Installation manual

Carbon fiber roof attachment with highbeam LED-lamps, for W463, from MY 2019, article-no. 464-360-00_10, matte or glossy

The product described in the instructions was developed, produced and checked considering the necessary safety requirements.
In order to ensure a proper and safe function and to rule out danger for persons and objects, this product must be installed appropriately.
Only trained, qualified staff, having the necessary technical experience and tools, should perform the installation.
Therefore you have to read and completely understand these instructions.

Please read these instructions carefully and check the content of the parts supplied prior to assembly. Wear protective clothes.
For disassembly/ assembly of standard components please regard to Mercedes-Benz Workshop information system.
See reprimands on page 5. The assembly takes about 3 hours of labor.
Take care for sufficient cleanliness while assembly and regard to bonding hints on page 3.

Included in delivery of Brabus carbon fibre roof attachment, article-no. 464-360-00_10:

1x	Carbon fibre roof attachment matte/ glossy	464-360-001C/ 464-360-011C
1x	BRABUS-PDM connection wire	464-360-501
1x	Roof attachment wiring harness	464-360-502
2x	LED-highbeam lamps	463-360-04
1x	Rubber grommet FIX-S M20	52-653
1x	Roof attachment base part W464	464-360-002
1x	Template set left/ right.	464-360-003
4x	Left LED bracket	463-360-05
4x	Right LED bracket	463-360-06
10x	Plate nut M5	WU501105083
4x	Cable tie 3.6 x 200	WE24502668
4x	Adhesive socket for cable fixation B3,6	WU502636
1x	PU-Adhesive kit	B28/000-8
4x	Washer 5,3x15x1,25	WU411515
4x	Cylinder screw IS4 M5x40	WU08454
6x	Lens screw 7380 A2 5x16	WU09802516
1x	Drilling template	464-360-07
0,4m	Expansion tape	
1x	3M-Primer cloth	

Official technology-partners PIRELLI BILSTEIN Continental MOTUL YOKOHAMA ADVAN Member of VDA

Hints for adherence of body parts

The add on-parts for the car body can be bonded using the delivered adhesive, or using PU window adhesive in connection with appropriate primer .

When using the delivered adhesive all bonding areas (those of the car body and those of the add on parts) have to be sanded and properly cleaned and disgreased.

We recommend to use Würth window-adhesive (e.g. Würth, window adhesive „Classic“ or „Pro“, article-nos.: WU89002310, WU89002330), in connection with acetone cleaner (e.g. Würth, article-no.: WU893460) and primer (e.g. Würth, article-No.: WU890024101).
The primer gets attached to the bonding areas of the car body and the add on parts by using special primer brushes (e.g. Würth, article-no.: WU891650). Attach the primer only in one direction. After the primer has flashed off, apply an even line of adhesive and bond the part to the car. Remove excessive adhesive using suitable cleaner (e.g. Würth, article-no.: WU89010063).

For fixation of the parts until the adhesive is completely hardened,
we recommend to use vacuum brackets, (e.g. Würth, article-no.: WU069155210 )

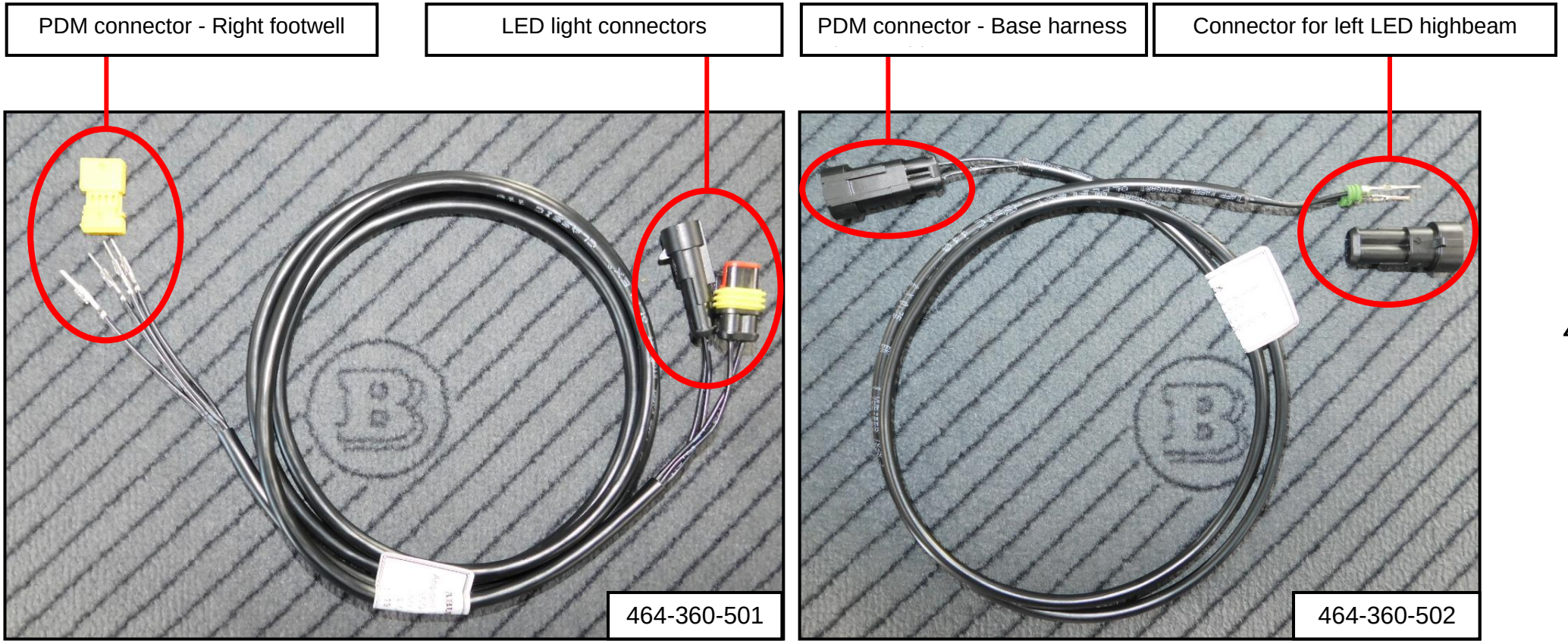
Remove paint fog prior to painting!

Take care not to apply the primer to areas which are still visible after bonding, apply up to 5mm away from the markings!

Regard to bonding hints and make sure the bonding areas are clean, free of grease and free of paint.

Official technology-partners PIRELLI BILSTEIN Continental MOTUL YOKOHAMA ADVAN Member of VDAT

Wiring harness overview:



Official technology-partners PIRELLI BILSTEIN Continental MOTUL YOKOHAMA ADVAN Member of VDA

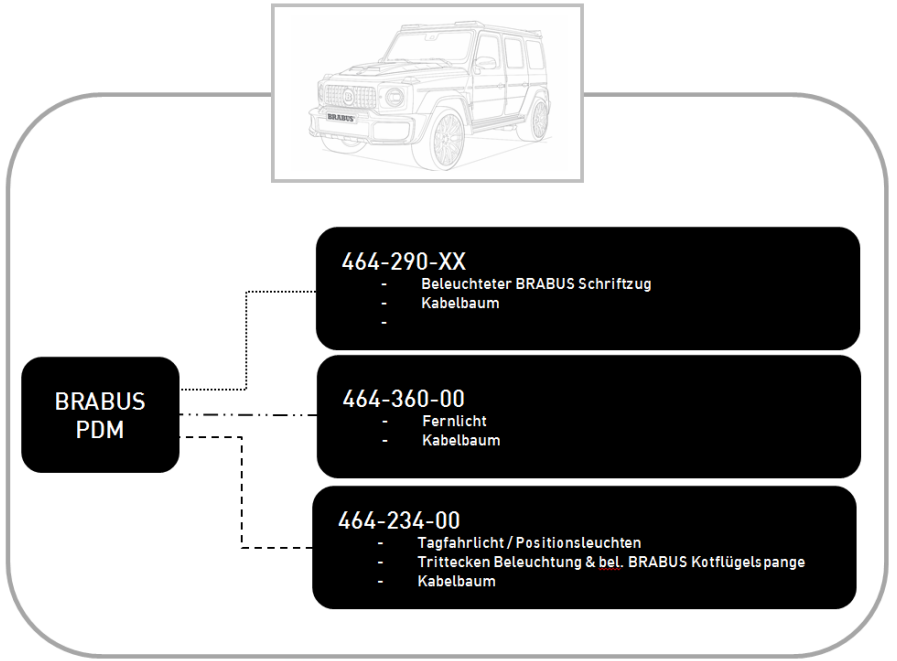
Preparation:

- Remove the right side dashboard cover.
- Remove the upper and lower a-pillar trims.
- Remove the right sun visor.
- Remove the right side handle bar.
- Remove the glove box.

Please note:

- The power supply of the LED high beam lamps is generated by the **BRABUS-PDM** system (**464-PDM-00**), the wiring harness 464-360-501 is just connected to the **BRABUS-PDM** outputs.

  Please follow the installation manual of the **BRABUS-PDM** while installation.

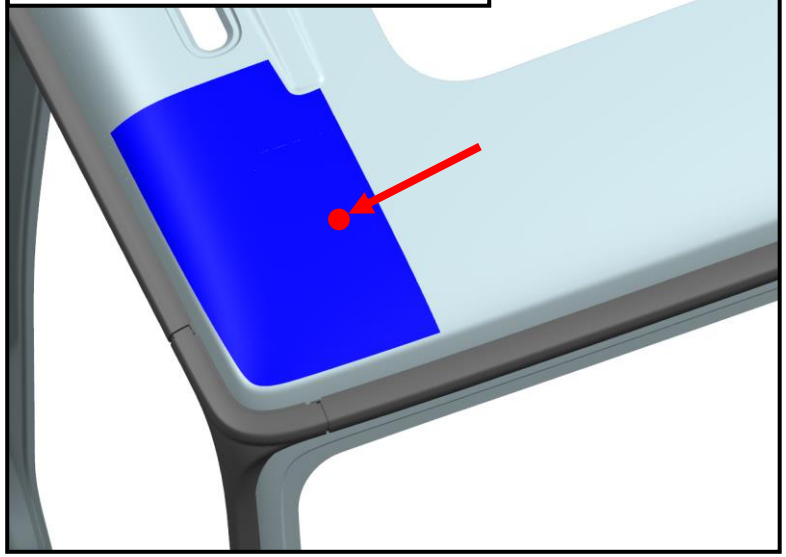


Official technology-partners PIRELLI BILSTEIN Continental MOTUL YOKOHAMA ADVAN Member of VDAT

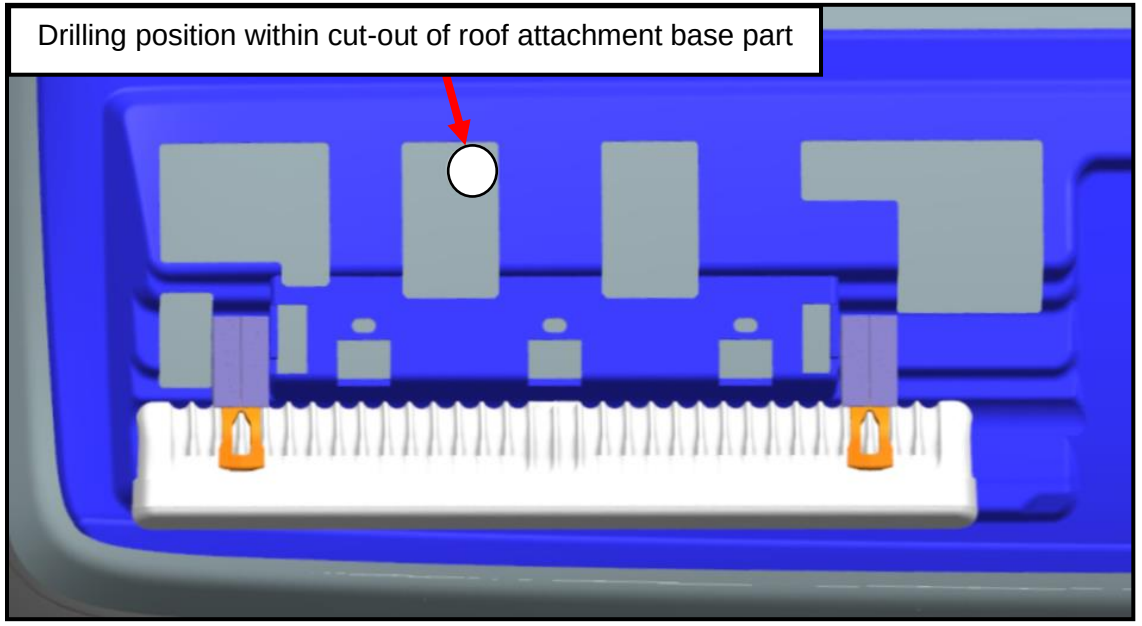
Assembly:

- Lay the drilling template to the vehicle roof according to illustration below. Fixate it using appropriate adhesive tape.
- Mark the drilling position to the vehicle roof (wire implementation) using a washable marker.
- Loosen the roof liner and make sure it cannot be damaged while drilling. It is recommended to keep the roof liner away from the vehicle roof while drilling by using appropriate measures. Vacuum drilling chips while drilling.
- Drill a 20mm hole at position marked.
- Deburr the drilling edges and seal them using appropriate measures (anti corrosive coating, touch-up applicator).

Template - right driving direction

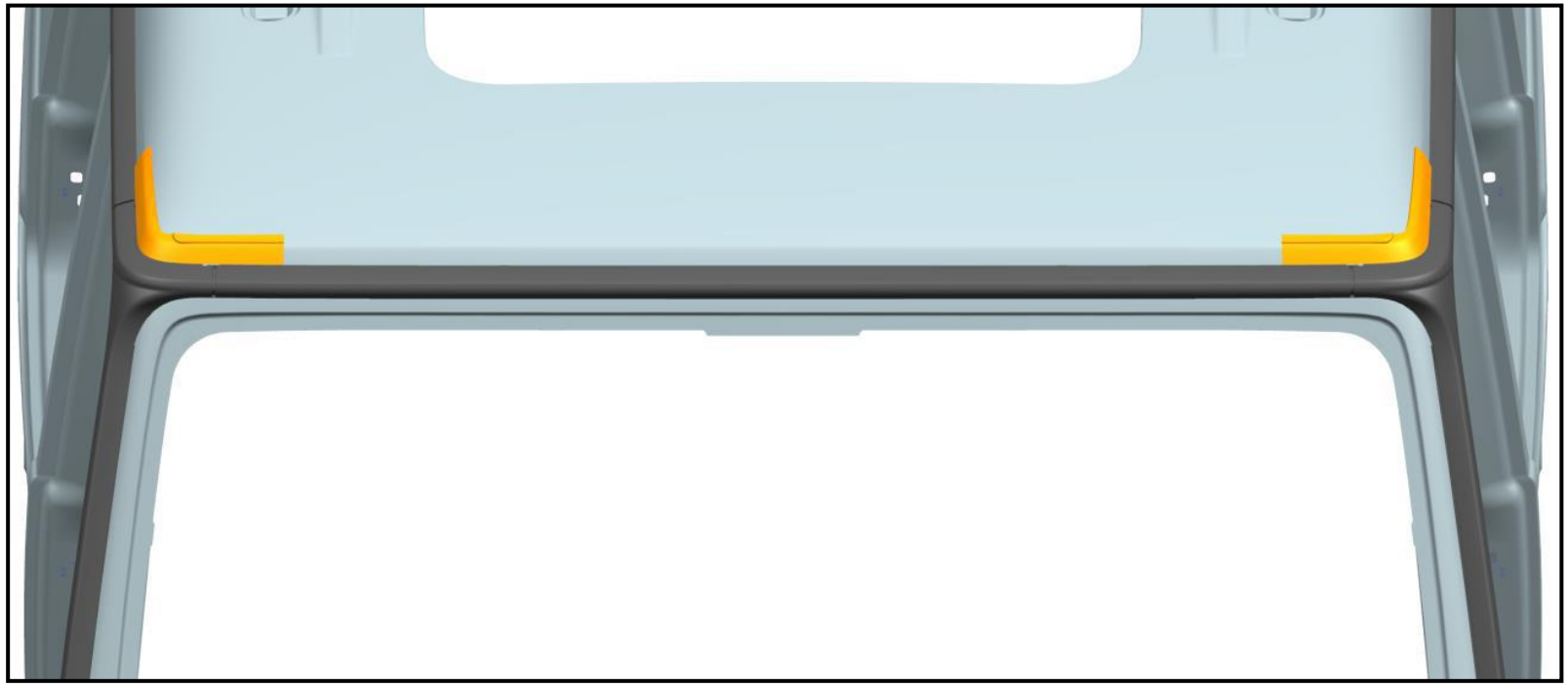


Drilling position within cut-out of roof attachment base part



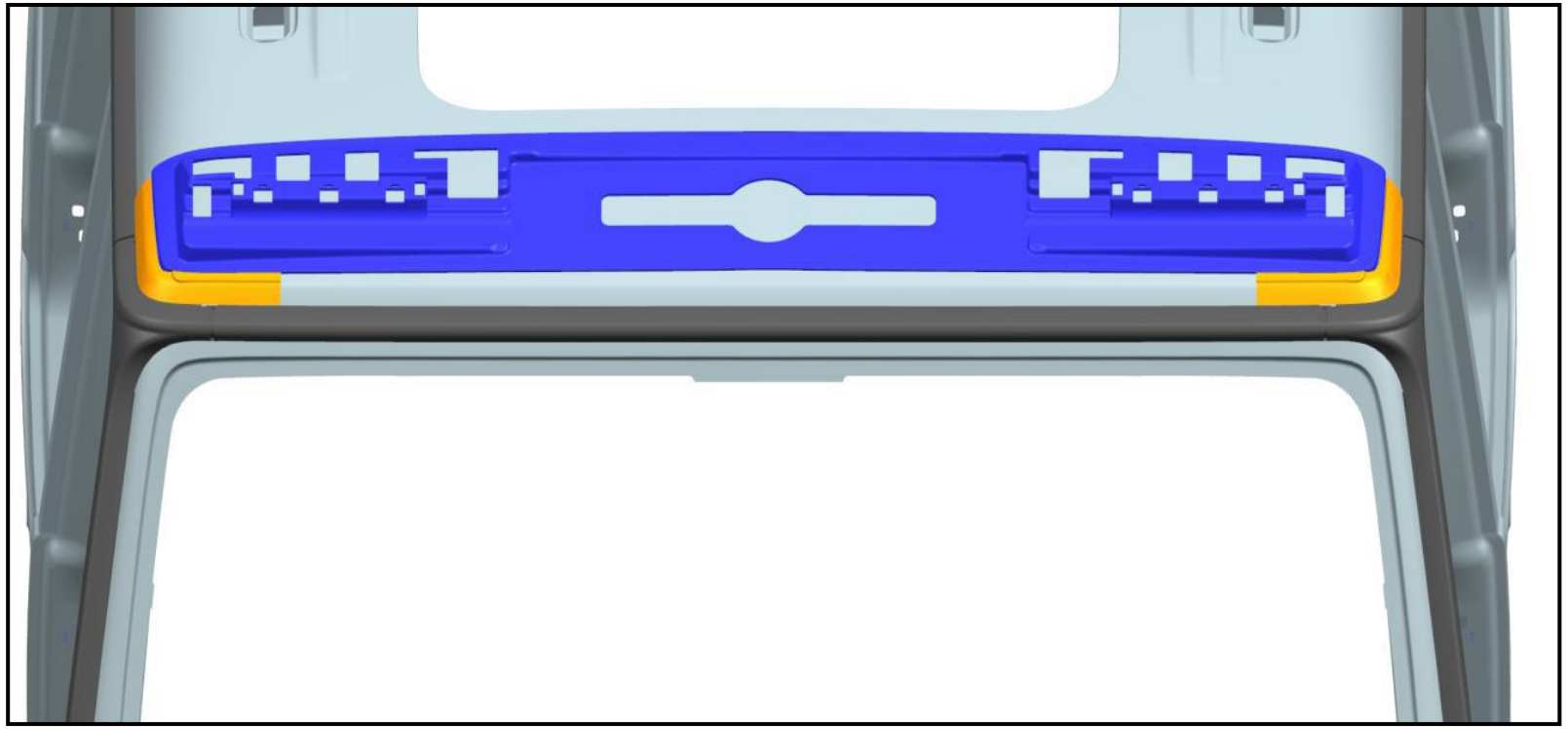
Official technology-partners PIRELLI BILSTEIN Continental MOTUL YOKOHAMA ADVAN Member of VDA

- Remove the drilling template, attach rubber grommet supplied to 20mm-hole.
- Lay the positioning templates for the roof attachment base part to the vehicle roof (according to illustration).
- Align the templates and fixate them using adhesive tape.



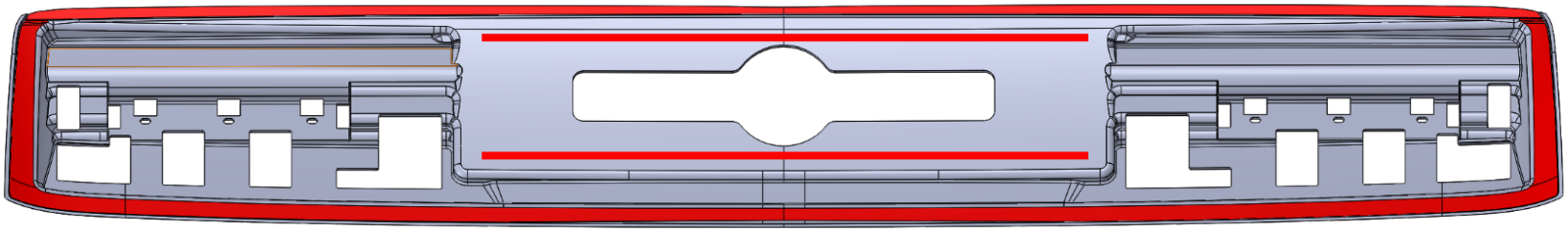
Official technology-partners PIRELLI BILSTEIN Continental MOTUL YOKOHAMA ADVAN Member of VDAT

- Lay the roof attachment base part to the vehicle roof (visualized blue with ill. below) and align it by usage of the templates.
- Mark the outer lines of the roof attachment base part to the vehicle roof using a washable marker.



Official technology-partners PIRELLI BILSTEIN Continental MOTUL YOKOHAMA ADVAN Member of VDA

- Prepare the bonding edges of the roof attachment base part and those on the vehicle roof for bonding according to bonding hints on page 3.



- Apply even lines of adhesive to the bonding edges of the roof attachment base part.
- Stick the roof attachment base part to the vehicle roof according to the markings.
- Remove excessive adhesive immediately!
- Fixate the roof attachment base part by appropriate measures (duct tape, vacuum brackets) until the adhesive has finally hardened.

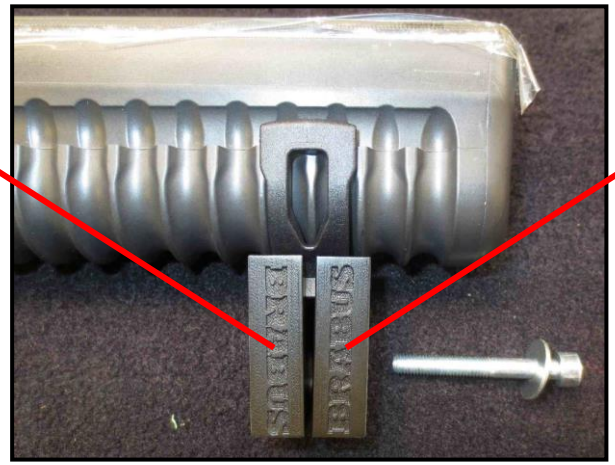


Official technology-partners PIRELLI BILSTEIN Continental MOTUL YOKOHAMA ADVAN Member of VDAT

- Remove the fixations after the adhesive has finally hardened, remove the markings on the vehicle roof.
- Attach the M5 plate nuts (10pcs) to the roof attachment base part bolt positions.
- Bolt the LED lamps to the roof attachment base part under usage of left brackets (463-360-05) and right brackets (463-360-06) according to images below.





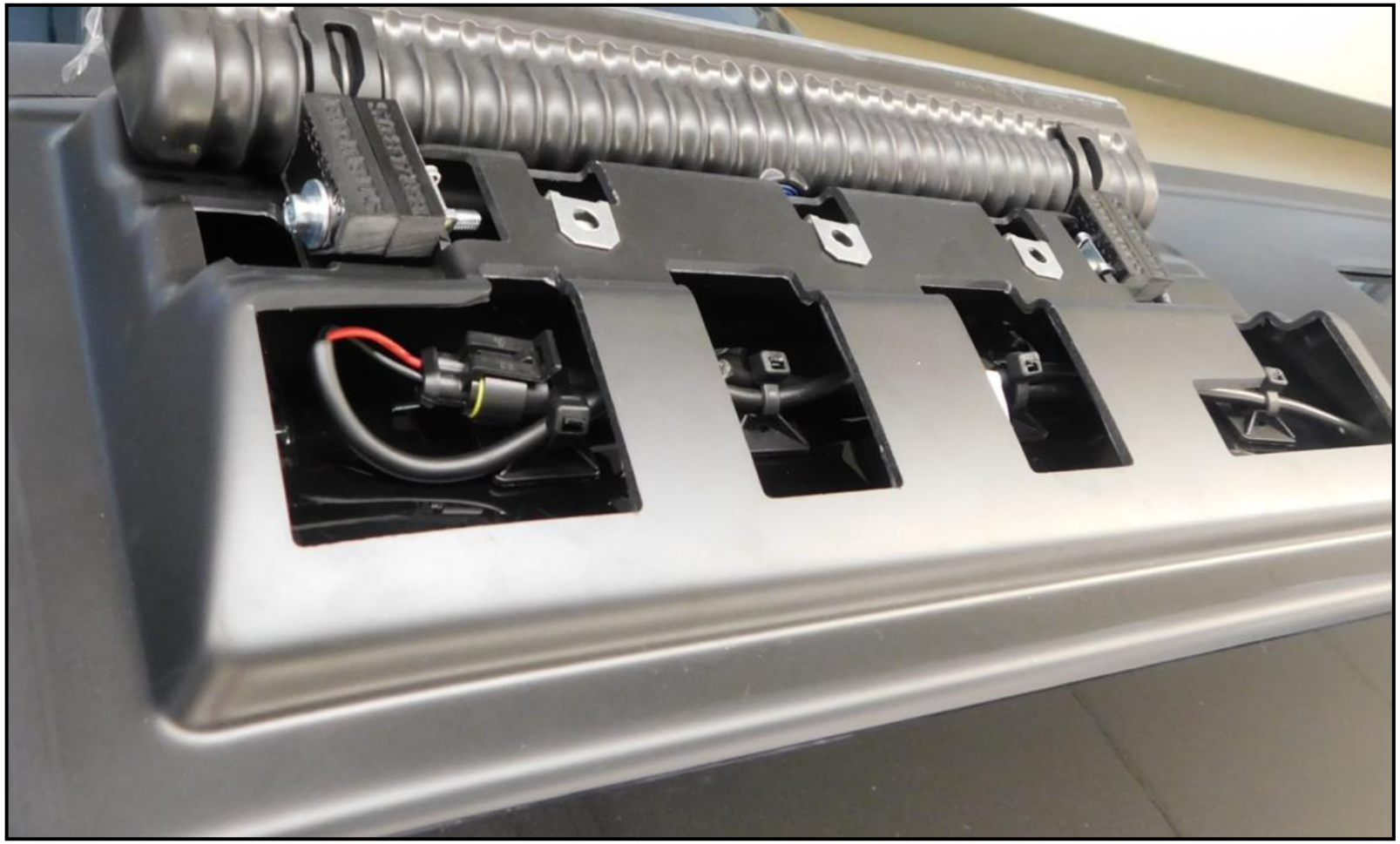


Left bracket / 463-360-05

Right bracket / 463-360-06

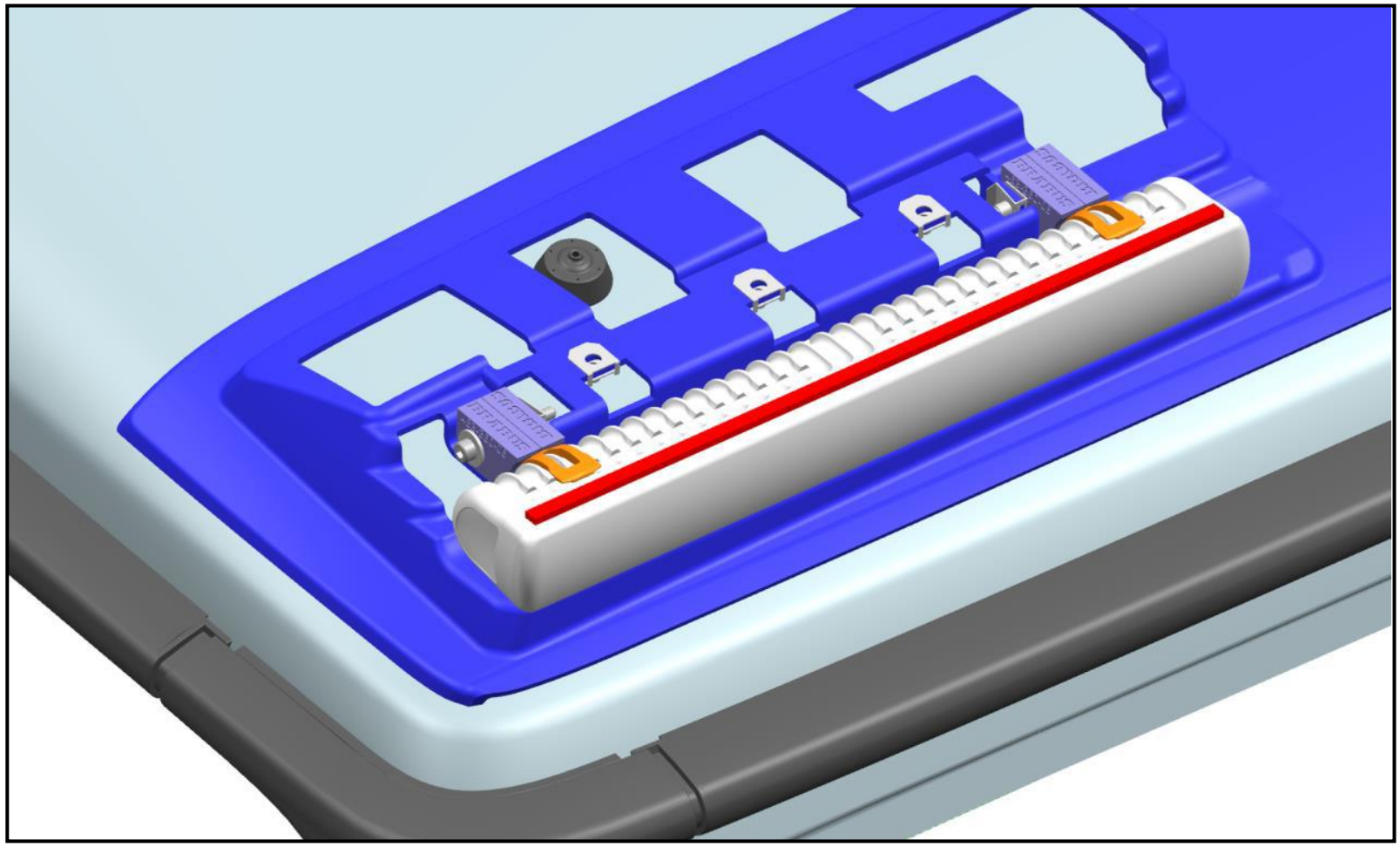
Official technology-partners PIRELLI BILSTEIN Continental MOTUL YOKOHAMA ADVAN Member of VDAT

- Connect the LED lamps to the wiring harness using plug supplied. Make sure for proper wire routing and fixate the wires using adhesive sockets and cable ties supplied.
- Route the base wire harness through the rubber grommet into the vehicle.



Official technology-partners PIRELLI BILSTEIN Continental MOTUL YOKOHAMA ADVAN Member of VDA

- Attach sufficient pieces of expansion tape supplied to the top of the LED lamps according to illustration below.

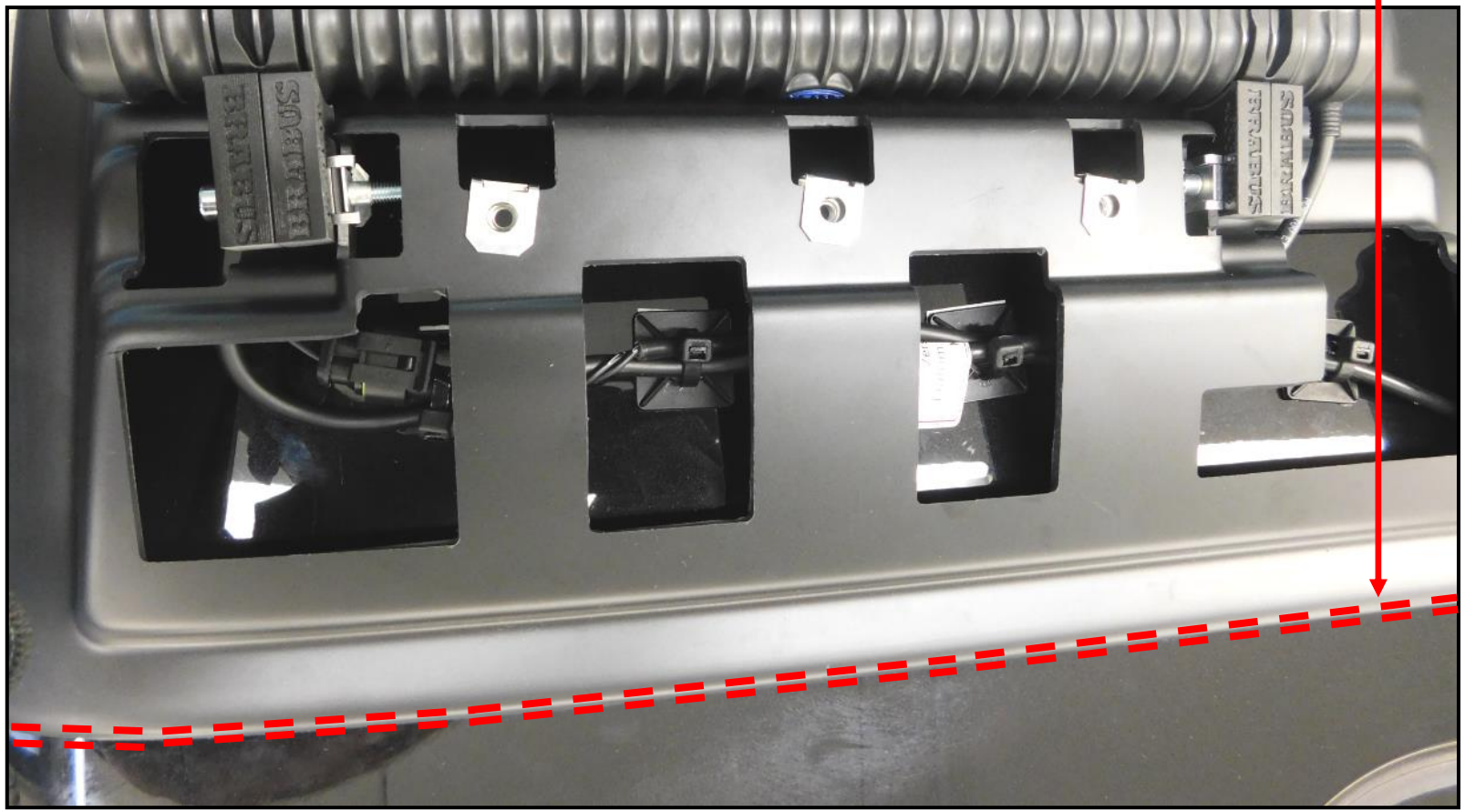


Official technology-partners PIRELLI BILSTEIN Continental MOTUL YOKOHAMA ADVAN Member of VDAT

- Degrease the rear edge of the roof attachment base part and the roof area in front of the roof attachment base part. Apply primer to the areas marked red within illustration using the 3M primer cloth supplied.

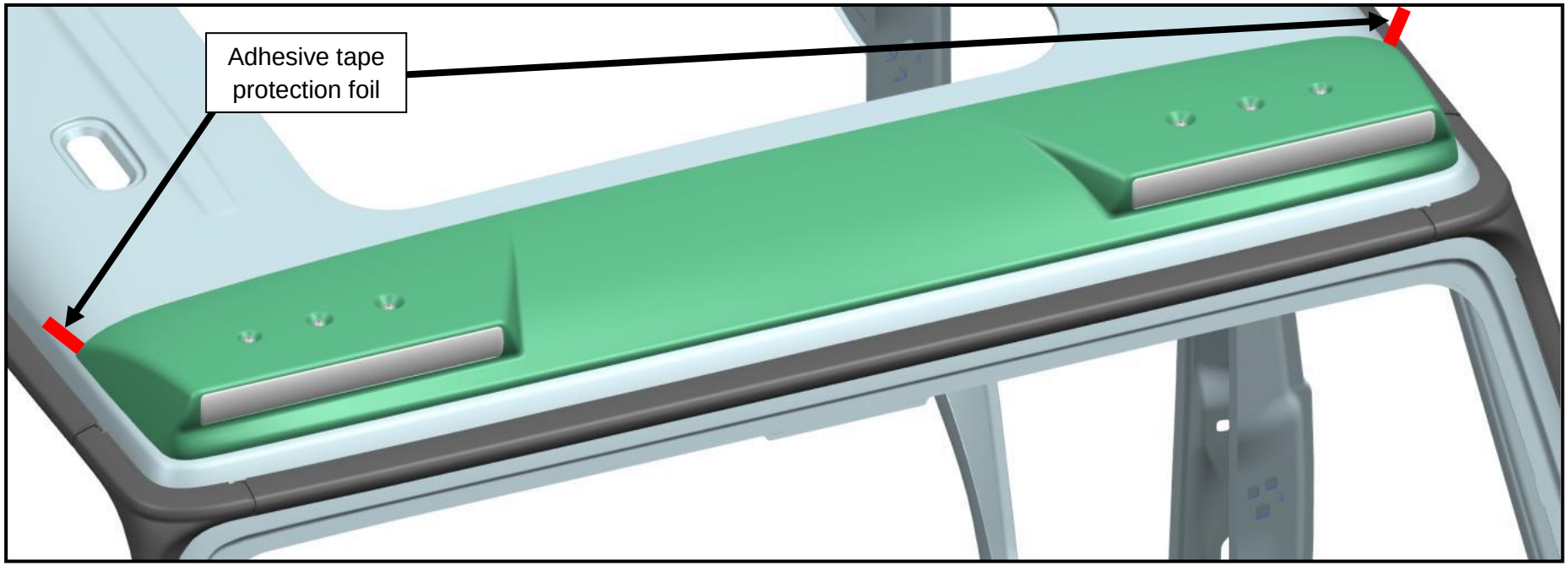


- Let the primer flash off for ten minutes.



Official technology-partners PIRELLI BILSTEIN Continental MOTUL YOKOHAMA ADVAN Member of VDAT

- Attach the lower carbon fiber cover part edge to the roof attachment base part. Pull it backward and fold it down. The adhesive tape protection foil must protrude on the left and right side to be able to remove it after assembly.
- Attach the 6 bolts supplied (do not yet tighten).



Official technology-partners PIRELLI BILSTEIN Continental MOTUL YOKOHAMA ADVAN Member of VDAT

- Check the fitment of the LED lamps and the carbon fiber cover for flushness. Remove the carbon fiber cover part and re-align the lamps, if necessary. Re-check for flush alignment.



- When the alignemnt has been properly performed re-attach the bolts to the roof attachment cover part (do not yet tighten).
- Press the rear edge of the carbon fiber cover part down to the vehicle roof and carefully remove the adhesive tape protection stripe beginning on one vehicle side (2 persons required). Firmly press the rear edge down to the vehicle roof again after having removed the protection foil.
- Tighten the bolts of the carbon fiber cover part.

- Route the LED lamp wiring harness down into the footwell and to the **BRABUS-PDM**.
- Attach the contacts of the roof attachment wiring harness to the yellow MQS socket supplied (according to designations 1, 2, 3, 4). Connect the yellow plug of **BRABUS-PDM** to the yellow socket of the roof attachment wiring harness (Outputs 1 & 2).



- Perform a function-check. The LED lamps do operate simultaneously to the standard high beam light.
- After having performed a function-check re-attach all trim parts according to Mercedes-Benz Workshop Information System.