

ACCESSORIES & EQUIPMENT

Lights - Repair Instructions - X6

LAMP SETTINGS

63 10 ... TEST REQUIREMENTS FOR HEADLIGHT VERTICAL AIM ADJUSTMENT

- Car parked on level ground.
- Replace faulty glass and mirrors and blackened light bulbs.
- Check tire pressure and correct if necessary.
- Apply load equivalent to one person on driver's seat (approx. 75 kg).
- Vehicle with full fuel tank or appropriate additional weight in luggage compartment.
- Correct adjustment of headlights in relation to engine hood (gap dimensions).
- Manual headlight vertical aim control: Turn handwheel to 0 position.
- Automatic headlight vertical aim control: Wait approx. 30 seconds after switching on lights.
- Version with xenon headlights: Wait 80 seconds after switching on lights. During this time, do not move the vehicle and avoid vibrations.
- Align headlight aimer with vehicle longitudinal axis and parallel to parking surface. Set marking line (M) on aimer to distance (e). Scale graduations on aimer are equal to a gradient in cm at a distance of 10 meters.

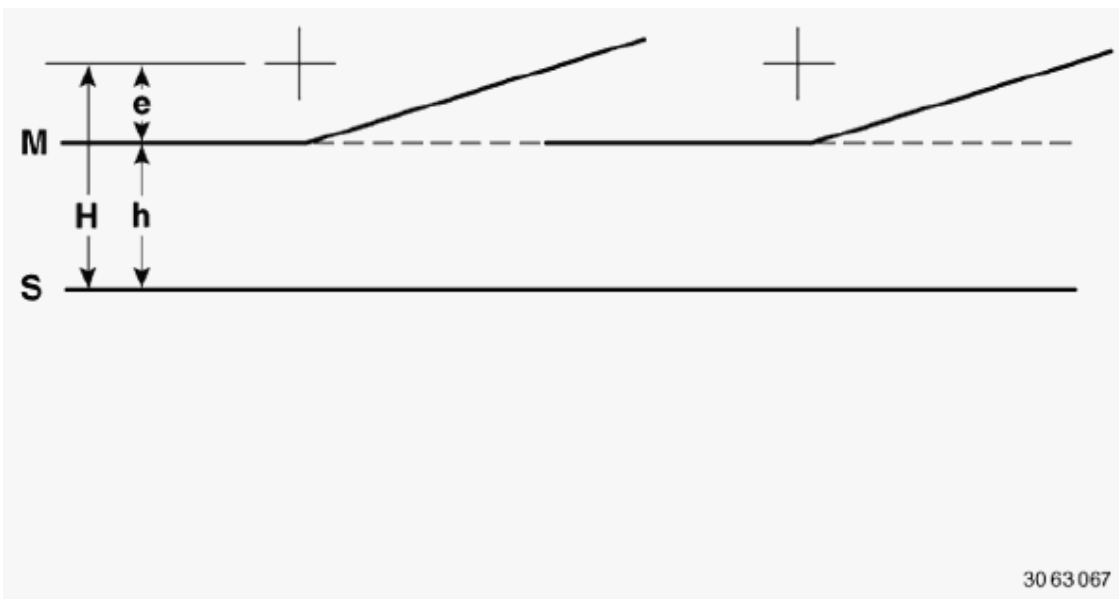


Fig. 1: Identifying Marking Line On Aimer
Courtesy of BMW OF NORTH AMERICA, INC.

Light/dark limit of headlights in headlight aimer

e Adjustment dimension, headlights:

- as per type plate on headlight housing in % (e.g.: 1.0 % = 10 cm/10 m = 10 on headlight aimer).

Adjustment dimension, fog lights:

- all vehicles 2.0 % = 20 cm/10 m = 20 on headlight aimer.

H Height of center of headlight above parking surface.

h H - e = height of marking line above parking surface

+ Central mark = center point of high-beam headlight.

M Marking line of headlamp aimer

S Parking surface of vehicle and headlight aimer

Adjustment dimension (e) is only valid for EUR. Observe differing national regulations.

63 10 004 ADJUSTING HEADLIGHTS

NOTE: Observe test preconditions for adjusting headlights , see 63 10 ... Test requirements for headlight vertical aim adjustment.

Adjust headlights at adjusting screws (1) and (2).

A definite allocation of adjusting screws is not possible.

1. Adjustment screw primarily for vertical adjustment
2. Adjustment screw primarily for lateral adjustment

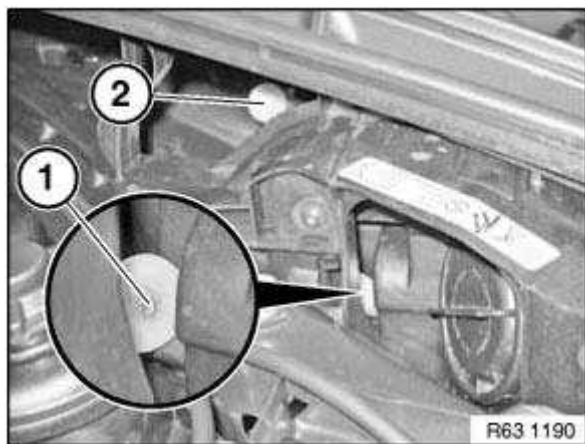


Fig. 2: Identifying Headlights Adjusting Screws
Courtesy of BMW OF NORTH AMERICA, INC.

63 10 014 ADJUSTING FOG LIGHTS

NOTE: Comply with test preconditions for headlight adjustment , see 63 10 ... Test requirements for headlight vertical aim adjustment.

Adjust fog lamp (1) by turning adjusting screw (2) with screwdriver (3).

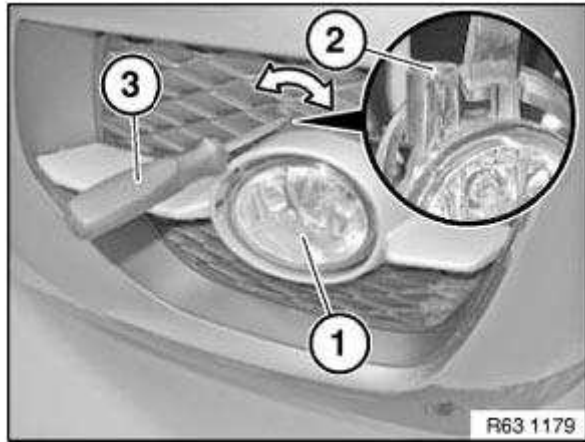


Fig. 3: Identifying Fog Lamp And Adjusting Screw
Courtesy of BMW OF NORTH AMERICA, INC.

HEADLIGHTS

63 12 010 REMOVING AND INSTALLING OR REPLACING LEFT HEADLIGHT (XENON HEADLIGHT)

Operation is described in:

Removing and installing/replacing left headlight (adaptive headlight), see 63 12 015 Removing and installing/replacing left (or right) headlight (adaptive headlight).

63 12 012 REMOVING AND INSTALLING RIGHT HEADLIGHT (XENON HEADLIGHT)

Operation is described in:

Removing and installing left headlight , see 63 12 015 Removing and installing/replacing left (or right) headlight (adaptive headlight).

63 12 015 REMOVING AND INSTALLING/REPLACING LEFT (OR RIGHT) HEADLIGHT (ADAPTIVE HEADLIGHT)

Special tools required:

- 00 9 317 , see 00 9 317 TRIM PANEL WEDGE .

WARNING: Version with xenon headlights: Danger to life due to high voltage!
Therefore, before removing, disconnect all components from the power supply (lighting system and ignition off).
Work on the entire xenon lighting system (control unit, ignition unit with bulb) may only be carried out by specialist personnel.
Follow instructions for handling light bulbs (exterior lights , see 63 99 ... Instructions for replacing light bulbs (interior lights))).

Necessary preliminary tasks:

- Remove **front wheel arch cover (front section)** , see 51 71 038 REMOVING AND INSTALLING/REPLACING FRONT LEFT OR RIGHT WHEEL ARCH COVER (FRONT SECTION) .

Right headlight:

Release nut (1) and remove holder (2) with relay for deactivating electric fan from wheel arch (3).

Installation:

Guide lug (4) of holder (2) must be positioned in associated bore in wheel arch (3).

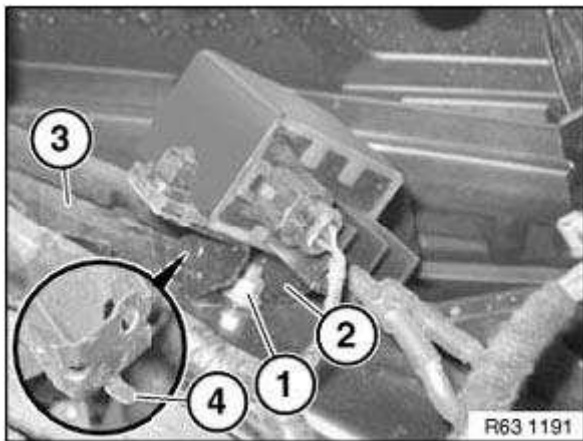


Fig. 4: Identifying Guide Lug, Holder And Wheel Arch
Courtesy of BMW OF NORTH AMERICA, INC.

IMPORTANT: Risk of damage!

Carry out the following operations with care so as to avoid damaging the side panel, headlight, wiring harness and fluid reservoir for windscreen washer system.

Disconnect plug connection (1).

Release wiring harness (2) in area (A) of wheel arch, lay to one side and secure.

Release screw (5). Tightening torque **63 12 2AZ** , see **63 12 HEADLIGHTS** .

Release screws (3). Tightening torque **63 12 1AZ** , see **63 12 HEADLIGHTS** .

Pull headlight (4) forward slightly in direction of arrow.

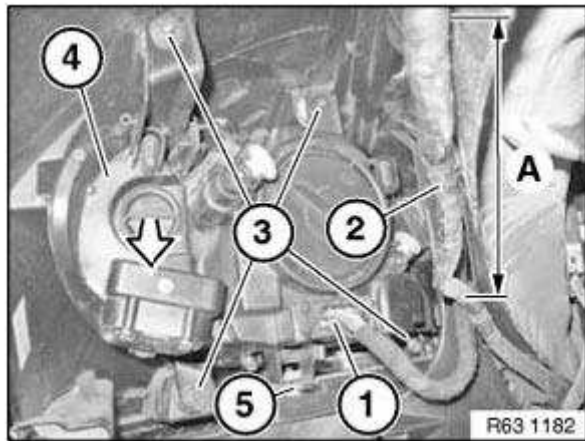


Fig. 5: Identifying Headlight, Wiring Harness And Screws
Courtesy of BMW OF NORTH AMERICA, INC.

Release screws (1). Tightening torque **41 35 4AZ** , see **41 35 SIDE PANELS** .

Raise side panel slightly with special tool **00 9 317** in area (A).

Installation:

Observe **gap dimensions** , see **41 00 ... GAP DIMENSIONS, BODY** .

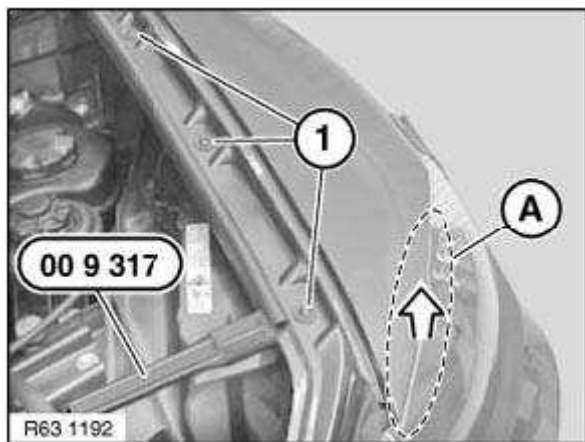


Fig. 6: Raising Side Panel Using Special Tool (00 9 317)
Courtesy of BMW OF NORTH AMERICA, INC.

Feed out headlight (1) in direction of arrow.

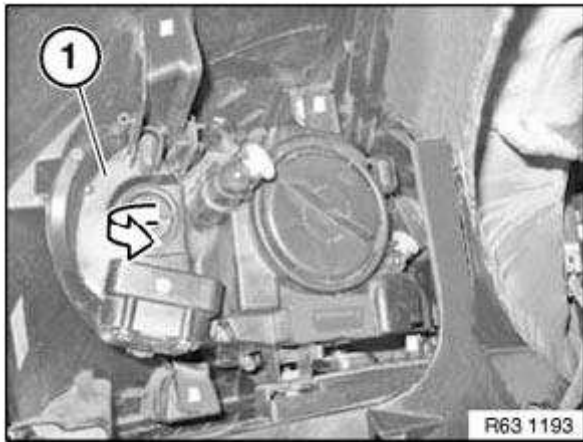


Fig. 7: Aligning Headlight

Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

- Before aligning headlight, remove special tool **00 9 317** and secure side panel
- Position headlight guides exactly on side panel
- Adjust headlight in accordance with **gap dimensions** by means of adjusting elements (4) to body, see **41 00 ... GAP DIMENSIONS, BODY** .
- Adjust **headlights** , see **63 10 004 Adjusting headlights**.

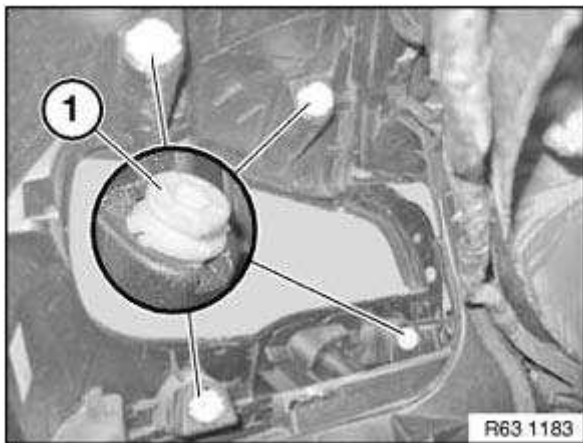


Fig. 8: Identifying Adjusting Elements To Body

Courtesy of BMW OF NORTH AMERICA, INC.

Replacement:

- Remove **ignition unit/bulb for xenon headlight** , see **63 12 870 Replacing ignition unit for left xenon headlight (with xenon bulb)**.
- Remove **control unit for xenon headlights** , see **63 12 860 Replacing control unit for left xenon headlight**.

- Remove **drive/electronics box for adaptive headlight** , see 63 12 895 Replacing drive/electronics box for left adaptive headlight.
- If necessary, remove **bulbs** , see 63 99 076 Replacing bulb for left (or right) xenon headlight (with ignition unit) or 63 99 145 Replacing bulb for left (or right) side lights (xenon headlight) or 63 99 273 Replacing bulb for left (or right) front turn indicator.

63 12 017 REMOVING AND INSTALLING/REPLACING RIGHT HEADLIGHT (ADAPTIVE HEADLIGHT)

Operation is described in:

Removing and installing **left headlight** , see 63 12 015 Removing and installing/replacing left (or right) headlight (adaptive headlight).

63 12 860 REPLACING CONTROL UNIT FOR LEFT XENON HEADLIGHT

WARNING: Version with xenon headlights: Danger to life due to high voltage! Therefore, before removing, disconnect all components from the power supply (lighting system and ignition off). Work on the entire xenon lighting system (control unit, ignition unit with bulb) may only be carried out by specialist personnel.

IMPORTANT: Read and comply with notes on protection against electrostatic damage (ESD protection , see 61 35 ... NOTES ON ESD PROTECTION (ELECTRO STATIC DISCHARGE)).

Necessary preliminary tasks:

- Remove **front bumper trim** , see 51 11 156 REMOVING AND INSTALLING FRONT BUMPER TRIM .

NOTE: Headlight shown removed for purposes of clarity.

Release screws (1). Tightening torque **63 12 3AZ** , see 63 12 HEADLIGHTS .

Remove control unit for xenon headlight (2) from headlight (3).

Installation:

Make sure sealing sleeve (5) is correctly fitted on control unit for xenon headlight (2).

Fit control unit for xenon headlight (2) exactly on headlight (3).

Make sure pin housing (4) of control unit for xenon headlight (2) is correctly seated in associated headlight plug housing (3).

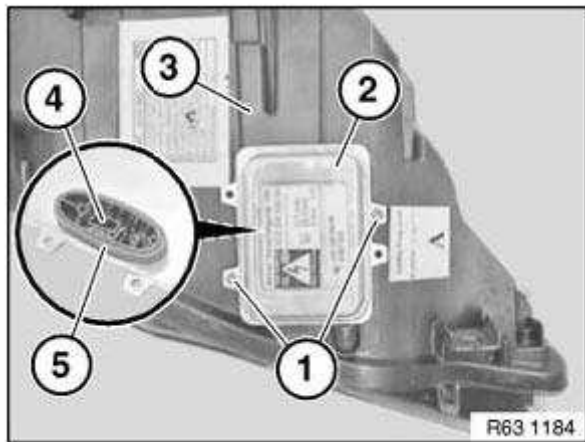


Fig. 9: Identifying Pin Housing, Xenon Headlight And Headlight Plug Housing
 Courtesy of BMW OF NORTH AMERICA, INC.

63 12 861 REPLACING CONTROL UNIT FOR RIGHT XENON HEADLIGHT

Operation is described in:

Replacing control unit for left xenon headlight , see [63 12 860 Replacing control unit for left xenon headlight](#).

63 12 870 REPLACING IGNITION UNIT FOR LEFT XENON HEADLIGHT (WITH XENON BULB)

WARNING: Version with xenon headlights: Danger to life due to high voltage!
 Therefore, before removing, disconnect all components from the power supply (lighting system and ignition off).
 Work on the entire xenon lighting system (control unit, ignition unit with bulb) may only be carried out by specialist personnel.
 Follow instructions for handling light bulbs (exterior lights , see [63 99 ... Instructions for handling light bulbs \(exterior lights\)](#)).

IMPORTANT: Ignition unit and xenon bulb are viewed as a single component and must not be separated.

Turn cover (1) in direction of arrow and remove from headlight (2).

Installation:

Make sure seal is correctly fitted on cover (1).

Fit cover (1) on headlight (2) so that marking (3) is at top.

Make sure cover (1) is correctly engaged on headlight (2).

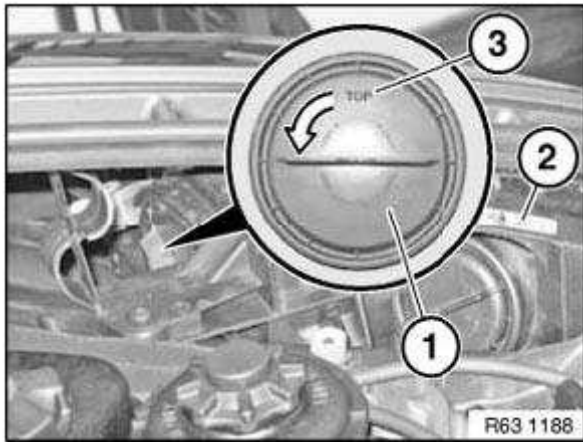


Fig. 10: Removing Headlight
Courtesy of BMW OF NORTH AMERICA, INC.

Press in retaining bracket (1) for releasing retaining lug (2) in direction of arrow.

Disconnect plug (3) in downward direction from ignition unit for xenon headlight (4).

Turn ignition unit for xenon headlight (4) in direction of arrow and remove from headlight (5).

Installation:

Make sure ignition unit for xenon headlight (4) is correctly seated and engaged on headlight (5).

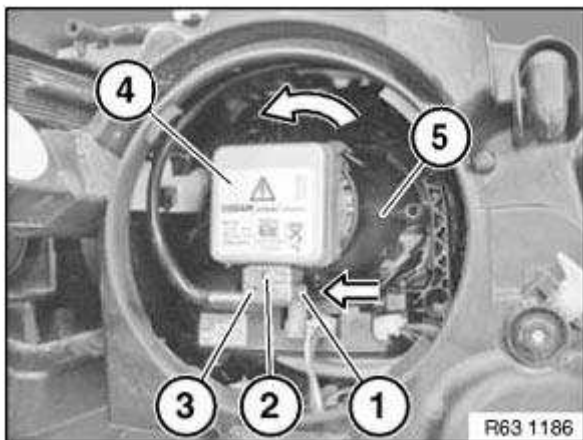


Fig. 11: Identifying Xenon Headlight And Headlight
Courtesy of BMW OF NORTH AMERICA, INC.

Unlock catch (1), expand bulb holder (2) in direction of arrow (A) on one side and remove in direction of arrow (B) from ignition unit for xenon headlight (3).

Installation:

Make sure bulb holder (2) is correctly seated on ignition unit for xenon headlight (3).

Guides (4) of bulb holder (2) must be positioned in associated recesses of ignition unit for xenon headlight (3).

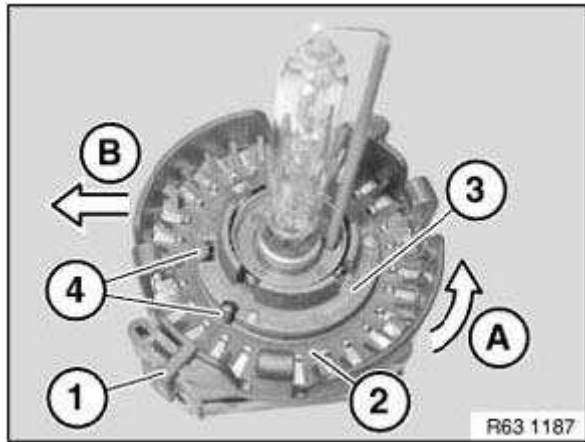


Fig. 12: Identifying Guides Of Bulb Holder
Courtesy of BMW OF NORTH AMERICA, INC.

63 12 871 REPLACING RIGHT IGNITION UNIT FOR RIGHT XENON HEADLIGHT

Operation is described in:

Replacing **ignition unit for left xenon headlight** , see 63 12 870 Replacing ignition unit for left xenon headlight (with xenon bulb).

63 12 895 REPLACING DRIVE/ELECTRONICS BOX FOR LEFT ADAPTIVE HEADLIGHT

WARNING: Version with xenon headlights: Danger to life due to high voltage!
Therefore, before removing, disconnect all components from the power supply (lighting system and ignition off).
Work on the entire xenon lighting system (control unit, ignition unit with lamp) may only be carried out by specialist personnel.

IMPORTANT: Read and comply with notes on protection against electrostatic damage (ESD protection , see 61 35 ... NOTES ON ESD PROTECTION (ELECTRO STATIC DISCHARGE)).

Necessary preliminary tasks:

- Remove **front wheel arch cover (front section)** , see 51 71 038 REMOVING AND INSTALLING/REPLACING FRONT LEFT OR RIGHT WHEEL ARCH COVER (FRONT SECTION) .

Release screws (1). Tightening torque **63 12 4AZ** , see 63 12 HEADLIGHTS .

Remove drive/electronics box for adaptive headlight (2) from headlight.

Installation:

Make sure seal is correctly fitted on drive/electronics box for adaptive headlight (2).

Fit drive/electronics box for adaptive headlight (2) exactly on headlight.

Make sure pin housing (3) of drive/electronics box for adaptive headlight (2) is correctly seated in headlight plug housing (4).

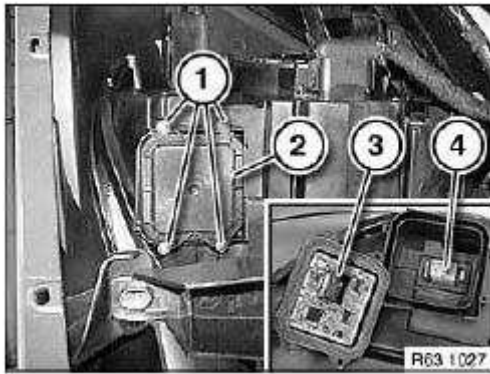


Fig. 13: Identifying Headlight Plug Housing And Adaptive Headlight
Courtesy of BMW OF NORTH AMERICA, INC.

Carry out **vehicle programming/coding** .

63 12 896 REPLACING DRIVE/ELECTRONICS BOX FOR RIGHT ADAPTIVE HEADLIGHT

Operation is described in:

Replacing **drive/electronics box for left adaptive headlight** , see **63 12 895 Replacing drive/electronics box for left adaptive headlight**.

67 16 011 REMOVING AND INSTALLING/REPLACING LEFT HEADLIGHT VERTICAL AIM ADJUSTER (XENON HEADLIGHT)

WARNING: Version with xenon headlights: Danger to life due to high voltage!
Therefore disconnect all components from voltage supply before removal.
Work on the entire xenon lighting system (control unit, ignition unit with bulb) may only be carried out by specialist personnel.

Necessary preliminary tasks:

- Remove **headlight** , see **63 12 015 Removing and installing/replacing left (or right) headlight (adaptive headlight)**.

Disconnect plug connection (1).

Unlock servomotor (2) in direction of arrow and feed out.

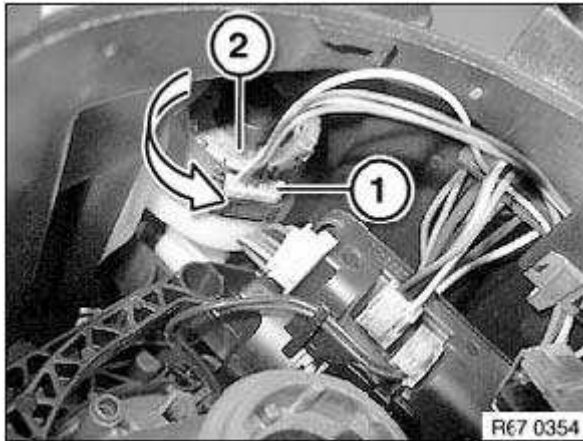


Fig. 14: Identifying Plug Connection And Servomotor
Courtesy of BMW OF NORTH AMERICA, INC.

NOTE: Work is shown on an E90 headlight by way of example. There may be differences in detail in the case of other vehicles.

Installation:

Slide headlight insert (1) upwards in direction of arrow.

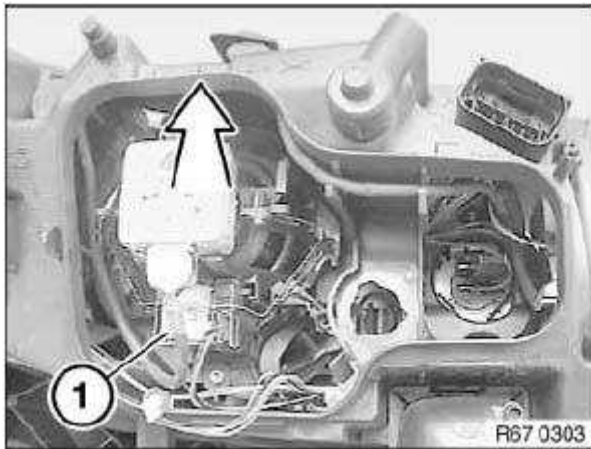


Fig. 15: Sliding Headlight
Courtesy of BMW OF NORTH AMERICA, INC.

Feed ball head of vertical aim adjuster (1) into mounting (2).

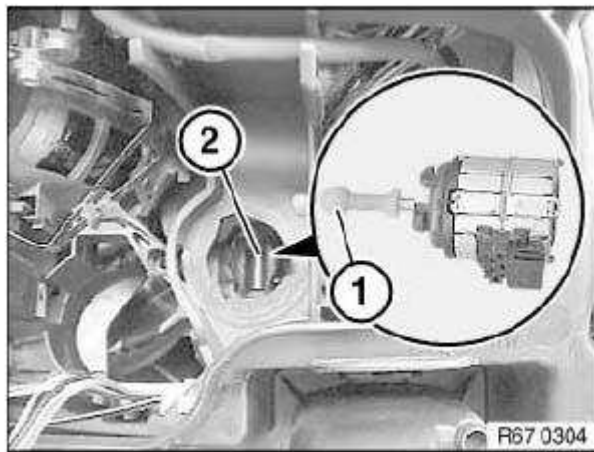


Fig. 16: Identifying Aim Adjuster And Mounting
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Sealing ring (1) and retaining lugs (2) must not be damaged.

Make sure retaining lugs (2) are correctly locked in guides (3).

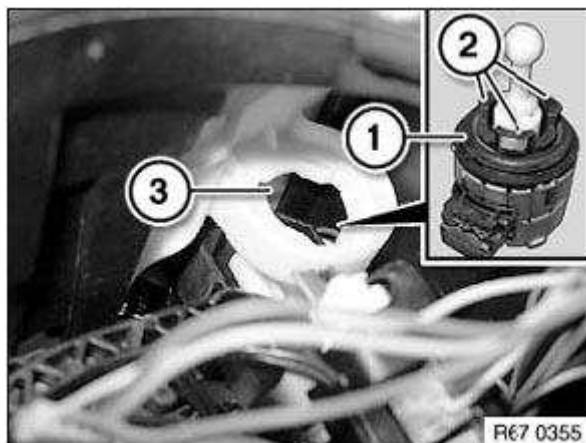


Fig. 17: Identifying Retaining Lugs And Guides
Courtesy of BMW OF NORTH AMERICA, INC.

After installation:

- Adjust headlights , see **63 10 ADJUSTMENT OF LIGHTS E70/E71** .

67 16 016 REMOVING AND INSTALLING/REPLACING RIGHT HEADLIGHT VERTICAL AIM ADJUSTER (XENON HEADLIGHT)

Operation is described in Removing and installing/replacing **left headlight vertical aim adjuster** , see **67 16**

011 Removing and installing/replacing left headlight vertical aim adjuster (xenon headlight).

TURN SIGNAL INDICATOR LIGHTS

63 13 200 REMOVING AND INSTALLING/REPLACING FRONT LEFT OR RIGHT AUXILIARY DIRECTION INDICATOR

Special tools required:

- 00 9 340 , see 00 9 340 DISASSEMBLY AID (2 PIECES) .

WARNING: Follow instructions for handling light bulbs (exterior lights , see 63 99 ... Instructions for handling light bulbs (exterior lights)).

Fold out auxiliary direction indicator (1) with special tool 00 9 340 in direction of arrow.

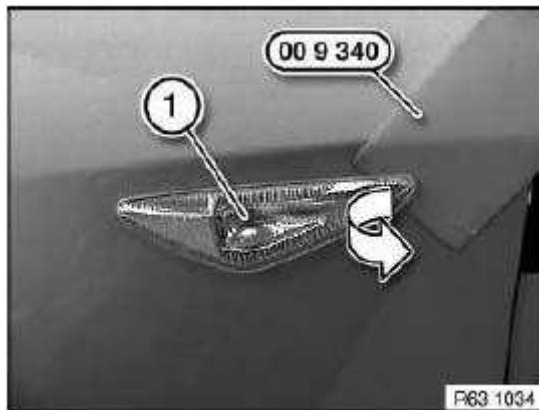


Fig. 18: Identifying Indicator With Special Tool (00 9 340)
Courtesy of BMW OF NORTH AMERICA, INC.

Disconnect plug connection (1).

Remove auxiliary direction indicator (2).

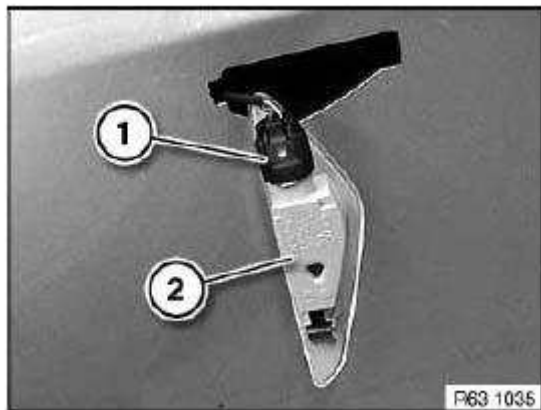


Fig. 19: Identifying Plug Connection And Indicator
Courtesy of BMW OF NORTH AMERICA, INC.

CLEARANCE AND SIDE MARKER LAMPS

63 14 080 REMOVING AND INSTALLING/REPLACING FRONT REFLECTOR

Special tools required:

- **00 9 322** , see **MAINTENANCE AND GENERAL INFORMATION - SPECIAL TOOLS -- X6** .

Lever front reflector (1) with special tool **00 9 322** in direction of arrow (A) out of front side panel (2) and remove in direction of arrow (B).

Installation:

Locking spring (3) must not be damaged or missing.

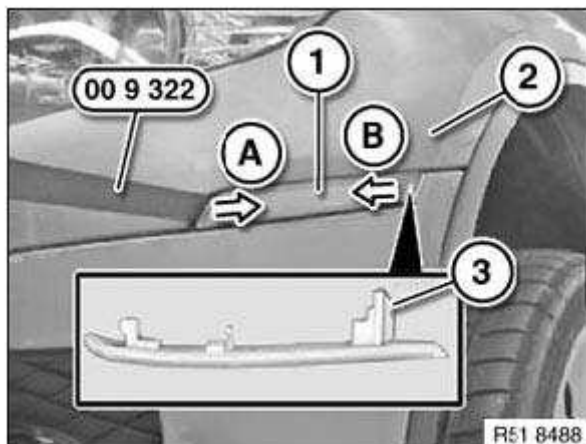


Fig. 20: Identifying Spring And Side Panel
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Feed front reflector (1) first in front area into front side panel and then press down in rear area.

Make sure front reflector (1) is correctly engaged on front side panel.

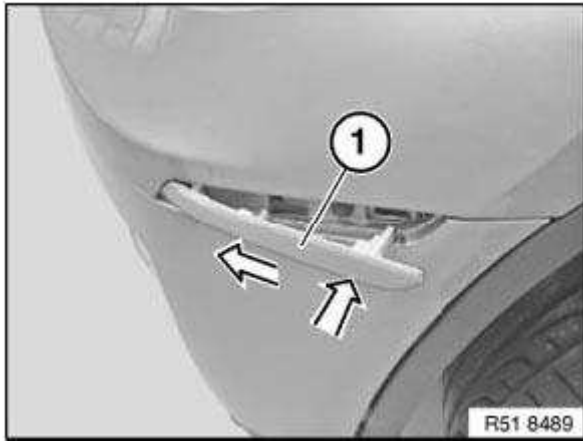


Fig. 21: Identifying Front Reflector On Front Side Panel
Courtesy of BMW OF NORTH AMERICA, INC.

63 14 120 REMOVING AND INSTALLING/REPLACING REAR REFLECTOR (REAR FOG LIGHT)

Necessary preliminary tasks:

- Remove **rear bumper trim** , see **51 12 157 REPLACING REAR BUMPER TRIM** .

If necessary, disconnect plug connection for rear fog light.

Release screws (1). Tightening torque **63 14 1AZ** , see **63 14 CLEARANCE AND SIDE LIGHTS** .

Feed reflector (2) in direction of arrow out of bumper trim (3).

Installation:

Make sure guides (5) of reflector (2) are correctly seated in associated mountings (4) of bumper trim (3).

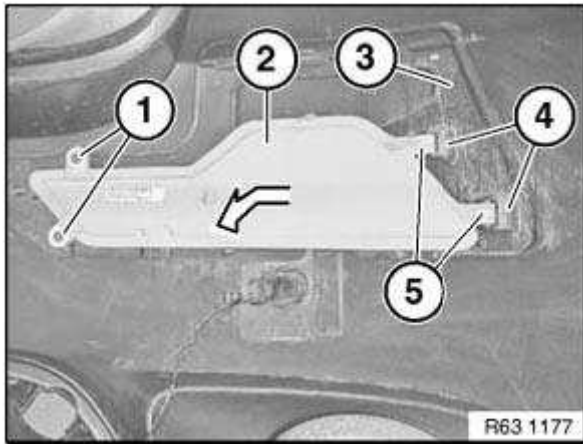


Fig. 22: Identifying Guides, Reflector And Bumper Trim
 Courtesy of BMW OF NORTH AMERICA, INC.

FOG LIGHTS, AUXILIARY LIGHTS

63 17 070 REMOVING AND INSTALLING/REPLACING LEFT FRONT FOG LAMP

Necessary preliminary tasks:

- Remove **trim grille in bumper trim (side)** , see **51 11 185 REMOVING AND INSTALLING/REPLACING GRILLE (SIDE) IN BUMPER TRIM** .

Disconnect plug connection (1).

Release screws (4) and remove fog lamp (2) from bumper trim (3). Tightening torque **63 17 1AZ** , see **63 17 FRONT FOG LAMPS, ADDITIONAL LAMPS** .

Installation:

Make sure fog lamp (2) is correctly seated on bumper trim (3).

Guide (5) of fog lamp (2) must be positioned in associated recess in bumper trim (3).

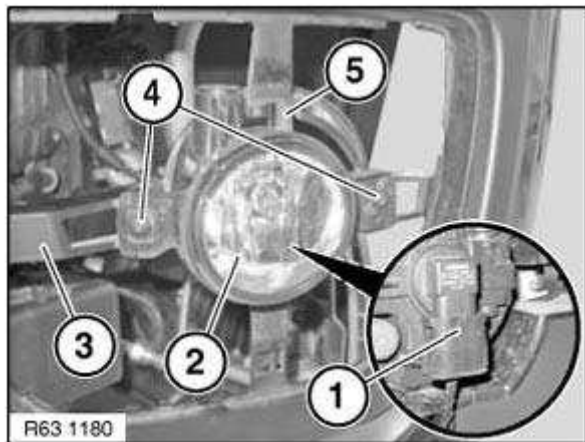


Fig. 23: Identifying Fog Lamp And Bumper Trim
 Courtesy of BMW OF NORTH AMERICA, INC.

Replacement:

If necessary, remove **bulb** , see 63 99 201 Replacing halogen bulb for left or right front fog lamp.

Adjust **front fog lights** , see 63 10 014 Adjusting fog lights.

63 17 075 REMOVING AND INSTALLING/REPLACING RIGHT FRONT FOG LAMP

Operation is described in:

Removing and installing **left front fog lamp** , see 63 17 070 Removing and installing/replacing left front fog lamp.

REAR LIGHT CLUSTER

63 21 055 REPLACING A SOCKET HOUSING FOR LEFT OR RIGHT REAR LIGHT (ON SIDE PANEL)

WARNING: Follow instructions for handling light bulbs (exterior lights , see 63 99 ... Instructions for handling light bulbs (exterior lights)).

Necessary preliminary tasks:

- Remove **flap in luggage compartment trim** , see 51 47 172 REMOVING AND INSTALLING/REPLACING FLAP IN LUGGAGE COMPARTMENT TRIM, LEFT OR RIGHT .

Turn socket housing for rear light (1) or (2) in direction of arrow and pull out of rear light (5).

Pull socket housing for rear light (3) and (4) out of rear light (5).

Remove associated **bulb(s)** , see 63 99 201 Replacing halogen bulb for left or right front fog lamp.

NOTE:

- **Socket housing, brake light (1)**
- **Socket housing, brake light (2)**
- **Socket housing, reversing light (3)**
- **Socket housing, direction indicator (4)**

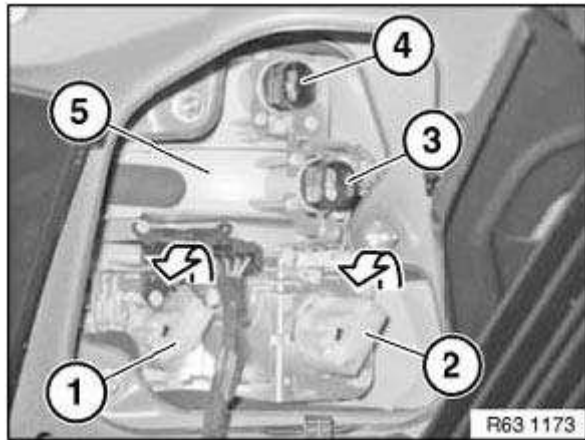


Fig. 24: Pulling Socket Housing For Rear Light
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Make sure socket housings for rear lights (1, 2, 3, 4) are correctly seated and engaged on rear light (5).

63 21 057 REPLACING A SOCKET HOUSING FOR LEFT OR RIGHT REAR LIGHT (ON REAR LID)

WARNING: Follow instructions for handling light bulbs (exterior lights , see 63 99 ... Instructions for handling light bulbs (exterior lights)).

Necessary preliminary tasks:

- Remove **left or right cover** from rear lid trim panel, see 51 49 000 REMOVING AND INSTALLING/REPLACING PANEL FOR REAR LID

NOTE: For purposes of clarity, rear lid trim panel is shown removed.

Disconnect plug connection (1).

Turn socket housing for tail light/adaptive brake light force display (2) in direction of arrow and pull out of rear light (3).

Remove **bulb** , see **63 99 201 Replacing halogen bulb for left or right front fog lamp.**

Installation:

Make sure socket housing for tail light/adaptive brake light force display (2) is correctly seated and engaged on rear light (3).

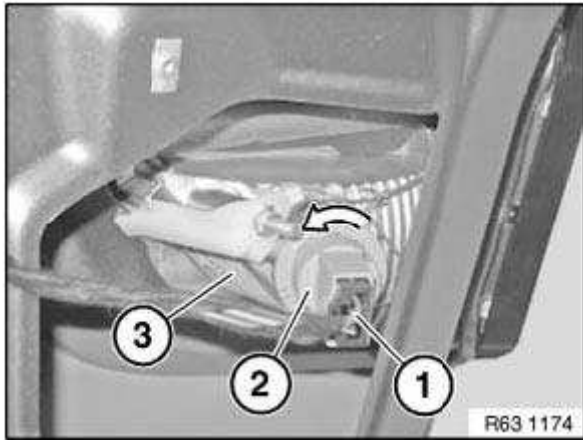


Fig. 25: Identifying Rear Light And Plug Connection
Courtesy of BMW OF NORTH AMERICA, INC.

63 21 101 REPLACING SEALING FRAME FOR LEFT OR RIGHT REAR LIGHT (ON SIDE PANEL)

Necessary preliminary tasks:

- Remove **rear light** , see **63 21 180 Removing and installing/replacing left or right rear light (in side panel).**

Detach sealing frame for rear light (1) completely from rear light (2).

Clean bonding surface and allow to dry.

Installation:

Make sure sealing frame for rear light (1) is correctly positioned and bonded all round on rear light (2).

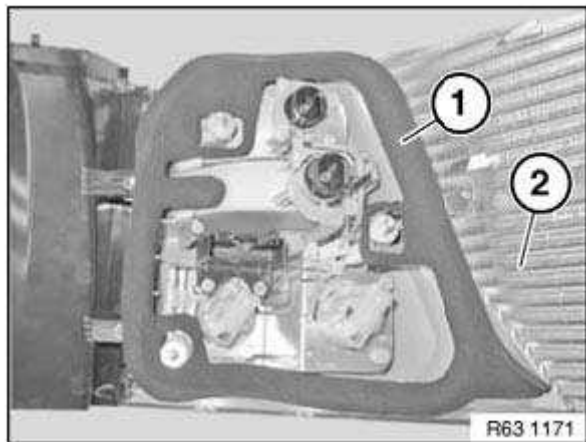


Fig. 26: Detaching Sealing Frame From Rear Light
 Courtesy of BMW OF NORTH AMERICA, INC.

63 21 104 REPLACING SEALING FRAME FOR LEFT OR RIGHT REAR LIGHT (ON REAR LID)

Necessary preliminary tasks:

- Remove **rear light** , see **63 21 180 Removing and installing/replacing left or right rear light (in side panel)**.

Detach sealing frame for rear light (1) completely from rear light (2).

Clean bonding surface and allow to dry.

Installation:

Make sure sealing frame for rear light (1) is correctly positioned and bonded all round on rear light (2).

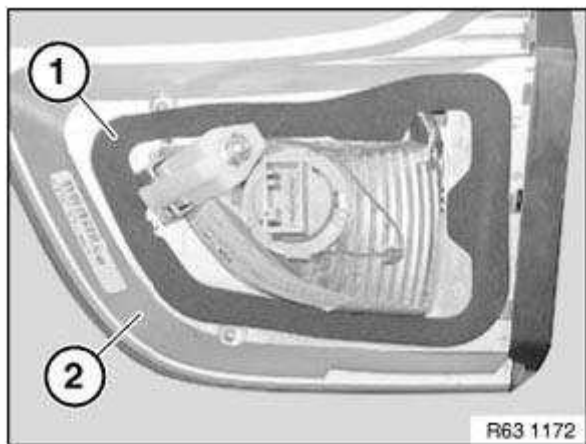


Fig. 27: Identifying Sealing Frame For Rear Light
 Courtesy of BMW OF NORTH AMERICA, INC.

63 21 180 REMOVING AND INSTALLING/REPLACING LEFT OR RIGHT REAR LIGHT (IN SIDE PANEL)

IMPORTANT: Read and comply with notes on protection against electrostatic damage (ESD protection , see 61 35 ... NOTES ON ESD PROTECTION (ELECTRO STATIC DISCHARGE)).

Necessary preliminary tasks:

- Remove **flap in luggage compartment trim** , see 51 47 172 REMOVING AND INSTALLING/REPLACING FLAP IN LUGGAGE COMPARTMENT TRIM, LEFT OR RIGHT .

Disconnect plug connection (1).

Unscrew nuts (2). Tightening torque **63 21 1AZ** , see 63 21 REAR LIGHT UNIT .

Remove rear light (3) in direction of arrow from side panel (4).

Remove **socket housing** , see 63 21 055 Replacing a socket housing for left or right rear light (on side panel).

Installation:

Check **sealing frame for rear light** for damage and replace if necessary, see 63 21 101 Replacing sealing frame for left or right rear light (on side panel).

Make sure guide (5) of rear light (3) is correctly seated on mounting (6) for side panel (4).

Make sure gap (outer) is uniform all round between rear light (3) and side panel (4).

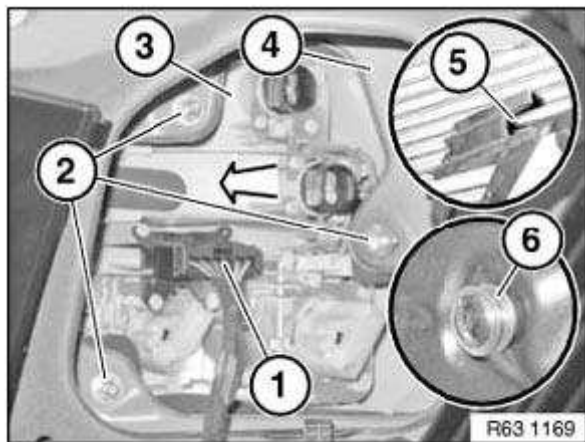


Fig. 28: Identifying Rear Light And Side Panel
Courtesy of BMW OF NORTH AMERICA, INC.

63 21 183 REMOVING AND INSTALLING/REPLACING LEFT OR RIGHT TAIL LIGHT (ON REAR

LID)

IMPORTANT: Read and comply with notes on protection against electrostatic damage (ESD protection , see 61 35 ... NOTES ON ESD PROTECTION (ELECTRO STATIC DISCHARGE)).

Necessary preliminary tasks:

- Remove **left or right cover** from rear lid trim panel, see 51 49 000 REMOVING AND INSTALLING/REPLACING PANEL FOR REAR LID

NOTE: For purposes of clarity, rear lid trim panel is shown removed.

Disconnect plug connection (1).

Release nut (2) and remove retaining bar (3) from rear light (4).

Tightening torque **63 21 3AZ** , see 63 21 REAR LIGHT UNIT .

Feed out rear light (4) in direction of arrow and remove in outward direction from rear lid (5).

Remove **socket housing** , see 63 21 055 Replacing a socket housing for left or right rear light (on side panel).

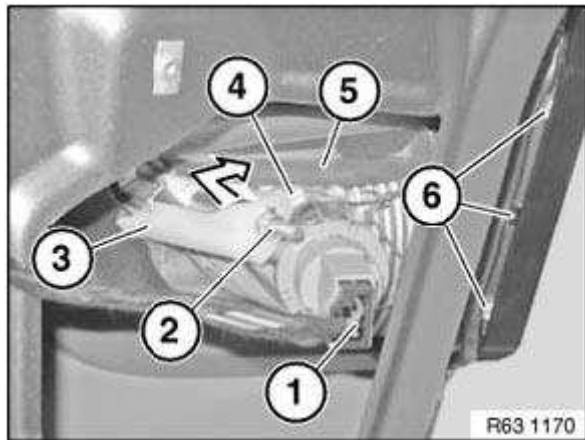


Fig. 29: Identifying Retaining Bar And Rear Light
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Check **sealing frame for rear light** for damage and replace if necessary, see 63 21 101 Replacing sealing frame for left or right rear light (on side panel).

Retaining lugs (6) of rear light (4) must not be damaged or missing.

Position retaining lugs (6) of rear light (4) exactly over side edge of rear lid (5).

Make sure retaining bar (3) is correctly seated on rear lid (5).

63 21 183 REMOVING AND REFITTING/REPLACING LEFT OR RIGHT REAR LIGHT AS FITTED FROM 03/2010 (ON TAILGATE)

Special tools required:

- 00 9 318 .

IMPORTANT: Read and comply with notes on protection against electrostatic damage (ESD protection , see 61 35 ... NOTES ON ESD PROTECTION (ELECTRO STATIC DISCHARGE)).

Necessary preliminary tasks:

- Remove luggage compartment light (on rear lid)

Unfasten plug connection (1) and disconnect. Slacken nut (2) until clamping claw (3) can be routed past tailgate (4). Tightening torque, see 63 21 3AZ in **63 21 REAR LIGHT UNIT** . Installation note: Make sure clamping claw (3) is correctly seated on tailgate (4).

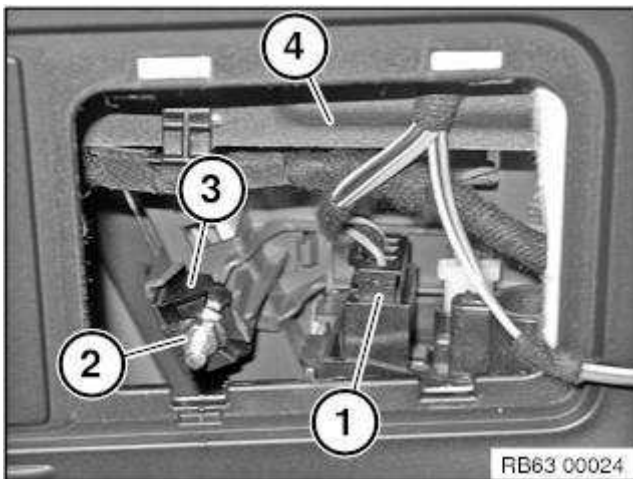


Fig. 30: Unfasten Plug Connection (1) And Disconnect
Courtesy of BMW OF NORTH AMERICA, INC.

IMPORTANT: Risk of damage! Tape off tailgate with suitable protective film (1).

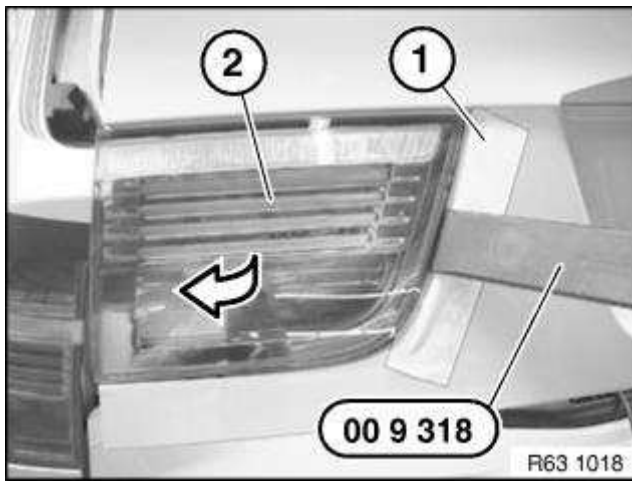


Fig. 31: Tape Off Tailgate With Suitable Protective Film (1)
Courtesy of BMW OF NORTH AMERICA, INC.

Lever out rear light (2) with special tool 00 9 318 in direction of arrow. Installation note: Make sure gap is uniform all round between rear light (2) and tailgate.

Installation note: Position tabs (1) of rear light exactly over side edge of tailgate. Make sure sealing frame (2) is correctly seated. If necessary, replace sealing frame (2).

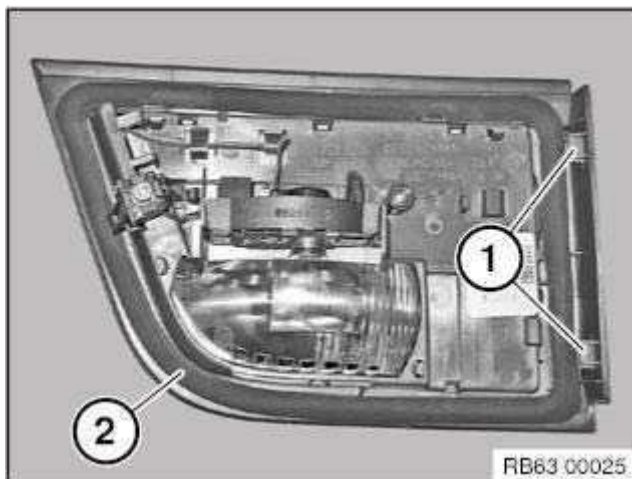


Fig. 32: Position Tabs (1) Of Rear Light Exactly Over Side Edge Of Tailgate
Courtesy of BMW OF NORTH AMERICA, INC.

Replacement: If necessary, remove bulbs.

63 21 104 REPLACING SEALING FRAME FOR LEFT OR RIGHT REAR LIGHT (ON TAILGATE) FROM VERSION 3/2010

Necessary preliminary tasks:

- Remove **rear light**.

Detach sealing frame for rear light (1) from rear light (2). Installation note: Clean bonding surface. Make sure sealing frame for rear light (1) is correctly positioned and bonded all round on rear light (2).

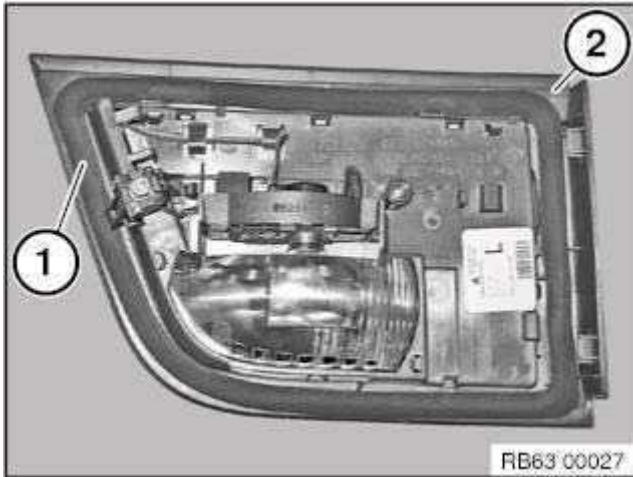


Fig. 33: Detach Sealing Frame For Rear Light (1) From Rear Light (2)
Courtesy of BMW OF NORTH AMERICA, INC.

BRAKE LIGHTS

63 25 000 REMOVING AND INSTALLING/REPLACING AUXILIARY BRAKE LIGHT

IMPORTANT: Read and comply with notes on protection against electrostatic damage (ESD protection , see 61 35 ... NOTES ON ESD PROTECTION (ELECTRO STATIC DISCHARGE)).

Necessary preliminary tasks:

- Remove **panel for rear window frame (top)** , see 51 49 002 REMOVING AND INSTALLING/REPLACING (UPPER) PANEL FOR REAR WINDOW FRAME .

Disconnect plug connection (1).

Unlock slide (2) on both sides and remove supplementary brake light (4) from rear window (3).

Installation:

Make sure supplementary brake light (4) is correctly positioned and engaged on rear window (3).

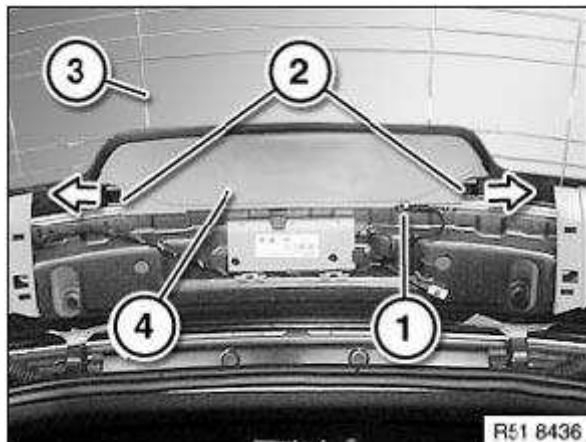


Fig. 34: Identifying Supplementary Brake Light And Rear Window
 Courtesy of BMW OF NORTH AMERICA, INC.

LICENSE PLATE LIGHTS

63 26 000 REMOVING AND INSTALLING/REPLACING LEFT OR RIGHT NUMBER/LICENSE PLATE LIGHT

Special tools required:

- 64 1 020 , see 64 1 020 RELEASE HOOK .

IMPORTANT: Follow instructions for handling light bulbs (exterior lights , see 63 99 ... Instructions for replacing light bulbs (interior lights)).

Lever number/license plate light (1) with special tool **64 1 020** in direction of arrow (A) out of rear lid (2).

Remove number/license plate light (1) in direction of arrow (B).

Disconnect plug connection underneath.

Replacement:

If necessary, remove **bulb** , see 63 99 201 Replacing halogen bulb for left or right front fog lamp.

Note **type of bulb** , see 63 26 LICENSE PLATE LIGHTS E70/E71 .

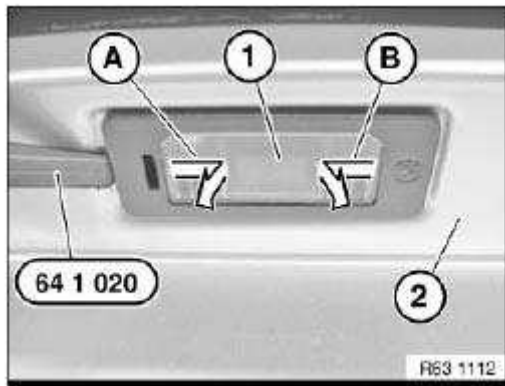
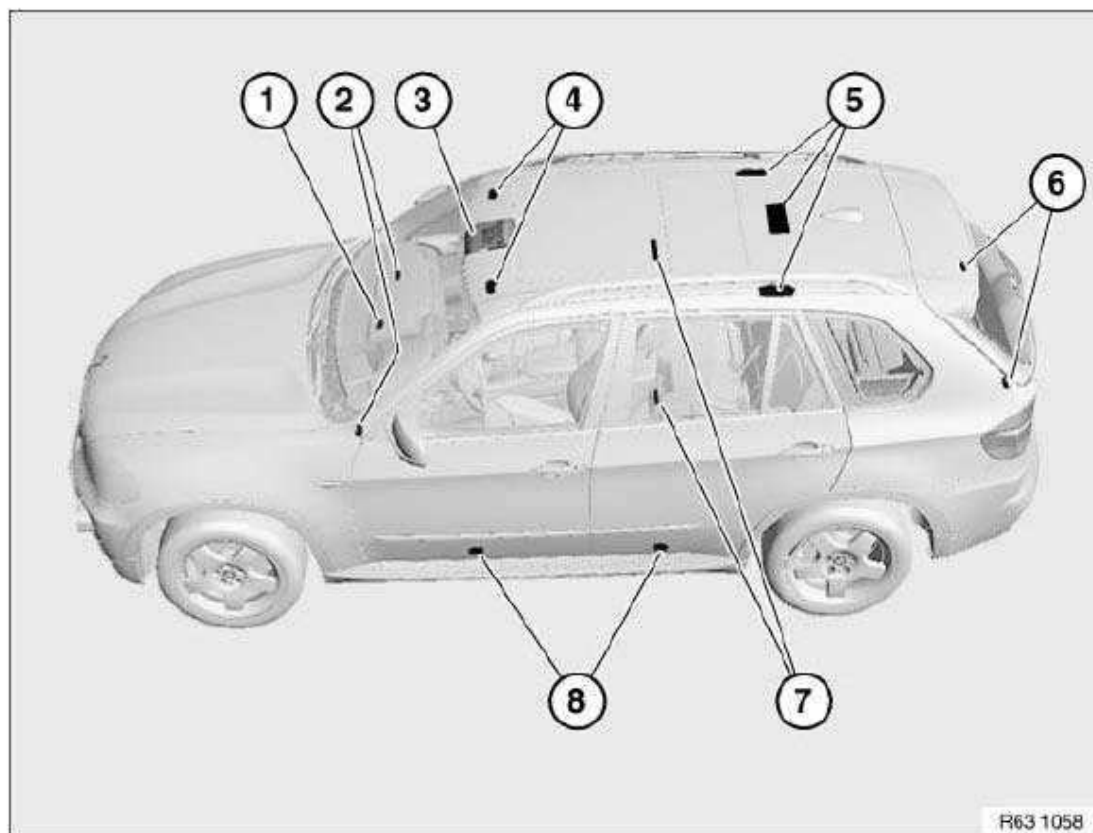


Fig. 35: Removing License Plate Light
Courtesy of BMW OF NORTH AMERICA, INC.

INTERIOR LIGHTS

63 31 ... OVERVIEW OF INTERIOR LIGHTS



- | | | | |
|---|---|---|--|
| 1 | <u>Glovebox light</u> | 5 | <u>Interior lights, side (E70) / ceiling light, rear (E71)</u> |
| 2 | <u>Footwell lights (footwell)</u> | 6 | <u>Luggage compartment lights</u> |
| 3 | <u>Front ceiling light</u> | 7 | <u>Footwell lights (on floor trim panel, rear)</u> |
| 4 | <u>Mirror lights</u> | 8 | <u>Footwell lights (door)</u> |

Fig. 36: Identifying Interior Lights Components
 Courtesy of BMW OF NORTH AMERICA, INC.

63 31 003 REMOVING AND INSTALLING/REPLACING COMPLETE CEILING LIGHT (REAR)

Special tools required:

- 00 9 317 , see [00 9 317 TRIM PANEL WEDGE](#) .

IMPORTANT: Follow instructions for handling light bulbs (interior lights , see [63 99 ... Instructions for replacing light bulbs \(interior lights\)](#)).

IMPORTANT: Ceiling light (2) and roofliner (3) must not be damaged.

Carefully release retaining clips (1) with special tool **00 9 317** and lever ceiling light (2) in direction of arrow

out of roofliner (3).

Disconnect associated plug connection and remove roof light (2).

Installation:

Retaining clips (1) and guides (4) must not be damaged or missing.

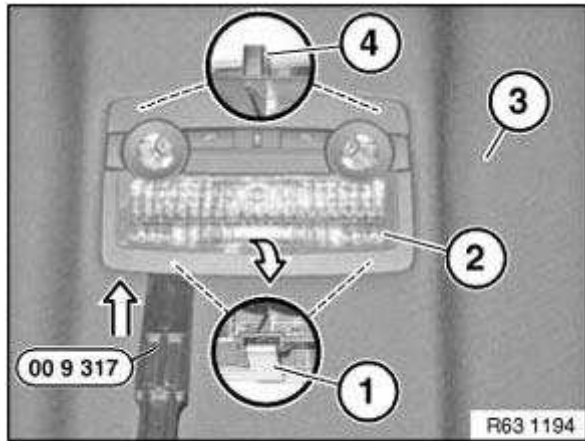


Fig. 37: Removing Roof Light, Clips And Screws
Courtesy of BMW OF NORTH AMERICA, INC.

Replacement:

If necessary, remove **bulbs** , see 63 99 432 Replacing light bulb(s) for ceiling light (rear).

63 31 020 REMOVING AND INSTALLING/REPLACING FOOTWELL LIGHT (DOOR)

IMPORTANT: Follow instructions for handling light bulbs (interior lights , see 63 99 ... Instructions for replacing light bulbs (interior lights)).

Lever footwell light (1) with suitable tool in direction of arrow out of door trim panel.

Disconnect associated plug connection and remove footwell light (1).

Replacement:

If necessary, remove **bulb** , see 63 99 201 Replacing halogen bulb for left or right front fog lamp.

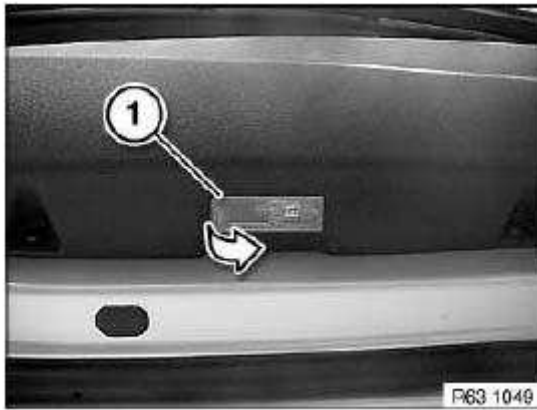


Fig. 38: Removing Footwell Light

Courtesy of BMW OF NORTH AMERICA, INC.

63 31 020 REMOVING AND INSTALLING/REPLACING FOOTWELL LIGHT (FOOTWELL)

IMPORTANT: Follow instructions for handling light bulbs (interior lights , see 63 99 ... Instructions for replacing light bulbs (interior lights)).

Lever footwell light (1) with suitable tool in direction of arrow out of footwell trim.

Disconnect associated plug connection and remove footwell light (1).

Replacement:

If necessary, remove **bulb** , see 63 99 201 Replacing halogen bulb for left or right front fog lamp.

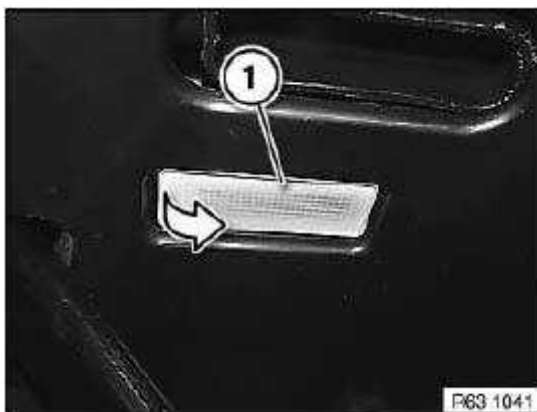


Fig. 39: Removing Footwell Light

Courtesy of BMW OF NORTH AMERICA, INC.

63 31 023 REMOVING AND INSTALLING/REPLACING FOOTWELL LIGHT (ON FLOOR TRIM PANEL, REAR)

IMPORTANT: Follow instructions for handling light bulbs (interior lights , see 63 99 ... Instructions for replacing light bulbs (interior lights)).

Lever footwell light (1) with suitable tool in direction of arrow out of floor trim panel.

Disconnect associated plug connection and remove footwell light (1).

Replacement:

If necessary, remove **bulb** , see 63 99 201 Replacing halogen bulb for left or right front fog lamp.

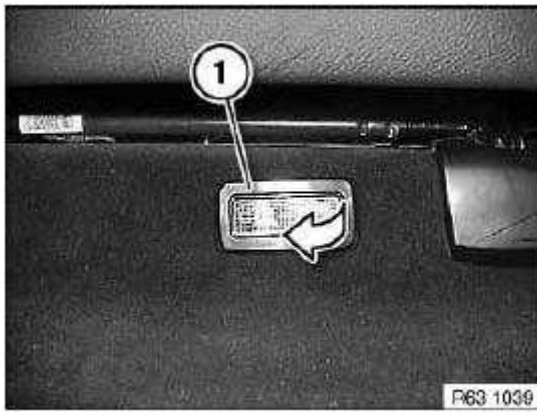


Fig. 40: Removing Footwell Light
Courtesy of BMW OF NORTH AMERICA, INC.

63 31 050 REMOVING AND INSTALLING/REPLACING MIRROR LIGHT

Special tools required:

- 00 9 340 , see 00 9 340 DISASSEMBLY AID (2 PIECES)

IMPORTANT: Follow instructions for handling light bulbs (interior lights , see 63 99 ... Instructions for replacing light bulbs (interior lights)).

Lever mirror light (1) with special tool **00 9 340** in direction of arrow out of roofliner.

Disconnect associated plug connection and remove mirror light (1).

Replacement:

If necessary, remove **bulb** , see 63 99 201 Replacing halogen bulb for left or right front fog lamp.

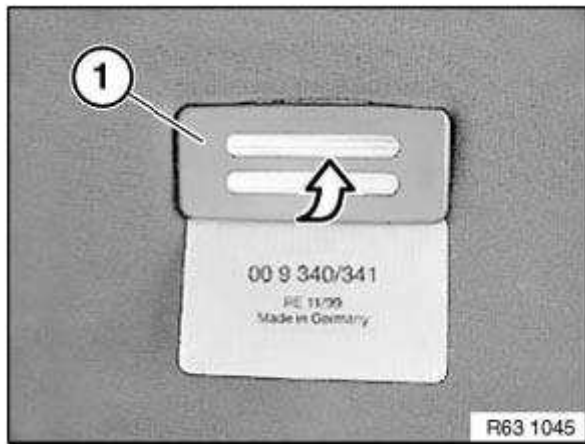


Fig. 41: Removing Mirror Light

Courtesy of BMW OF NORTH AMERICA, INC.

63 31 080 REMOVING AND INSTALLING/REPLACING (LEFT OR RIGHT) LUGGAGE COMPARTMENT LIGHT (ON REAR LID)

Special tools required:

- **64 1 020** , see **64 1 020 RELEASE HOOK** .

IMPORTANT: Follow instructions for handling light bulbs (interior lights , see **63 99 ... Instructions for replacing light bulbs (interior lights)**).

Lever out luggage compartment light (1) with special tool **64 1 020** in direction of arrow out of rear lid trim panel (2).

Disconnect plug connection (3) and remove luggage compartment light (1).

Replacement:

If necessary, remove **bulb** , see **63 99 201 Replacing halogen bulb for left or right front fog lamp**.

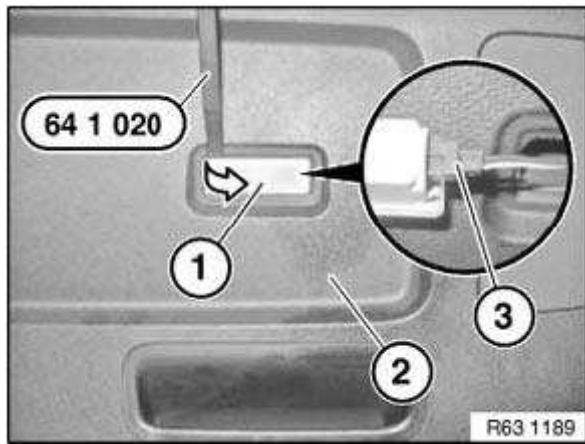


Fig. 42: Removing Luggage Compartment Light And Rear Lid Trim Panel
 Courtesy of BMW OF NORTH AMERICA, INC.

63 31 150 REMOVING AND INSTALLING/REPLACING GLOVEBOX LIGHT

IMPORTANT: Follow instructions for handling light bulbs (interior lights , see 63 99 ... Instructions for replacing light bulbs (interior lights)).

Open glovebox.

Lever glovebox light (1) with suitable tool in direction of arrow out of glovebox.

Disconnect associated plug connection and remove glovebox light (1).

Replacement:

If necessary, remove **bulb** , see 63 99 201 Replacing halogen bulb for left or right front fog lamp.

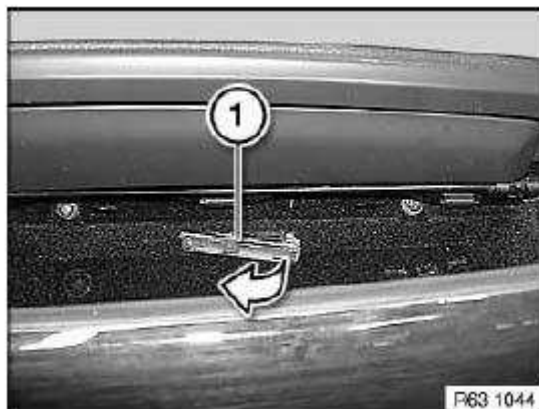


Fig. 43: Identifying Lever Glovebox Light
 Courtesy of BMW OF NORTH AMERICA, INC.

63 31 170 REMOVING AND INSTALLING/REPLACING DOOR HANDLE LIGHT ON LEFT OR RIGHT FRONT DOOR

IMPORTANT: Read and comply with notes on handling wiring harnesses and cables, see 61 00 ... NOTES ON HANDLING WIRING HARNESSSES AND CABLES .

Necessary preliminary tasks:

- Remove **sound insulation from front door** , see 51 48 060 REMOVING AND INSTALLING/REPLACING SOUND INSULATION IN LEFT OR RIGHT FRONT DOOR .
- Remove **cover on outside handle** , see 51 21 180 REMOVING AND INSTALLING/REPLACING COVER ON OUTSIDE HANDLE .

NOTE: Work is shown on the E81 by way of example. There may be differences in detail in the case of other vehicle models.

NOTE: Inner door panel partially shown transparent.

Disconnect plug connection (1).

Release all attachment points of wiring harness (2).

Raise door handle light (4) slightly and remove in outward direction from carrier for outside door handle (3).

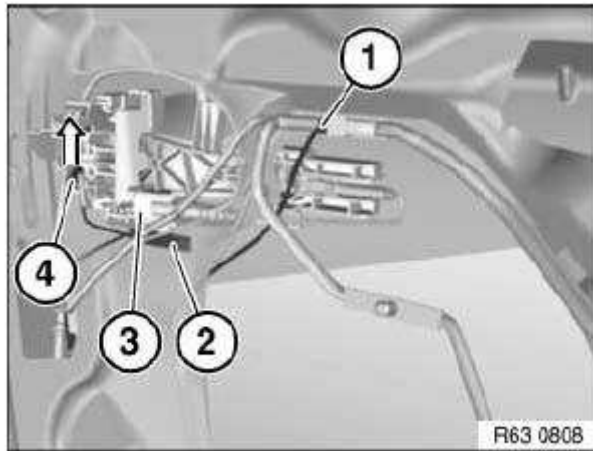


Fig. 44: Identifying Wiring Harness And Door Handle Light
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Make sure door handle light (1) is correctly positioned in area (2).

Guides (3) of door handle light (1) must be seated in carrier for outside door handle (4).

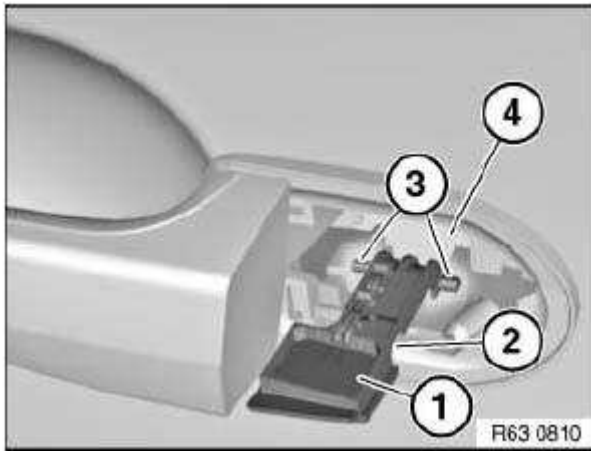


Fig. 45: Identifying Guides Of Door Handle Light
 Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Wiring harness holders (2) of wiring harness (1) must not be damaged or missing.

Replacement:

If necessary, undo loop (3) to obtain the required cable length.

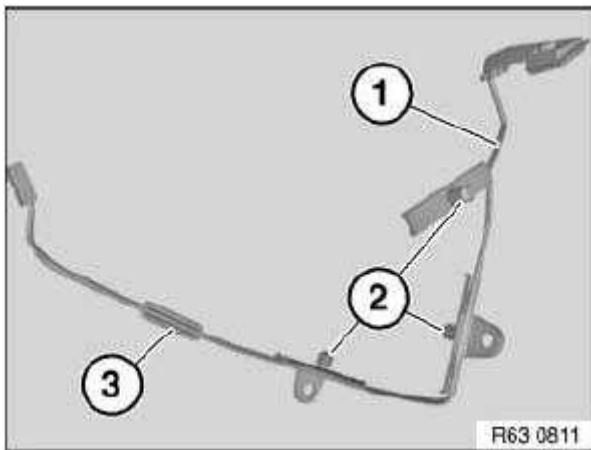


Fig. 46: Identifying Wiring Harness Holders And Wiring Harness
 Courtesy of BMW OF NORTH AMERICA, INC.

63 31 175 REMOVING AND INSTALLING/REPLACING DOOR HANDLE LIGHT ON LEFT OR RIGHT REAR DOOR

IMPORTANT: Read and comply with notes on handling wiring harnesses and cables, see 61 00 ... NOTES ON HANDLING WIRING HARNESSSES AND CABLES .

Necessary preliminary tasks:

- Remove **cover on outside handle** , see **51 21 180 REMOVING AND INSTALLING/REPLACING COVER ON OUTSIDE HANDLE** .
- **E71/E87/E90/E91:**

Remove **door lock on rear door** , see **51 22 090 REMOVING AND INSTALLING/REPLACING DOOR LOCK IN LEFT OR RIGHT REAR DOOR** .

NOTE: **Work is shown on the E87 by way of example. There may be differences in detail in the case of other vehicle models.**

NOTE: **Inner door panel partially shown transparent.**

Disconnect plug connection (1).

Release all attachment points of wiring harness (2).

Raise door handle light (4) slightly and remove in outward direction from carrier for outside door handle (3).

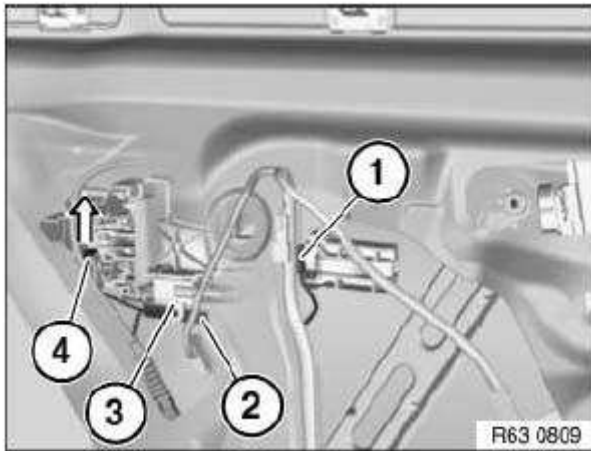


Fig. 47: Identifying Wiring Harness And Door Handle Light
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Make sure door handle light (1) is correctly positioned in area (2).

Guides (3) of door handle light (1) must be seated in carrier for outside door handle (4).

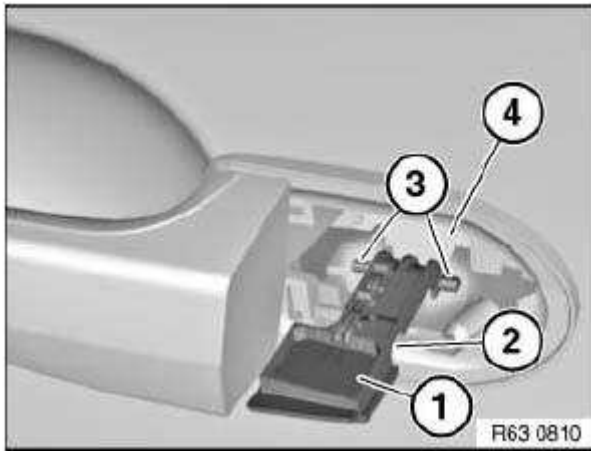


Fig. 48: Identifying Door Handle Light And Door Handle
 Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Wiring harness holders (2) of wiring harness (1) must not be damaged or missing.

Replacement:

If necessary, undo loop (3) to obtain the required cable length.

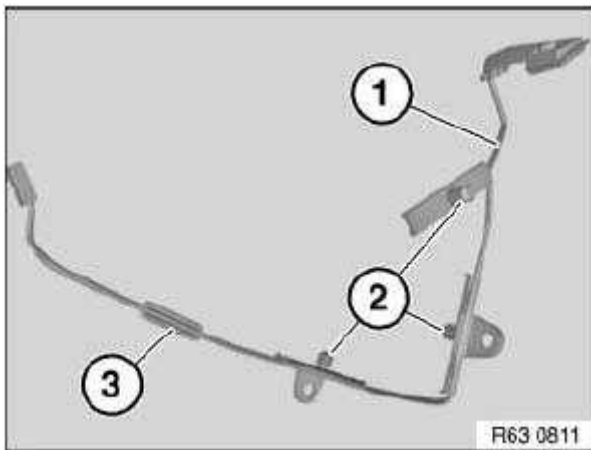


Fig. 49: Identifying Wiring Harness Holders And Wiring Harness
 Courtesy of BMW OF NORTH AMERICA, INC.

63 31 178 REMOVING AND INSTALLING/REPLACING LED FOR STORAGE BOX

Necessary preliminary tasks:

- Remove **storage box** , see **51 16 240 REMOVING AND INSTALLING/REPLACING REAR STORAGE BOX** .

Pull LED for storage box (1) in direction of arrow out of storage box (2).

Feed wiring harness (3) out of storage box (2) and remove LED for storage box (1).

Installation:

Note installation position of LED for storage box (1). Light outlet side must be positioned in direction of storage box (2).

Make sure wiring harness (3) is correctly laid on storage box (2).

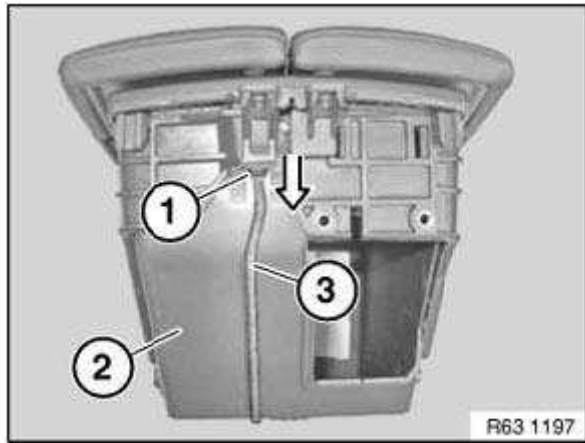


Fig. 50: Identifying Storage Box And Wiring Harness
Courtesy of BMW OF NORTH AMERICA, INC.

63 31 180 REPLACING LED FOR FRONT DOOR TRIM PANEL LIGHT

Necessary preliminary tasks:

- Remove **front door trim** , see **51 41 000 REMOVING AND INSTALLING/REPLACING FRONT LEFT OR RIGHT DOOR TRIM PANEL** .

NOTE: **Operation is shown by way of example on the E70. There may be differences in detail in the case of other vehicle models.**

Remove sheathing of wiring harness (1) in area (A).

Cut through wiring harness (1) in area (A) and remove LED for front door trim panel light (2).

Installation:

Adapt length of wiring harness of new LED for front door trim panel light.

Connect wiring harness of new LED for front door trim panel light using **butt connectors** to wiring harness (1), see **61 13 ... BUTT CONNECTOR FOR REPAIRING A PLUG CONNECTION** .

Wrap wiring harness (1) in insulating tape.

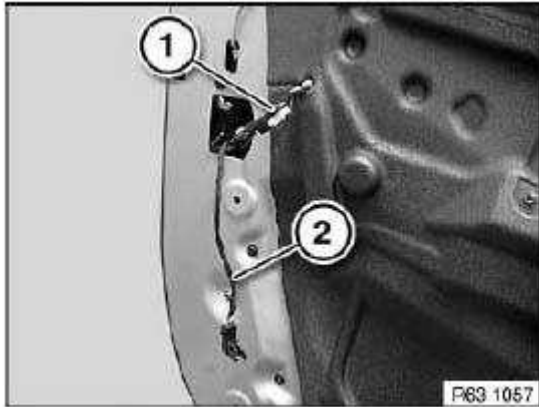


Fig. 51: Identifying Front Door Trim Panel Light And Wiring Harness
Courtesy of BMW OF NORTH AMERICA, INC.

63 31 182 REPLACING LED FOR FRONT INSIDE DOOR OPENER

Necessary preliminary tasks:

- Remove **front door trim** , see **51 41 000 REMOVING AND INSTALLING/REPLACING FRONT LEFT OR RIGHT DOOR TRIM PANEL** .

NOTE: **Operation is shown by way of example on the E70. There may be differences in detail in the case of other vehicle models.**

Remove sheathing of wiring harness (1) in area (A) and remove wiring harness holder (2).

Cut through wiring harness (1) in area (A) and remove LED for front inside door opener (3).

Installation:

Adapt length of wiring harness of new LED for front inside door opener.

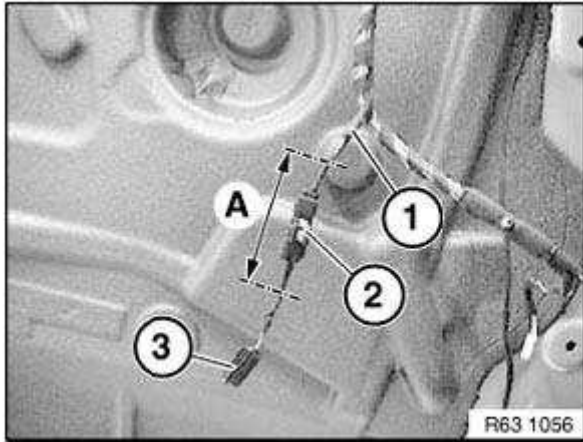


Fig. 52: Identifying Front Inside Door Opener And Wiring Harness
 Courtesy of BMW OF NORTH AMERICA, INC.

Connect wiring harness of new LED for front inside door opener using **butt connectors** to wiring harness (1), see **61 13 ... BUTT CONNECTOR FOR REPAIRING A PLUG CONNECTION** .

Wrap wiring harness (1) in insulating tape.

63 31 191 REPLACING LED FOR REAR DOOR TRIM PANEL LIGHT

Necessary preliminary tasks:

- Remove **rear door trim** , see **51 42 000 REMOVING AND INSTALLING (REPLACING) REAR LEFT OR RIGHT DOOR TRIM PANEL** .

NOTE: **Operation is shown by way of example on the E70. There may be differences in detail in the case of other vehicle models.**

Remove sheathing of wiring harness (1) in area (A).

Cut through wiring harness (1) of LED for rear door trim panel light (2) in area (A) and remove LED for rear door trim panel light (2).

Installation:

Adapt length of wiring harness of new LED for door trim panel light.

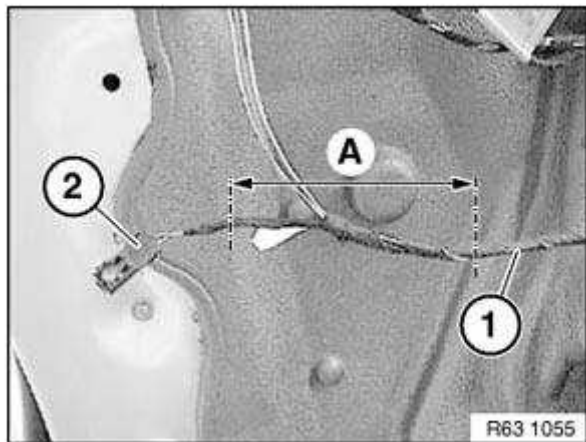


Fig. 53: Identifying Rear Door Trim Panel And Wiring Harness
 Courtesy of BMW OF NORTH AMERICA, INC.

Connect wiring harness of new LED for door trim panel light using **butt connectors** to wiring harness (1), see **61 13 ... BUTT CONNECTOR FOR REPAIRING A PLUG CONNECTION** .

Wrap wiring harness (1) in insulating tape.

63 31 193 REPLACING LED FOR REAR INSIDE DOOR OPENER

Necessary preliminary tasks:

- Remove **rear door trim** , see **51 42 000 REMOVING AND INSTALLING (REPLACING) REAR LEFT OR RIGHT DOOR TRIM PANEL** .

Detach wiring harness holder (1) and insulating tape (2) from door trim panel (3).

Unclip LED for inside door opener (4) in direction of arrow from door opener (5) and remove.

Installation:

Make sure LED for inside door opener (4) is correctly seated on door opener (5).

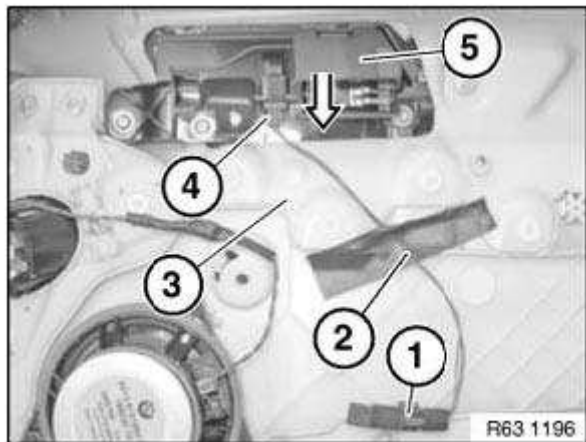


Fig. 54: Detaching Wiring Harness Holder And Door Trim Panel
 Courtesy of BMW OF NORTH AMERICA, INC.

63 31 250 REMOVING AND INSTALLING/REPLACING OPTICAL FIBRE IN FRONT LEFT OR RIGHT DOOR TRIM PANEL

WARNING: Follow instructions for handling light bulbs (interior lights , see 63 99 ... Instructions for replacing light bulbs (interior lights)).

Necessary preliminary tasks:

- Remove **front door trim** , see **51 41 000 REMOVING AND INSTALLING/REPLACING FRONT LEFT OR RIGHT DOOR TRIM PANEL** .

Release retaining clips (1) for optical fibre (2) from door trim panel (3).

Carefully feed optical fibre (2) in direction of arrow out of door trim panel (3) and remove.

Installation:

Make sure retaining clips (1) are correctly engaged on door trim panel (3).

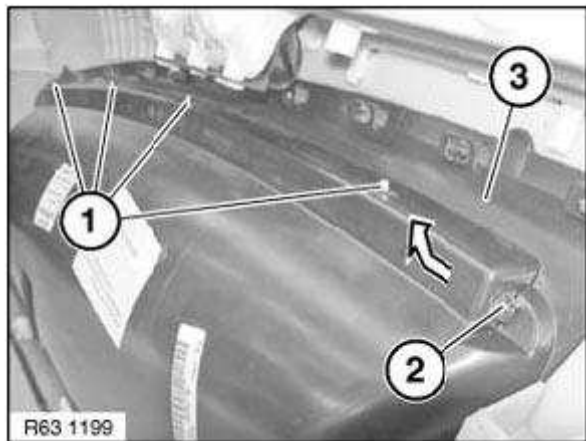


Fig. 55: Identifying Retaining Clips, Optical Fibre And Door Trim Panel
Courtesy of BMW OF NORTH AMERICA, INC.

63 31 255 REMOVING AND INSTALLING/REPLACING OPTICAL FIBRE IN REAR LEFT OR RIGHT DOOR TRIM PANEL

WARNING: Follow instructions for handling light bulbs (interior lights , see 63 99 ... Instructions for replacing light bulbs (interior lights)).

Necessary preliminary tasks:

- Remove **rear door trim panel** , see **51 42 000 REMOVING AND INSTALLING (REPLACING) REAR LEFT OR RIGHT DOOR TRIM PANEL** .

Release retaining clips (1) for optical fibre (2) from door trim panel (3).

Carefully feed optical fibre (2) in direction of arrow out of door trim panel (3) and remove.

Installation:

Make sure retaining clips (1) are correctly engaged on door trim panel (3).

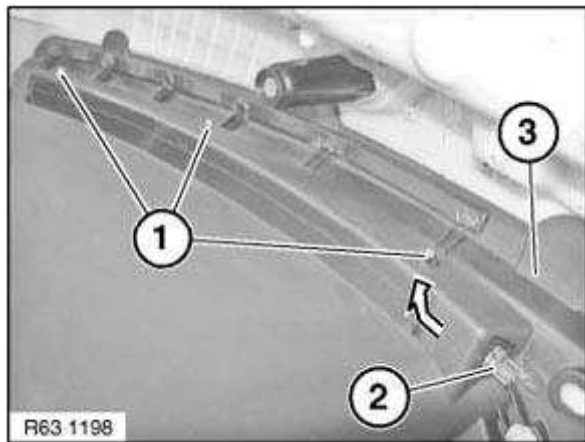


Fig. 56: Releasing Retaining Clips For Optical Fibre
 Courtesy of BMW OF NORTH AMERICA, INC.

LIGHT BULBS

63 99 ... INSTRUCTIONS FOR HANDLING LIGHT BULBS (EXTERIOR LIGHTS)

WARNING: Xenon headlights: Danger to life due to high voltage!
 Work on the entire xenon lighting system (ignition unit, control unit and lamp) may only be carried out by specialist personnel.

WARNING: Halogen lamps are under pressure:
 To avoid injury, wear protective goggles and gloves.

IMPORTANT: To avoid short circuits, disconnect bulbs from the power supply before replacing them (lighting system and ignition off).

Do not touch the glass bulbs in new lights bulbs as even the slightest contamination will burn in and reduce bulb service life.

Only touch light bulbs with clean gloves or a clean cloth.

Do not expose light bulbs to mechanical vibrations.

Use only recommended light bulbs.

Follow the light bulb manufacturer's instructions without fail.

63 99 ... INSTRUCTIONS FOR REPLACING LIGHT BULBS (INTERIOR LIGHTS)

IMPORTANT: To avoid short circuits, disconnect bulbs from the power supply before replacing them (lighting system and ignition off).

Do not touch the glass bulbs in new lights bulbs as even the slightest contamination will burn in and reduce bulb service life.

Only touch light bulbs with clean gloves or a clean cloth.

Do not expose light bulbs to mechanical vibrations.

Use only recommended light bulbs.

Follow the light bulb manufacturer's instructions without fail.

63 99 076 REPLACING BULB FOR LEFT (OR RIGHT) XENON HEADLIGHT (WITH IGNITION UNIT)

Operation is described in:

Replacing **ignition unit for left xenon headlight** , see **63 12 870 Replacing ignition unit for left xenon headlight (with xenon bulb).**

63 99 145 REPLACING BULB FOR LEFT (OR RIGHT) SIDE LIGHTS (XENON HEADLIGHT)

WARNING: Version with xenon headlights: Danger to life due to high voltage!
Therefore, before removing, disconnect all components from the power supply (lighting system and ignition off).
Work on the entire xenon lighting system (control unit, ignition unit with bulb) may only be carried out by specialist personnel.
Follow instructions for handling light bulbs (exterior lights , see **63 99 ... Instructions for replacing light bulbs (interior lights).**

Turn cover (1) in direction of arrow and remove from headlight.

Installation:

Make sure seal is correctly seated on cover (1) and cover (1) is correctly seated on headlight.

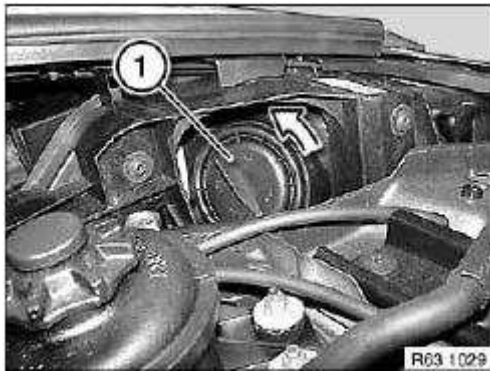


Fig. 57: Identifying Headlight Cover

Courtesy of BMW OF NORTH AMERICA, INC.

Turn bulb for side light (2) in direction of arrow and remove from headlight (3).

Disconnect plug connection (1) and remove side light bulb (2).

Installation:

Make sure bulb for side light (2) is correctly seated and engaged on headlight (3).

Note **type of bulb** , see 63 12 HEADLIGHTS, HEADLIGHT ASSEMBLY E71 .

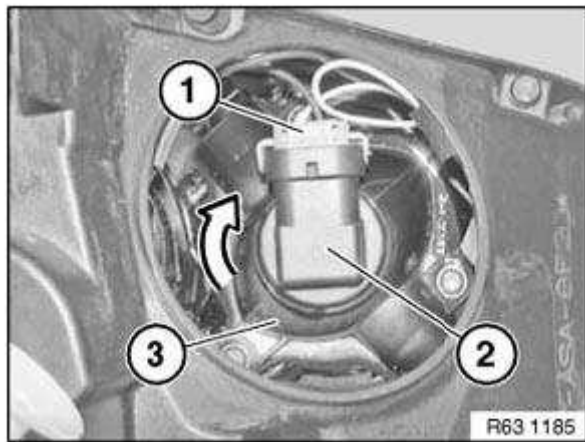


Fig. 58: Turning Bulb For Side Light

Courtesy of BMW OF NORTH AMERICA, INC.

63 99 201 REPLACING HALOGEN BULB FOR LEFT OR RIGHT FRONT FOG LAMP

WARNING: Follow instructions for handling light bulbs (exterior lights , see 63 99 ... Instructions for replacing light bulbs (interior lights)).

Necessary preliminary tasks:

- Remove **trim grille in bumper trim (side)** , see 51 11 185 REMOVING AND INSTALLING/REPLACING GRILLE (SIDE) IN BUMPER TRIM .

Disconnect plug connection (1).

Turn halogen bulb for fog lamp (2) in direction of arrow and remove from fog lamp (3).

Installation:

Note **type of bulb** , see Fog lights, auxiliary lights.

Make sure sealing ring (4) is correctly seated on halogen fog lamp bulb (2).

Make sure halogen fog lamp bulb (2) is correctly engaged on fog lamp (3).

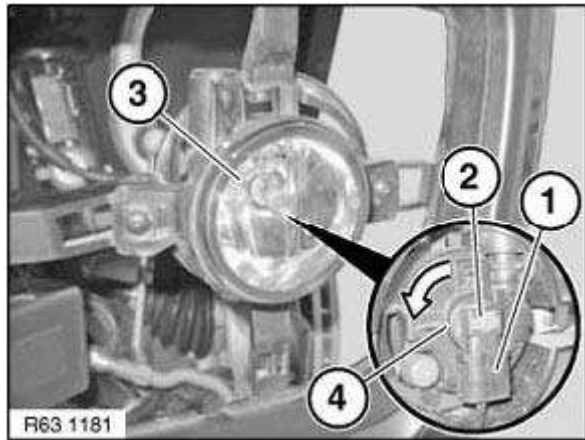


Fig. 59: Turning Halogen Bulb For Fog Lamp
Courtesy of BMW OF NORTH AMERICA, INC.

63 99 273 REPLACING BULB FOR LEFT (OR RIGHT) FRONT TURN INDICATOR

WARNING: Follow instructions for handling light bulbs (exterior lights , see 63 99 ... Instructions for replacing light bulbs (interior lights)).

Turn direction indicator bulb holder (1) in direction of arrow and feed out of headlight.

Installation:

Make sure direction indicator bulb holder (1) is correctly engaged on headlight.

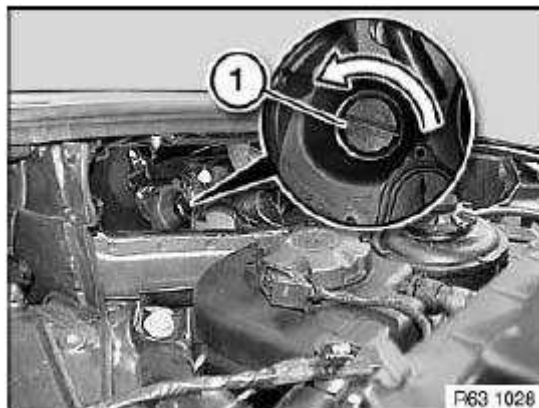


Fig. 60: Identifying Indicator Bulb Holder
Courtesy of BMW OF NORTH AMERICA, INC.

Press in clamping elements (1), twist bulb for front direction indicator (2) in direction of arrow and remove from direction indicator bulb holder (3).

Installation:

Note **type of bulb** , see **63 13 TURN SIGNALS E70/E71** .

Make sure bulb for front direction indicator (2) and sealing ring are correctly seated on direction indicator bulb holder (3).

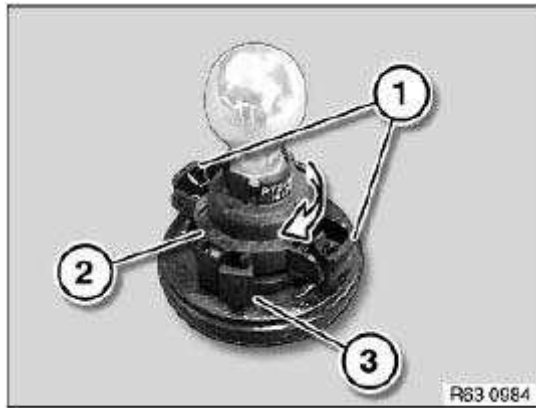


Fig. 61: Pressing Clamping Elements

Courtesy of BMW OF NORTH AMERICA, INC.

63 99 312 REPLACING BULB(S) FOR LEFT OR RIGHT REAR LIGHT (ON REAR LID/USA)

WARNING: Follow instructions for handling light bulbs (exterior lights , see **63 99 ... Instructions for replacing light bulbs (interior lights)**).

Necessary preliminary tasks:

- Remove **socket housing for rear light** , see **63 21 057 Replacing a socket housing for left or right rear light (on rear lid)**.

Press bulb (1) in direction of socket housing for tail light/brake force display (2), turn in direction of arrow and remove from socket housing for tail light/adaptive brake light force display (2).

Installation:

Note **type of bulb** , see **63 21 REAR LIGHT UNIT E71** .

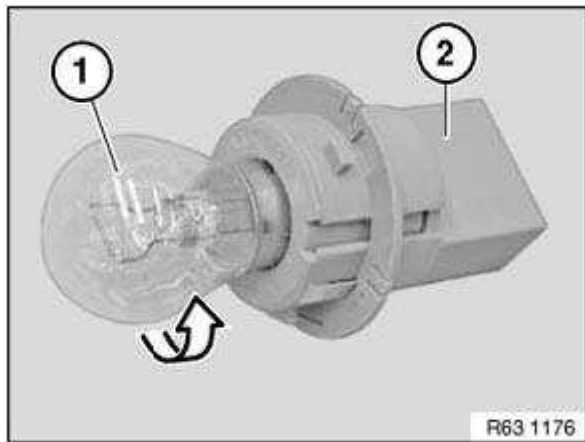


Fig. 62: Pressing Bulb Of Socket Housing
Courtesy of BMW OF NORTH AMERICA, INC.

63 99 315 REPLACING BULB(S) FOR LEFT OR RIGHT REAR LIGHT (ON SIDE PANEL)

WARNING: Follow instructions for handling light bulbs (exterior lights , see [63 99 ... Instructions for replacing light bulbs \(interior lights\)](#)).

Necessary preliminary tasks:

- Remove **socket housing for rear light** , see [63 21 057 Replacing a socket housing for left or right rear light \(on rear lid\)](#).

Press bulb (1) in direction of socket housing for rear light (4), turn in direction of arrow and remove from socket housing for rear light (4).

Press bulb (2) in direction of socket housing for rear light (3), turn in direction of arrow and remove from socket housing for rear light (3).

Installation:

Note **type of bulb** , see [63 21 REAR LIGHT UNIT E71](#) .

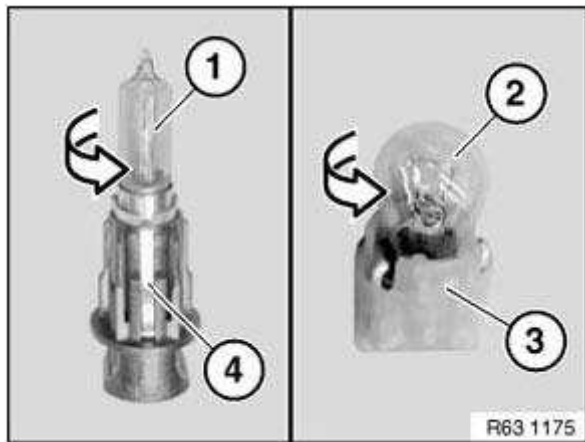


Fig. 63: Pressing Bulb For Rear Light
 Courtesy of BMW OF NORTH AMERICA, INC.

63 99 401 REPLACING BULB FOR LEFT OR RIGHT NUMBER/LICENSE PLATE LIGHT

WARNING: Follow instructions for handling light bulbs (exterior lights , see 63 99 ... Instructions for replacing light bulbs (interior lights)).

Necessary preliminary tasks:

- Remove **license plate light** , see 63 26 000 Removing and installing/replacing left or right number/license plate light.

Release retaining bars (1) in direction of arrow from number/license plate light (3).

Feed heat shield (2) in direction of arrow out of number/license plate light (3) and remove.

Installation:

Make sure heat shield (2) is correctly seated and engaged on number/license plate light (3).

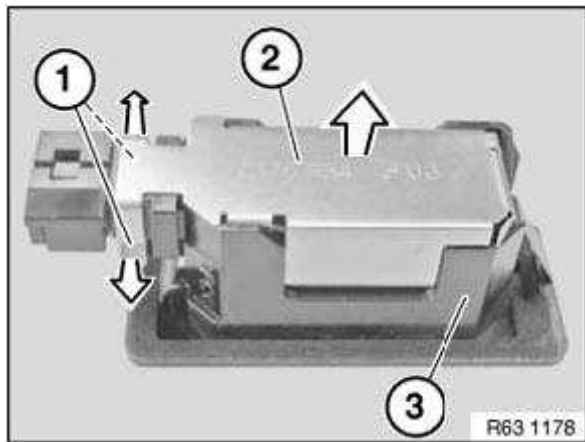


Fig. 64: Identifying Heat Shield And License Plate Light
 Courtesy of BMW OF NORTH AMERICA, INC.

Spread bow contacts (1) outwards and remove bulb for license plate light (2).

Installation:

Note **type of bulb** , see **63 26 LICENSE PLATE LIGHTS E70/E71** .

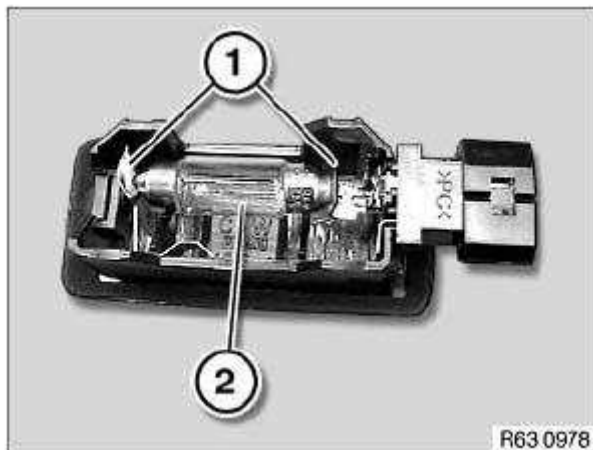


Fig. 65: Identifying License Plate Light
 Courtesy of BMW OF NORTH AMERICA, INC.

63 99 431 REPLACING LIGHT BULB(S) FOR CEILING LIGHT (FRONT)

WARNING: Follow instructions for handling light bulbs (interior lights , see **63 99 ... Instructions for replacing light bulbs (interior lights)**).

Necessary preliminary tasks:

- Remove **roof switch cluster** , see **61 31 043 REMOVING AND INSTALLING OR REPLACING**

ROOF SWITCH CLUSTER .

Turn bulb holder(s) (1) in direction of arrow and feed out of roof switch cluster.

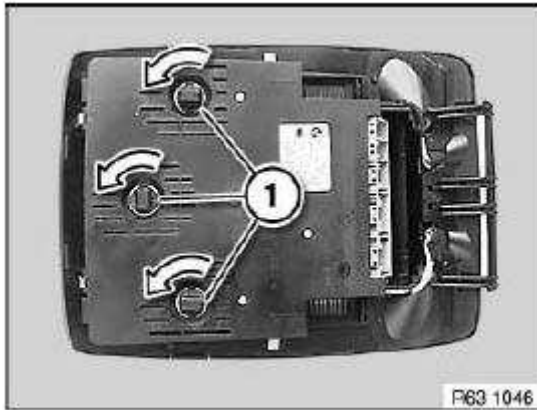


Fig. 66: Turning Bulb Holder

Courtesy of BMW OF NORTH AMERICA, INC.

Remove bulb (1) from bulb holder (2) in direction of arrow.

Installation:

Note **type of bulb** , see **63 13 TURN SIGNALS E70/E71 .**

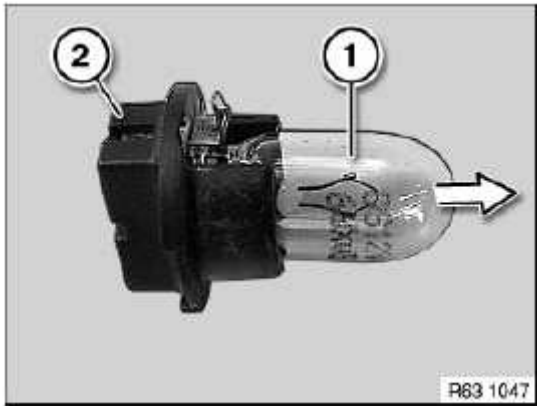


Fig. 67: Removing Bulb From Bulb Holder

Courtesy of BMW OF NORTH AMERICA, INC.

63 99 432 REPLACING LIGHT BULB(S) FOR CEILING LIGHT (REAR)

WARNING: Follow instructions for handling light bulbs (interior lights , see **63 99 ... Instructions for replacing light bulbs (interior lights)**).

Necessary preliminary tasks:

- Remove **rear ceiling light** , see 63 31 003 Removing and installing/replacing complete ceiling light (rear)

Turn bulb holder(s) (1) in direction of arrow and remove from ceiling light (2).

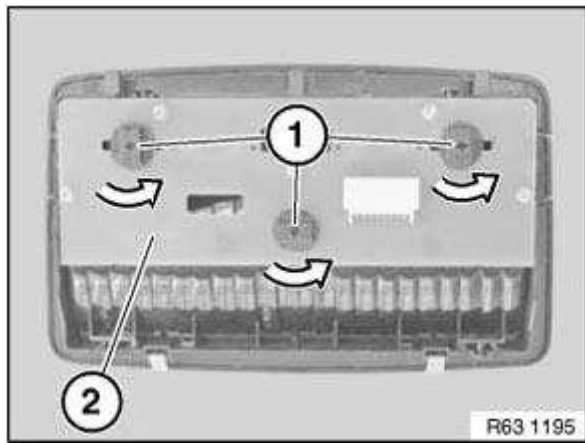


Fig. 68: Turning Bulb Holder

Courtesy of BMW OF NORTH AMERICA, INC.

Pull bulb for ceiling light (1) out of bulb holder (2).

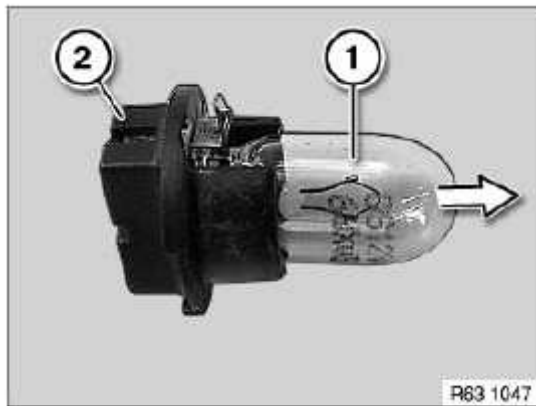


Fig. 69: Pulling Bulb For Ceiling Light

Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Note **type of bulb** , see 63 31 INTERIOR LIGHTS E71 .

63 99 437 REPLACING LIGHT BULB FOR FOOTWELL LIGHT

WARNING: Follow instructions for handling light bulbs (interior lights , see 63 99 ... Instructions for replacing light bulbs (interior lights)).

Necessary preliminary tasks:

- Remove **footwell light** , see **63 31 020 Removing and installing/replacing footwell light (footwell)** or **63 31 020 Removing and installing/replacing footwell light (door)** or **63 31 023 Removing and installing/replacing footwell light (on floor trim panel, rear)**.

Version A:

Turn bulb holder (1) in direction of arrow and feed out of footwell light (2).

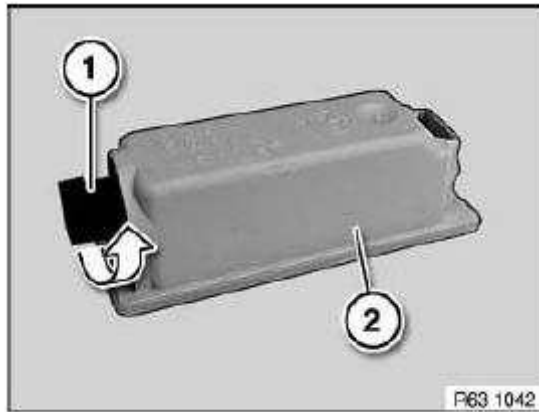


Fig. 70: Turning Bulb Holder Of Footwell Light
Courtesy of BMW OF NORTH AMERICA, INC.

Remove bulb (1) from bulb holder (2) in direction of arrow.

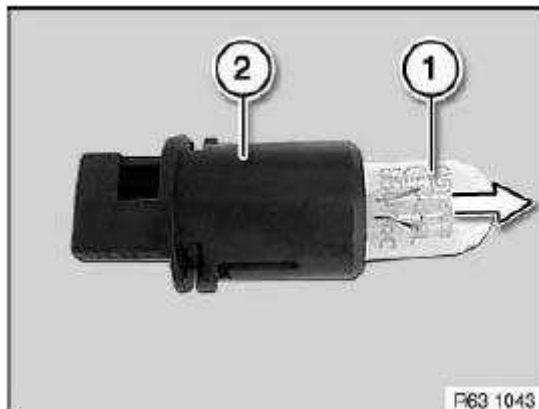


Fig. 71: Removing Bulb From Bulb Holder
Courtesy of BMW OF NORTH AMERICA, INC.

Version B:

Pull bulb (1) in direction of arrow out of bulb holder.

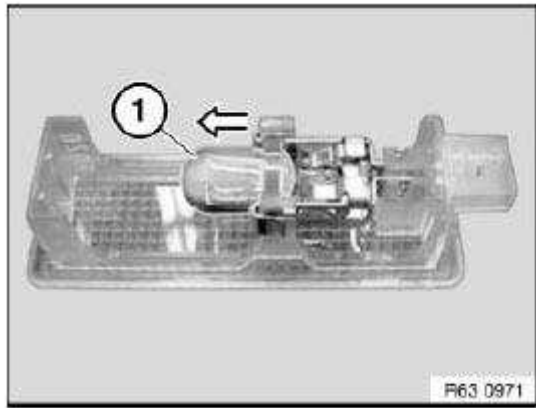


Fig. 72: Pulling Bulb Of Bulb Holder
 Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Note **type of bulb** , see 63 13 TURN SIGNALS E70/E71 .

63 99 445 REPLACING BULB(S) FOR MIRROR LIGHT

WARNING: Follow instructions for handling light bulbs (interior lights , see 63 99 ... Instructions for replacing light bulbs (interior lights)).

Necessary preliminary tasks:

- Remove **mirror light** , see 63 31 050 Removing and installing/replacing mirror light

Expand bow contacts (1) and remove bulb for mirror light.

Installation:

Note **type of bulb** , see 63 31 INTERIOR LIGHTS E71 .

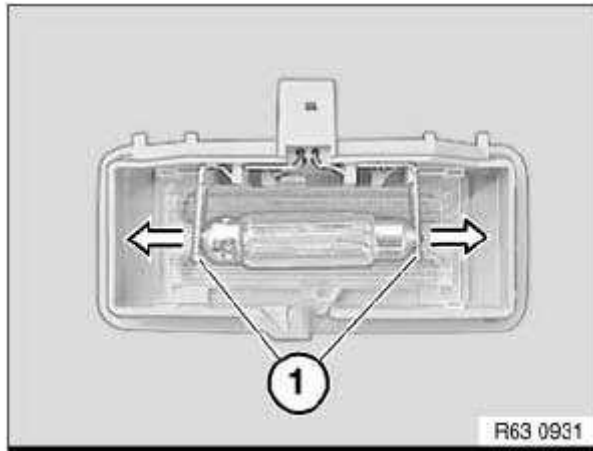


Fig. 73: Removing Bulb For Mirror Light
 Courtesy of BMW OF NORTH AMERICA, INC.

63 99 451 REPLACING LIGHT BULB FOR LUGGAGE COMPARTMENT LIGHT (ON REAR LID)

WARNING: Follow instructions for handling light bulbs (interior lights , see 63 99 ... Instructions for replacing light bulbs (interior lights)).

Necessary preliminary tasks:

- Remove **luggage compartment light** , see 63 31 080 Removing and installing/replacing (left or right) luggage compartment light (on rear lid).

Turn bulb holder (1) in direction of arrow and remove from luggage compartment light (2).

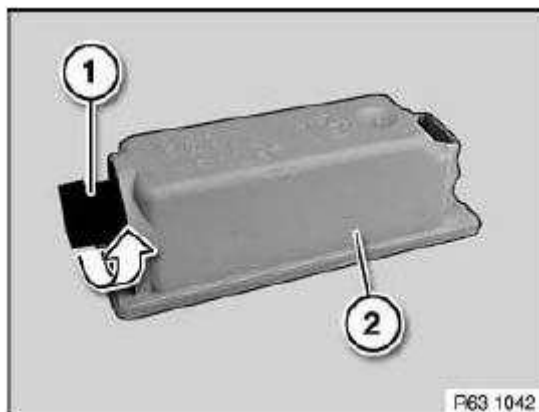


Fig. 74: Turning Bulb Holder And Luggage Compartment Light
 Courtesy of BMW OF NORTH AMERICA, INC.

Turn bulb for luggage compartment light (1) in direction of arrow and pull out of bulb holder (2).

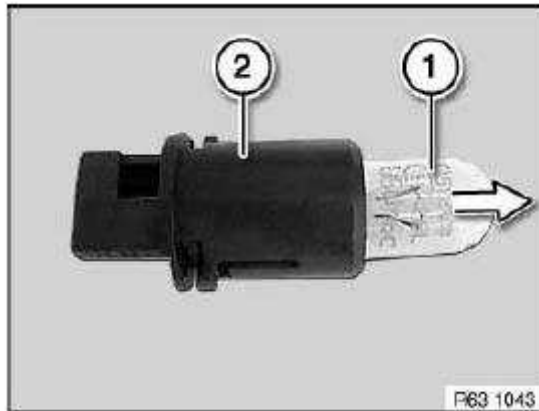


Fig. 75: Turning Bulb For Luggage Compartment Light
Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Make sure bulb holder is correctly seated and engaged in luggage compartment light.

Note **type of bulb** , see **63 31 INTERIOR LIGHTS E71** .

63 99 461 REPLACING BULB FOR GLOVEBOX LIGHT

WARNING: Follow instructions for handling light bulbs (interior lights , see **63 99 ... Instructions for replacing light bulbs (interior lights)**).

Necessary preliminary tasks:

- Remove **glovebox light** , see **63 31 150 Removing and installing/replacing glovebox light.**

Pull bulb (1) in direction of arrow out of glovebox light.

Installation:

Note **type of bulb** , see **63 31 INTERIOR LIGHTS E71** .

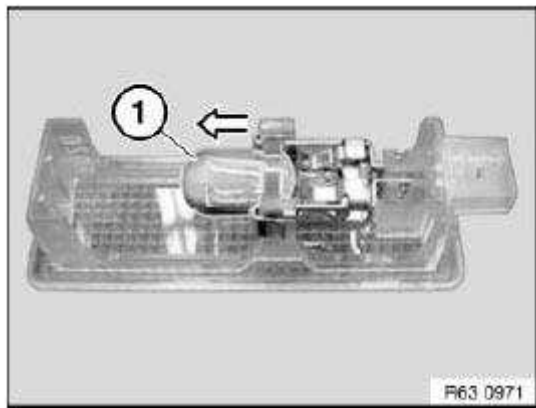


Fig. 76: Pulling Bulb Of Glovebox Light
Courtesy of BMW OF NORTH AMERICA, INC.

ACCESSORIES & EQUIPMENT

Lights - Technical Data

LAMP SETTINGS

63 10 ADJUSTMENT OF LIGHTS E70/E71

ADJUSTMENT OF LIGHTS E70/E71-SPECIFICATION

Low-beam dip unit		e = 11
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HEADLIGHTS

63 12 HEADLIGHTS, HEADLIGHT ASSEMBLY E71

HEADLIGHTS, HEADLIGHT ASSEMBLY E71-SPECIFICATION

Light bulb - driving light (xenon)	Type	Xenon bulb with ignition unit D1S
Light bulb - side lights (xenon)	Type	H8 12V 35W
Light bulb - turning lights	Type	Longlife/H11 12V 55W

TURN SIGNAL INDICATOR

63 13 TURN SIGNALS E70/E71

TURN SIGNALS E70/E71-SPECIFICATION

Light bulb - turn signa, front EUR	Type	PY24W 12V 24W
Light bulb - turn signal, front US	Type	PY24W 12V 24W
Light bulb - auxiliary turn signal EUR	Type	2 LEDs
Light bulb - auxiliary turn signal US	Type	2 LEDs

FOG LIGHTS, AUXILIARY LIGHTS

63 17 FRONT FOG LAMPS, ADDITIONAL LAMPS E70/E71

FRONT FOG LAMPS, ADDITIONAL LAMPS E70/E71-SPECIFICATION

Bulb, fog lamp	Type	Longlife/H11 12V 55W
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REAR LIGHT CLUSTER

63 21 REAR LIGHT UNIT E71

REAR LIGHT UNIT E71-SPECIFICATION

Light bulb - tail light in side panel	Type	4 LEDs

Light bulb - tail light in rear lid	Type	4 LEDs
Light bulb - fog warning lamp	Type	H21W 12V 21W
Light bulb - backup light	Type	H21W 12V 21W
Light bulb - turn signal	Type	H21W 12V 21W
Light bulb - brake light	Type	P21W 12V 21W
Bulb - adaptive brake light	Type	P21W 12V 21W (USA)
Light bulb - 3rd brake light	Type	28 LEDs

LICENSE PLATE LIGHTS

63 26 LICENSE PLATE LIGHTS E70/E71

LICENSE PLATE LIGHTS E70/E71-SPECIFICATION

Festoon	Type	C5W 12V 5W
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INTERIOR LIGHTS

63 31 INTERIOR LIGHTS E71

INTERIOR LIGHTS E71-SPECIFICATION

Light bulb - interior light, front	Type	W6W 12V 6W xenon
Light bulb - interior reading light, front	Type	W6W 12V 6W xenon
Light bulb - interior light, rear	Type	W6W 12V 6W xenon
Light bulb - interior reading light, rear	Type	W6W 12V 6W xenon
Light bulb - mirror light	Type	C10W 12V 10W
Light bulb - luggage compartment light	Type	W5W 12V 5W
Light bulb - glovebox	Type	W5W 12V 5W
Light bulb - footwell, front	Type	W5W 12V 5W
Light bulb - footwell, rear	Type	W5W 12V 5W
Light bulb - door cutout	Type	W5W 12V 5W

ACCESSORIES & EQUIPMENT

Lights - Tightening Torques

HEADLIGHTS

63 12 HEADLIGHTS

HEADLIGHTS-TIGHTENING TORQUE SPECIFICATIONS

	Type	Thread	Tightening specification	Measure
1AZ Headlight to side panel, front	E70/E71			4.0 Nm
2AZ Module carrier, bottom, to headlight	E70/E71			4.0 Nm
3AZ Xenon control unit to headlight	E70/E71			1.7 Nm
4AZ Drive/electronics box, adaptive headlight to headlight	E70/E71			1.7 Nm

CLEARANCE AND SIDE LIGHTS

63 14 CLEARANCE AND SIDE LIGHTS

CLEARANCE AND SIDE LIGHTS-TIGHTENING TORQUE SPECIFICATIONS

	Type	Thread	Tightening specification	Measure
1AZ Reflector to bumper trim	E71			2.5 Nm ± 0.5 Nm

FOG LIGHTS, AUXILIARY

63 17 FRONT FOG LAMPS, ADDITIONAL LAMPS

FRONT FOG LAMPS, ADDITIONAL LAMPS-TIGHTENING TORQUE SPECIFICATIONS

	Type	Thread	Tightening specification	Measure
1AZ Fog lamp to bumper trim	E60/E61/E63/E64			2.5 Nm ± 0.3 Nm
	E71			2.0 Nm ± 0.5 Nm
	E81/E82/E87/E88			2.2 Nm
	E83			2.5 Nm ± 0.5 Nm

REAR LIGHT CLUSTER BRAKE LIGHTS

63 21 REAR LIGHT UNIT

REAR LIGHT UNIT-TIGHTENING TORQUE SPECIFICATIONS

	Type	Thread	Tightening specification	Measure

1AZ Retaining nuts, rear light	E60/E61/E85/E86/E90/E91/E92/E93		See Repair Instruction	2.5 Nm
	E63/E64/E70/E71			2.5 Nm
	E81/E82/E87/E88		See Repair Instruction	2.8 Nm
	E83		See Repair Instruction	4.0 Nm ± 0.5 Nm
2AZ Retaining screws, rear light	E63/E64			1.5 Nm
3AZ Retaining clip (clamping claw), rear light	E92/E93			4.0 Nm
	E70/E71			2.5 Nm
4AZ Auxiliary brake light to carrier	E81/E87			2.3 Nm
5AZ Additional brake light to rear spoiler	E83			2.5 Nm ± 0.5 Nm