

63 10 542

Setting the high-beam headlight to prevent dazzle (with headlight adjustment aid)



Warning!

Danger of injury!

Laser radiation at headlight adjustment aid.

Do not look into the beam!



[Comply with test prerequisites for headlight adjustment!](#)

[Functional description of dazzle-free high beam](#)

Necessary preliminary work:

- [Adjust the low-beam headlight](#)
- [Remove the right and left engine compartment lid gasket mounting](#)
- Loosen filler pipes for windscreen washer fluid and keep aside:
 - Loosen right strut
 - Loosen heat shield

Note the Service Information (bulletin) [SI 02 11 11 782](#).



Important!

The dazzle-free high beam must only be adjusted with

headlight adjusting aid in the following case:

- In the case of a **further customer complaint** regarding the dazzle of the high beam **in spite of a previous setting with a headlight setting device**.
- In the case of a **first-time customer complaint** regarding the dazzle of the high beam set the dazzle-free headlight using a [headlight setting device](#).



Note:

Whether the vehicle has the optional equipment "dazzle-free high-beam headlight" can only be recognised with the combination of the following optional equipment:

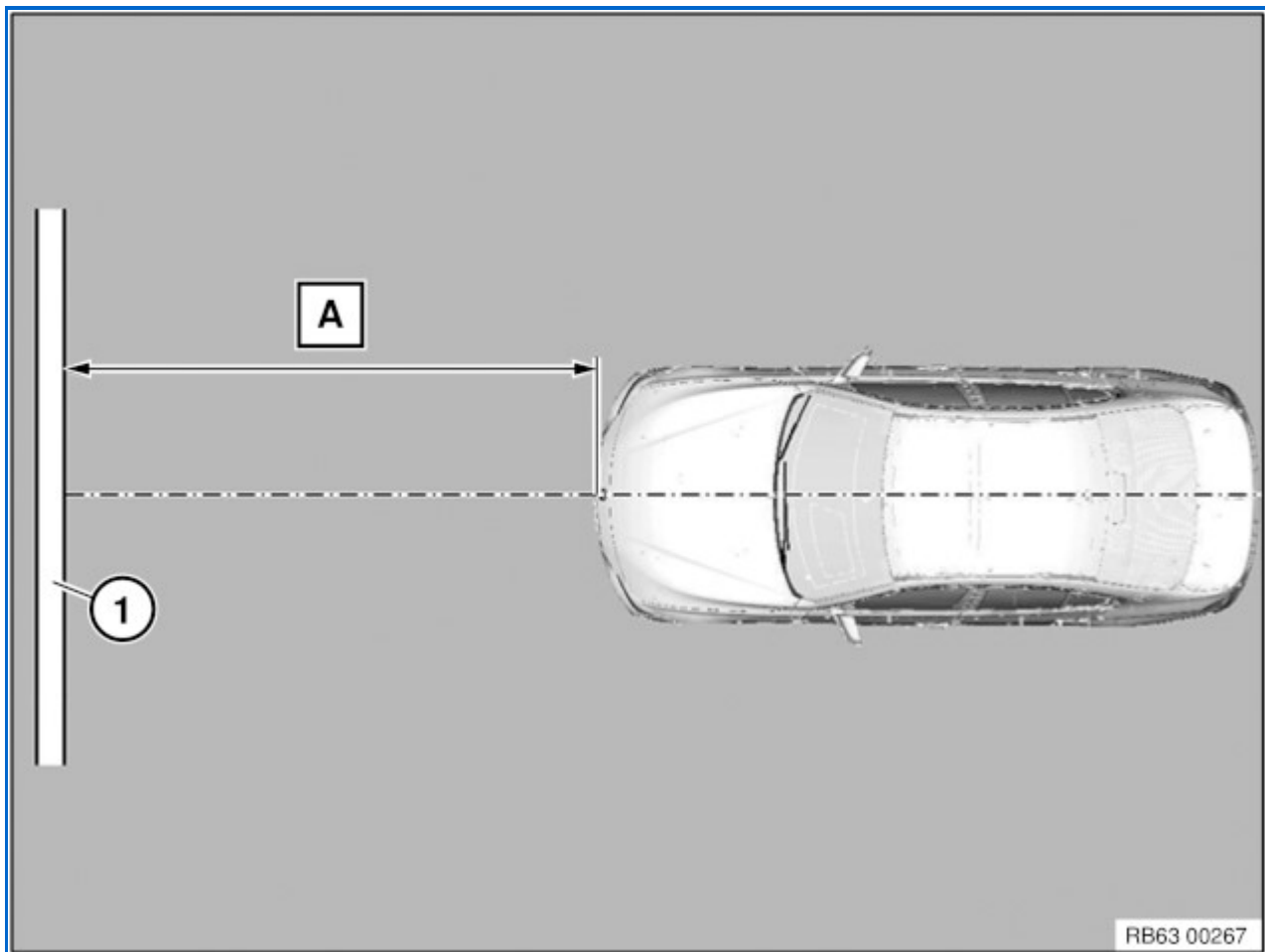
- "High-beam assistant" (5AC) **and** "adaptive headlight" (524) or "high-beam assistant" (5AC) **and** "adaptive LED headlight" (552)

Note:



First make the height and lateral adjustments of the low-beam headlight.

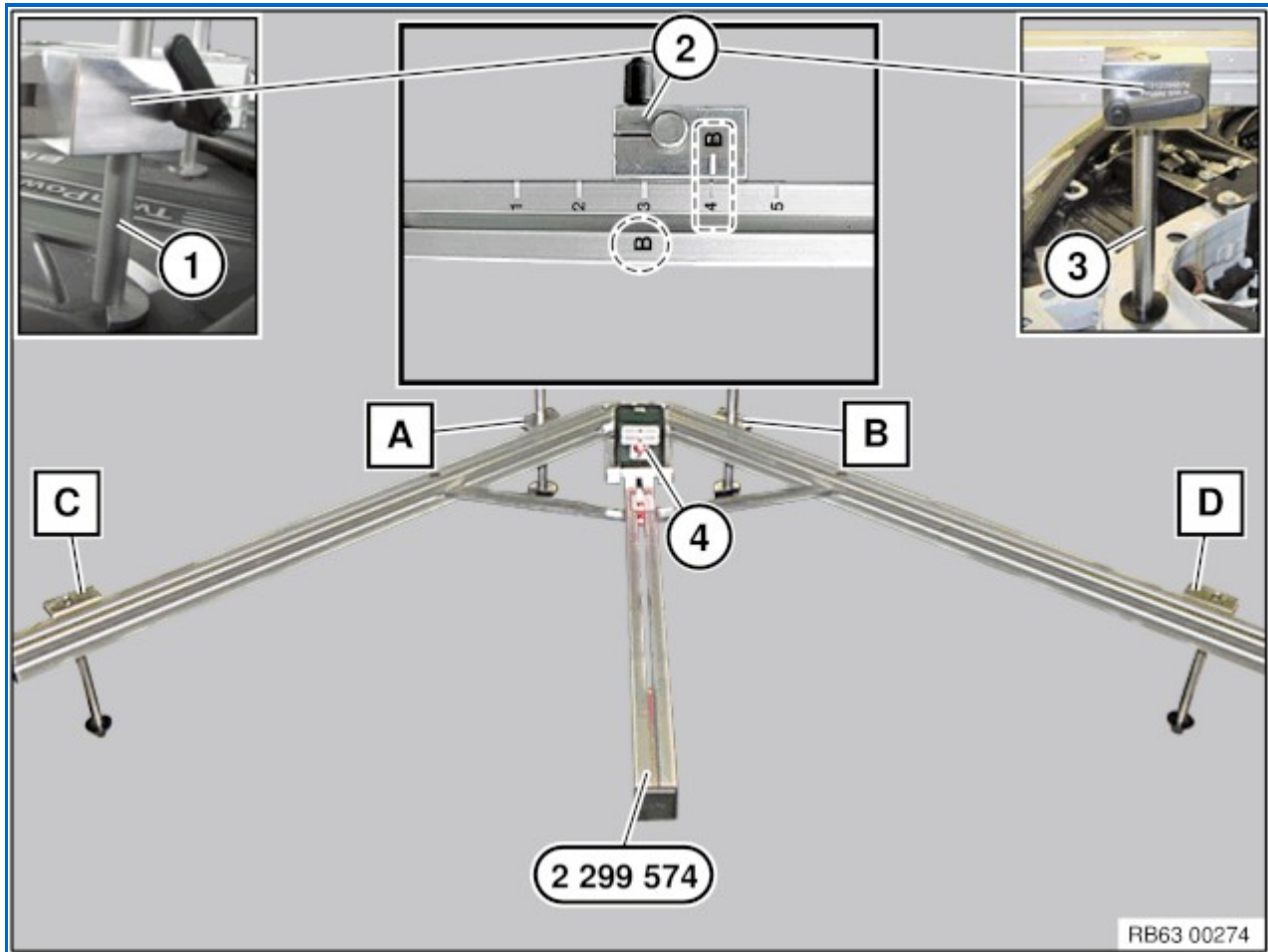
Afterwards check the lateral adjustment from the dazzle-free high-beam headlight, correct if applicable.



Prerequisites for adjusting the high-beam headlight to prevent glare using the headlight adjustment aid:

- Position vehicle in front of vertical surface, e. g. a wall (1), as shown.
- Distance (A): 4 - 10 m
- Dim lighting is helpful.

- Have a tape measure and black adhesive tape (maximum width of 2 cm) ready.



Note:

Headlight adjustment aid (2 299 574) and mountings (2) are labelled (see middle graphic):

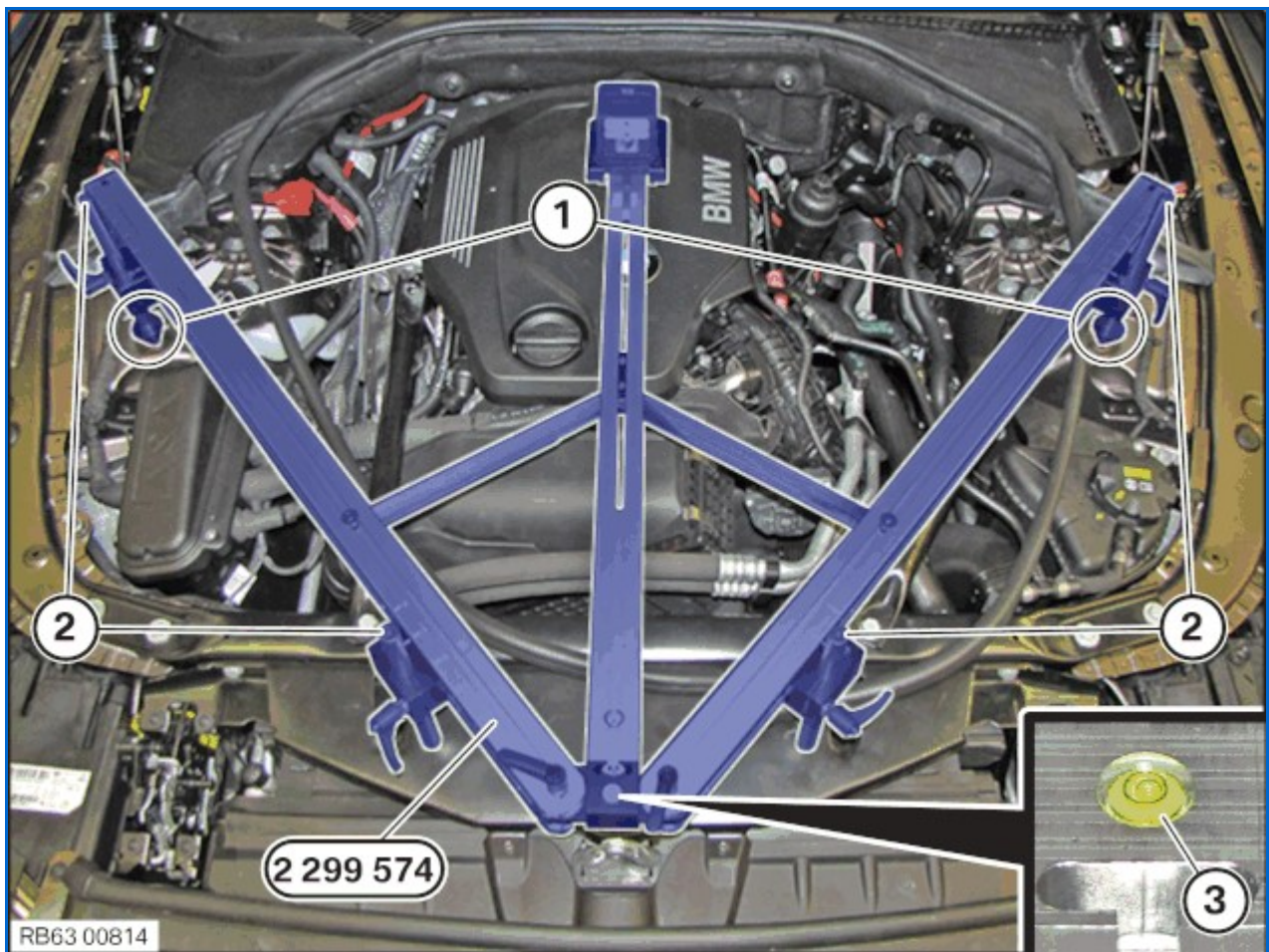
- Headlight adjustment aid (2 299 574) has label A, B, C, D with the associated numbers 1 to 5.
- Mountings (2) are labelled A, B, C, D.

Position of mounting (2) on headlight adjustment aid (2 299 574) is specified:

- Here by way of example mounting (B) at B4.

Prepare the headlight adjustment aid (2 299 574) as shown:

- Insert rods (1) into mountings (2) with identification (A, B) and clamp.
- Insert rods (3) into mountings (2) with identification (C, D) and clamp.
- Position front mountings (C, D) with rods (3) on headlight adjustment aid (2 299 574) as follows:
 - Mounting (C) at C5
 - Mounting (D) at D5
- Position rear mountings (A, B) with rods (1) on headlight adjustment aid (2 299 574) as follows:
 - Mounting (A) at A4
 - Mounting (B) at B4
- Secure the laser (4) on the adjustment aid of the headlight (2 299 574). To switch on the laser (4) slide up the flap in front of the laser (4).



Position headlight adjustment aid (2 299 574) at marked openings (1) in engine compartment as shown.

Align headlight adjustment aid (2 299 574) with longitudinally adjustable rods (2) using bubble level (3).



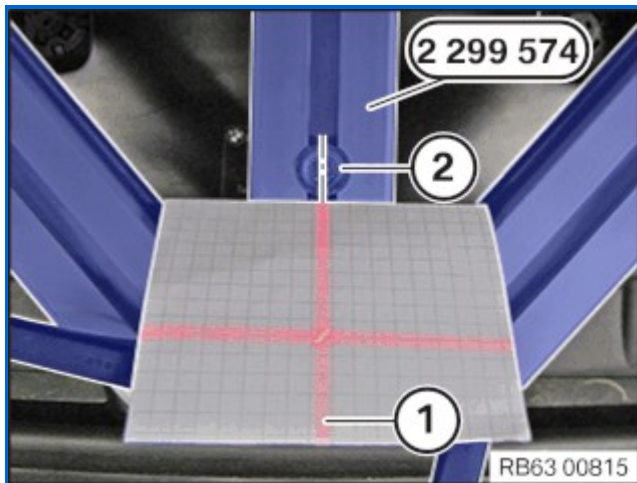
Important!

During the alignment of the adjustment aid of the headlight (2 299 574) by means of the bubble level (3) do not use the vehicle as a support!



Note:

The height of the headlight adjustment aid (2 299 574) has no influence on the setting.



Important!

When the high-beam headlight is correctly set to prevent dazzle, the laser beam is at the height of the middle of the vehicle.

Align laser (position 4 in image RB6300274) by slight twisting towards right or left in such a way that laser beam (1) meets exactly the centre of the screw (2).

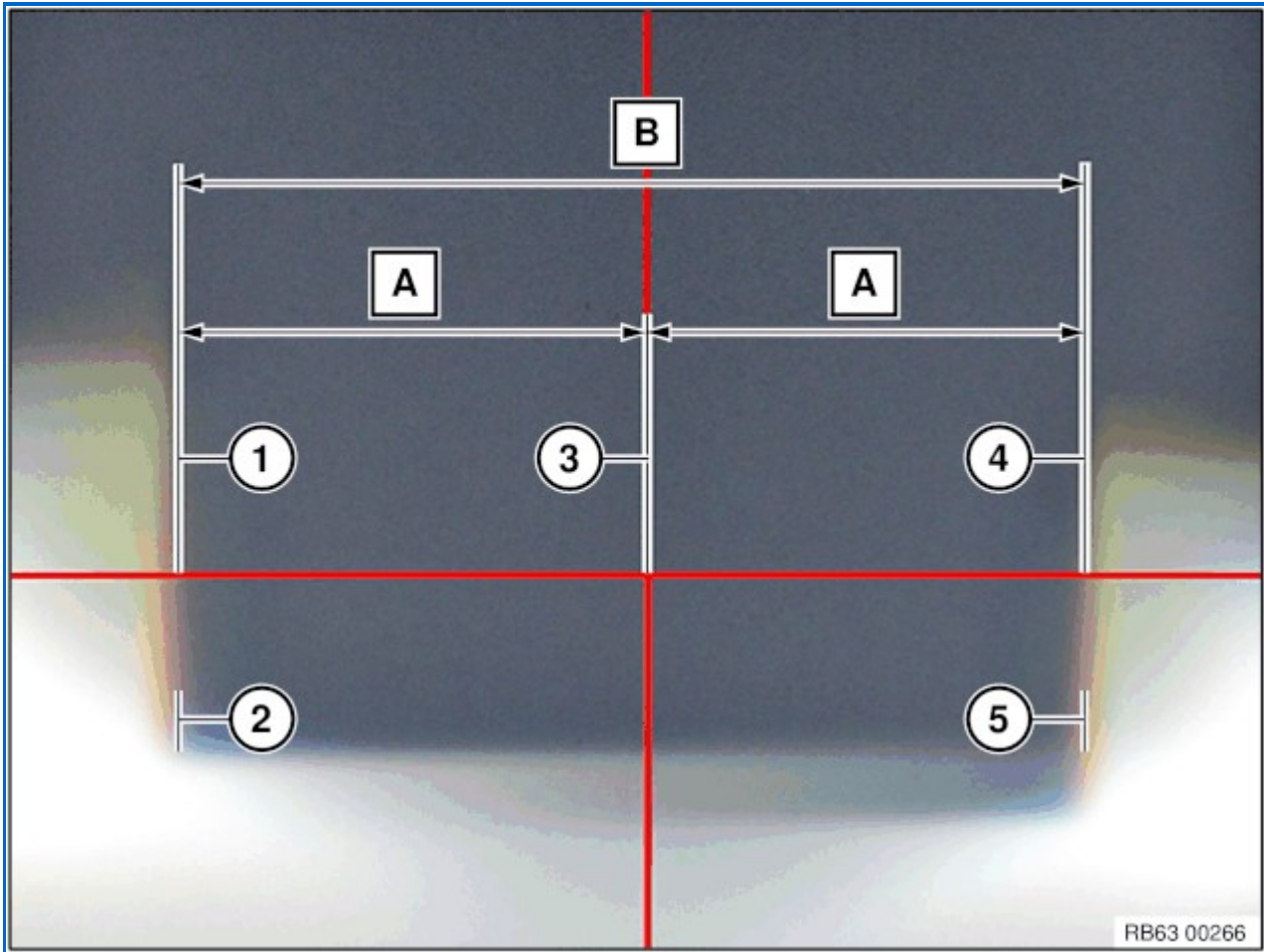


Switch the ignition on.

Switch on the low-beam headlight (high-beam headlight is switched on by the procedure).

Perform test procedure via path:

- Body
- Lights
- Adjust non-dazzle high-beam headlight

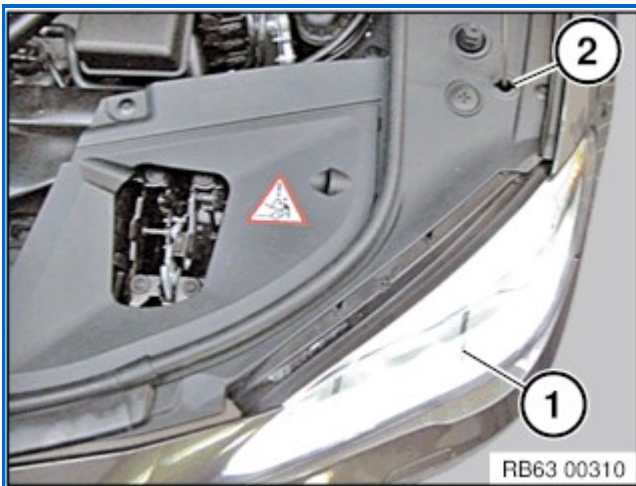


Check the dazzle-free high-beam headlight setting as follows:

1. Visibly mark the vertical line from the laser beam (3) on the wall using adhesive tape, for example.
2. Measure distance (A) (see the table below) between the line (3) and the left and right sides.
Visibly mark distance (A) on the wall using adhesive tape, for example (1, 4).
Distance (B): See table below
3. The light/dark boundary of the left high-beam headlight (2) without dazzle must be at mark (1).
4. The light/dark boundary of the right high-beam headlight (5) without dazzle must be

at mark (4).

Vehicle	Headlight type	Distance A	Distance B
F01, F02, F03	Xenon	71 cm	142 cm
F01, F02, F03	LED	74 cm	148 cm
F10, F11, F18	Xenon	69 cm	138 cm
F07, F10, F11, F18	LED	72 cm	144 cm



Adjust the dazzle-free high beam on the headlight (1) using screw (2), if required.