

510-1

General

This repair group includes repair information for the outside rear view mirror, front and rear bumpers, and the easily removable exterior trim parts.

510-2

Outside Rear View Mirrors

Many of the mirror components are separately available from an authorized BMW dealer, including the glass and outside plastic housing.

Outside mirror glass, replacing

CAUTION!

Mirror should be at or above room temperature before removal. Otherwise, small plastic parts or glass may break.

- Insert thin pry tool (wooden or tape-wrapped screwdriver) between bottom mirror edge and mirror housing and carefully pry out mirror glass from housing.



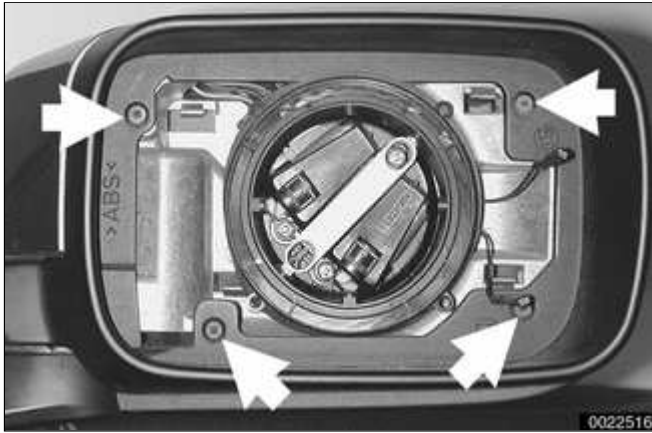
Prying mirror glass out of mirror housing. Note screwdriver shaft wrapped with tape.

- Heated mirror: remove heating element harness connectors from back of mirror glass.
- Install new glass into position by pressing firmly until it snaps into place.

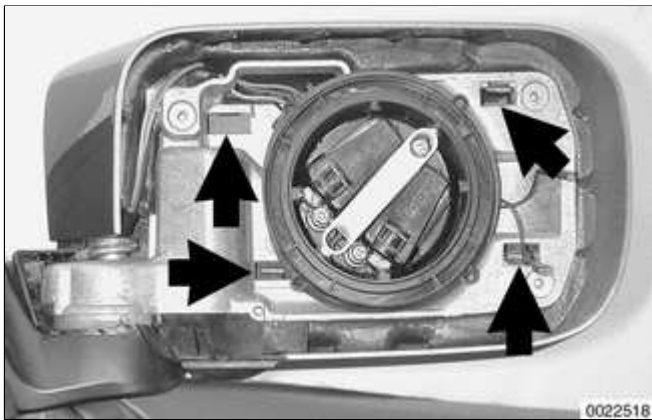
Outside mirror housing, removing and installing

- Remove mirror glass as described

above.



- Remove housing retaining screws (**arrows**) and lift off rear housing.



- Tilt mirror housing forward and compress plastic retainers (**arrows**) and lift off front housing.

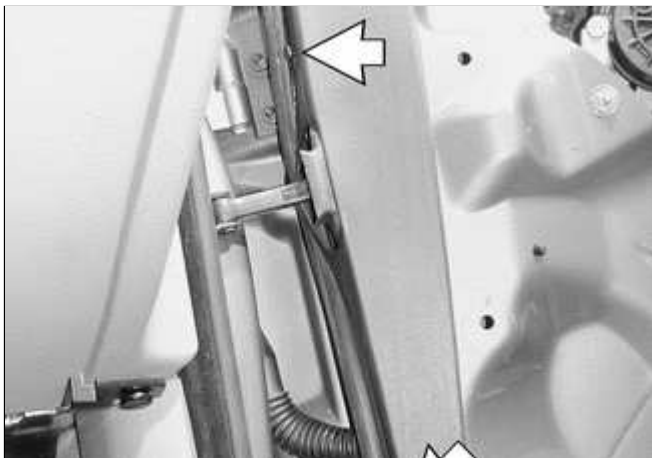
Note:

The front mirror housing is retained by either three or four clips, depending on model.

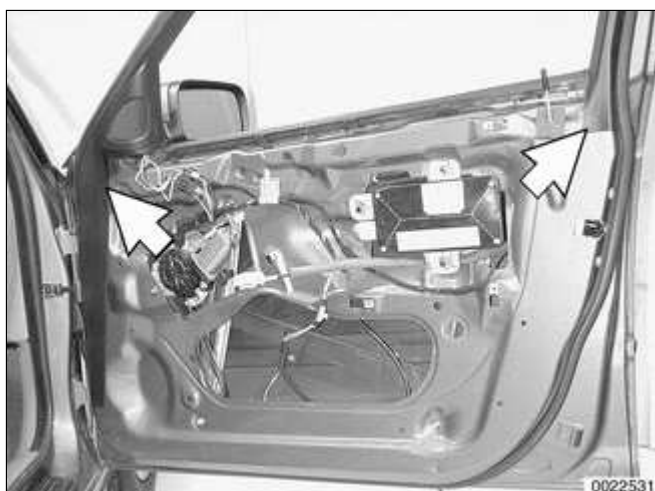
- Installation is reverse of removal. Check mirror function before installing covering parts.

Outside mirror, removing and installing

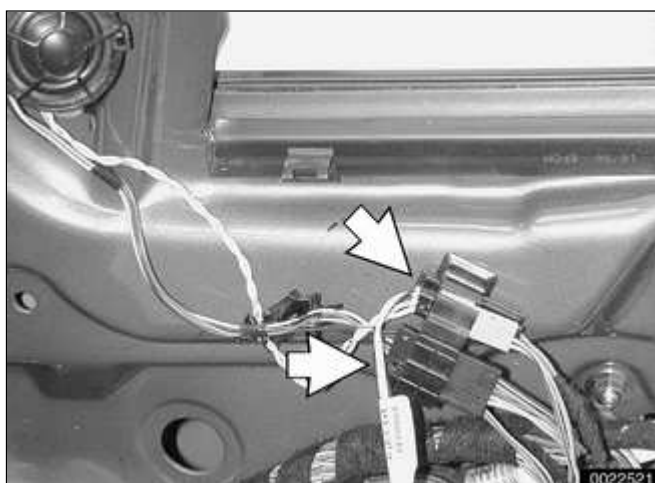
- Remove front door panel trim. See ⇒ [411 Doors](#).



- Working at door hinge, remove door inner trim panel retaining pins (**arrows**).



- Gently pry off door inner trim panel from retaining clips (**arrows**).



- Disconnect electrical harness connectors for window anti-trapping protection and speaker (**arrows**), if equipped.



- Remove inner door panel trim. On sedan models, trim strip extends around window to door latch area.



- Support mirror and speaker (if equipped) and remove mounting bolts (**arrows**). Lift speaker and mirror off door and feed out cable.

- Installation is reverse of removal.

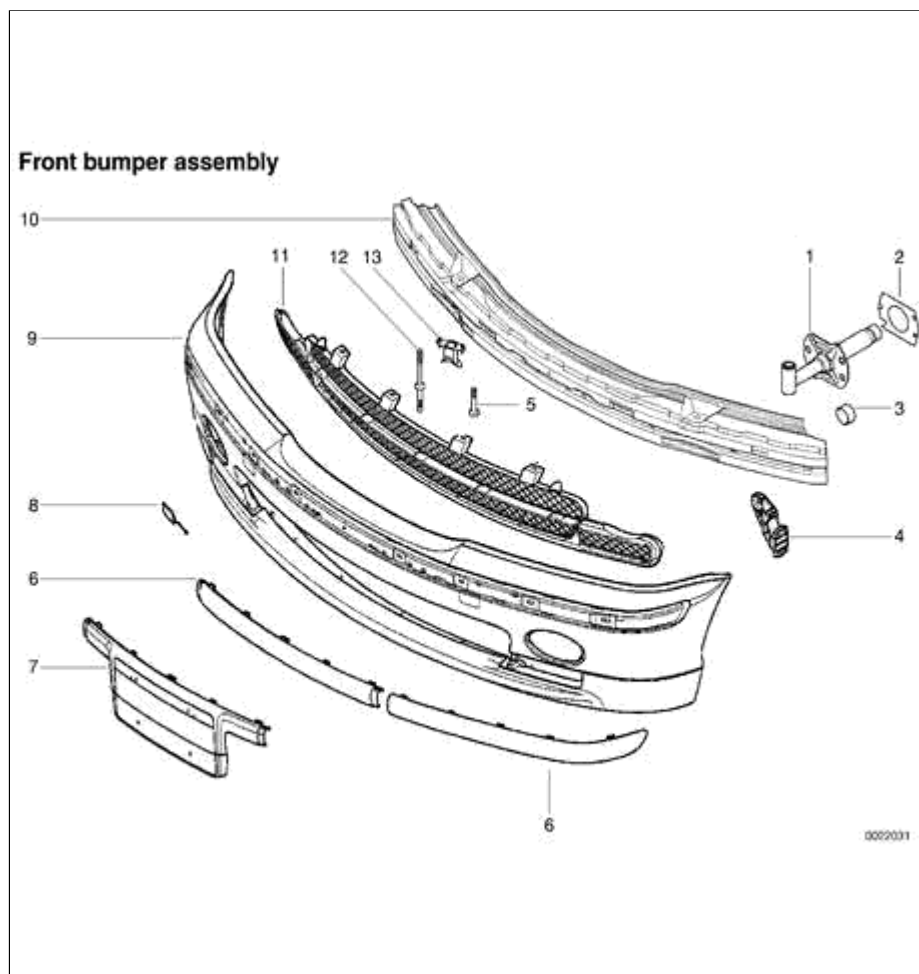


Check mirror function before installing covering parts.

Tightening torque	
Outside mirror to door (M6)	6 Nm (4.5 ft-lb)

510-3

Bumpers



Front bumper assembly

- 1 - Impact absorber
- 2 - Spacer
- 3 - Cap
- 4 - Support bracket
- 5 - Bumper bracket bolt
- ◆ tighten to 41 Nm (30 ft-lb)
- 6 - Protective rubber strip
- 7 - License plate bracket
- 8 - Tow eye cover
- 9 - Bumper cover
- 10 - Carrier bumper
- 11 - Grill
- 12 - ASA bolt
- ◆ tighten to 41 Nm (30 ft-lb)
- 13 - Mounting sleeve

Front bumper, removing and installing

- Raise and properly support vehicle.

WARNING!

Make sure that the car is firmly supported on jack stands designed for the purpose. Place the jack stands beneath a structural chassis point. Do not place jack stands under suspension parts.

- Working underneath car, remove screws from left and right side corner trim, then remove trim.



- ◀ Remove bumper cover retaining screws (**arrows**).



- ◀ Remove screws (**arrows**) retaining bumper bar to impact absorbers on left and right sides.
- Slide bumper assembly out a few inches and disconnect the following connections, if applicable:
 - ◆ Electrical harness connectors at fog light assemblies.
 - ◆ Electrical harness connector at signal horn.
 - ◆ Electrical harness connectors at

outside temperature sensor at rear of left side of bumper and temperature switch at rear of right side of bumper.

- Slide bumper straight off side brackets.
- Installation is reverse of removal, noting the following:
 - ◆ Slide side brackets on bumper and body carefully together.
 - ◆ Make sure gap between body and bumper is set to specifications, adjust height as necessary. See ⇒ [Bumper height, adjusting](#).

Tightening torque	
Bumper to impact absorber (M10)	41 Nm (30 ft-lb)

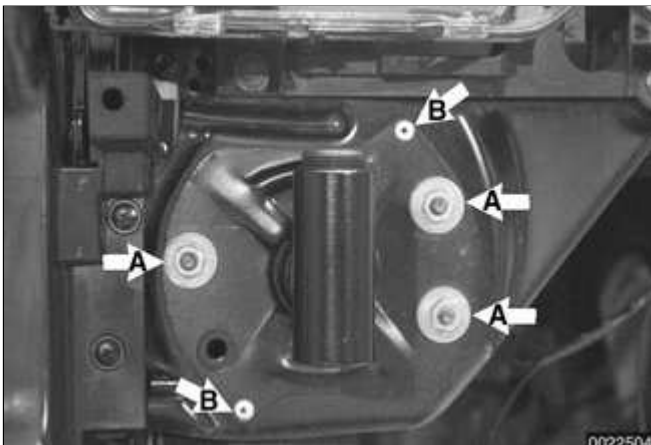
Front bumper impact absorber, replacing

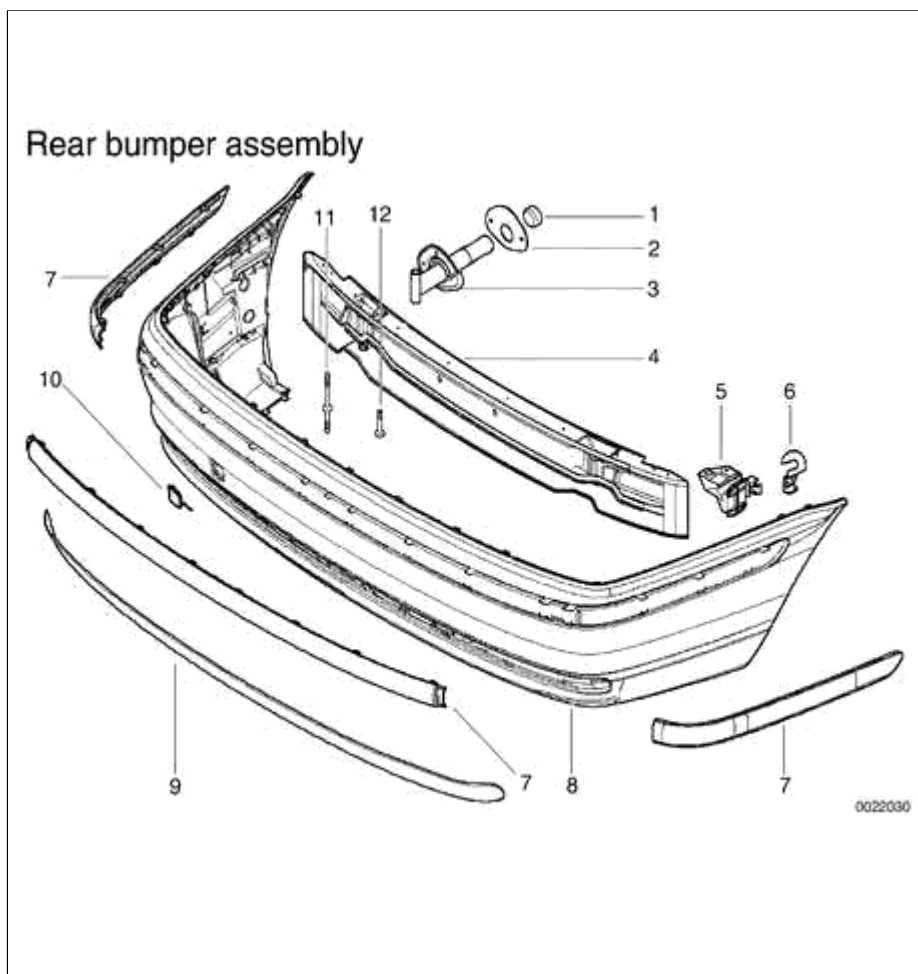
The bumper mounting bracket and impact absorber mounting hardware are accessible with the front bumper removed, as described above.

- ◀ Front bumper impact absorber mounting nuts (A) and drill out pop rivets (B).

Note:

Install the bumper bracket bolt with thread locking compound such as Loctite®270 or equivalent.





Rear bumper assembly

- 1 - Cap
- 2 - Casket
- 3 - Impact absorber
- 4 - Carrier bumper
- 5 - Support bracket
- 6 - Bracket
- 7 - Protective rubber strip
- 8 - Bumper cover
- 9 - Lower part cover
- 10 - Tow eye cover
- 11 - ASA bolt
- 12 - Bumper bracket bolt

◆ tighten to 41 Nm (30 ft-lb)

◆ tighten to 41 Nm (30 ft-lb)

Rear bumper, removing and installing

- Raise and properly support vehicle.

WARNING!

Make sure that the car is firmly supported on jack stands designed for the purpose. Place the jack stands beneath a structural chassis point. Do not place jack stands under suspension parts.



- Remove bumper support bolts using special BMW tool 00 2 150.



- Remove nut from bumper cover retaining bracket at rear of left and right rear wheel wells.
 - Remove expansion pin from lower rear wheel well. Remove wheel well liner from left and right sides.



- Release bumper bar retaining bolt (**arrow**) from impact absorber using BMW special tool 00 2 150, or similar Torx head socket.

CAUTION!

Protect possible contact areas to prevent damage or scratches to vehicle bumper and paint.

- Installation is reverse of removal.

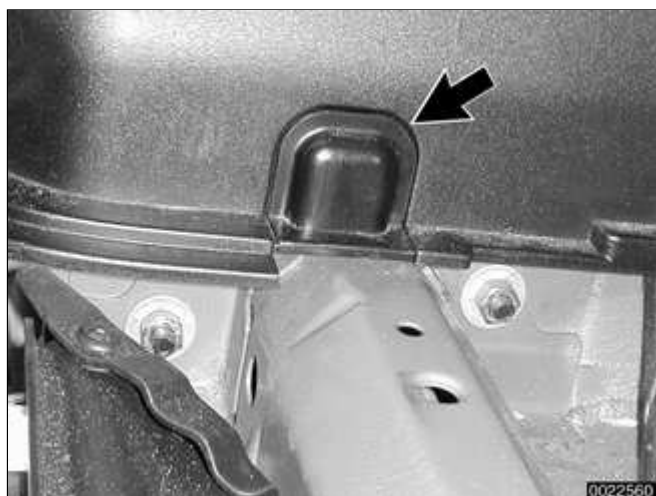
Note:

Install the bumper bracket bolt with thread locking compound such as Loctite®270 or equivalent.

Tightening torque	
Bumper bracket to impact absorber (M10 bolt)	41 Nm (30 ft-lb)

Rear bumper impact absorber, replacing

- Remove bumper as described above.
- Remove luggage compartment floor covering.
- Remove battery and battery tray on right side and trunk trim panel on left side.



- ◀ Remove trim caps (**arrow**) at rear of frame rails.



- ◀ Release nuts on inside on vehicle trunk and remove absorber.
- Installation is reverse of removal. Replace body seal and protective cap if necessary. Make sure to check bumper height. See ⇒



[Bumper height, adjusting.](#)

Tightening torques	
Bumper bracket to impact absorber (M10 bolt)	41 Nm (30 ft-lb)
Impact absorber to chassis (M8 nut)	22 Nm (16 ft-lb)

Bumper height, adjusting

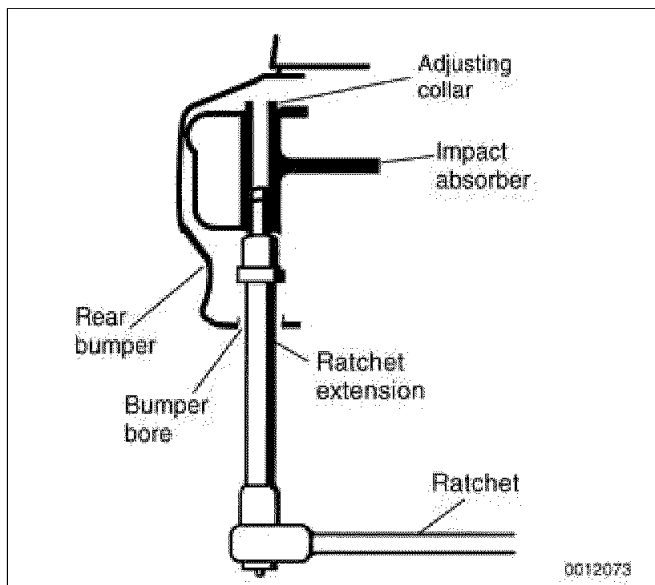
The adjustment procedure applies to either front or rear bumpers. A 14 mm allen socket is needed to make adjustments.

- Raise and properly support vehicle.

WARNING!

Make sure that the car is firmly supported on jack stands designed for the purpose. Place the jack stands beneath a structural chassis point. Do not place jack stands under suspension parts.

- Front bumper:
 - ◆ Remove bumper as described earlier.
 - ◆ Remove bumper bracket bolt.
- Rear bumper:
 - ◆ Remove lower bumper panel as described in ⇒ [Rear bumper, removing and installing.](#)
 - ◆ Remove bumper bracket mounting



bolt at impact absorber.

◀ Using a 12-inch extension and a 14 mm Allen socket, turn adjusting collar clockwise or counterclockwise as needed to change height of adjusting collar.

- Reinstall mounting bolts and check bumper height. Refit front bumper.

Tightening torques	
Front bumper to bumper bracket (M8 nut)	22 Nm (16 ft-lb)
Front bumper bracket to impact absorber (M10 bolt)	55 Nm (41 ft-lb)
Rear bumper bracket to impact absorber (M10 bolt)	42 Nm (31 ft-lb)

510-4

Exterior Trim

Exterior trim is retained to the body by plastic clips and fasteners that may be damaged during removal. Be sure to have necessary fasteners on hand when reinstalling exterior trim pieces.

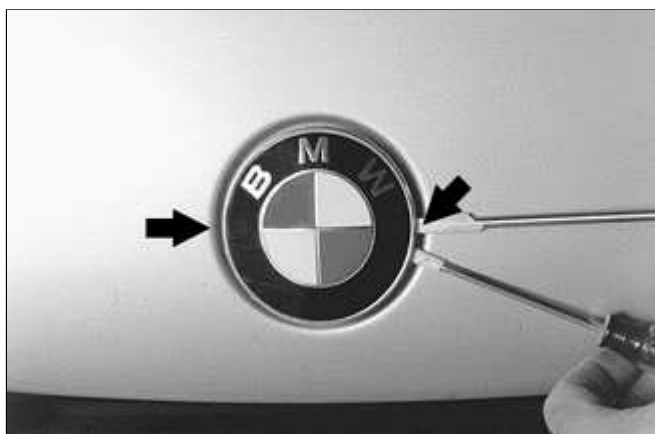
BMW emblem, removing and installing

The procedure given below applies to both front and rear emblems.

- Wrap end of a screwdriver with tape.

CAUTION!

Protect hood paint by covering area around emblem with tape.



- ◀ Carefully pry out emblem. Pry up emblem carefully on either side (**arrows**). Note tape on screwdriver tips.
- Installation is reverse of removal.
- ◆ Replace plastic inserts in body if damaged.
- ◆ If emblem fits loosely, use a small amount of body molding tape or adhesive on rear of emblem before installing.

Body side molding, replacing

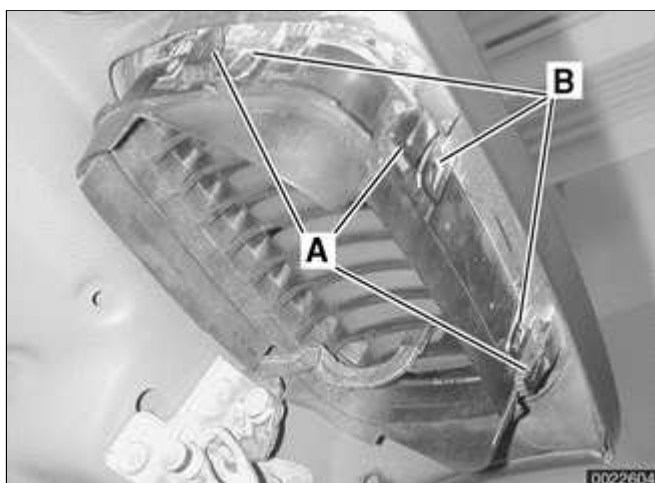
To remove body side moldings, carefully pry moldings straight off.



- ✦ Installation is reverse of removal. Replace any clips or clip covering boots damaged during removal.

Radiator grill, removing and installing

- Open hood.



- ✦ Gently pry out tab on left or right side of grill trim ring (A), as well as tabs on bottom.
 - Feed grill out through opening. Be careful of hood lever on driver's side grill.
 - Once grill is removed, pry remaining tabs (B) to separate inner grill from chrome trim ring.
 - Before installation, assemble chrome trim ring and grill insert securely. Replace components if tabs or catches are broken or missing.



- ✦ To install align grill and trim ring in appropriate location in hood. Press on trim ring until grill snaps into place.



Headlight housing trim panel, removing and installing

- Open hood.
- Remove spray nozzle of vehicles equipped with headlight cleaning systems. See ⇒ [611 Wipers and Washers](#).



- Unclip inner tab at radiator support.
- Press pane downward, out of retaining brackets. Feed out retaining hook at fender.
- Installation is reverse of removal.