

63 Lights

63 10 004	Headlights (concealed headlights) – aim	63-10/1
63 11 ...	Front light assembly, left or right – remove and install	63-11/1
63 12 ...	Concealed headlight lamp – remove and install or replace	63-12/1
033	Concealed headlight lens, left or right – remove and install or replace	63-12/6
090	Concealed headlight assembly, left or right – remove and install or replace	63-12/7
450	Concealed headlight complete with console, left or right – remove and install	63-12/8
200	Concealed headlight drive, left or right – replace	63-12/10
63 21 ...	Tail lights (on side panel and trunk lid), left or right – remove and install or replace	63-21/1
63 26 000	License plate light, left or right – remove and install or replace	63-26/1
63 99 250	Light bulbs in front light assembly – replace	63-99/1
315	Light bulbs for tail lights (on side panel or trunk lid), left or right – replace	63-99/2

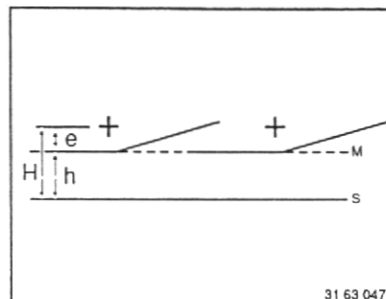
63 10 004 AIMING CONCEALED HEADLIGHTS

Note:

Adjusting distance (e) is applicable in Germany. Conform with legislation in other countries!

Test Requirements:

- Check/correct tire pressure.
- Load down driver's seat with a person weighing about 75 kg (165 lbs.).
- Full fuel tank or additional weight in trunk.
- Headlight vertical aim control set to 0.
- Car on level floor.
- Correct adjustment of headlights to engine hood.
- Almer set up on car's longitudinal axis and parallel to contact surface and marking line (M) set to distance (e) on almer.
- Distance (e) for high and low beams = 12 cm (4.724") / 10 m (33 feet).
- Distance (e) for front fog lamps = 20 cm (7.874") / 10 m (33 feet).



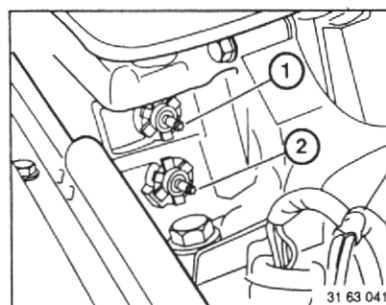
Explanations:

e = $H - h = 12 \text{ cm (4.724")}$
 H = Height of headlight center above contact surface
 h = Height of marking line above contact surface
 + = Central mark = center of headlight
 M = Marking line of almer
 S = Contact surface of car and almer

Aiming Procedure:

For the vertical adjustment the light/dark border of the low beam headlight must be aligned with the horizontal marking line of the almer.

For the lateral adjustment the line must begin to bend below the central mark on the horizontal marking line. The center of the high beam headlight is adjusted to the central mark.



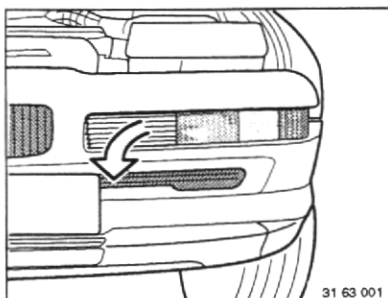
Correct headlight aiming with the Torx adjusting screws.
 A certain arrangement of adjusting screws is not possible.

1. Adjusting screw chiefly for lateral adjustments
2. Adjusting screw chiefly for vertical adjustments

Note:

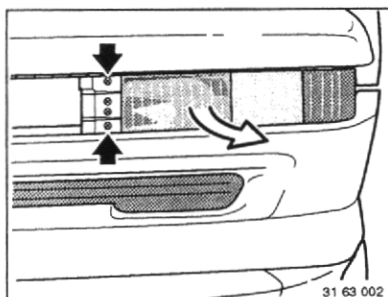
Always correct aiming on both adjusting screws.

63-11/1



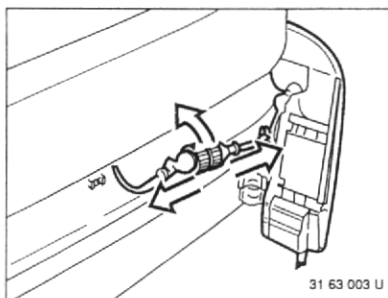
63 11 ... REMOVING AND INSTALLING LEFT OR RIGHT FRONT LIGHT ASSEMBLY

Unclip grill.



Unscrew outside screws and lift out
headlight.

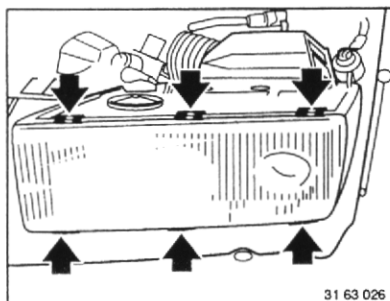
Important!
Headlight is adjusted with both inside
screws.



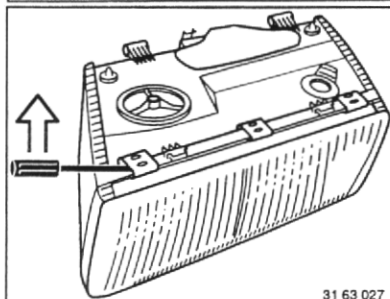
Disconnect plug.

63 12 ... REMOVING AND INSTALLING
OR REPLACING ONE LAMP
FOR CONCEALED HEAD-
LIGHT

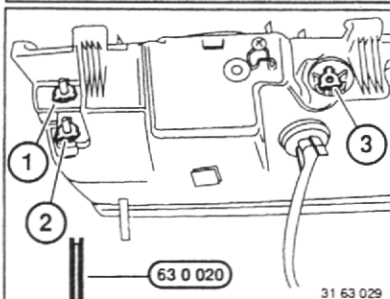
Remove left or right concealed head-
light assembly – see 63 12 090.



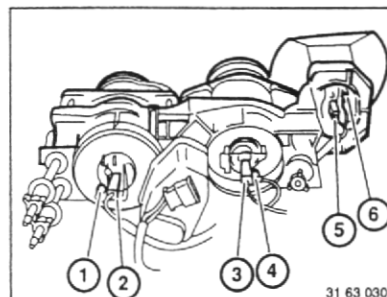
Unscrew lens.
Take off retainers at top and bottom.



Insert a screwdriver between the head-
light housing and retainer and pry off
retainer.

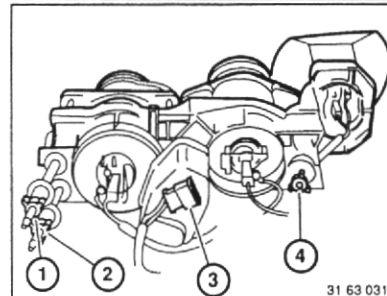


Turn mounting nuts of adjusting
screws (1 and 2) and mounting screw
(3) with Special Tool 63 0 020 so far
until the console can be pulled out.
Pull out console far enough until the
wires can be pulled off.



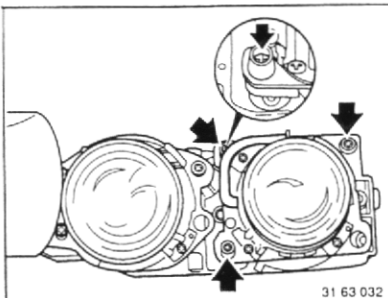
Pull off wires.

1 = brown	= ground	low beam
2 = yellow	= positive	low beam
3 = gray	= positive	front fog lamp
4 = brown	= ground	front fog lamp
5 = white	= positive	high beam
6 = brown	= ground	high beam



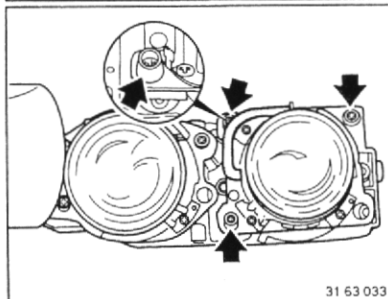
Pull off plug for vertical headlight aim
control motor.

1 =	Adjusting and mounting screw for console
2 =	Adjusting and mounting screw for console
3 =	Plug for vertical headlight aim control motor
4 =	Mounting screw for vertical headlight aim control



Removing Reflector for Low Beam:

Important!
Never turn adjusting screws in clips.



Move aperture to position for RHD traffic.

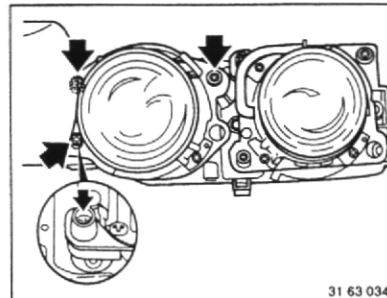
Heat clips with a hot air blower.

Important!
Make sure that console is not damaged while heating the clips.

Installation:
Replace clips.

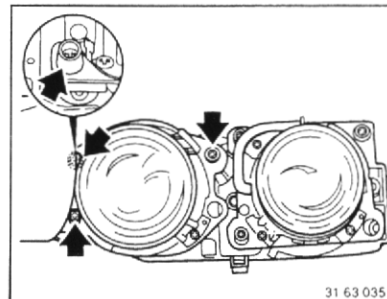
Pull reflector out of clips.

Important!
Never take hold in the reflector!



Removing Reflector for Front Fog Lamp:

Important!
Never turn adjusting screws in clips.



Heat clips with a hot air blower.

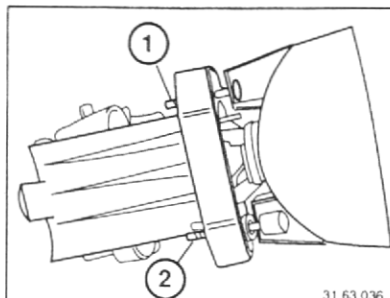
Important!
Make sure that console and reflector are not damaged while heating clips.

Installation:
Replace clips.

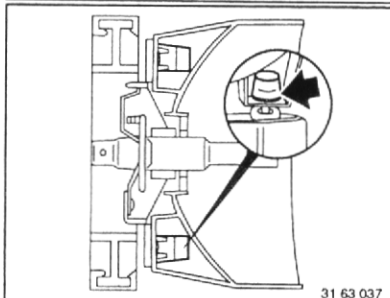
Pull reflector out of clips.

Important!
Never take hold in the reflector.

63-12/3



31 63 036



31 63 037

Removing Reflector for High Beam:

Important!

Don't turn adjusting screws (1 and 2).

Heat clips with a hot air blower.

Important!

Make sure that console and reflector are not damaged while heating clips.

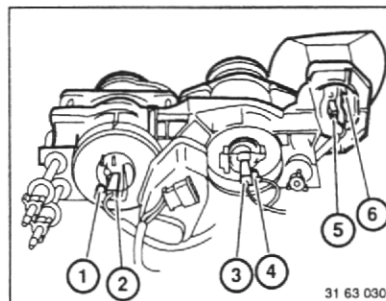
Installation:

Replace clips.

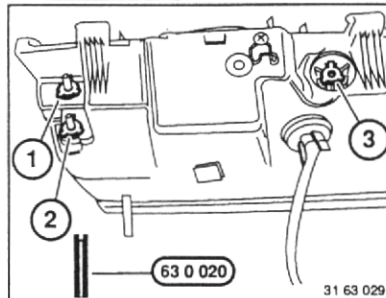
Pull reflector out of clips.

Important!

Never take hold in the reflector.



31 63 030



31 63 029

Connect wires.

1 = brown	= ground	low beam
2 = yellow	= positive	low beam
3 = gray	= positive	front fog lamp
4 = brown	= ground	front fog lamp
5 = white	= positive	high beam
6 = brown	= ground	high beam

Slide console into headlight housing.
Turn mounting nuts of adjusting screws (1 and 2) and mounting screw (3) with Special Tool 63 0 020.

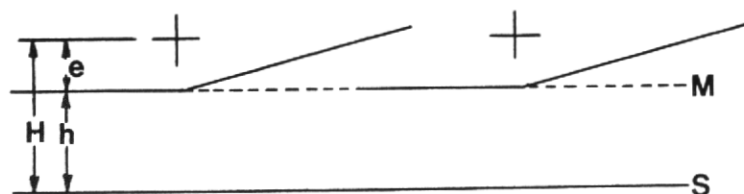
Adjust basic position of left or right concealed headlight lamps.

Note:

Adjusting distance (e) is applicable in Germany. Conform with legislation in other countries.

Test Requirements:

- Check / correct tire pressure.
- Load down driver's seat with a person weighing about 75 kg (165 lbs.).
- Full fuel tank or additional weights in trunk.
- Vertical headlight aim control set to 0.
- Car on level floor.
- Correct adjustment of headlights to engine hood.
- Almer set up on car's longitudinal axis and parallel to contact surface and marking line (M) set to distance (e) on the almer.
- Distance (e) for low and high beams = 12 cm (4.724") / 10 m (33 feet).
- Distance (e) for front fog lamps = 20 cm (7.874") / 10 m (33 feet).



30 63 067

Adjusting Procedure:

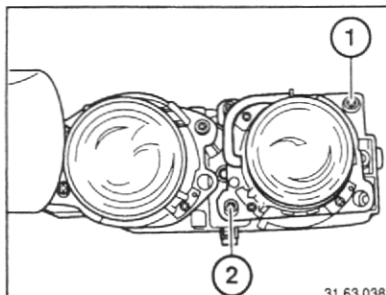
For the vertical adjustment the light/dark border of the low beam headlight must be aligned with the horizontal marking line of the almer.

For the lateral adjustment the line must begin to bend below the central mark on the horizontal marking line. Center point of the high beam headlight is adjusted to the central mark.

Explanations:

- e = $H - h = 12 \text{ cm (4.724")}$
- H = Height of headlight center above contact surface
- h = Height of marking line above contact surface
- + = Central mark = headlight center
- M = Marking line of almer
- S = Contact surface of car and almer

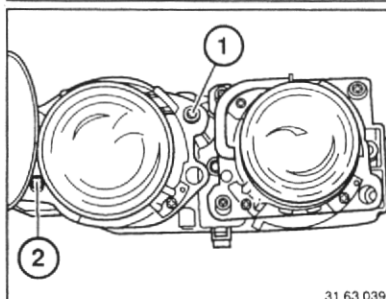
63-12/5



Low beam adjusting screws (basic adjustment) are accessible from front.

1 = Lateral adjustment
2 = Vertical adjustment

Note:
Console was removed in picture for better illustration.

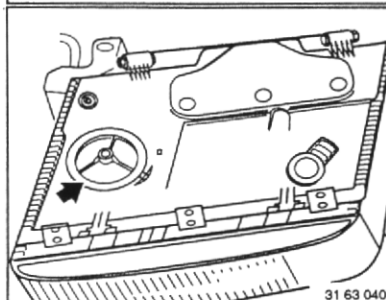


Front fog lamp adjusting screws (basic adjustment) are accessible from front.

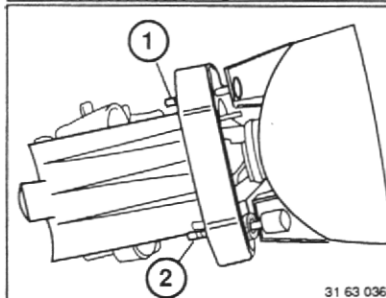
Important!
Check adjusting distance (e).

1 = Lateral adjustment
2 = Vertical adjustment

Note:
Console was removed in picture for better illustration.



Open end cover for basic adjustment of high beam headlights.

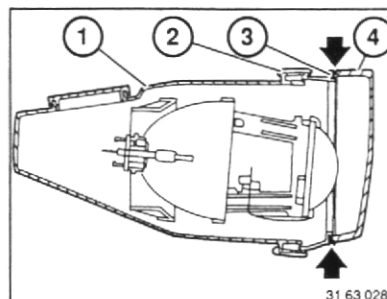


Turn high beam adjusting screws (basic adjustment screws) with a Torx socket.

1 = Vertical adjustment (upper screw)
2 = Lateral adjustment (lower screw)

Note:
Console was removed in picture for better illustration.

Close the end cover again.

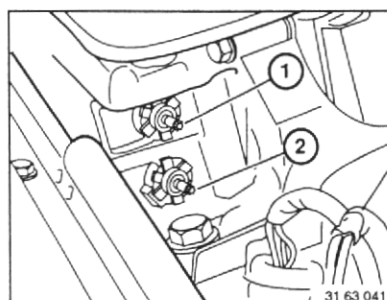


Install lens.

Installation:
Check for correct seating of lens.
Replace seal if necessary!

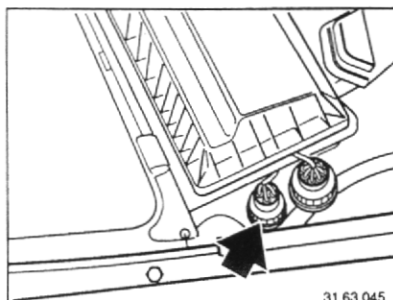
1 = Headlight housing
2 = Retainer
3 = Seal
4 = Lens

Install concealed headlight – see 63 12 090.



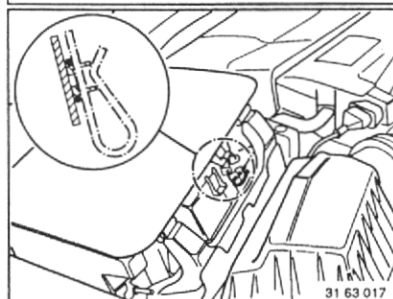
Check headlight aiming, correcting with adjusting screws (1 and 2) if necessary – see 63 10 000.

63-12/6



63 12 033 REMOVING AND INSTALLING OR REPLACING LEFT OR RIGHT LENS (FOR CONCEALED HEADLIGHT)

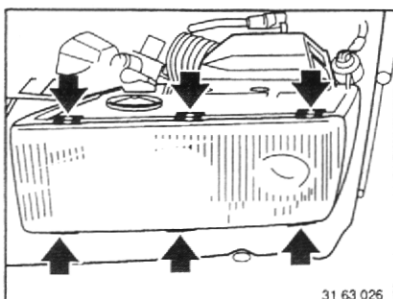
Run up concealed headlights. Disconnect 4-pin plug on drive to prevent injury!



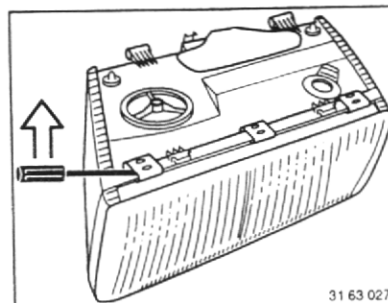
Pull out lockpin. Remove cap.

Push cover forward and remove.

Installation:
Check for correct seating of cover.

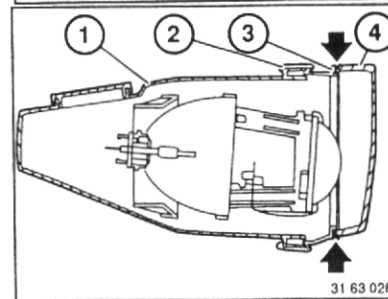


Remove retainers at top and bottom.



Insert a screwdriver between the headlight housing and retainer and pry off retainer.

Note:
Headlight was removed in picture for better illustration.

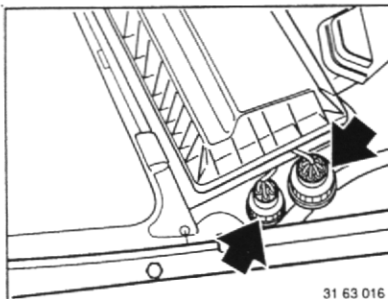


Take off lens.

Installation:
Check for correct seating of lens. Replace seal if necessary.

- 1 = Headlight housing
- 2 = Retainer
- 3 = Seal
- 4 = Lens

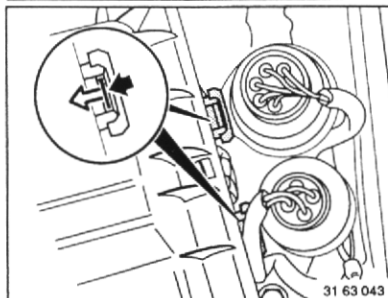
63-12/7



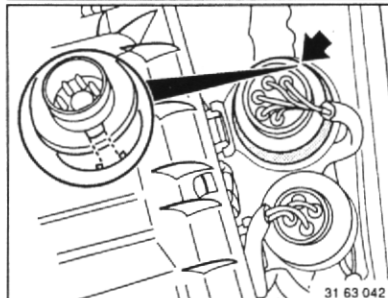
63 12 090 REMOVING AND INSTALLING OR REPLACING LEFT OR RIGHT CONCEALED HEADLIGHT ASSEMBLY

Run up concealed headlights.
Disconnect plugs.

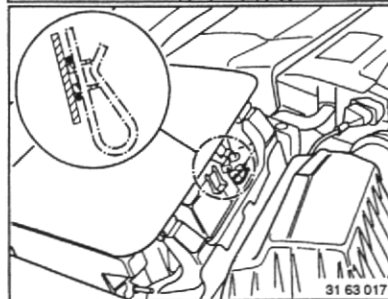
Installation:
Read fault memory; eliminate and cancel faults if applicable.



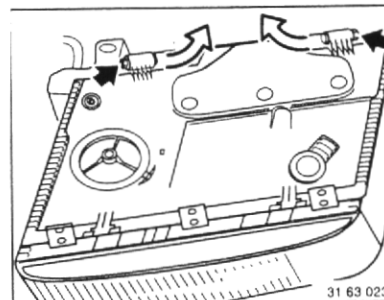
Unclip holder.
Take off holder.



Unscrew mounting nut.

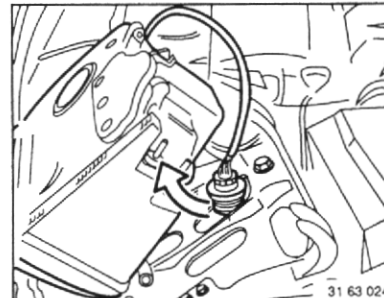


Pull out lockpin.
Remove cap.



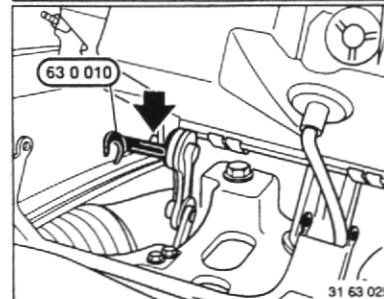
Unscrew nuts and pull out studs.

Installation:
Check for correct installed position of studs.



Tilt headlight forward.

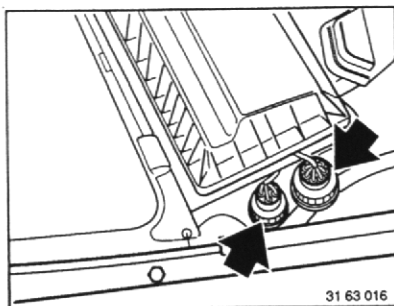
Note:
Protect headlight and body against damage.
Pull wires with plug through the console.



Hold locknut with Special Tool
63 0 110 and unscrew nut.

Note:
If applicable, push back rubber grommets and check for correct seating after installation.

63-12/8

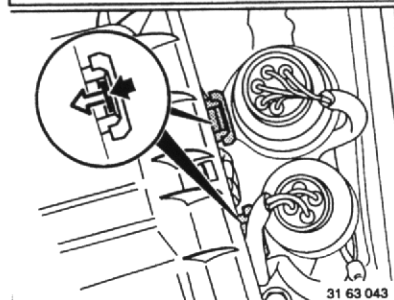


63 12 450 REMOVING AND INSTALLING LEFT OR RIGHT CONCEALED HEADLIGHT COMPLETE WITH CONSOLE

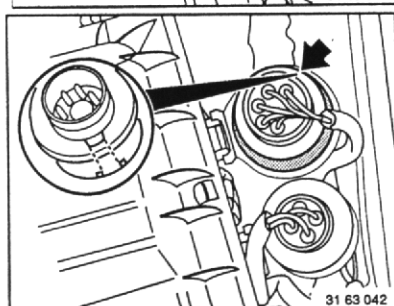
Disconnect plugs.

Installation:

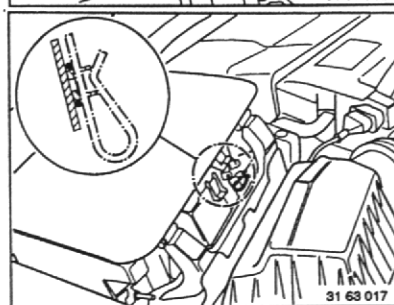
Read fault memory; eliminate and cancel faults if applicable.



Unclip holder.
Take off holder.



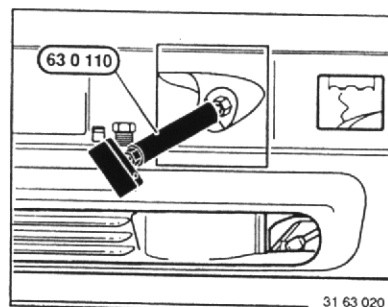
Unscrew mounting nut.



Pull out lockpin.
Remove cap.

Important!

Check for correct installed position!



Slide cover forward and remove.

Installation:

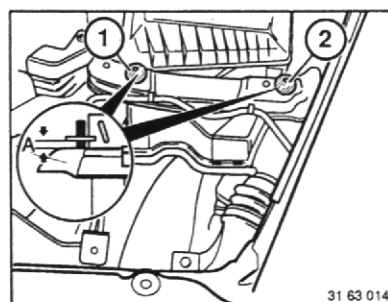
Check for correct seating of cover!

Unscrew nuts with Special Tool
63 0 110.

Note:

Always counterhold to avoid changing the vertical adjustment of headlights.

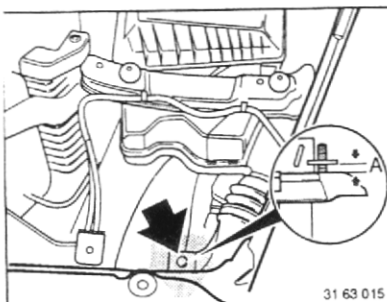
Remove headlight from above.



Installing:

Adjust adjusting screws (1 and 2) to assembled distance = 9.5 mm (0.374") with Special Tool 63 0 110.

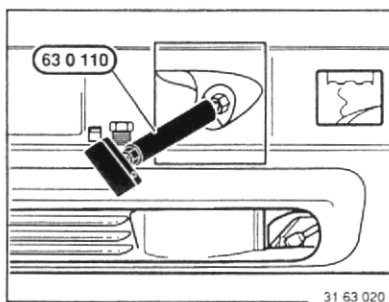
63-12/9



Adjust adjusting screw to assembled distance = 5.0 mm (0.197") with Special Tool 63 0 110.

Insert headlight with wires.

Important!
Check for correct routing of wires.

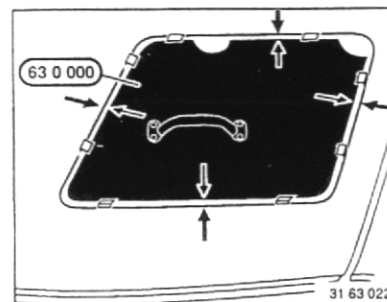


Tighten nuts only finger tight.

Note:
It must still be possible to move the headlight laterally.

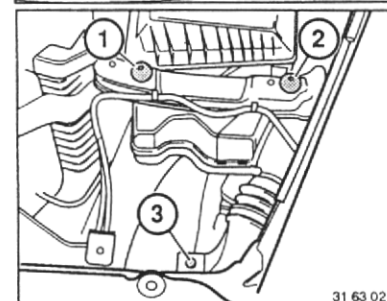
Check function of concealed headlights.

Important!
Only perform test if both headlights are connected, as otherwise a fault would be stored in the fault memory.



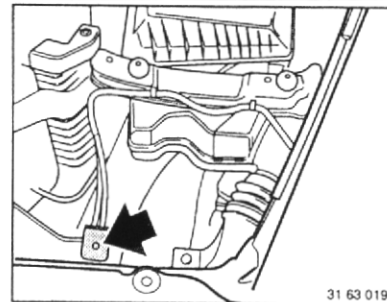
Mount Special Tool 63 0 000.
Shut engine hood carefully.

Important!
Don't damage paint finish of engine hood on the spacers.



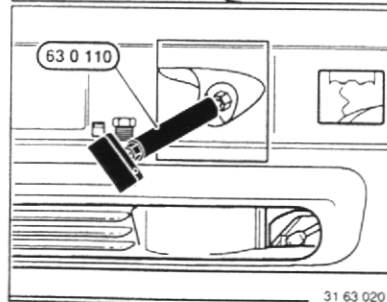
Correct the vertical adjustment with adjusting screws (1 ... 3).
Use Special Tool 63 0 110.

Note:
Concealed headlight was removed in picture for better illustration.



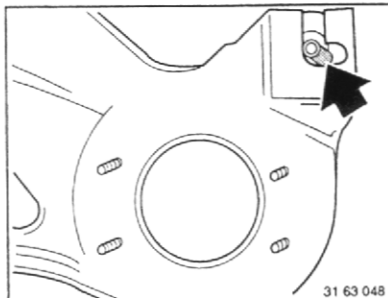
Remove the front light assembly (see 63 11 100) for vertical adjustment of the bracket.

Note:
Concealed headlight was removed in picture for better illustration.



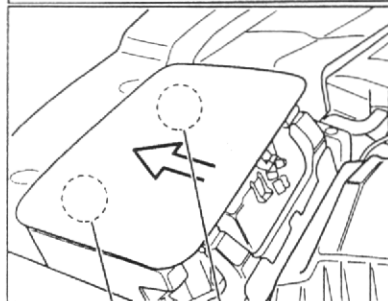
Adjusting screw for vertical adjustment (front light assembly removed).
Make vertical adjustment with Special Tool 63 0 110.

63-12/10



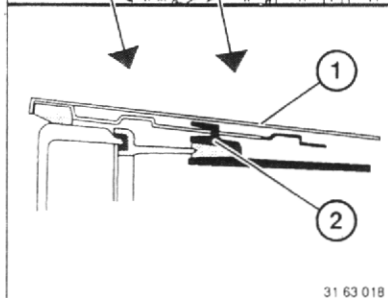
Installation:
Check installed position of the adjusting screw if the vertical adjustment cannot be corrected sufficiently. Check for correct position of adjusting screw.

Note:
Bracket was removed in picture for better illustration.



Tighten mounting nuts.
Take off special tool and mount cap.

Installation:
Check for correct seating of cap.

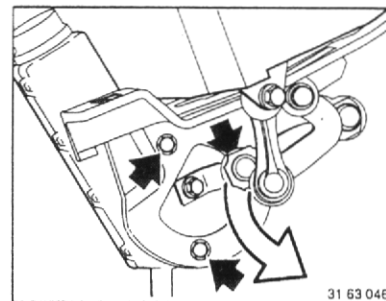


Shut engine hood.
Check spacing between engine hood and front side panels as well as concealed headlights and engine hood, repeating the adjusting procedures if necessary.

Check headlight aiming – see 63 10 004.

63 12 200 REPLACING DRIVE FOR LEFT OR RIGHT CONCEALED HEADLIGHT

Remove left or right concealed headlight complete with console – see 63 12 450.



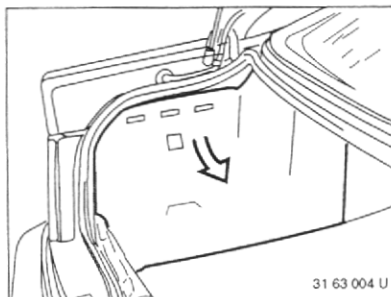
Take off linkage.

Important!
Don't change length of the linkage.

Unscrew screws.

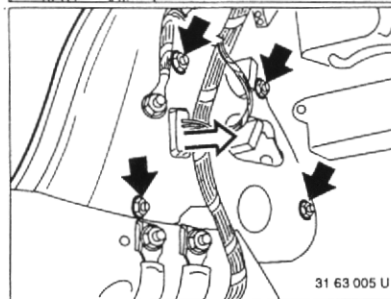
Remove drive.

63-21/1



63 21 ... REMOVING AND INSTALLING
OR REPLACING BOTH LEFT
OR RIGHT TAIL LIGHT AS-
SEMBLIES (ON SIDE PANEL
AND TRUNK LID)

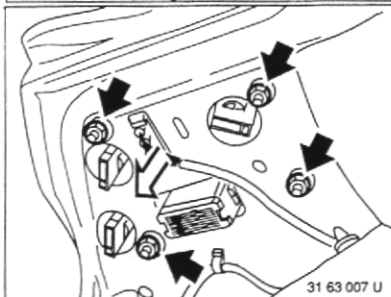
Unclip side trim panel.



Pull off plugs.
Unscrew nuts.
Lift out tail light assembly toward out-
side.

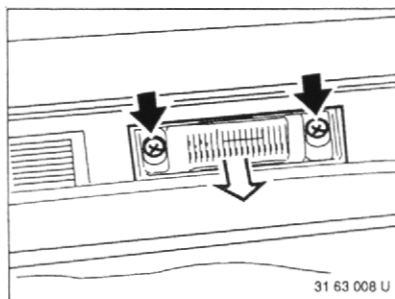


Turn retainers 90° and fold down trunk
lid trim panel.



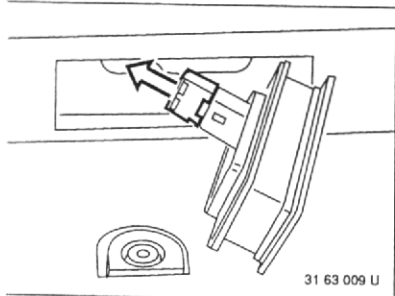
Pull off plugs.
Unscrew nuts.
Lift out tail light assembly toward out-
side.

63 - 26/1



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

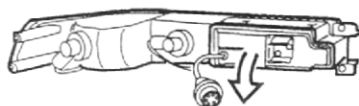
63 - 99/1

63 99 250 REPLACING LIGHT BULBS FOR FRONT LIGHT ASSY.

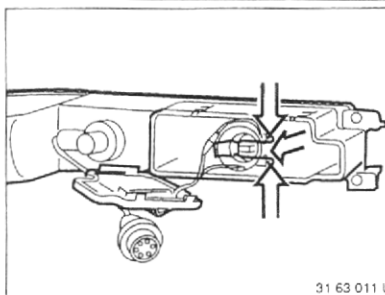
Remove front light assembly – see
63 11 100.

Replacing Light Bulb for High Beam Headlight

Unclip cover.

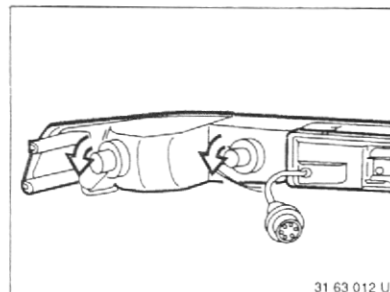


31 63 010 U



31 63 011 U

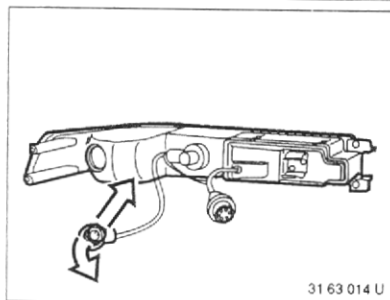
Disconnect plug (1).
Press in and unlock retainers.
Lift out light bulb.



31 63 012 U

Replacing Light Bulb for Turn Signal

Turn and lift out bulb holder

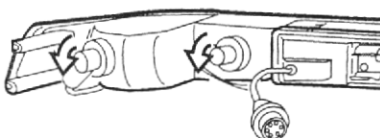


31 63 014 U

Twist and lift out light bulb.

Replacing Light Bulb for Parking Light

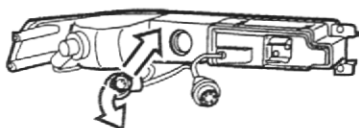
Turn and lift out bulb holder.



31 63 012 U

Twist and lift out light bulb.

Important!
Only use a double filament light bulb –
see Specifications.



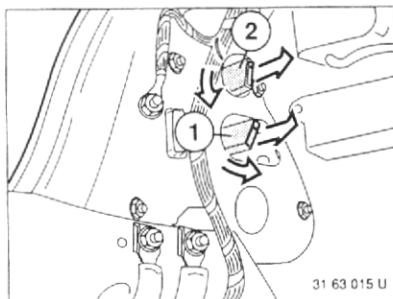
31 63 013 U

63 - 99/2

63 99 315 REPLACING LIGHT BULB
FOR LEFT OR RIGHT TAIL
LIGHTS (ON SIDE PANEL
OR TRUNK LID)

Light Bulbs in Side Panel:

Unclip side trim panel.



Turn and take out concerned bulb
holder.
Twist and remove light bulb.

Important!

Use correct light bulb type*.

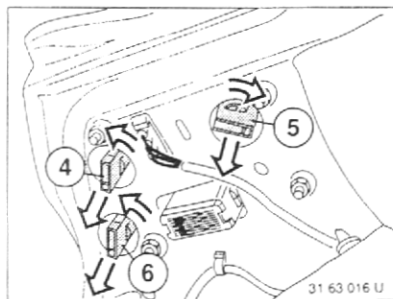
Arrangement:

1 =

2 =

Light Bulbs in Trunk Lid:

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



Turn and remove concerned bulb
holder.
Twist and remove light bulb.

Important!

Use correct light bulb type*.

Arrangement:

4 =

5 =

6 =