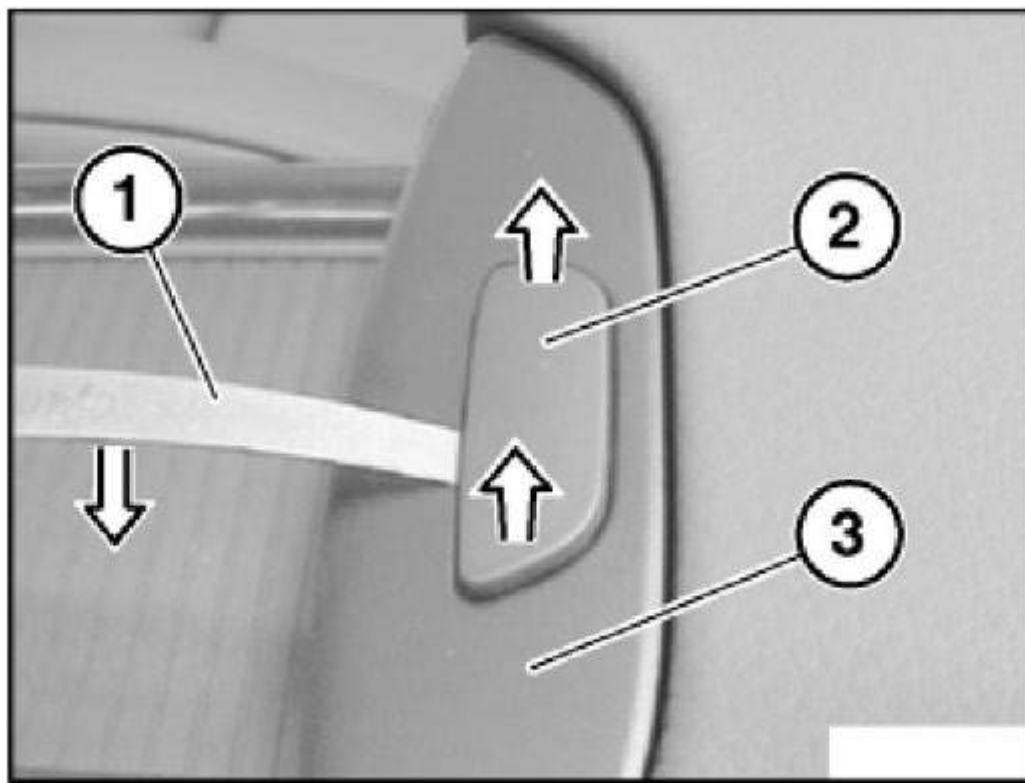
G03255676

**Fig. 97: 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).



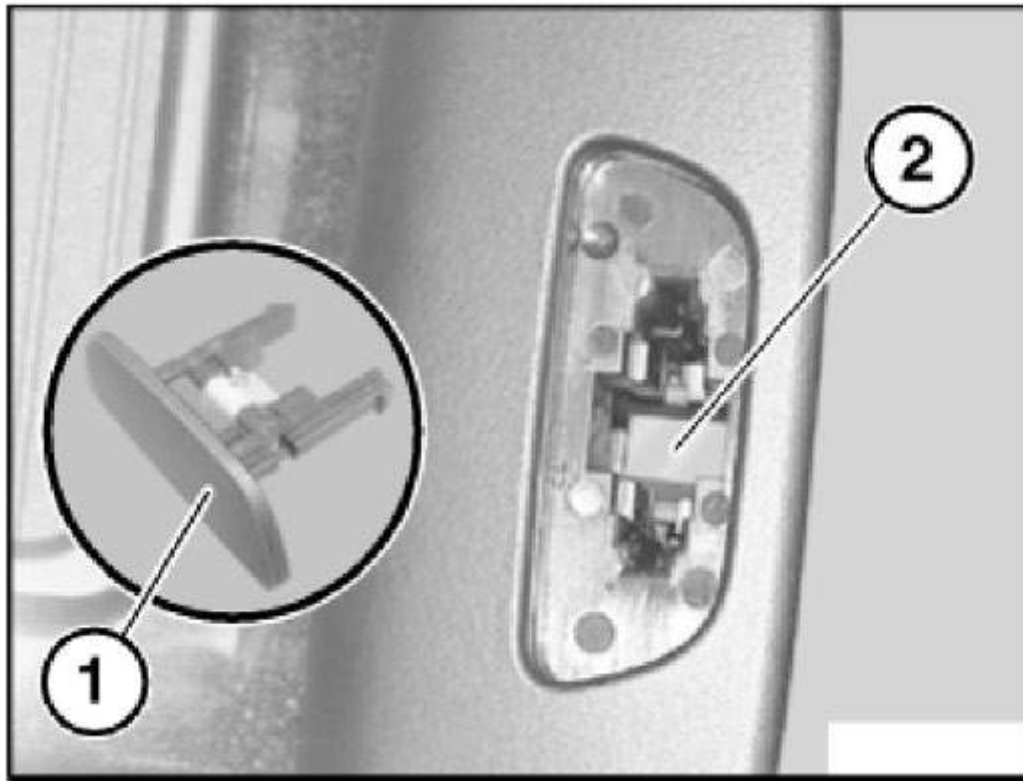
G03255677

**Fig. 98: Removing Pushbutton Using 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. 99: Locating Vacuum Out Duct**

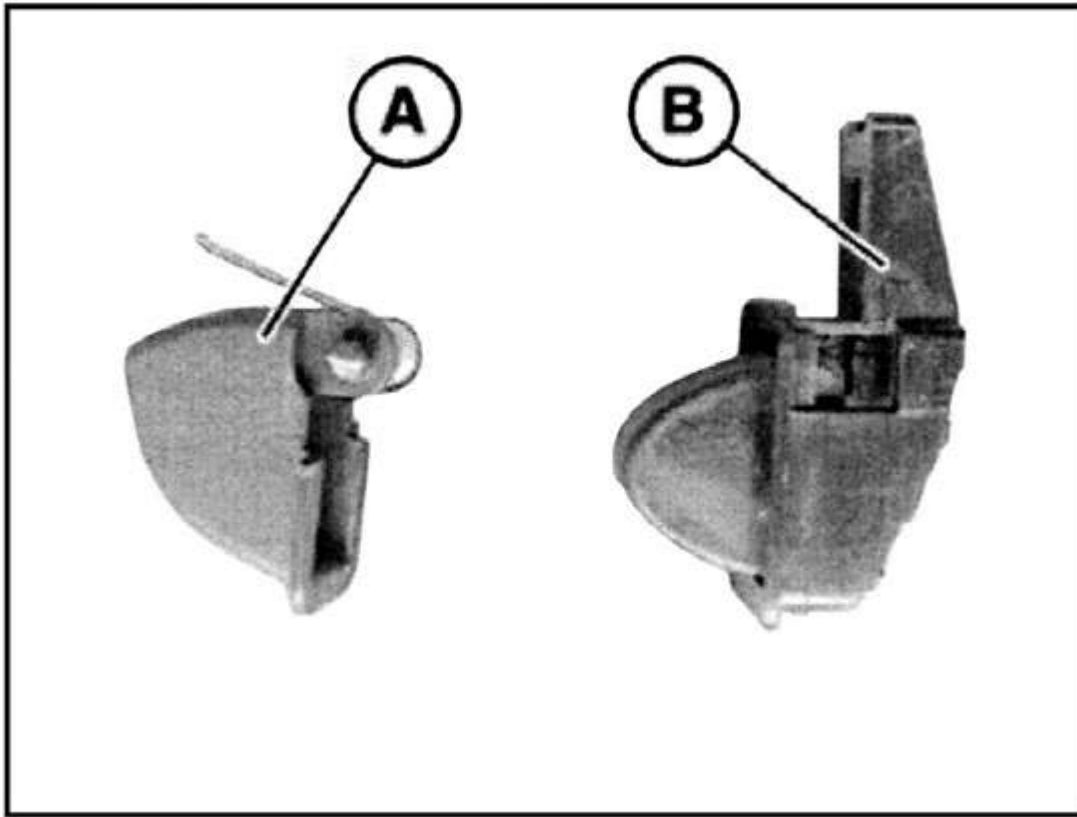
Courtesy of BMW OF NORTH AMERICA, INC.

#### 51 16 ... REPLACING CLAMPING ELEMENT FOR FRONT CUP HOLDER

**NOTE:** Repair solution can only be used on vehicles up to build date November 30, 2003 and vehicles from build date January 1, 2005.

**NOTE:** Two variants of the clamping element are possible.

- A = Fitting on new part.
- B = Repair solution.



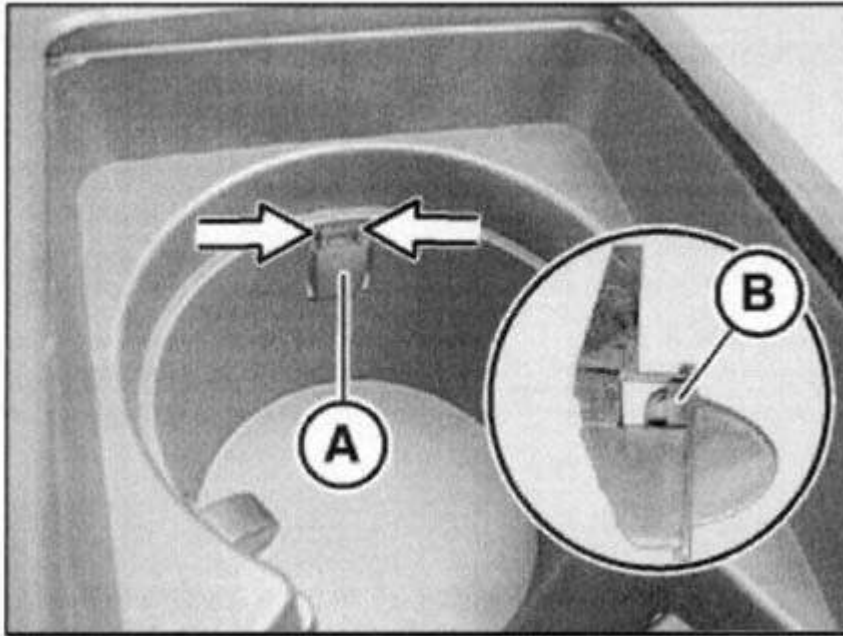
G00410091

**Fig. 100: Identifying Variants Of Clamping Elements**  
Courtesy of BMW OF NORTH AMERICA, INC.

**Replacement Of Clamping Element Variant (A):**

**NOTE:** Because there are optical differences between clamping elements (A) and (B), all clamping elements (A) must be replaced.

Compress clamping element (A) with snipe nose pliers in direction of arrow and feed out inwards.



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**Fig. 101: Locating Clamping Element (A)**  
Courtesy of BMW OF NORTH AMERICA, INC.

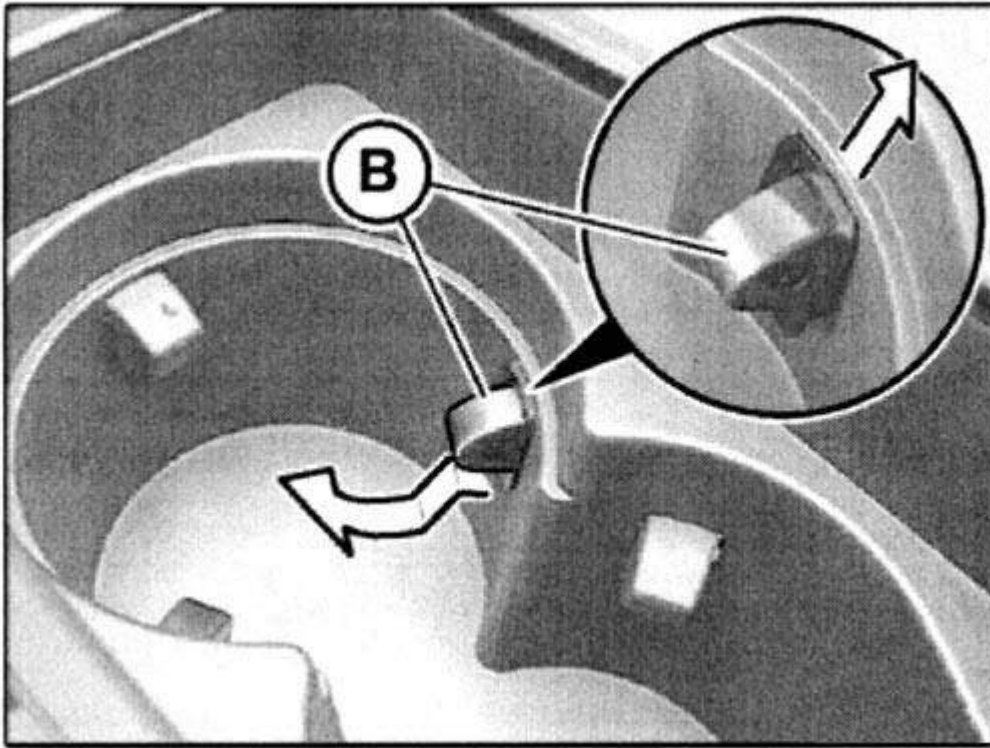
Insert new clamping element (B).

**NOTE:** Broken-out clamping elements (A) can remain in the car.

**Replacement Of Clamping Element Variant (B):**

Slide clamping element (B) upwards and lever out in downward direction.

Press clamping element (B) downwards/inwards and remove.



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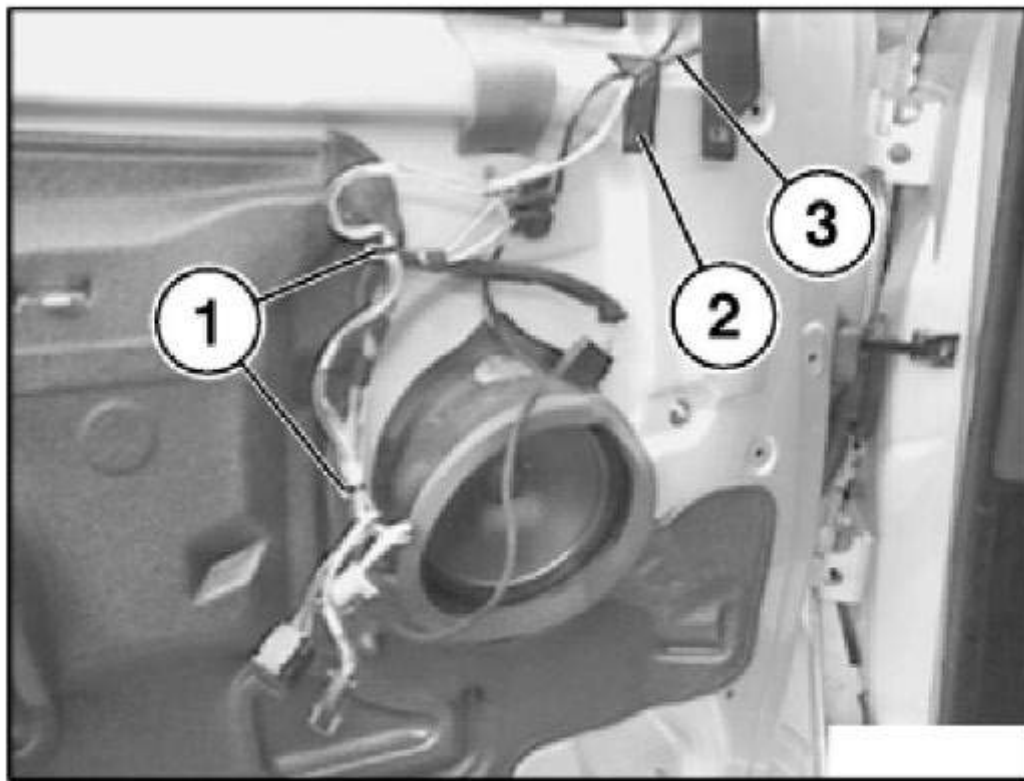
**Fig. 102: Removing Clamping Element (B)**  
Courtesy of BMW OF NORTH AMERICA, INC.

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

Remove speaker in window frame of front door. Refer to **65 13 070 REMOVING AND INSTALLING/REPLACING SPEAKER (ON WINDOW FRAME, LEFT OR RIGHT)** .

Unfasten cable clip (1).

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

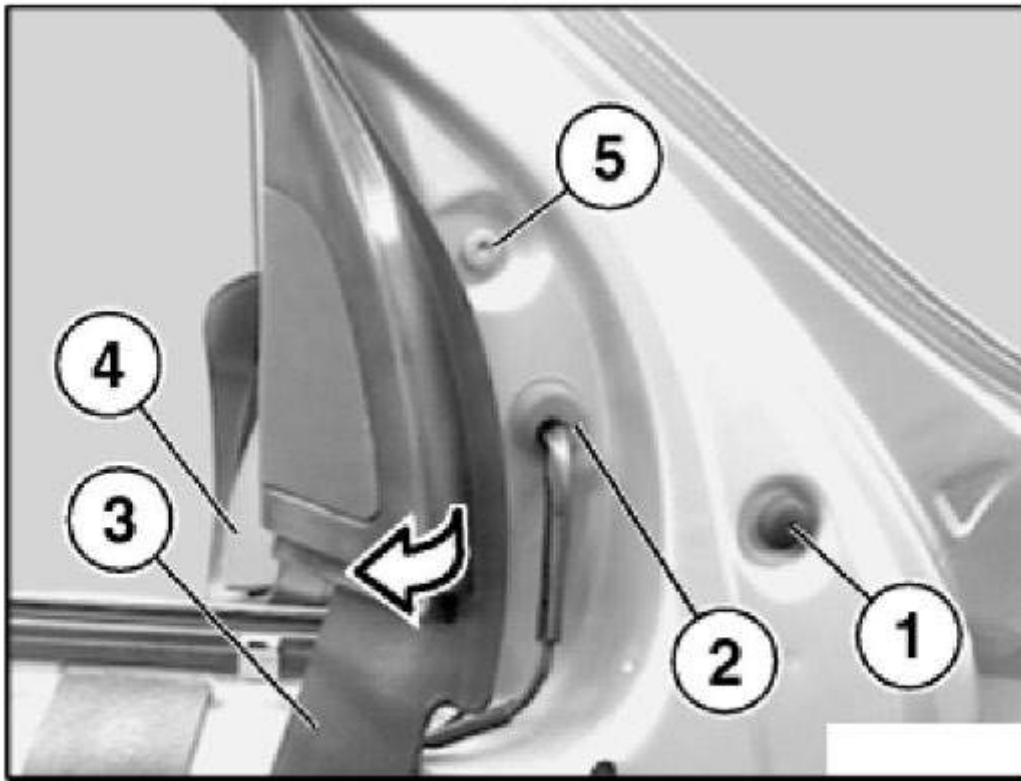


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**Fig. 103: Pulling Off Adhesive Tape And Exposing Wire**  
Courtesy of BMW OF NORTH AMERICA, INC.

Lever out cover (1) and release screw underneath.

Pull cover (3) to one side.



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**Fig. 104: Aligning Cover To One Side**  
Courtesy of BMW OF NORTH AMERICA, INC.

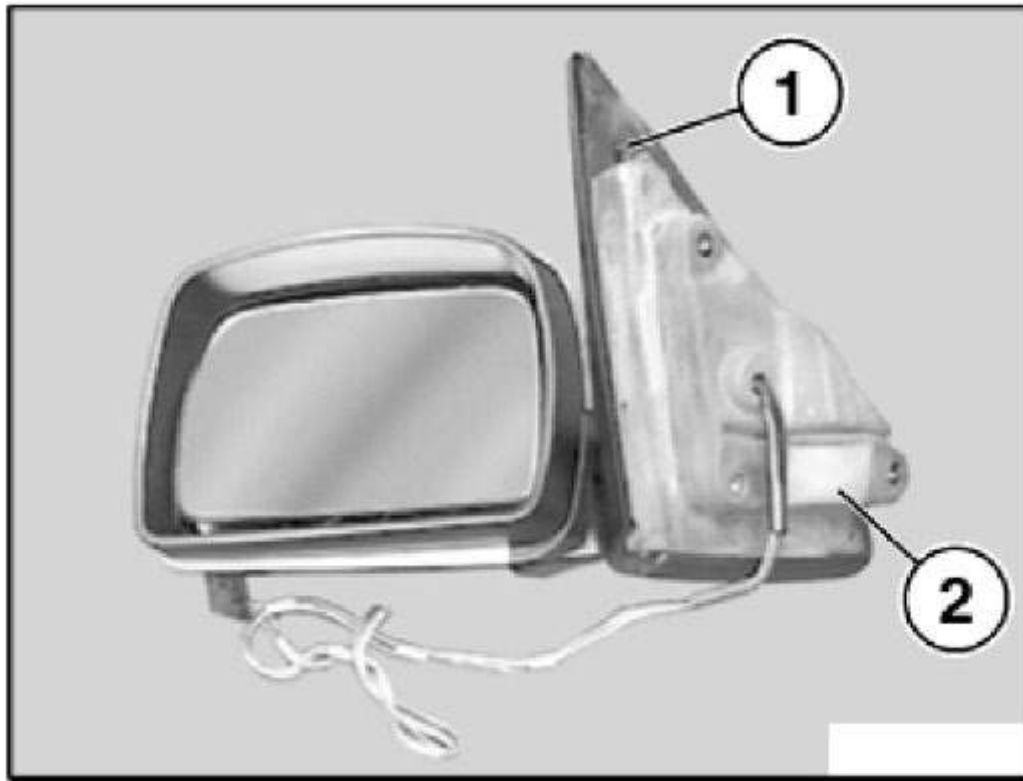
Release screw (5) and detach mirror (4) with cable (2).

**Installation:**

Tightening torque, (6 N.m.). Only for new rearview mirror (replacement) for initial screw connection (shaping of thread-cutting screws), (8 N.m.).

**Installation:**

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



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**Fig. 105: Identifying Mirror Base Seal And Sound Insulation**  
Courtesy of BMW OF NORTH AMERICA, INC.

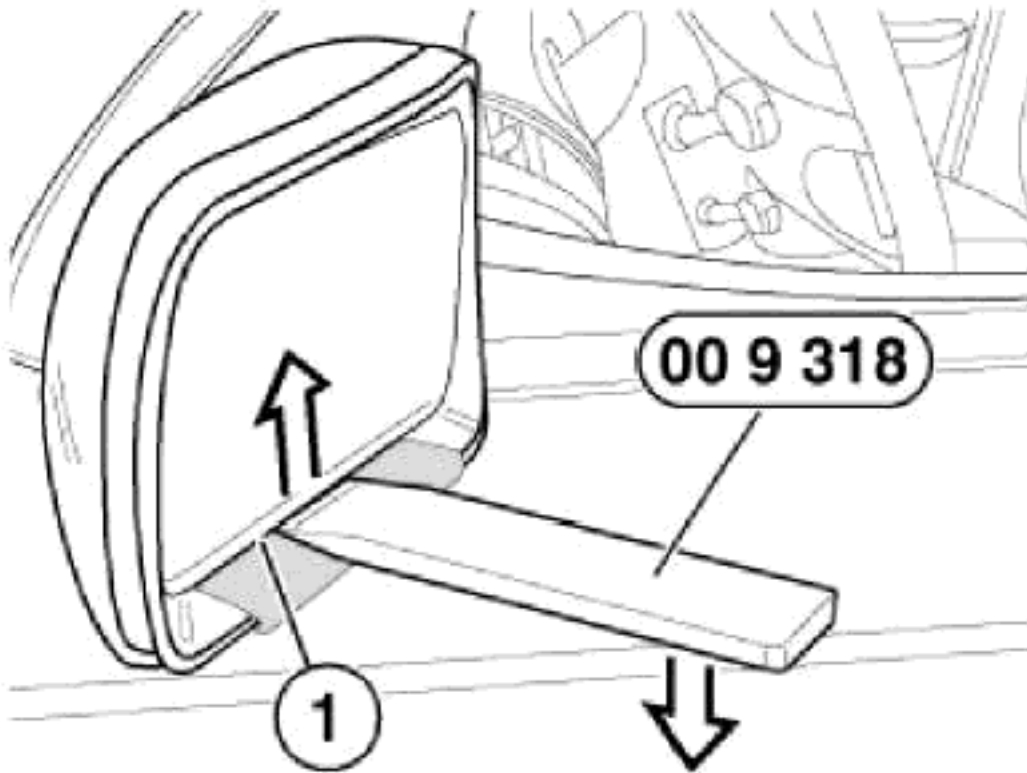
Carry out function check.

#### **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) (risk of damage).

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



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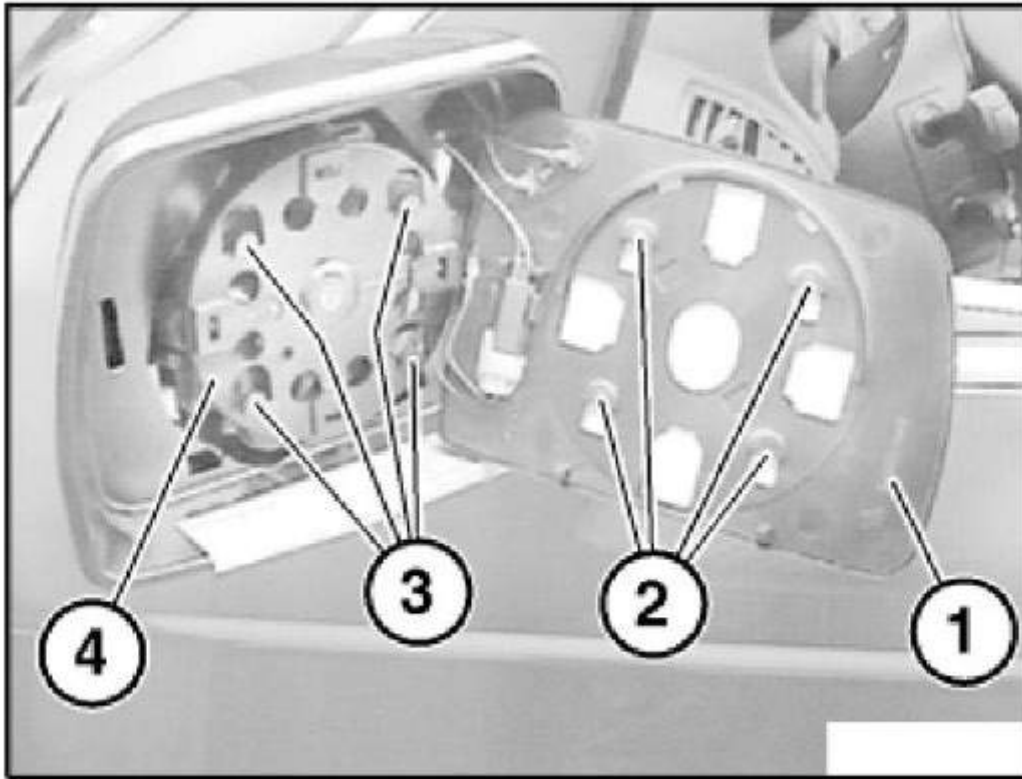
**Fig. 106: Removing Mirror Using Wedge**  
Courtesy of BMW OF NORTH AMERICA, INC.

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

**Installation:**

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

Carry out function check.



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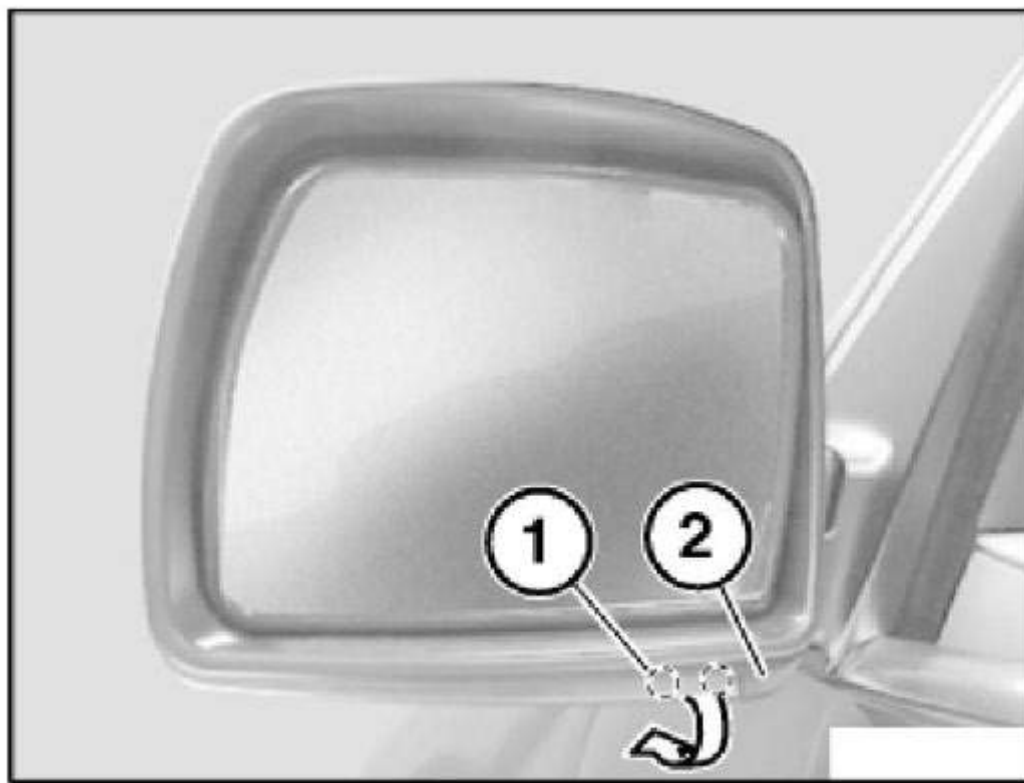
**Fig. 107: Locating Guides And Mounts of Mirror Glass**  
Courtesy of BMW OF NORTH AMERICA, INC.

#### **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).



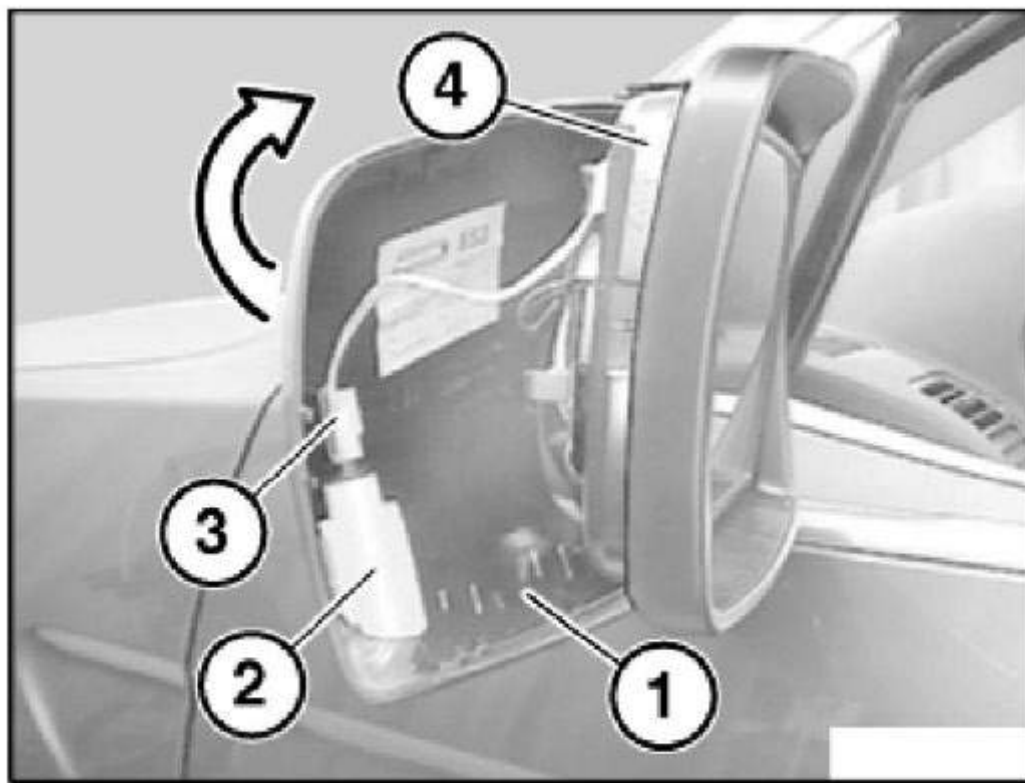
G03255684

**Fig. 108: 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).

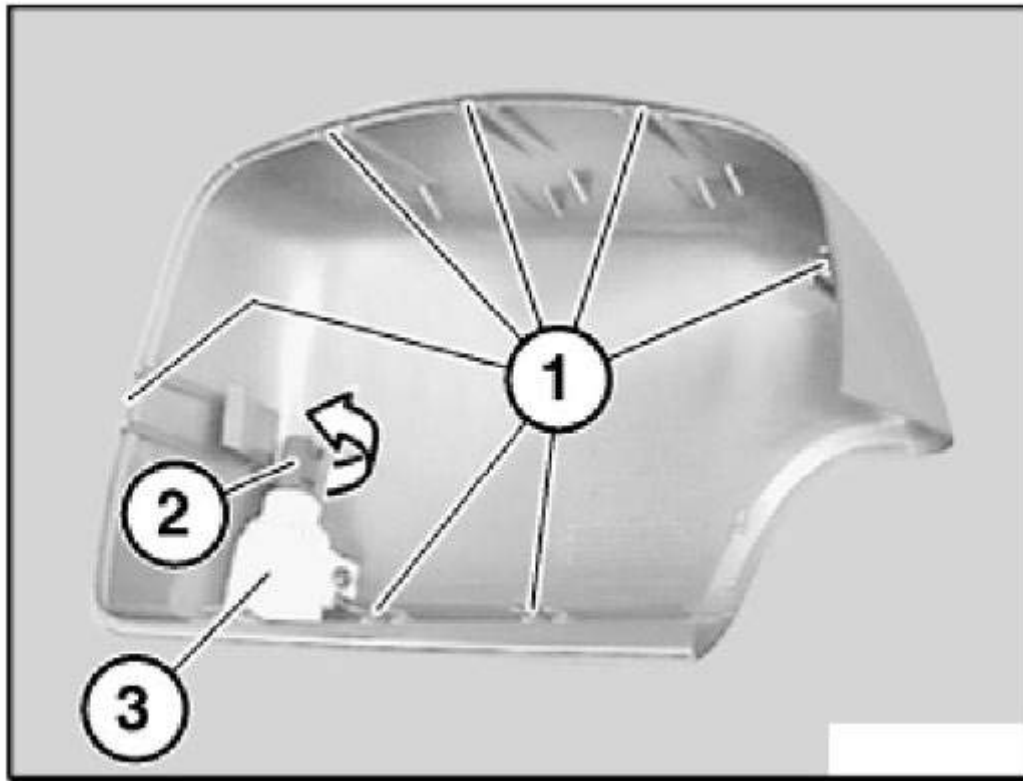


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**Fig. 109: Removing Mirror Cap From Mirror Foot**  
Courtesy of BMW OF NORTH AMERICA, INC.

**Installation:**

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



G03255686

**Fig. 110: Identifying Mirror Cap Catches**  
Courtesy of BMW OF NORTH AMERICA, INC.

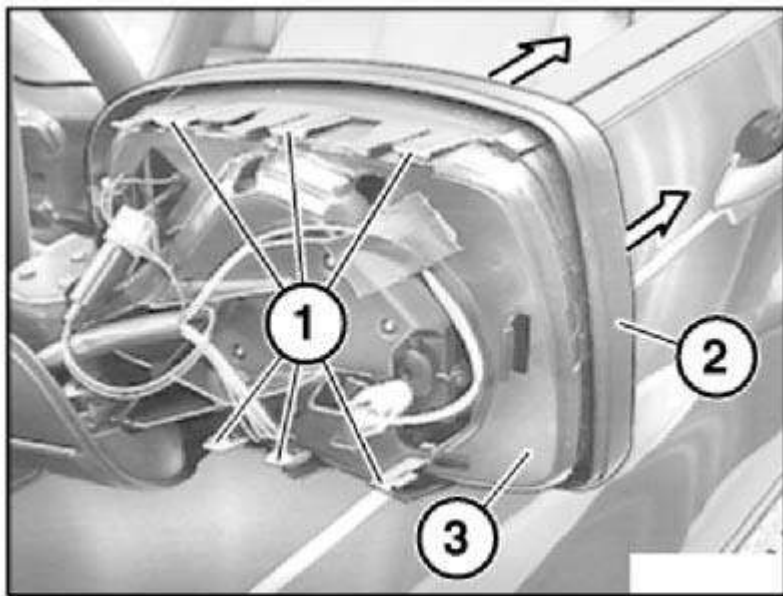
Only replace:

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

**Installation:**

Check function.

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

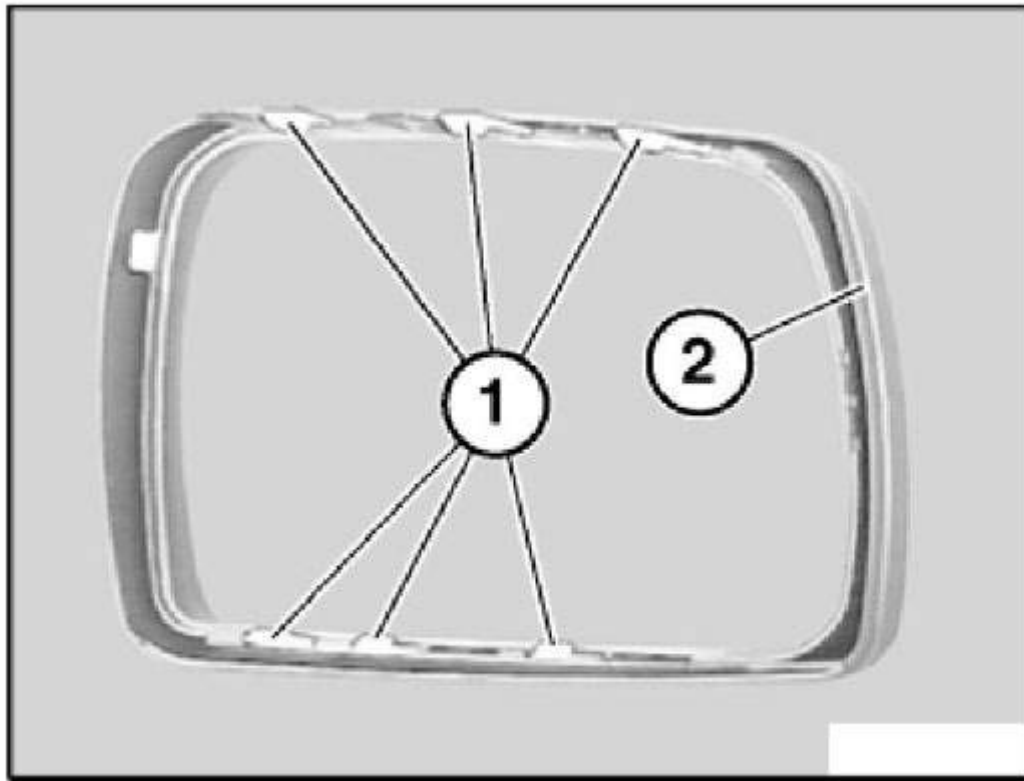


G03255687

**Fig. 111: Detaching Mirror Ring From Mirror Foot**  
Courtesy of BMW OF NORTH AMERICA, INC.

**Installation:**

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



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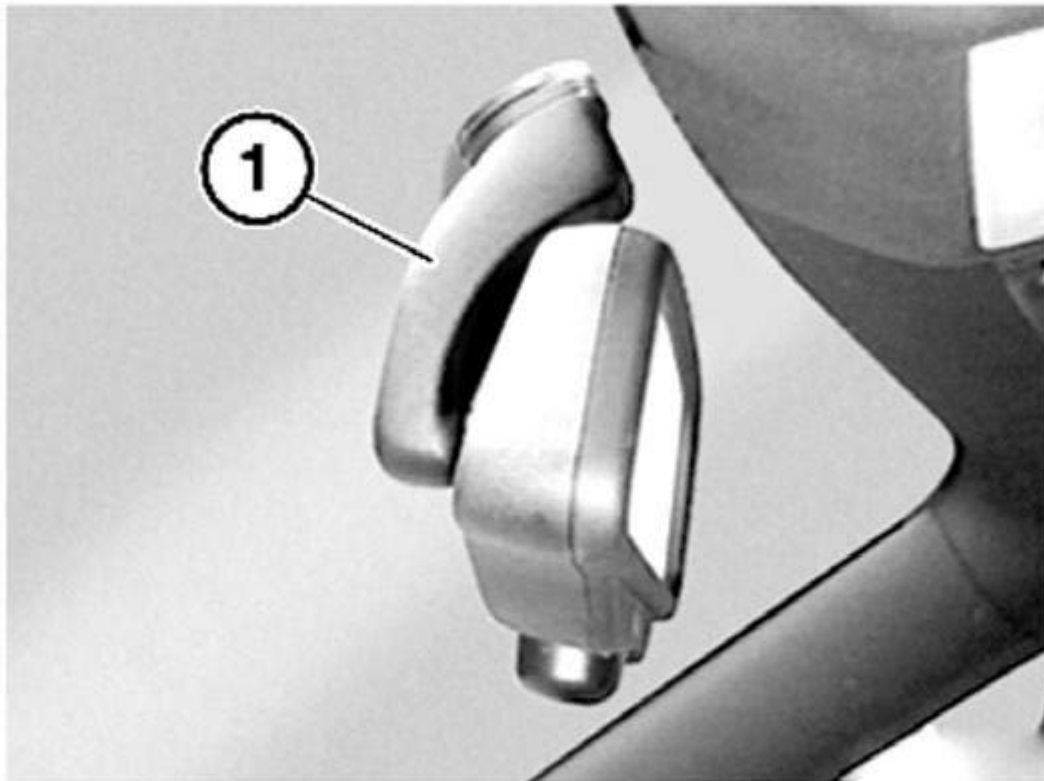
**Fig. 112: Locating Catches On Mirror Ring**  
Courtesy of BMW OF NORTH AMERICA, INC.

#### **51 16 060 REMOVING AND INSTALLING OR REPLACING INTERIOR REARVIEW MIRROR (OVERVIEW)**

**NOTE:**        **Version With Cable (X) For:**

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

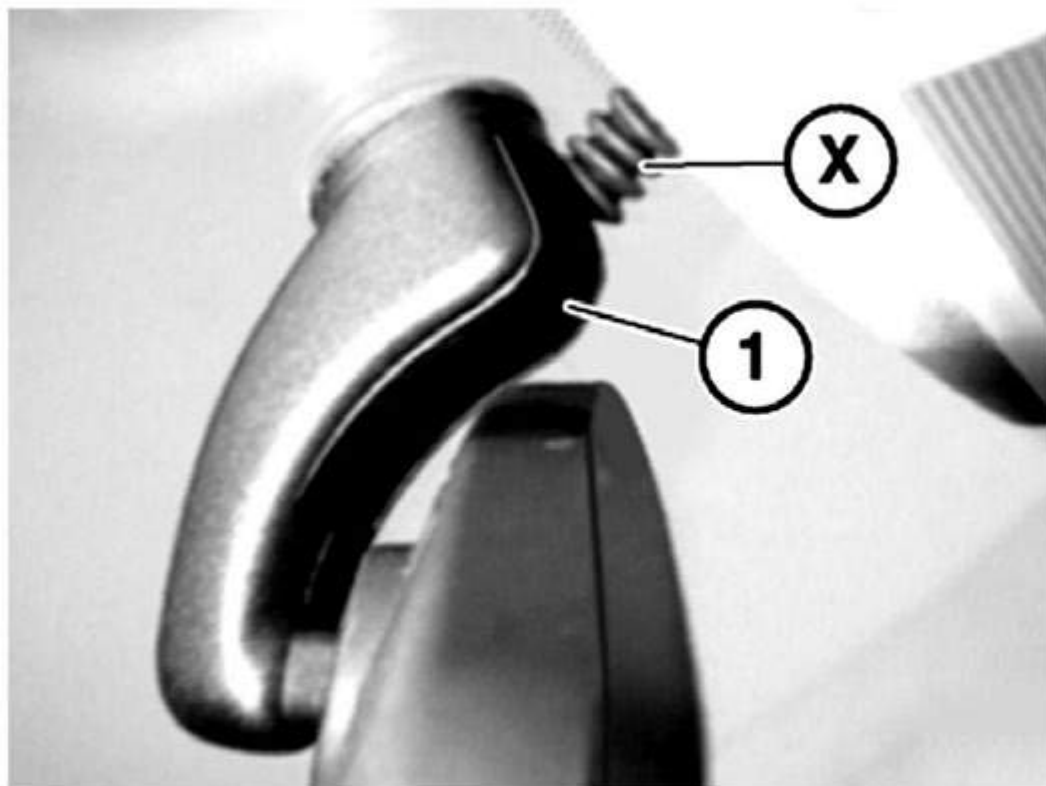
Version without cable (X) with full foot, refer to **51 16 060 REMOVING AND INSTALLING/REPLACING INTERIOR REARVIEW MIRROR (WITH FULL FOOT)** .



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**Fig. 113: Identifying Mirror With Full Foot**  
Courtesy of BMW OF NORTH AMERICA, INC.

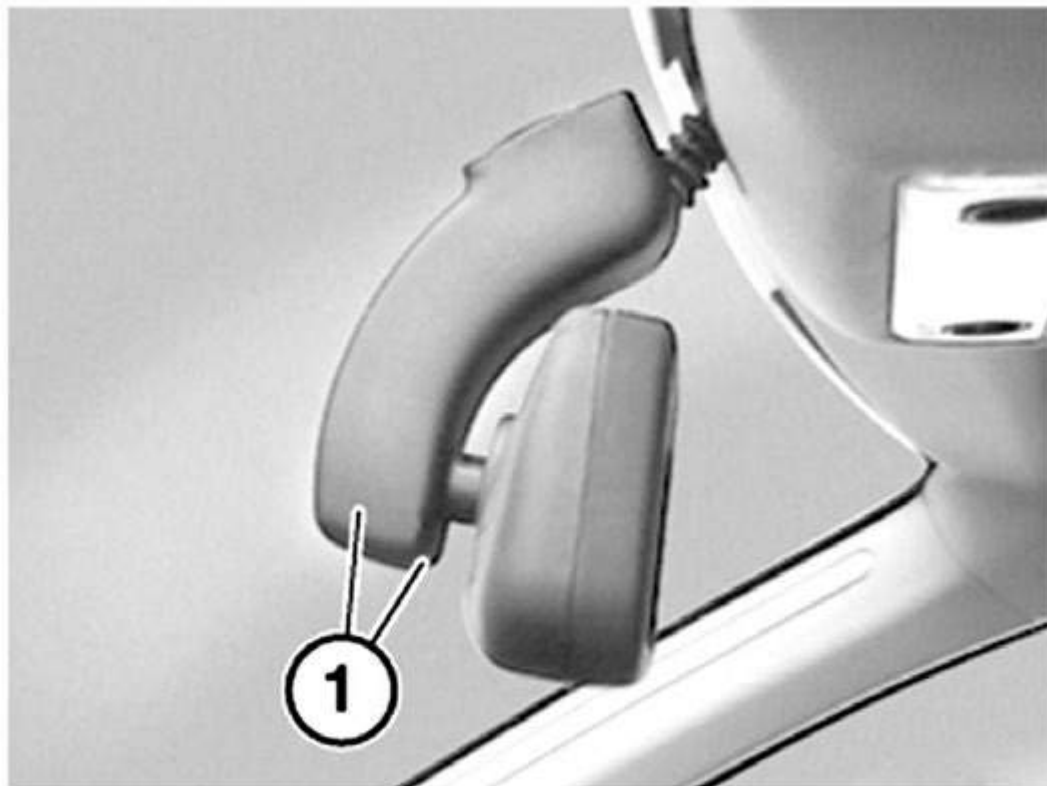
Version with cable (X) and with plug trim cover, refer to **51 16 060 REMOVING AND INSTALLING/REPLACING INTERIOR REARVIEW MIRROR (WITH "X" CABLE AND PLUG TRIM COVER)** .



G00410084

**Fig. 114: Identifying Mirror With Cable And Plug Trim Cover**  
Courtesy of BMW OF NORTH AMERICA, INC.

Version with cable with mirror arm end caps, refer to **51 16 060 REMOVING AND INSTALLING/REPLACING INTERIOR REARVIEW MIRROR (WITH MIRROR ARM END CAPS)** .



G00410085

**Fig. 115: Identifying Mirror With Mirror Arm End Caps**

**Courtesy of BMW OF NORTH AMERICA, INC.**

Version with rain sensor, refer to **51 16 060 REMOVING AND INSTALLING/REPLACING INTERIOR REARVIEW MIRROR (WITH RAIN SENSOR)** .



G00410086

**Fig. 116: Identifying Mirror With Rain Sensor**  
Courtesy of BMW OF NORTH AMERICA, INC.

**51 16 060 REMOVING AND INSTALLING/REPLACING INTERIOR REARVIEW MIRROR (WITH "X" CABLE AND PLUG TRIM COVER)**

**Version With Remote Control For Central Locking:**

If necessary, disconnect negative lead from battery. Refer to **12 00 ... INSTRUCTIONS FOR DISCONNECTING AND CONNECTING BATTERY** .

**Version With Compass:**

Check compass function if replacing or after disconnecting interior mirror plug connection or battery.

If necessary, calibrate compass in interior rearview mirror. Refer to **51 16 ... CALIBRATING COMPASS IN INTERIOR REARVIEW MIRROR** .

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

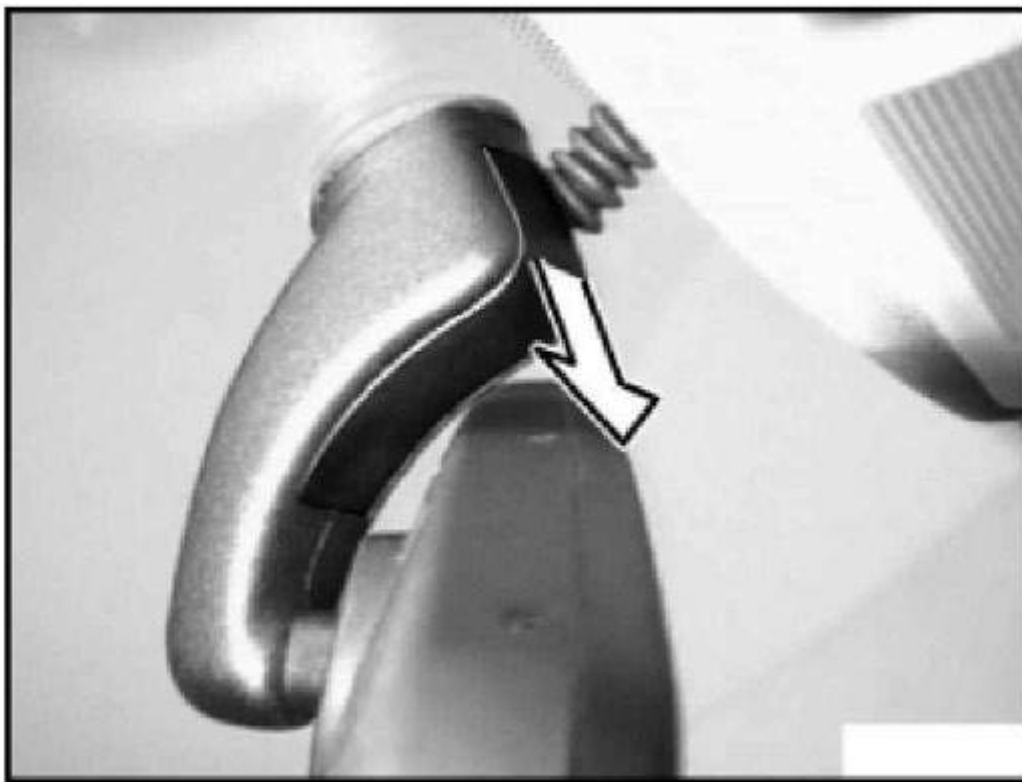
**breakage).**

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.

Lever out plug trim cover in direction of arrow and disconnect plug connection underneath.



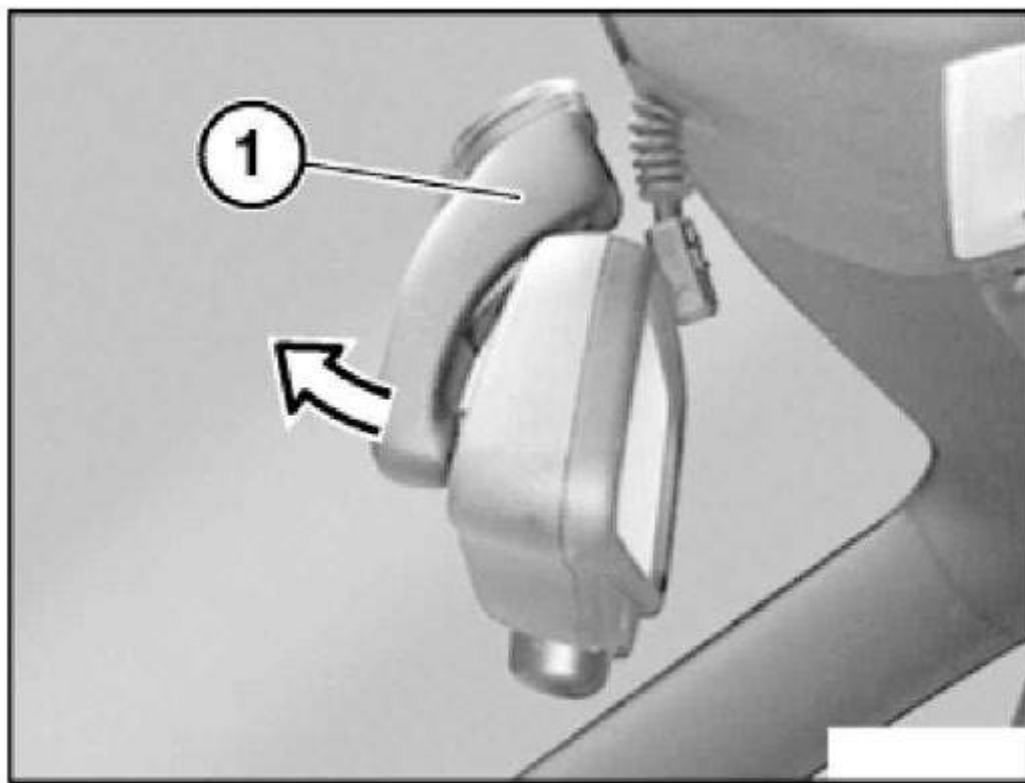
G03168650

**Fig. 117: Levering Out Plug Cover**

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.



G03168651

**Fig. 118: Removing Interior Mirror From Mirror Mount**  
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.

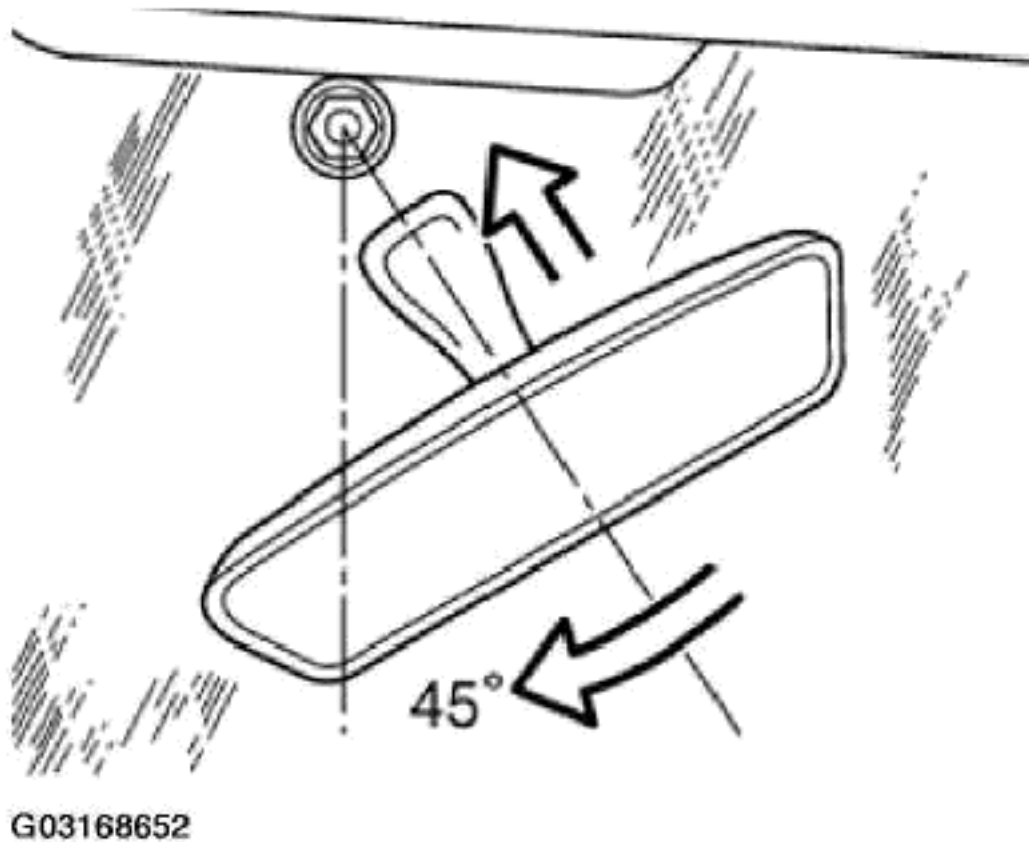


**Fig. 119: Installing Mirror Foot**

Courtesy of BMW OF NORTH AMERICA, INC.

**Only Replace With Version With Remote Control For Central Locking:**

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

**51 16 060 REMOVING AND INSTALLING/REPLACING INTERIOR REARVIEW MIRROR (WITH FULL FOOT)**

**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.

**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.

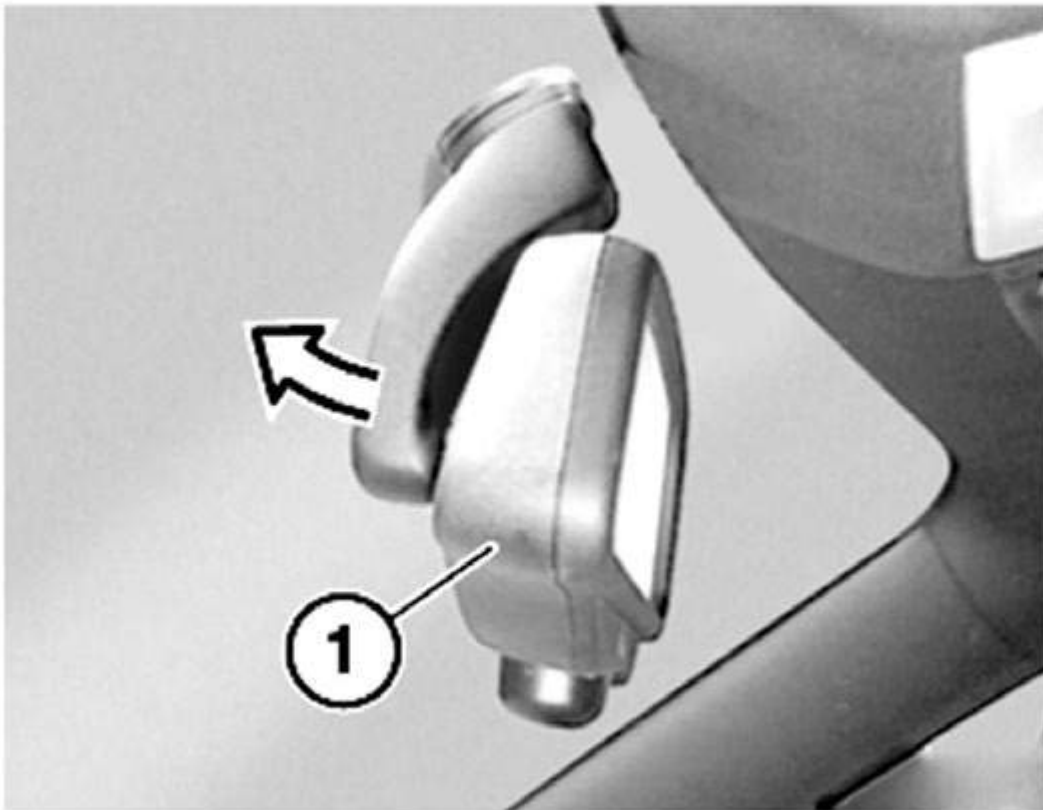


**Fig. 120: Removing Interior Mirror From Mirror Mount**  
Courtesy of BMW OF NORTH AMERICA, INC.

**Installation:**

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

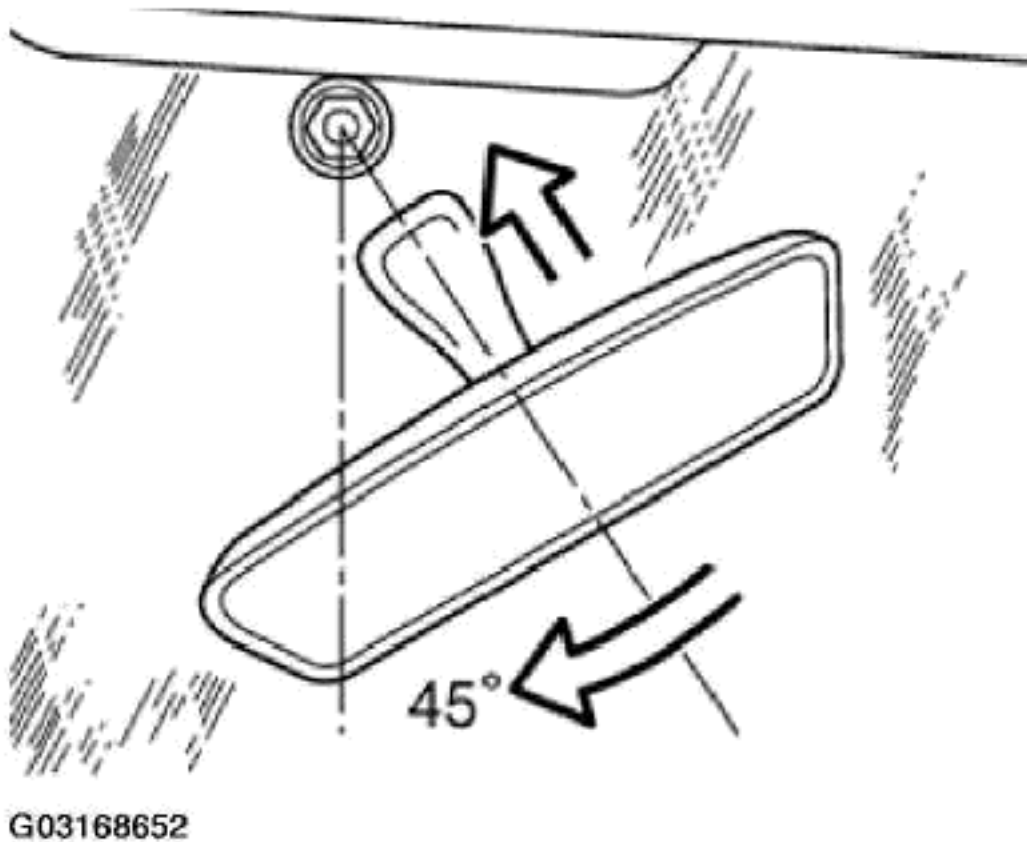


**Fig. 121: Turning Mirror Foot**

Courtesy of BMW OF NORTH AMERICA, INC.

#### **51 16 060 REMOVING AND INSTALLING/REPLACING INTERIOR REARVIEW MIRROR (WITH MIRROR ARM END CAPS)**

##### **Version With Remote Control For Central Locking:**

If necessary, disconnect negative lead from battery. Refer to **12 00 ... INSTRUCTIONS FOR DISCONNECTING AND CONNECTING BATTERY** .

##### **Version With Compass:**

Check compass function if replacing or after disconnecting interior mirror plug connection or battery.

If necessary, calibrate compass in interior rearview mirror. Refer to **51 16 ... CALIBRATING COMPASS IN INTERIOR REARVIEW MIRROR** .

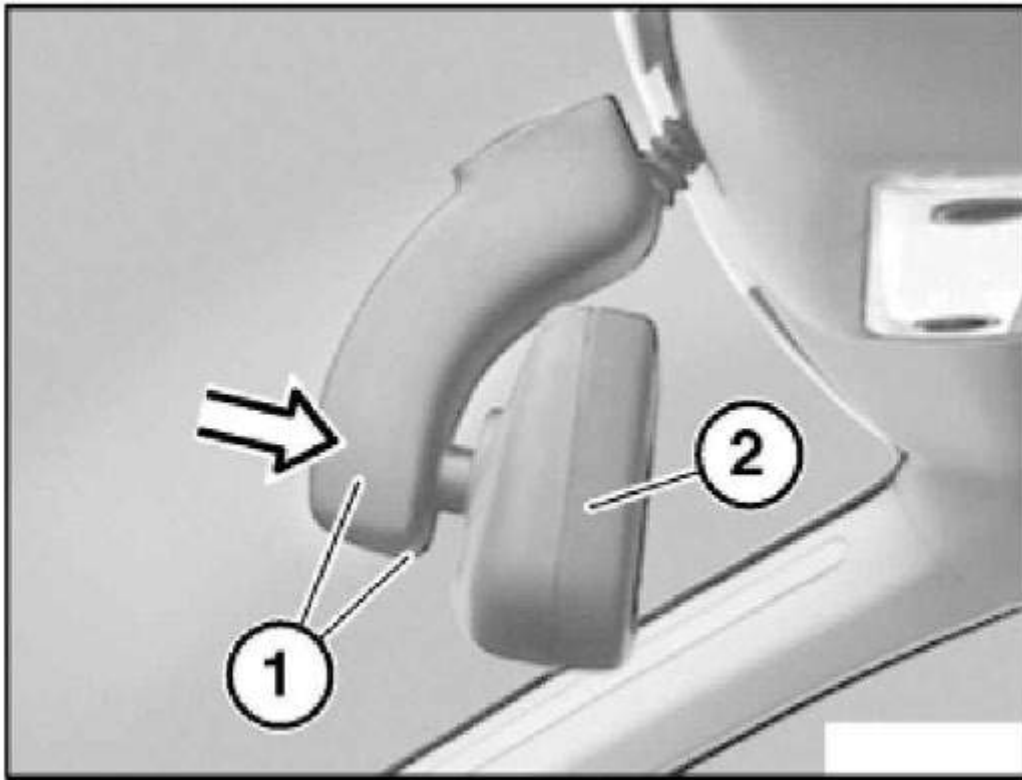
**IMPORTANT: Do not snap out the interior rearview mirror (1) towards the rear (windscreen breakage).**

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.

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

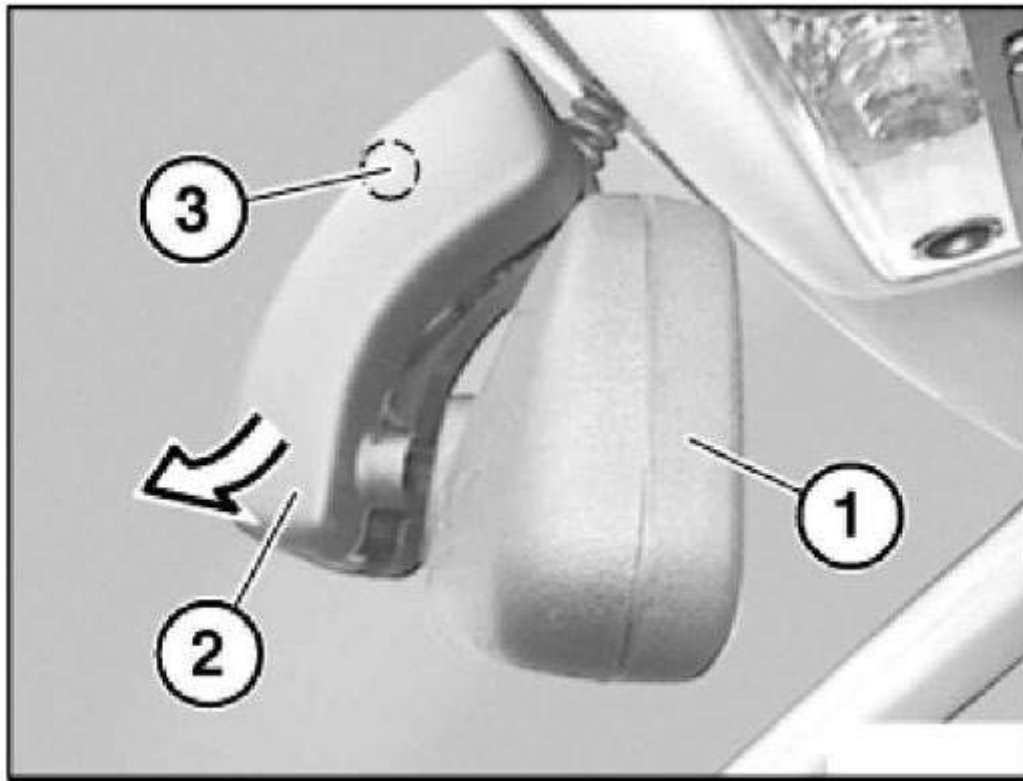


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**Fig. 122: Pressing End Caps Towards Mirror Housing**  
Courtesy of BMW OF NORTH AMERICA, INC.

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

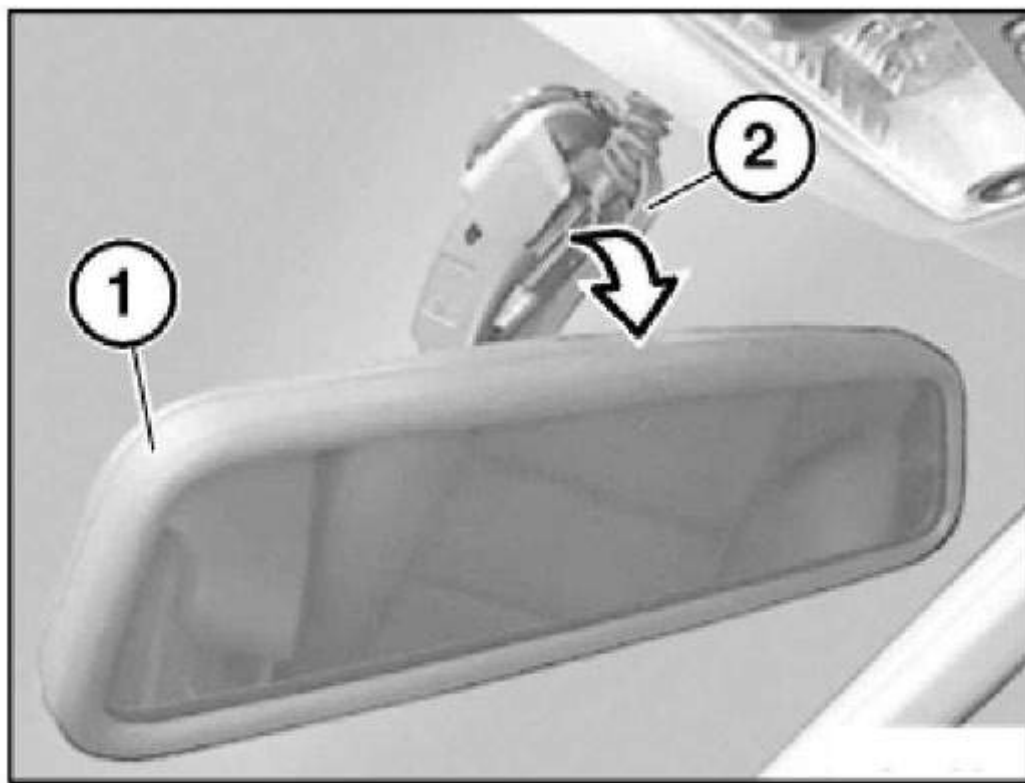


G03168654

**Fig. 123: Twisting Mirror At An Angle (Right)**  
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.

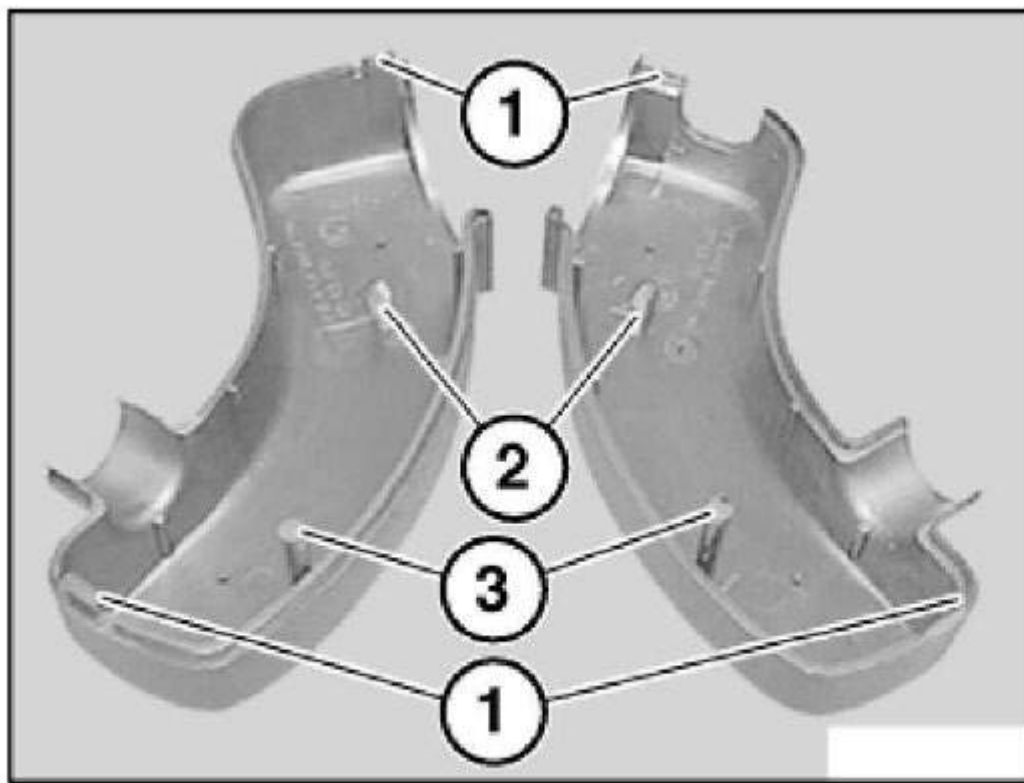


G03168655

**Fig. 124: Twisting Mirror At An Angle (Left)**  
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.

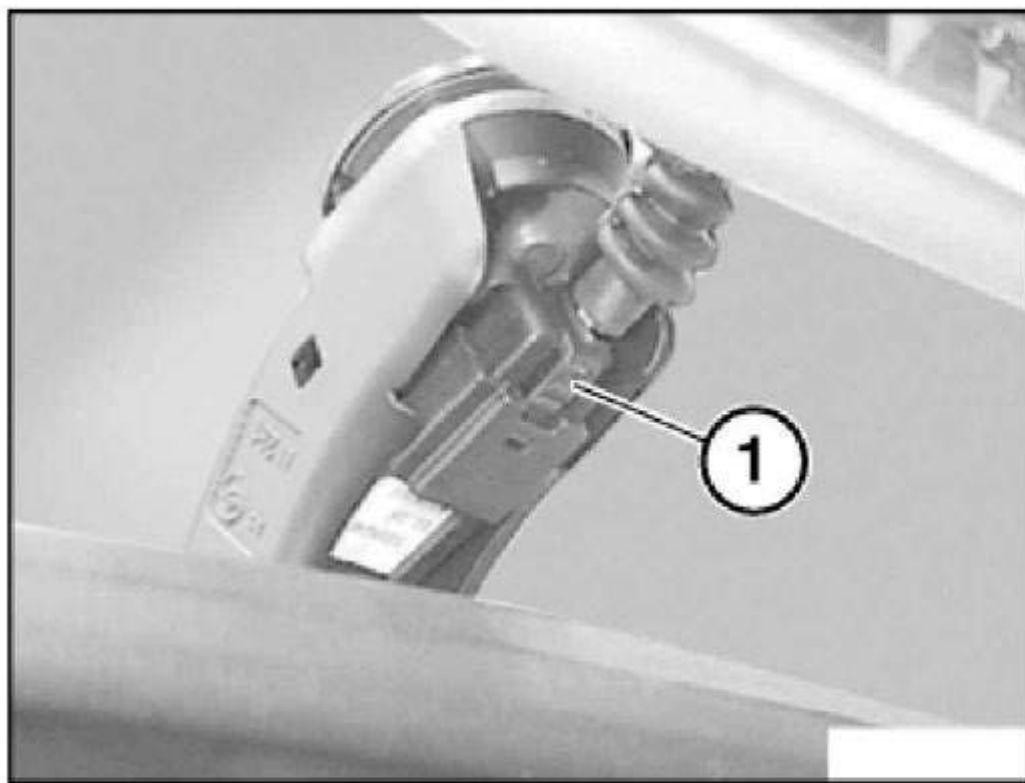


G03168658

**Fig. 125: Identifying Clips And Retaining Hooks Of End Caps**  
Courtesy of BMW OF NORTH AMERICA, INC.

**Version With Cable (X):**

Disconnect plug connection (1).



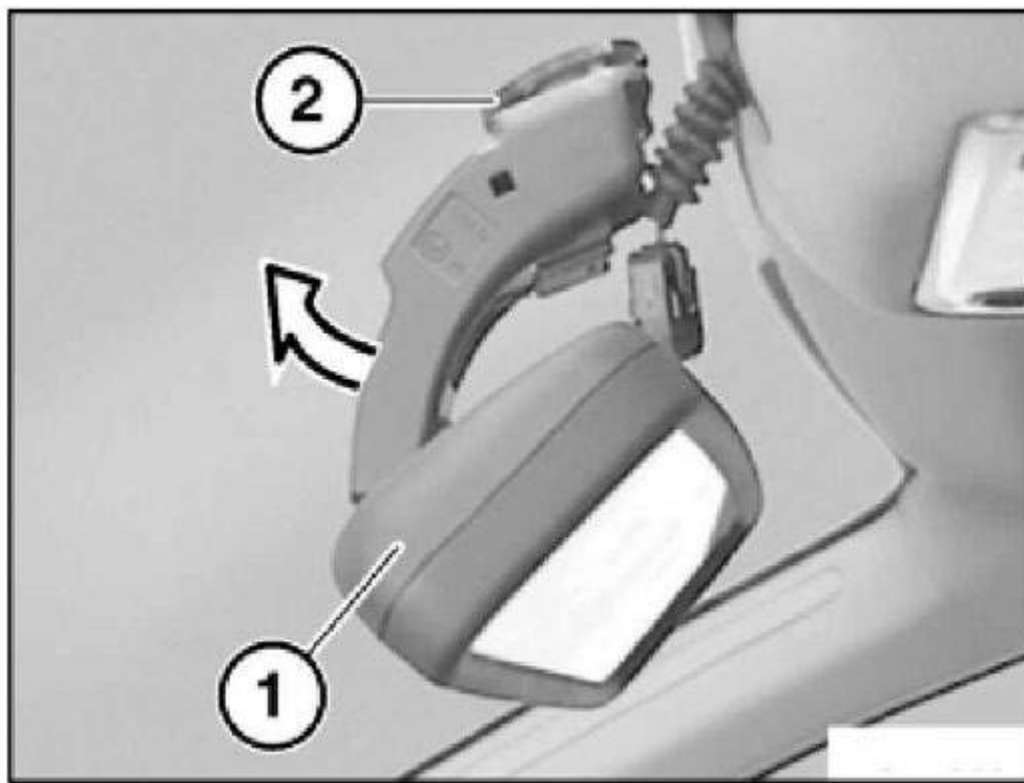
G03168656

**Fig. 126: 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.



G03168657

**Fig. 127: Snapping Out Interior Mirror From Mirror Mount**  
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.

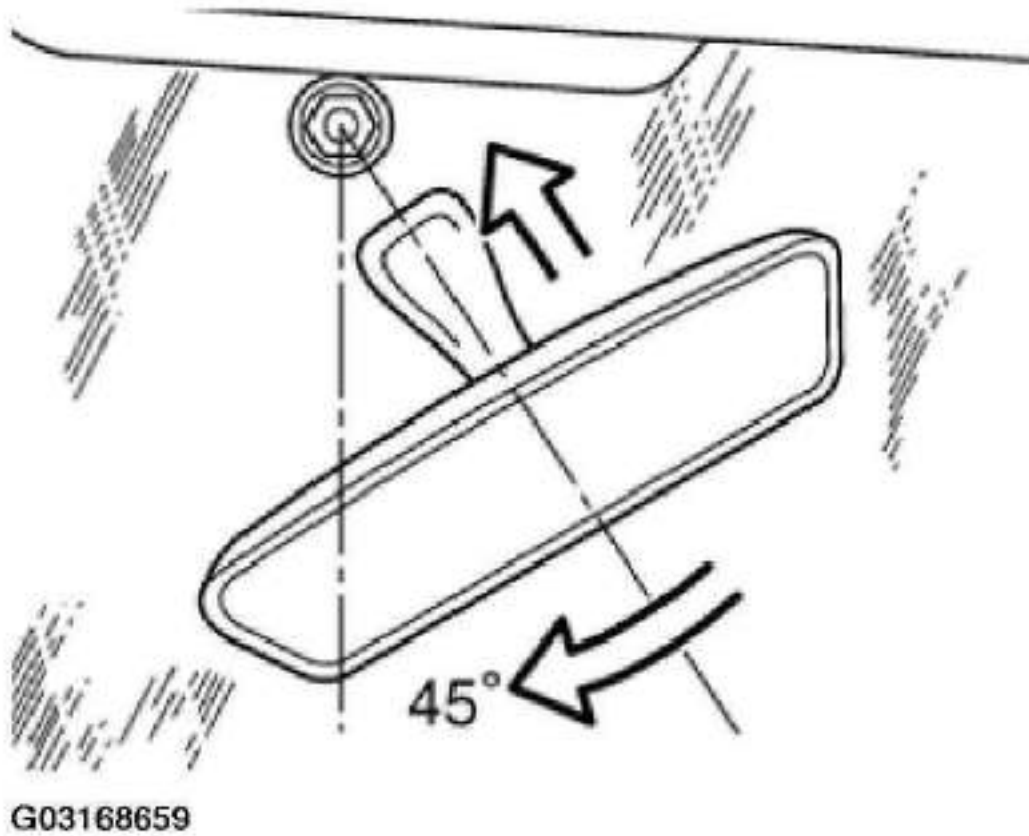


**Fig. 128: Turning Mirror Foot**

Courtesy of BMW OF NORTH AMERICA, INC.

**Only Replace With Version With Remote Control For Central Locking:**

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

**51 16 060 REMOVING AND INSTALLING/REPLACING INTERIOR REARVIEW MIRROR (WITH RAIN SENSOR)**

**Version With Remote Control For Central Locking:**

If necessary, disconnect negative lead from battery. Refer to **12 00 ... INSTRUCTIONS FOR DISCONNECTING AND CONNECTING BATTERY** .

**Version With Compass:**

Check compass function if replacing or after disconnecting interior mirror plug connection or battery.

If necessary, calibrate compass in interior rearview mirror. Refer to **51 16 ... CALIBRATING COMPASS IN INTERIOR REARVIEW MIRROR** .

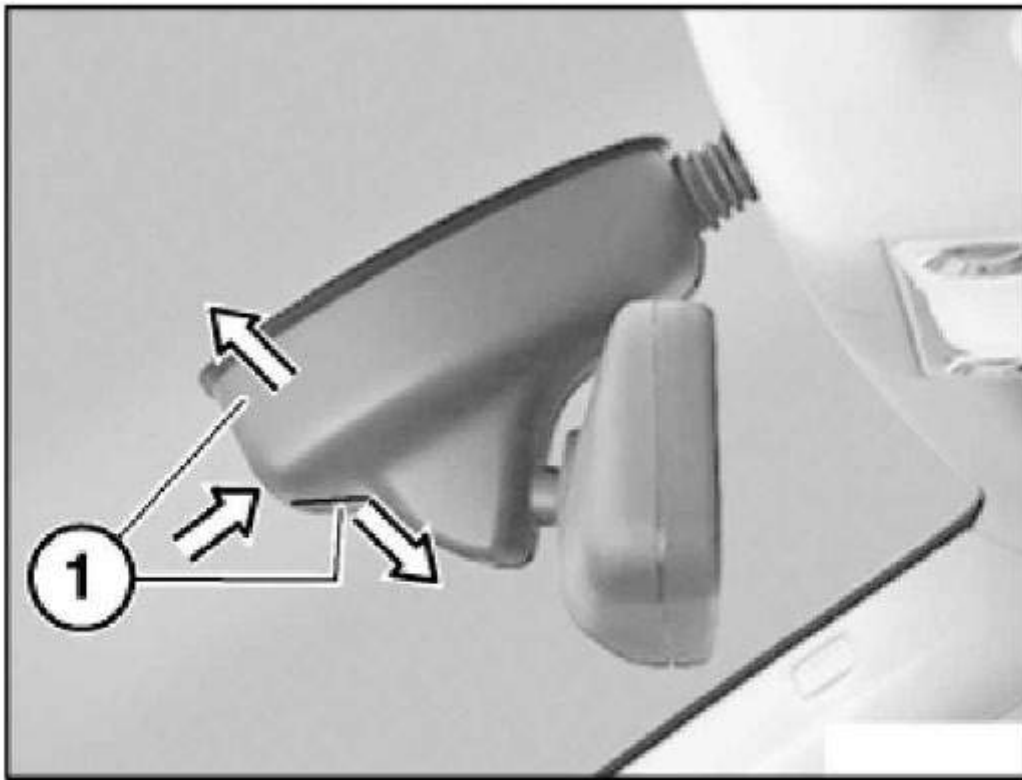
**IMPORTANT:** Do not snap out the interior rearview mirror (1) towards the rear (windscreen breakage).

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.

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



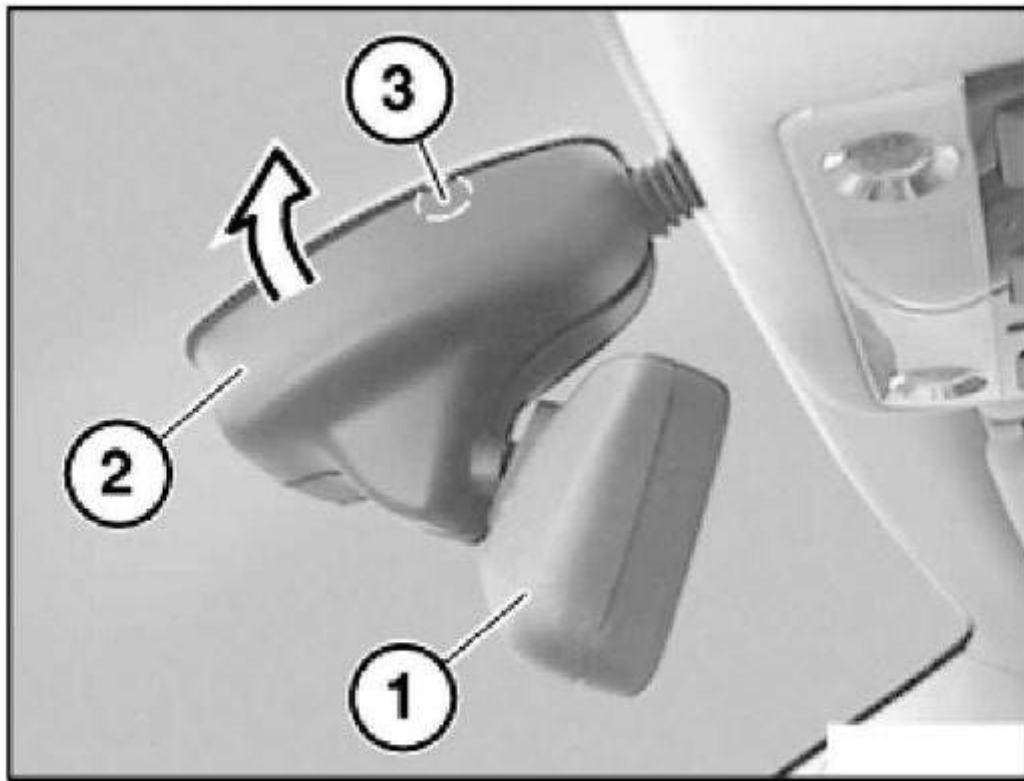
G03168660

**Fig. 129: 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.

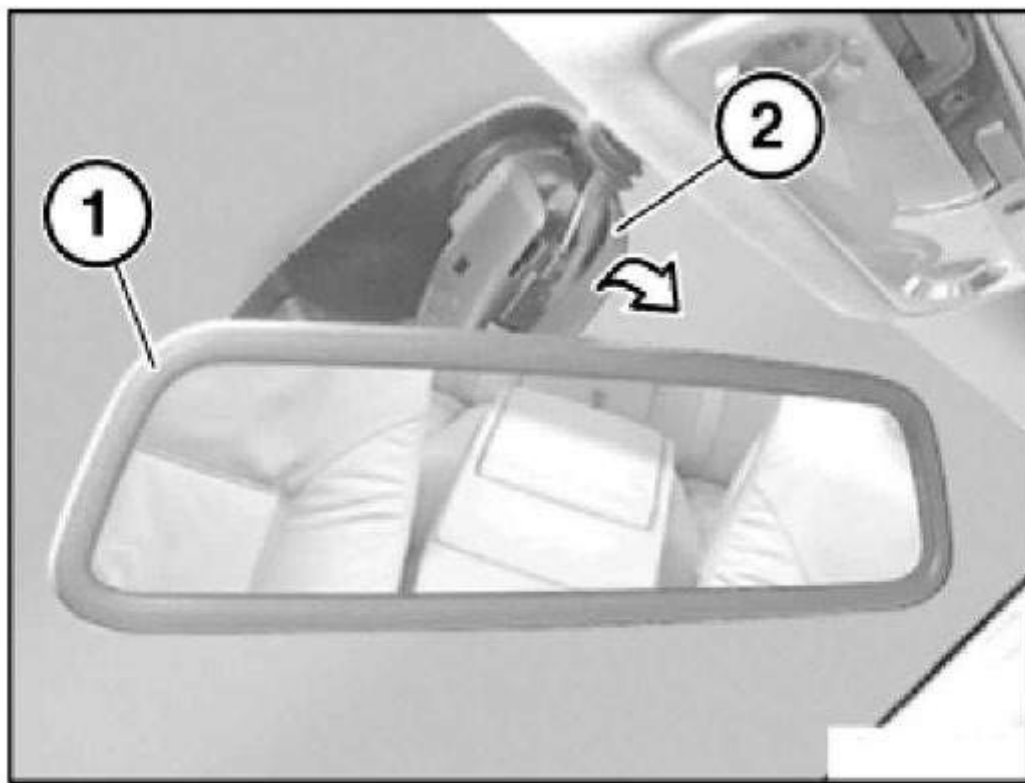


G03168661

**Fig. 130: Twisting Mirror At An Angle (Right)**  
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.

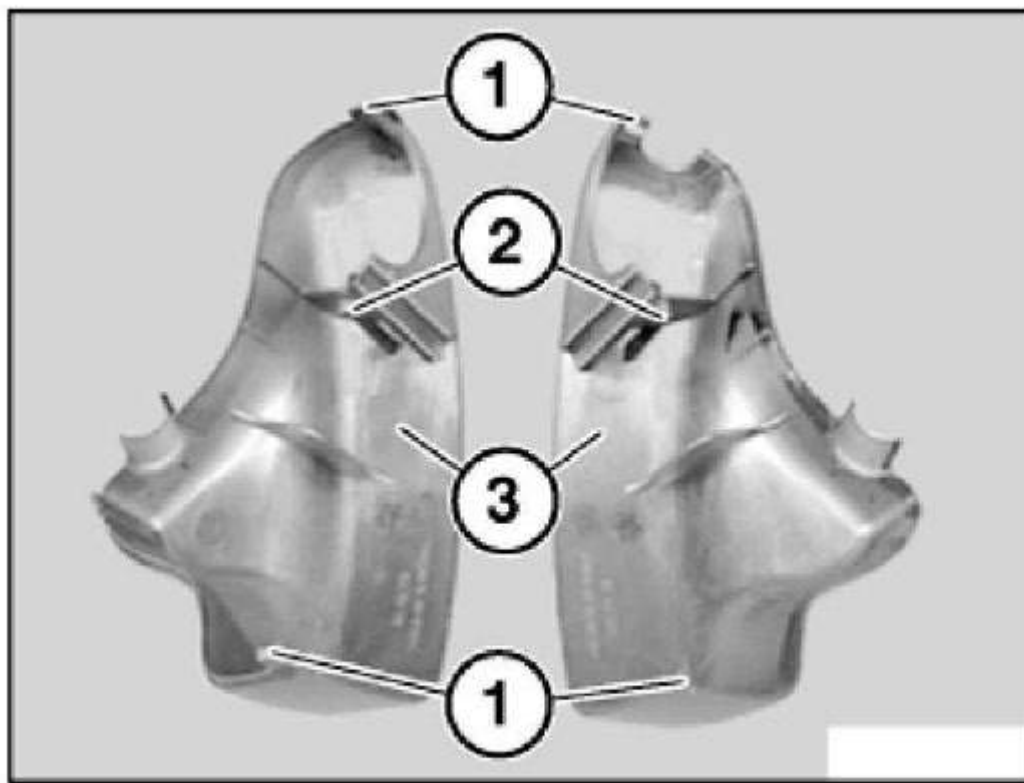


G03168662

**Fig. 131: Twisting Mirror At An Angle (Left)**  
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.

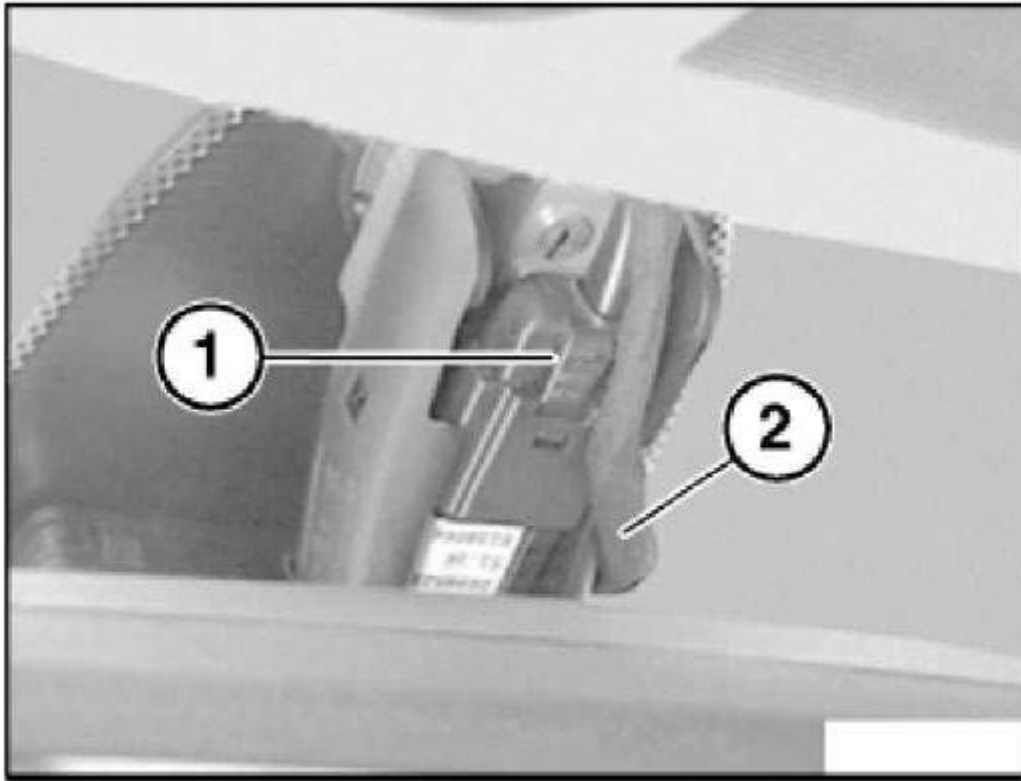


G03168665

**Fig. 132: Locating Clips And Retaining Hooks Of End Caps**  
Courtesy of BMW OF NORTH AMERICA, INC.

Disconnect plug connection (1).

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



G03168663

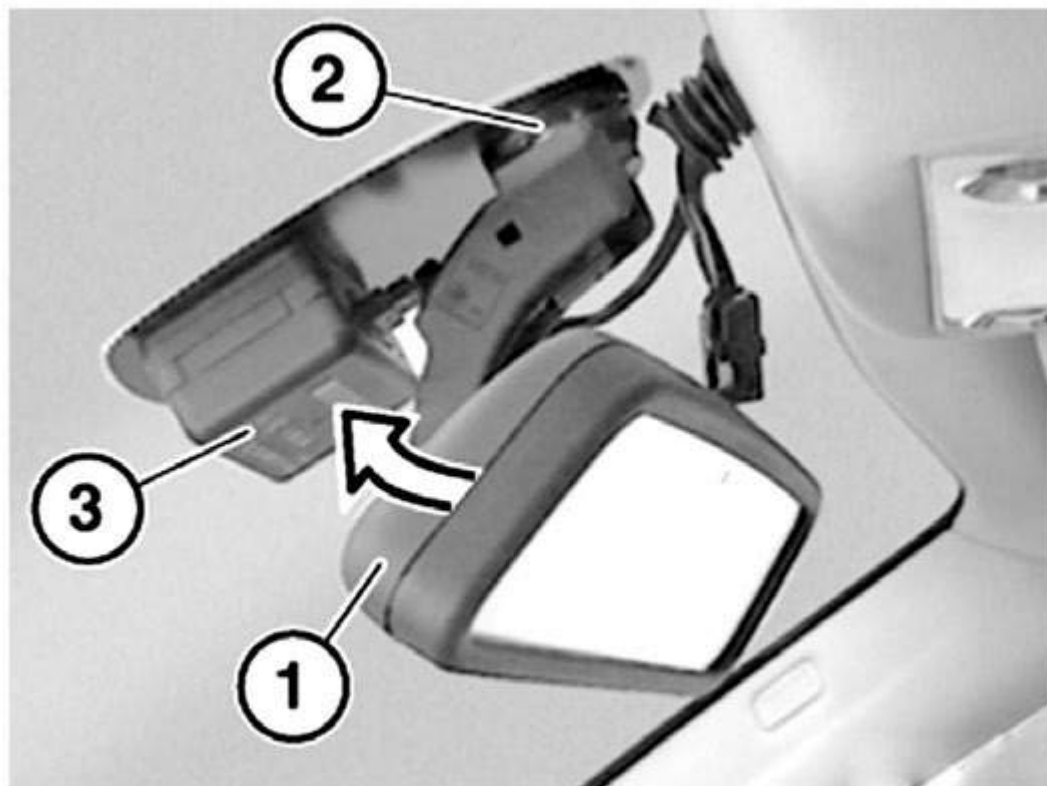
**Fig. 133: Disconnecting Plug Connection**

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.



G00410088

**Fig. 134: Identifying Damage Control Unit For Rain Sensor**  
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.

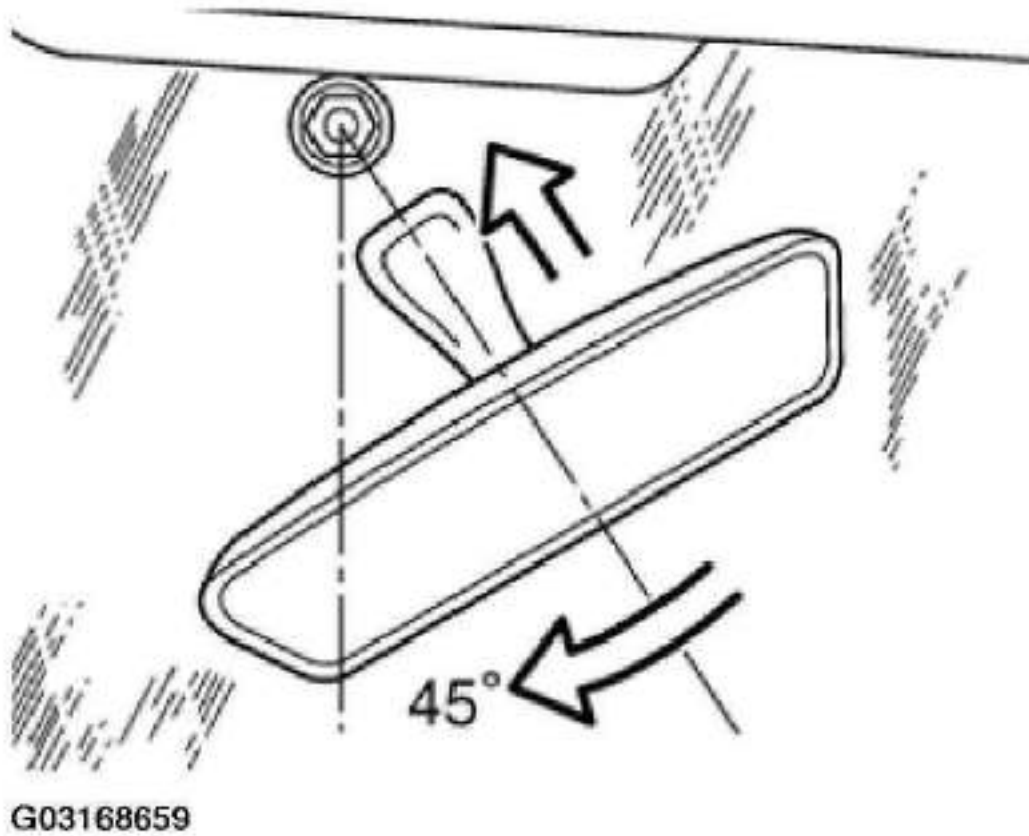


**Fig. 135: Turning Mirror Foot**

Courtesy of BMW OF NORTH AMERICA, INC.

**Only Replace With Version With Remote Control For Central Locking:**

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

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

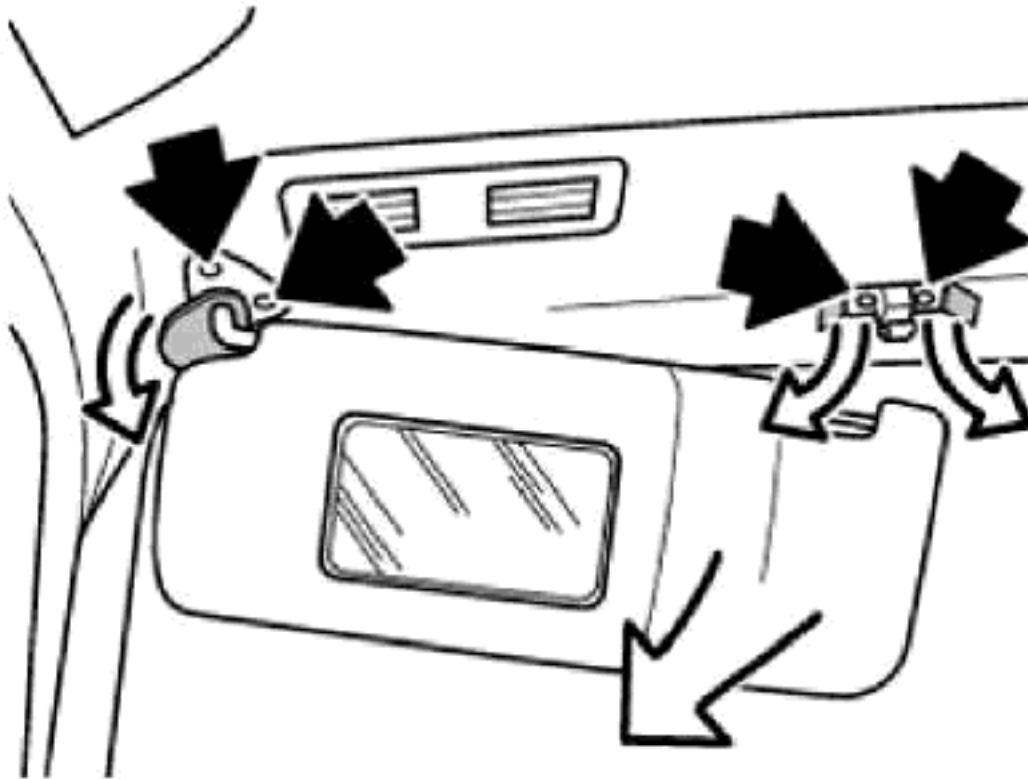
**Operation Is Identical To:**

Removing and installing/replacing interior rearview mirror. **51 16 060 REMOVING AND INSTALLING OR REPLACING INTERIOR REARVIEW MIRROR (OVERVIEW)** .

**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.



G03255706

**Fig. 136: Locating Screws At Sun Visor Counter Support And Joint**  
Courtesy of BMW OF NORTH AMERICA, INC.

Pull lighting wire out slightly and disconnect connector.

#### **Installation:**

Perform function check on lighting.

#### **51 16 200 REMOVING AND INSTALLING CENTER CONSOLE**

Remove bottom right trim panel from instrument panel. Refer to **51 45 181 REMOVING AND INSTALLING/REPLACING TRIM FOR INSTRUMENT PANEL, BOTTOM RIGHT** .

Remove trim panel for pedal assembly. Refer to **51 45 185 REMOVING AND INSTALLING/REPLACING TRIM FOR PEDAL ASSEMBLY** .

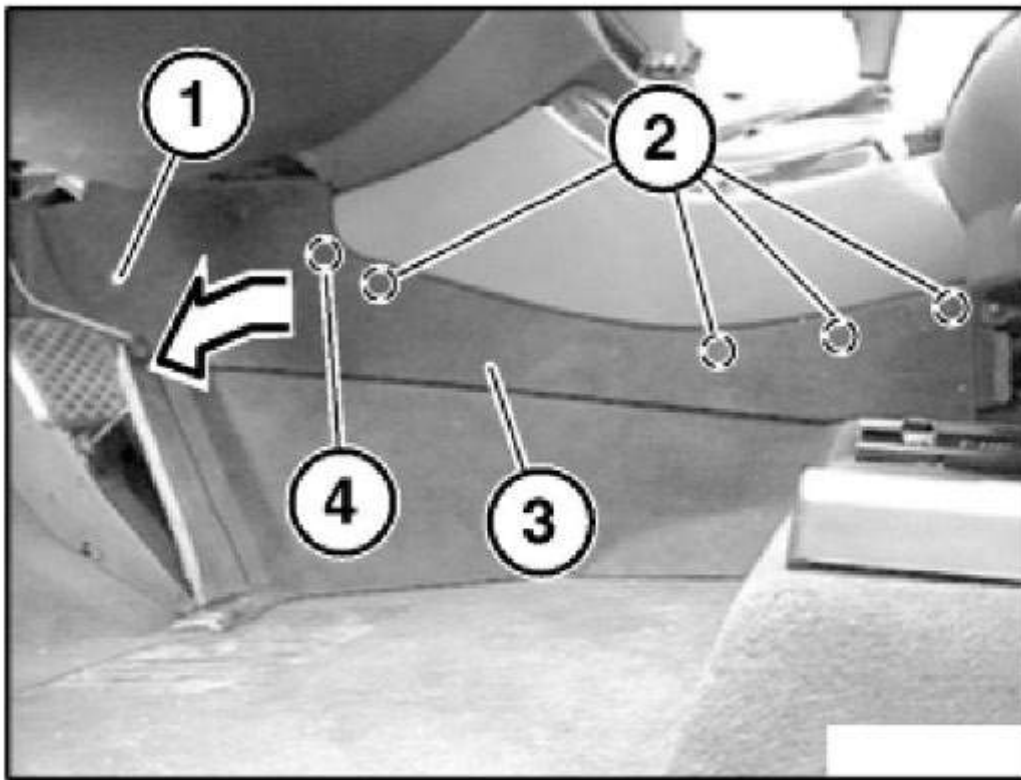
Remove switch for hazard warning system/central locking. Refer to **61 31 079 REMOVING AND INSTALLING/REPLACING SWITCH FOR HAZARD WARNING FLASHERS/CENTRAL LOCKING** .

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

Release center console at rear. Refer to **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.



G03255707

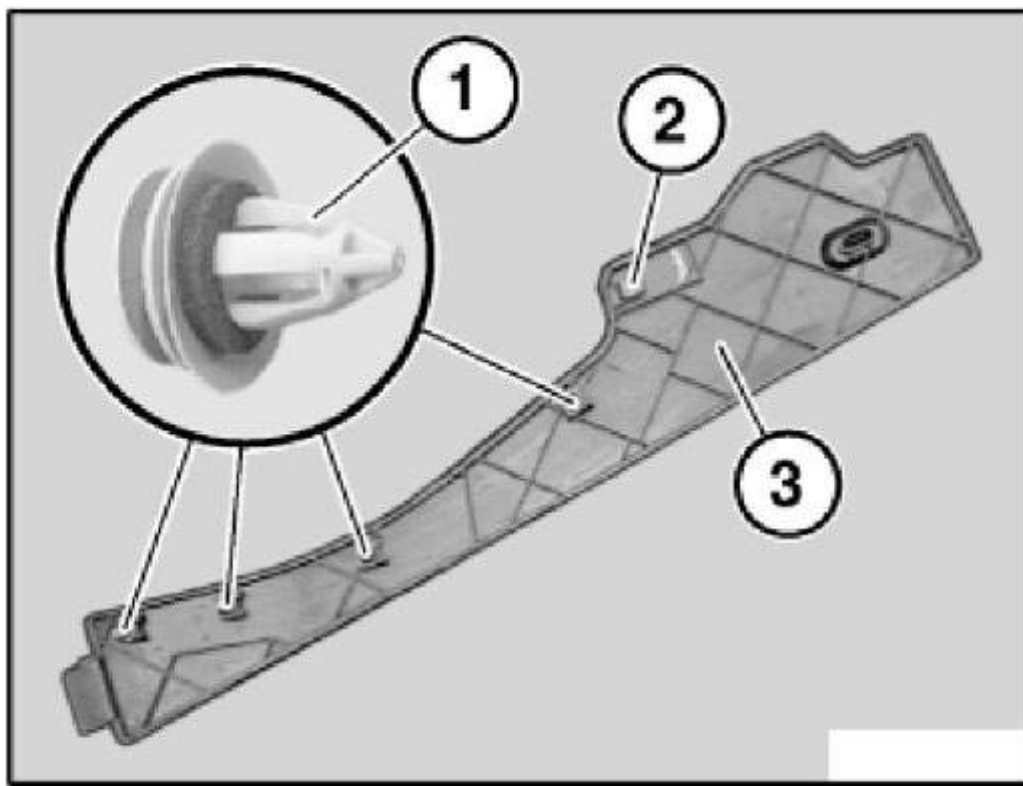
**Fig. 137: Locating Clips On Side Carpet**

**Courtesy of BMW OF NORTH AMERICA, INC.**

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

**Installation:**

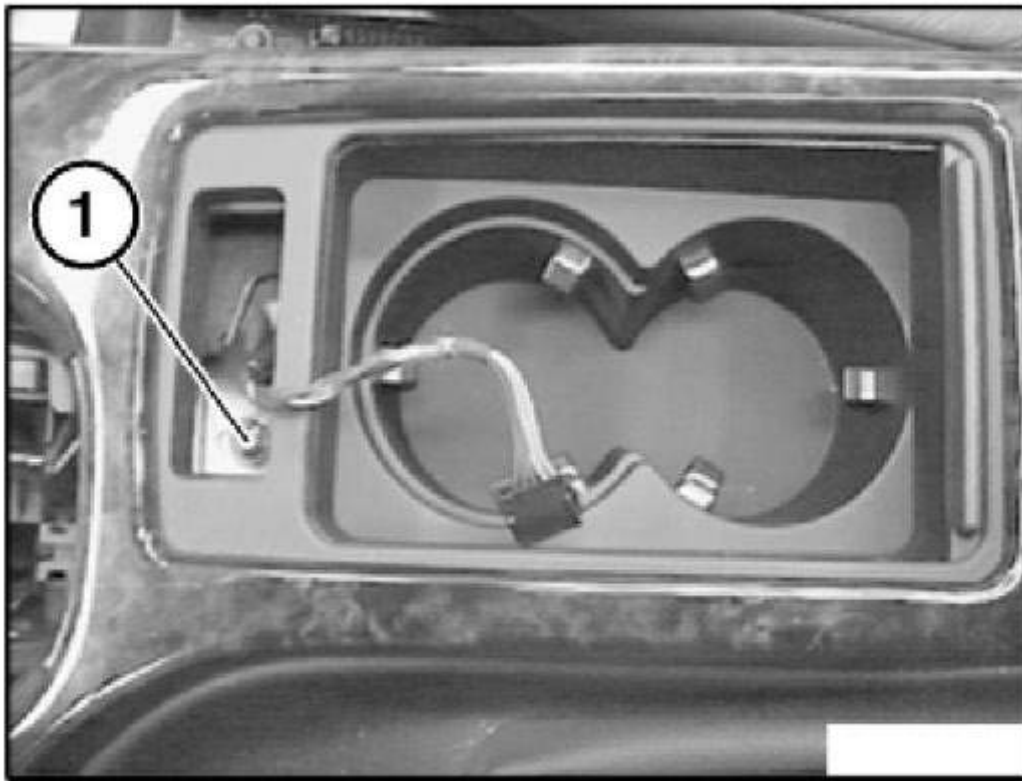
If necessary, replace faulty clips (1) with sealing washer and retainer (2) on side carpet (3).



G03255708

**Fig. 138: View Of Clips For Side Carpet**  
**Courtesy of BMW OF NORTH AMERICA, INC.**

Release screw (1).



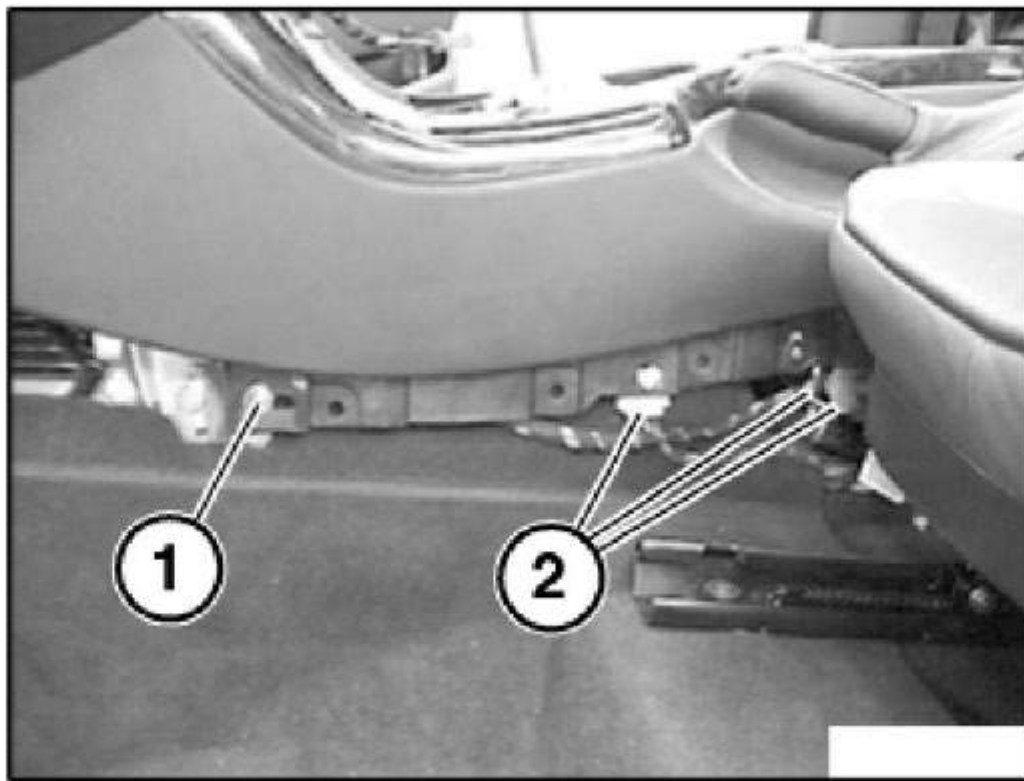
G03255709

**Fig. 139: Releasing Screw**

Courtesy of BMW OF NORTH AMERICA, INC.

Release left/right screws (1).

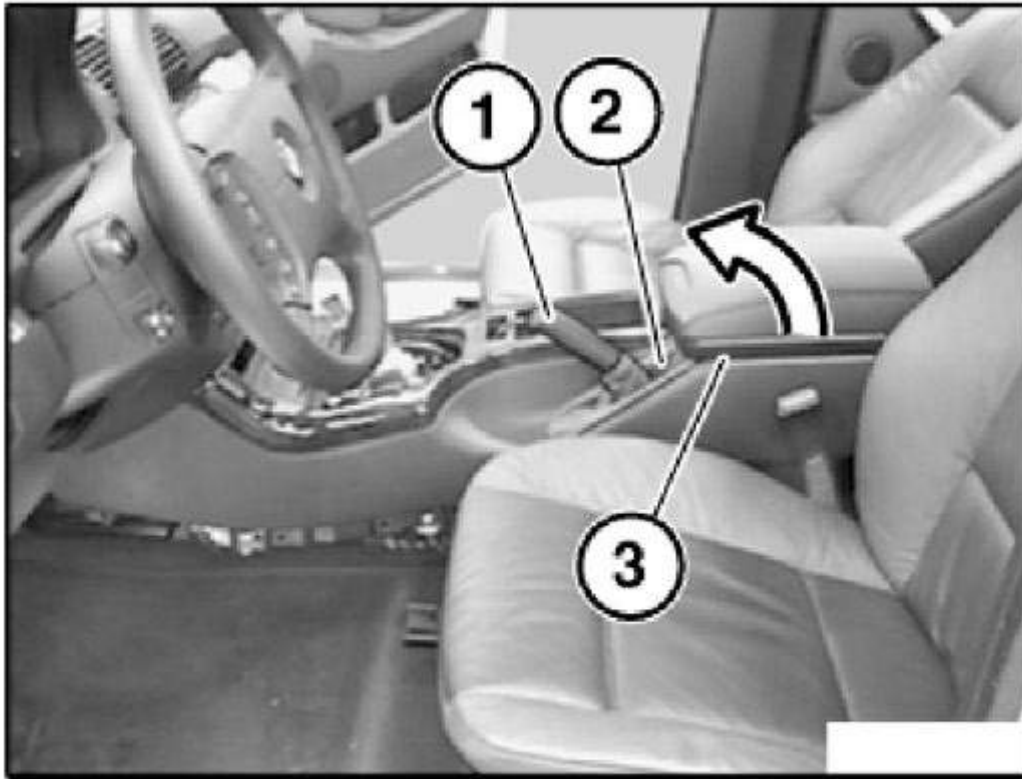
Disconnect plug connections (2).



G03255710

**Fig. 140: Locating Plug Connections**  
Courtesy of BMW OF NORTH AMERICA, INC.

Apply handbrake lever (1) to max. setting.



G03255711

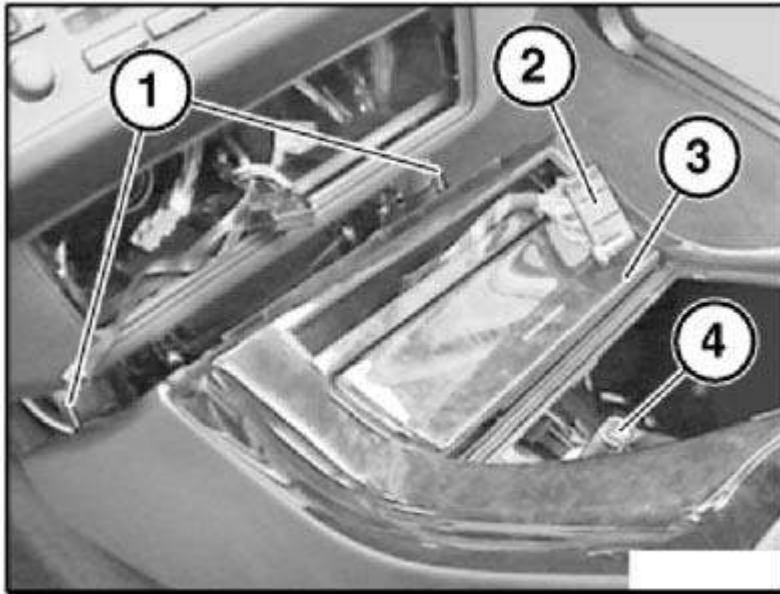
**Fig. 141: View Of Handbrake Lever In Maximum Setting**  
Courtesy of BMW OF NORTH AMERICA, INC.

Unclip rubber gaiter (2).

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

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

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



G03255712

**Fig. 142: Lifting Center Console Over Shift Stick**  
Courtesy of BMW OF NORTH AMERICA, INC.

**Installation:**

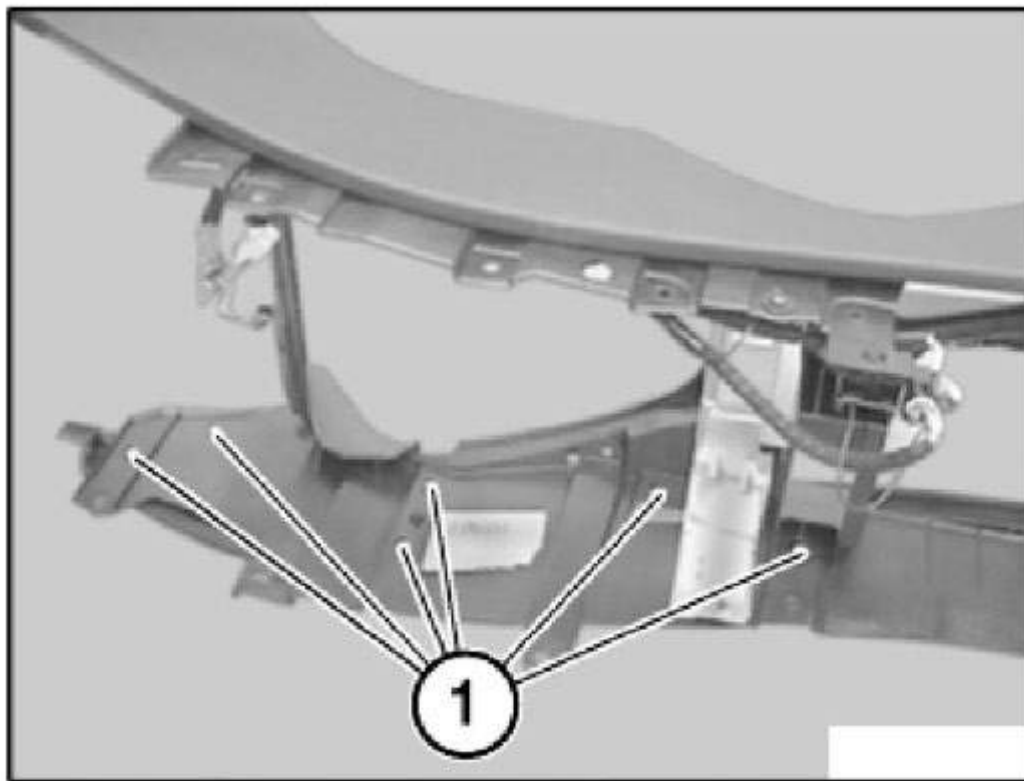
Guides (1) must not be damaged.

**51 16 201 REPLACING CENTER CONSOLE**

Remove trims for center console. Refer to **51 16 220 REPLACING TRIMS FOR CENTER CONSOLE** .

Remove rear center console with cup holder. Refer to **51 16 204 REMOVING AND INSTALLING/REPLACING REAR CUP HOLDER** .

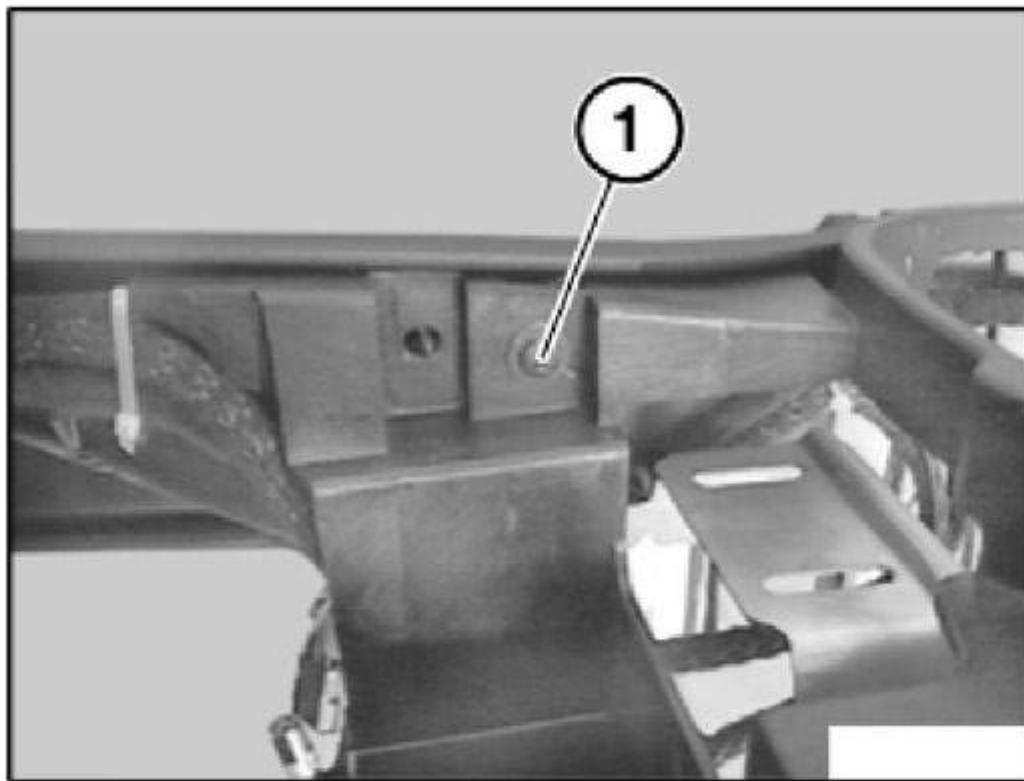
Release left/right screws (1).



G03255713

**Fig. 143: Locating Left/Right Screws**  
Courtesy of BMW OF NORTH AMERICA, INC.

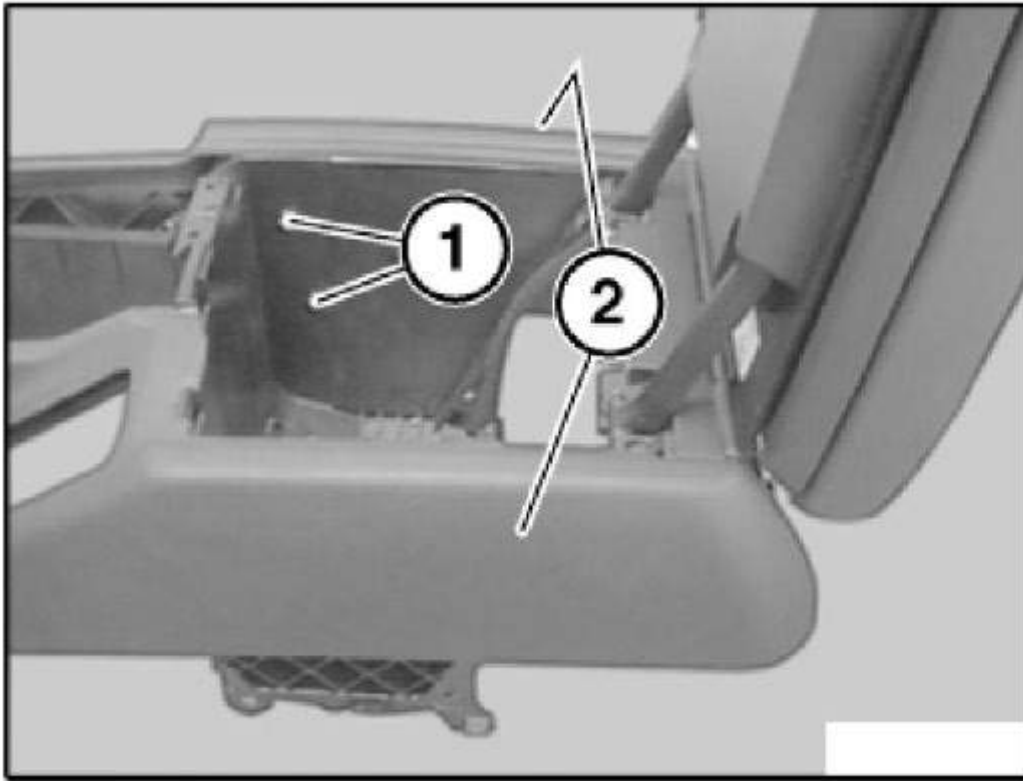
In addition, release screw (1) on driver's side.



**G03255714**

**Fig. 144: Identifying Screw On Driver Side**  
**Courtesy of BMW OF NORTH AMERICA, INC.**

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

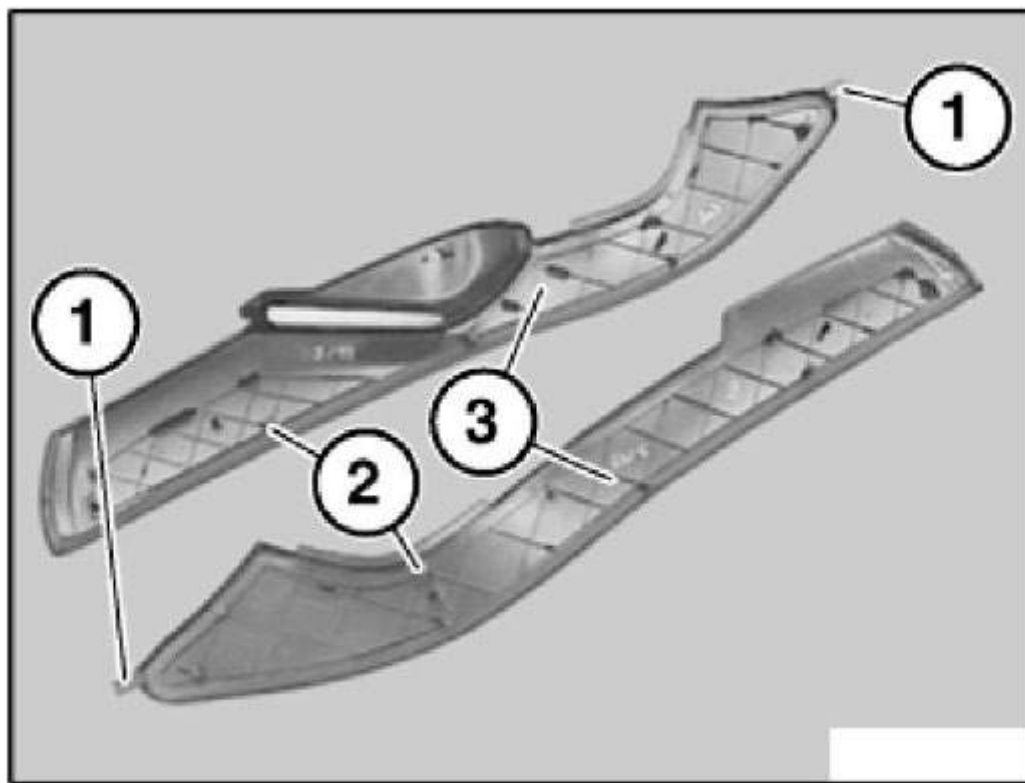


G03255715

**Fig. 145: Releasing Left/Right Screws On Side Sections**  
Courtesy of BMW OF NORTH AMERICA, INC.

**Installation:**

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

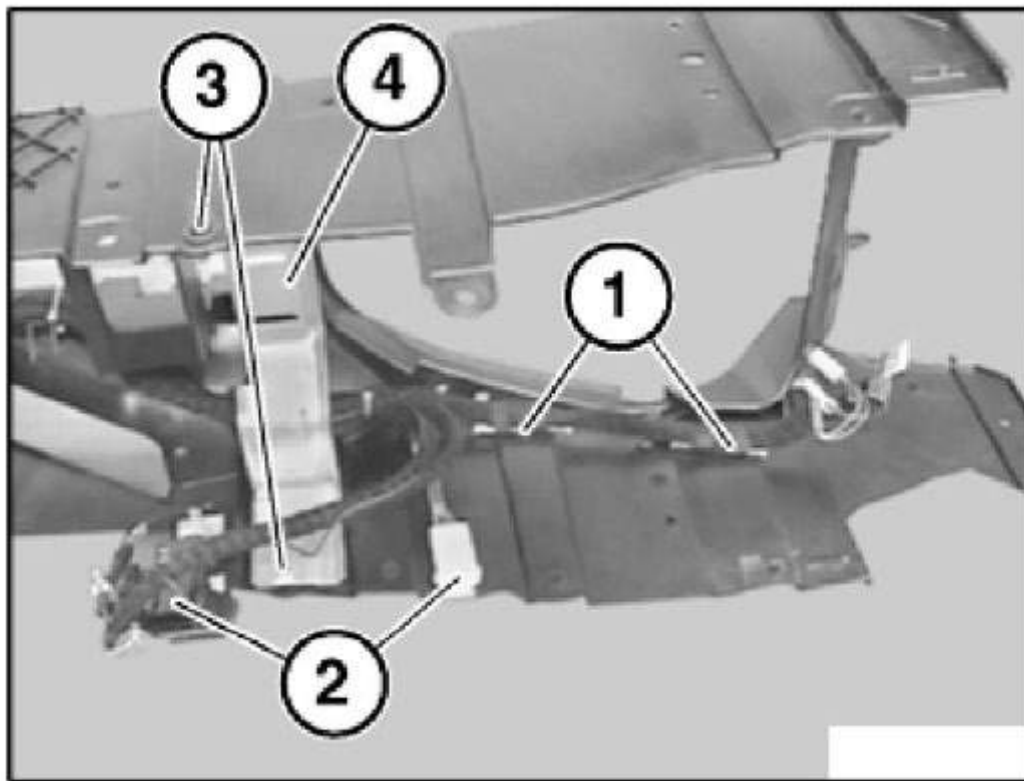


G03255716

**Fig. 146: Locating Guides And Screw Points Of Side Sections**  
Courtesy of BMW OF NORTH AMERICA, INC.

Release cable holder (1).

Turn and detach plug connections (2).



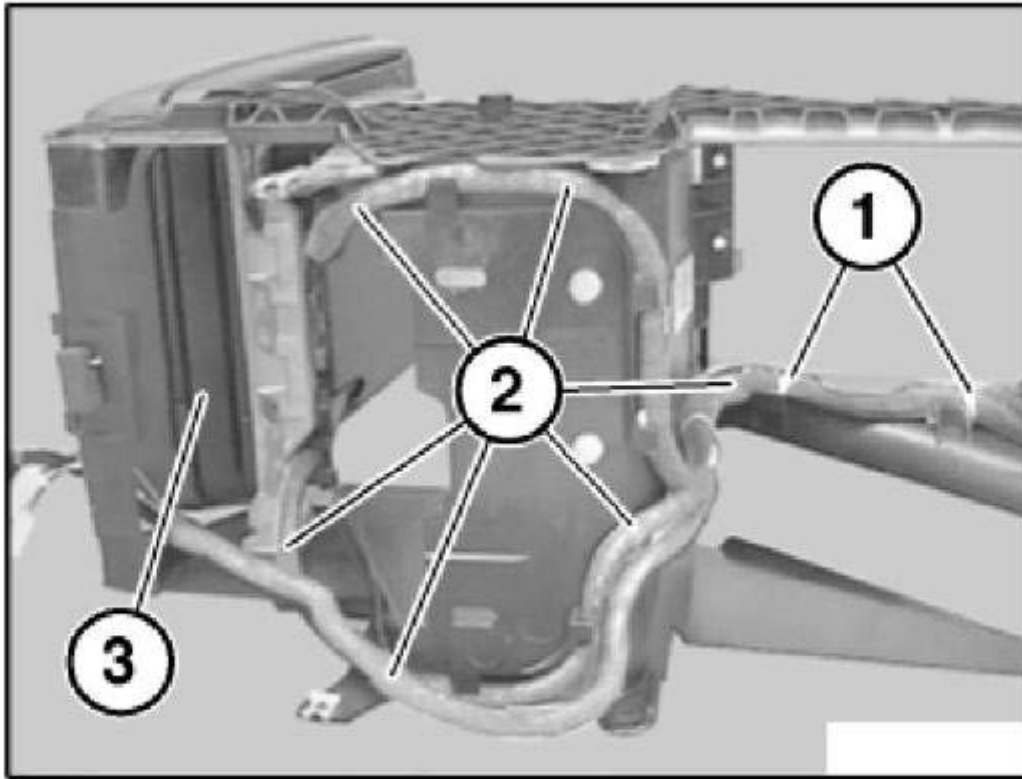
G03255717

**Fig. 147: Identifying Plug Connections**  
Courtesy of BMW OF NORTH AMERICA, INC.

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

Unfasten cable clip (1).

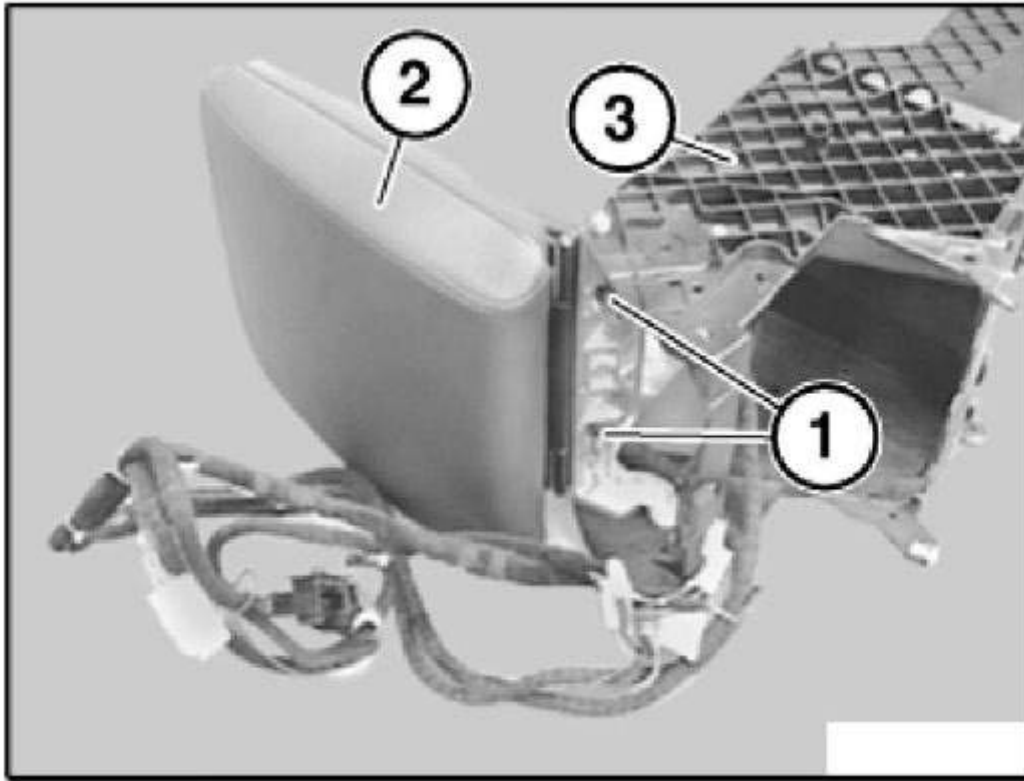
Feed cable (2) out of center console (3).



G03255718

**Fig. 148: Removing Cable Out Of Center Console**  
Courtesy of BMW OF NORTH AMERICA, INC.

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

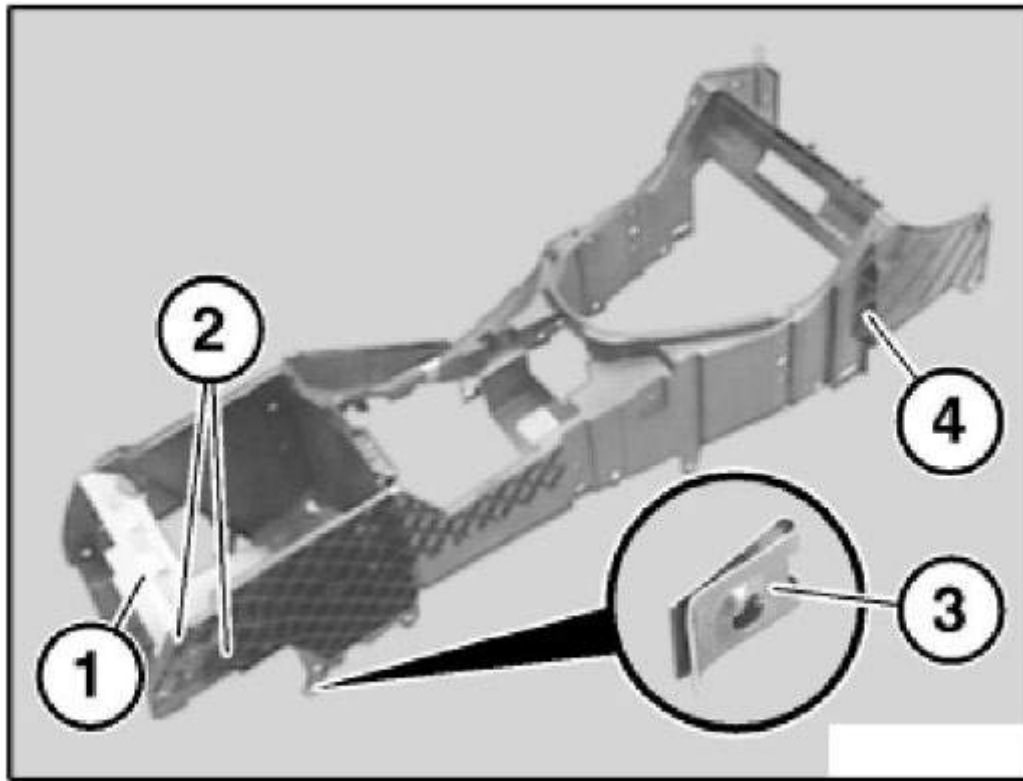


G03255719

**Fig. 149: Locating Screws On Center Console Armrest**  
Courtesy of BMW OF NORTH AMERICA, INC.

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

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



G03255720

**Fig. 150: Identifying Metal Nuts In Center Console**

Courtesy of BMW OF NORTH AMERICA, INC.

#### **51 16 202 REMOVING AND INSTALLING/REPLACING FRONT CUP HOLDER**

##### **Operation Is Described In:**

Replacing wooden finishers for center console. Refer to **51 16 220 REPLACING TRIMS FOR CENTER CONSOLE** .

#### **51 16 204 REMOVING AND INSTALLING/REPLACING REAR CUP HOLDER**

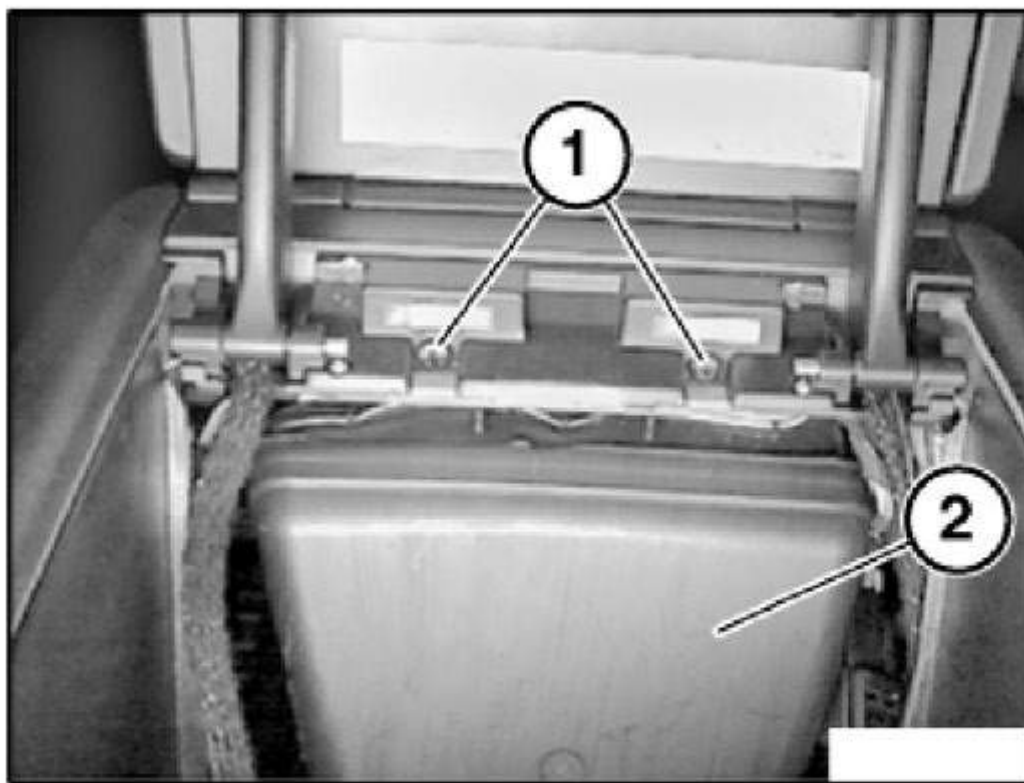
##### **Release Center Console At Rear:**

Remove fresh air grill in footwell. Refer to **64 22 190 REMOVING AND INSTALLING/REPLACING FRESH-AIR GRILL IN REAR OF CAR** .

Remove air duct (2).

**Installation:**

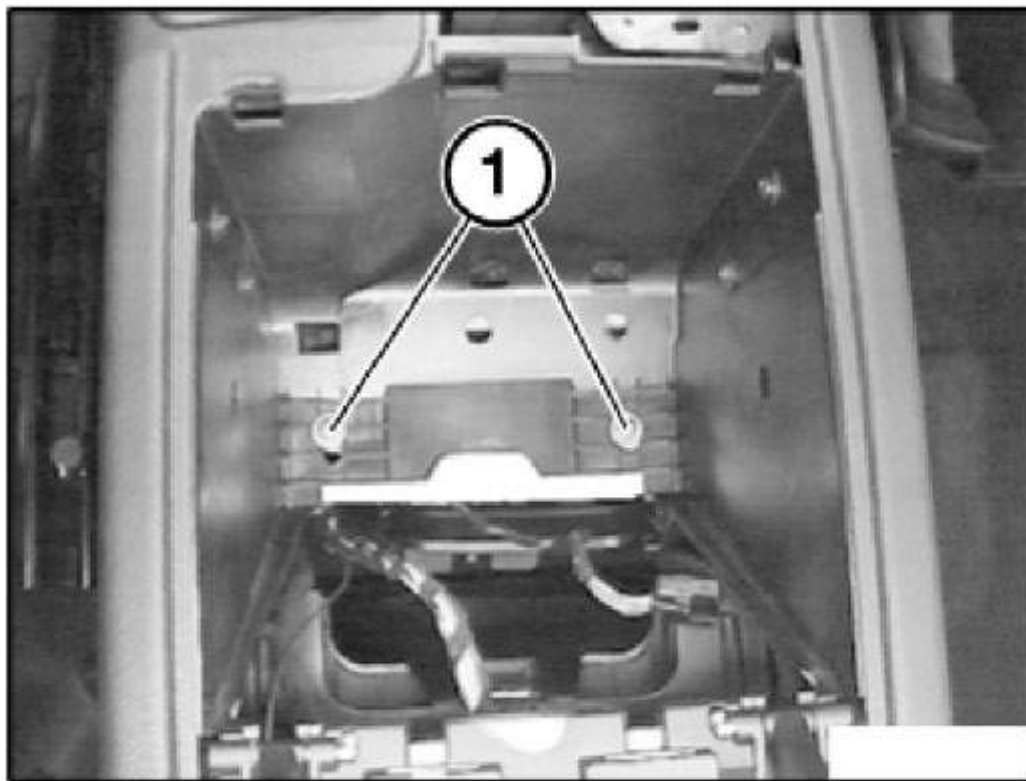
Prior to tightening down all screws, fit air duct (2) correctly.



G03255721

**Fig. 151: Identifying Air Duct**  
Courtesy of BMW OF NORTH AMERICA, INC.

Release screws (1).



G03255722

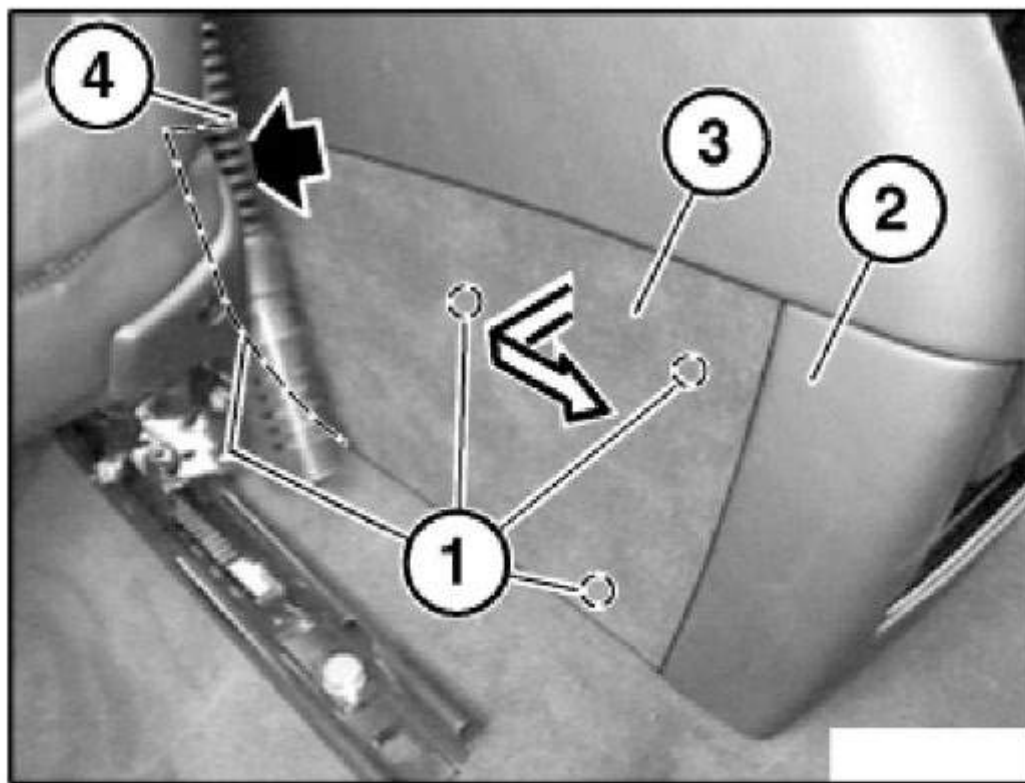
**Fig. 152: Releasing Screws**

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.

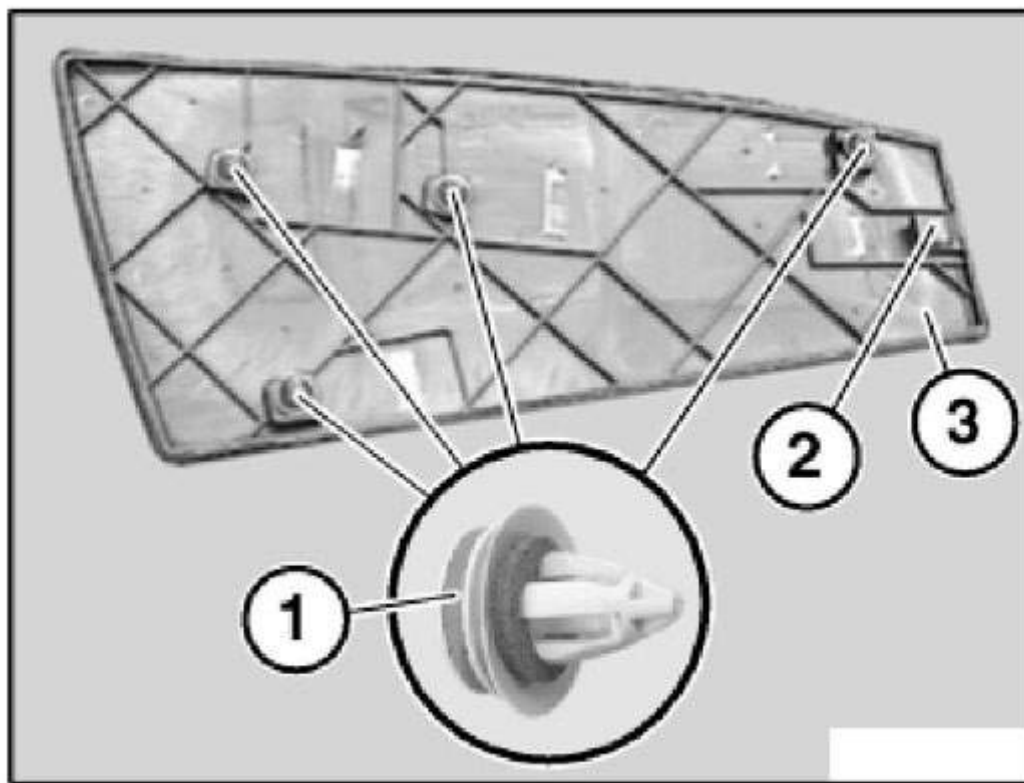


G03255723

**Fig. 153: Locating Clips On Left/Right From Carpet Outwards From Center Console**  
Courtesy of BMW OF NORTH AMERICA, INC.

**Installation:**

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

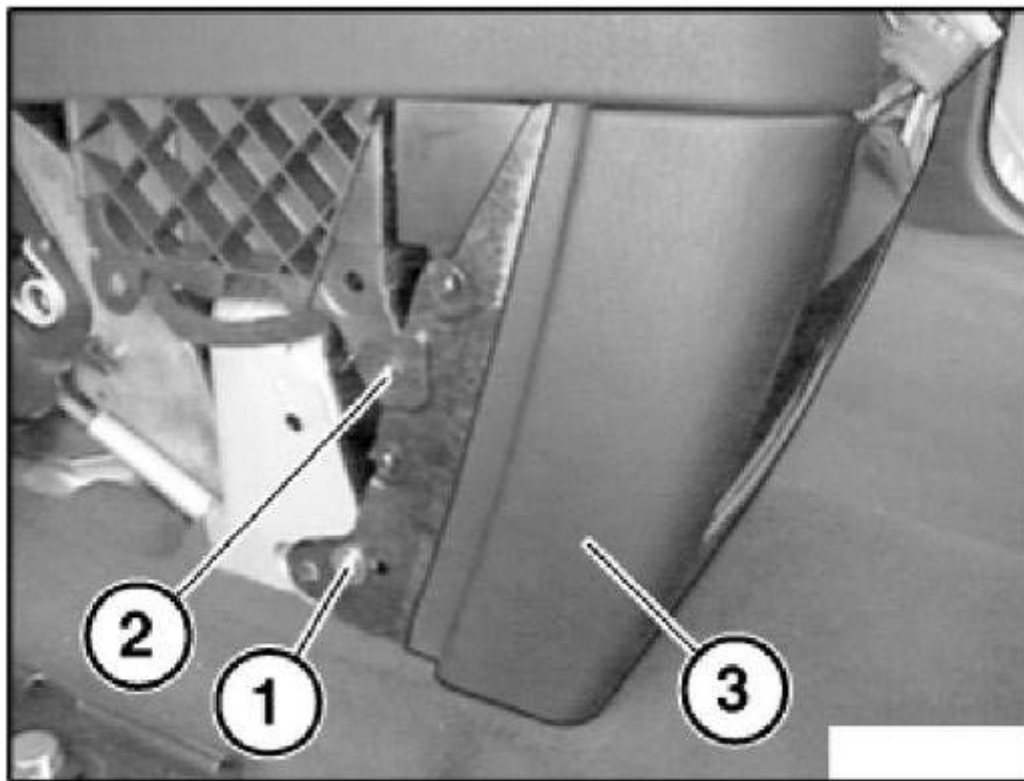


G03255724

**Fig. 154: View Of 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.



G03255725

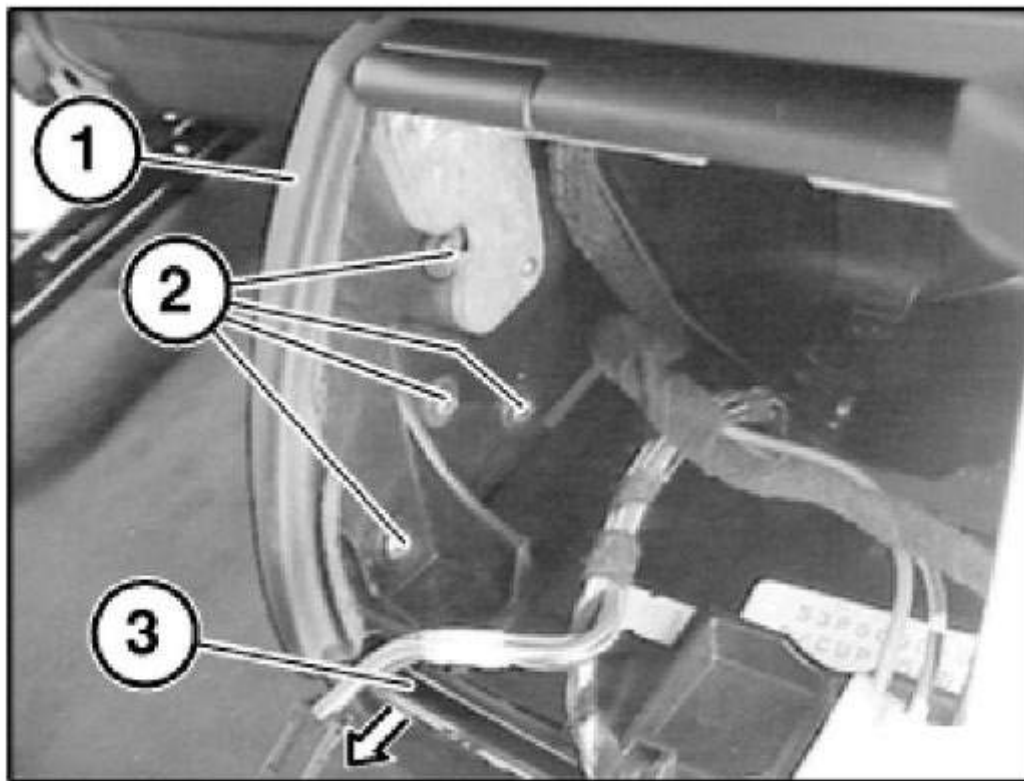
**Fig. 155: Removing Cup Holder Retaining Screws**

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).

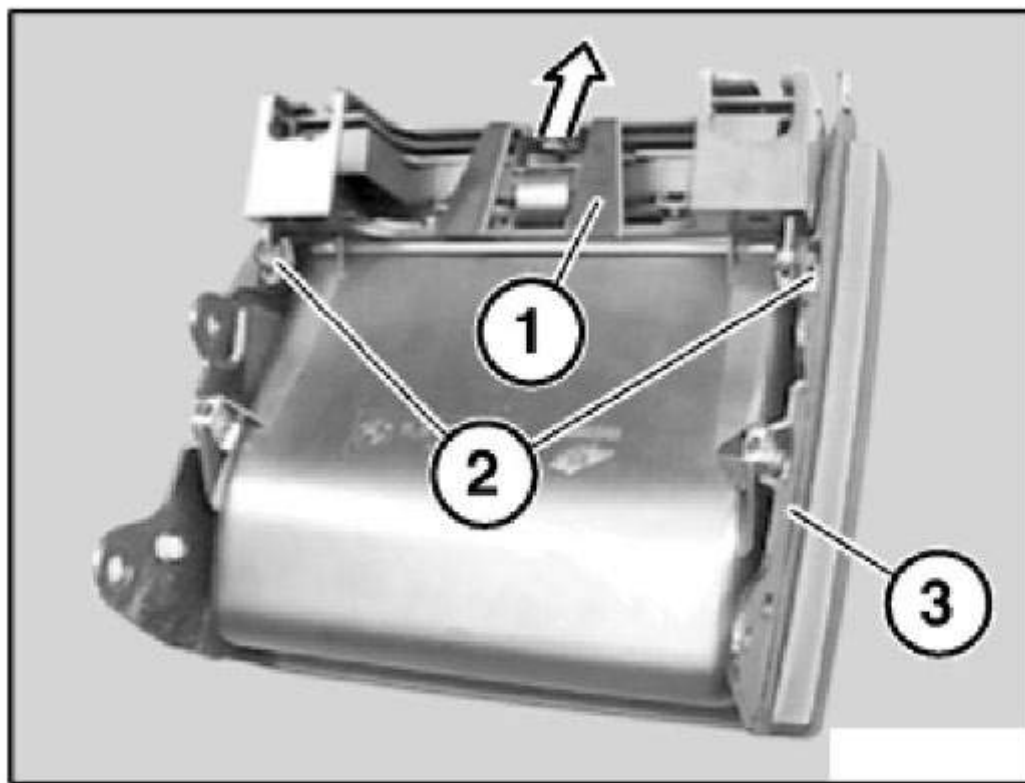


G03255726

**Fig. 156: Releasing Left/Right Screws**  
Courtesy of BMW OF NORTH AMERICA, INC.

Release screws (2).

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



G03255727

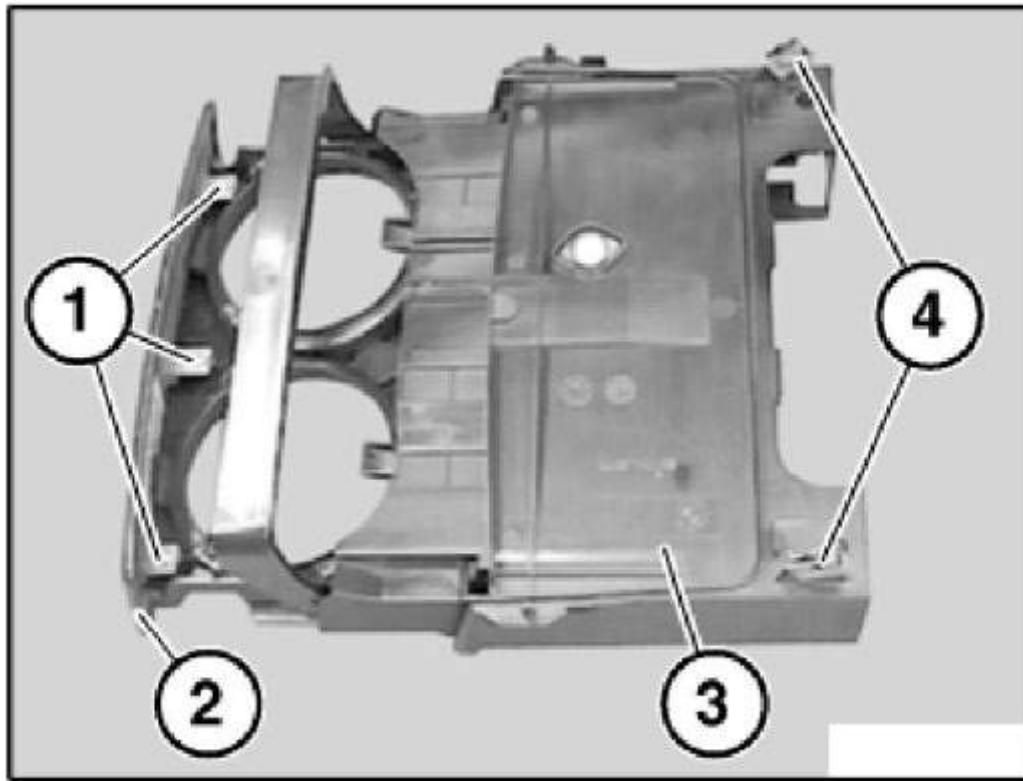
**Fig. 157: View Of Cup Holder And Carrier**  
**Courtesy of BMW OF NORTH AMERICA, INC.**

Replacement only:

Open cup holder.

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

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

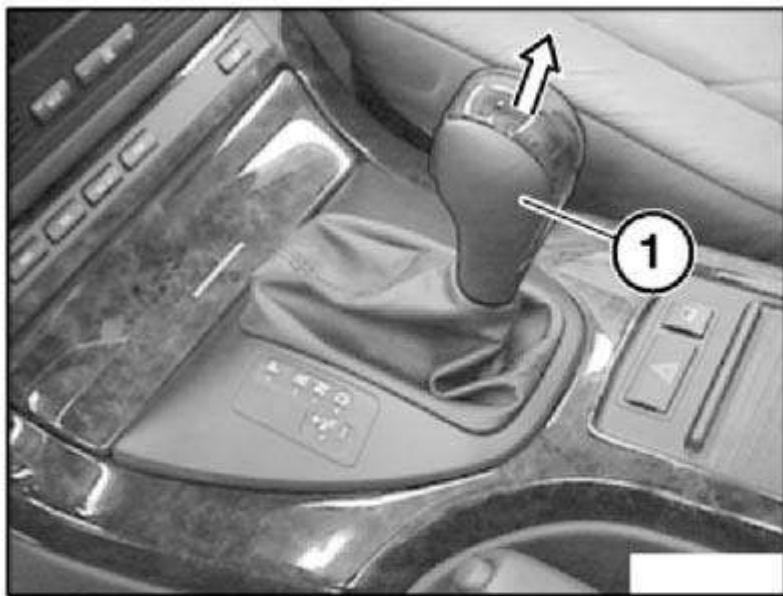


G03255728

**Fig. 158: Locating Metal Nuts On 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.



G03255729

**Fig. 159: Identifying Preselector Knob**

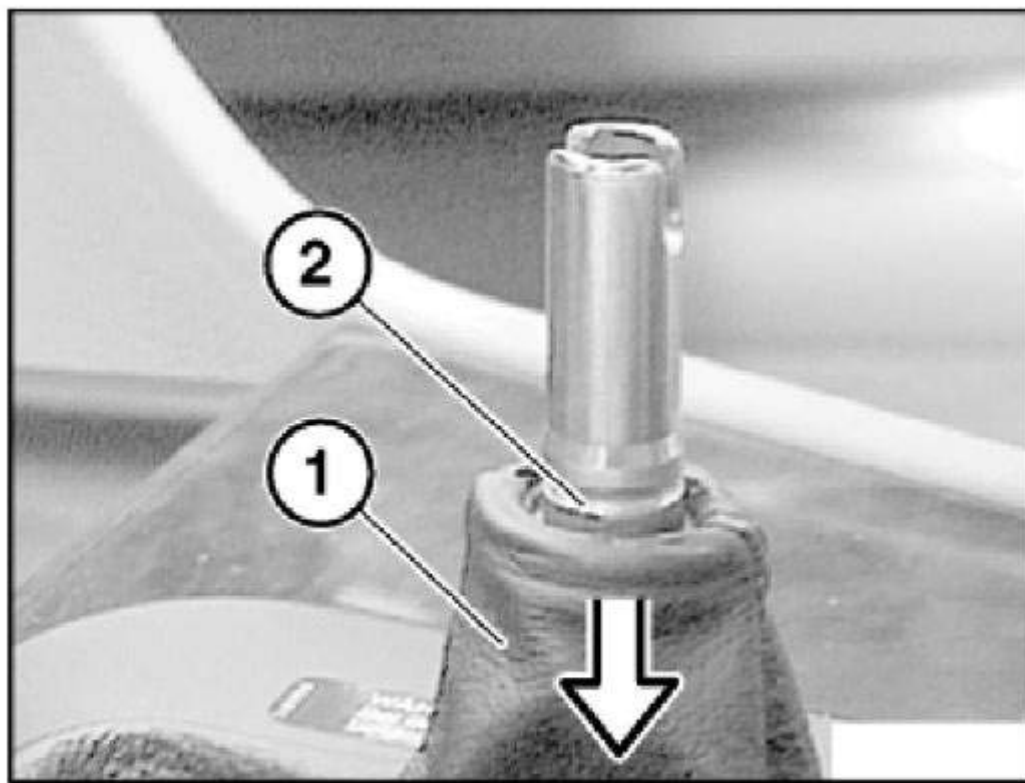
Courtesy of BMW OF NORTH AMERICA, INC.

**Installation:**

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

**Installation:**

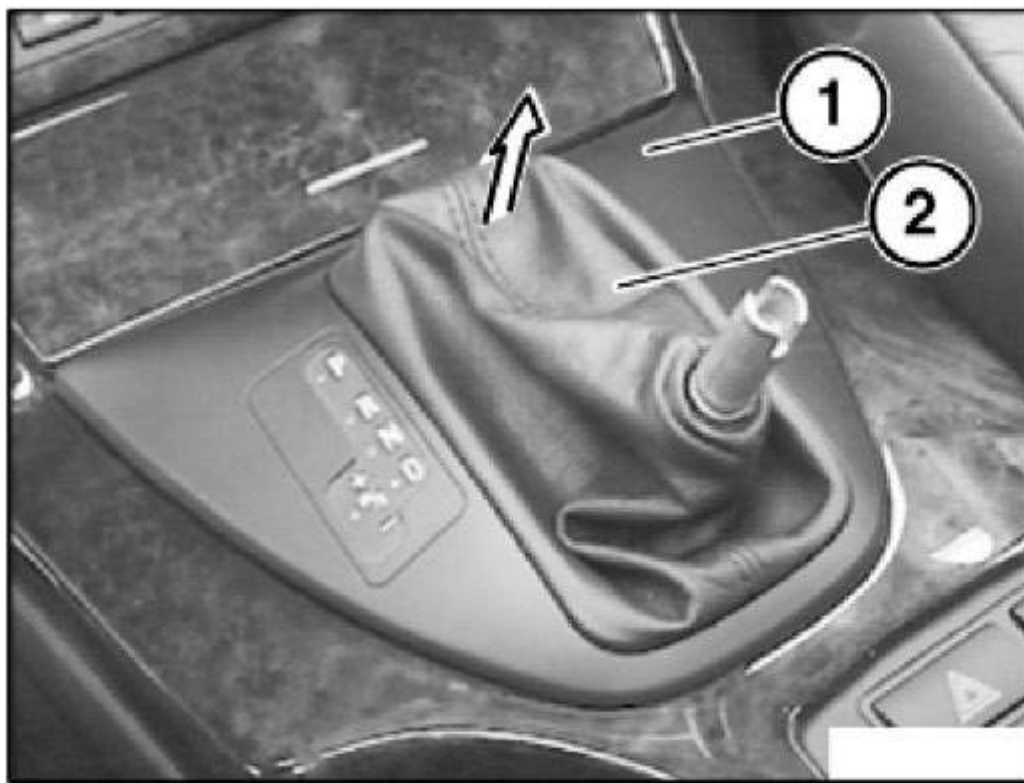
Push rubber gaiter (1) down until groove (2) is fully exposed.



G03255730

**Fig. 160: Aligning Rubber Gaiter Until Groove Is Exposed**  
Courtesy of BMW OF NORTH AMERICA, INC.

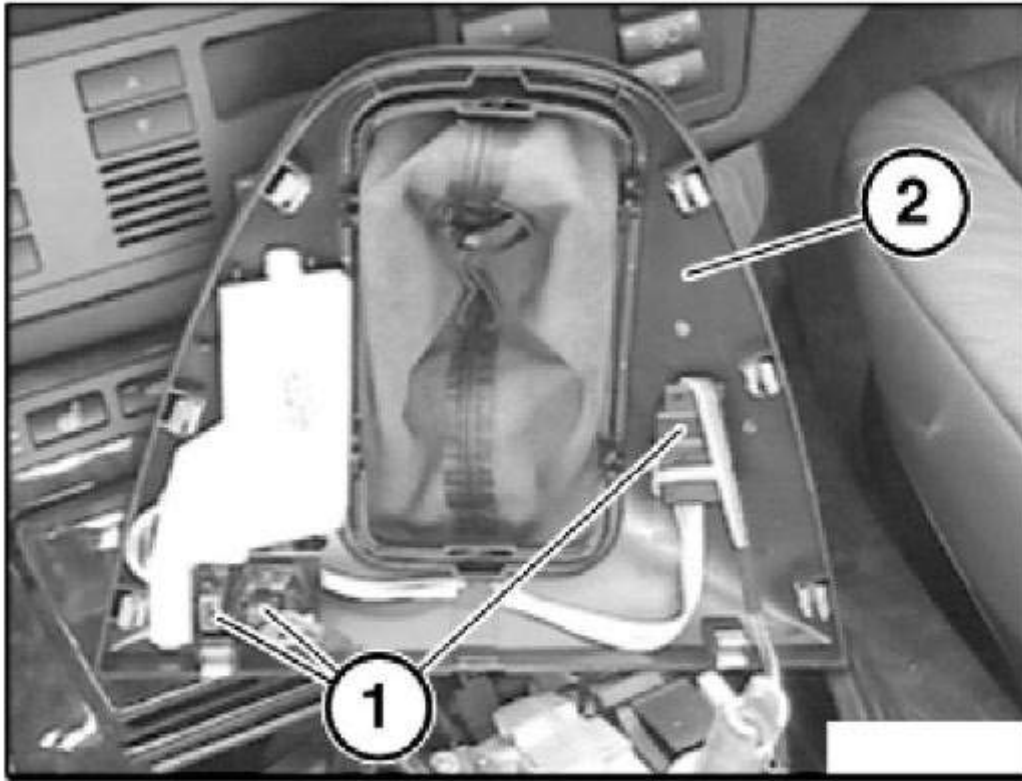
Remove trim (1) with rubber gaiter (2) from center console.



G03255731

**Fig. 161: Removing Trim With Rubber Gaiter From Center Console**  
Courtesy of BMW OF NORTH AMERICA, INC.

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



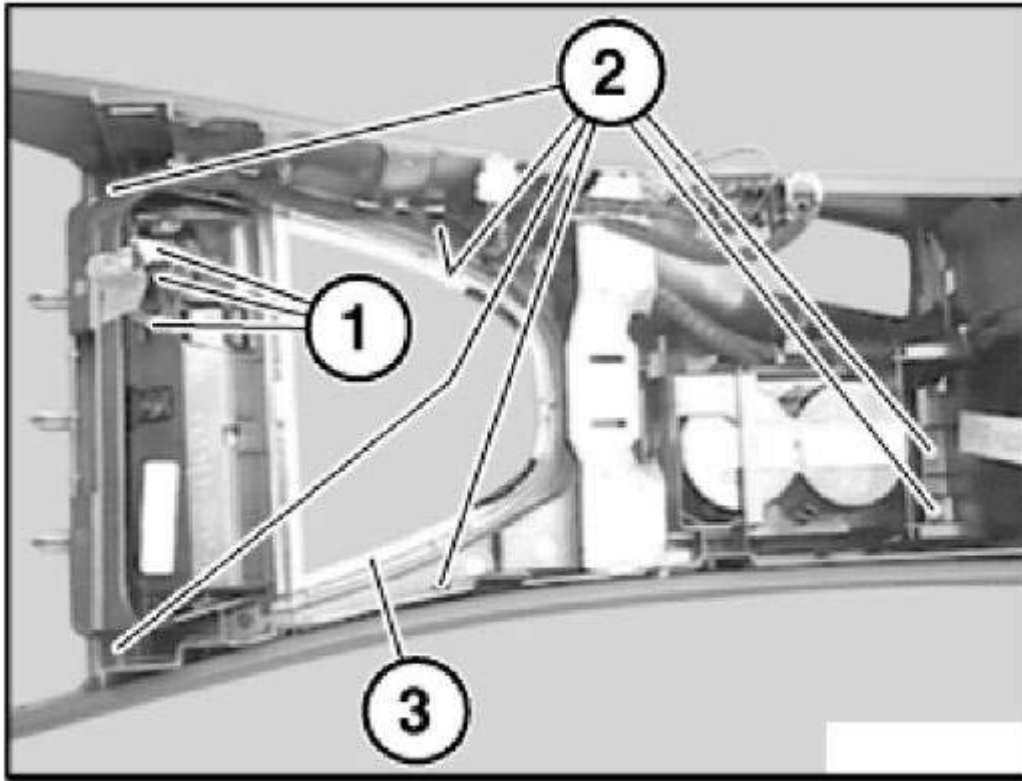
G03255732

**Fig. 162: Disconnecting Plug Connections And Removing Trim**  
Courtesy of BMW OF NORTH AMERICA, INC.

#### **51 16 220 REPLACING TRIMS FOR CENTER CONSOLE**

Remove oddments tray. Refer to **51 16 200 REMOVING AND INSTALLING CENTER CONSOLE** .

Disconnect plug connection (1).



G03255733

**Fig. 163: Locating Plug Connection**

Courtesy of BMW OF NORTH AMERICA, INC.

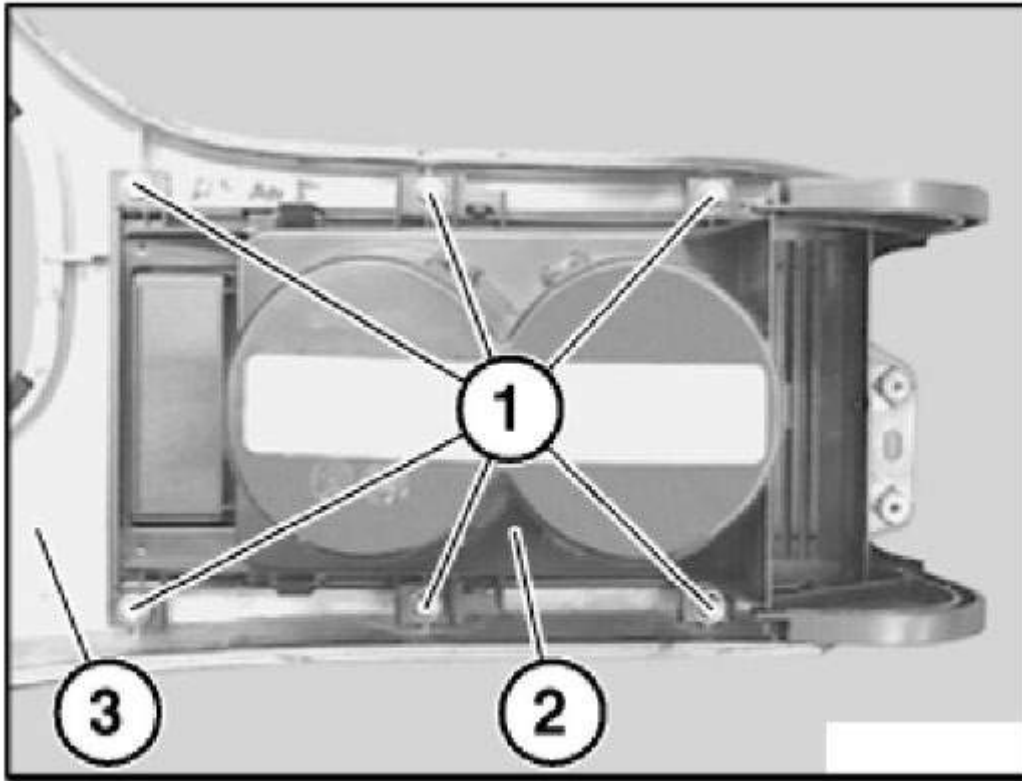
Release screws (2).

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

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

**Removing Front Cup Holder:**

Release screws (1).



G03255734

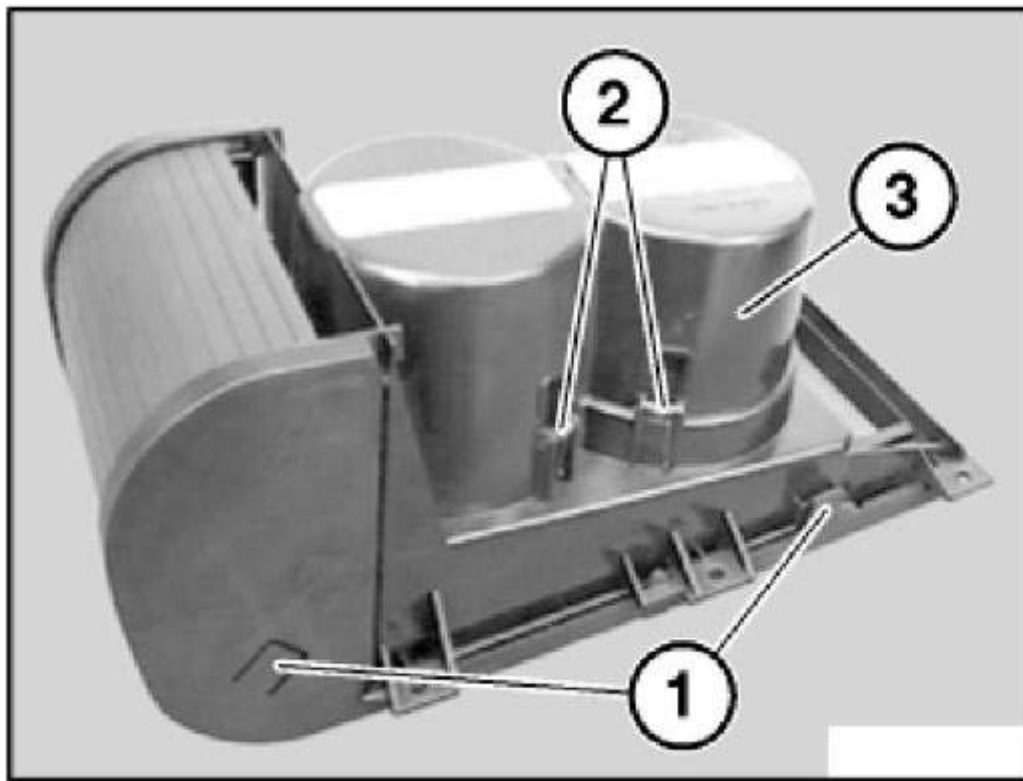
**Fig. 164: Identifying Cup Holder Retaining Screws**  
Courtesy of BMW OF NORTH AMERICA, INC.

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

**Installation:**

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

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

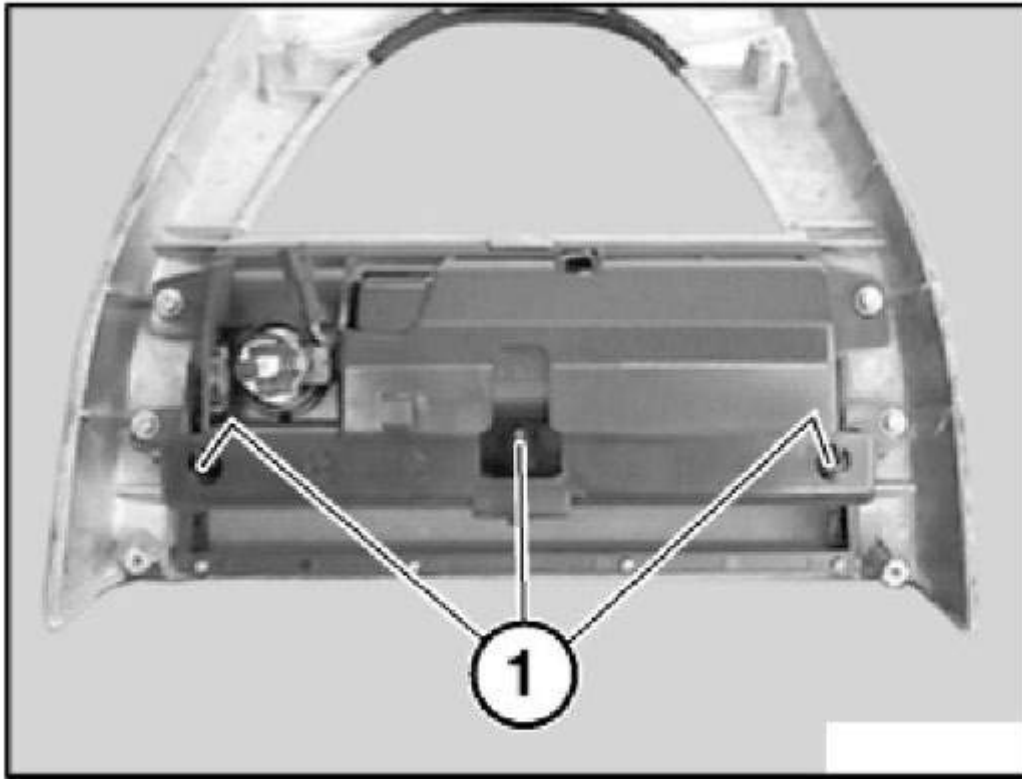


G03255735

**Fig. 165: Locating 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.

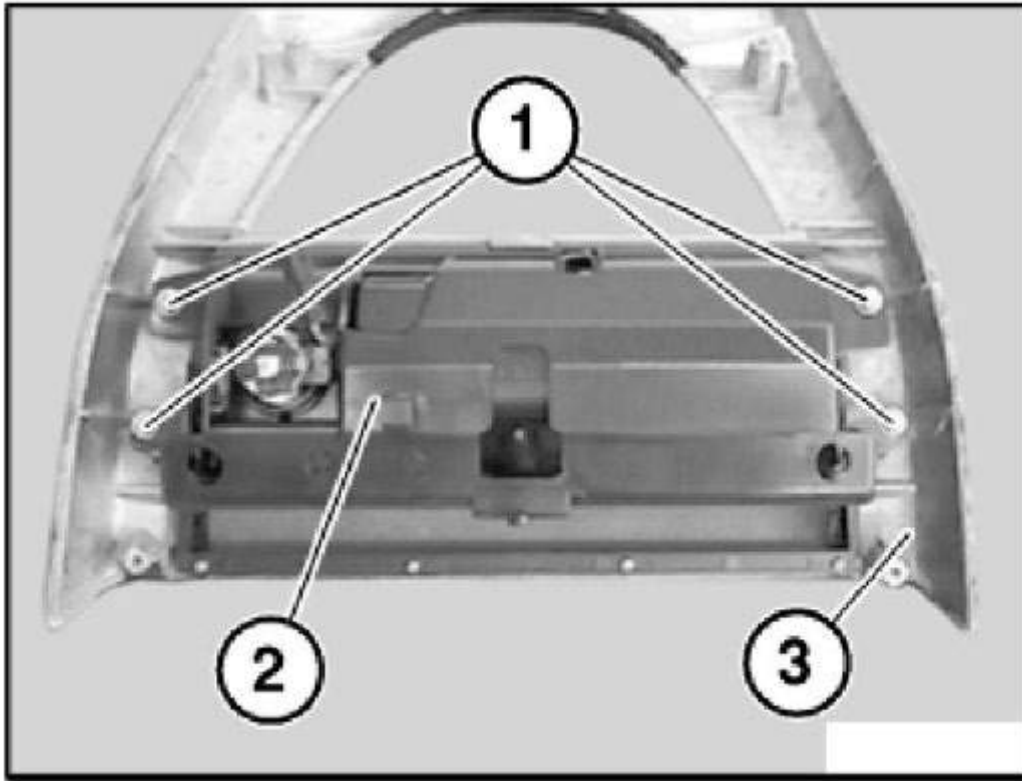


G03255736

**Fig. 166: View Of Decorative Trim On Front 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.

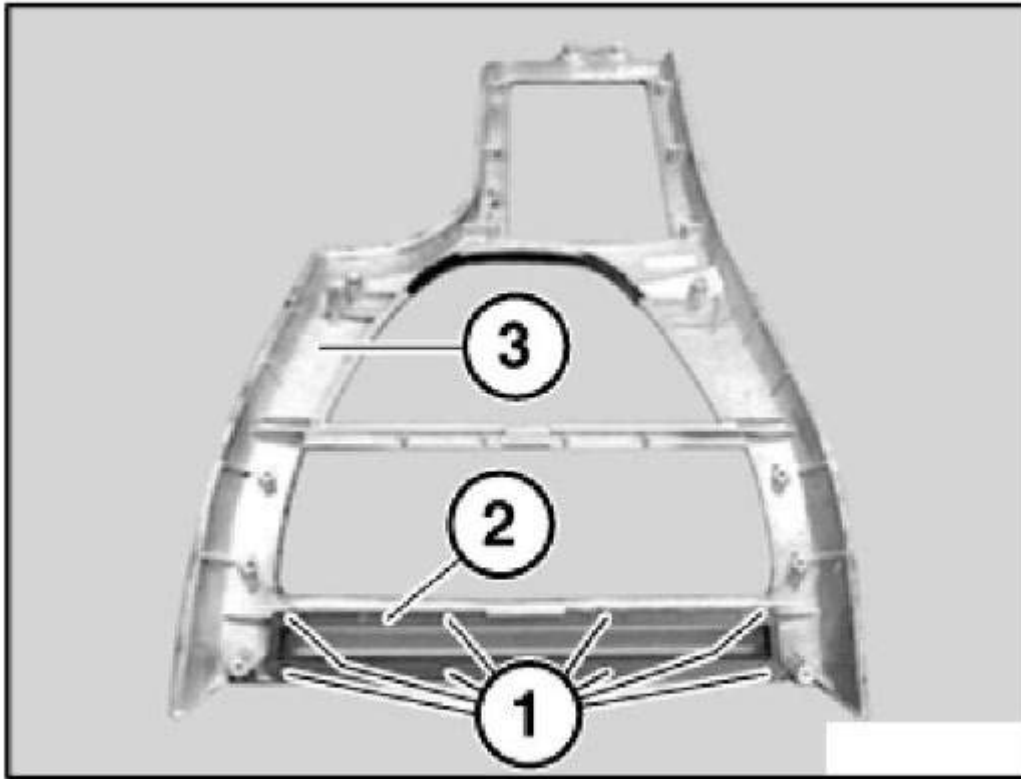


G03255737

**Fig. 167: Removing Front Ashtray Retaining Screws**  
Courtesy of BMW OF NORTH AMERICA, INC.

**Replacement Of Base Of Center Console Only:**

Release screws (1).



G03255738

**Fig. 168: Removing Screws From Center Console**  
Courtesy of BMW OF NORTH AMERICA, INC.

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

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

**NOTE:** For Special Tool identification, see **SPECIAL TOOLS - X5 (3.0i)** .

**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. Refer to 51 00 ...  
**SAFETY INSTRUCTIONS FOR WORKING ON CARS WITH AIRBAG**

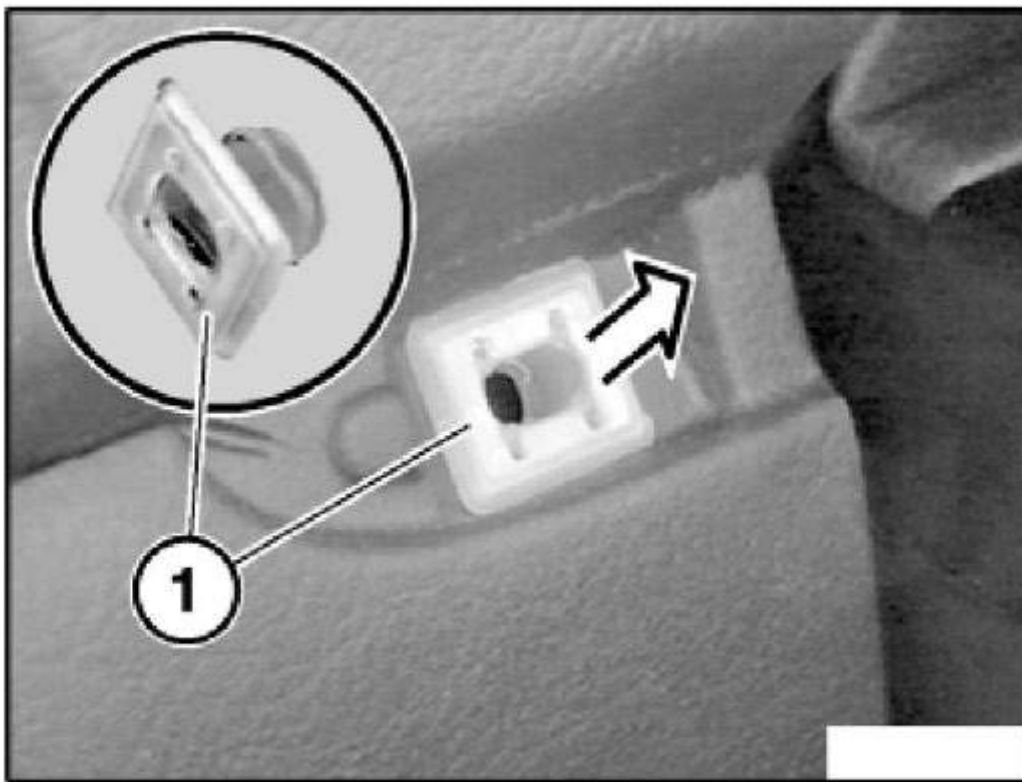
## **SYSTEMS .**

### **Replacing Clips (Hutfix):**

Lift out clip (1).

### **Installation:**

Clip (1) must not be damaged.



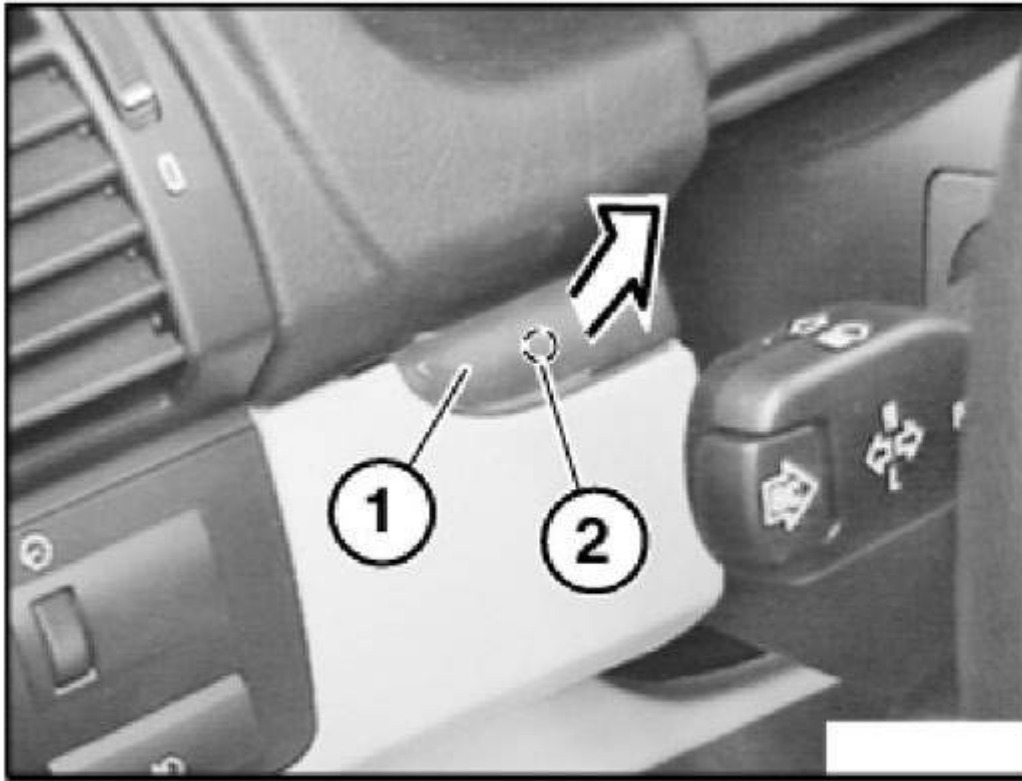
G03255739

**Fig. 169: Replacing Hutfix Clips**

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).

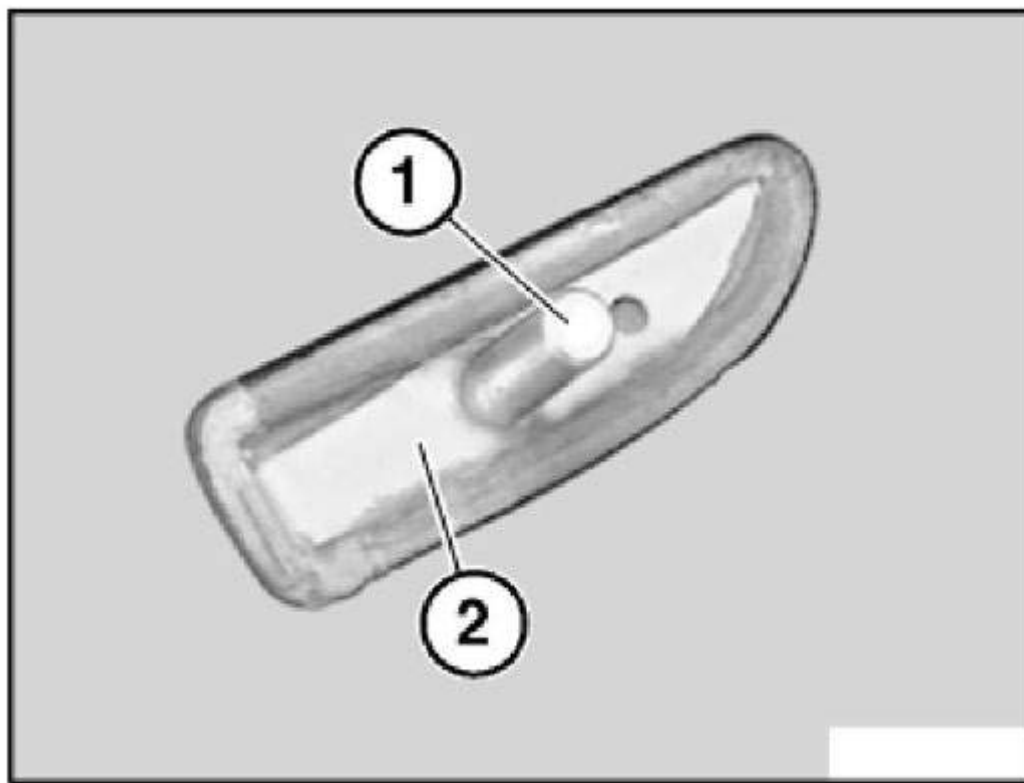


G03255740

**Fig. 170: Using Wedge To Unclip Decorative Strip**  
Courtesy of BMW OF NORTH AMERICA, INC.

**Installation:**

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

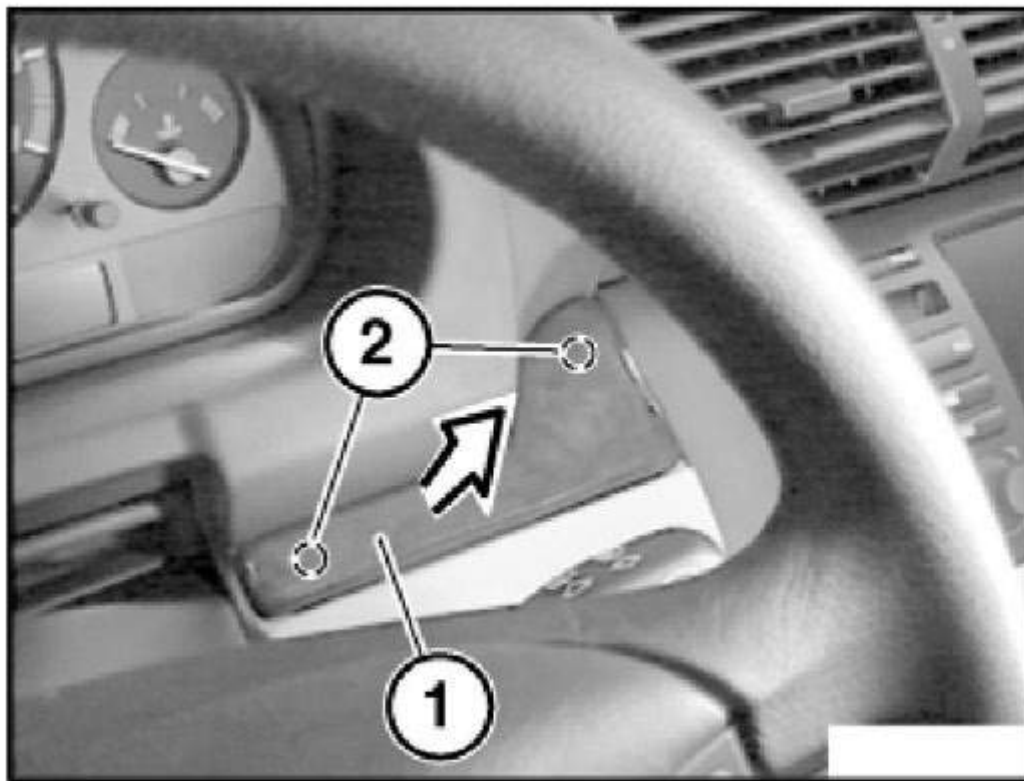


G03255741

**Fig. 171: Identifying Pin On 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).

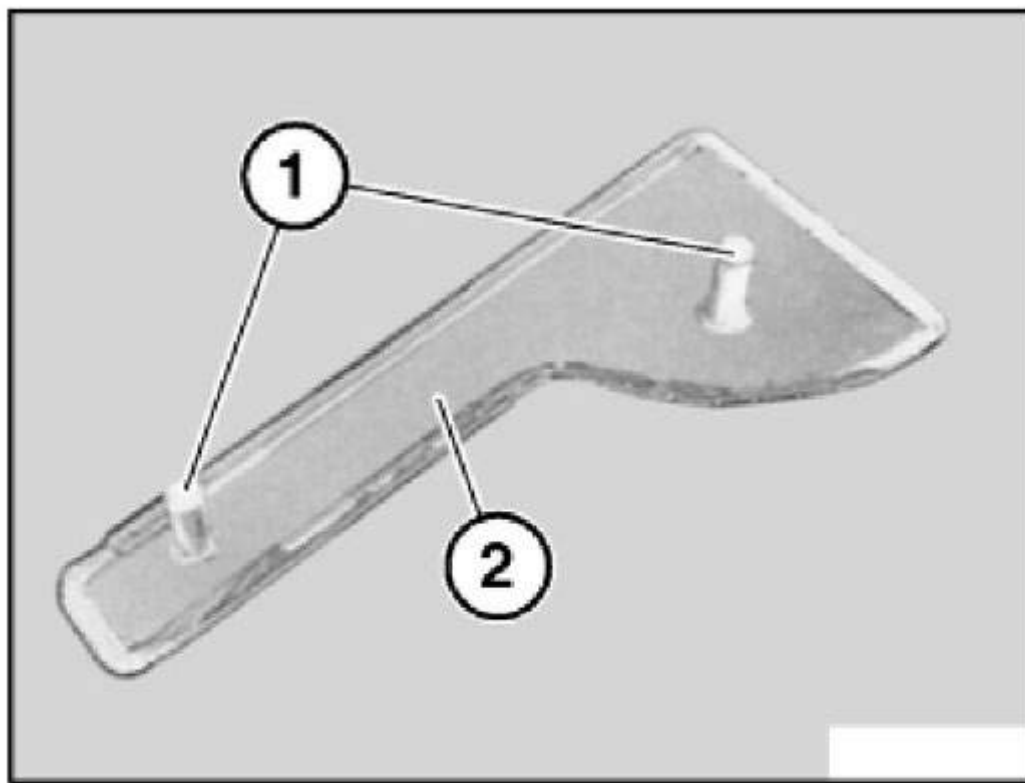


G03255742

**Fig. 172: Using Wedge To Unclip Decorative Strip**  
Courtesy of BMW OF NORTH AMERICA, INC.

**Installation:**

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

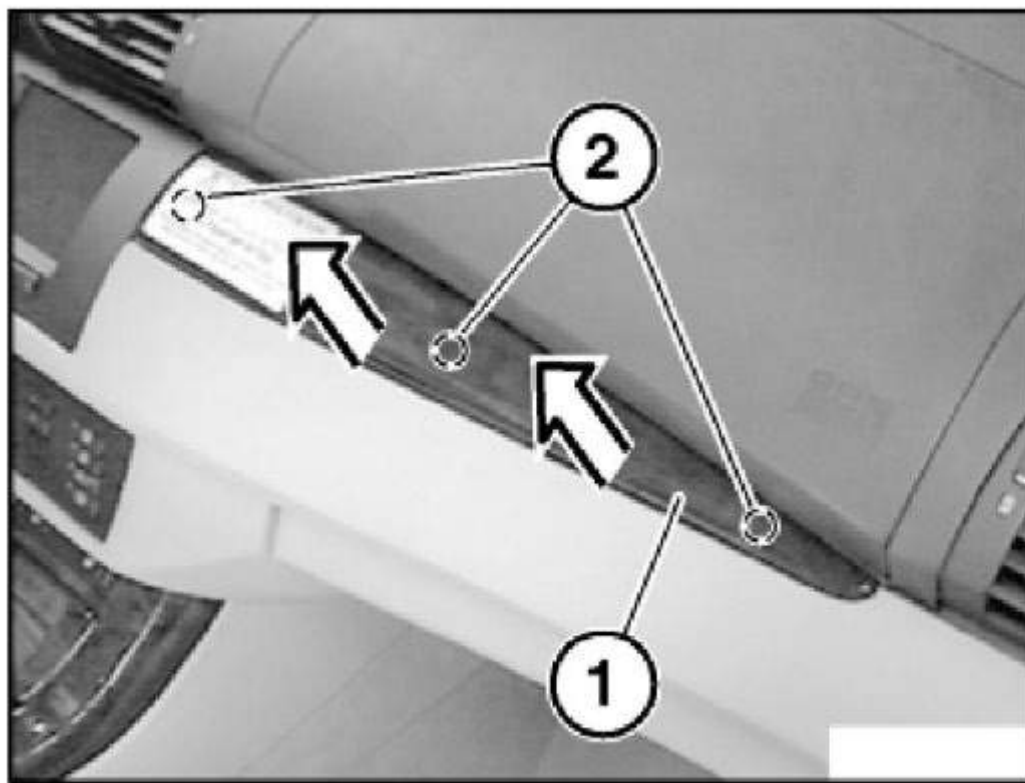


G03255743

**Fig. 173: Locating Pin On 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).

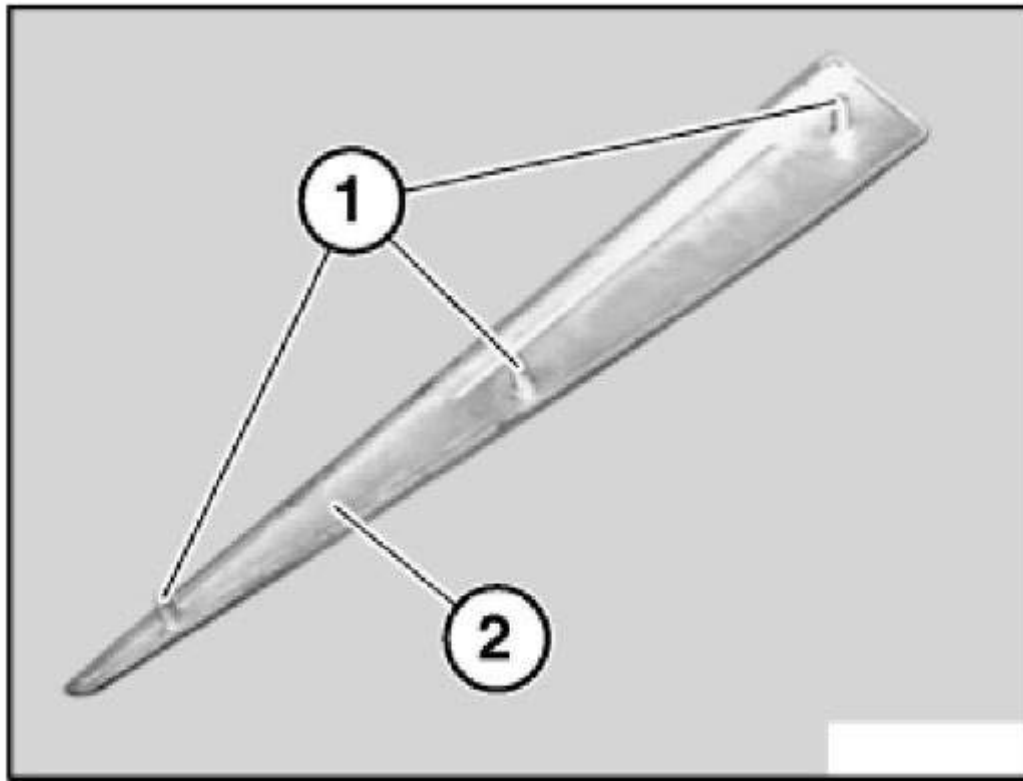


G03255744

**Fig. 174: Unclipping Decorative Strip Using Special Tools**  
Courtesy of BMW OF NORTH AMERICA, INC.

**Installation:**

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



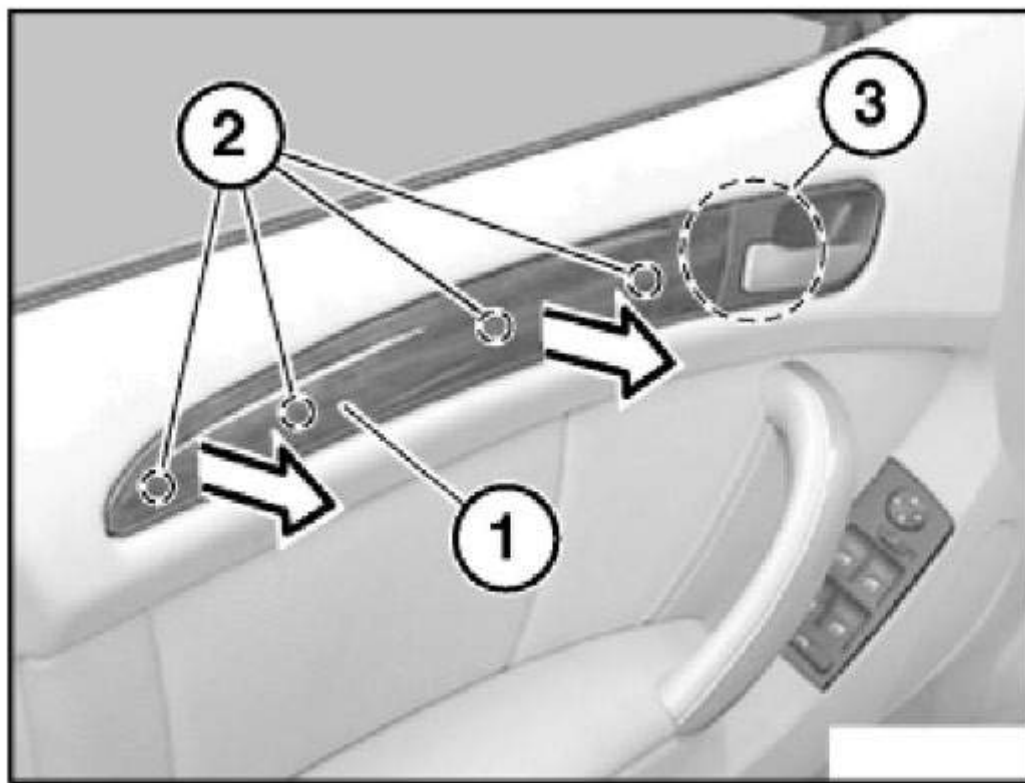
G03255745

**Fig. 175: View Of Decorative Strip Pin**  
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.

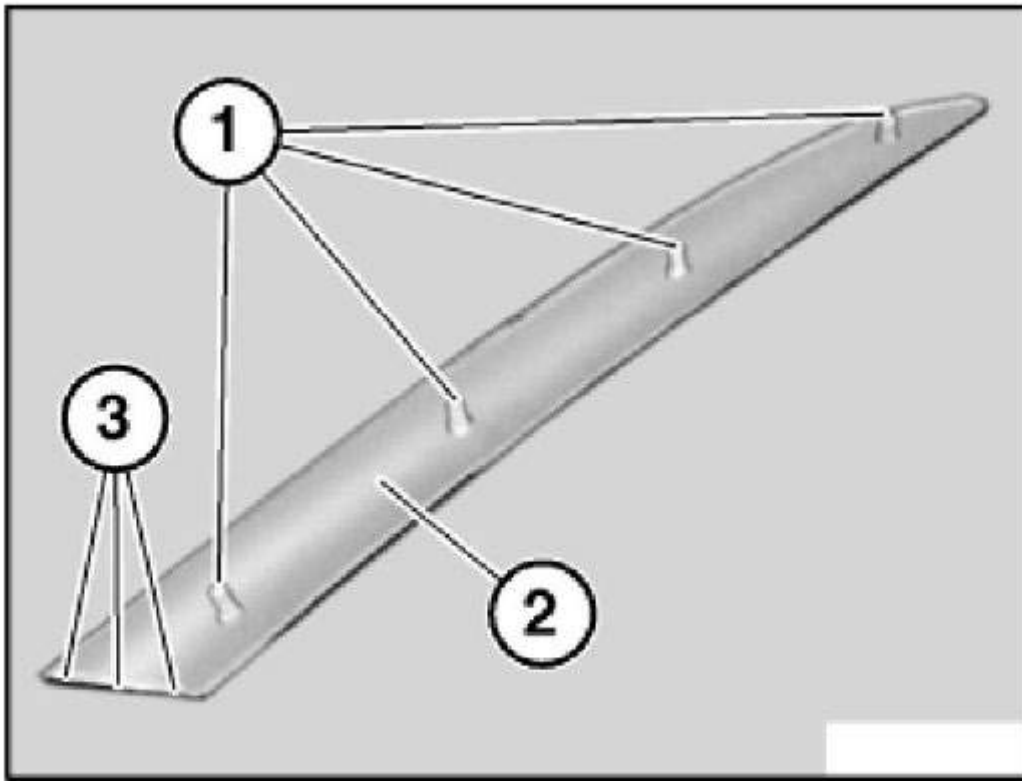


G03255746

**Fig. 176: Removing Decorative Strip Out Of Guides At Front**  
Courtesy of BMW OF NORTH AMERICA, INC.

**Installation:**

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

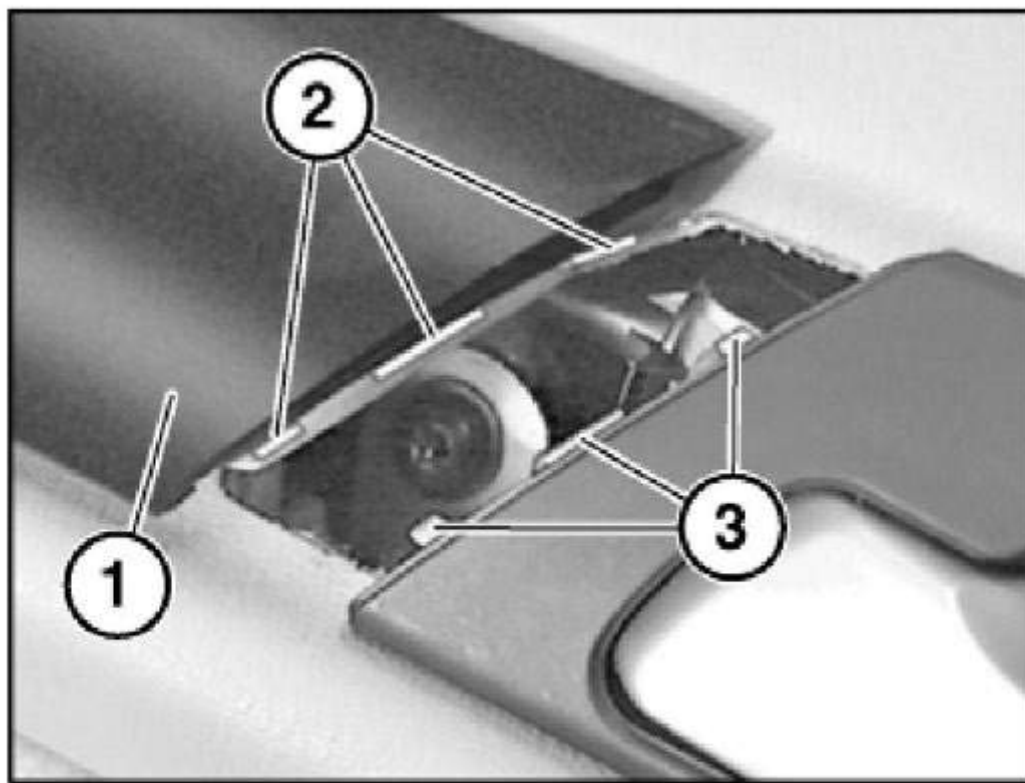


G03255747

**Fig. 177: Locating 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.

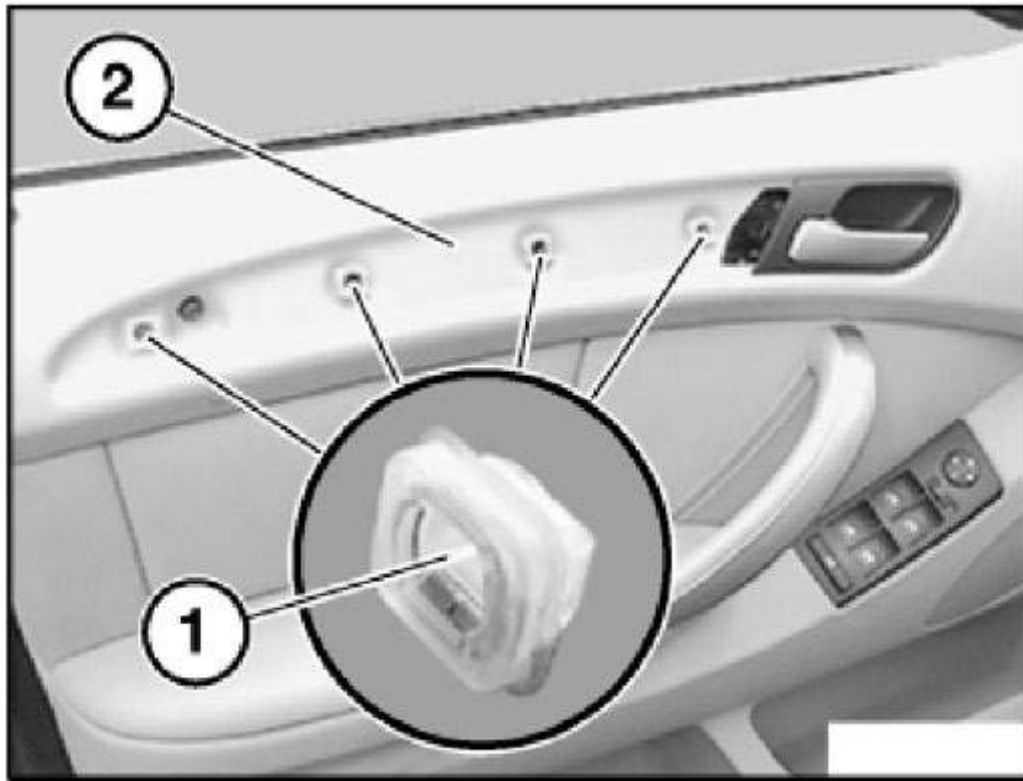


G03255748

**Fig. 178: Identifying Guides In Recessed Handle For Decorative Strip**  
Courtesy of BMW OF NORTH AMERICA, INC.

**Installation:**

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

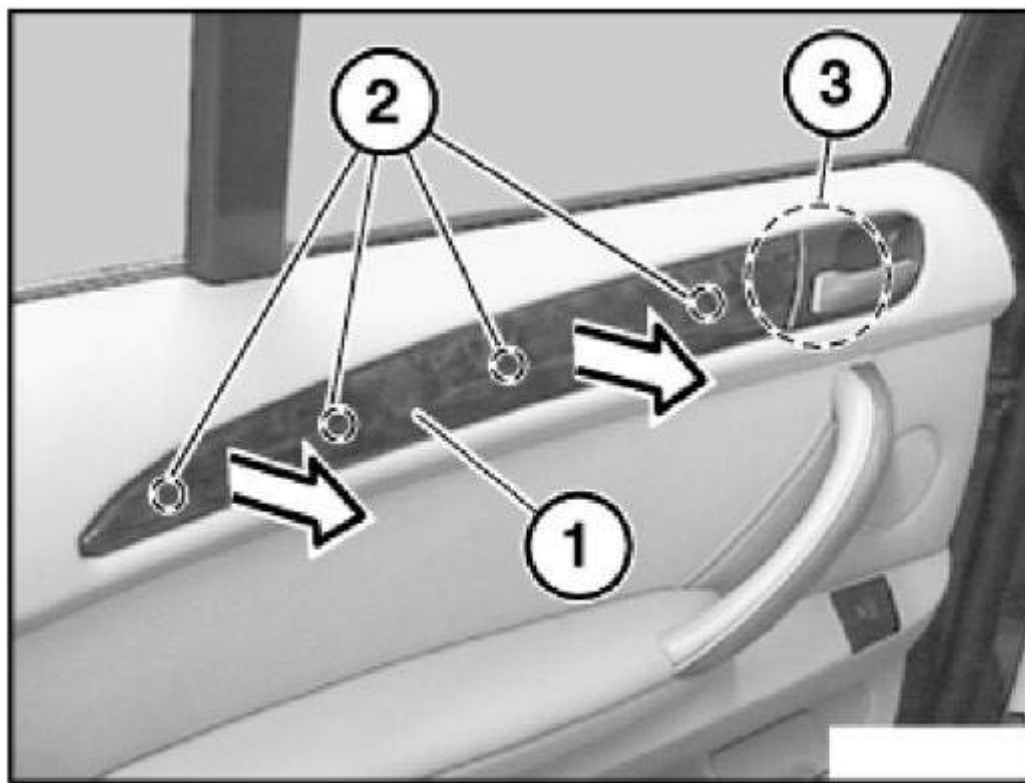


G03255749

**Fig. 179: Identifying 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).



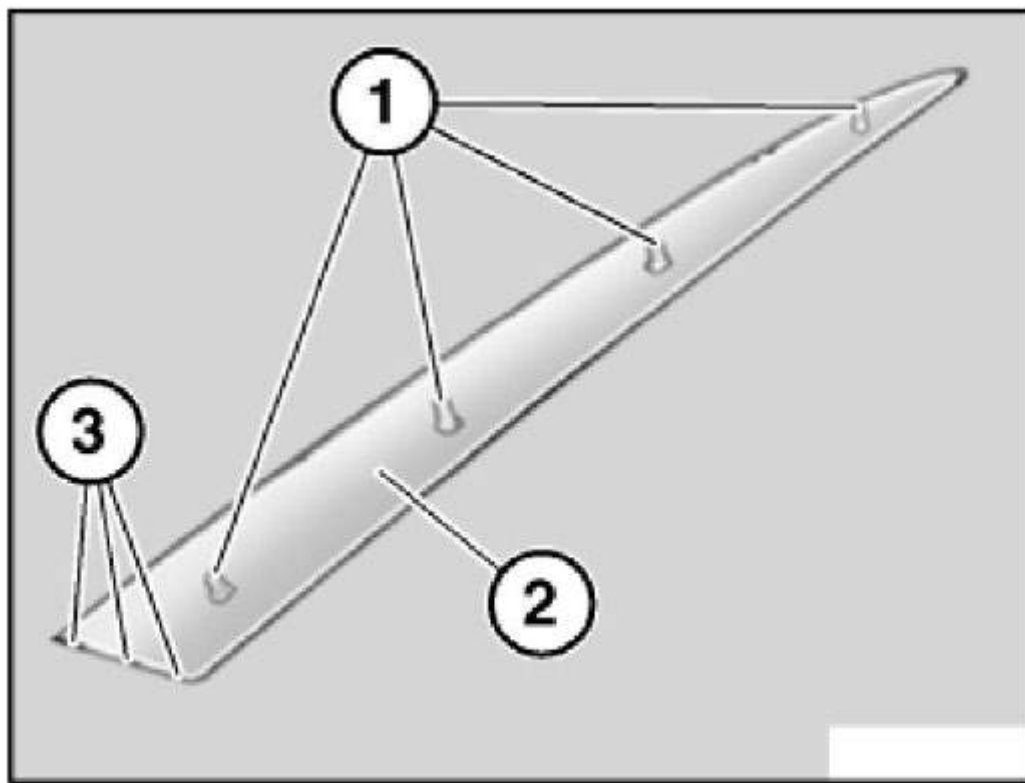
G03255750

**Fig. 180: Unclipping Decorative Strip Using Wedges**  
Courtesy of BMW OF NORTH AMERICA, INC.

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

**Installation:**

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

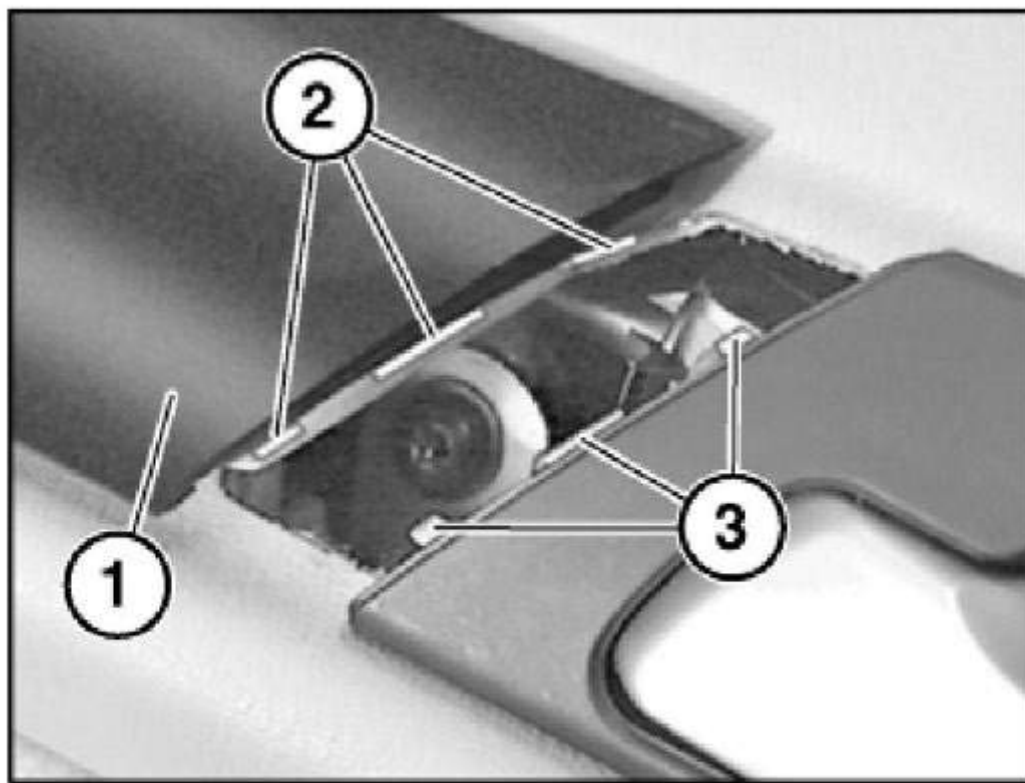


G03255751

**Fig. 181: Locating 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.

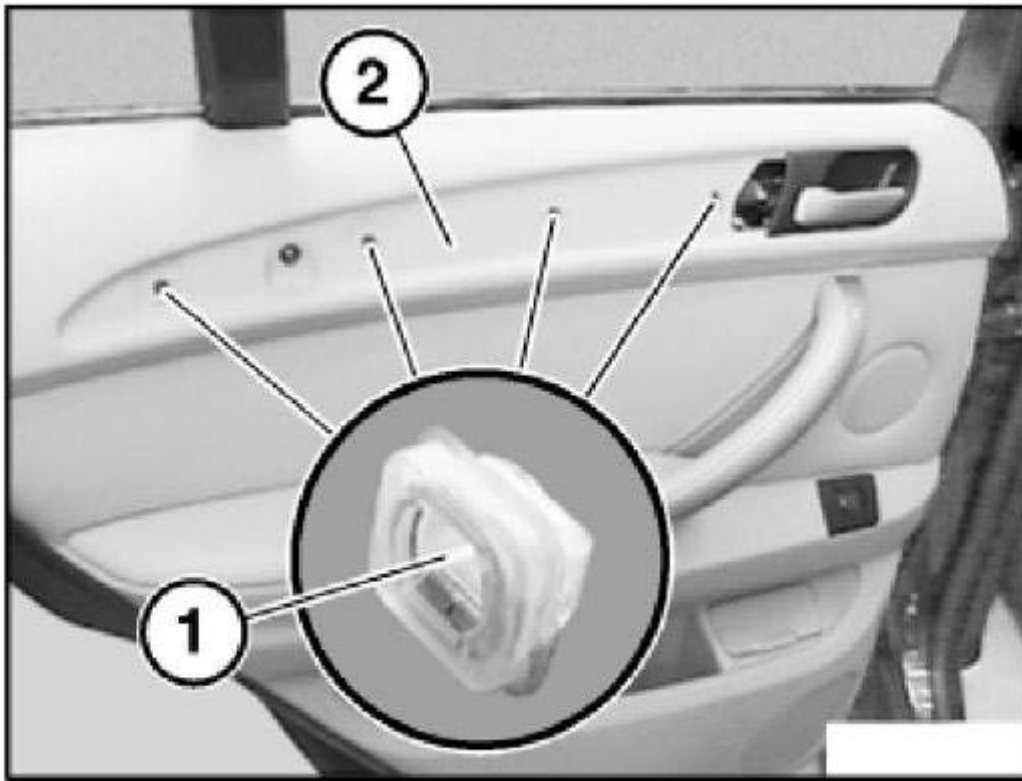


G03255752

**Fig. 182: Sliding Decorative Strip Into Grip Shell**  
Courtesy of BMW OF NORTH AMERICA, INC.

**Installation:**

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



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**Fig. 183: Identifying Grommets On Door Trim Panel**  
Courtesy of BMW OF NORTH AMERICA, INC.

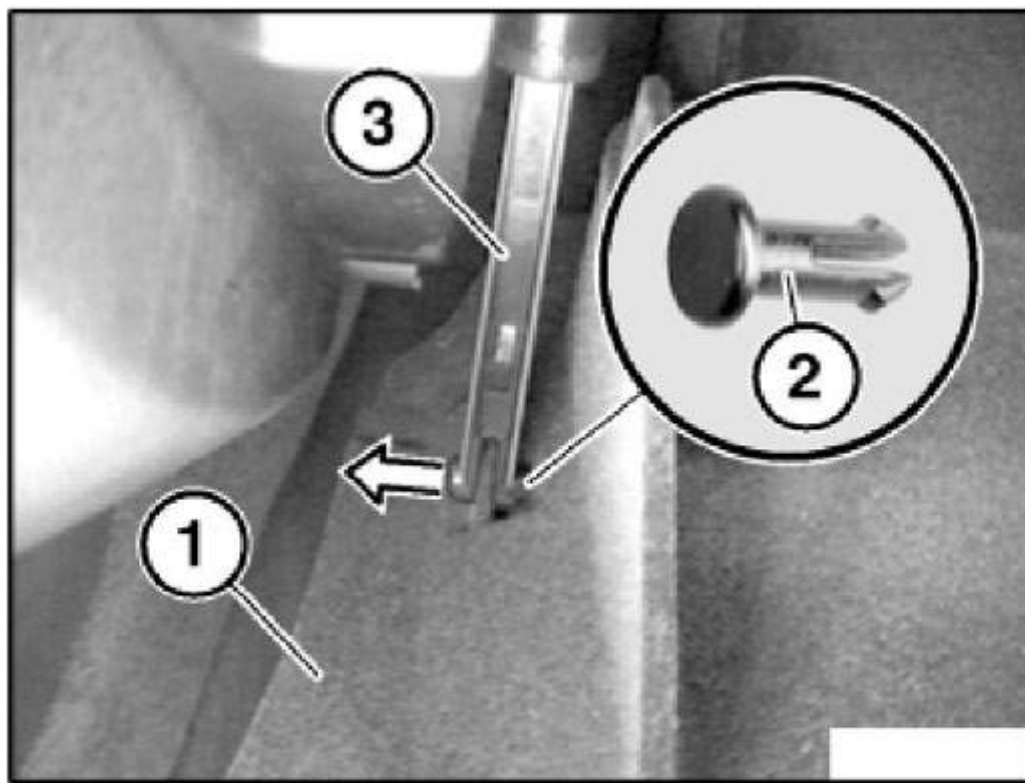
### **51 16 360 REMOVING AND INSTALLING RIGHT GLOVE BOX**

Remove bottom right trim panel from instrument panel. Refer to **51 45 181 REMOVING AND INSTALLING/REPLACING TRIM FOR INSTRUMENT PANEL, BOTTOM RIGHT** .

Open glovebox.

Lever out glovebox lamp and disconnect plug connection.

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



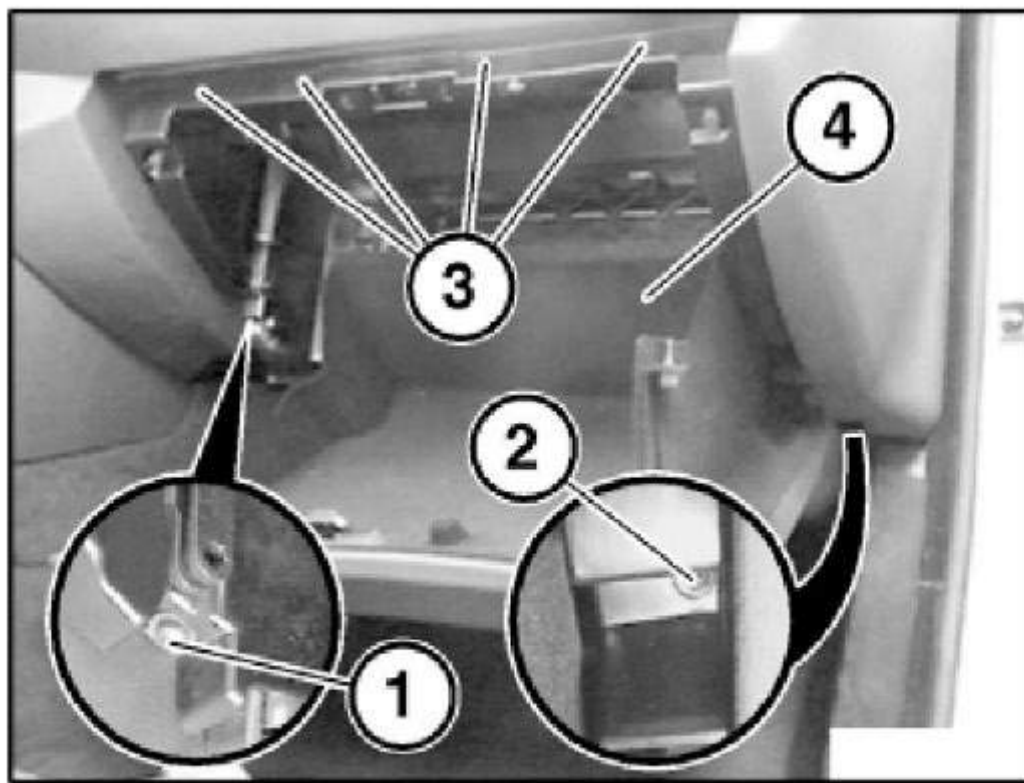
G03255754

**Fig. 184: Identifying 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).

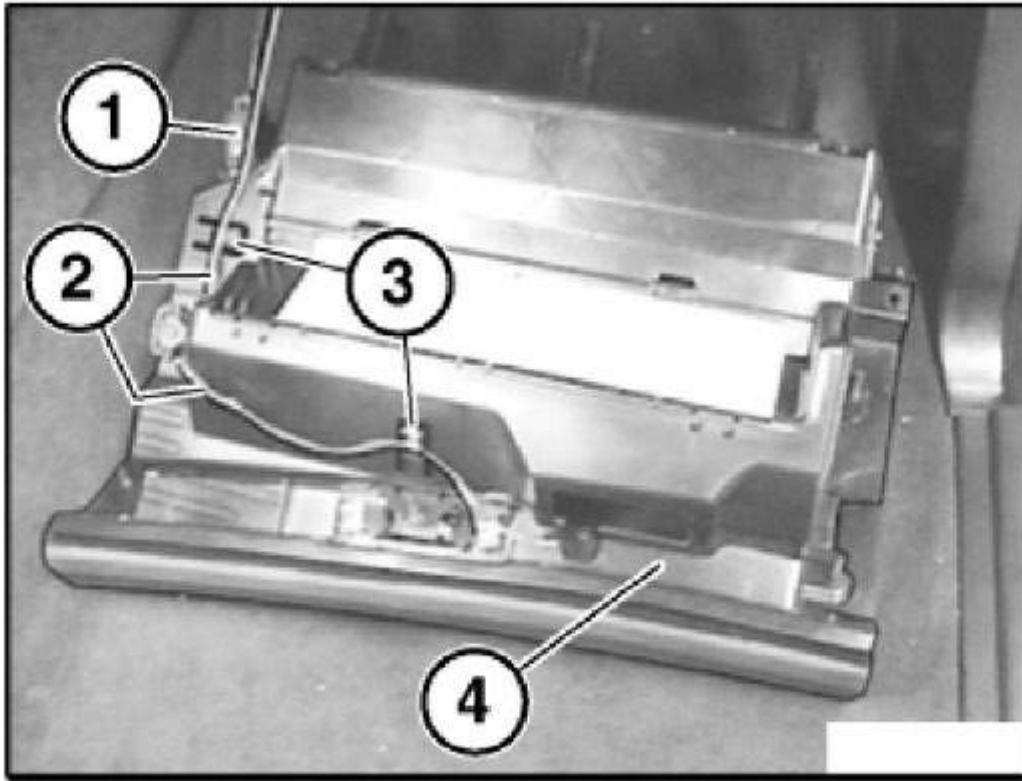
Release screws (3) and fold down glovebox (4).



G03255755

**Fig. 185: Releasing Screws From Glovebox**  
Courtesy of BMW OF NORTH AMERICA, INC.

If necessary, disconnect plug connection for portable lamp.



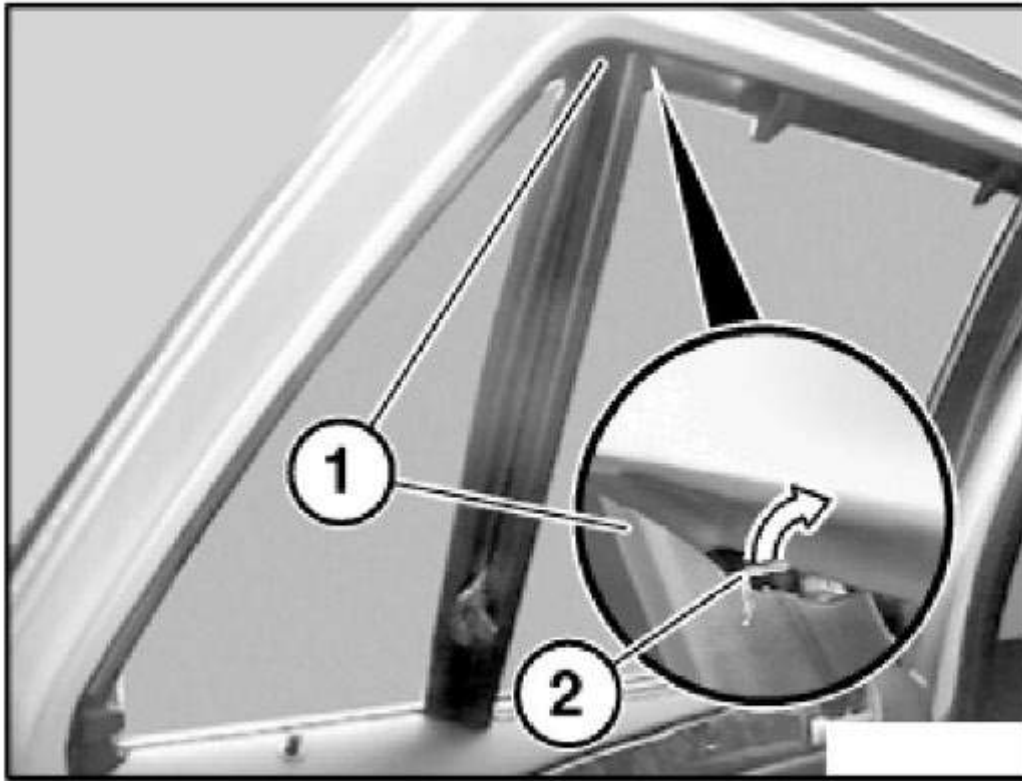
G03255756

**Fig. 186: Disconnecting Plug Connection For Portable Lamp**  
Courtesy of BMW OF NORTH AMERICA, INC.

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

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

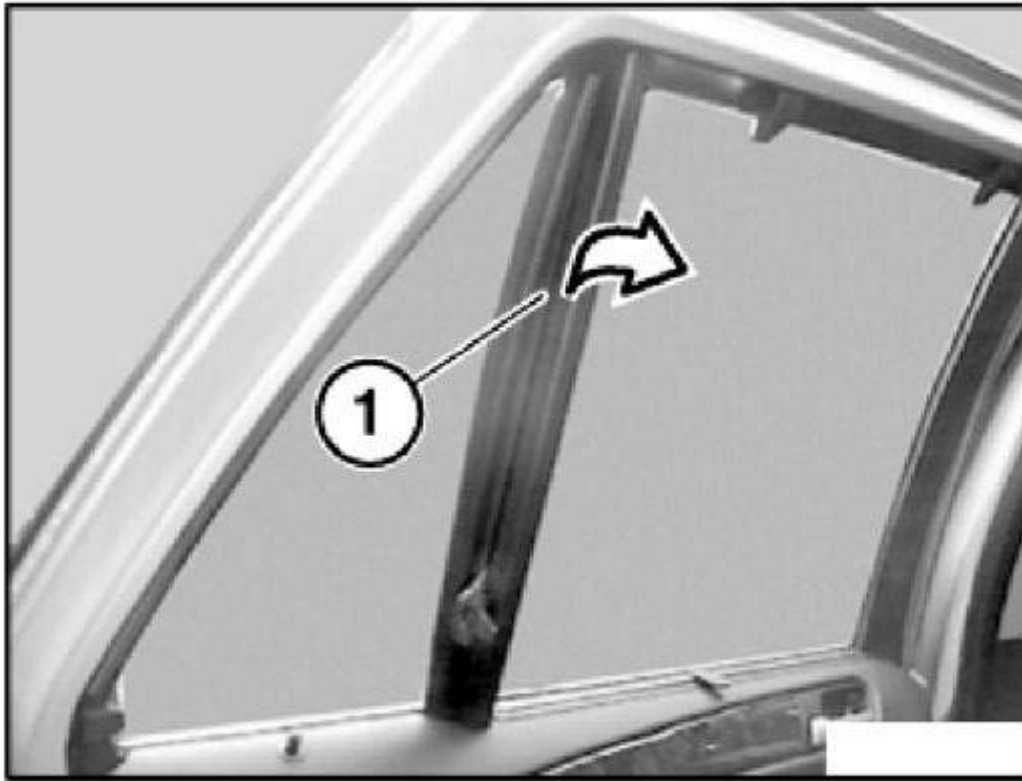
Pull roller sun blind (1) at top towards rear and snap out spring (2) towards top with a small screwdriver.



G03255757

**Fig. 187: Locating Roller Sun Blind Spring**  
Courtesy of BMW OF NORTH AMERICA, INC.

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



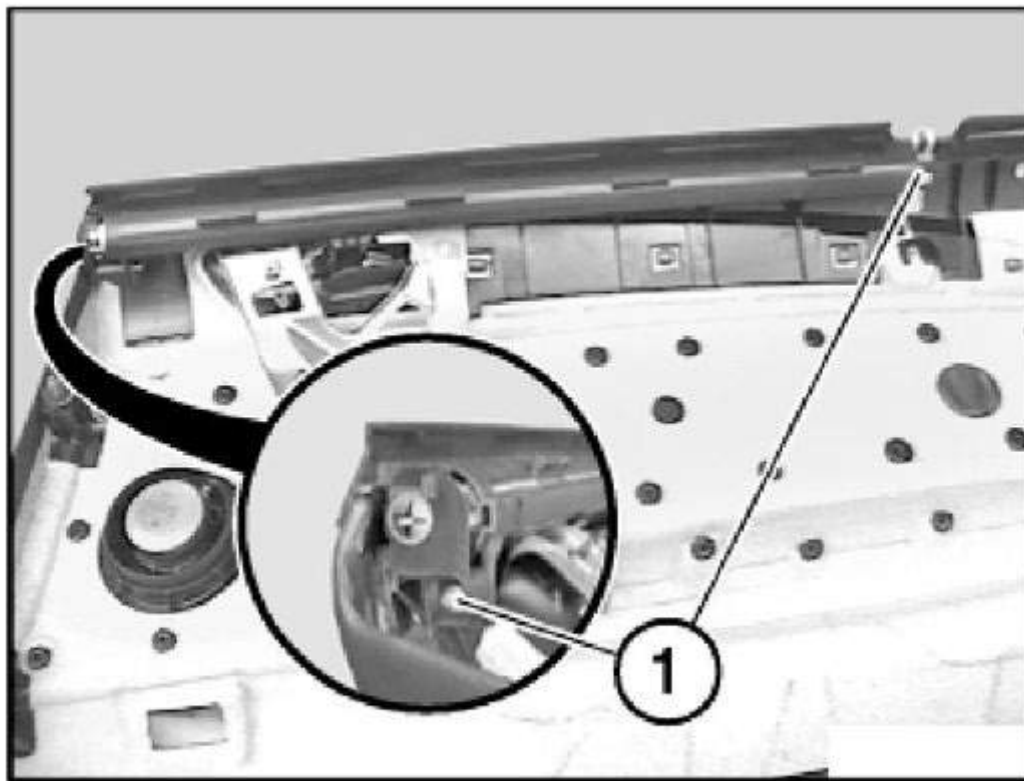
G03255758

**Fig. 188: 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. Refer to **51 42 000 REMOVING AND INSTALLING REAR LEFT OR RIGHT DOOR TRIM PANEL** .

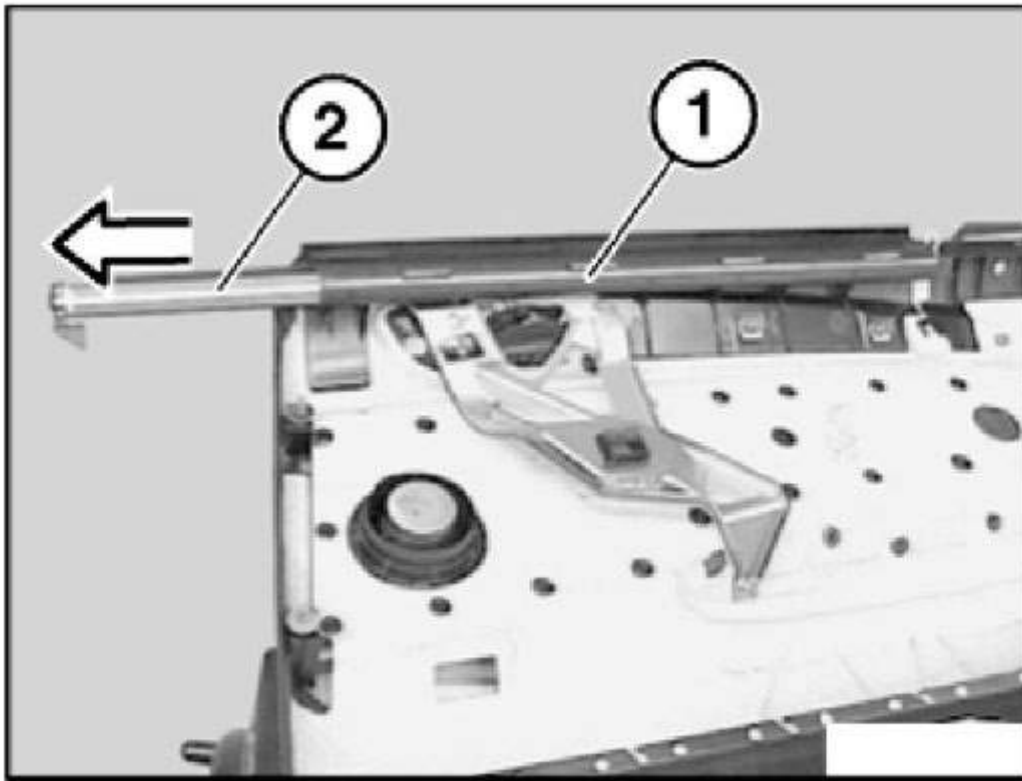
Release screws (1).



G03255759

**Fig. 189: Releasing Screws On Sun Blind**  
Courtesy of BMW OF NORTH AMERICA, INC.

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



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**Fig. 190: Raising Cover And Pulling Out Roller Sun Blind**  
Courtesy of BMW OF NORTH AMERICA, INC.

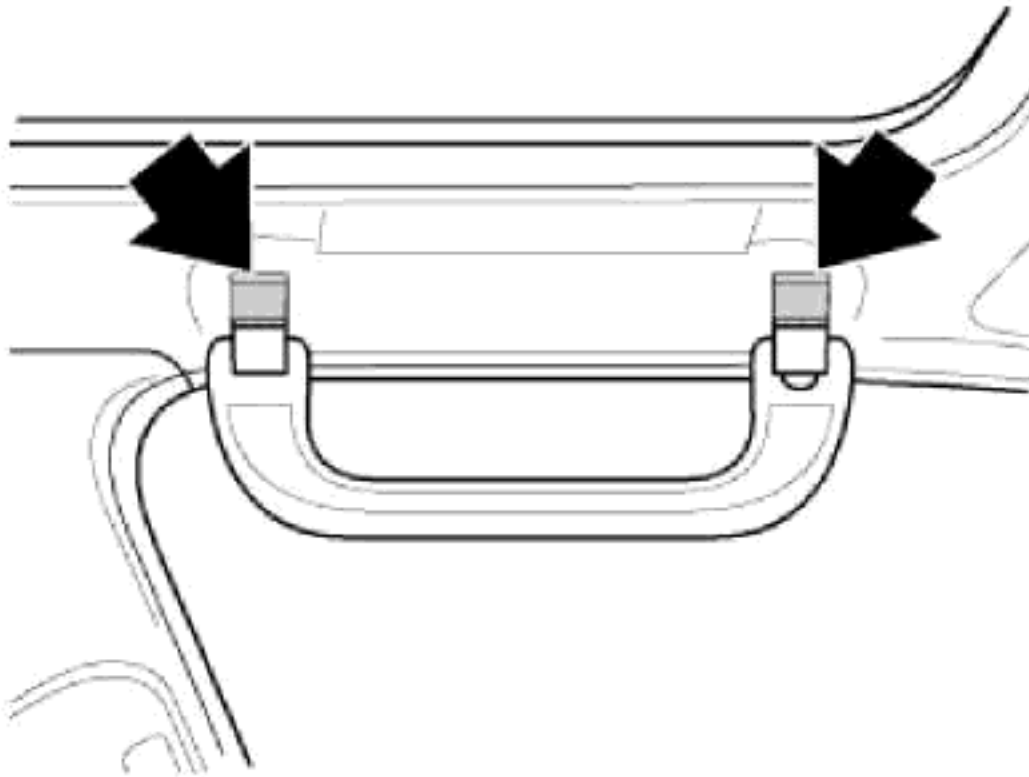
#### **51 16 450 REMOVING AND INSTALLING/REPLACING REAR LEFT/RIGHT GRAB HANDLE**

**Operation Is Identical To:**

Removing and installing/replacing front grab handle. Refer to **51 16 450 REMOVING AND INSTALLING/REPLACING REAR LEFT/RIGHT GRAB HANDLE** .

#### **51 16 480 REMOVING AND INSTALLING OR REPLACING FRONT GRAB HANDLE**

Fold finishers down and unfasten screws.



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**Fig. 191: Folding Finishers Down And Unfastening Screws**

Courtesy of BMW OF NORTH AMERICA, INC.

## LIDS

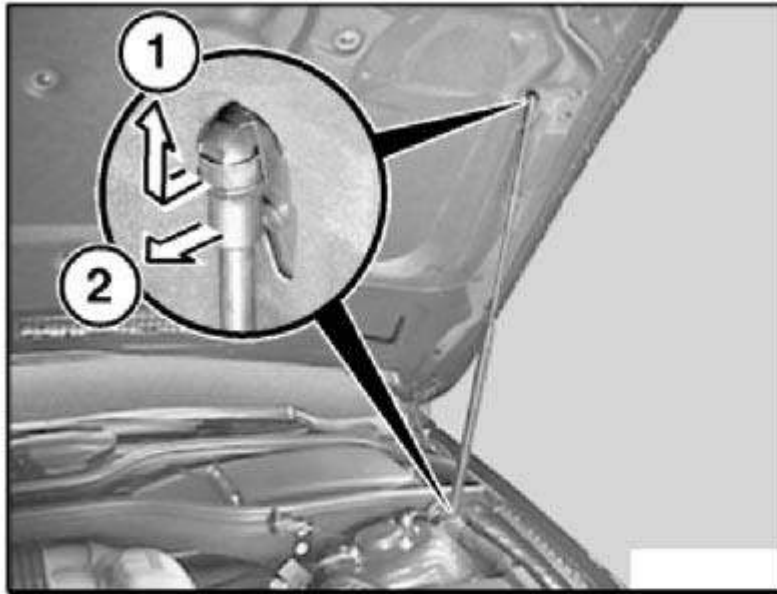
### 51 23 265 REMOVING AND INSTALLING/REPLACING LEFT OR RIGHT GAS STRUT FOR ENGINE BONNET/HOOD

**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



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

G03255762

**Fig. 192: Identifying Retainer Spring and Strut**  
Courtesy of BMW OF NORTH AMERICA, INC.

## **FRONT DOOR LOCKS, HANDLES, FITTINGS**

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

Adjust left or right front door.

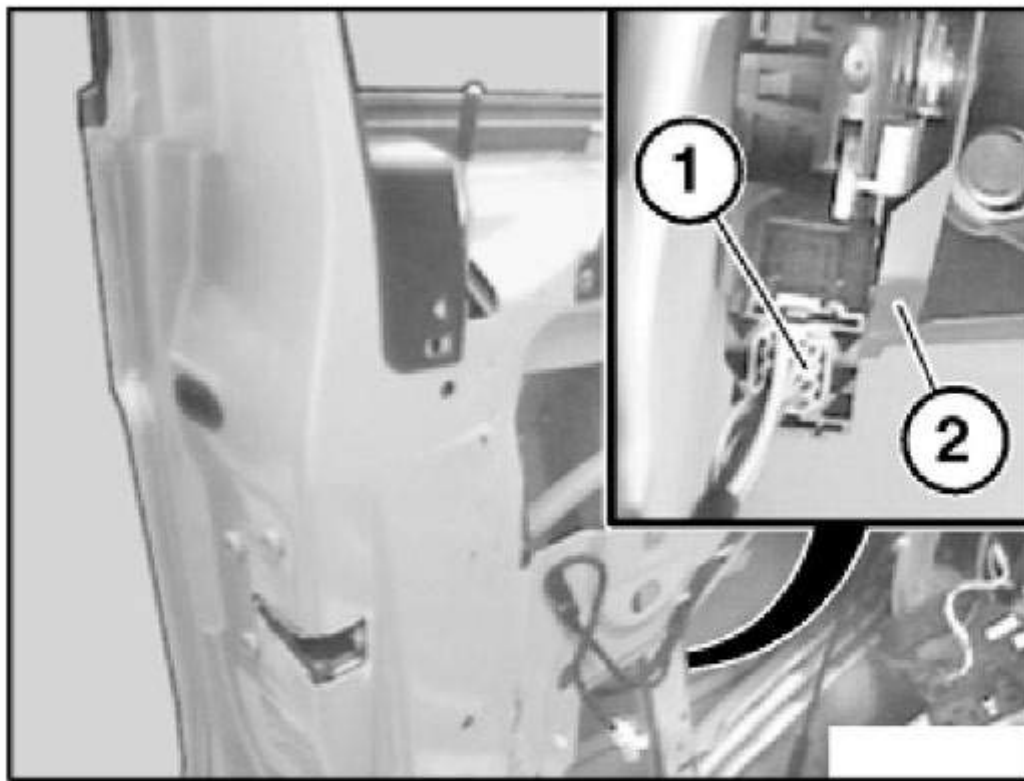
### **51 21 090 REMOVING AND INSTALLING/REPLACING DOOR LOCK ON LEFT OR RIGHT FRONT DOOR**

Remove sound insulation on front door. Refer to **51 48 ... REMOVING AND INSTALLING/REPLACING SOUND INSULATION IN FRONT DOOR, LEFT OR RIGHT** .

Driver's side only:

Remove complete lock cylinder. Refer to **51 21 140 REMOVING AND INSTALLING/REPLACING COMPLETE LOCK CYLINDER** .

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

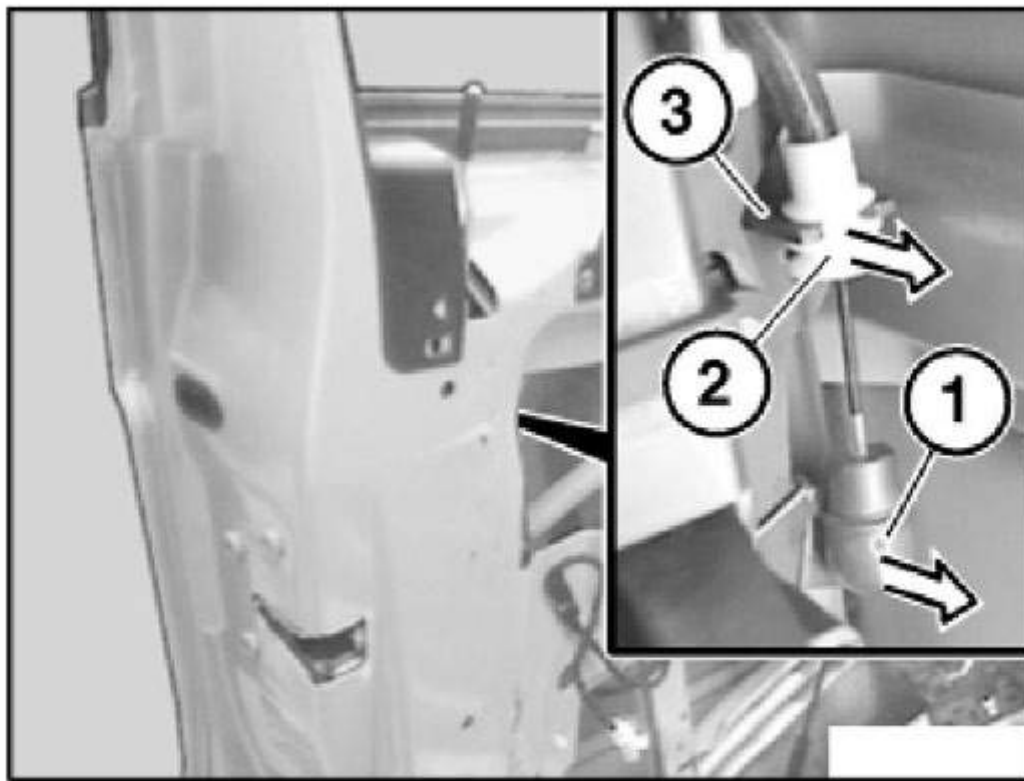


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**Fig. 193: Disconnecting Plug Connection On Door Lock**  
Courtesy of BMW OF NORTH AMERICA, INC.

Unclip ball head (1).

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

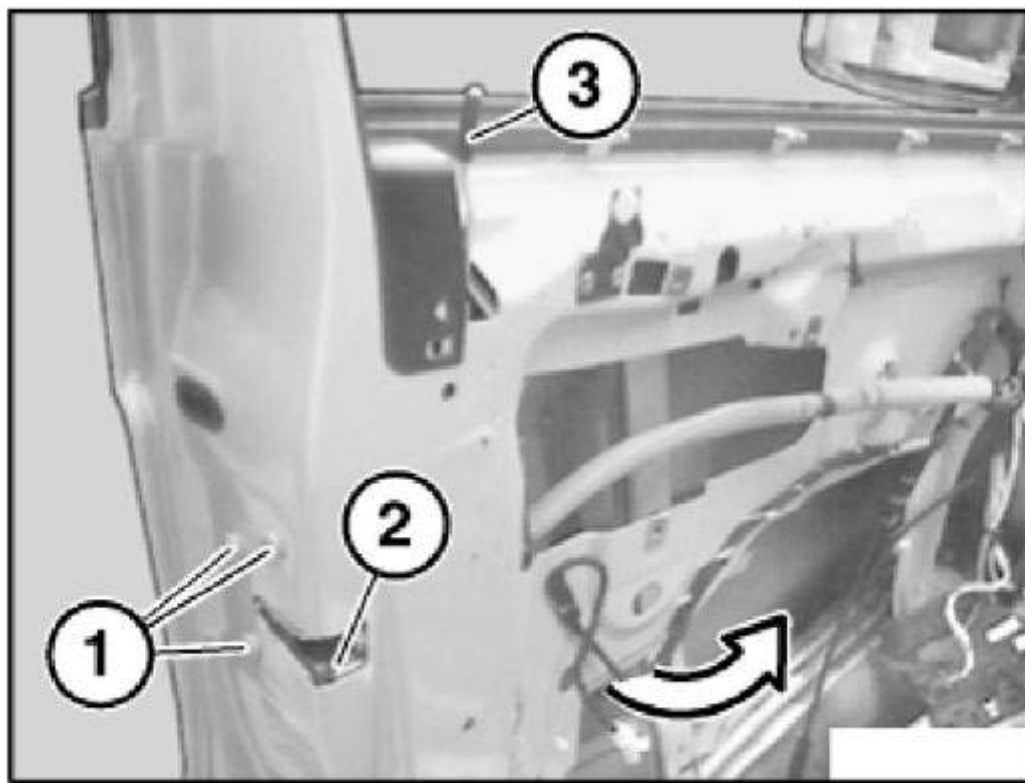


G03255764

**Fig. 194: Detaching Bowden Cable From Support**  
Courtesy of BMW OF NORTH AMERICA, INC.

Release screws (1).

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



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**Fig. 195: Removing Door Lock With Linkage**  
Courtesy of BMW OF NORTH AMERICA, INC.

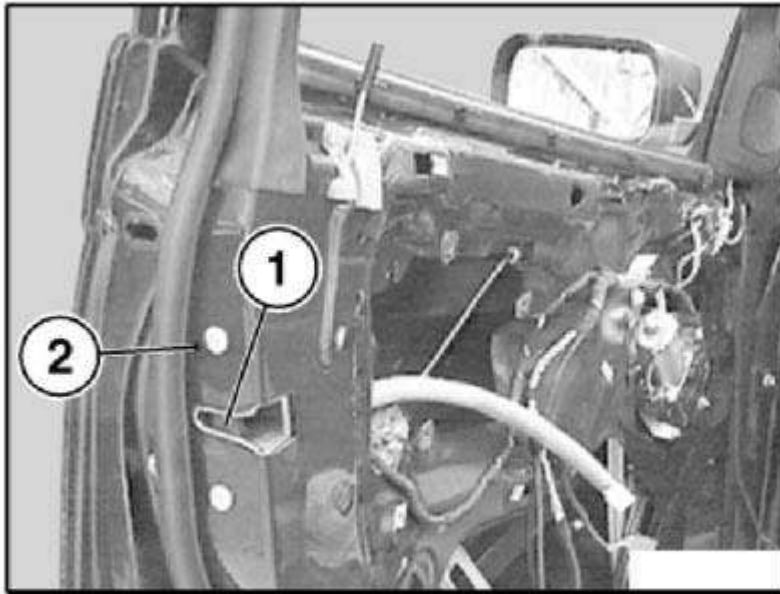
**Installation:**

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

Do not bend linkage (3).

Replace screws (1).

Tightening torque, (9 N.m.).



G03255766

**Fig. 196: Removing Door Lock With Linkage**  
Courtesy of BMW OF NORTH AMERICA, INC.

**Installation:**

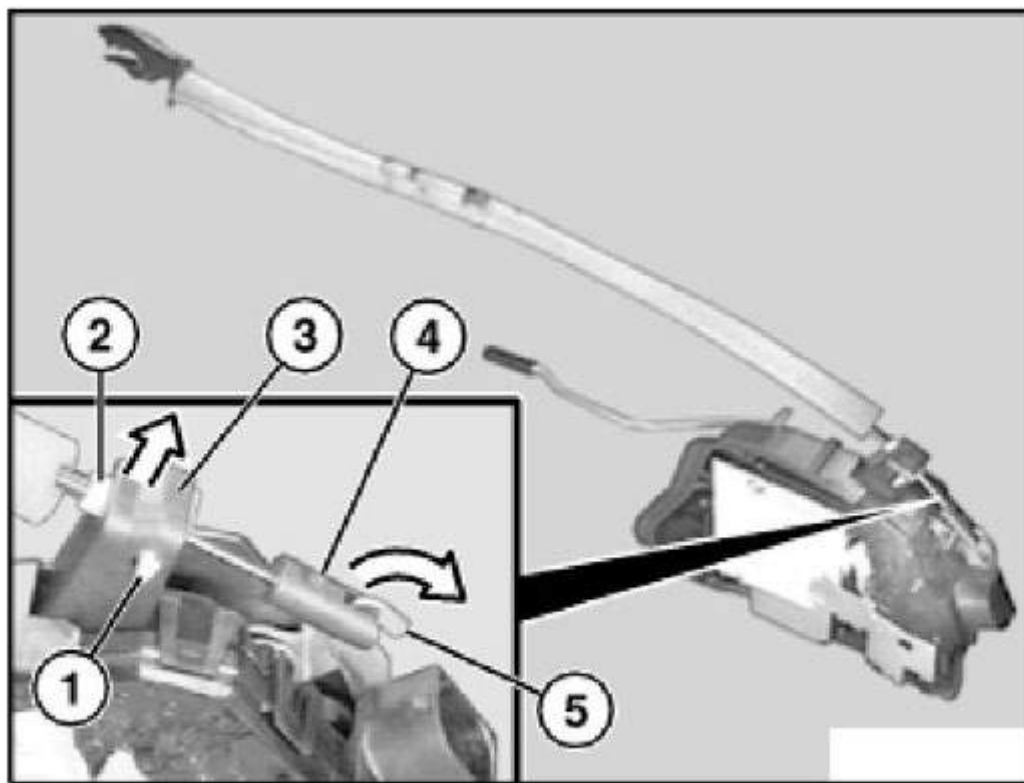
Carry out function check only with door open.

- 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.

**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).



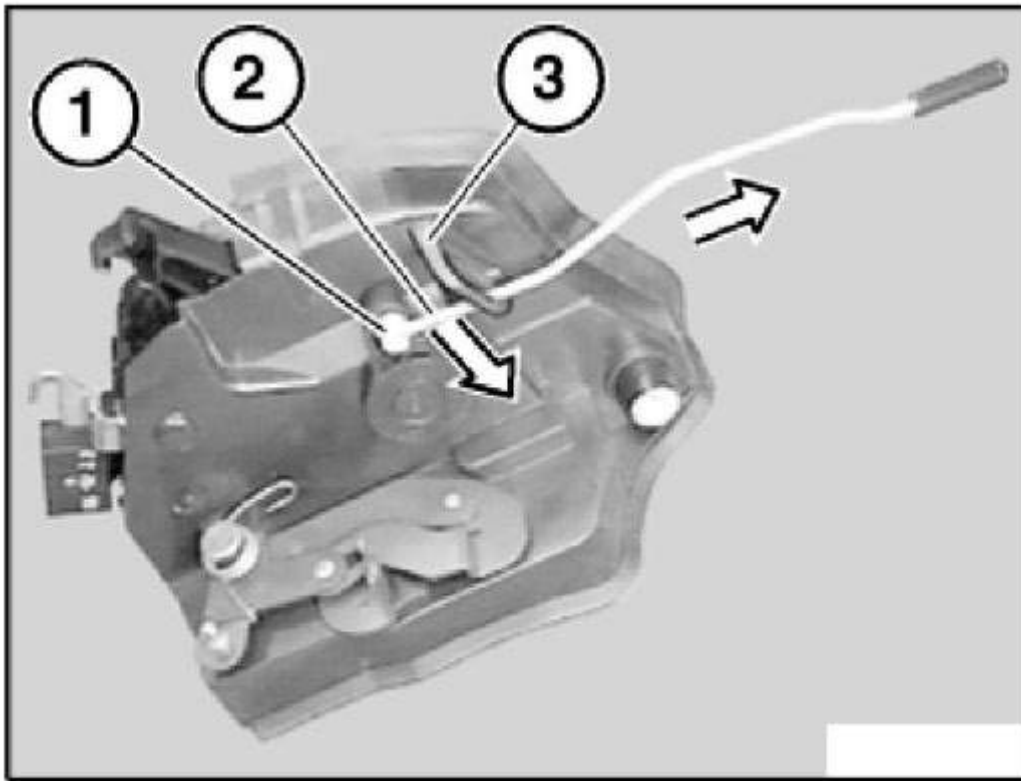
G03255767

**Fig. 197: Detaching Bowden Cable From Fixture**  
Courtesy of BMW OF NORTH AMERICA, INC.

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

Only replacement:

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



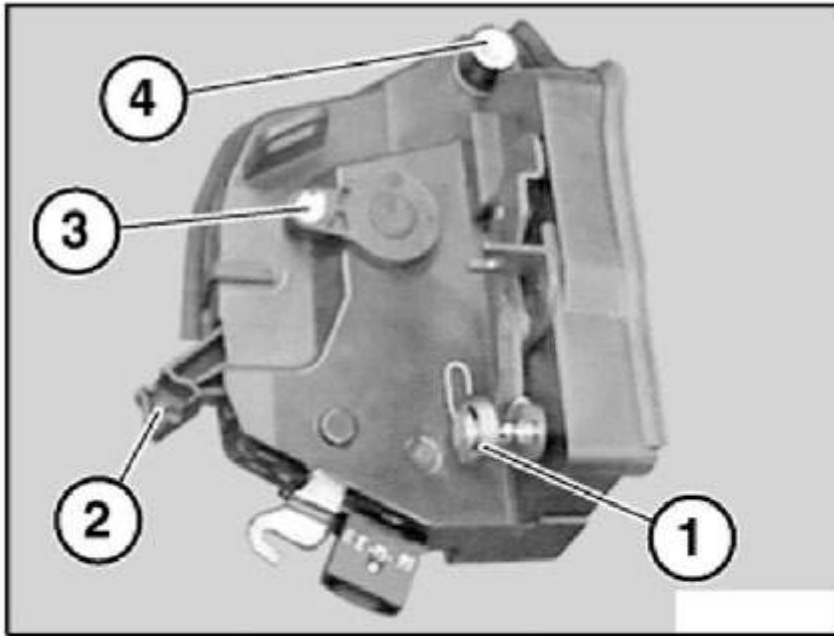
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**Fig. 198: Unclipping Linkage For Locking Knob From Support**  
Courtesy of BMW OF NORTH AMERICA, INC.

**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).



- 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)

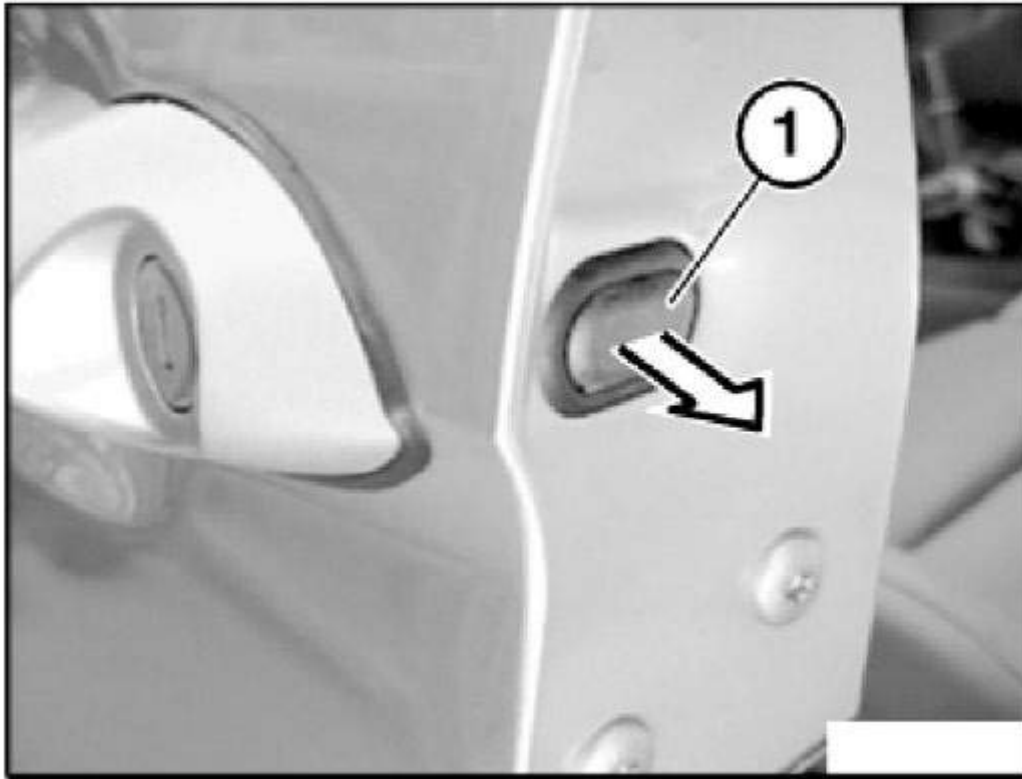
G03255769

**Fig. 199: Identifying Components Of Door Lock**  
Courtesy of BMW OF NORTH AMERICA, INC.

The illustration shows the left driver's door lock.

#### **51 21 140 REMOVING AND INSTALLING/REPLACING COMPLETE LOCK CYLINDER**

Remove plate (1).



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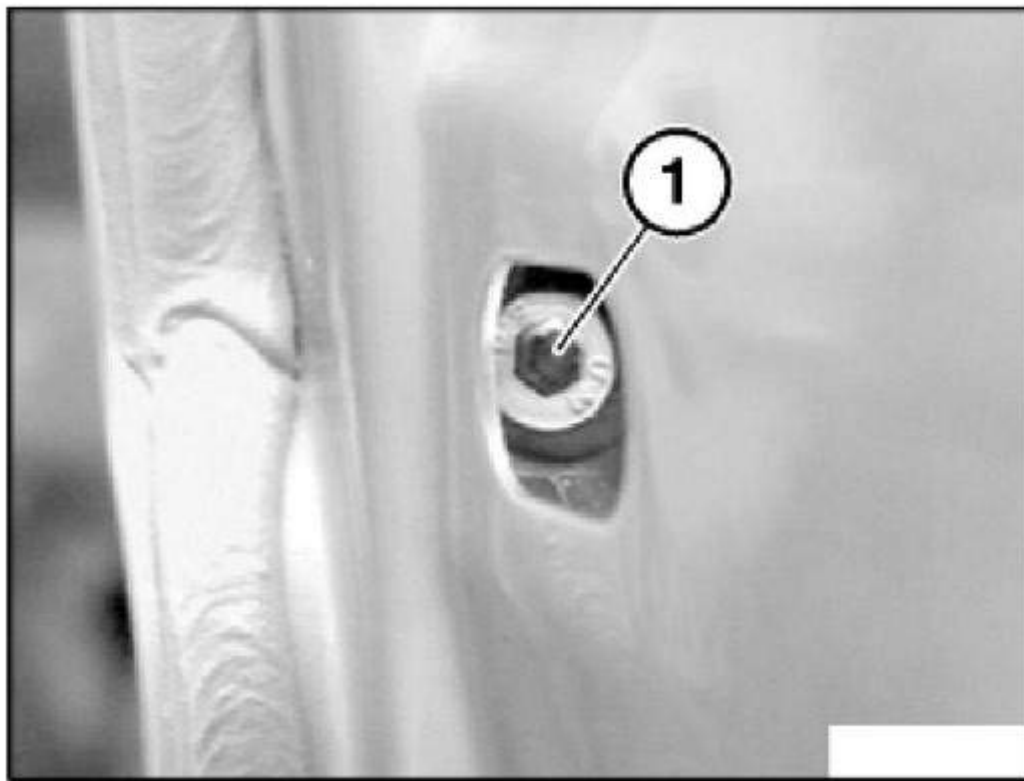
**Fig. 200: Removing Plate**

**Courtesy of BMW OF NORTH AMERICA, INC.**

**Installation:**

Fit new plate (1).

Release screw (1).



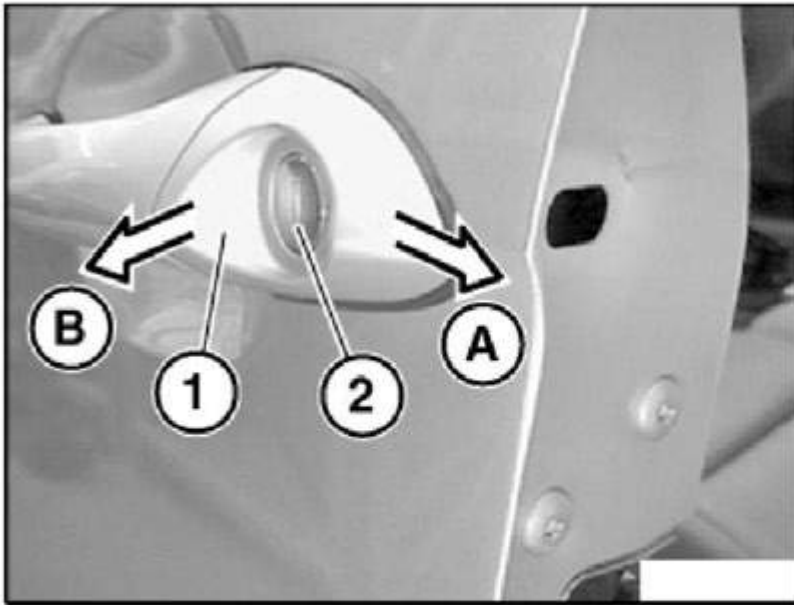
G03255771

**Fig. 201: Releasing Screw**

**Courtesy of BMW OF NORTH AMERICA, INC.**

Removing cover (1) on outside handle:

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



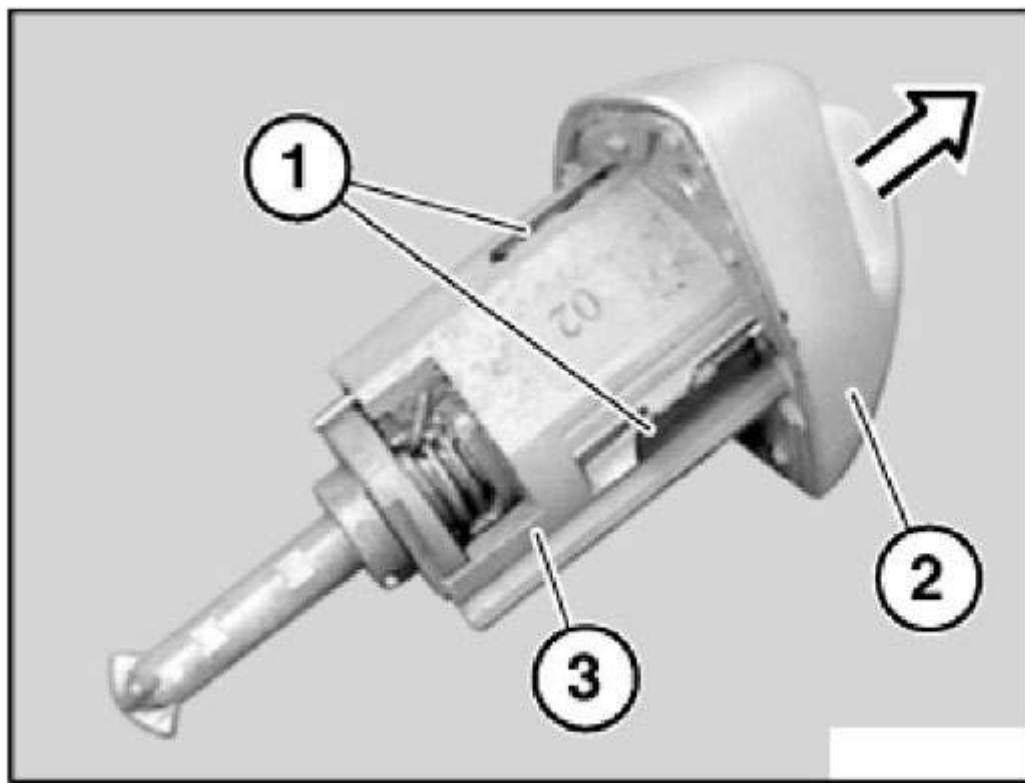
A Pull cover (1) approx. 1 ... 2 mm towards rear.

B Detach cover (1) with lock barrel (2) towards outside.

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**Fig. 202: Removing Cover On Outside Handle**  
Courtesy of BMW OF NORTH AMERICA, INC.

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

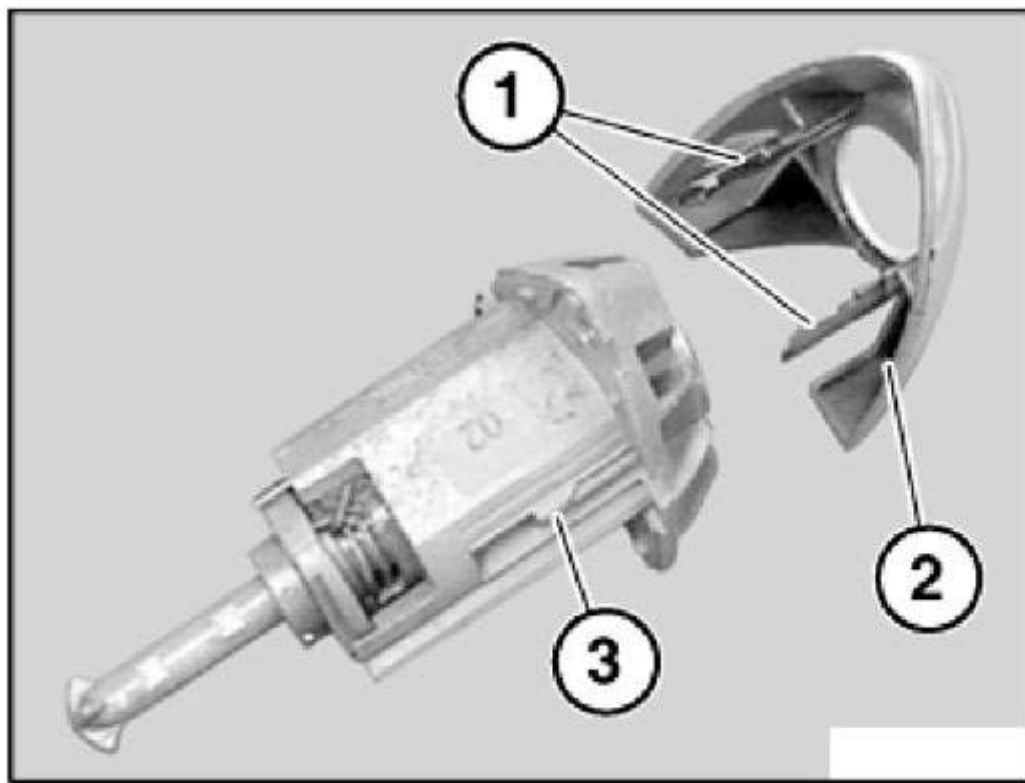


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**Fig. 203: Removing Catches And Detaching Cover From Lock Cylinder**  
Courtesy of BMW OF NORTH AMERICA, INC.

**Installation:**

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



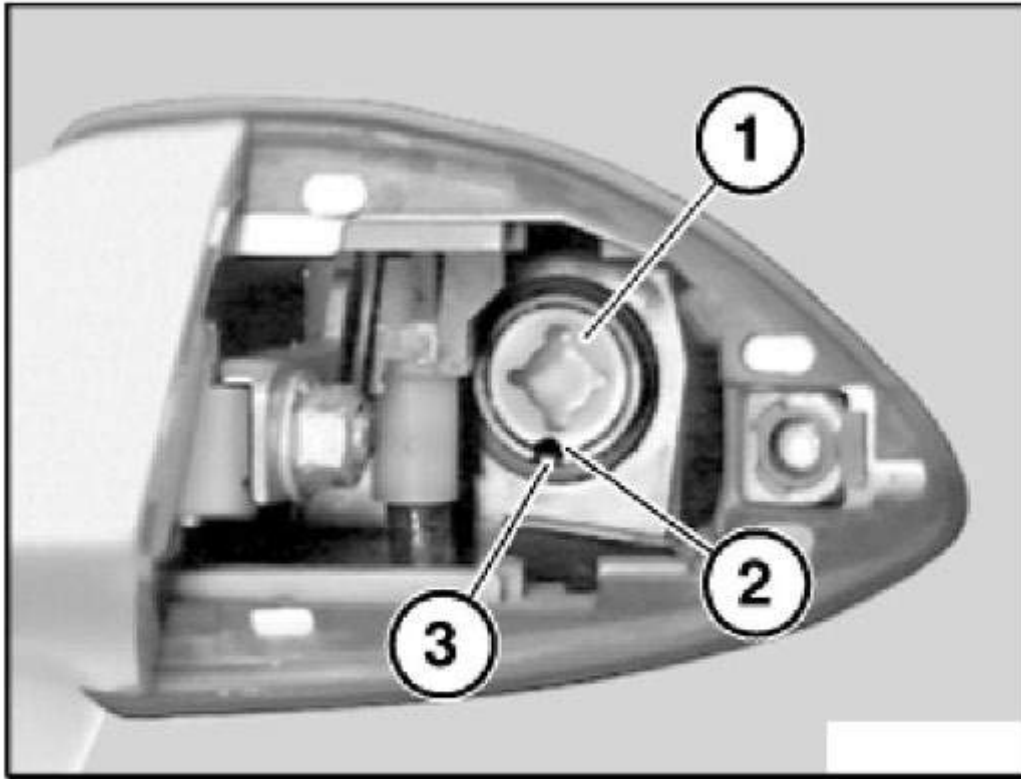
G03255774

**Fig. 204: Identifying Lock Cylinder Catches**  
Courtesy of BMW OF NORTH AMERICA, INC.

(3) Lock cylinder.

**Installation:**

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



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**Fig. 205: Aligning Notch On Paddle Support**  
Courtesy of BMW OF NORTH AMERICA, INC.

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

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

#### **Driver's Side:**

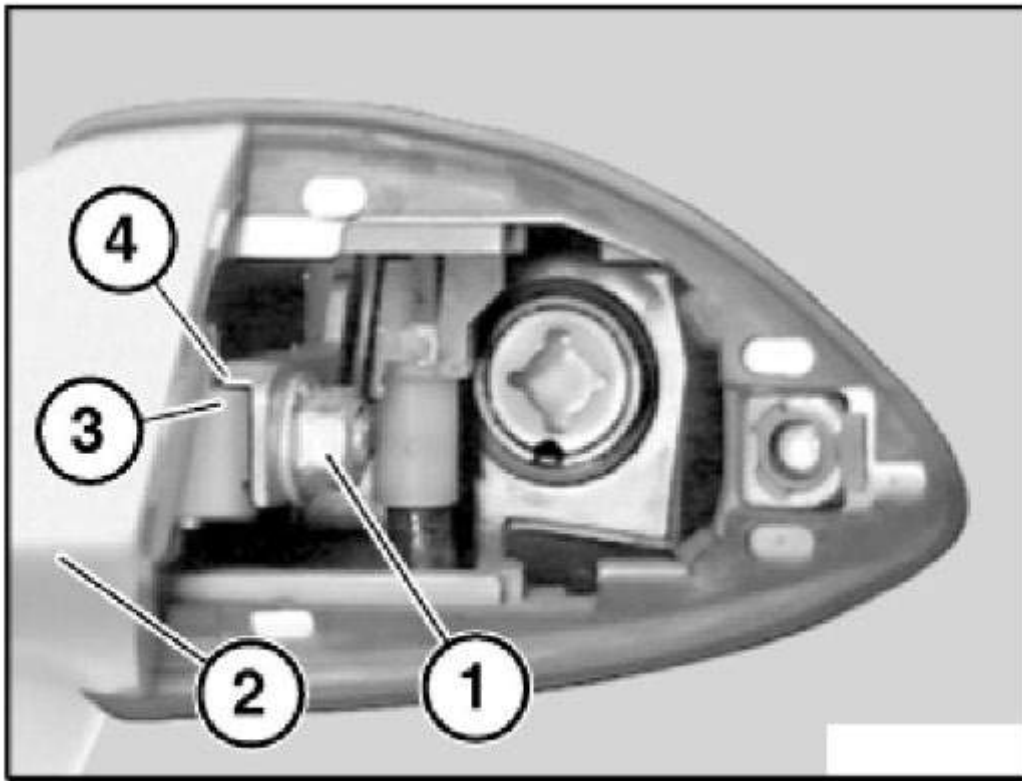
Remove lock cylinder completely from front door. Refer to **51 21 140 REMOVING AND INSTALLING/REPLACING COMPLETE LOCK CYLINDER** .

#### **Passenger Side:**

Remove cover on outside handle. **51 21 180 REMOVING AND INSTALLING/REPLACING COVER ON OUTSIDE HANDLE** .

**Removal:**

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



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**Fig. 206: Locating Nut On Outside Handle**  
Courtesy of BMW OF NORTH AMERICA, INC.

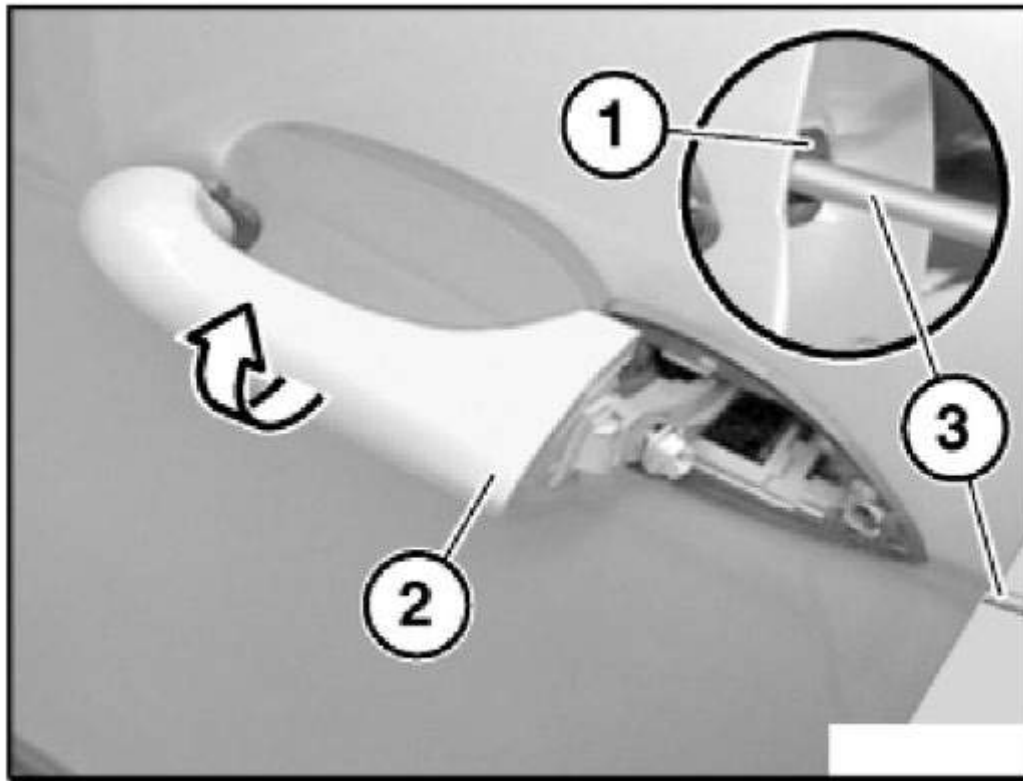
**Installation:**

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

Tightening torque, (3.2 N.m.).

**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).

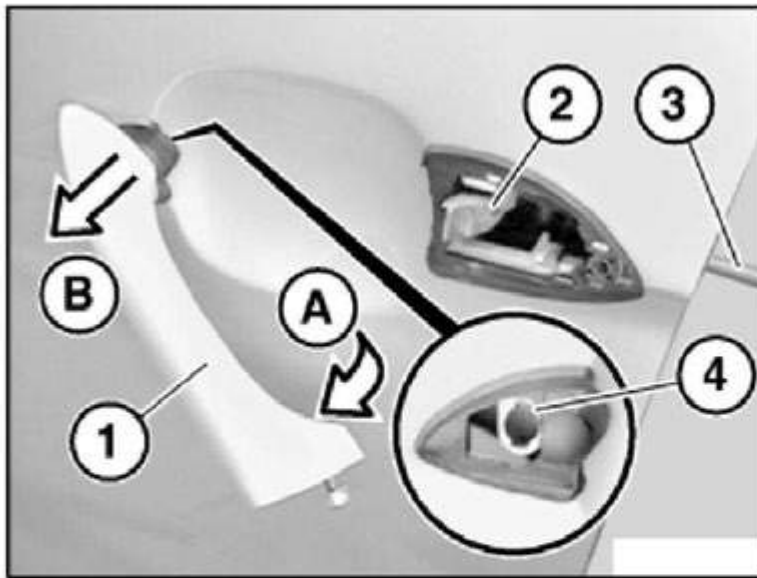


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**Fig. 207: Aligning And Securing Outside Handle**  
Courtesy of BMW OF NORTH AMERICA, INC.

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

- 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).



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).

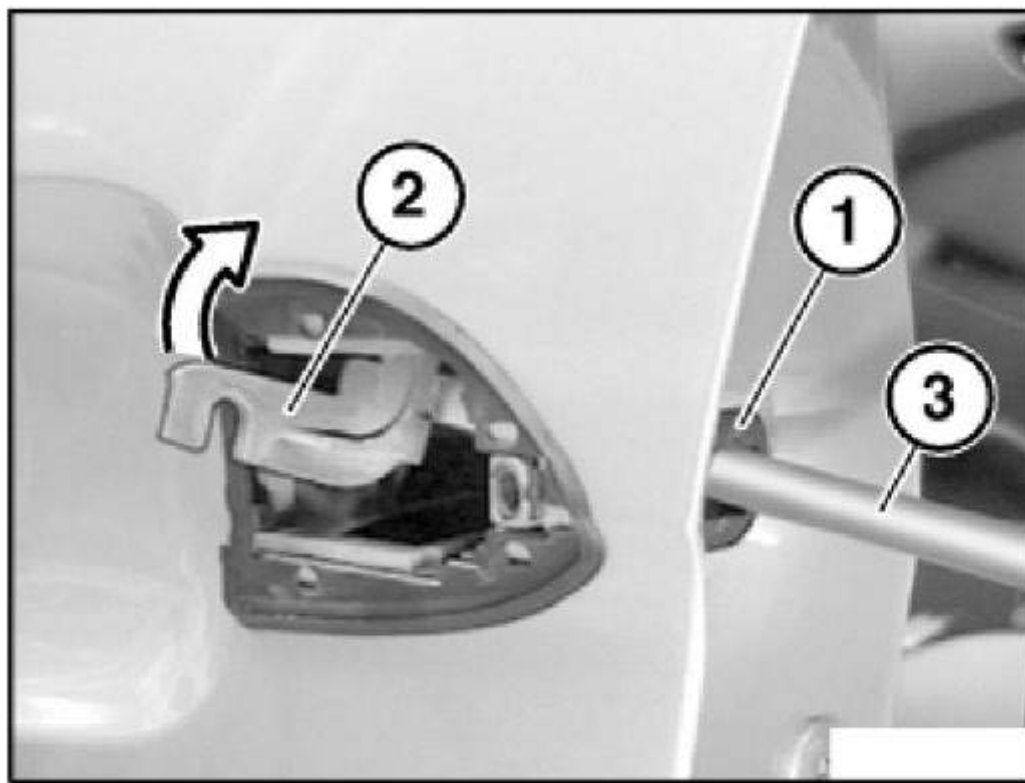
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**Fig. 208: Removing Outside Handle From Rear Lock Actuator**  
Courtesy of BMW OF NORTH AMERICA, INC.

**Installation:**

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

Press lock actuator (2) with a screwdriver (3) fully into "Open" setting.



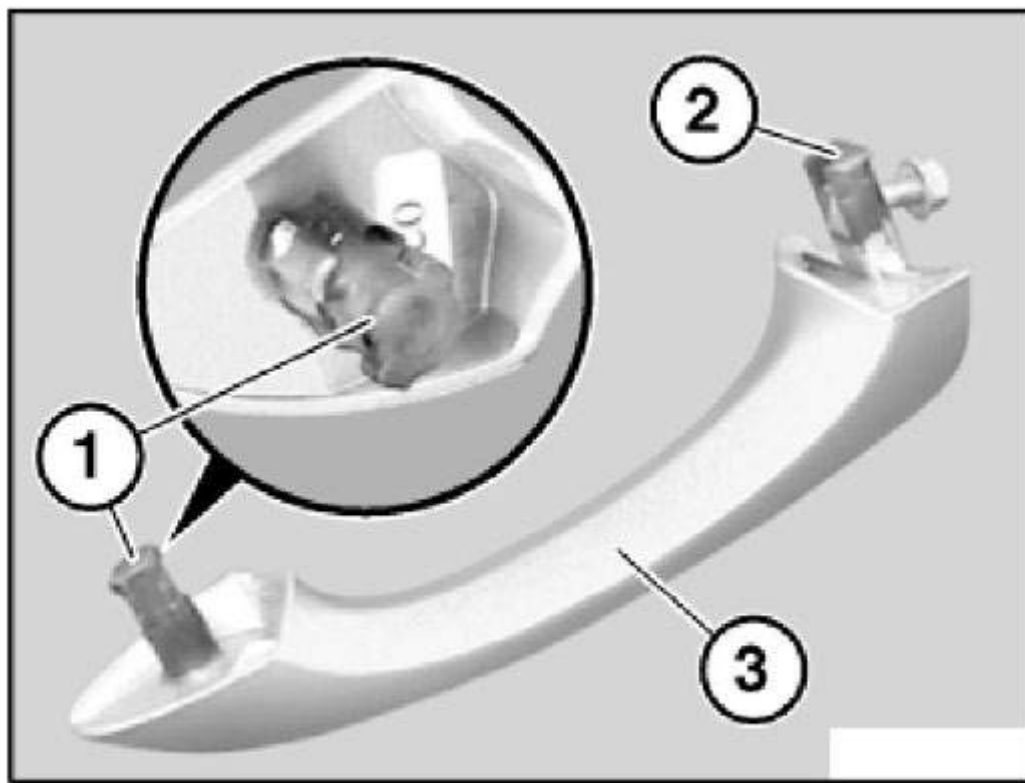
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**Fig. 209: Pressing Lock Actuator With A Screwdriver**  
Courtesy of BMW OF NORTH AMERICA, INC.

Mount outside handle in this position.

**Installation:**

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

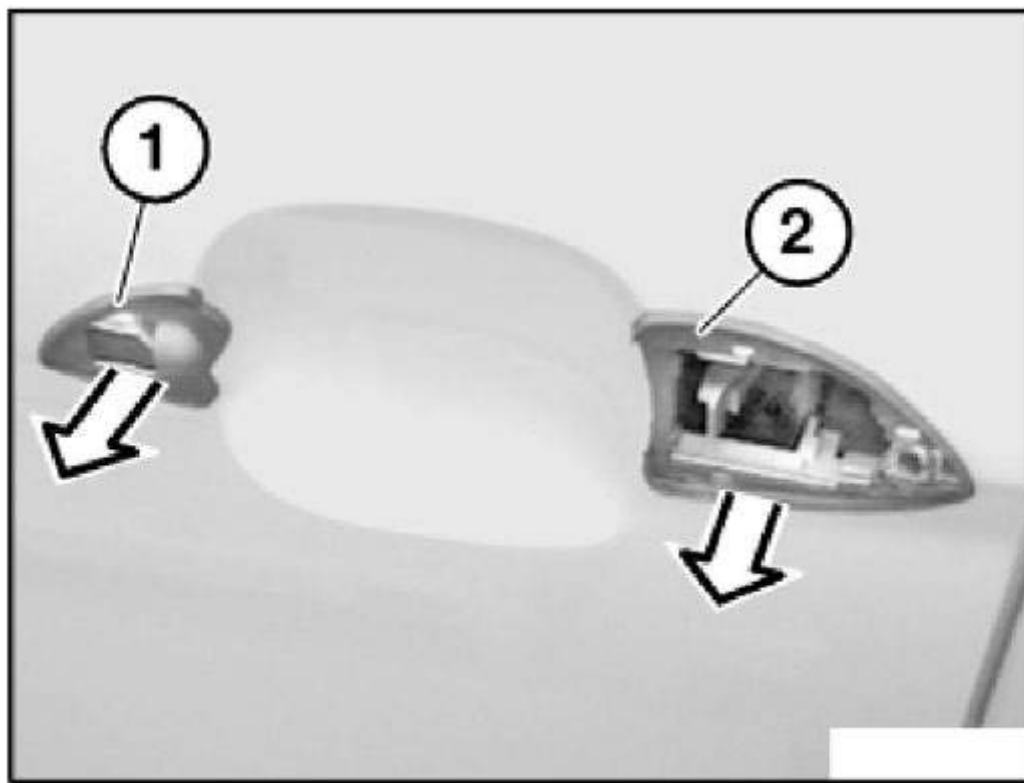


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**Fig. 210: Identifying Supports On Outside Handle**  
Courtesy of BMW OF NORTH AMERICA, INC.

**Installation:**

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



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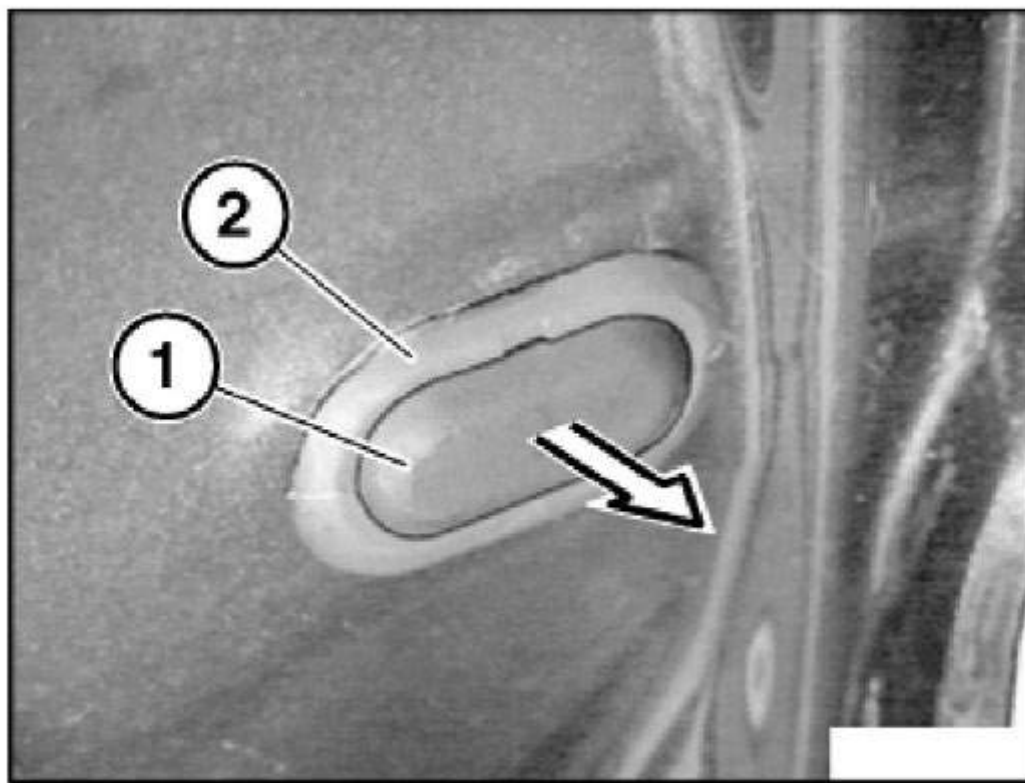
**Fig. 211: Locating Seals For Outside Handle**  
Courtesy of BMW OF NORTH AMERICA, INC.

**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).



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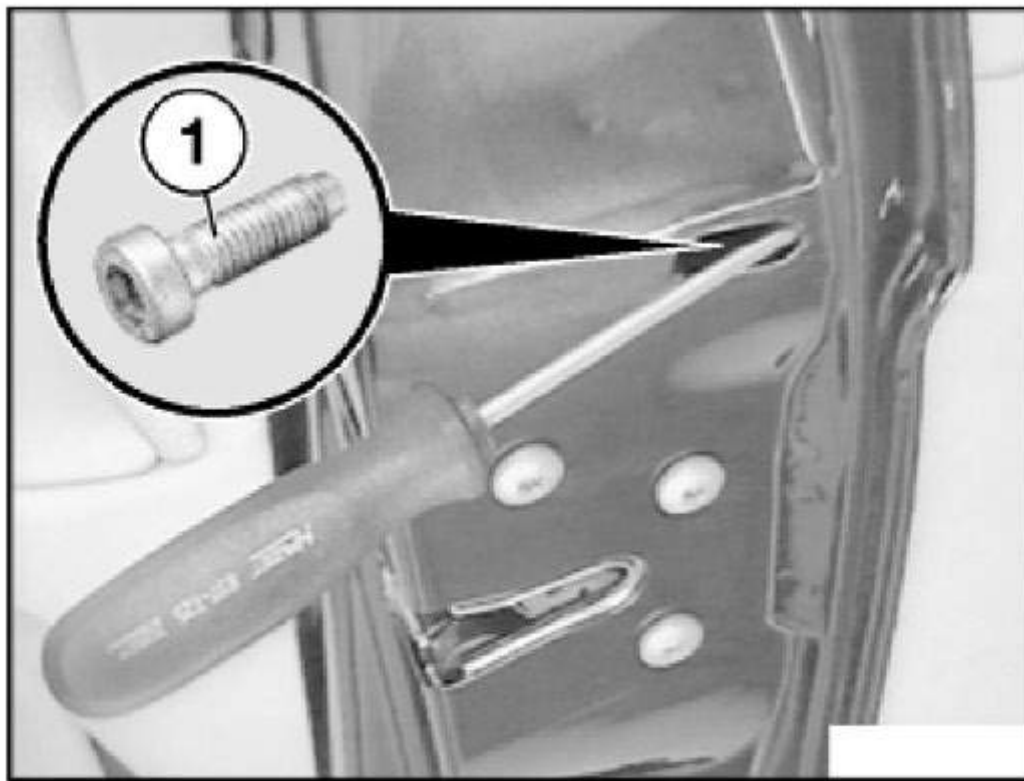
**Fig. 212: Levering Out Trim And Trim Frame**  
Courtesy of BMW OF NORTH AMERICA, INC.

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

**Installation:**

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

Release screw (1).

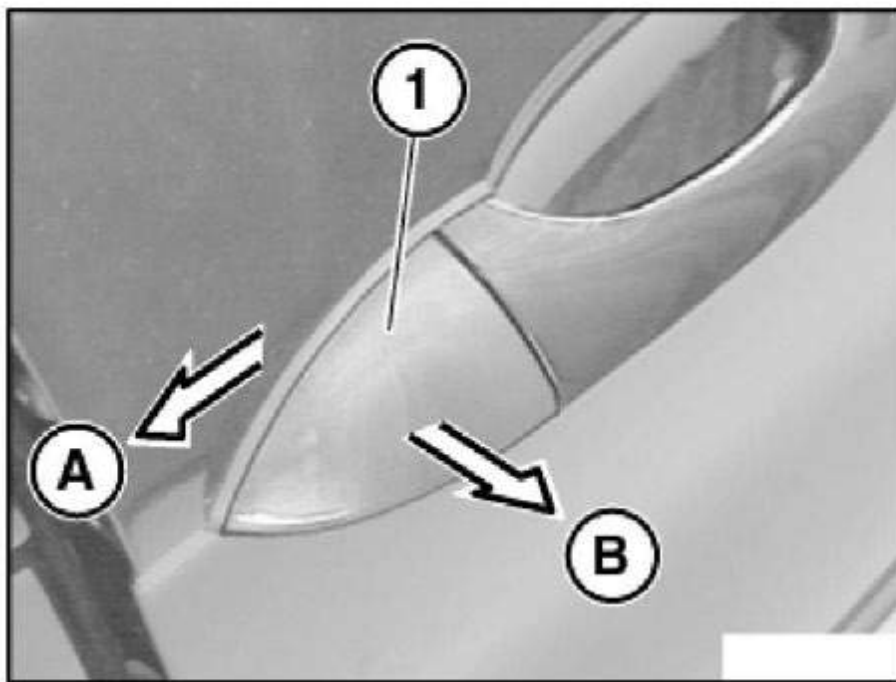


**G03255783**

**Fig. 213: Releasing Screw For Outside Handle**  
**Courtesy of BMW OF NORTH AMERICA, INC.**

Removing cover (1) on outside handle:

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



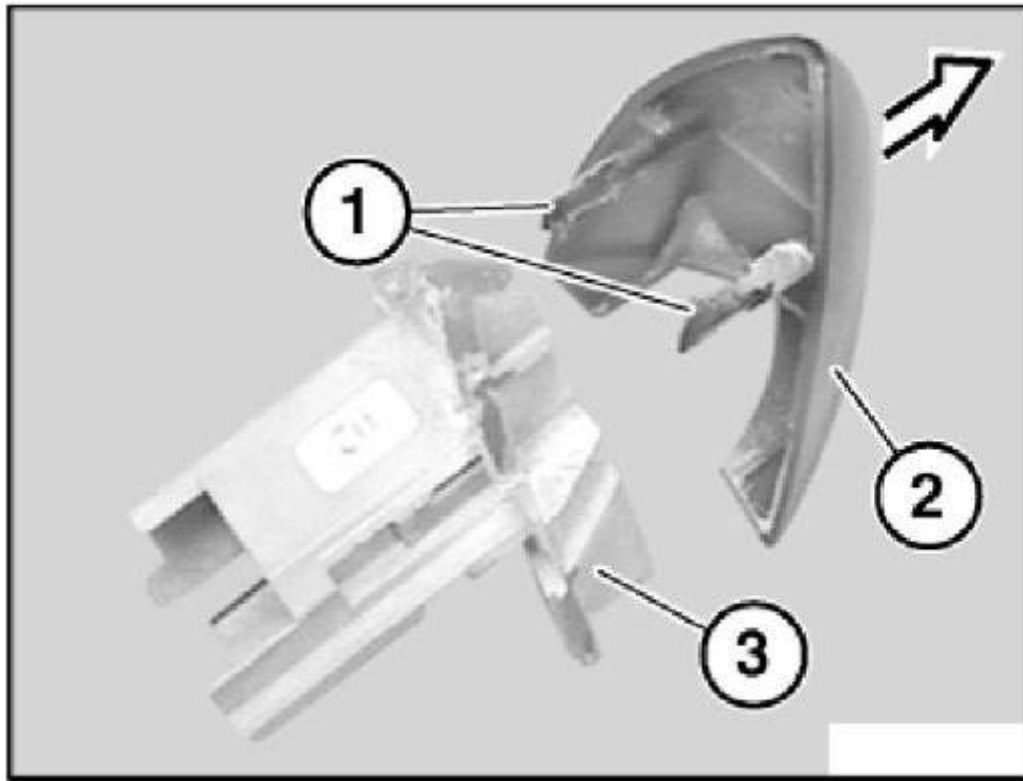
A Pull cover (1) approx. 1 ... 2 mm towards rear.

B Take off cover (1).

G03255784

**Fig. 214: Removing Cover On Outside Handle**  
Courtesy of BMW OF NORTH AMERICA, INC.

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



G03255785

**Fig. 215: Detaching Cover From Filler Element**  
Courtesy of BMW OF NORTH AMERICA, INC.

**Installation:**

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

**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:**

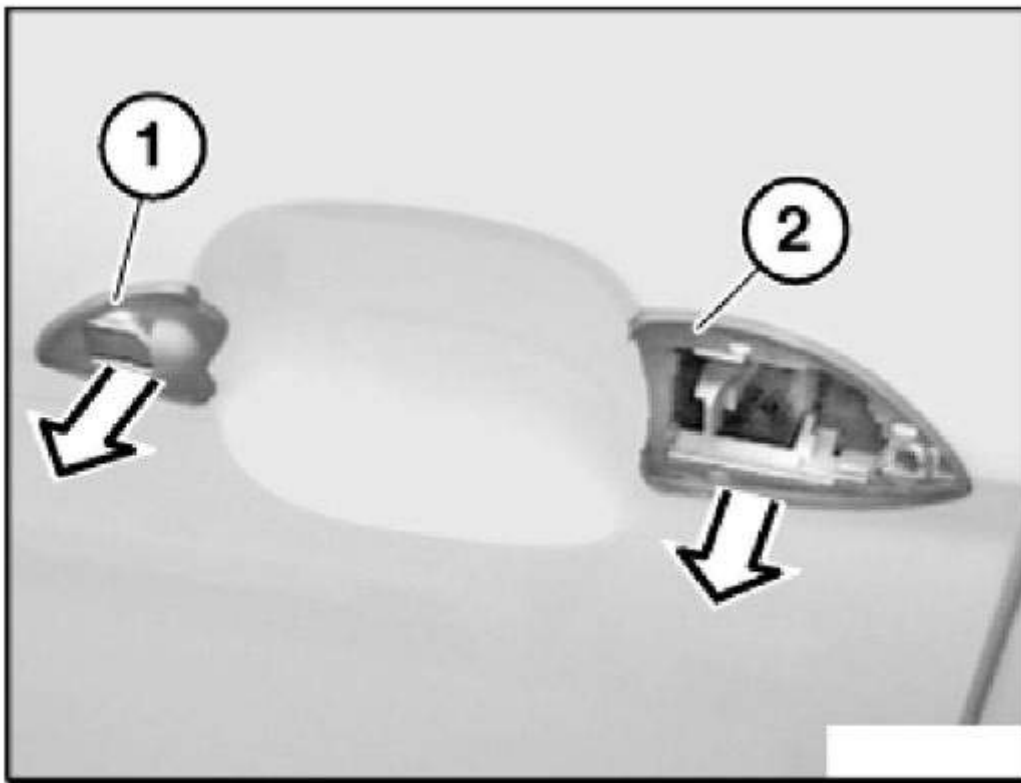
Remove and install/replace complete locking cylinder from left or right front door, refer to **51 21 140 REMOVING AND INSTALLING/REPLACING COMPLETE LOCK CYLINDER** .

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

Remove sound insulation on front door. Refer to **51 48 ... REMOVING AND INSTALLING/REPLACING SOUND INSULATION IN FRONT DOOR, LEFT OR RIGHT** .

Remove outside handle on front door. Refer to **51 21 170 REMOVING AND INSTALLING OR REPLACING OUTSIDE HANDLE FROM LEFT OR RIGHT FRONT DOOR** .

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

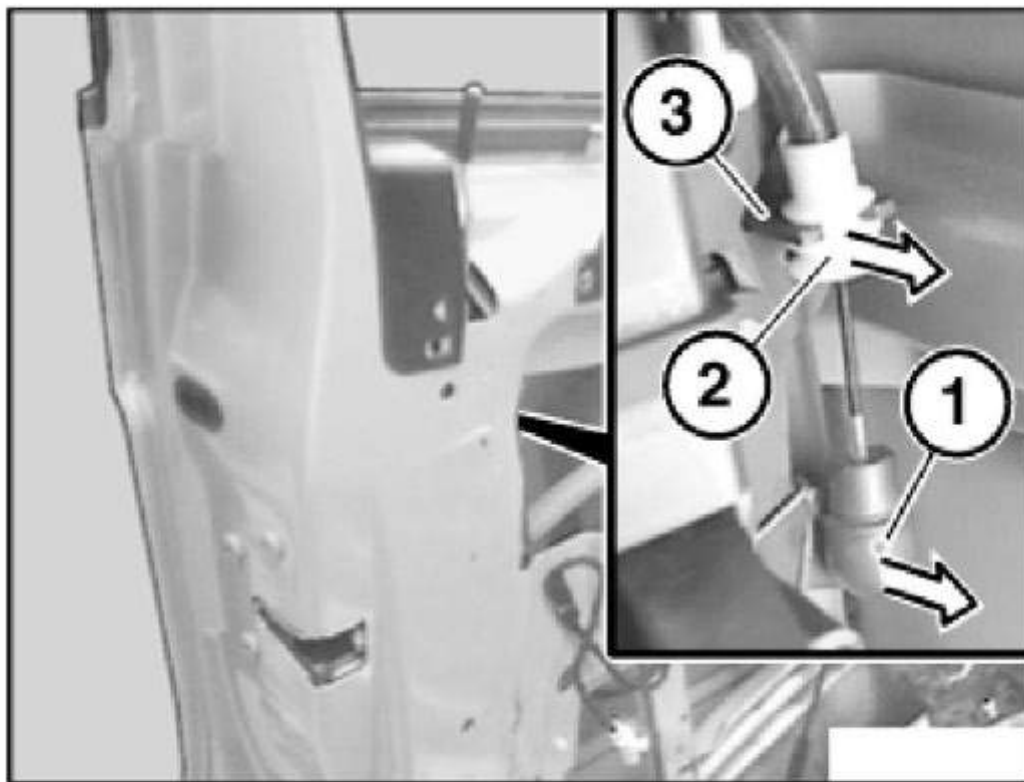


G03255786

**Fig. 216: Removing Seals For Outside Handle**  
Courtesy of BMW OF NORTH AMERICA, INC.

Unclip ball head (1).

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

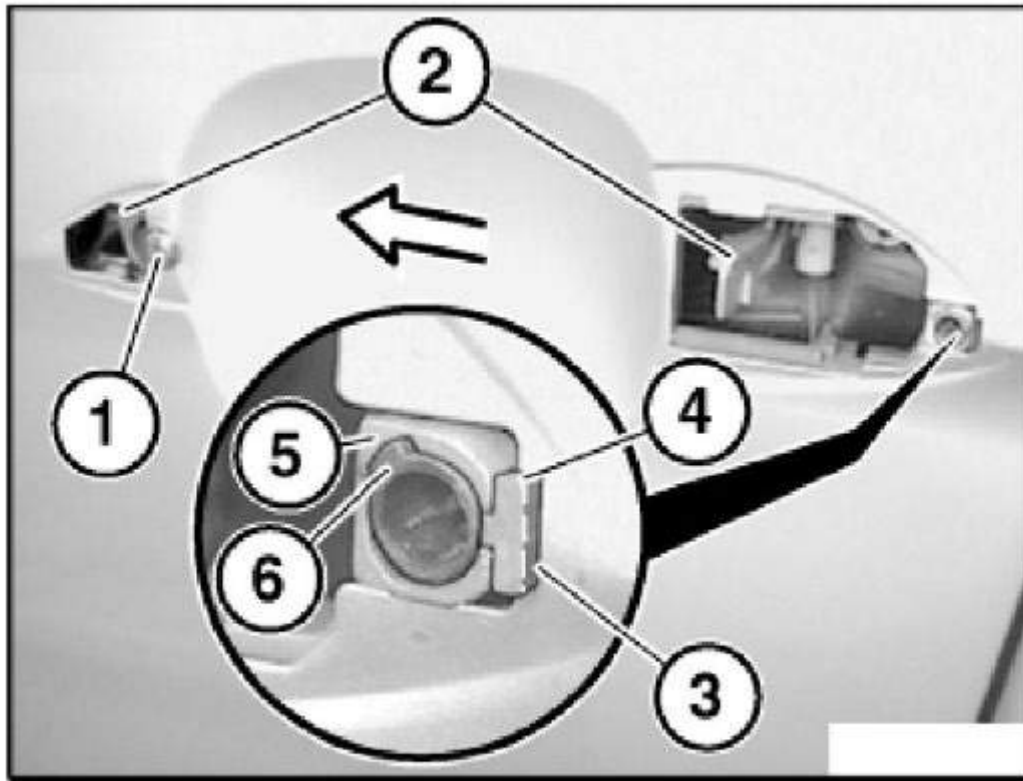


G03255787

**Fig. 217: Detaching Bowden Cable From Support**  
Courtesy of BMW OF NORTH AMERICA, INC.

Loosen bolt (1).

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



G03255788

**Fig. 218: Lifting Out Lock Actuator**

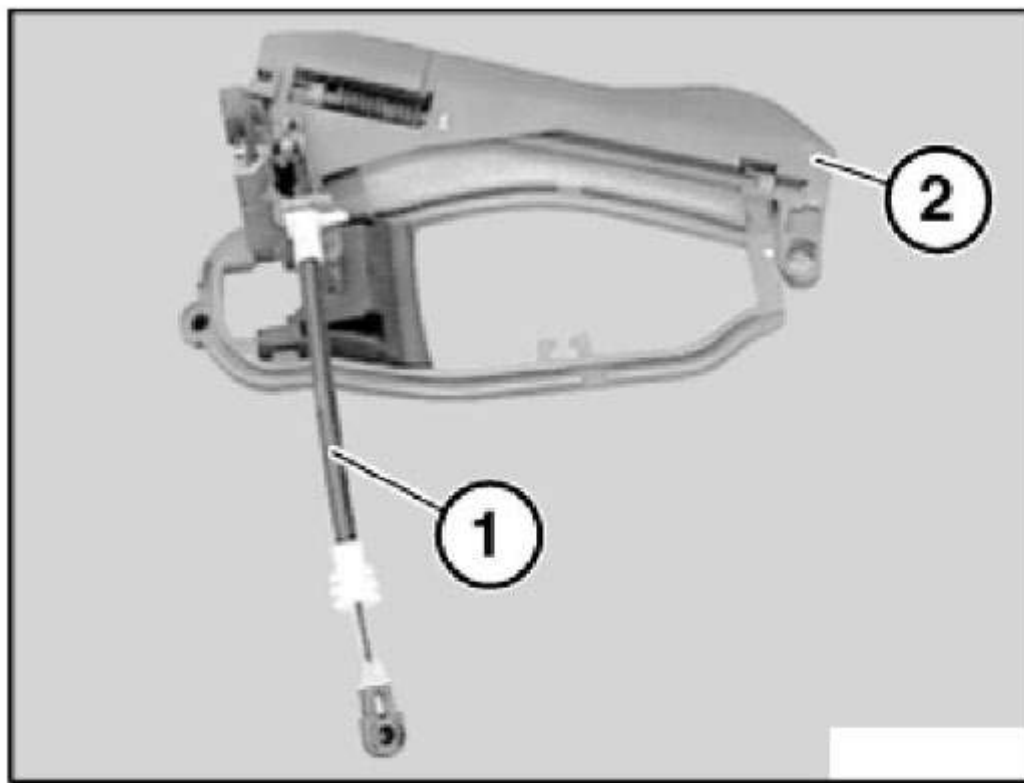
Courtesy of BMW OF NORTH AMERICA, INC.

**Installation:**

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

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

**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).



G03255789

**Fig. 219: Identifying Bowden Cable**

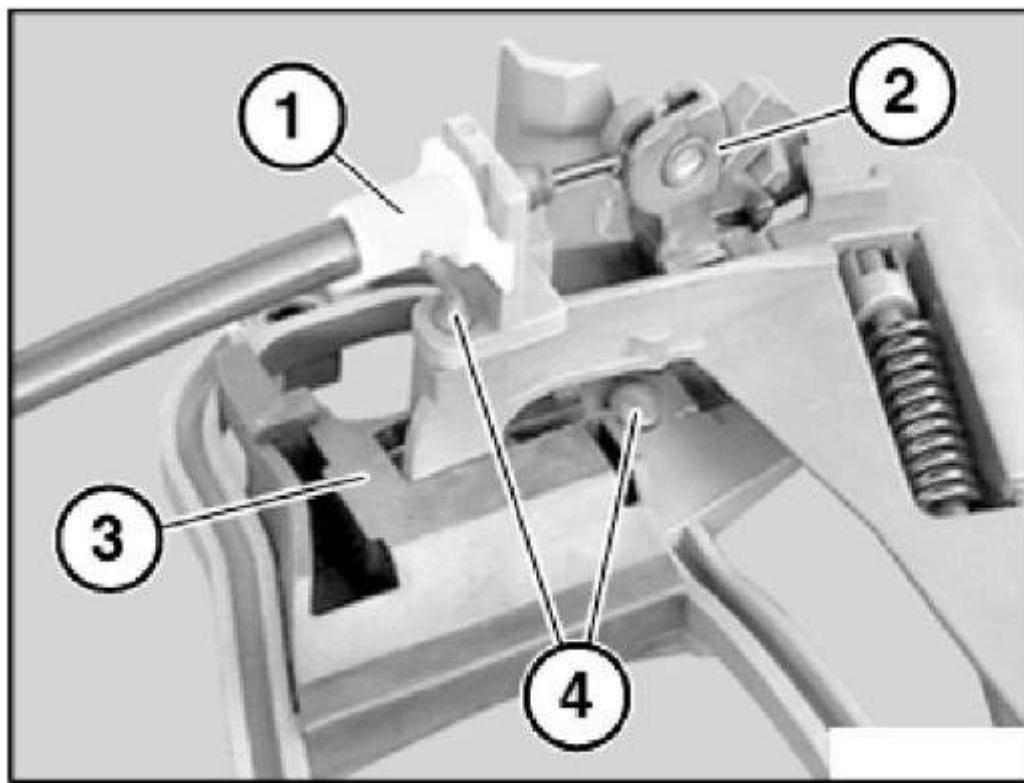
Courtesy of BMW OF NORTH AMERICA, INC.

**Installation:**

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

Seal (3) must be fitted - wind noises.

Buffers (4) must be fitted.

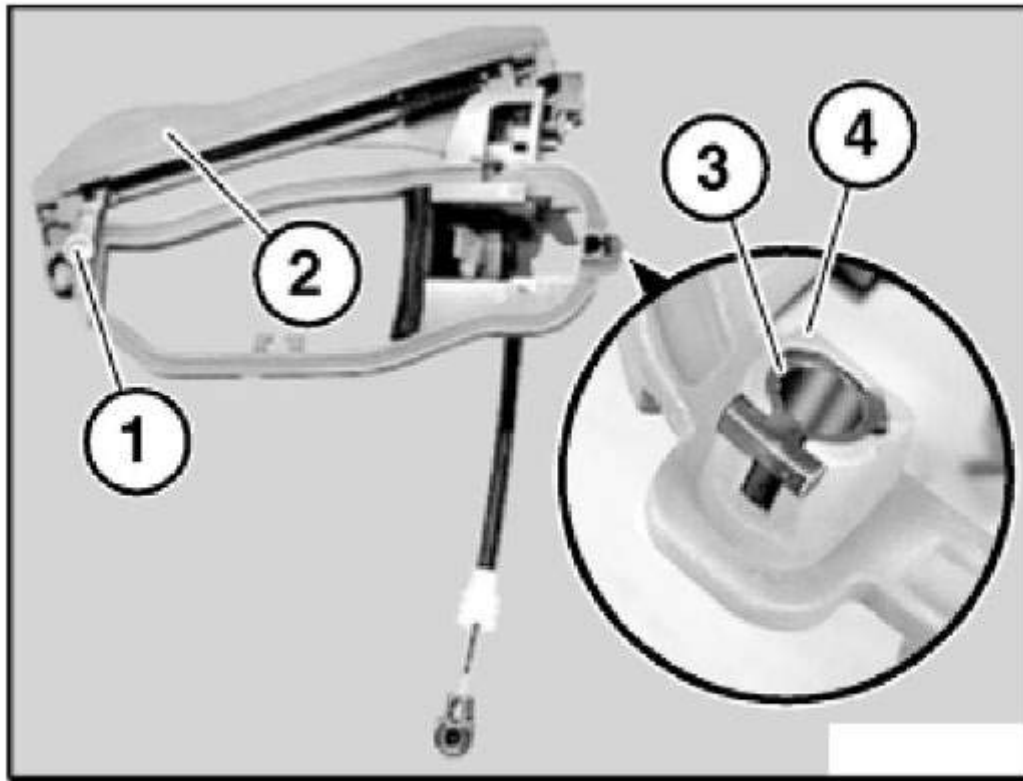


G03255790

**Fig. 220: View Of Bowden Cable With Seal And Buffers**  
Courtesy of BMW OF NORTH AMERICA, INC.

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

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



G03255791

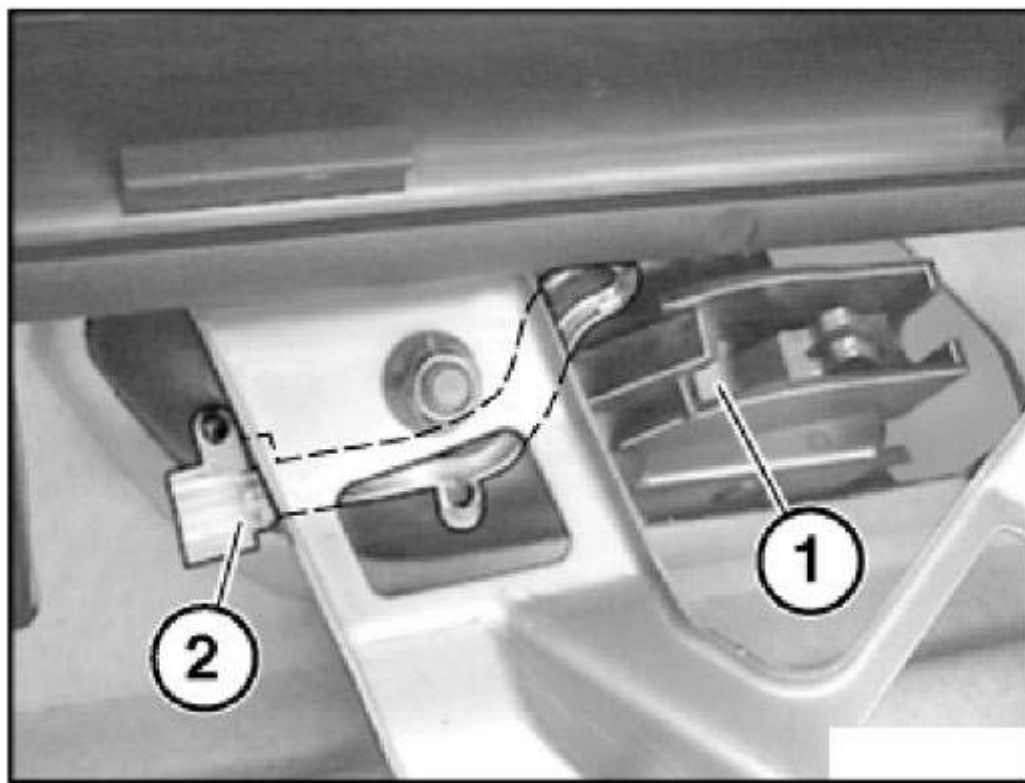
**Fig. 221: Identifying Guide And Support**  
Courtesy of BMW OF NORTH AMERICA, INC.

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

Remove front door trim panel. Refer to **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).

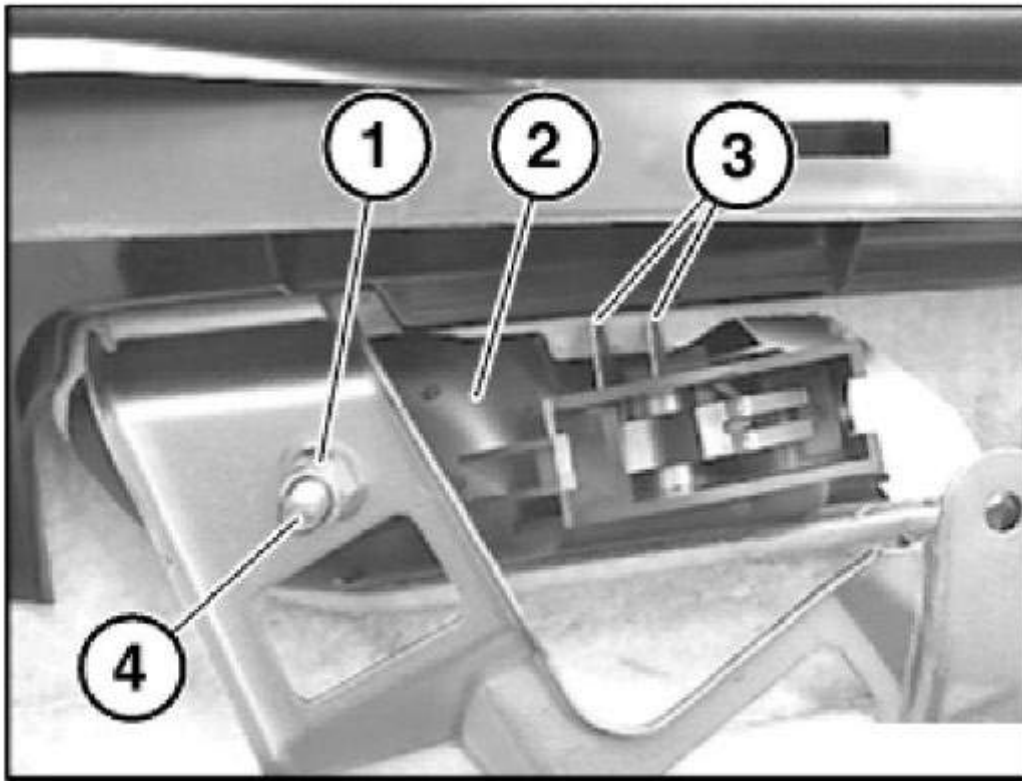


G03255792

**Fig. 222: Identifying Light Guide**

Courtesy of BMW OF NORTH AMERICA, INC.

Release nut (1).



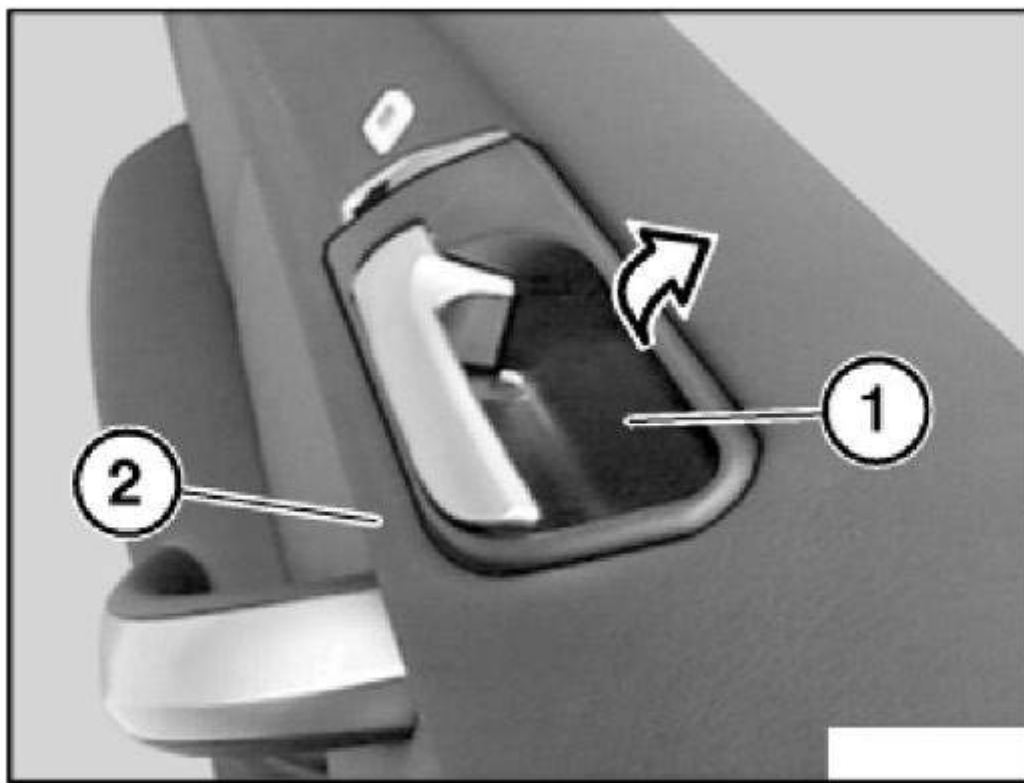
G03255793

**Fig. 223: Releasing Nut**

Courtesy of BMW OF NORTH AMERICA, INC.

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

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

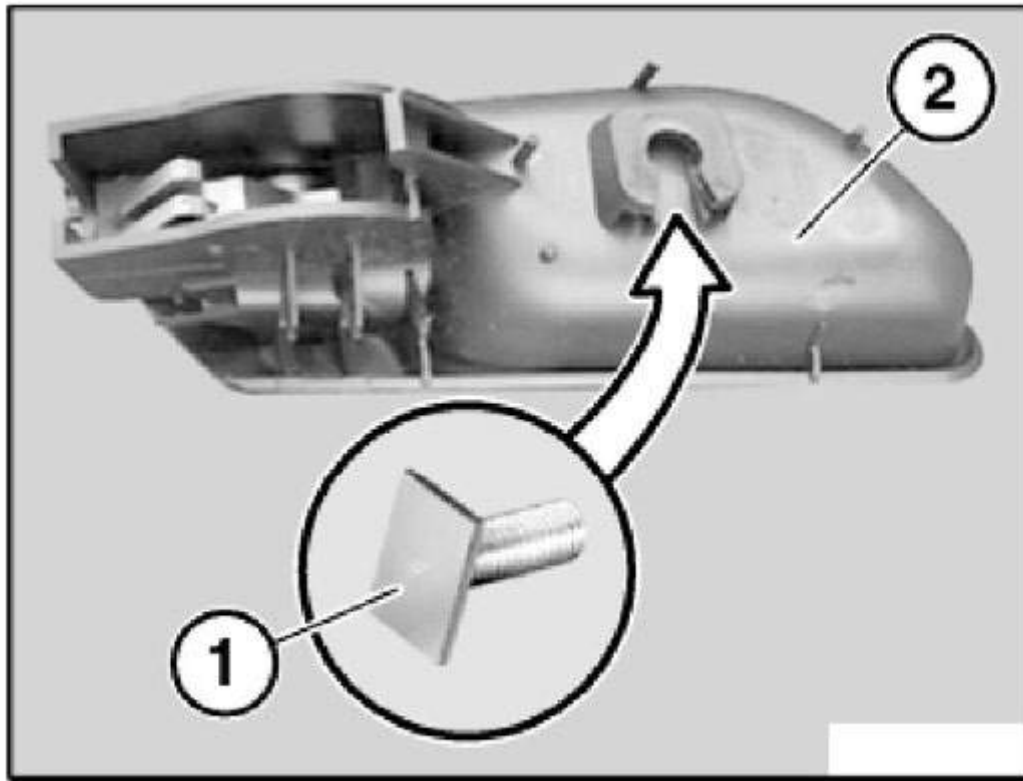


G03255794

**Fig. 224: 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.



G03255795

**Fig. 225: Identifying Mount In Door Handle For Screw**

Courtesy of BMW OF NORTH AMERICA, INC.

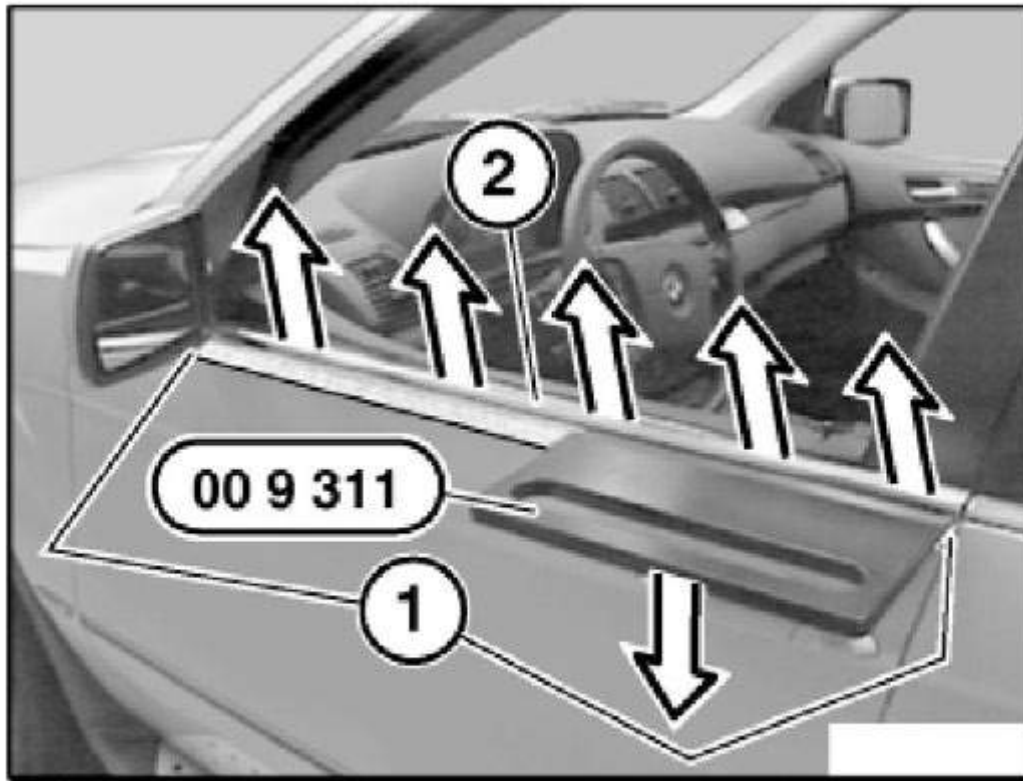
**51 21 300 REMOVING AND INSTALLING/REPLACING WINDOW CAVITY COVER STRIP ON OUTSIDE OF FRONT DOOR**

**NOTE:** For Special Tool identification, see **SPECIAL TOOLS - X5 (3.0i)** .

**Special Tools Required:**

- 00 9 311

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



G03255796

**Fig. 226: Identifying Adhesive Tape Application Area**  
Courtesy of BMW OF NORTH AMERICA, INC.

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

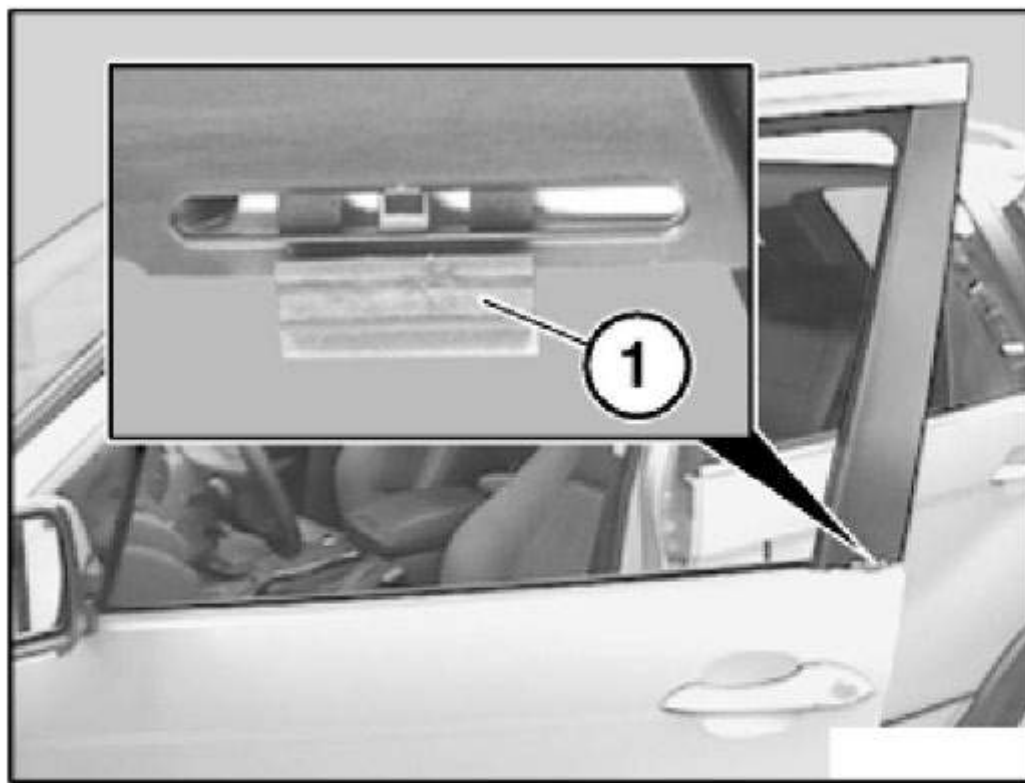
**Installation:**

For installation, coat window cavity seal (1) with turpentine substitute.

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

**Installation:**

Clip (1) must not be damaged.

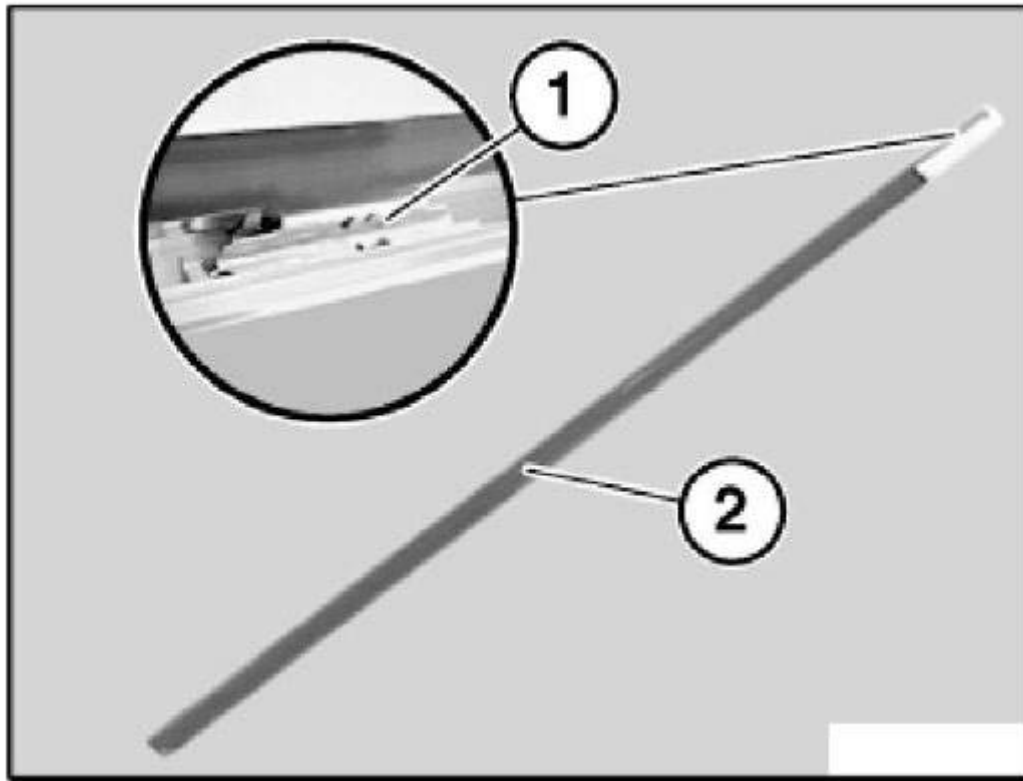


G03255797

**Fig. 227: Locating Clip For Cavity Strip**  
Courtesy of BMW OF NORTH AMERICA, INC.

**Installation:**

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



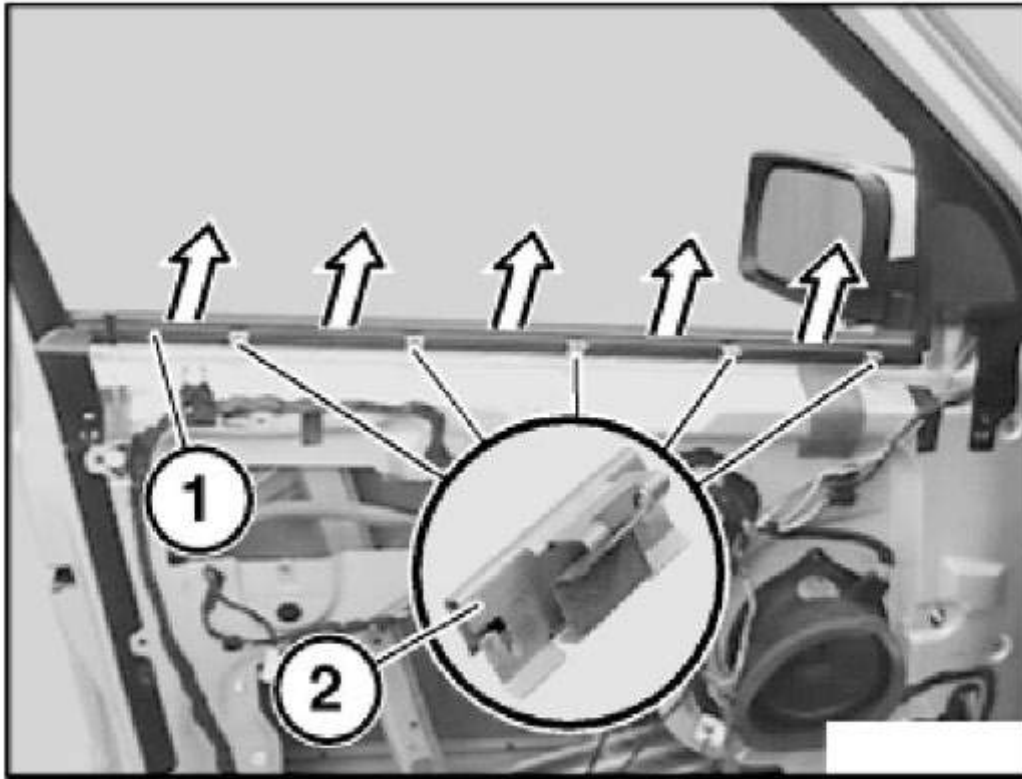
G03255798

**Fig. 228: Identifying 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**

Remove front door trim panel. Refer to **51 41 000 REMOVING AND INSTALLING LEFT OR RIGHT FRONT DOOR TRIM PANEL** .

Pull off window cavity seal (1) towards top.



G03255799

**Fig. 229: Pulling Off Window Cavity Seal**  
Courtesy of BMW OF NORTH AMERICA, INC.

**Installation:**

If necessary, replace faulty clips (2).

For installation, coat window cavity seal (1) with turpentine substitute.

**REAR DOOR LOCKS, HANDLES, FITTINGS**

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

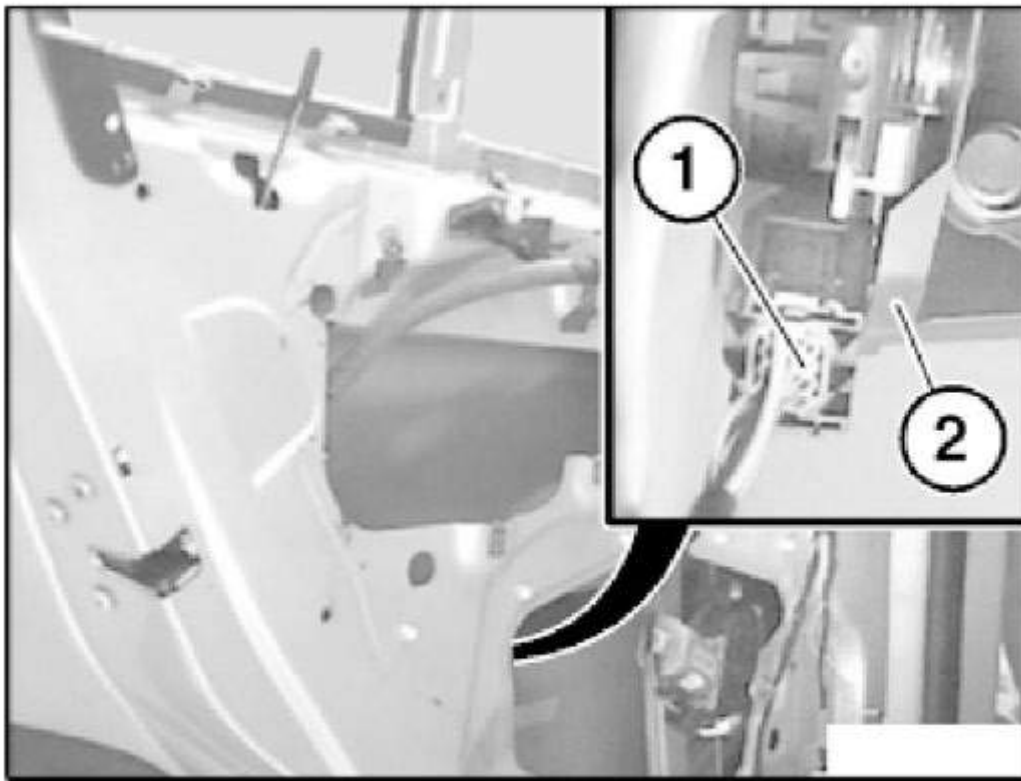
Adjust left or right rear door.

**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. Refer to **51 48 ... REMOVING AND INSTALLING/REPLACING SOUND INSULATION IN REAR DOOR, LEFT OR RIGHT** .

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

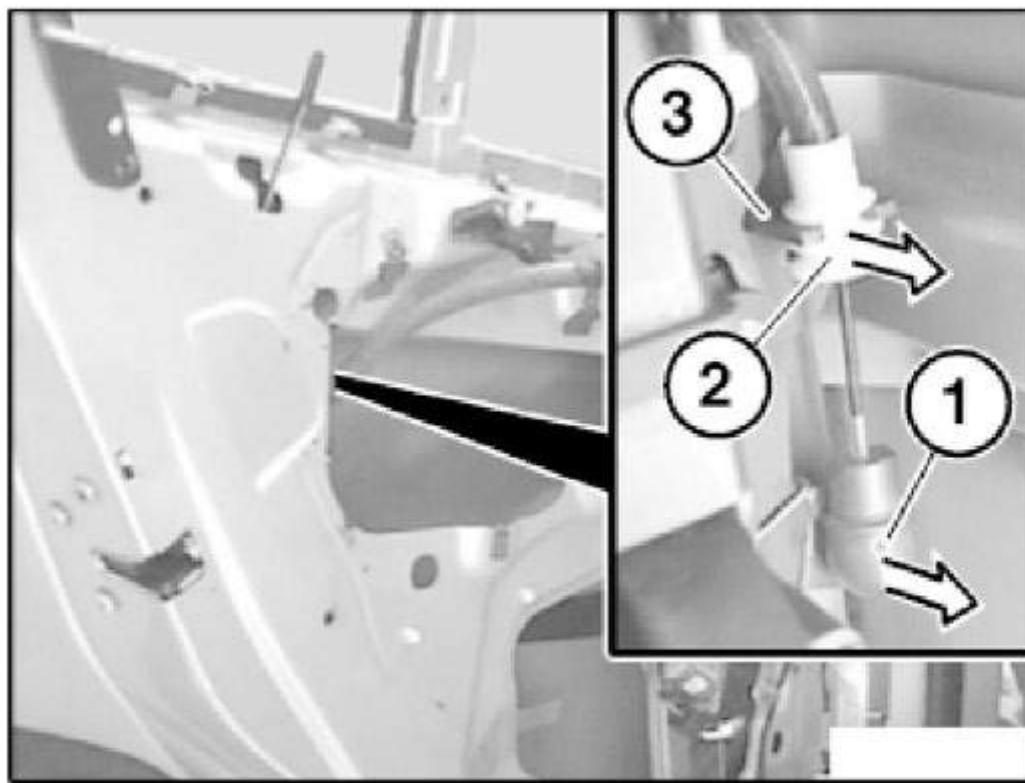


**G03255800**

**Fig. 230: 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.

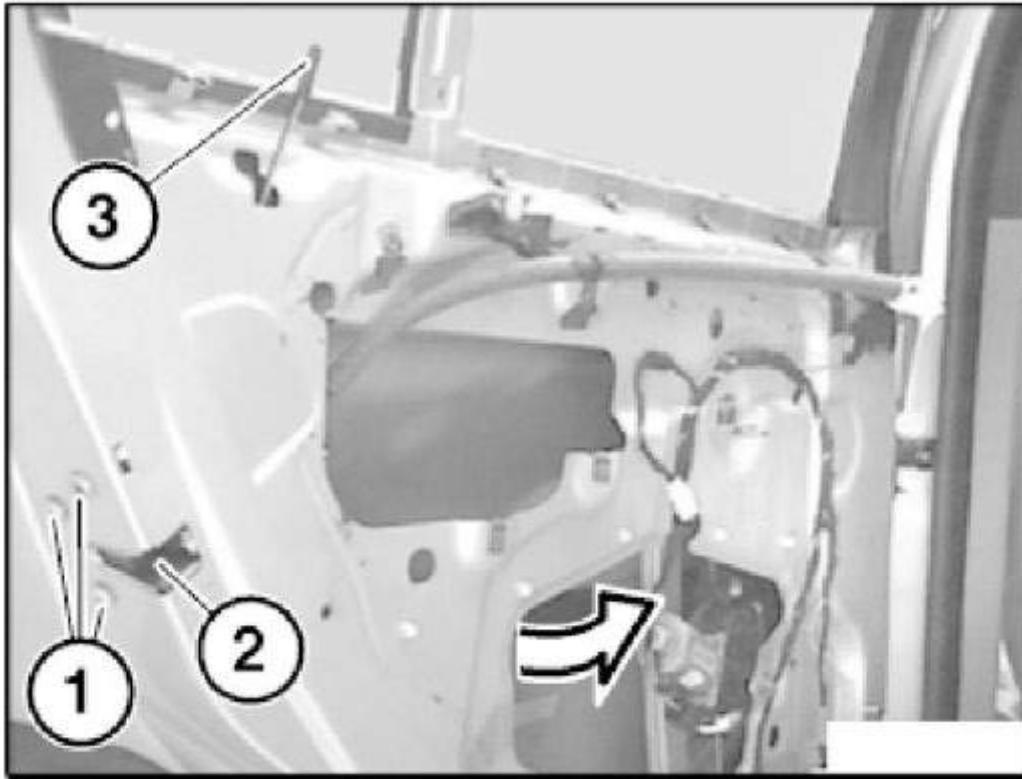


G03255801

**Fig. 231: Detaching Bowden Cable From Support**  
Courtesy of BMW OF NORTH AMERICA, INC.

Release screws (1).

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



G03255802

**Fig. 232: Removing Door Lock With Linkage**  
Courtesy of BMW OF NORTH AMERICA, INC.

**Installation:**

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

Do not bend linkage (3).

Replace screws (1).

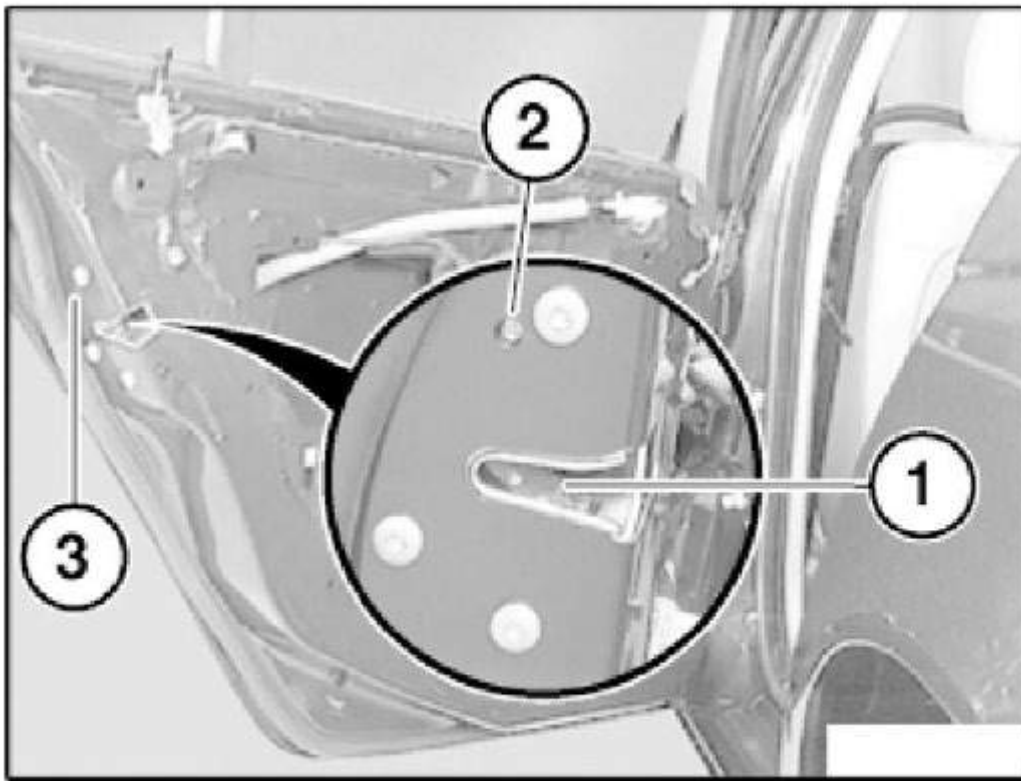
Tightening torque, (9 N.m.).

**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.



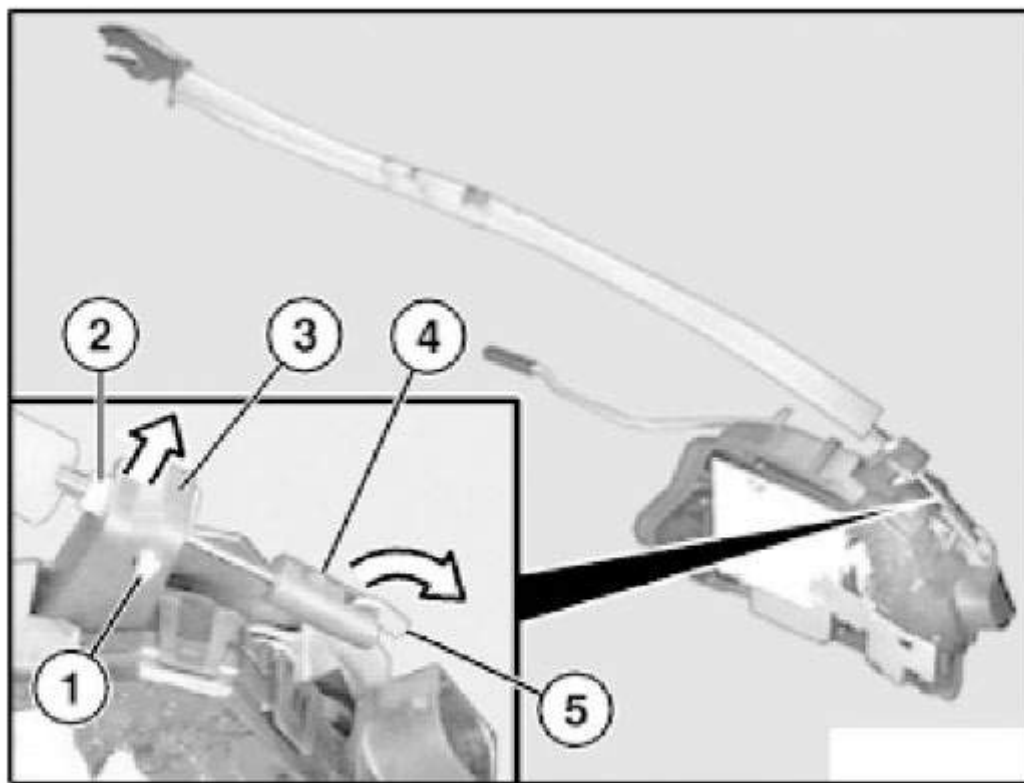
G03255803

**Fig. 233: Identifying Rotary Latch Lock**  
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).



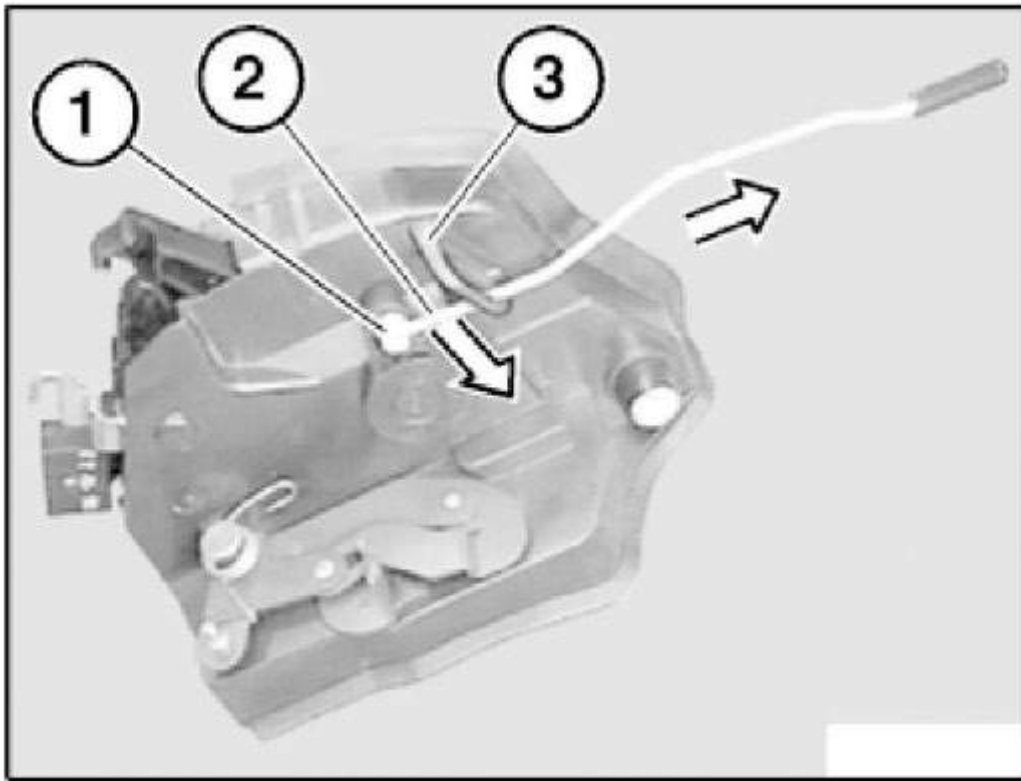
G03255804

**Fig. 234: Lifting Out Lock And Detaching Bowden Cable**  
Courtesy of BMW OF NORTH AMERICA, INC.

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

**Only Replacement:**

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



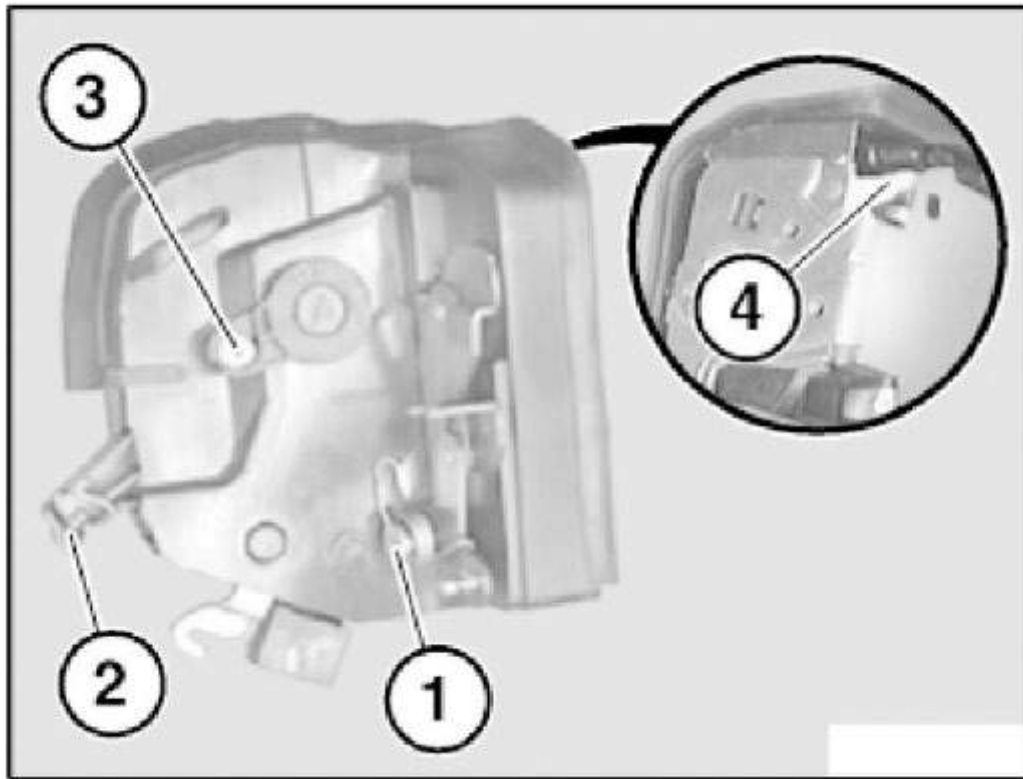
G03255805

**Fig. 235: Unclipping 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.



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

G03255806

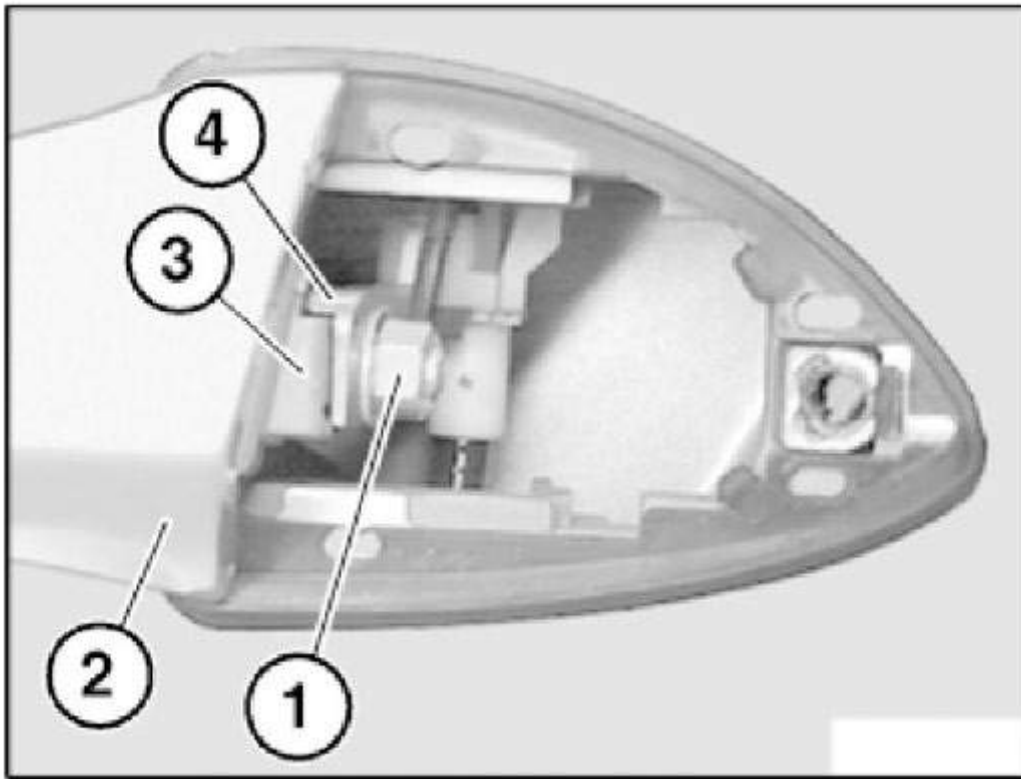
**Fig. 236: Identifying Door Lock Components**  
Courtesy of BMW OF NORTH AMERICA, INC.

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

Remove cover on outside handle. Refer to **51 22 180 REMOVING AND INSTALLING/REPLACING COVER ON OUTSIDE HANDLE, LEFT OR RIGHT**.

**Removal:**

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



G03255807

**Fig. 237: Locating Nut On Outside Handle**  
Courtesy of BMW OF NORTH AMERICA, INC.

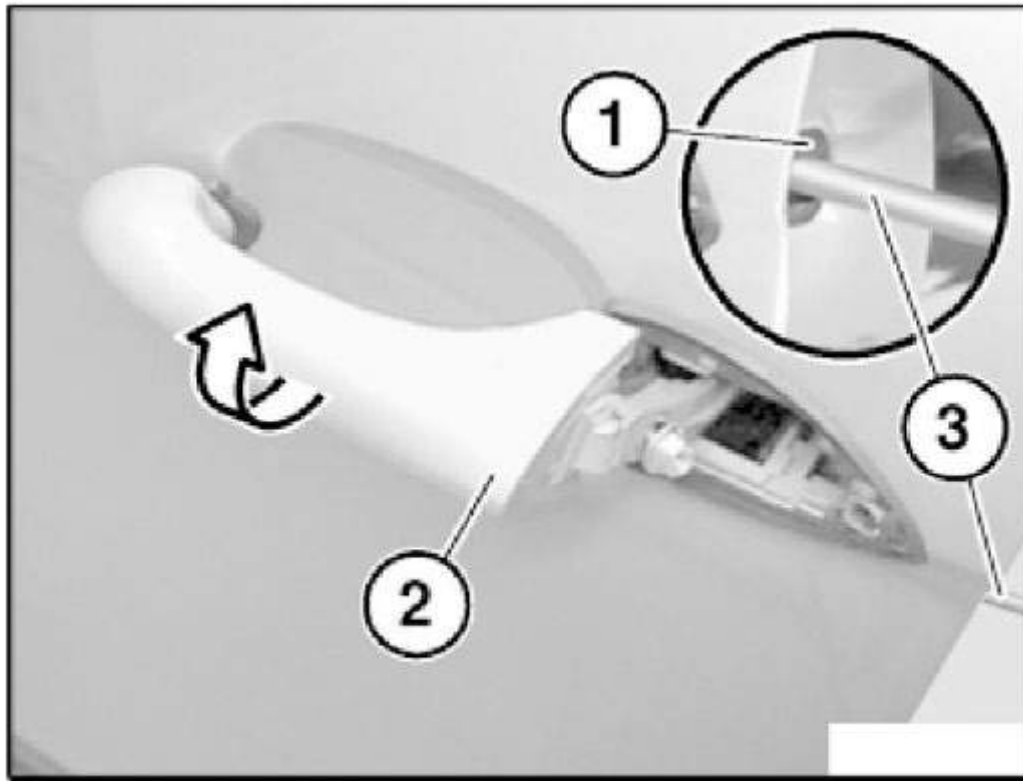
**Installation:**

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

Tightening torque, (3.2 N.m.).

**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).

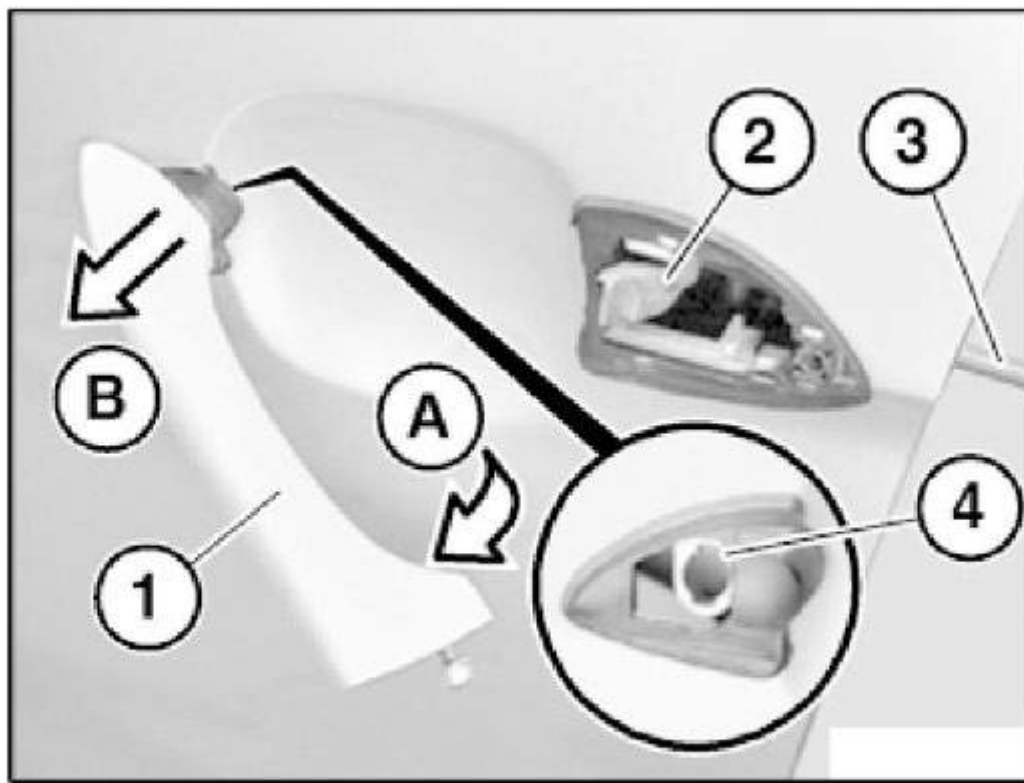


G03255808

**Fig. 238: Pulling And Securing Outside Handle Outwards/Upwards**  
Courtesy of BMW OF NORTH AMERICA, INC.

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

- 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).



G03255809

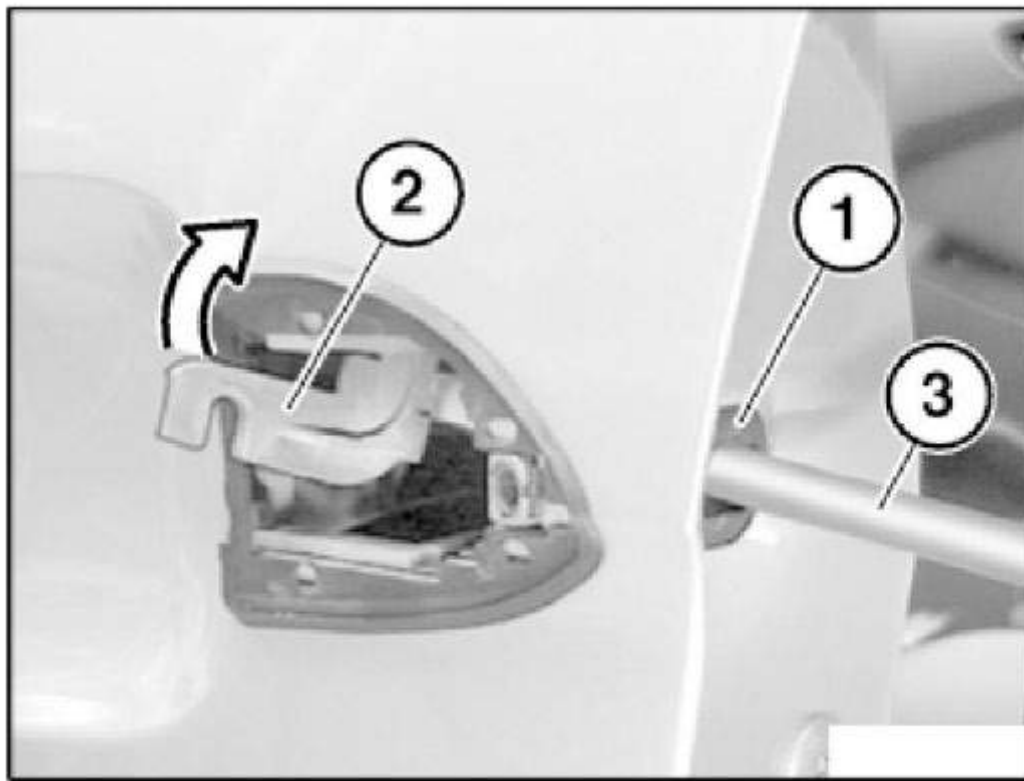
**Fig. 239: Removing Outside Handle**

Courtesy of BMW OF NORTH AMERICA, INC.

**Installation:**

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

Press lock actuator (2) with a screwdriver (3) fully into "Open" setting.



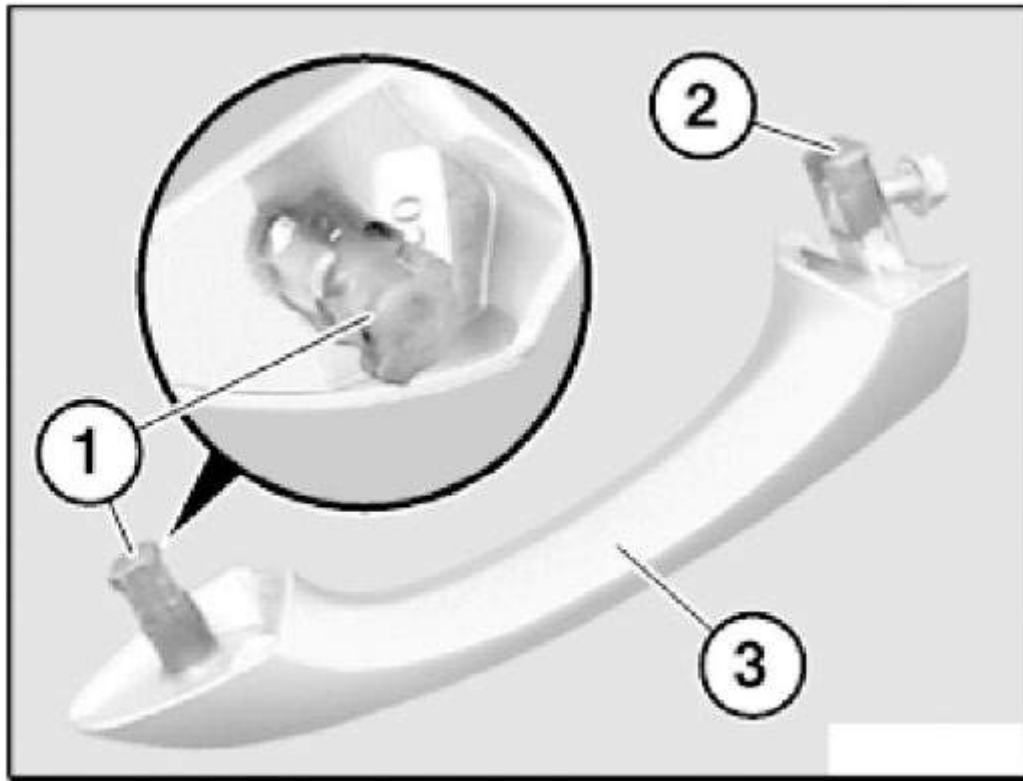
G03255810

**Fig. 240: Pressing Lock Actuator With A Screwdriver**  
Courtesy of BMW OF NORTH AMERICA, INC.

Mount outside handle in this position.

**Installation:**

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

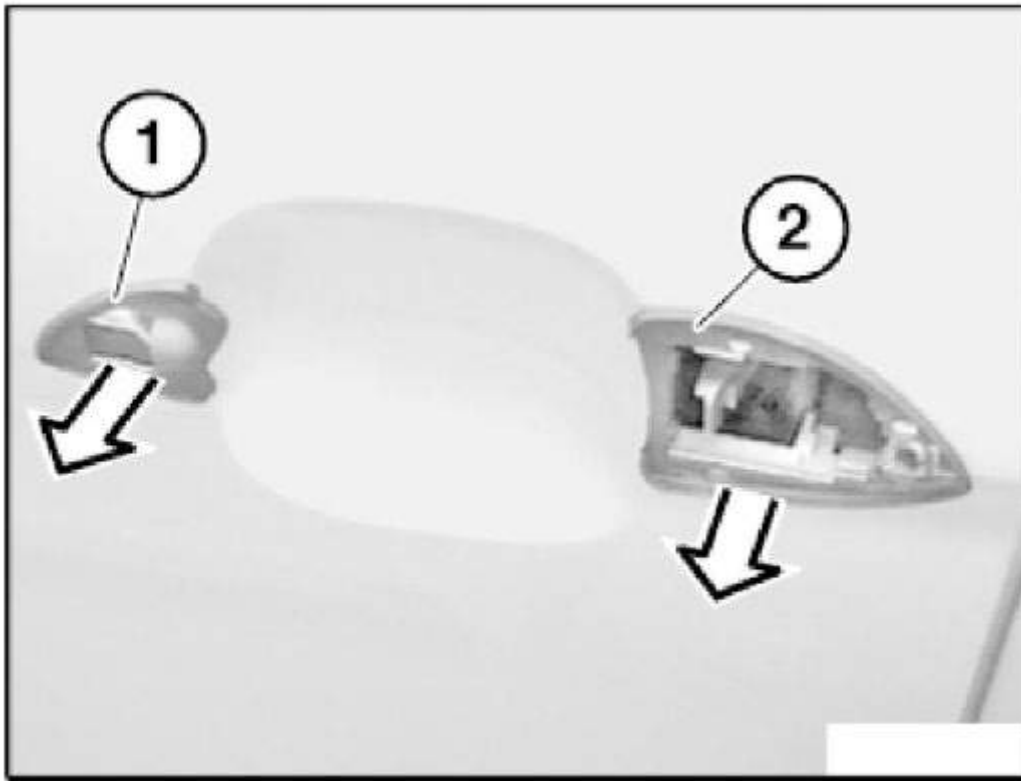


G03255811

**Fig. 241: Identifying Supports On Outside Handle**  
Courtesy of BMW OF NORTH AMERICA, INC.

**Installation:**

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



G03255812

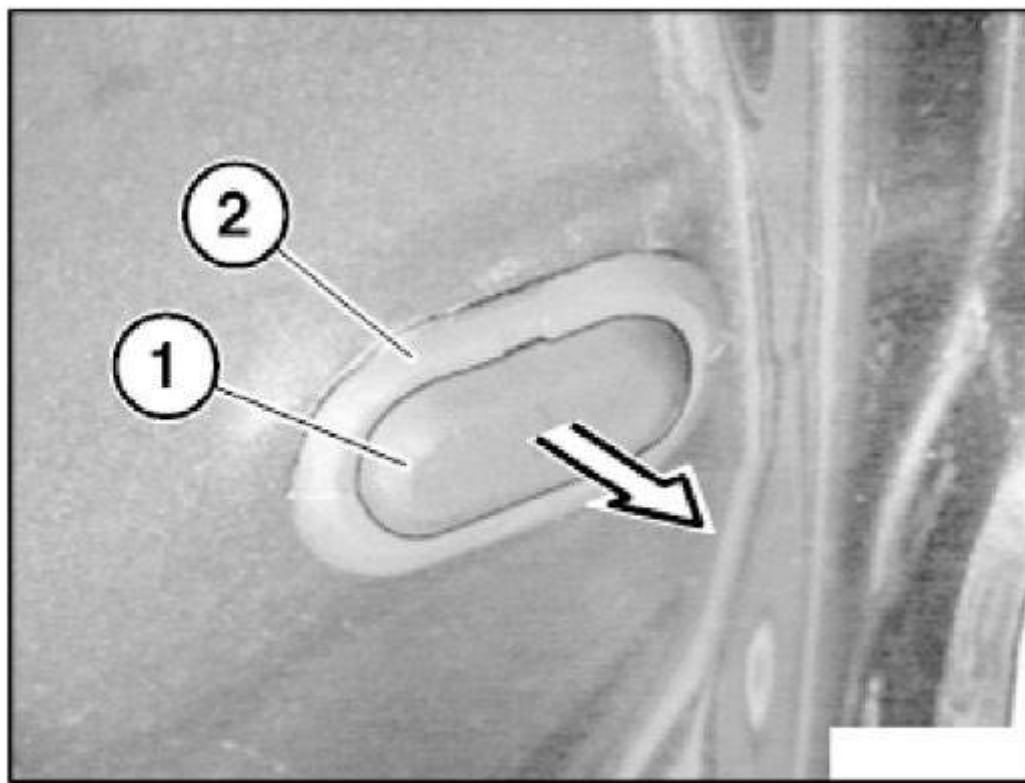
**Fig. 242: Locating Seals For Outside Handle**  
Courtesy of BMW OF NORTH AMERICA, INC.

**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).



G03255813

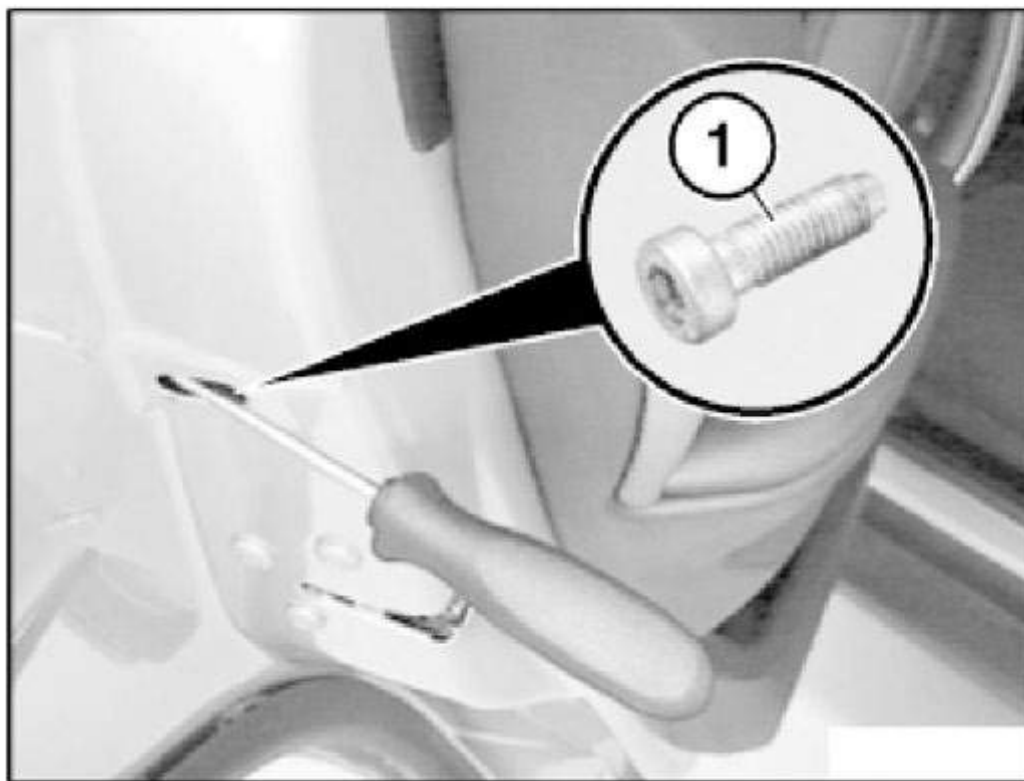
**Fig. 243: Levering Out Trim And Trim Frame**  
Courtesy of BMW OF NORTH AMERICA, INC.

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

**Installation:**

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

Release screw (1).

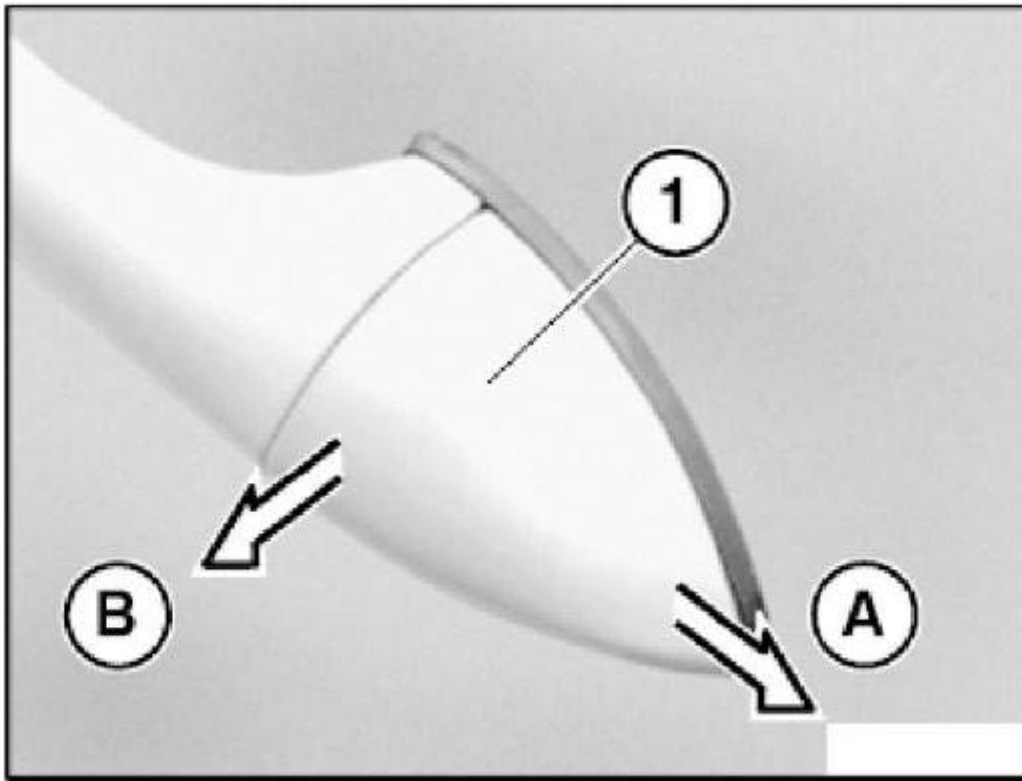


G03255814

**Fig. 244: Releasing Outside Handle Screw**  
Courtesy of BMW OF NORTH AMERICA, INC.

Removing cover (1) on outside handle:

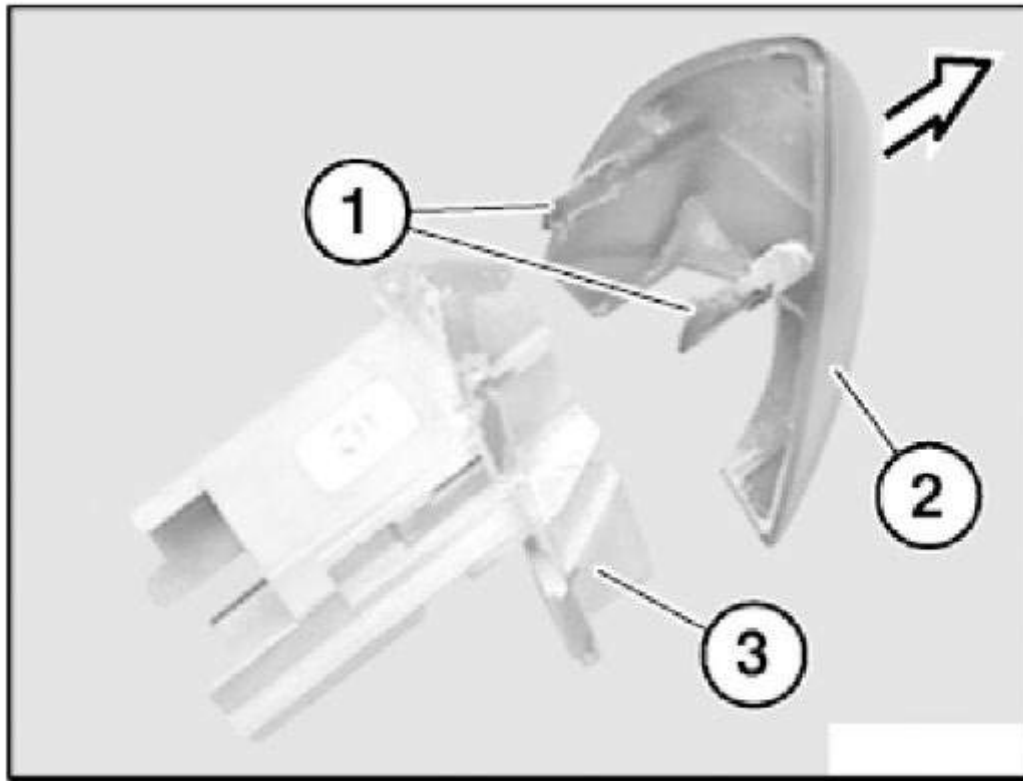
- A. Pull cover (1) approx. 1 - 2 mm towards rear.
- B. Take off cover (1).



G03255815

**Fig. 245: Removing Cover On Outside Handle**  
Courtesy of BMW OF NORTH AMERICA, INC.

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



G03255816

**Fig. 246: Levering Out Catches And Detaching Cover From Filler Element**  
Courtesy of BMW OF NORTH AMERICA, INC.

**Installation:**

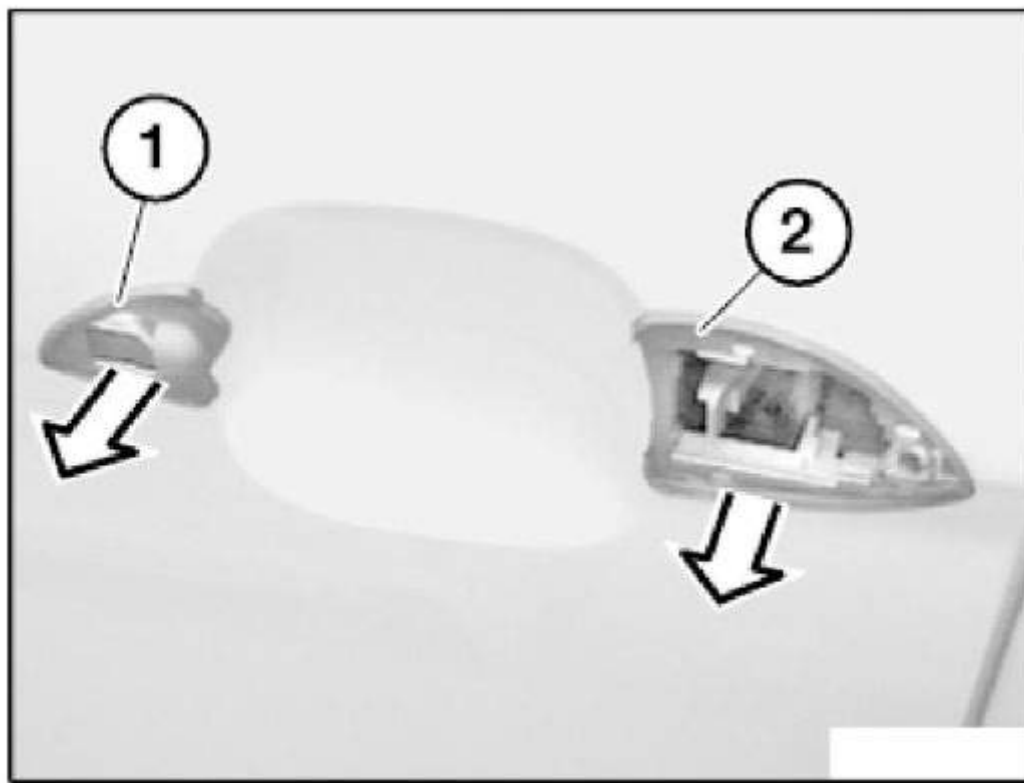
Catches (1) on cover (2) must not be damaged.

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

Remove sound insulation on rear door. Refer to **51 48 ... REMOVING AND INSTALLING/REPLACING SOUND INSULATION IN REAR DOOR, LEFT OR RIGHT** .

Remove outside handle on rear door. Refer to **51 22 170 REMOVING AND INSTALLING/REPLACING OUTSIDE HANDLE ON LEFT OR RIGHT BACK DOOR** .

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

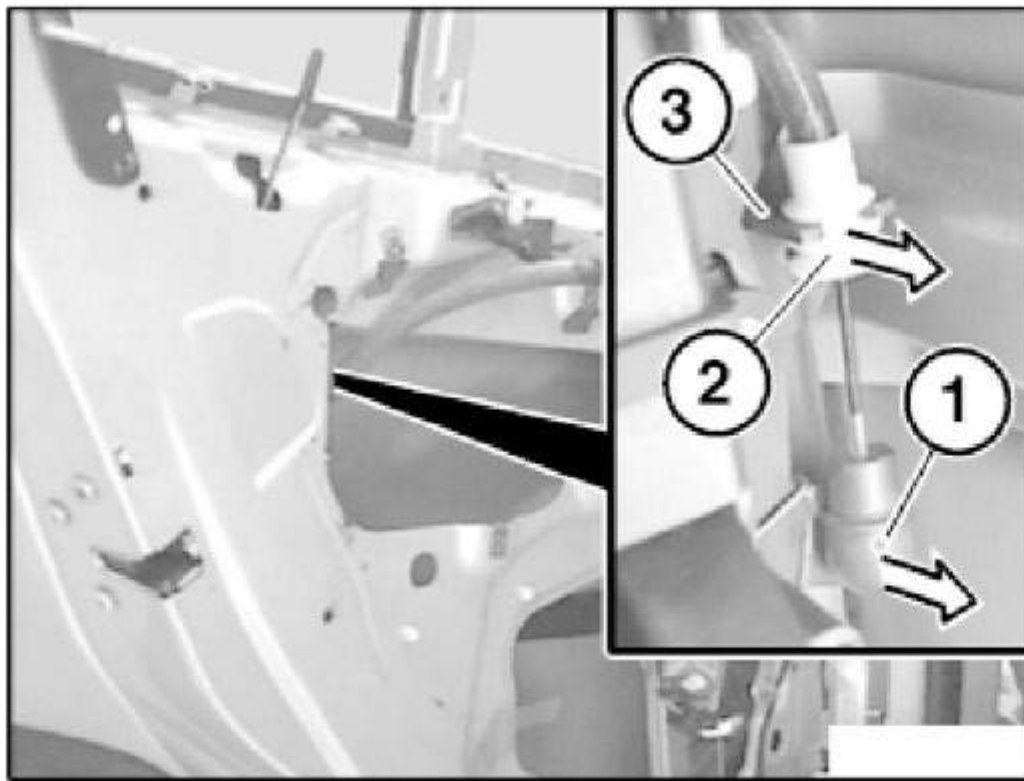


G03255817

**Fig. 247: Removing Seals For Outside Handle**  
Courtesy of BMW OF NORTH AMERICA, INC.

Unclip ball head (1).

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

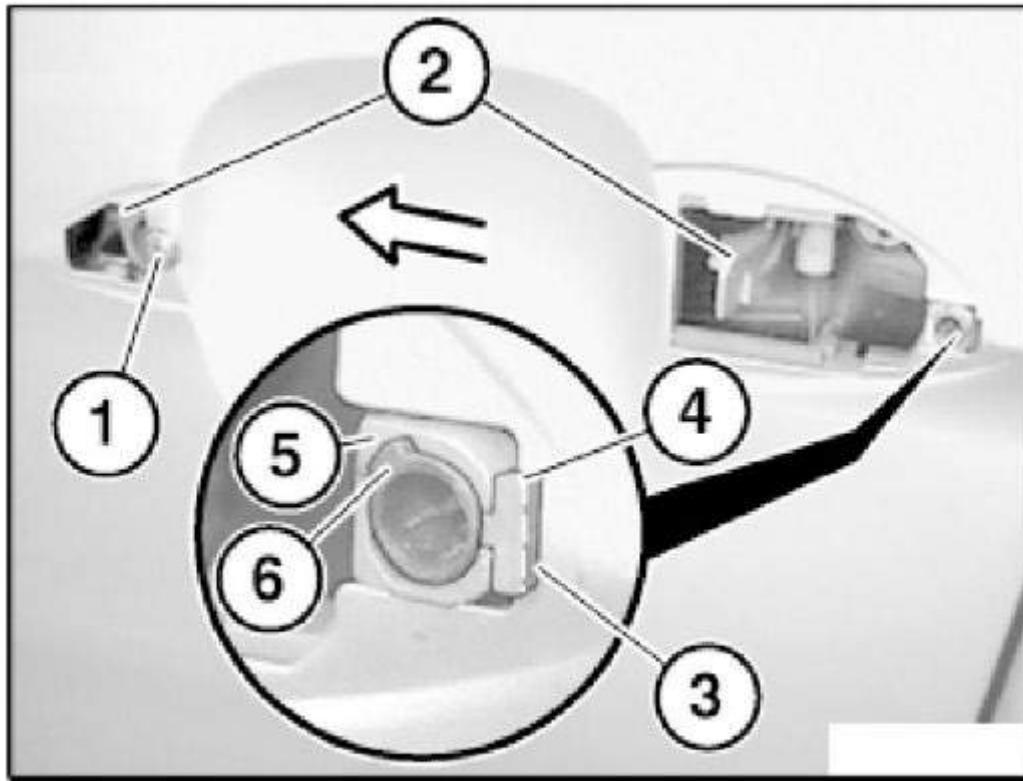


G03255818

**Fig. 248: Detaching Bowden Cable 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.



G03255819

**Fig. 249: Lifting Out Lock Actuator**

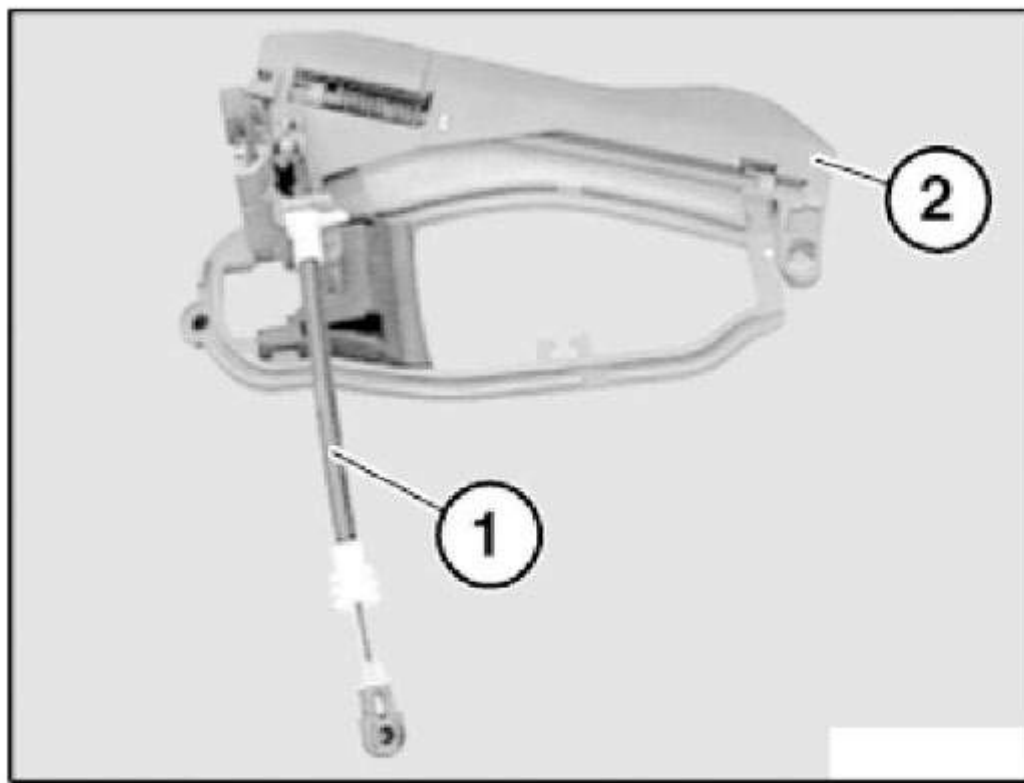
Courtesy of BMW OF NORTH AMERICA, INC.

**Installation:**

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

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

**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).



G03255820

**Fig. 250: Identifying Bowden Cable**

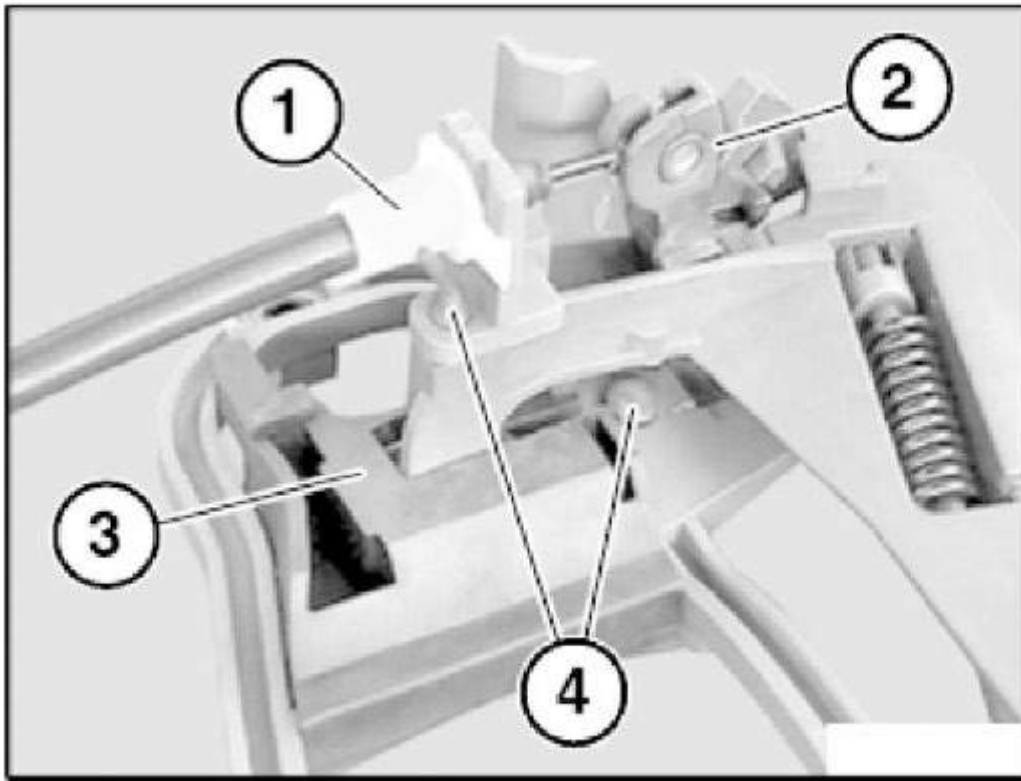
Courtesy of BMW OF NORTH AMERICA, INC.

**Installation:**

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

Seal (3) must be fitted - wind noises.

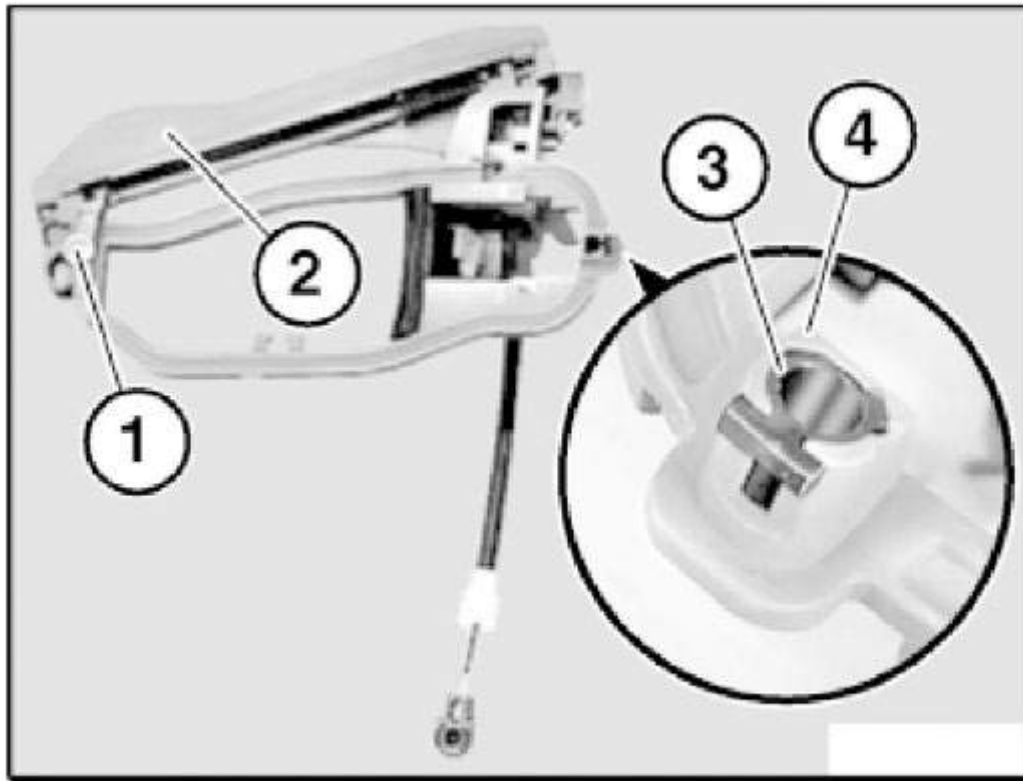
Buffers (4) must be fitted.



G03255821

**Fig. 251: View Of Bowden Cable With Seal And Buffers**  
Courtesy of BMW OF NORTH AMERICA, INC.

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



G03255822

**Fig. 252: Replacing Screw On Lock Actuator**  
Courtesy of BMW OF NORTH AMERICA, INC.

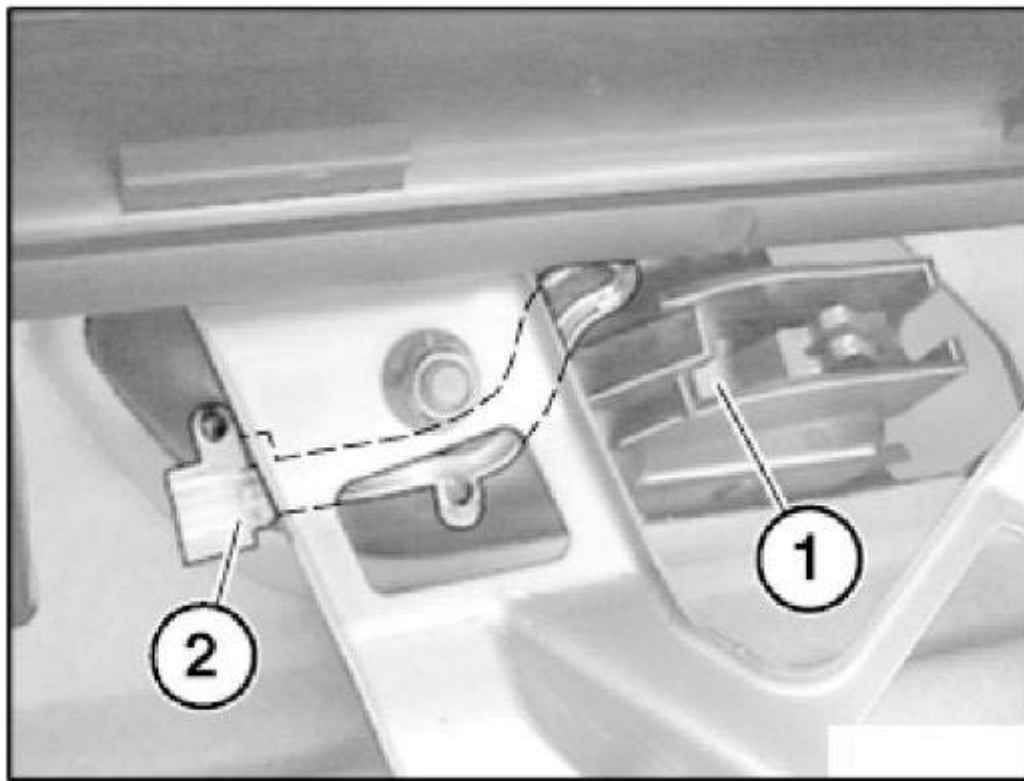
Guide (3) must be flush with support (4).

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

Remove rear door trim panel. Refer to **51 42 000 REMOVING AND INSTALLING REAR LEFT OR RIGHT DOOR TRIM PANEL** .

**Version With Lighting For Door Handle:**

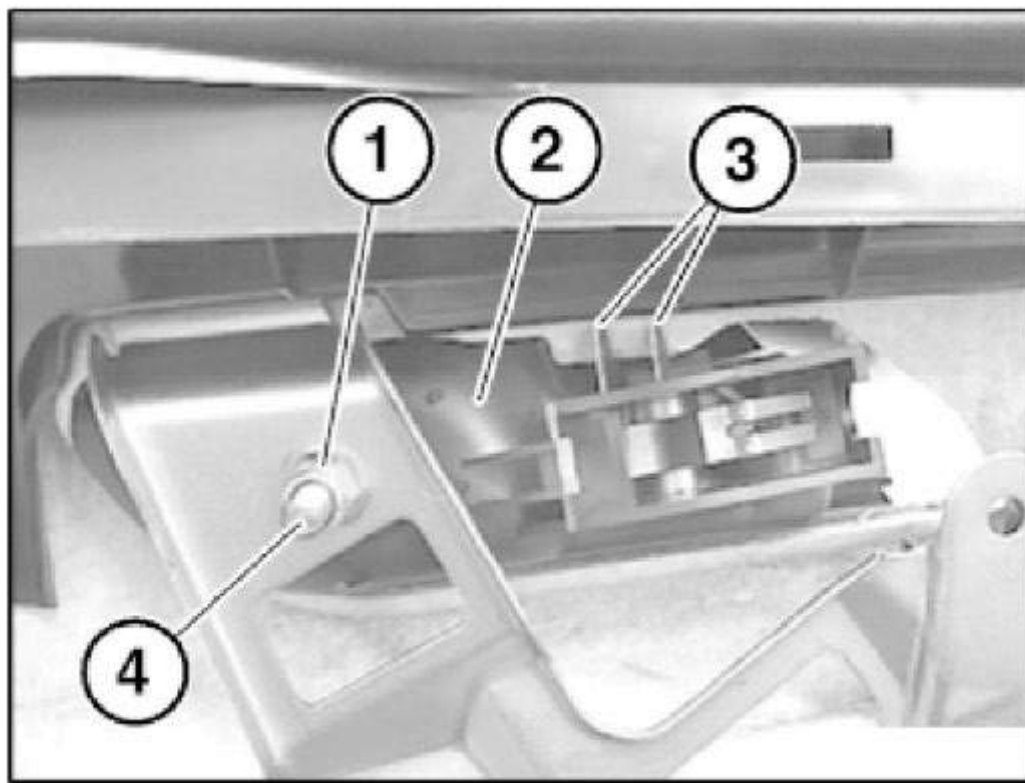
**CAUTION:** Do not damage light guide (2) when removing door handle (1).



G03255823

**Fig. 253: Locating Light Guide**  
Courtesy of BMW OF NORTH AMERICA, INC.

Slacken nut (1).



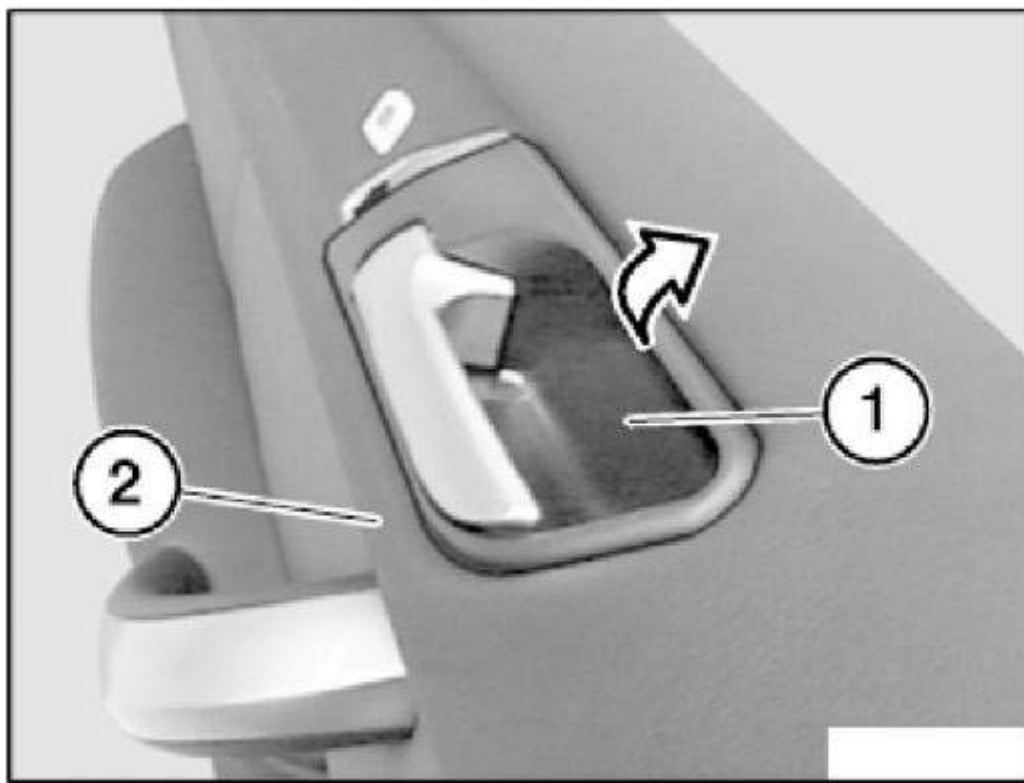
G03255824

**Fig. 254: Slackening Nut On Door Handle**  
Courtesy of BMW OF NORTH AMERICA, INC.

**NOTE:** Guides (3) on door handle (2) must not be damaged.

Move screw (4) slightly into guide of door handle during removal.

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

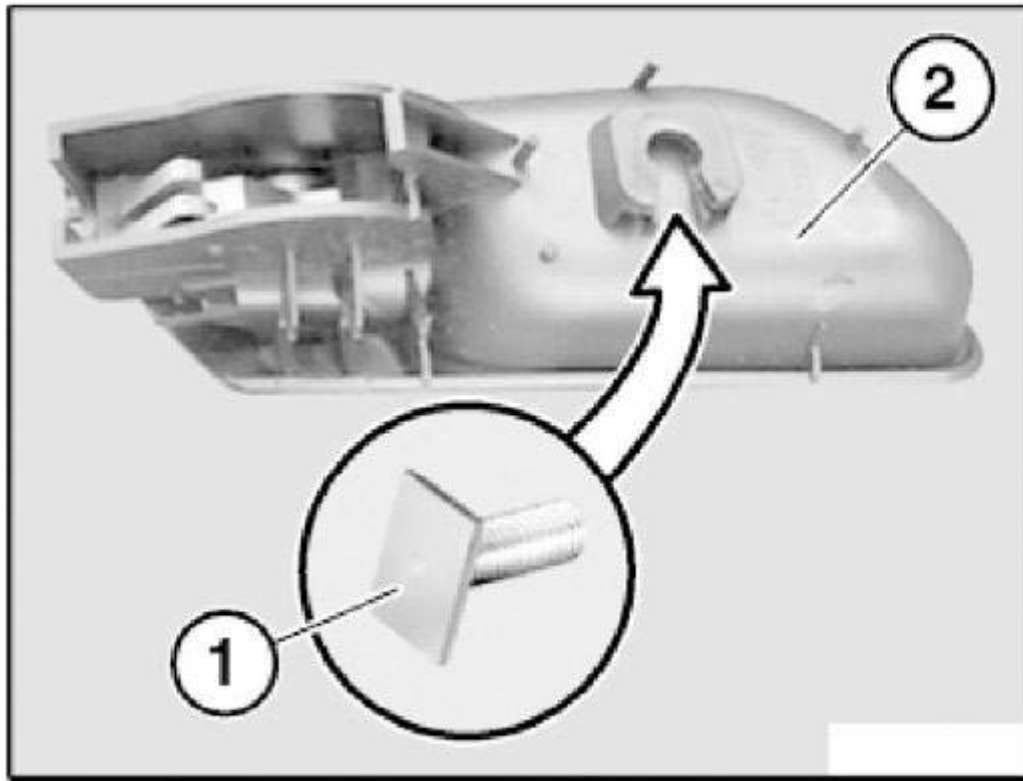


G03255825

**Fig. 255: Twisting Inside Door Handle Upwards/Inwards Out Of Panel**  
Courtesy of BMW OF NORTH AMERICA, INC.

**Installation:**

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



G03255826

**Fig. 256: View Of Mount In Door Handle For Screw**  
Courtesy of BMW OF NORTH AMERICA, INC.

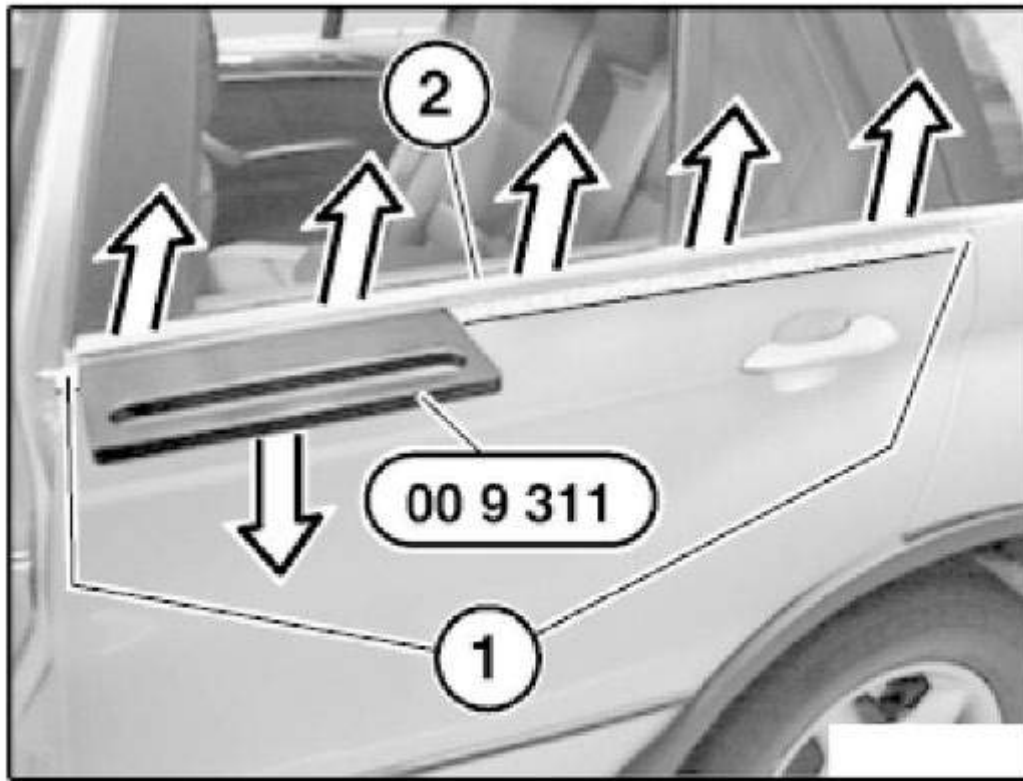
**51 22 300 REMOVING AND INSTALLING/REPLACING WINDOW CAVITY COVER STRIP ON REAR DOOR ON LEFT OR RIGHT**

**NOTE:** For Special Tool identification, see **SPECIAL TOOLS - X5 (3.0i) .**

**Special Tools Required:**

- 00 9 311

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



G03255827

**Fig. 257: Identifying Areas For Adhesive Tape**  
 Courtesy of BMW OF NORTH AMERICA, INC.

Using special tool 009311 (beginning at front proceeding to rear), lever out window cavity cover strip (1).

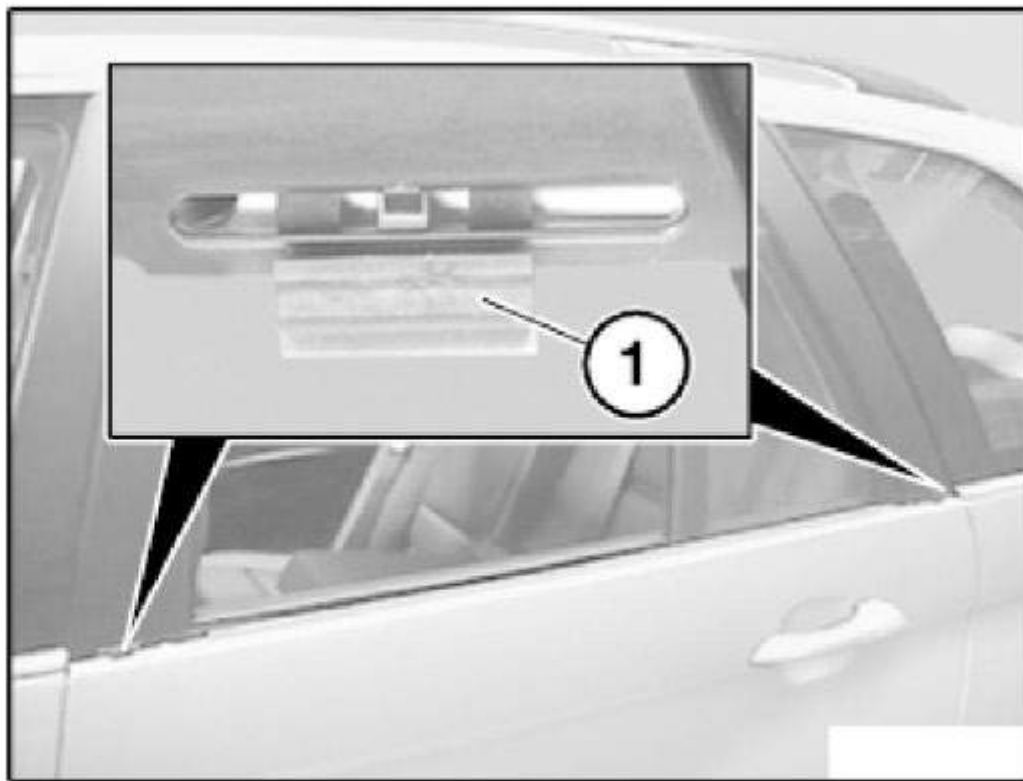
**Installation:**

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.

**Installation:**

Clips (1) must not be damaged.

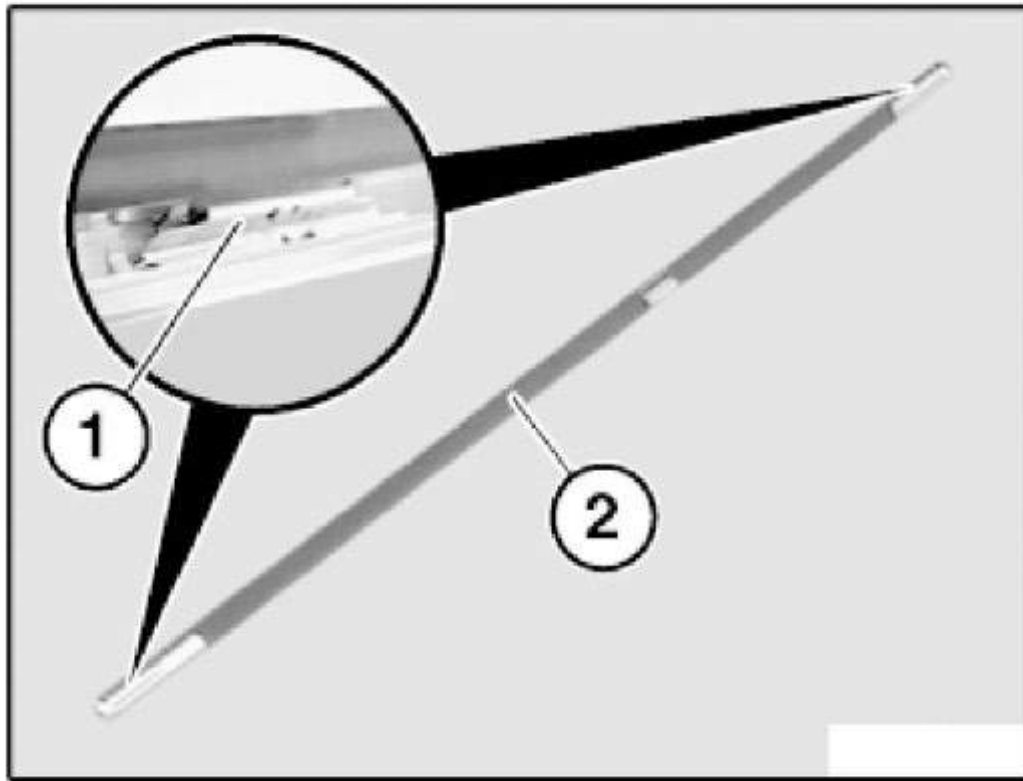


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**Fig. 258: Identifying Window Cavity Cover Strip Clips**  
Courtesy of BMW OF NORTH AMERICA, INC.

**Installation:**

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



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**Fig. 259: Locating 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**

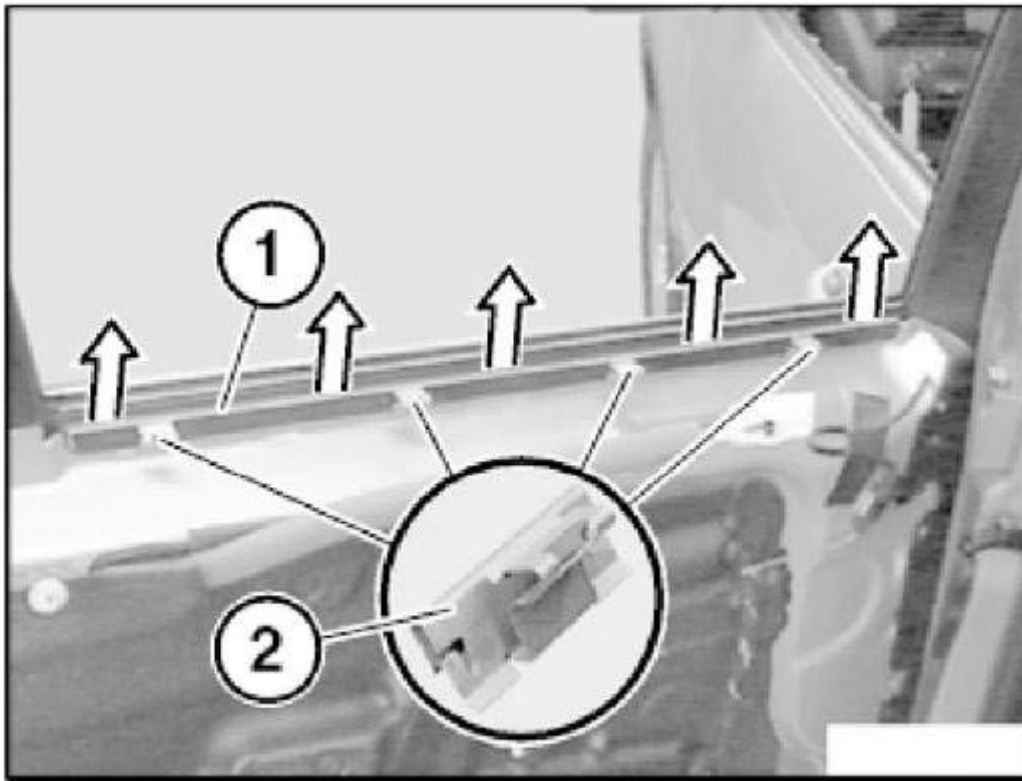
### **Necessary Preliminary Tasks:**

- Remove rear door trim panel. Refer to **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. 260: Identifying Retainer**

Courtesy of BMW OF NORTH AMERICA, INC.

## HOOD LATCH, LOCKS

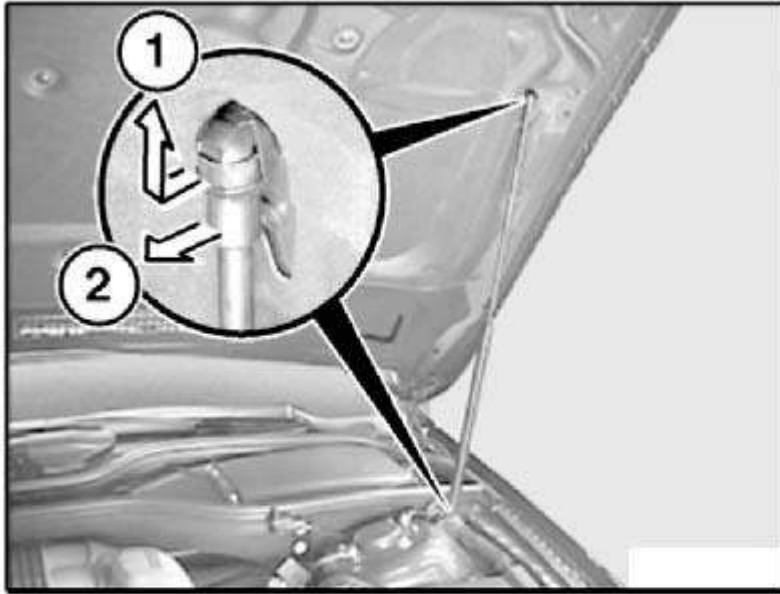
### 51 23 265 REMOVING AND INSTALLING/REPLACING LEFT OR RIGHT GAS STRUT FOR ENGINE BONNET/HOOD

**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.



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

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**Fig. 261: Identifying Retainer Spring And Strut**  
Courtesy of BMW OF NORTH AMERICA, INC.

## **TRUNK LATCH, LOCKS**

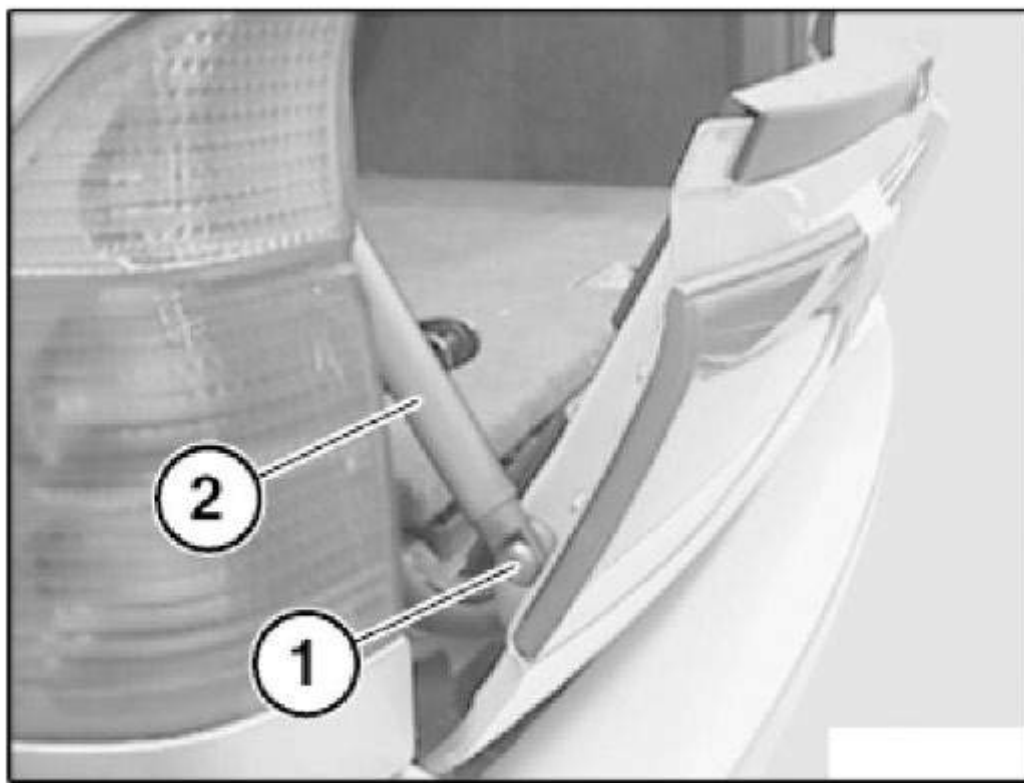
### **51 24... REMOVING AND INSTALLING/REPLACING BOTTOM LEFT OR RIGHT LOCK SUPPORT FOR REAR LID**

#### **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).

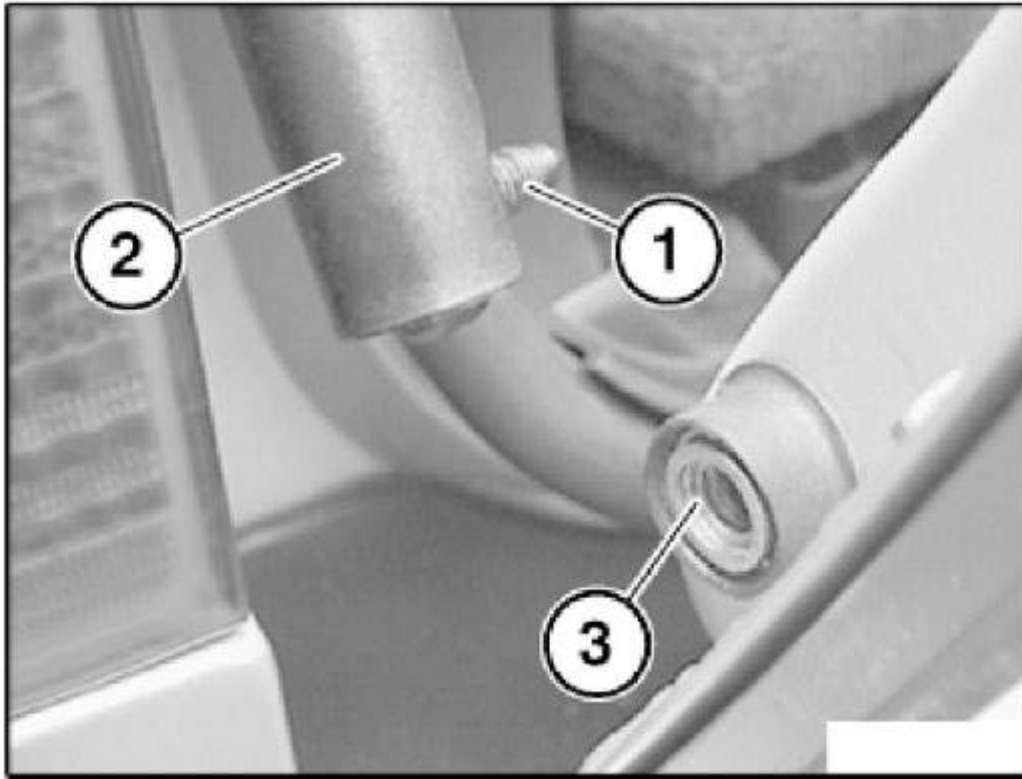
**CAUTION:** If the second support (2) is released for removal of the rear lid, the rear bumper must be protected against damage.



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**Fig. 262: Opening Rear Lid**  
Courtesy of BMW OF NORTH AMERICA, INC.

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



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**Fig. 263: Locating Screw In Support**

Courtesy of BMW OF NORTH AMERICA, INC.

**Installation:**

Fit spacer (3).

**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. Refer to **51 43 252 REMOVING AND INSTALLING/REPLACING PANEL FOR REAR ROOF PILLAR (D-PILLAR), LEFT OR RIGHT** .

Release screw on support at top and remove support.

**51 24 010 ADJUSTING REAR LID LATCH FOR REAR LID UPPER SECTION**

Adjust rear lid upper section.

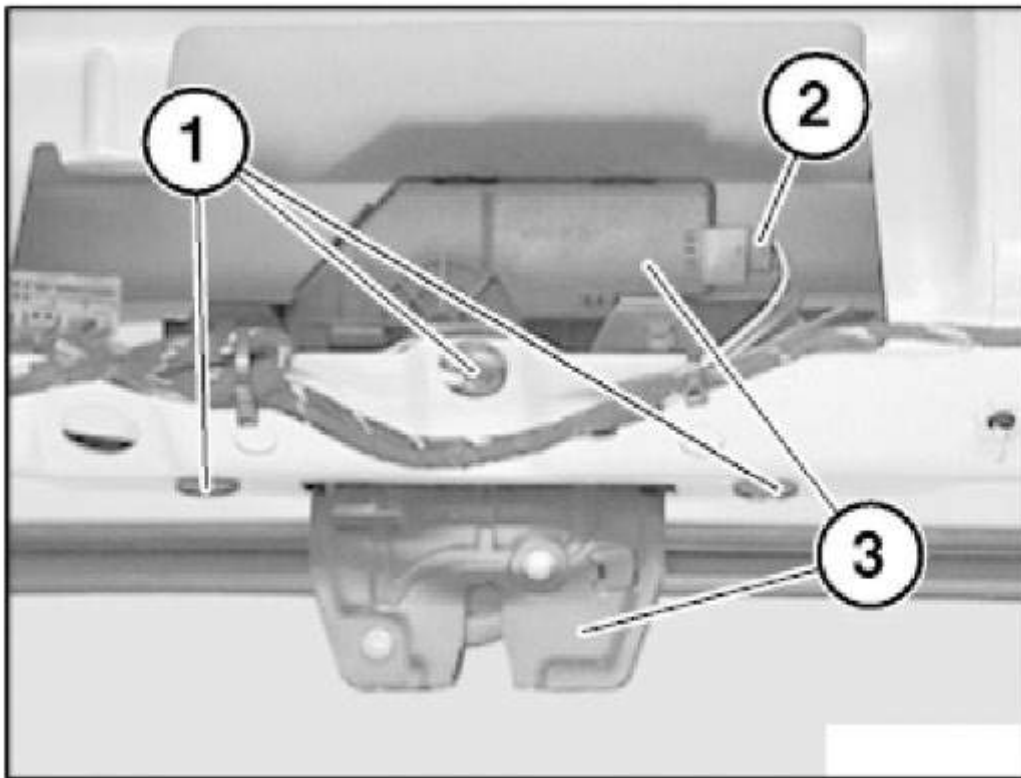
### **51 24 015 ADJUSTING REAR LID LATCH FOR REAR LID LOWER SECTION**

Adjust rear lid lower section.

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

Remove rear window wiper motor. Refer to **61 62 060 REMOVING AND INSTALLING / REPLACING REAR WINDOW WIPER MOTOR** .

Disconnect plug connection (2).

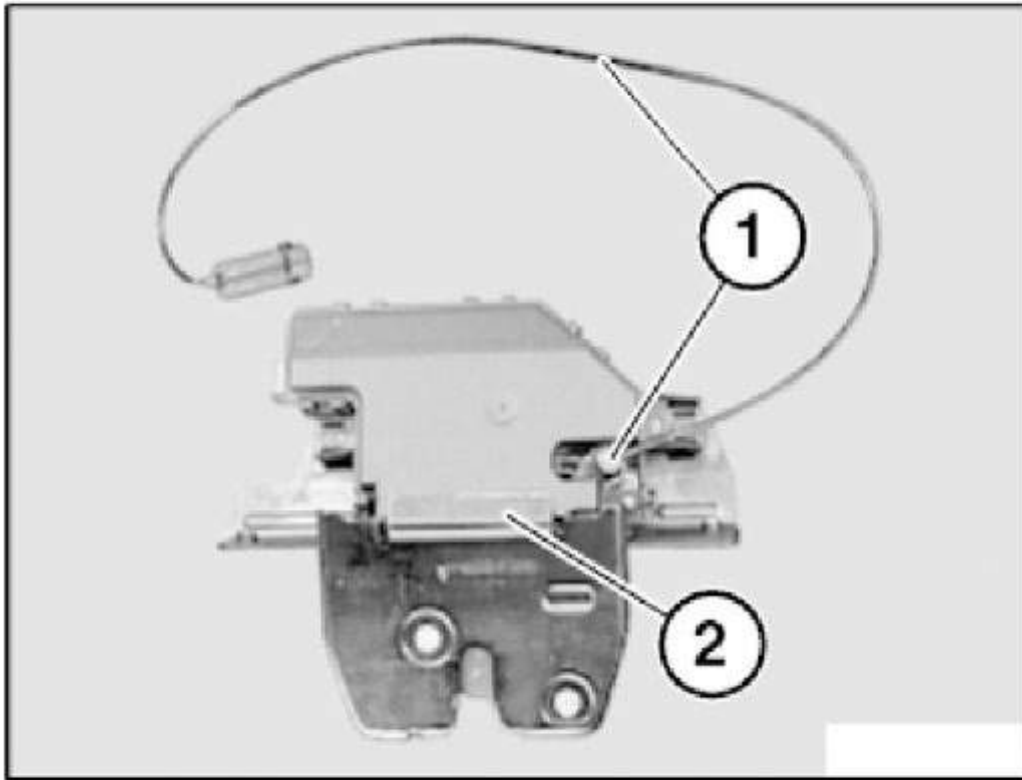


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**Fig. 264: Disconnecting Plug Connection**  
Courtesy of BMW OF NORTH AMERICA, INC.

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

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



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**Fig. 265: Unclipping Emergency Actuating Mechanism From Rear Lid Lock**  
Courtesy of BMW OF NORTH AMERICA, INC.

**Installation:**

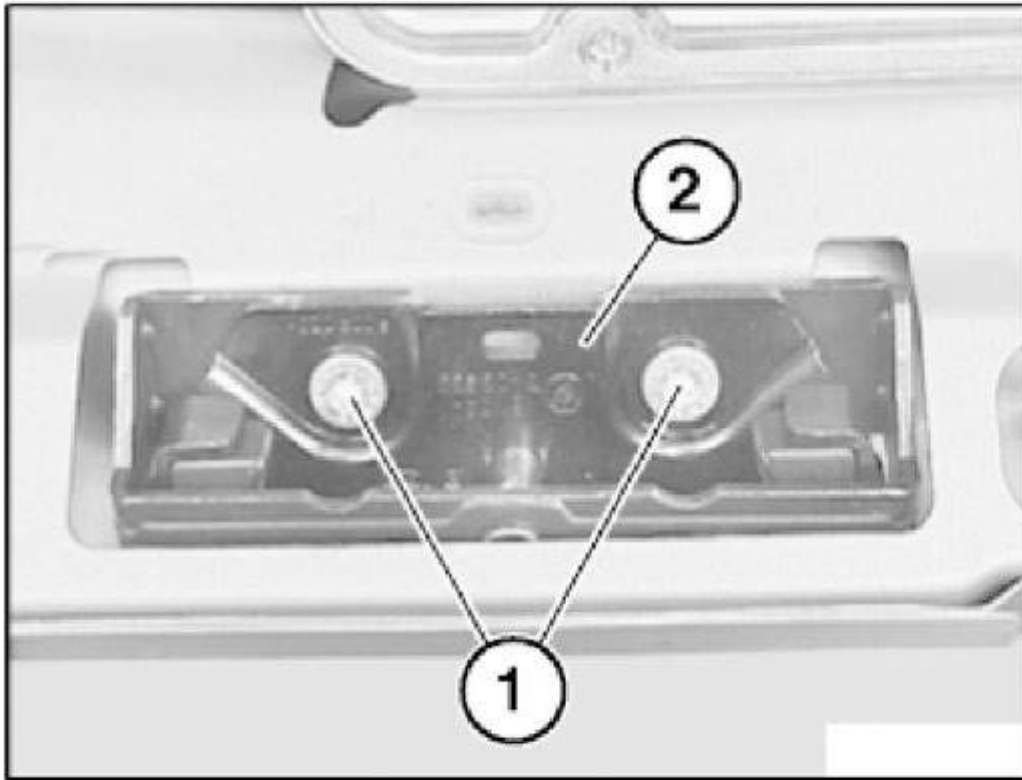
Adjust rear lid latch (striker) for upper section of rear lid lock.

**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. Refer to **51 49 090 REMOVING AND INSTALLING/REPLACING TRIM FOR REAR LID LOWER SECTION** .

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



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**Fig. 266: Releasing Screws And Removing Striker**  
Courtesy of BMW OF NORTH AMERICA, INC.

**Installation:**

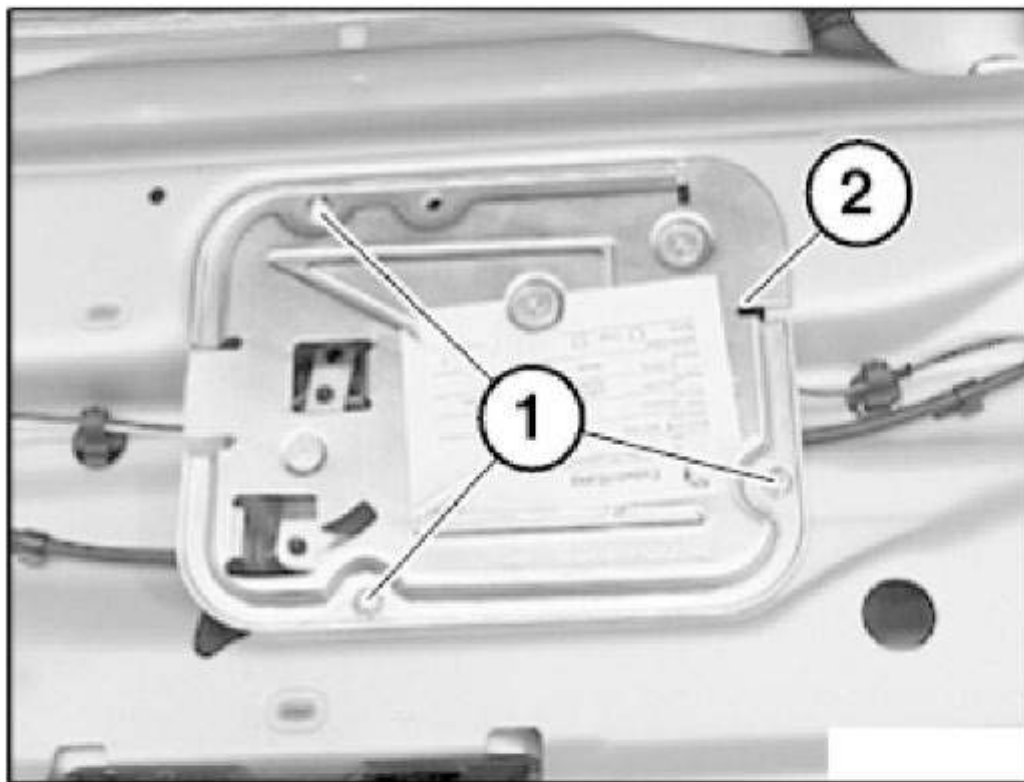
Adjust rear lid latch (striker) for upper section of rear lid lock.

**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. Refer to **51 49 090 REMOVING AND INSTALLING/REPLACING TRIM FOR REAR LID LOWER SECTION** .

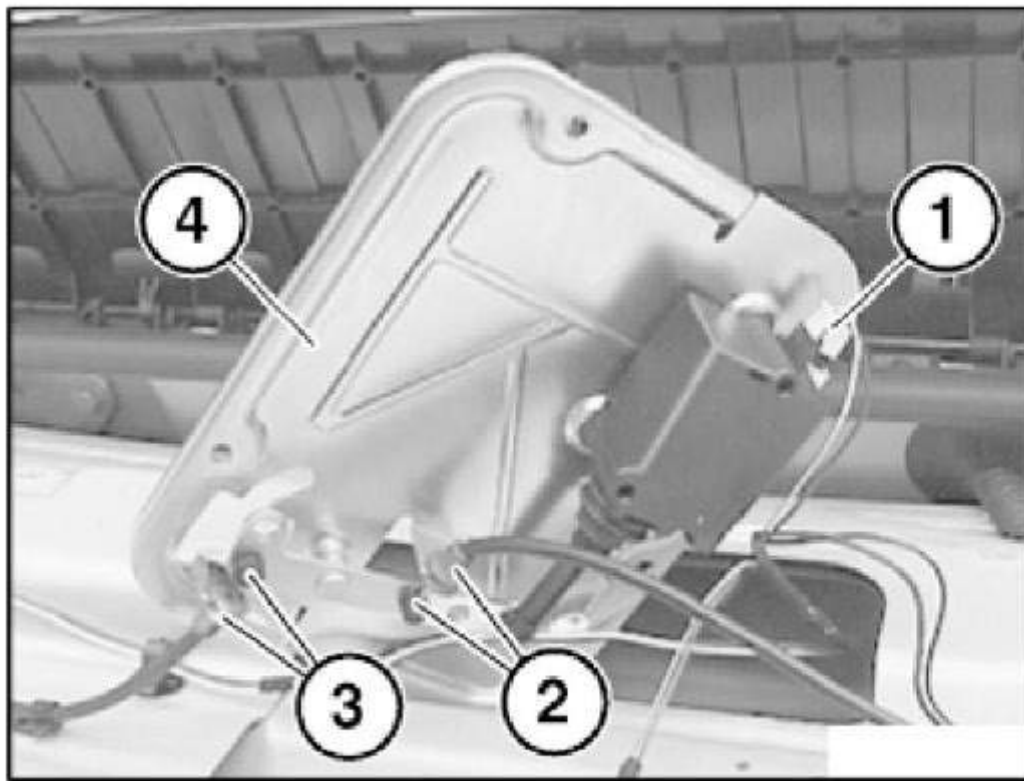
Release screws (1) on drive (2).



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**Fig. 267: Removing Screw On Drive**  
Courtesy of BMW OF NORTH AMERICA, INC.

Unfasten plug connection (1).



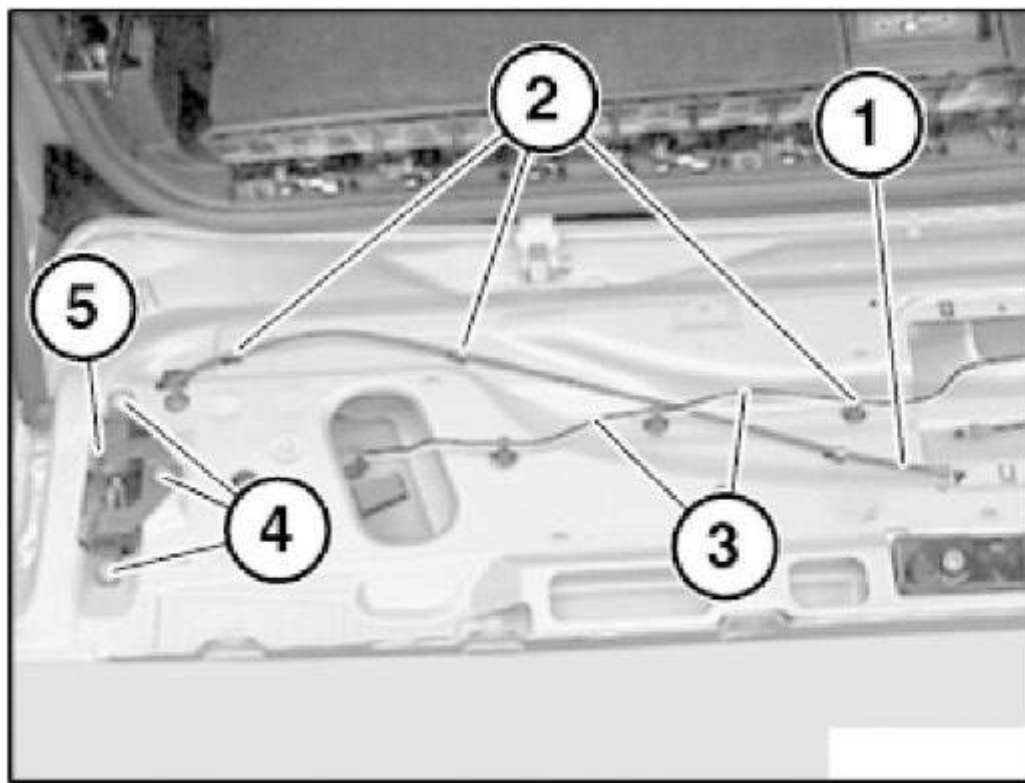
**G03255838**

**Fig. 268: Locating Plug Connection**

**Courtesy of BMW OF NORTH AMERICA, INC.**

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

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



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**Fig. 269: Unclipping Bowden Cable From Holders**  
Courtesy of BMW OF NORTH AMERICA, INC.

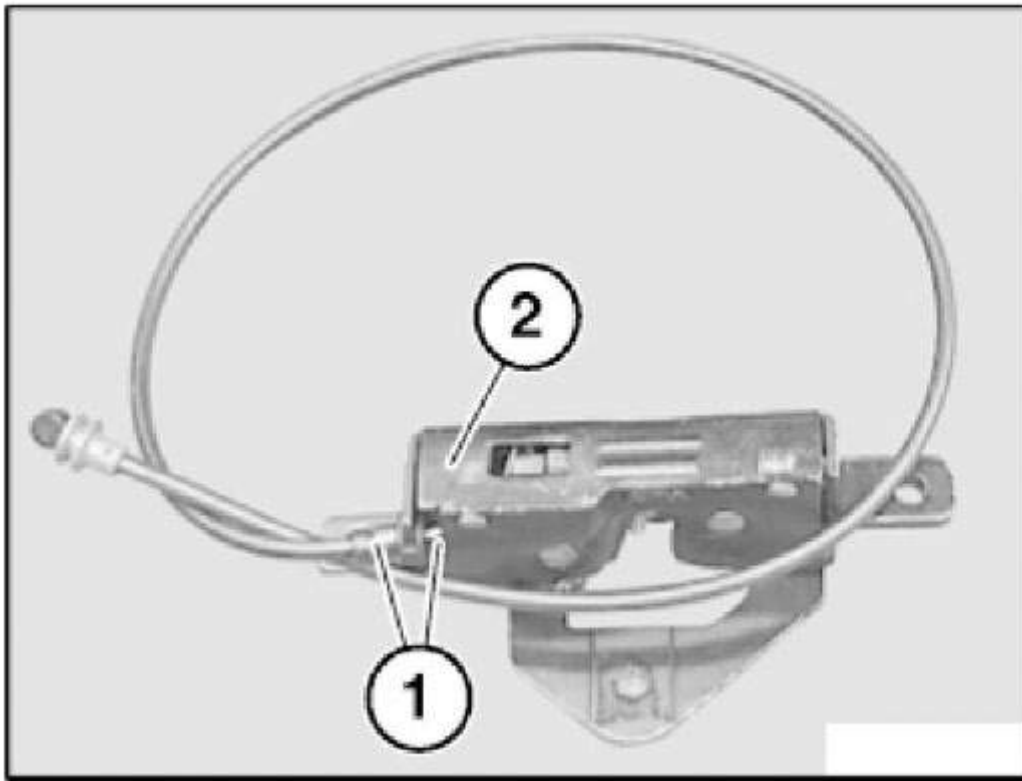
Release screws (4) and remove left or right lock (5).

**Installation:**

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

**Installation:**

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



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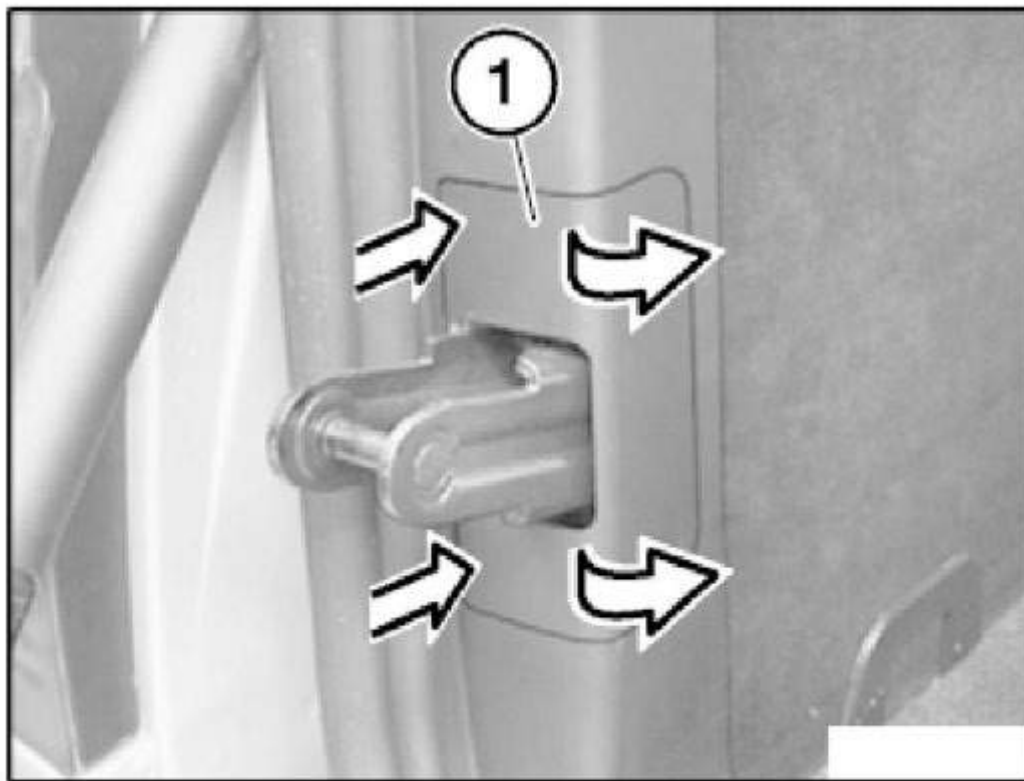
**Fig. 270: Identifying Bowden Cable**

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 towards inside.



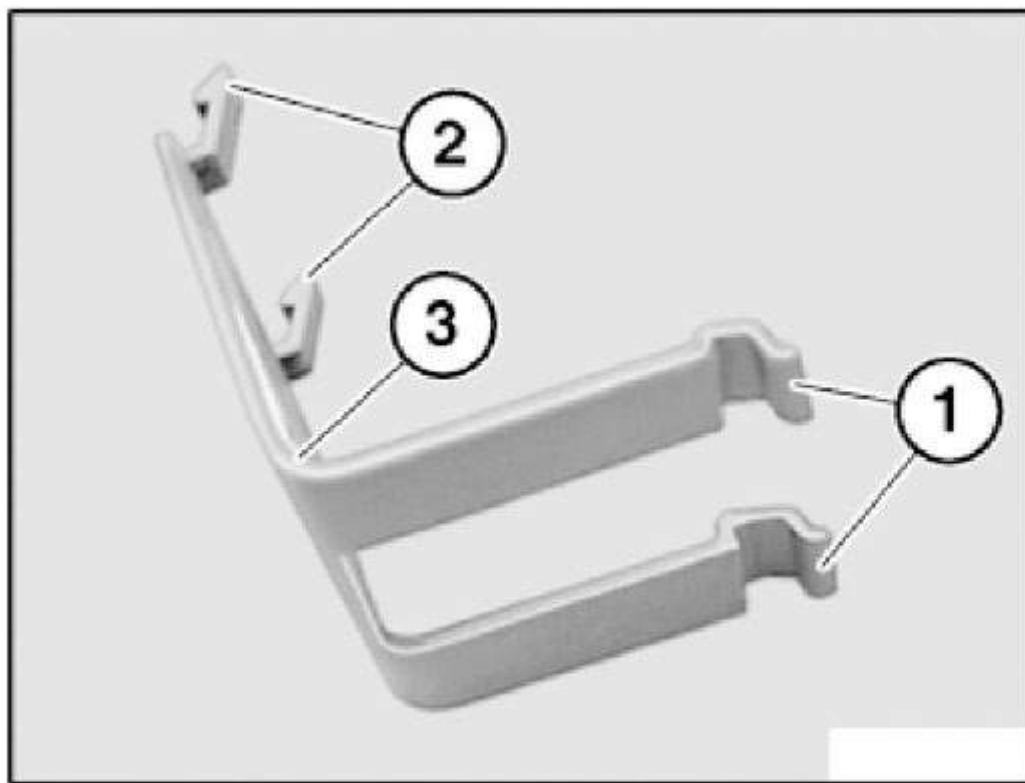
G03255841

**Fig. 271: Removing Striker Trim**

Courtesy of BMW OF NORTH AMERICA, INC.

**Installation:**

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



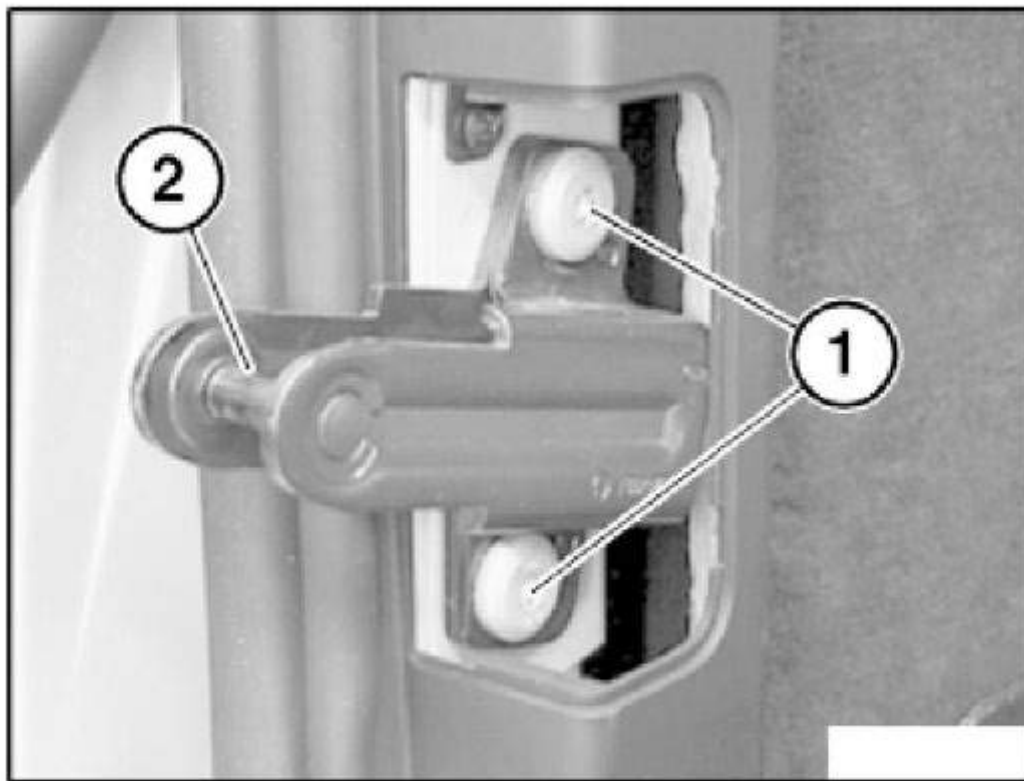
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**Fig. 272: Identifying Trim Guides And Catches**  
Courtesy of BMW OF NORTH AMERICA, INC.

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

**Installation:**

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



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**Fig. 273: Locating Screws For Rear Lid Latch**  
Courtesy of BMW OF NORTH AMERICA, INC.

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