Carbon fiber roof attachment for W465

465-360-CG_CM

BRABUS



Installation Manuel

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.
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Included in delivery of Brabus carbon fibre roof attachment, article-no. 465-360-CG_CM:

1x	Carbon fibre roof attachment matte/ glossy	465-360-CG/CM-ZB
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	Carrier part	465-360-002
1x	Left insert	464-360-005
1x	Right insert	464-360-004
4x	Left bracket	463-360-05
4x	Right bracket	463-360-06
12x	Plate nut M5	WU501105083
4x	Cable tie 3.6 x 200	WE24502668
4x	Adhesive socket for cable fixation B3,6	WU502636
4x	Washer 5,3x15x1,25	WU411515
4x	Cylinder screw IS4 M5x40	WU08454
8x	Lens screw 7380 A2 5x16	WU09802516
1x	Drilling template	464-360-07
1x	Adhesive Set 80ml	B28/000-8
1x	3M-Primer cloth	

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Notes on bonding

The add on-parts for the car body is to be bonded by PU window adhesive in connection with appropriate primer.

The plastic carrier part has to be sanded and properly cleaned and degreased by using acetone!

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 )

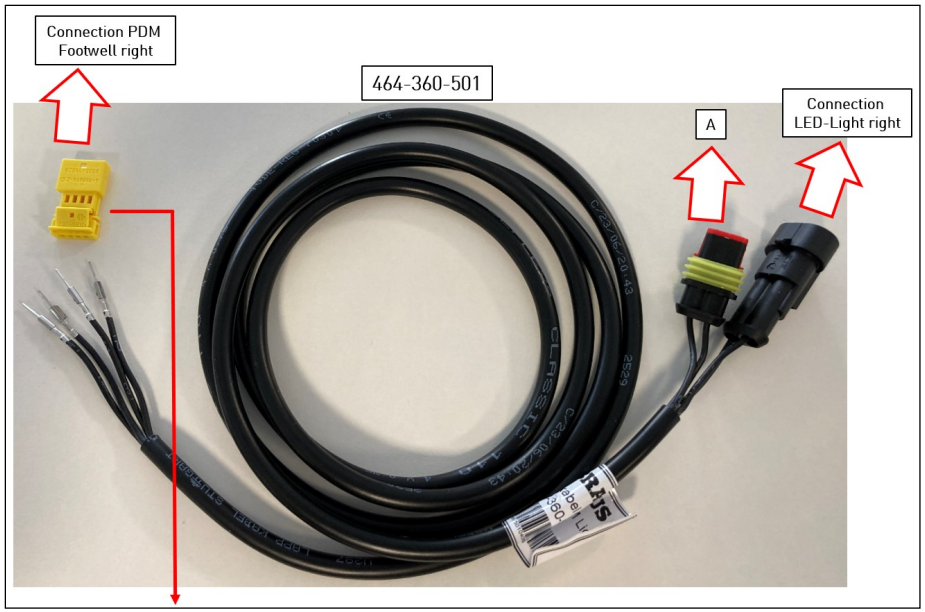
Remove paint fog prior to painting!

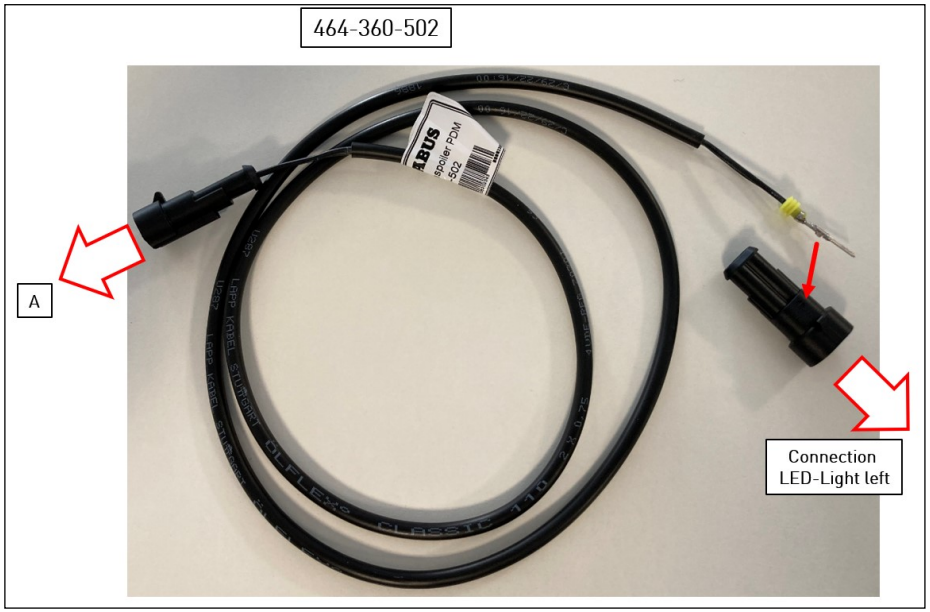
Take care not to apply the primer to areas which are still visible after bonding, apply up to 5mm away from the markings!

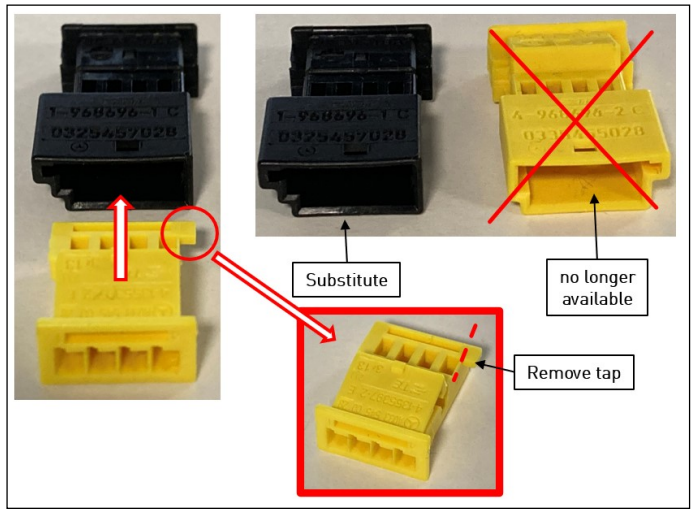
Regard to bonding hints and make sure the bonding areas are clean, free of grease and free of paint.

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Overview cable sets:







It may be necessary to remove the marked tab on the yellow plug for some cable sets. The yellow plug is omitted and replaced by the black one. No connection to the black plug can be made through the tab.

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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:

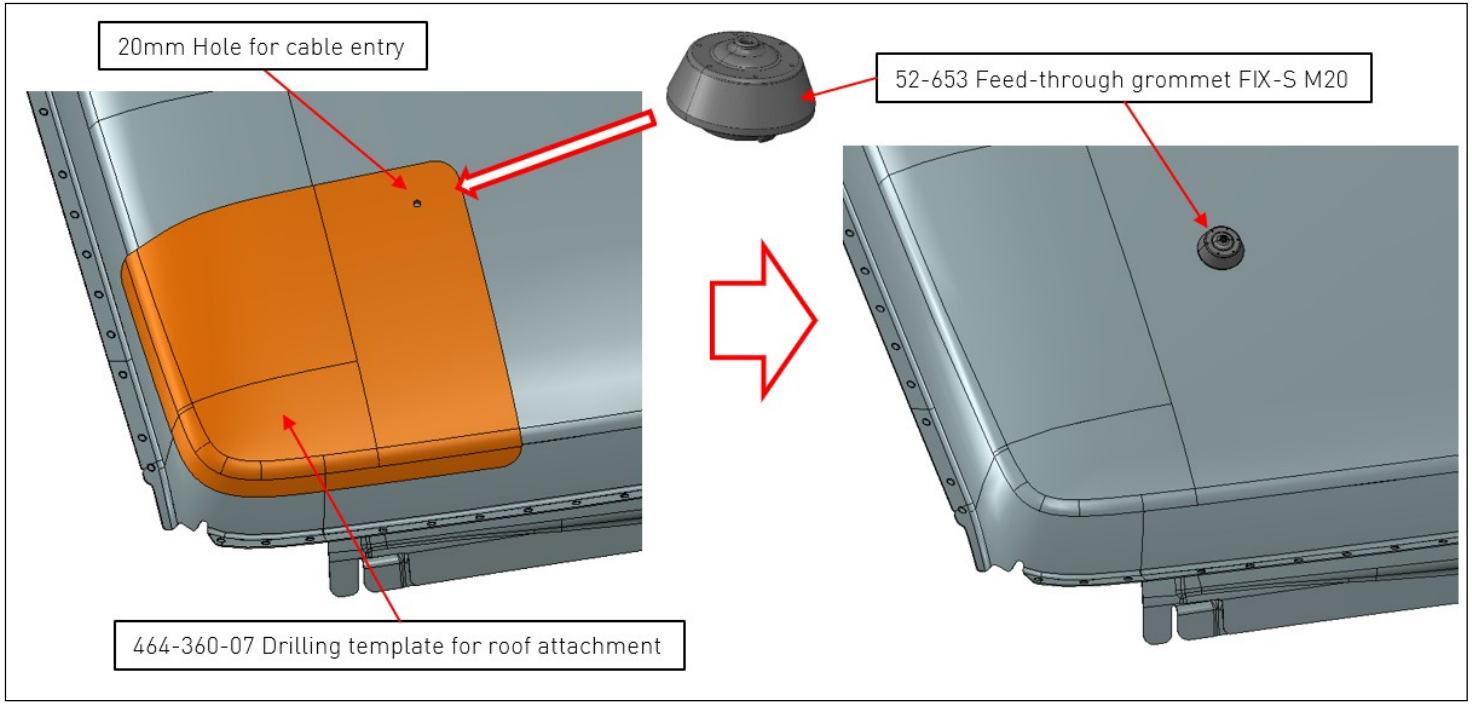
- The power supply of the LED high beam lamps is generated by the BRABUS-PDM system (464-PDM-00), the wiring harness 464-360-501 is just connected to the BRABUS-PDM outputs.

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

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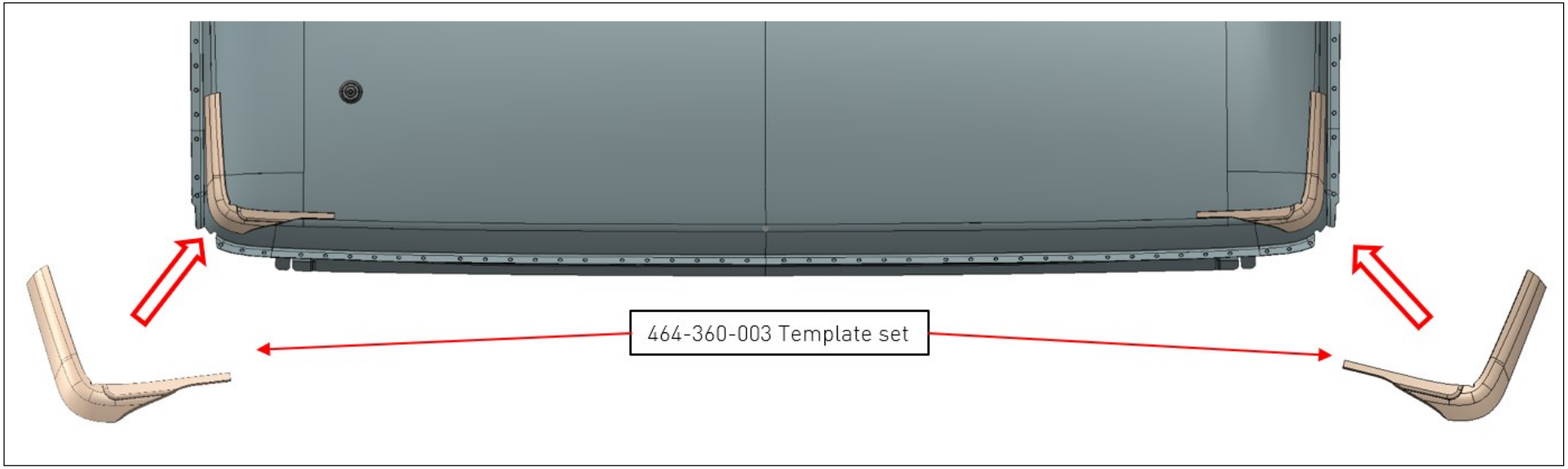
Assembly:

- 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).
- Remove the drilling template and insert the supplied rubber grommet into the hole.



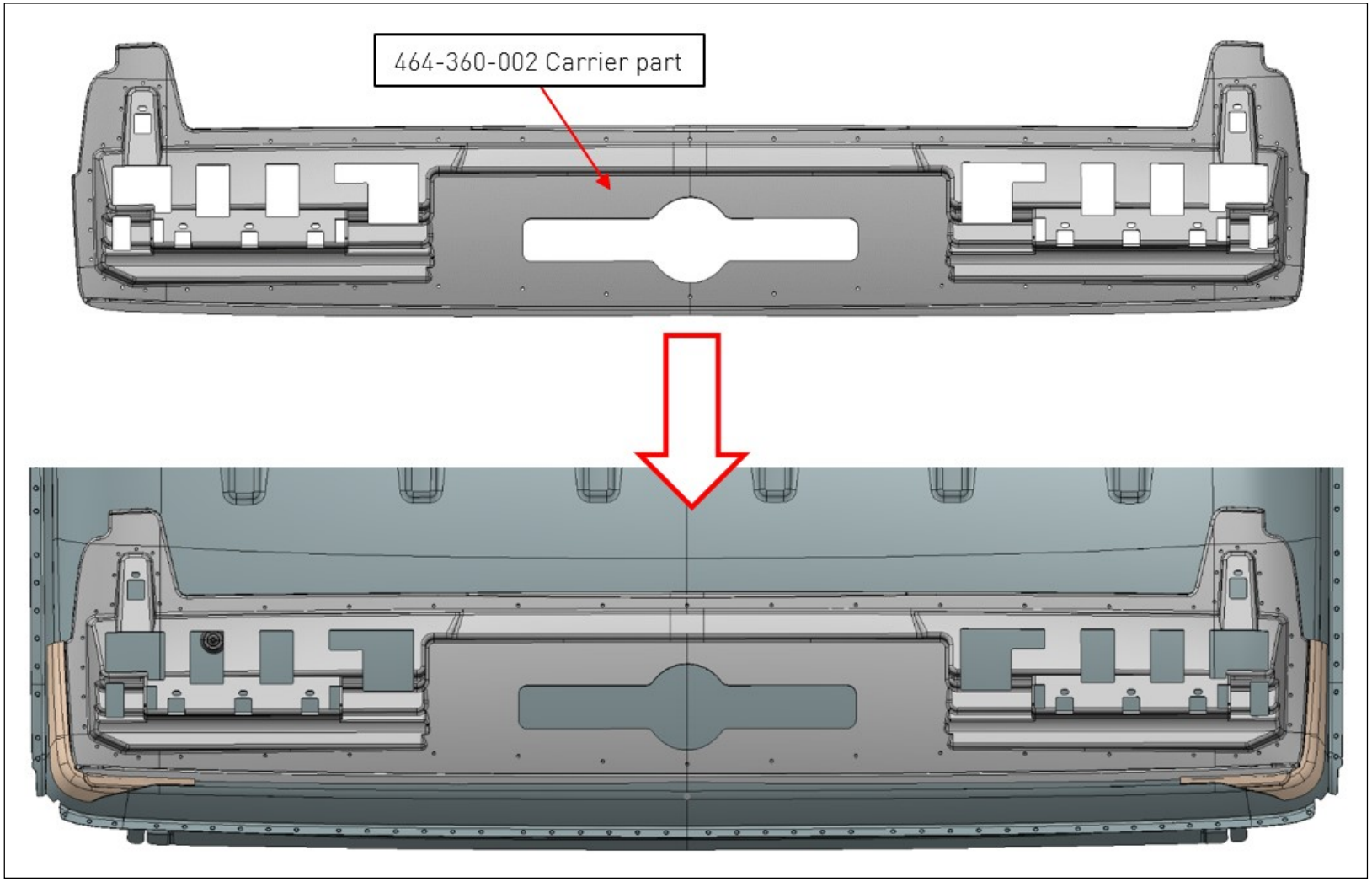
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- Place the positioning templates from the scope of delivery on the vehicle roof as shown in the illustration.
- Align the templates and fix them in place with suitable adhesive tape.



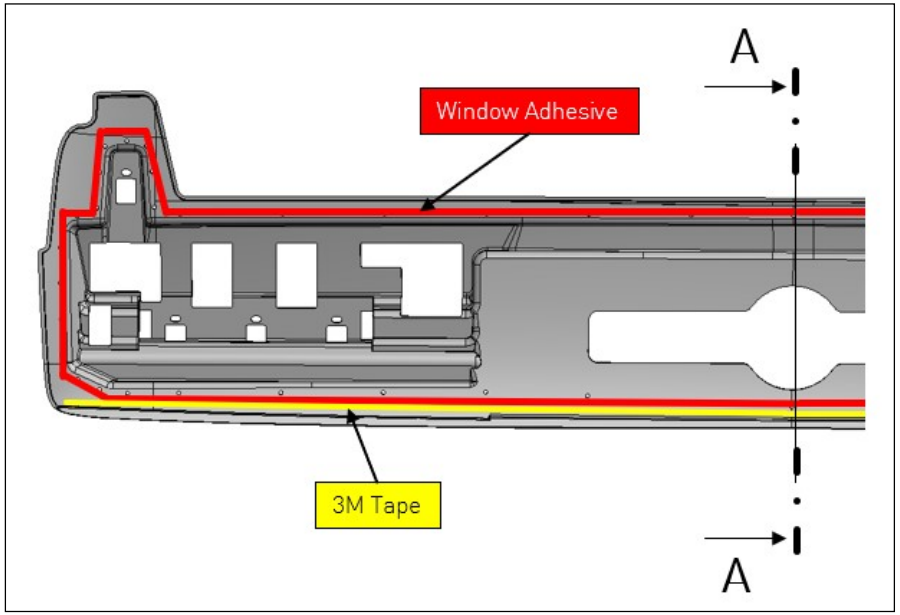
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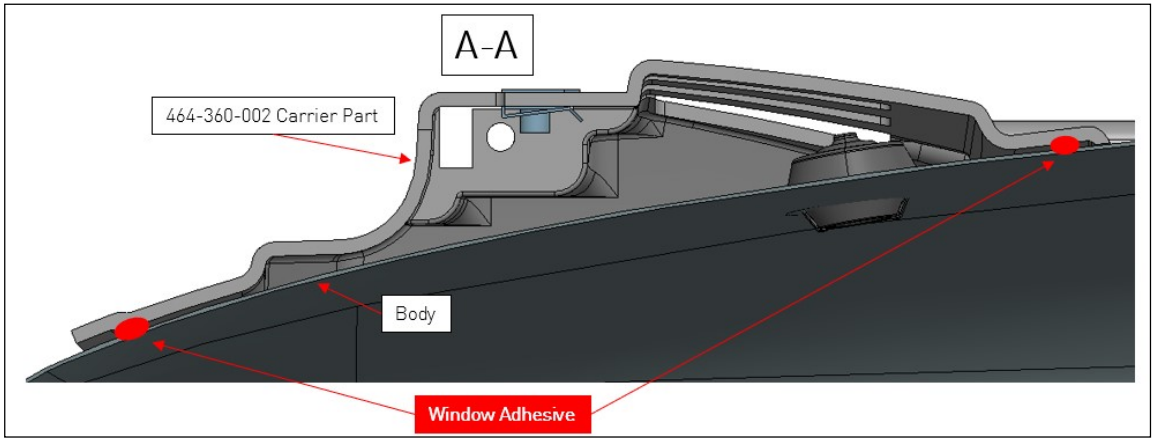
- Place the carrier part of the roof attachment (shown in light gray) on the vehicle roof and align it according to the positioning templates.
- Mark the position of the carrier along the outer contours with a washable marker on the vehicle roof.



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- Prepare the bonding surfaces on the vehicle roof and the carrier part for bonding in accordance with the bonding instructions on page 3.

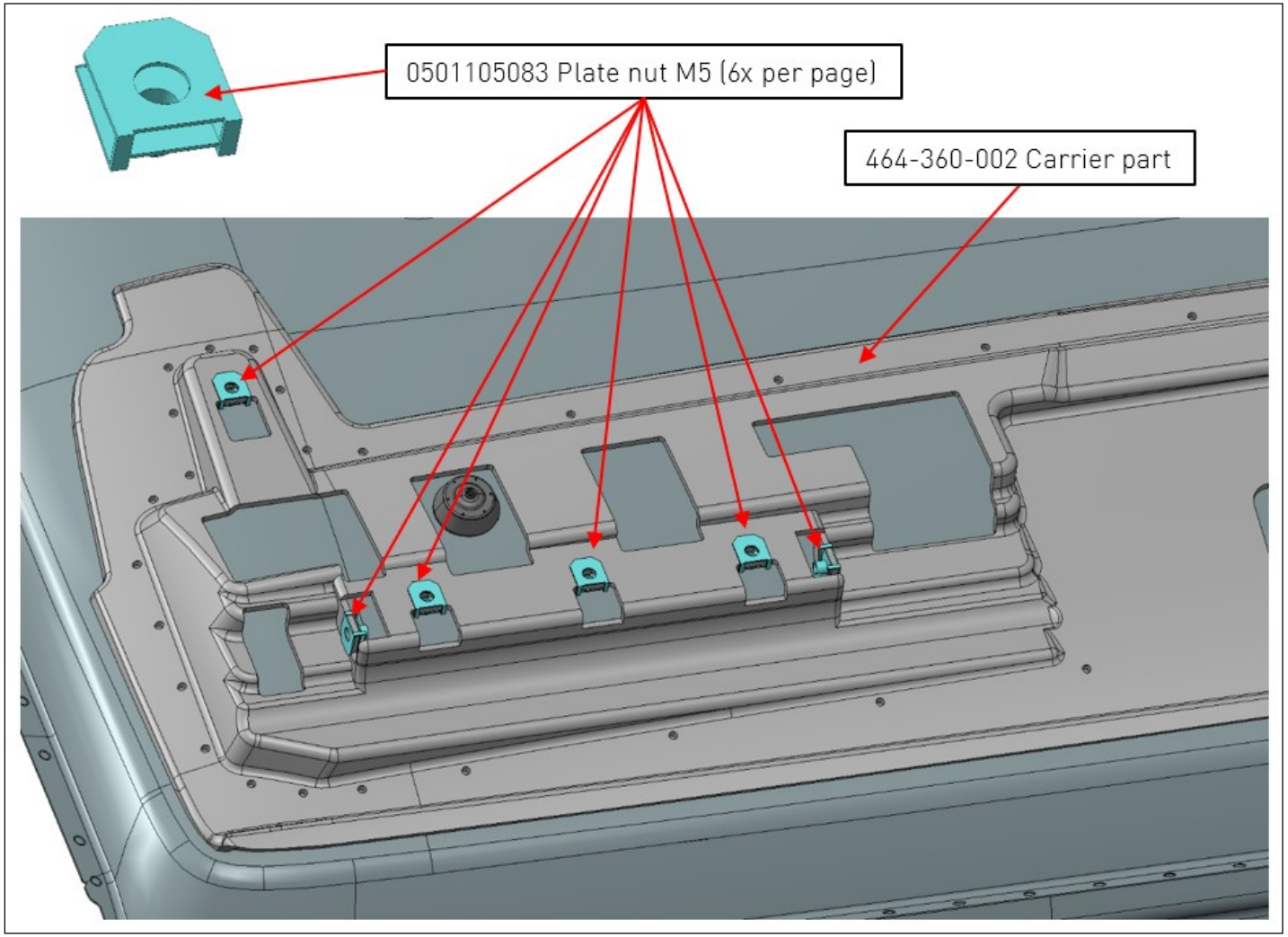




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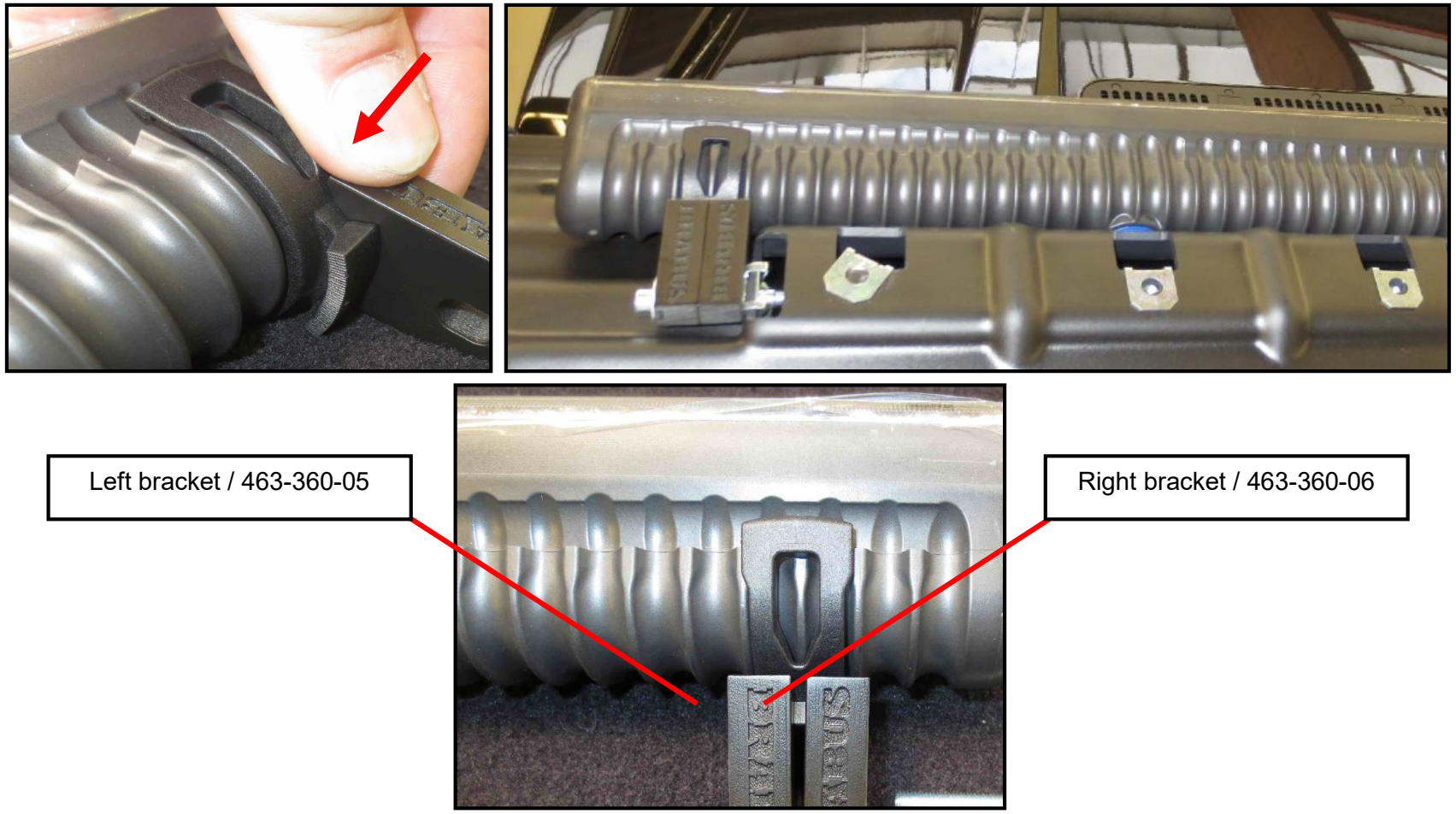
- Apply an even bead of adhesive to the bonding surface of the carrier part. Do not apply adhesive to the pre-glued adhesive tape.
- Glue the carrier part to the vehicle roof and align it according to the markings.
- Remove excess adhesive immediately and press the area to be taped firmly against the roof cladding.
- Fix the carrier part in place until the adhesive has finally hardened using suitable means (suction cups, fabric tape, etc.).

- After the adhesive has cured, remove the fixings/adhesive strips and clean the roof cladding (remove markings).
- Fit the sheet metal nuts (12 pcs.) onto the screw positions of the support section.



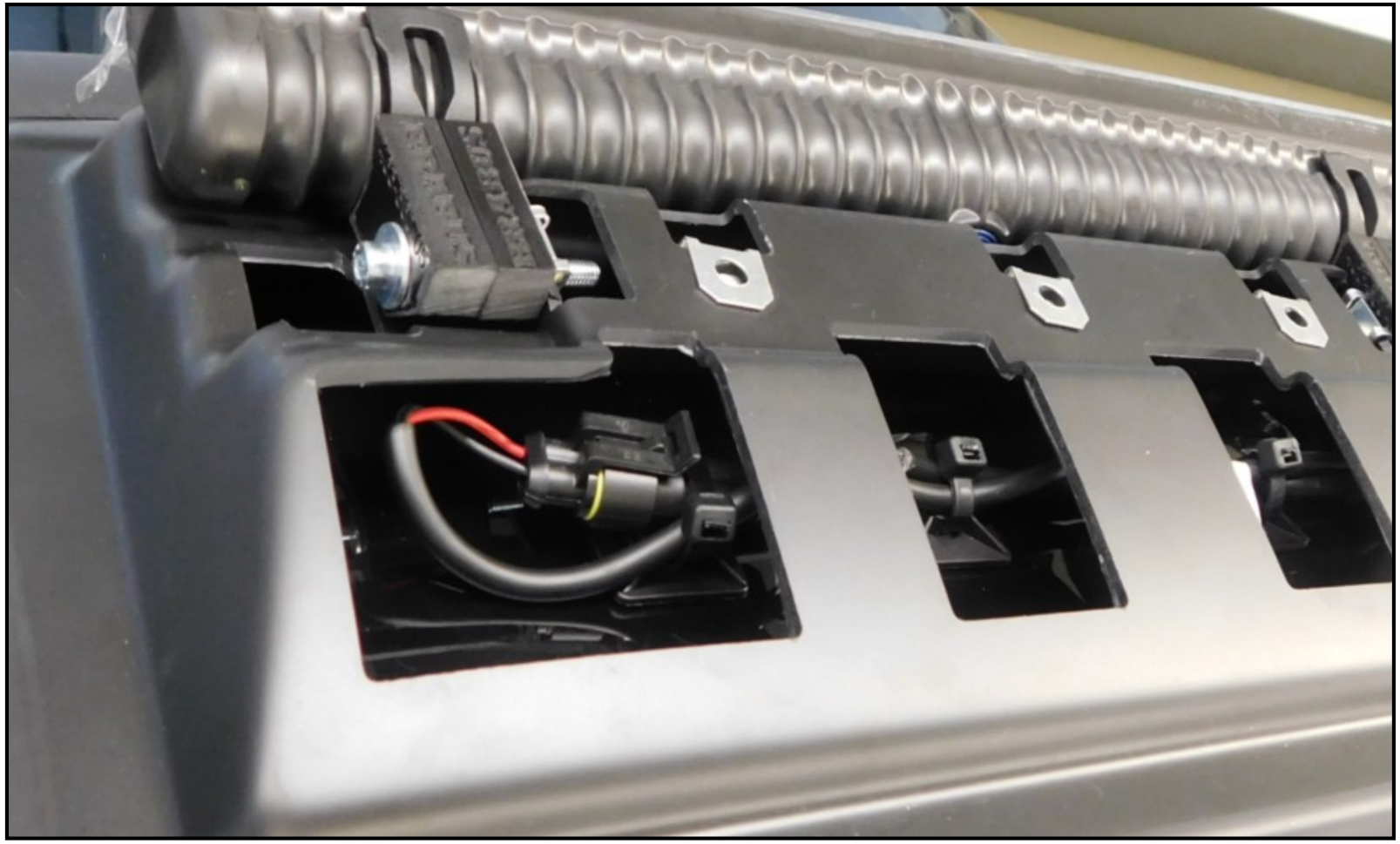
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- Screw the LED high beams to the bracket as shown in the illustrations. The brackets with item numbers 463-360-05 are used at the mounting positions on the left-hand side, those with item numbers 463-360-06 on the right-hand side.



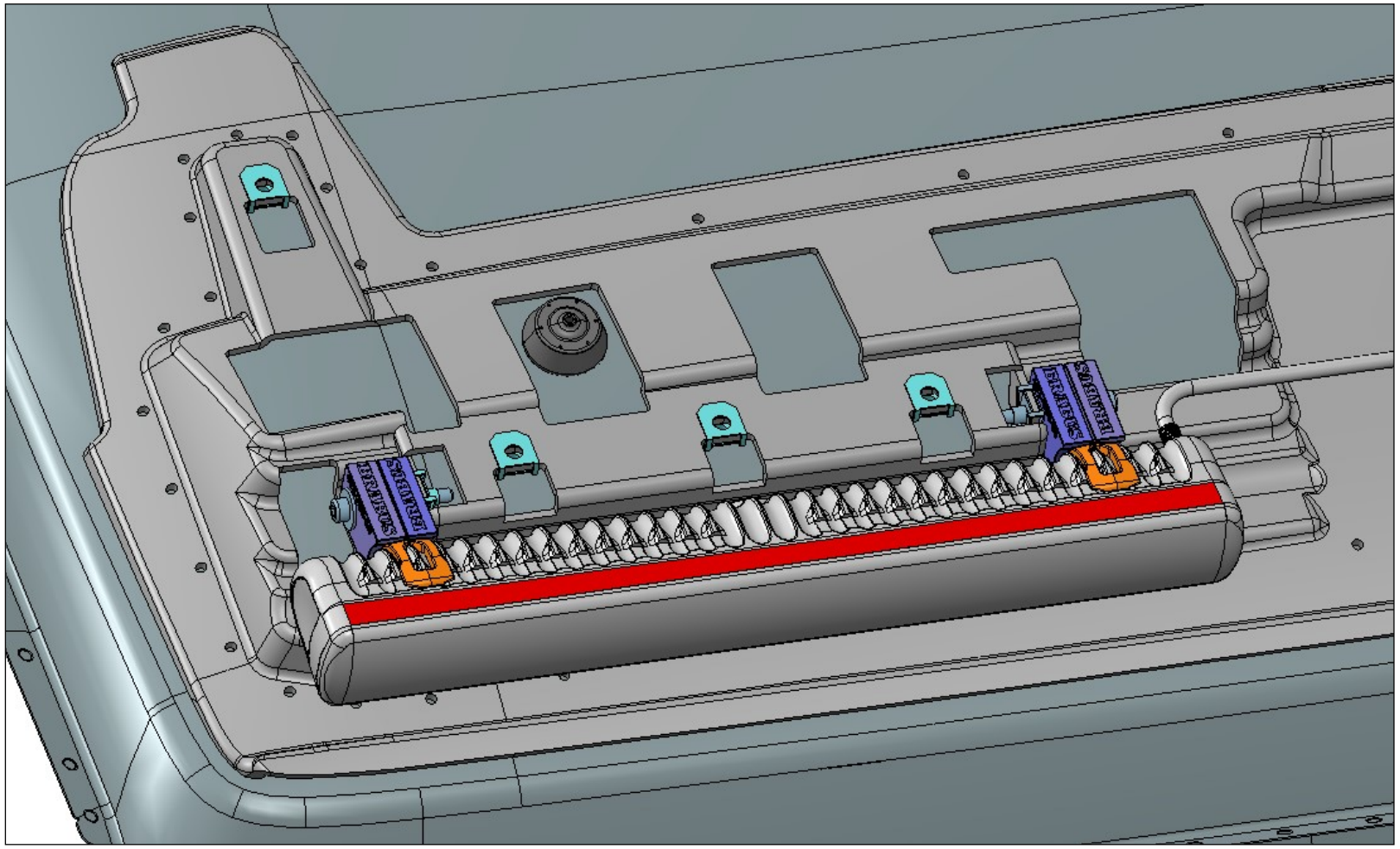
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- Connect the LED high beams to the cable set using the connector housings supplied. Ensure that the cables are laid neatly as shown in the illustration and secure them with the adhesive pads/cable ties supplied.
- Route the power of the basic wiring harness through the rubber grommet into the interior of the vehicle.



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- Glue the supplied expansion tape (marked red in the illustration) to the top of the spotlights in sufficient length as shown in the illustration.

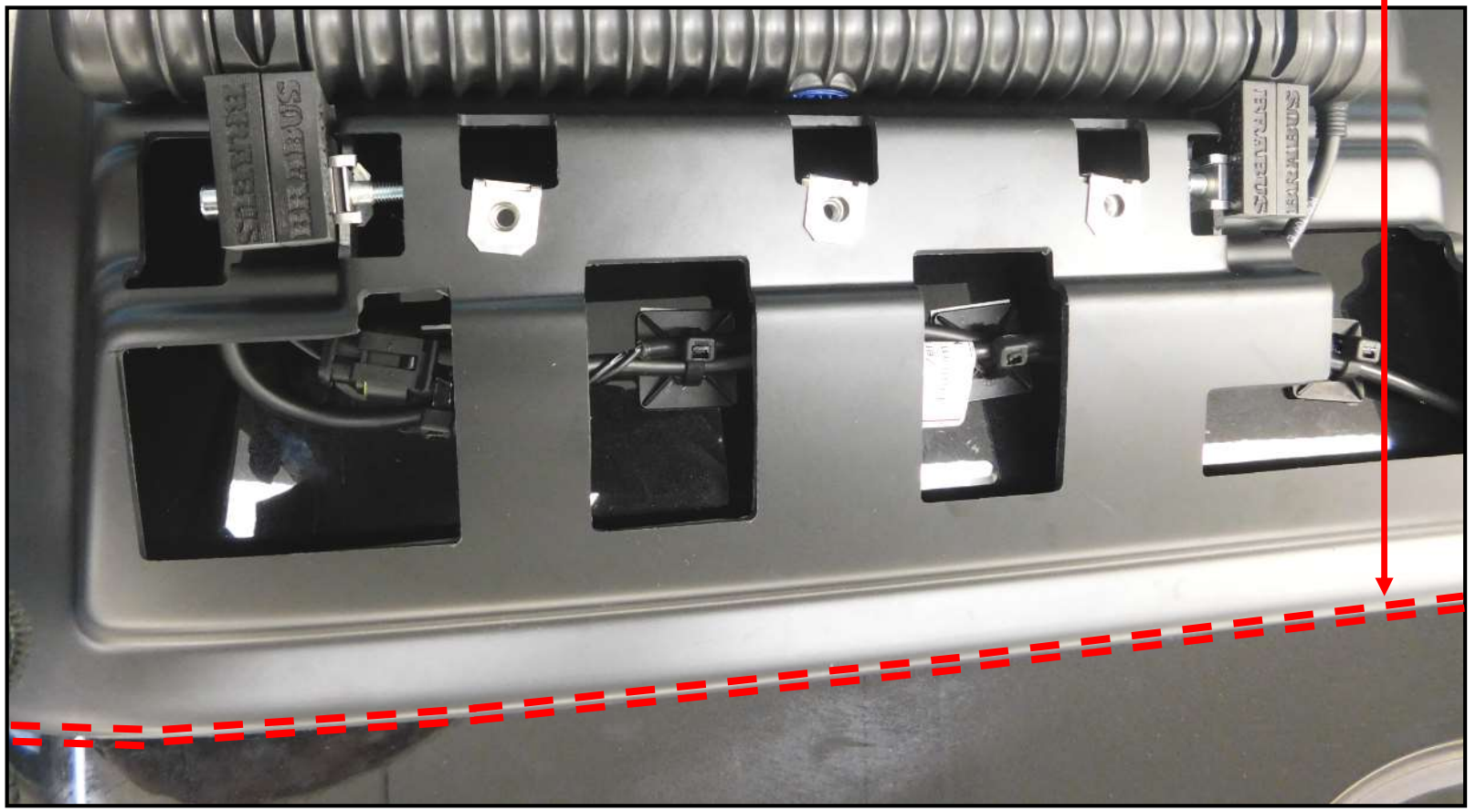


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- Degrease the rear edge of the roof attachment base part and the roof area in front of the roof attachment base part, apply primer to the areas marked red within illustration using the 3M primer cloth supplied.

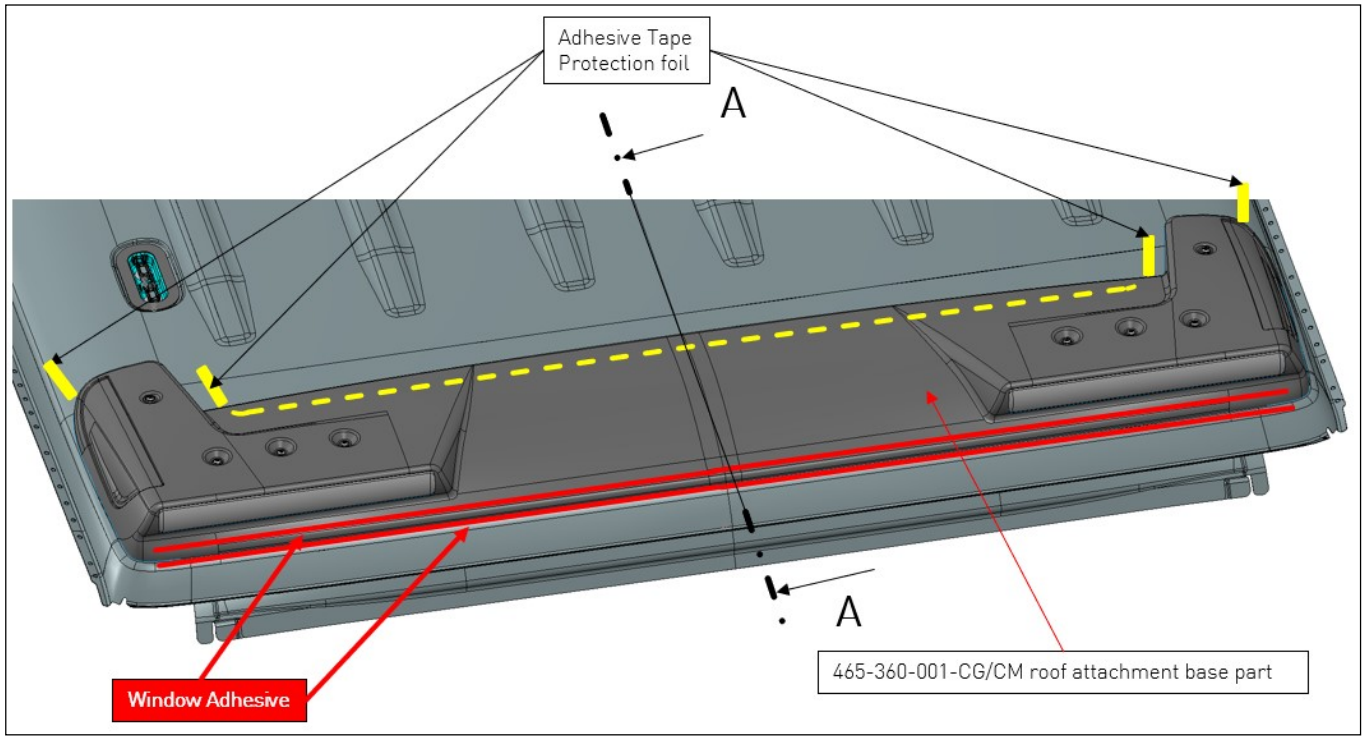


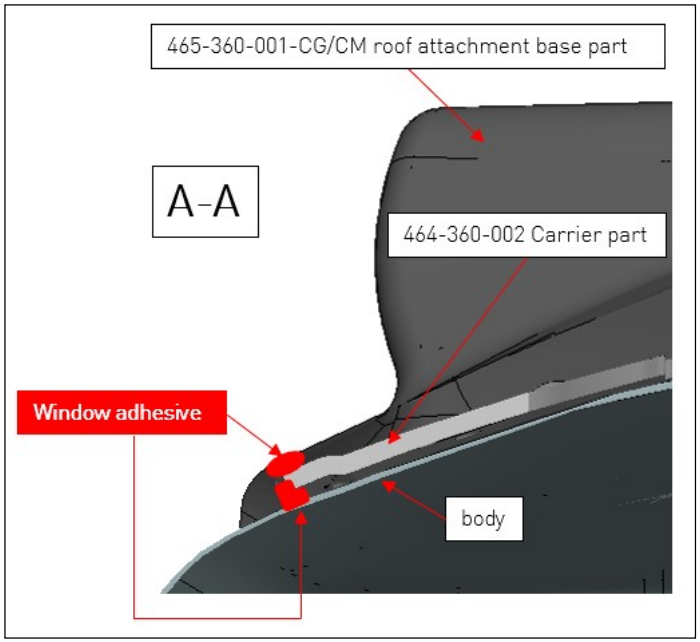
- Let the primer flash off for ten minutes.



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- Prepare the bonding surface on the carrier part and the carbon attachment for bonding in accordance with the bonding instructions on page 3.
- Apply even beads of adhesive to the bonding surfaces of the carrier part. Do not apply any adhesive to the pre-glued adhesive tape.





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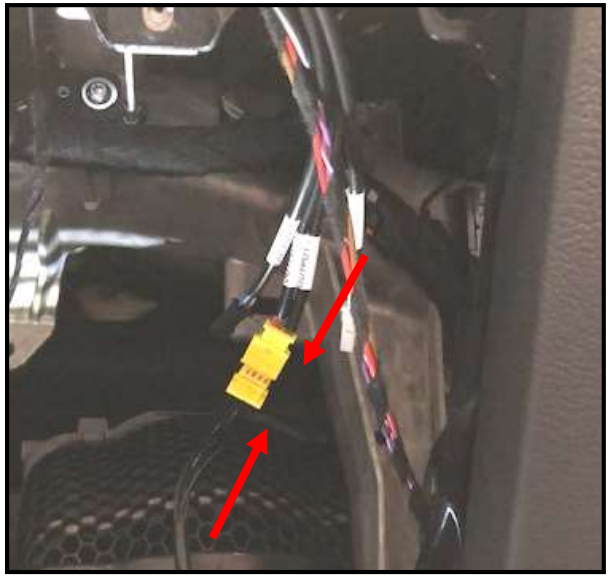
- Slide the carbon top section at the front under the carrier section and to the rear and fold it down. The liner must protrude at the front and rear under the carbon top section so that it can still be removed.
- Glue the carbon attachment to the carrier part and align it.
- Make sure that the high beam headlights are flush with the carbon top section.
- Remove excess adhesive immediately and press the area to be taped firmly against the carrier part.
- Fix the carbon attachment in place until the adhesive has finally cured using suitable means (suction cups, fabric tape, etc.).
- Allow the adhesive to cure for at least 2 hours before removing the fixings.
- Fit the 8 fixing screws (do not tighten them yet).

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- Press the carbon attachment part at the rear edge and carefully remove the liner of the adhesive tape (2 people required). After removing the liner, press the rear edge firmly again.
- Tighten the 8 screws of the carbon attachment part.

- Route the wiring harness for the LED high beam headlights to the right-hand footwell and to the BRABUS PDM outputs.
- Insert the contacts of the PDM connection cable into the supplied yellow, four-pin MQS coupling as shown on the labels on the cables (1, 2, 3, 4). Connect the coupling to the four-pin connector of the BRABUS-PDM (outputs 1 & 2).



- Carry out a function test, the high beam headlights light up parallel to the standard high beam.
- Once the functional test has been completed, reinstall all removed trim parts in accordance with the Mercedes workshop information system.



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