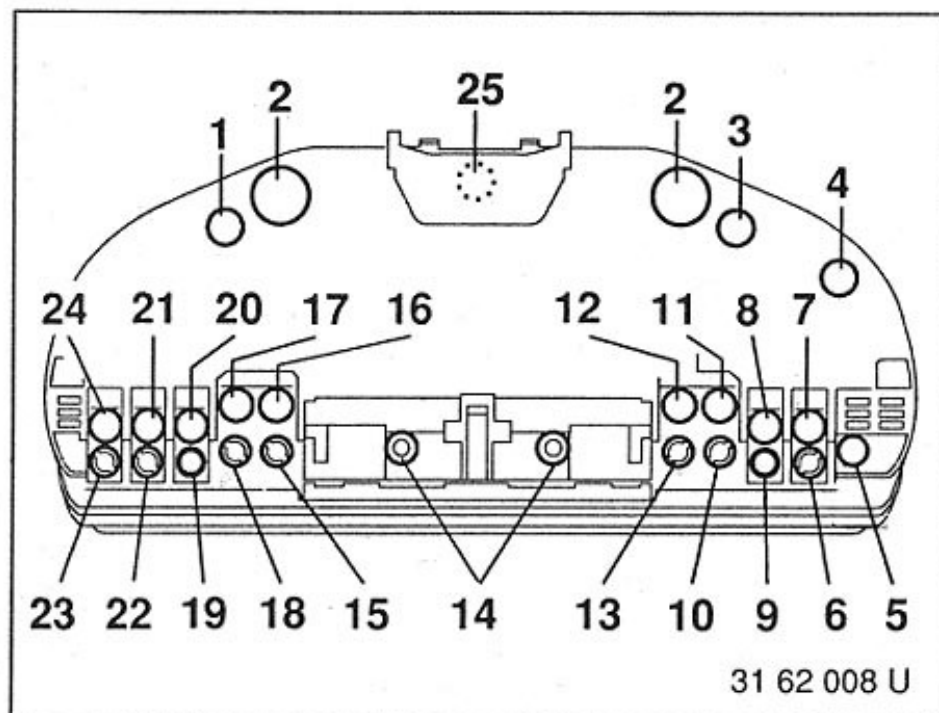


63 Lights

63 10 004	Headlights (pop-up headlights) – adjust	63-	10/1
508	Basic position of headlight inserts (pop-up headlights), left or right – adjust	63-	10/2
63 11 100	Front light cluster, left or right – remove and install	63-	11/1
63 12 033	Lens (for pop-up headlights), left or right – remove and install or replace	63-	12/1
090	Pop-up headlights, complete unit, left or right – remove and install or replace	63-	12/2
200	Actuator drive for pop-up headlights, left or right – replace	63-	12/3
400	Insert for headlights, left or right – remove and install/replace	63-	12/5
460	Pop-up headlights with carrier plate, complete unit, left or right – remove and install	63-	12/6
600	Full beam headlight insert, left or right – remove and install/replace	63-	12/7
610	Low-beam headlight insert (pop-up headlights), left or right – remove and install/replace	63-	12/8
620	Fog light insert (pop-up headlight), left or right – remove and install/replace	63-	12/9
747	Both pop-up headlights – fit and align headlights	63-	12/10
63 21 180	Tail light, complete unit, left or right – remove and install or replace (on side wall / trunk lid)	63-	21/1
63 25 000	Auxiliary brake light – remove and install or replace	63-	25/1
63 26 000	License plate light, left or right – remove and install or replace	63-	26/1
63 99 250	Bulbs for front light cluster – replace	63-	99/1
315	Bulb for tail light (on side panel or trunk lid), left or right – replace	63-	99/2
375	Bulb for auxiliary brake light – replace	63-	99/3
401	Bulb for license plate light, left or right – replace	63-	99/4

62 99 ... REPLACING LAMPS IN INSTRUMENT CLUSTER

Remove instrument cluster – see
62 21 000.
Turn faulty light bulb about 45° and
pull out.



- 1 Turn signals - right
- 2 Instrument light
- 3 Turn signals - left
- 4 Fuel reserve
- 5 Front fog lamps
- 6 Rear fog lights
- 7 Seat belts
- 8 Oil pressure
- 9 Not used
- 10 Not used
- 11 Battery charge
- 12 High beams
- 13 Engine control
- 14 LCD module light
- 15 Not used
- 16 General warning lamp
- 17 Brake warning
- 18 Not used
- 19 Not used
- 20 Parking brake
- 21 ABS control
- 22 Trailer turn signals
- 23 Not used
- 24 AIRBAG
- 25 Antislip control

63 10 004 Adjusting headlights (pop-up headlights)

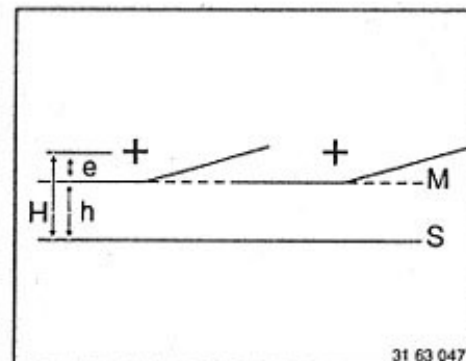
Note:

This adjustment dimension (e) is valid in the FRG (Germany).

Note relevant national specifications!

Test requirements:

- Check tire pressure and correct if necessary
- Apply load equivalent to one person to driver's seat (approx. 75 kg)
- Vehicle fuel tank full or equivalent extra weight in trunk
- Vertical aim control in setting 0
- Vehicle on level ground
- Correct adjustment of headlights relative to hood lid
- Align adjusting unit down longitudinal axis of vehicle and parallel to base position then adjust marking line (M) on adjusting unit to dimension (e)
- Dimension (e) for low beam and full beam = 12 cm / 10 m
- Dimension (e) for foglights = 20 cm / 10 m



e = H-h = 12 cm

H = Height of headlight center over the base position

h = Height of marking line over the base position

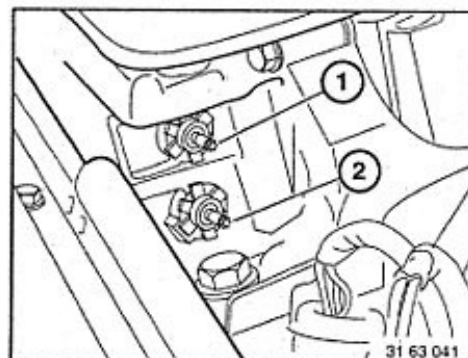
+ = Central mark = center point of headlights

M = Marking line for the adjusting unit

S = Base position of vehicle and adjusting unit

Adjustment procedure:

When adjusting the height setting, the light/dark limit of the low beam headlight must match the horizontal marking line (M) on the unit. For lateral adjustment, the light/dark limit on the bend line must start on the horizontal marking line.



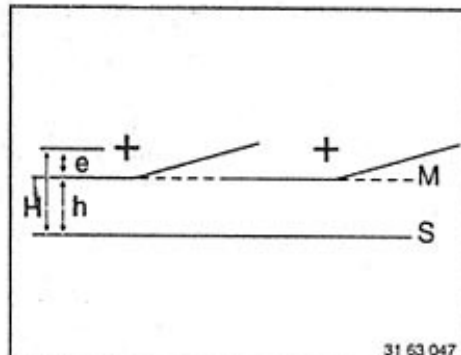
Adjust headlights using adjusting screws (Torx).

It is not possible to achieve clear allocation of adjusting screws.

1. Adjusting screw used primarily for lateral setting
2. Adjusting screw used primarily for height setting

Note:

Always perform adjustment using either of adjusting screws (optional). Only the low beam headlight is adjusted in this way. Check adjustment for high beam and foglights, resetting basic position if necessary - see 63 10 508.

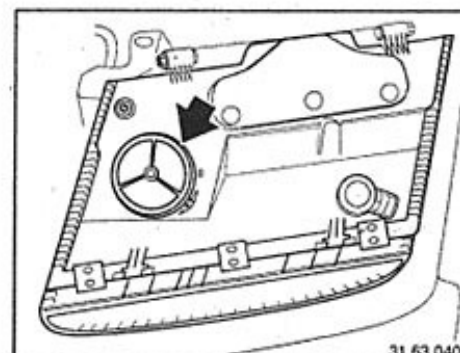


63 10 508 Adjusting basic position of headlight inserts (pop-up headlights) on left and right sides

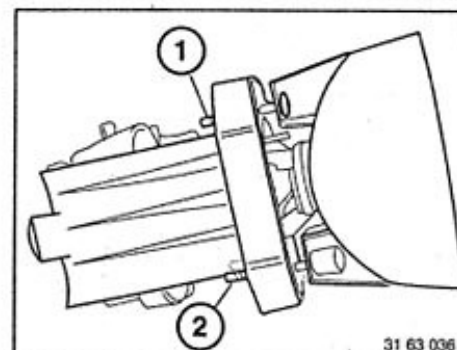
For adjusting the headlight inserts relative to one another, remove the lens see 63 12 033

Adjustment procedure:

For height adjustment, the light/dark limit of the low beam headlight must match the horizontal marking line on the unit. For lateral adjustment, the bend line must start below the center mark (+) on the horizontal marking line (M). The center point for the low beam headlight is set to match the center mark (+). Test requirements see 63 10 004



For basic setting of low beam headlight, open sealing cover.

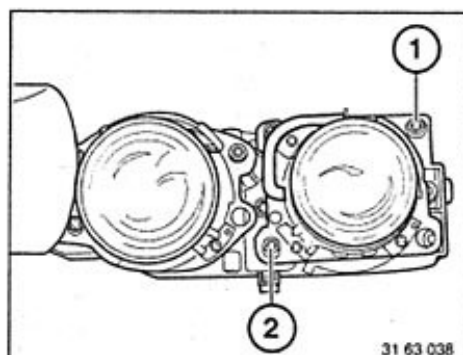


Adjust setting screw (1) for high beam headlight with Torx nut from above and setting screw (2) from front.

- 1 Height adjustment (upper screw)
- 2 Lateral adjustment (lower screw)

Note:

To make the illustration clearer, shown with carrier frame removed. Close sealing cover once again.

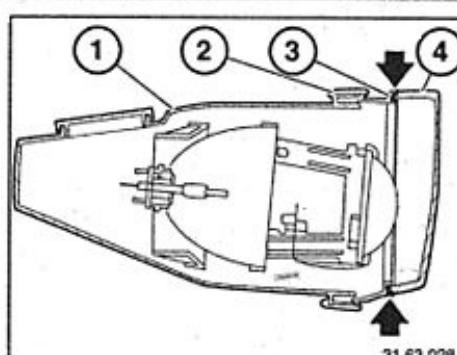


Adjusting screws for low beam headlight

- 1 Lateral adjustment
- 2 Height adjustment

Note:

To make illustration clearer, shown with carrier frame removed.

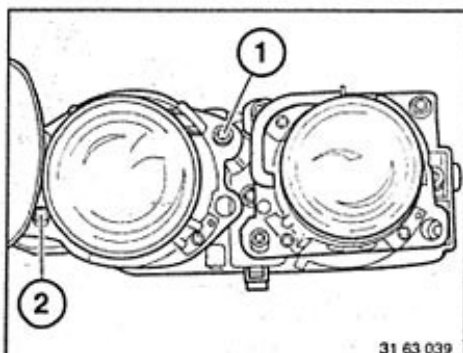


Fit lens.

Installation:

Ensure lens is correctly installed. If necessary, fit new gasket!

- 1 Headlight housing
- 2 Clip
- 3 Gasket
- 4 Lens



Adjusting screws for foglights

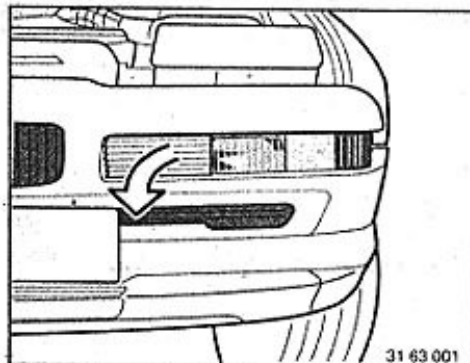
Caution!

Note different adjusting dimension (e).

- 1 Lateral adjustment
- 2 Height adjustment

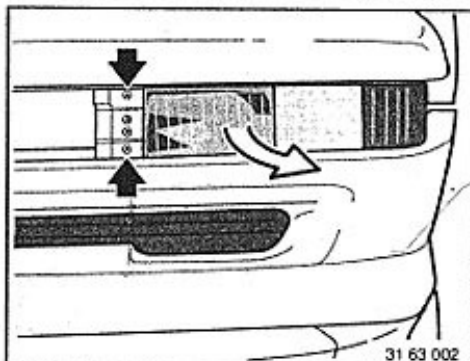
Note

To make the illustration clearer, shown with carrier frame removed.



63 11 100 Removing and installing left or right front light cluster

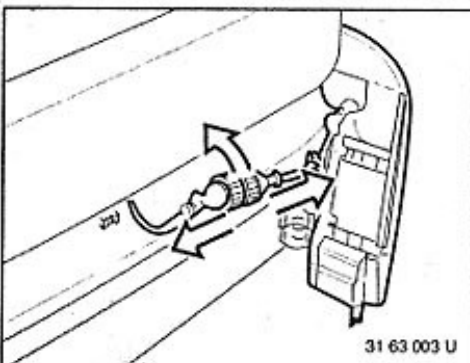
Unclip and remove grill



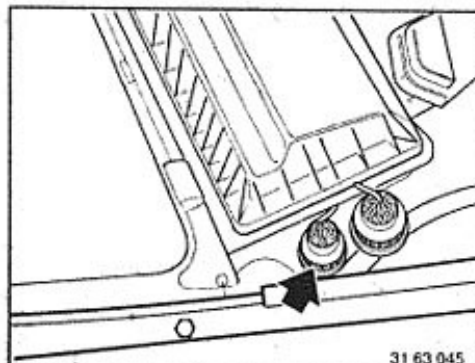
Unfasten the outer screws and lift out head-lights.

Installation:

The two inner screws are used to adjust the headlights

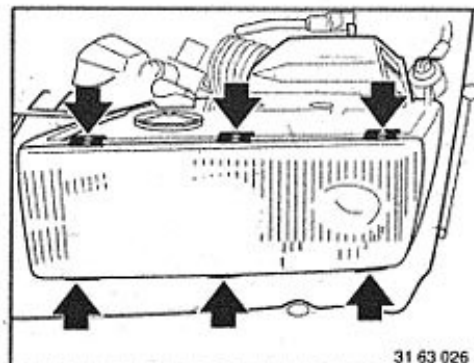


Disconnect plug connection

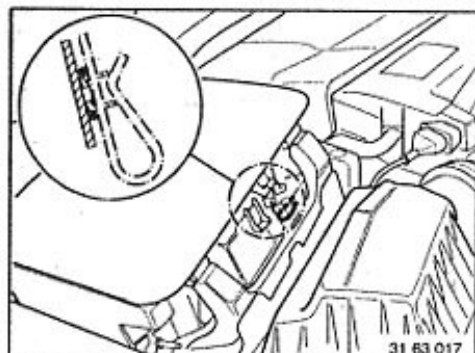


63 12 033 Removing and installing or replacing left or right lens (for pop-up headlights)

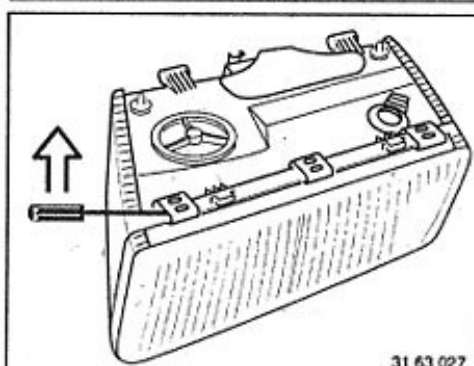
Raise pop-up headlights.
Disconnect 4-pin connector for actuator drive to prevent a risk of accident!



Remove clips from top and bottom.

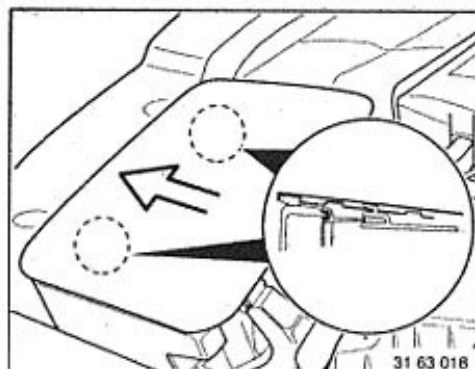


Remove retaining pin.
Open lock.



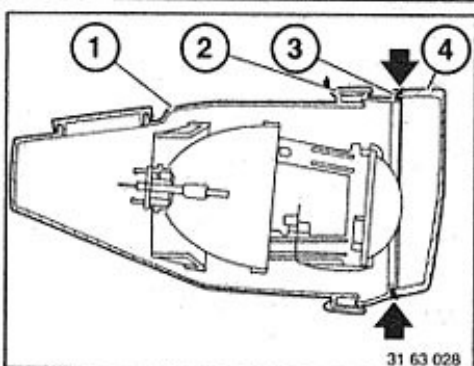
Insert screwdriver between headlight housing and clips and lift up clips.

Note:
To make illustration clearer, shown with head-lights removed.



Slide cover forwards and remove.

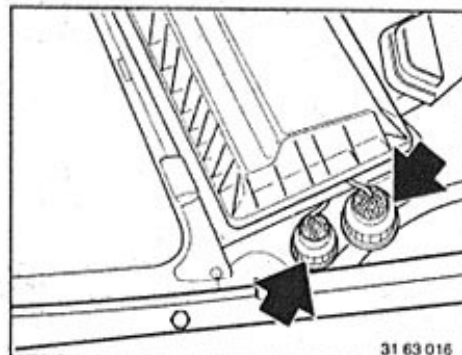
Installation:
Ensure that cover is correctly seated.



Remove lens.

Installation:
Ensure that lens is correctly seated.
If necessary, remove gasket!

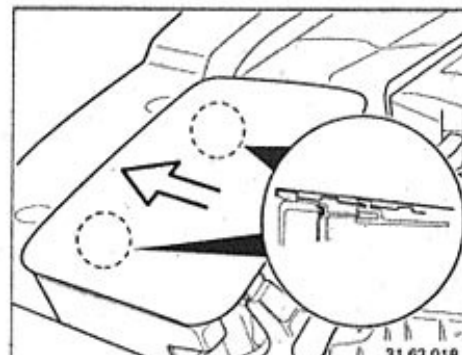
- 1 = Headlight housing
- 2 = Clips
- 3 = Gasket
- 4 = Lens



63 12 090 Removing and installing or replacing complete left and right pop-up headlights

Raise pop-up headlights.
Unfasten connector.

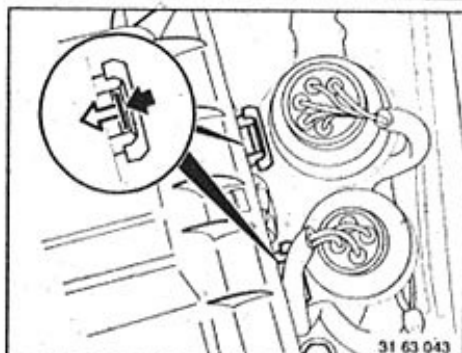
Installation:
Interrogate fault memory, remedy any faults and clear memory.



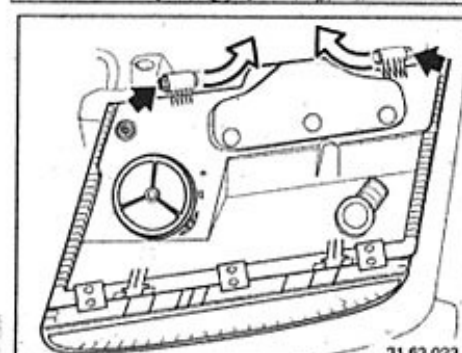
Slide cover forwards and remove.

Installation:
Check that cover is correctly seated!

- 1 Cover
- 2 Lug on headlight housing

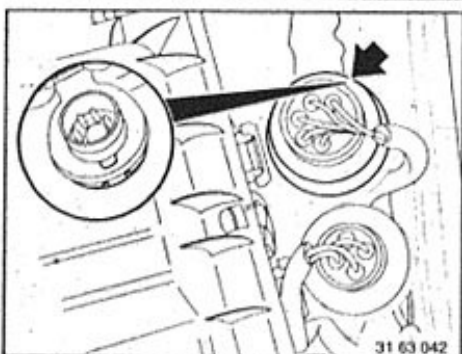


Unclip bracket.
Remove bracket.

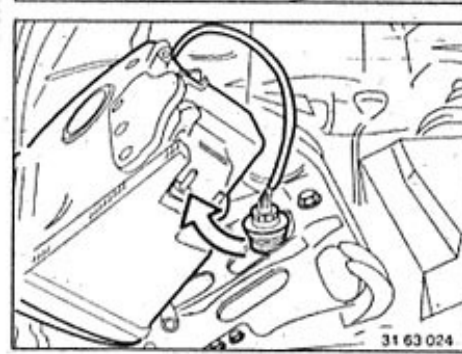


Unfasten nuts and remove dowel pin.

Installation:
Ensure that dowel pin is correctly located!

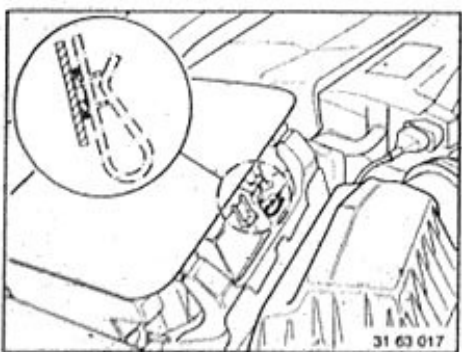


Unscrew retaining nut.

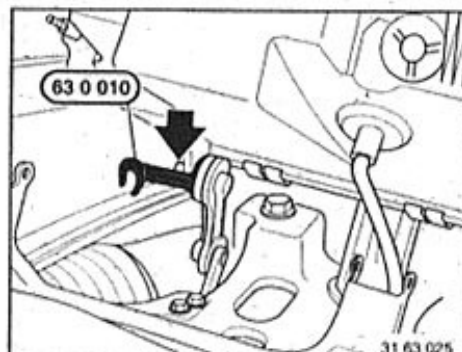


Fold headlights forward.

Note:
Protect headlight and body from damage.
Pull cable and connector through carrier plate.

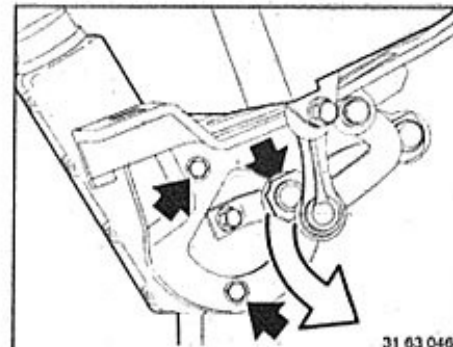


Remove retaining pin.
Open lock.



Use special tool 63 0 010 to trip lock nut and unfasten nut.

Note:
If necessary, slide back rubber grommets and ensure that they are correctly seated after installation.



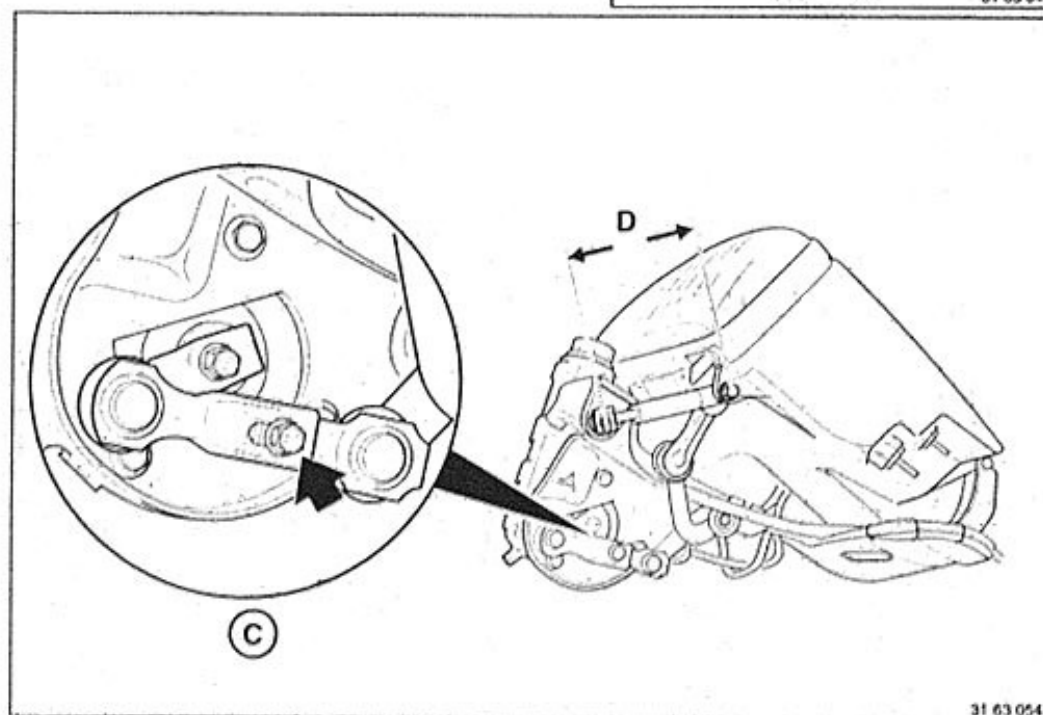
63 12 200 Replacing actuator drive for left or right pop-up head-lights

Remove pop-up headlight with carrier plate, see 63 12 460.

Lever linkage off ball pin.

Unfasten screws and remove actuator drive.

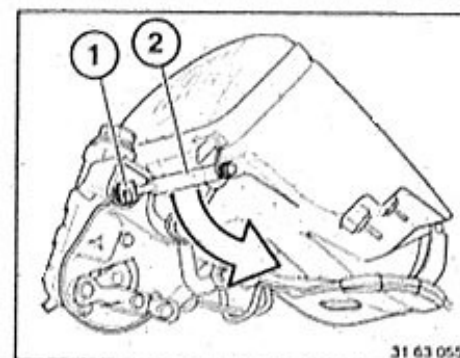
31 63 046



31 63 054

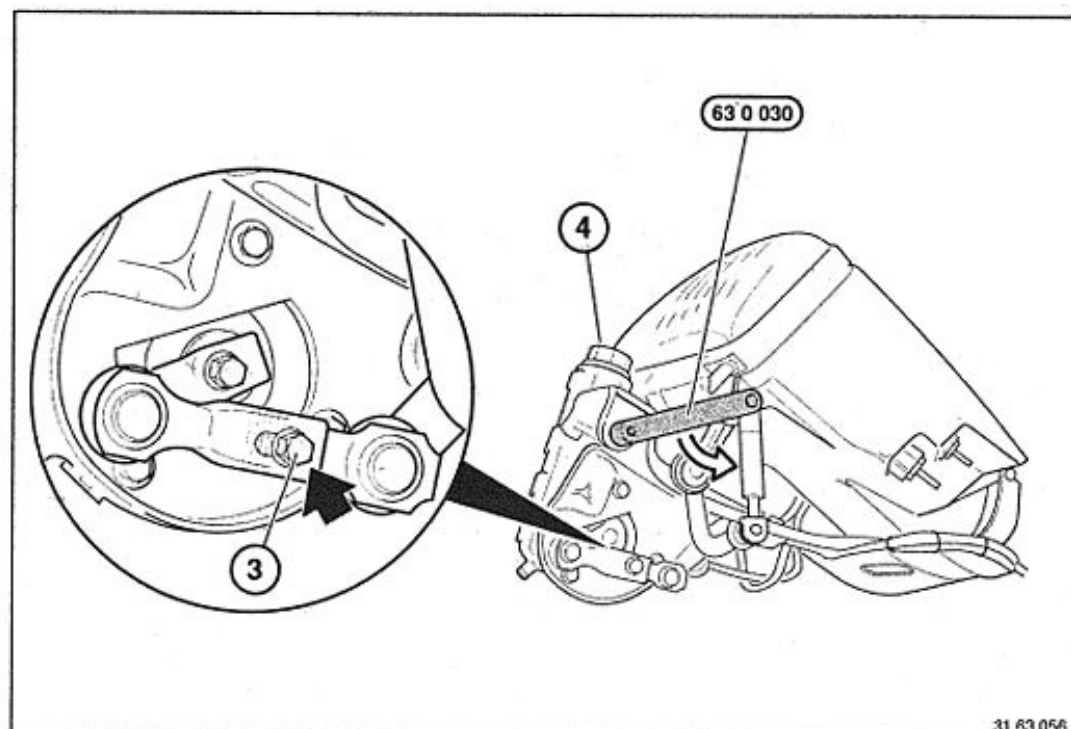
Check setting of adjustment lever (C).

The adjustment dimension ($D = 102 \text{ mm} \pm 1$) for the gas strut must be set using the adjustment lever (C). Once the adjustment dimension (D) is correct, install and adjust the headlight, see 63 12 747.



31 63 055

If the adjustment dimension (D) is not correct, unfasten the retaining clip (1), lift out the gas strut (2) and fold down.



Fully raise the pop-up headlights (4) using the handwheel (4).

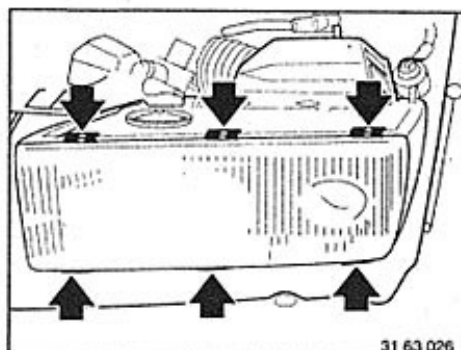
Slide special tool 63 0 030 on to the two retaining points of the gas struts (small bore on the lower pin, large bore on the retaining nut).

If the special tool does not fit, loosen screw (3) and slide adjustment lever until the tool fits on the two retaining points. Tighten screw (3), re-install the gas strut, then install and adjust the headlight unit

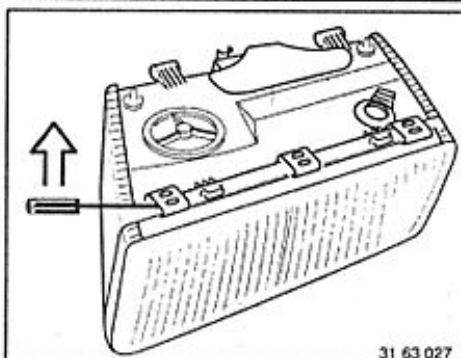
see 63 12 747

63 12 400 Removing and installing or replacing insert for left or right headlight

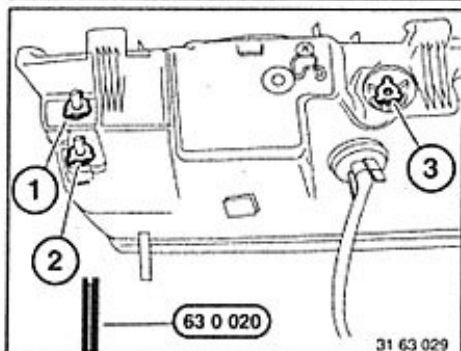
Removing and installing complete left or right pop-up headlight - see 63 12 090.



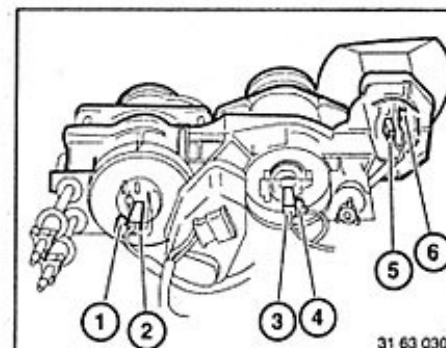
Remove lens.
Remove top and bottom clips.



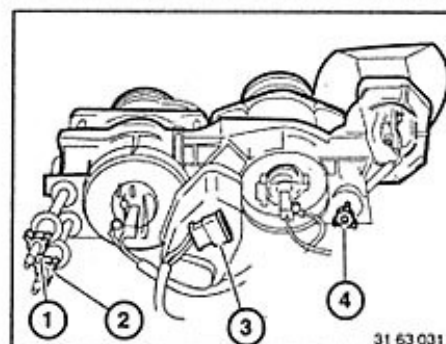
Insert screws between headlight housing and lift out clips.



Twist retaining nuts on adjusting screws (1 and 2) and the retaining screw (3) using special tool 63 0 020 until the carrier frame can be lifted out.
Withdraw carrier frame until it is possible to remove the cables.



Caution!
Note colors of lines.
Remove plugs 1 to 6.

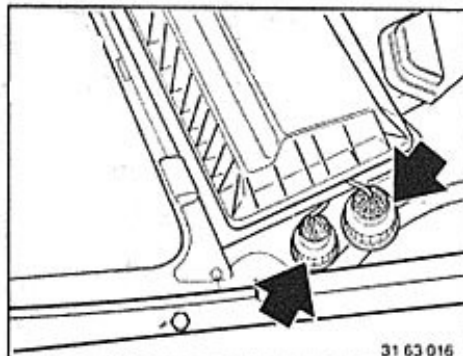


Remove connector 3 for motor for vertical aim control and remove complete carrier frame.

- 1 Adjusting and retaining screw for carrier frame
- 2 Adjusting and retaining screw for carrier frame
- 3 Connector for motor for vertical aim control
- 4 Retaining screw for vertical aim control

Replace high beam headlight insert
See 63 12 600
Replace high beam headlight insert
see 63 12 610
Replace foglights
see 63 12 620

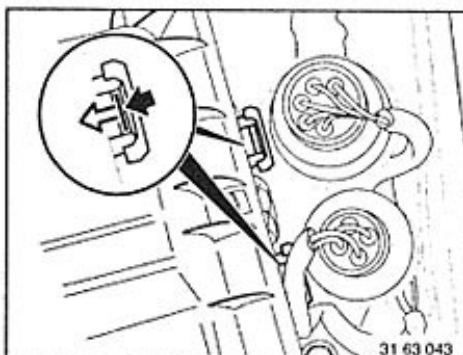
Installation:
Adjusting headlights, see 63 10 004



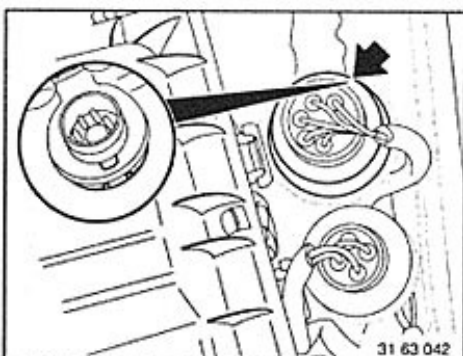
63 12 460 Removing and installing or replacing complete left or right pop-up headlight with carrier plate

Remove connector.

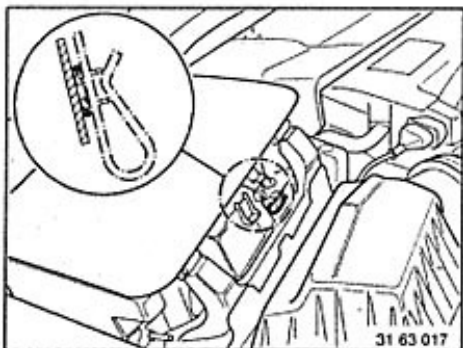
Installation:
Interrogate fault memory, remedy any faults and clear the memory.



Unfasten clips.
Remove bracket.

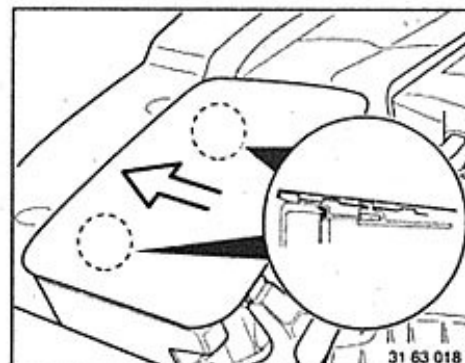


Unscrew and remove retaining nut.



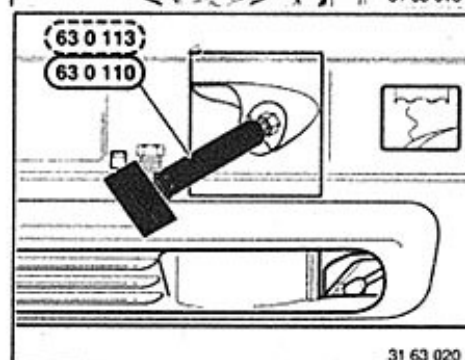
Remove retaining pin.
Open lock.

Caution!
Ensure that installation position is correct!



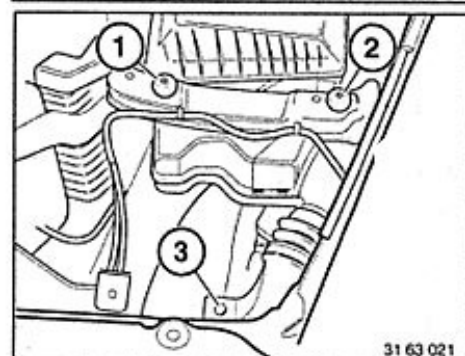
Slide cover forwards and remove.

Installation:
Ensure that cover is correctly seated!



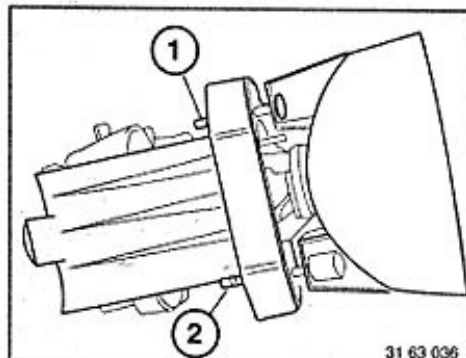
Unfasten nut with special tool 63 0 110 or, with width across flats of 17 mm, unfasten using special tool 63 0 113.

Note:
Always brace to avoid altering the height of the headlight.



Unfasten nuts (1 to 3) and remove headlight by lifting upwards.

Installation:
Adjust pop-up headlights and install see 63 12 747

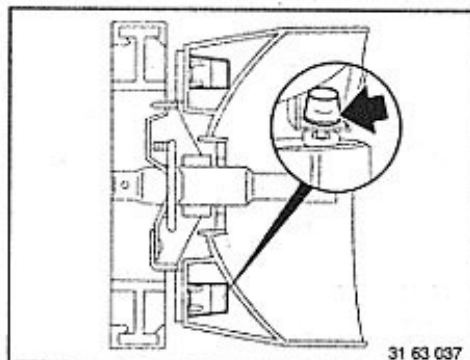


63 12 600 Removing and installing or replacing left or right high beam headlight insert

Remove headlight insert see 63 12 400

Caution!

Do not turn adjusting screws (1 and 2).



Heat retaining clips with hot air blower.

Caution!

Do not damage carrier frame and reflector when heating the retaining clips.

Installation:

Replace retaining clips!

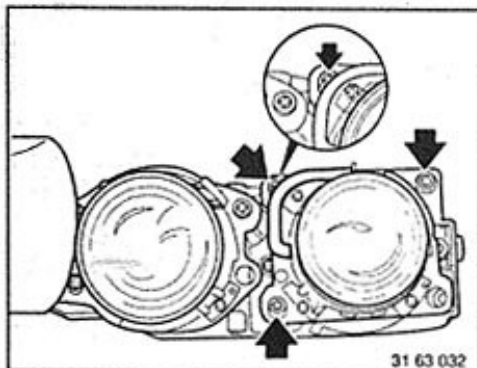
Remove reflector from retaining clips.

Caution!

Do not reach into reflector.

Adjust basic setting of headlight inserts

see 63 10 508.

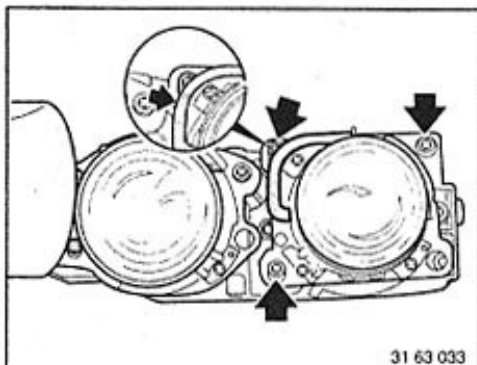


63 12 610 Removing and installing or replacing left or right low beam headlight insert (pop-up headlights)

Removing headlight insert - see 63 12 400

Caution!

Do not twist adjusting screws in the retaining clips.



Move reflector unit into RHD setting. Heat retaining clips with hot air blower and press out of bracket.

Caution!

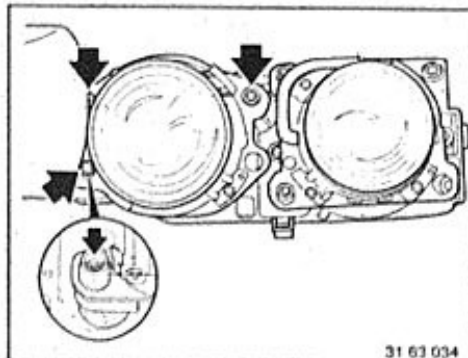
Do not damage the carrier frame when heating the retaining clips.

Installation:

Replace retaining clips!

Do not reach into reflector unit!

Adjust basic setting of headlight inserts see 63 10 508.

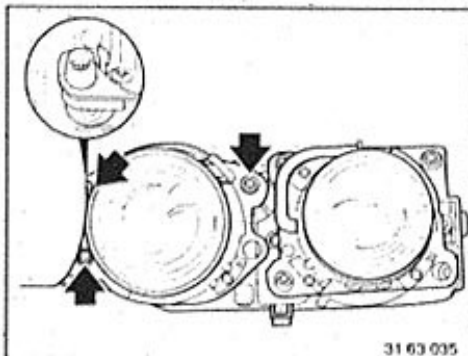


63 12 620 Removing and installing or replacing left or right fog-light insert (pop-up head-lights)

Remove headlight insert see 63 12 400

Caution!

Do not twist adjusting screws in the retaining brackets.



Heat retaining clips with hot air blower and press out of bracket.

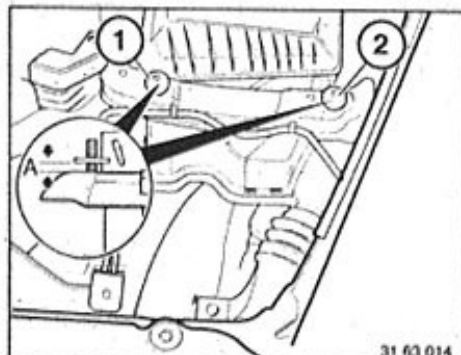
Caution!

Do not damage carrier frame and reflector when heating the retaining clips.

Installation:

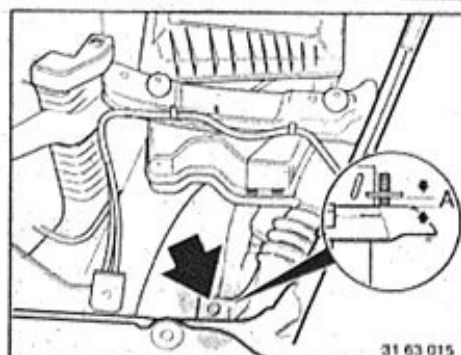
Replace retaining clips!

Adjust basic position of headlight inserts see 63 10 508.

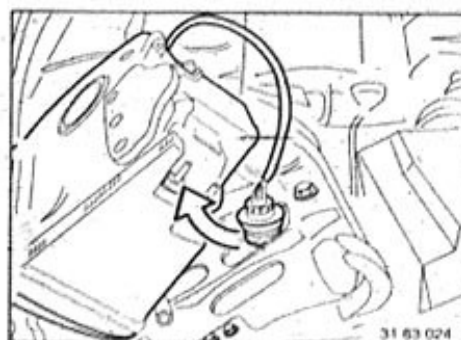


63 12 747 Installing both pop-up head lights and adjusting the headlights

Set rear adjusting screws (1 and 2) with special tool 63 0 110 or 63 0113 to preassembly dimension $A = 9.5 \text{ mm}$.

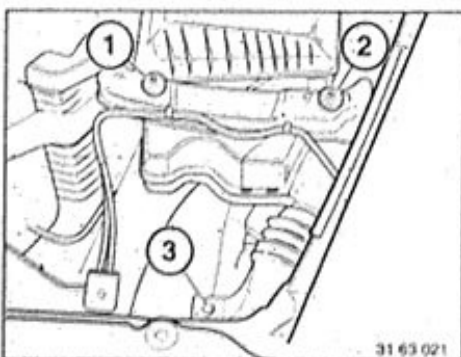


Set adjusting screw to preassembly dimension $A = 5.0 \text{ mm}$ with special tool 63 0 110 or 63 0 113.



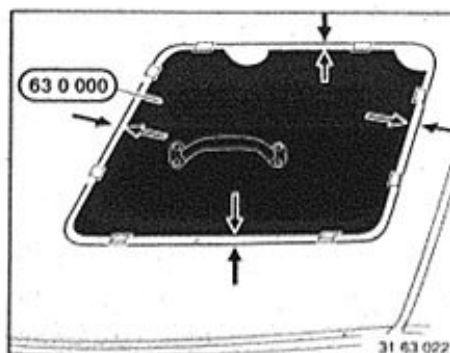
Install headlights with cables.

Caution!
Ensure that cables are correctly located.



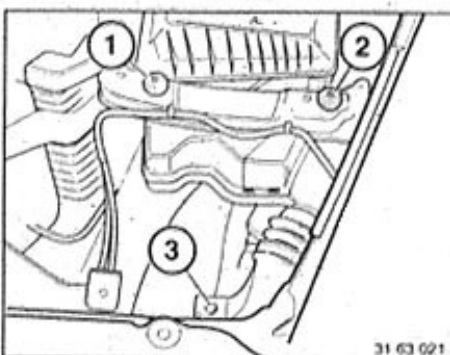
Tighten all nuts gently.

Note:
It must be possible to slide headlights sideways.



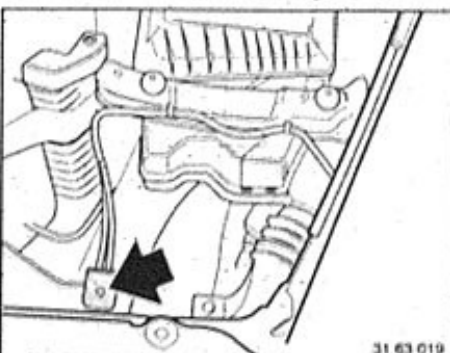
Fit shaped lid (special tool) 63 0 000. Carefully close hood lid to avoid damage to paint on hood lid being caused by the spacer blocks

Caution!
Shaped lids for left and right sides are different.



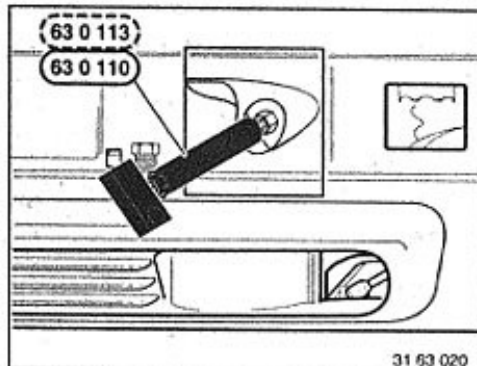
Perform height adjustment on adjusting screws (1 ... 3).
Use special tool 63 0 110.

Note:
To make illustration clearer, shown with pop-up headlights removed.

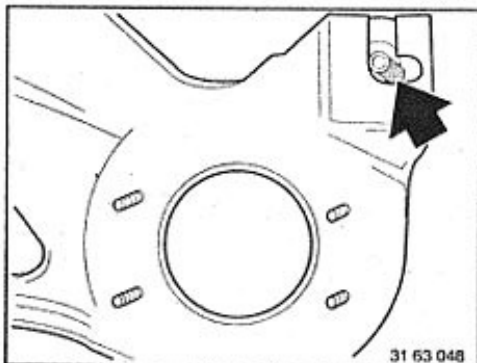


From 5/91 the height adjustment of the inner screw can be performed from the top. The front light cluster is not removed any more. Set adjusting screw to preassembly dimension $A = 5.0 \text{ mm}$ using special tool 63 0 110 or 63 0 113.

Note:
To make illustration clearer, shown with pop-up headlights removed.



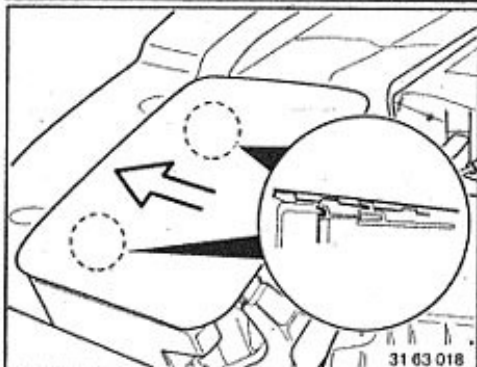
Until 5/91, height of retaining bracket is adjusted from the front. To do this, first remove the front light cluster, see 63 11 100.



up to 5/91

Installation:

If height cannot be adjusted sufficiently, ensure that the adjusting screw is correctly installed.



Tighten retaining nuts.

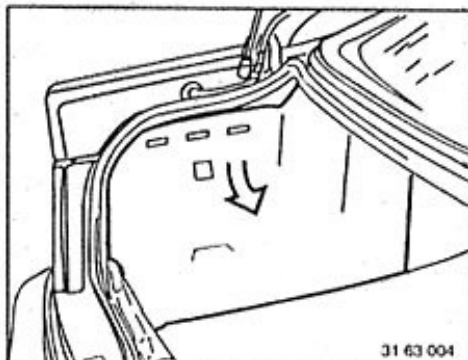
Remove shaped cover and fit sealing cover.

Installation:

Ensure that the lid is correctly seated.

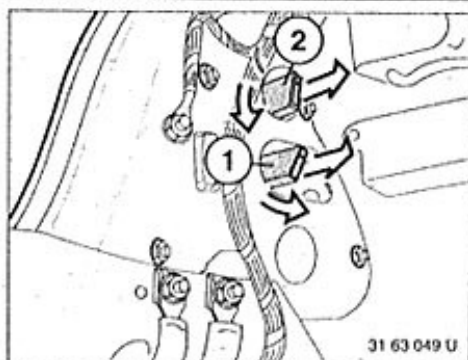
Close the hood lid.

Check that gap between hood lid and headlight cover is the same all round. Check height adjustment once again and, if necessary, repeat the height adjustment process. Adjust headlights see 63 10 004.

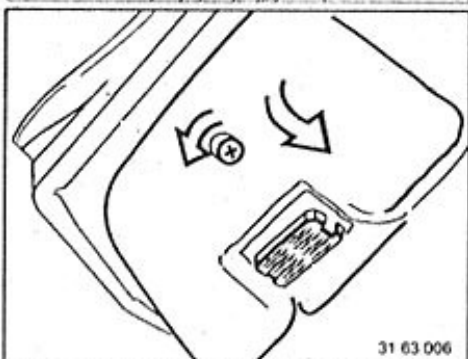


63 21 180 Removing and installing or replacing complete left or right tail light (on side panel / trunk lid)

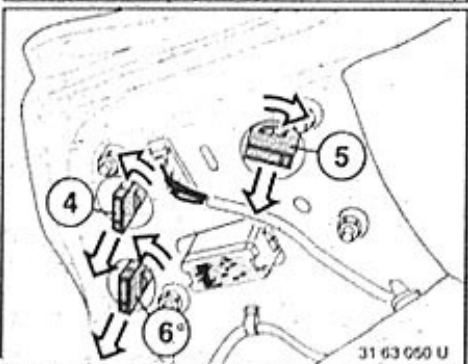
Unclip side trim panel.



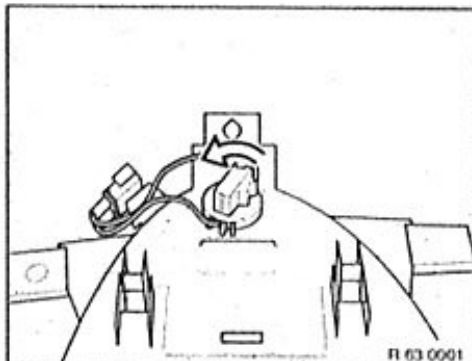
Remove connector, unfasten nuts and lift out tail light.



Turn clips 90° and fold down trunk lid trim panel.

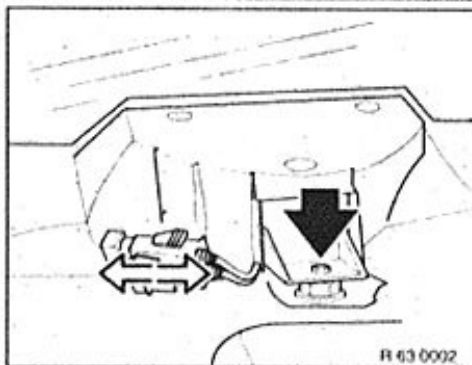


Remove connector, unfasten nuts and lift out tail light.



63 25 000 Removing and installing or replacing additional brake light

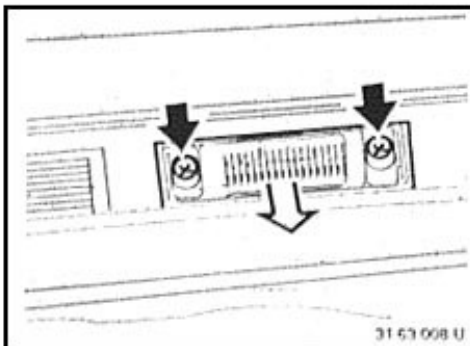
Twist lamp bracket (from trunk) and remove.



Remove rear shelf, see 51 46 000

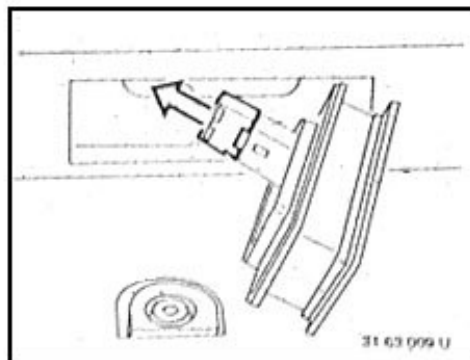
Unfasten screw connection.

Unfasten screws and remove brake light.



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

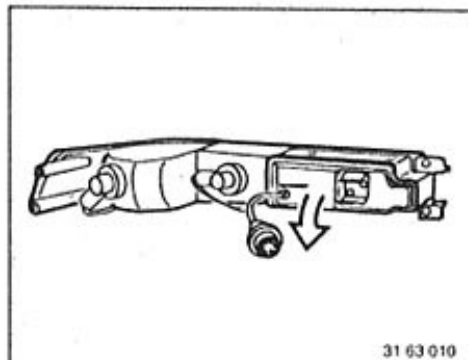
Unscrew screws and take out light.



Pull off plug.

Note:
Light bulb type*.

* See Specifications



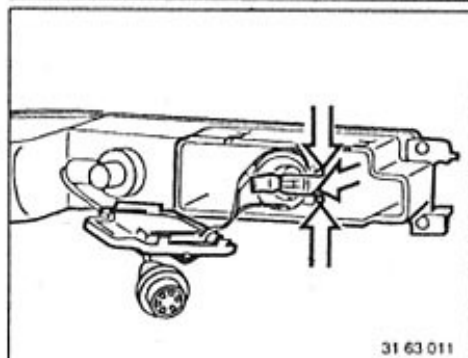
63 99 250 Replacing bulbs for front light combination

Remove front light combination
see 63 11 100

Replace bulb in high-beam headlights

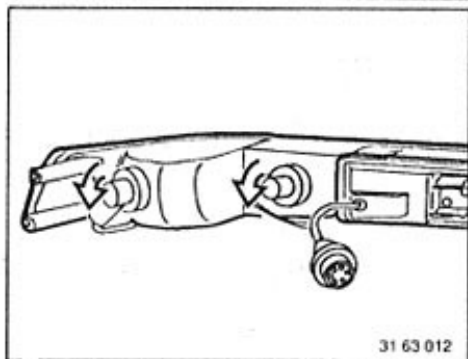
Unclip cover

31 63 010



Unfasten connector 1, press together clips
and open, lift out bulb

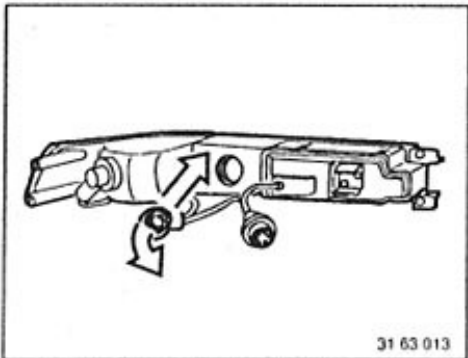
31 63 011



Replace bulb for parking light

Twist lamp bracket and lift out

31 63 012

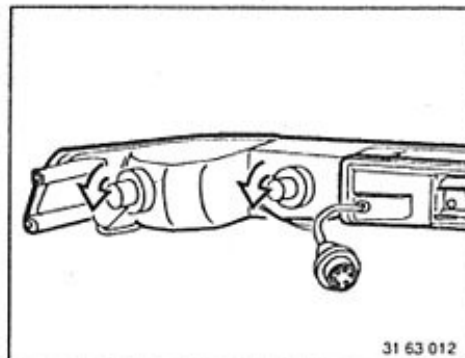


Twist bulb and lift out.

Caution:
Only use 2 thread lamp *.

31 63 013

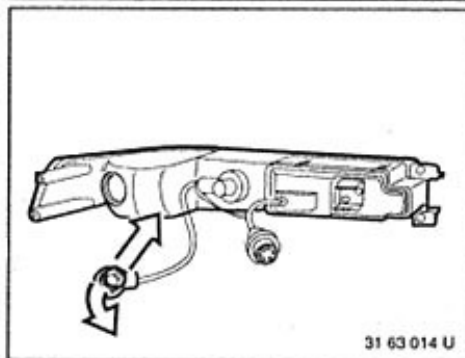
* Refer to Technical Data



Replace bulb for indicators

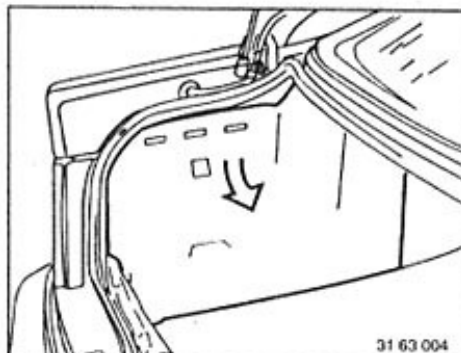
Twist lamp bracket and lift out

31 63 012



Twist and lift out bulb

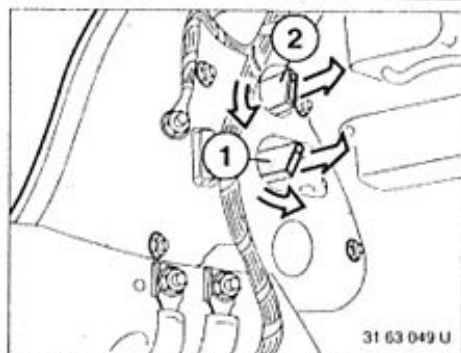
31 63 014 U



63 99 315 Replacing bulb for left or right tail light (on side panel or trunk lid)

(for bulbs in side panel)
Unclip side trim panel

31 63 004



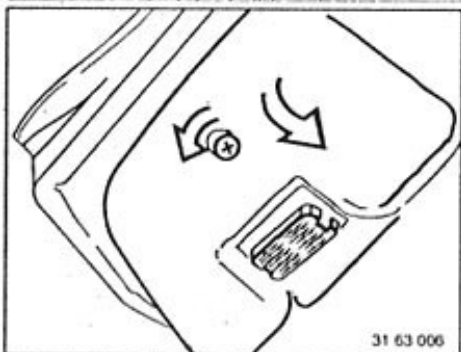
Twist relevant lamp bracket and remove. Twist bulb and remove.

Caution!
Use correct type of lamp.*

Arrangement:

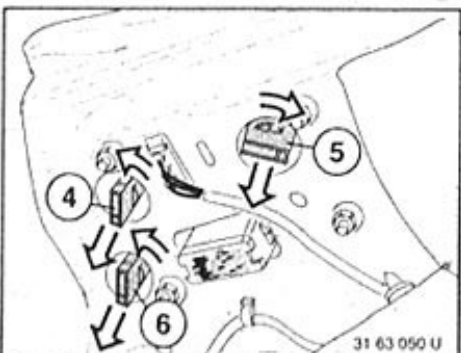
- 1 Brake light
- 2 Display light for direction of travel

31 63 049 U



(for bulbs in trunk lid)
Twist clips 90° and fold down trunk lid trim panel.

31 63 006



Twist appropriate lamp bracket and remove. Twist bulb and remove.

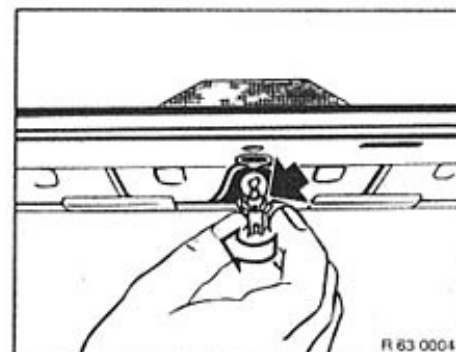
Caution!
Use correct type of lamp.*

Arrangement :

- 4 Tail light
- 5 Rear foglight
- 6 Reversing light

31 63 050 U

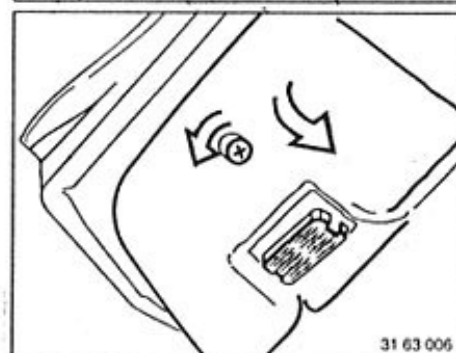
* Refer to Technical Data



63 99 375 Replacing bulb for additional brake light

Open trunk lid.
Twist lamp bracket and remove.
Twist bulb and remove.

R 63 0004



31 63 006

63 99 401 Replacing bulb for left or right license plate light

Unfasten screws and remove lamp.
Remove bulb from contacts.