Installation guide

Brabus roof attachment incl. highbeam LED-lights for Mercedes-Benz X-Class, type 470, article-no. 470-360-00

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.
The assembly takes about 3 hours of labor.
Make sure for sufficient cleanliness while assembly and regard to bonding hints on page 3.

Included in delivery of Brabus roof attachment, article-no 470-360-00:

1x	Roof attachment W470	470-360-01
1x	Carrier for roof attachment	470-360-02
1x	Set of LED lamps	463-360-04
4x	LED bracket left side	463-360-05
4x	LED bracket right side	463-360-06
1x	Electronic control unit	470-360-07
1x	Highbeam base wiring harness	470-360-08
1x	Roof attachement wiring harness	470-360-09
1x	Rubber grommet FIX-S M20	52-653
10x	Plate nut type 6 M5	WU501105083
4x	Screw Vz 5,3x15x1,25	WU411515
4x	Screw IS4 M5x40	WU084540
6x	Screw 7380 A2 5x16	WU09802516
2x	Cable tie	A0019951990
1x	PU-adhesive kit	B28/000-8







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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 assembly suckers, (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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Wiring harness overview

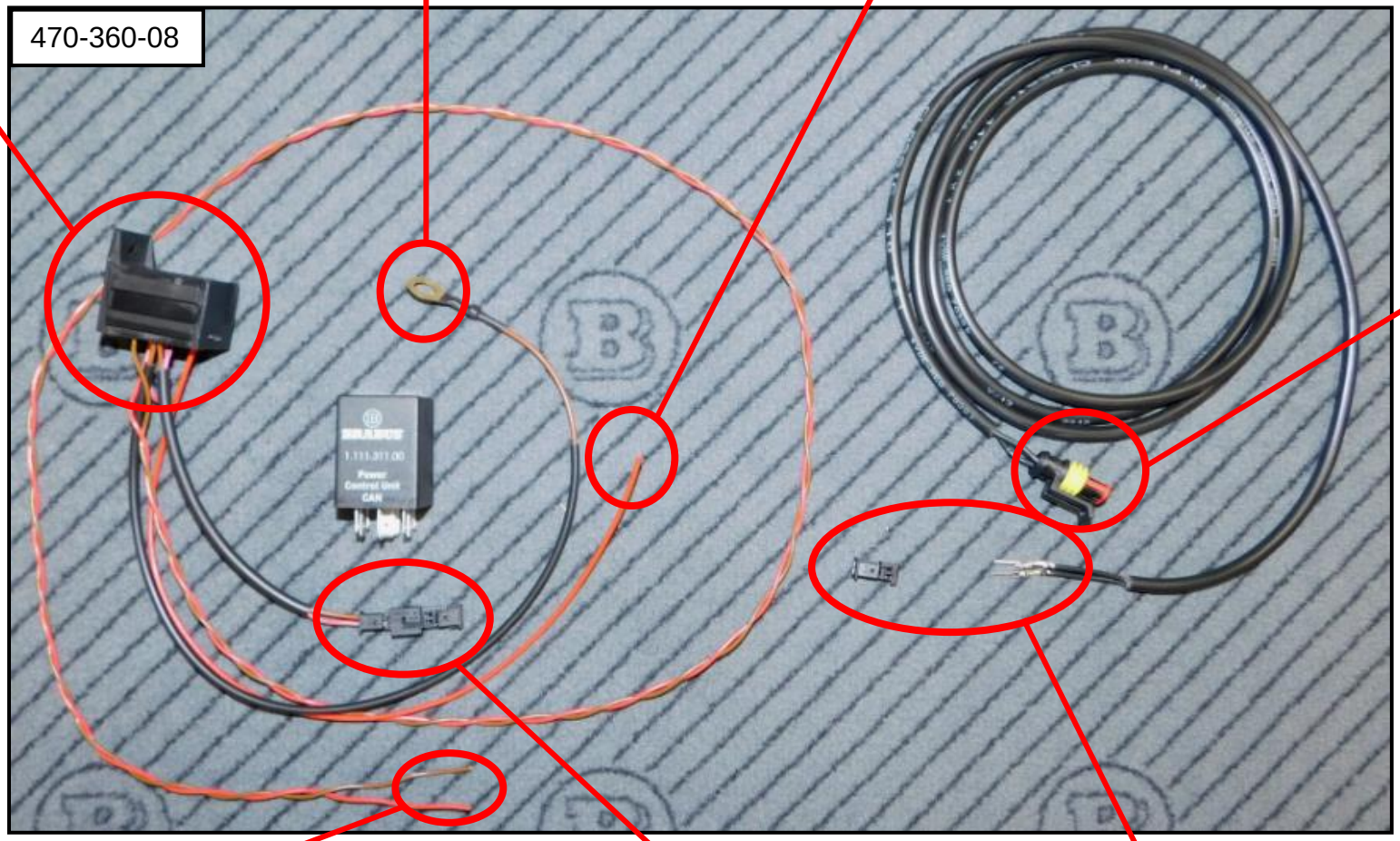
BRABUS

Control unit socket

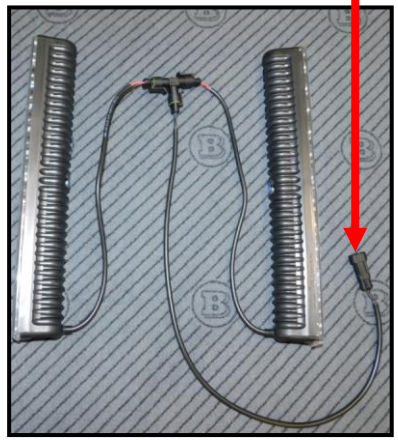
Ground connector (terminal 31)

Power supply connector (terminal 30)

470-360-08



Connection wire harness for LED lamps 470-360-09



CAN-connector

Connector for LED extension wire harness

Connector for main wire harness

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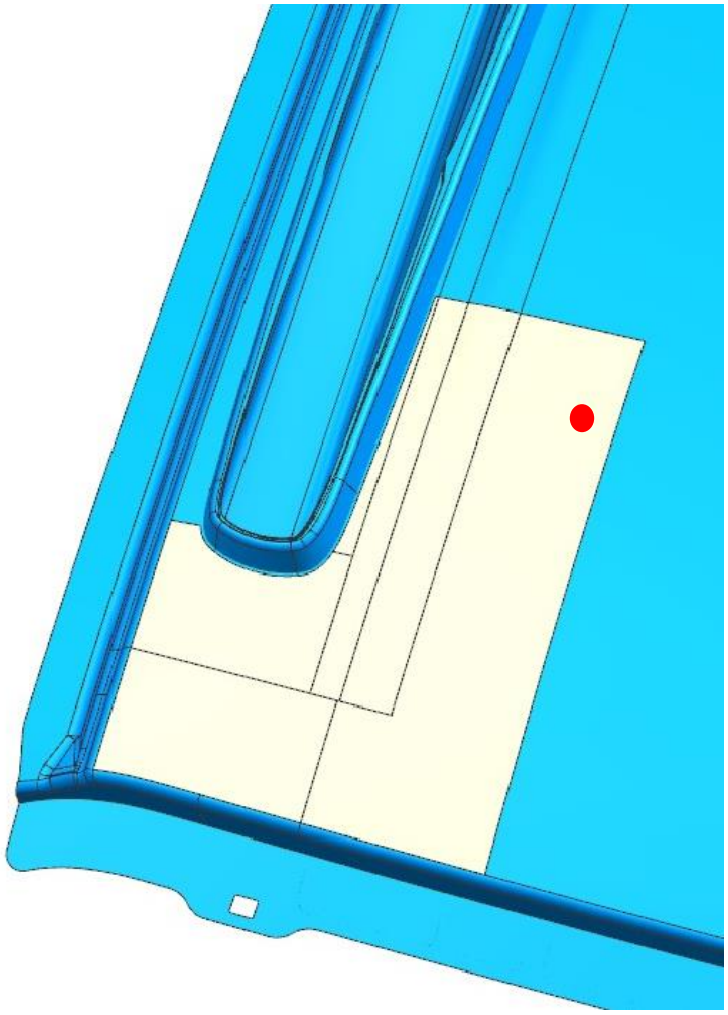
Preparation:

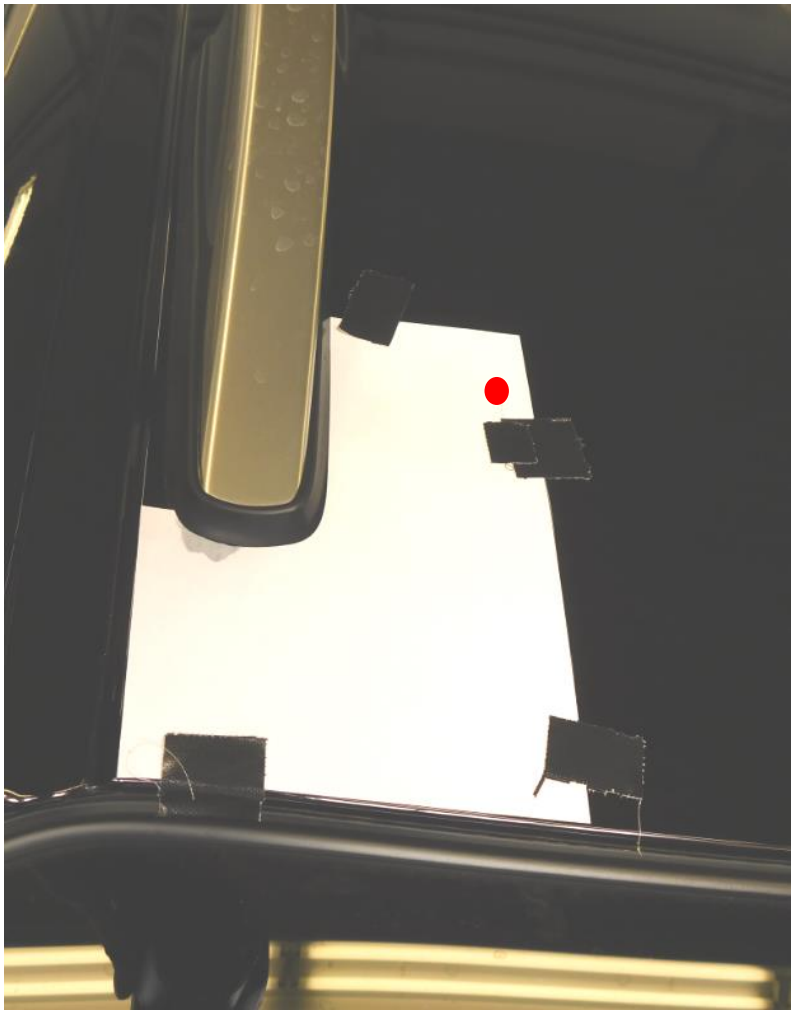
- Disconnect the vehicle battery, disassemble the roofliner operation panel.
- Disassemble the right a-pillar trim.
- Disassemble the glovebox lid.
- Disassemble the right sunvisor and its brackets.

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Assembly:

- Print and cut the template on the last page of the installation guide (original size!).
- Hold the template to the vehicle roof according to illustration/ image. Mark the bore position to the roof using a washable marker.

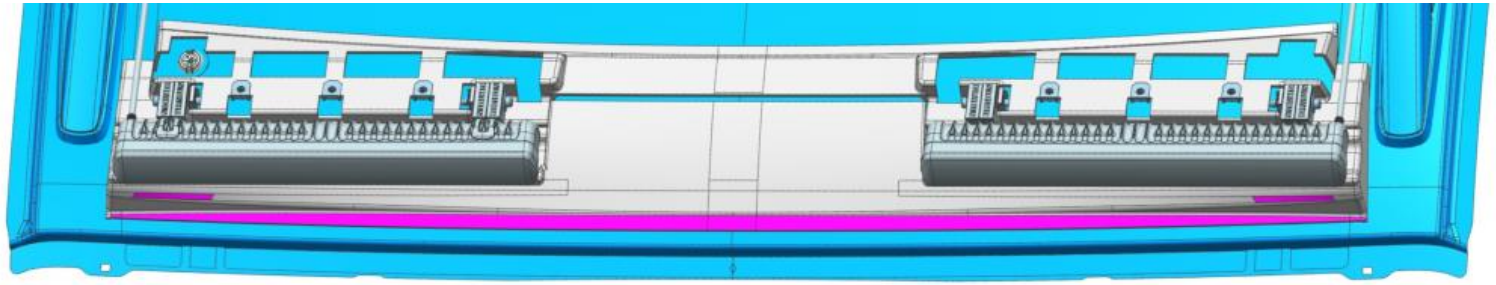




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- Drill a 22mm hole at the marked position into the vehicle roof using a suitable drill. Make sure for sufficient cleanliness and cover the drilling position using suitable tape. Make sure not to damage the roof lining when drilling!
- Seal the bore using suitable anti-corrosion fluid.
- Lay the roof attachment carrier to the roof according to images and align it. The gap of the frontmost roof edge to the frontmost plastic carrier edge must be 13mm. Mark the position of the carrier along the outer lines to the vehicle roof using a washable marker.
- Remove the carrier.



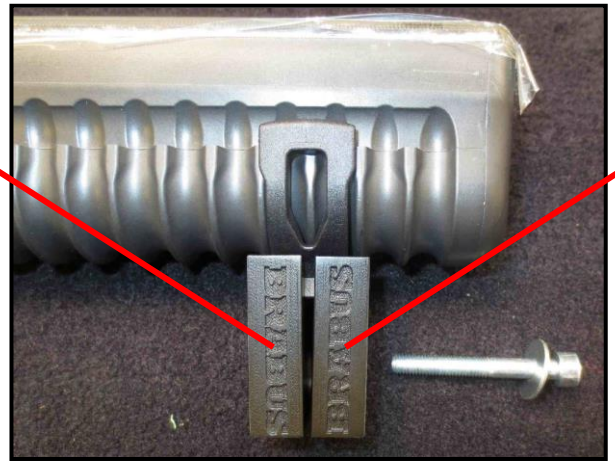


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- Bolt the LED lamps to the carrier according to images. The brackets article-no. 463-360-05 are used on the left assembly positions (driving direction), article nos 463-360-06 are used on the right sides.







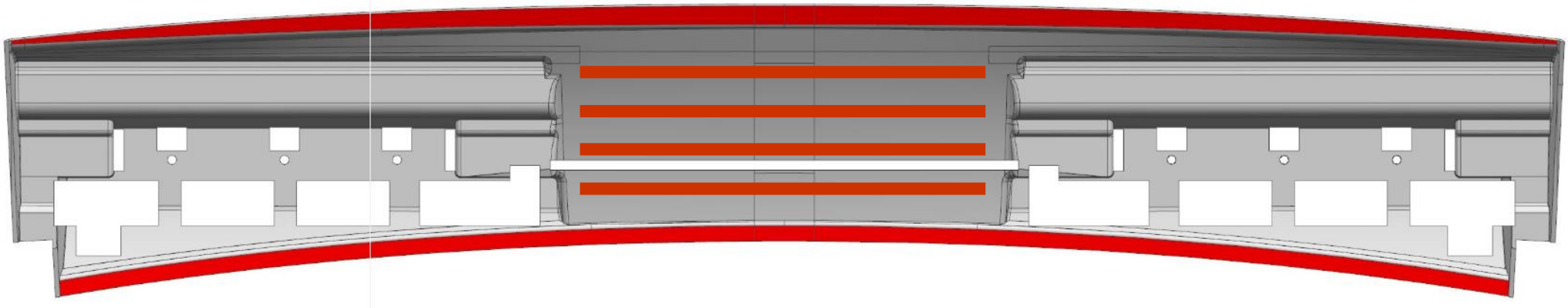
Left bracket / 463-360-05

Right bracket / 463-360-06

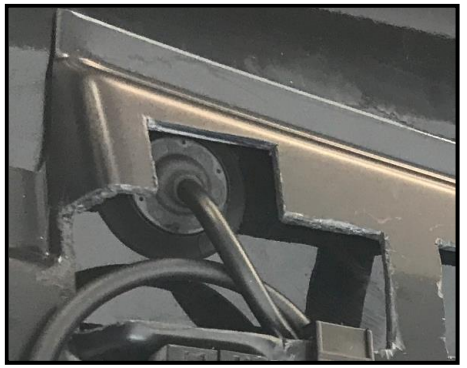
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- Prepare the roof bonding areas and those of the carrier for bonding according to bonding hints on page 3. Make sure for sufficient cleanliness and sufficiently degrease the bonding surfaces. Use appropriate primer fluid.

View of carrier from below, bonding areas marked red



- Apply even lines of adhesive to the bonding areas of the carrier. Avoid pointwise bonding!
- Bomd the carrier to the vehicle roof ans align it according to the markings. Remove excessive adhesive immediately.
- Fixate the carrier using appropriate measures (e.g.duct tape) until the adhesive has finally hardened.
- Route the highbeam connection wire through the rubber grommet supplied and the hole within the vehicle roof into the vehicle and along the right a-pillar into the passenger footwell.
- Attach the rubber grommet to the hole, make sure for sufficient denseness.



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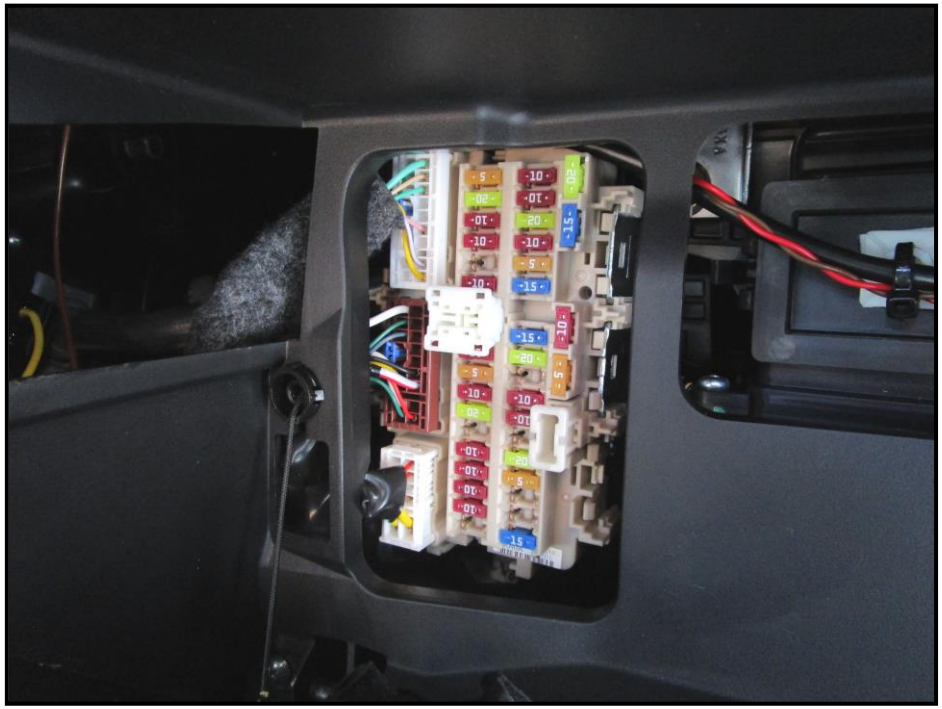
Illustration of bonded carrier

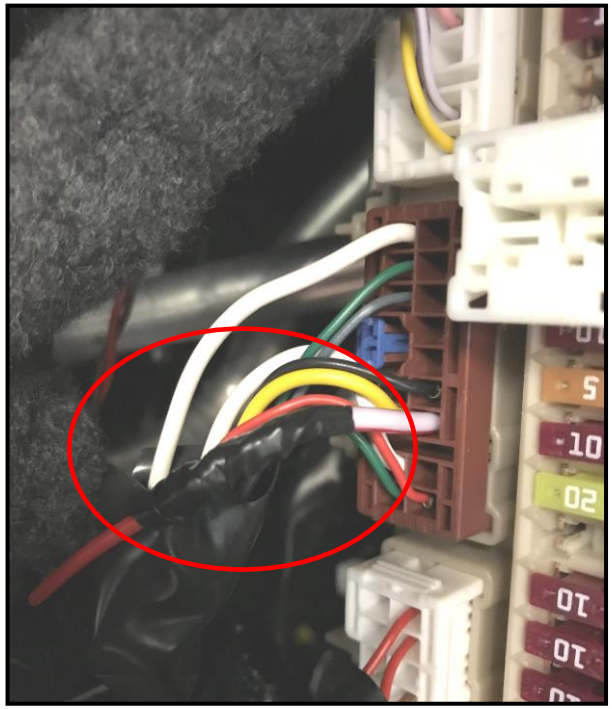


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- Start the wiring harness installation behind the glovebox.

- Solder the red wire of the Brabus harness to the red-white standard wire shown. Isolate the soldering area.





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- Attach the control unit (no relay!) to the control unit socket and fixate the completed unit to the carrier.



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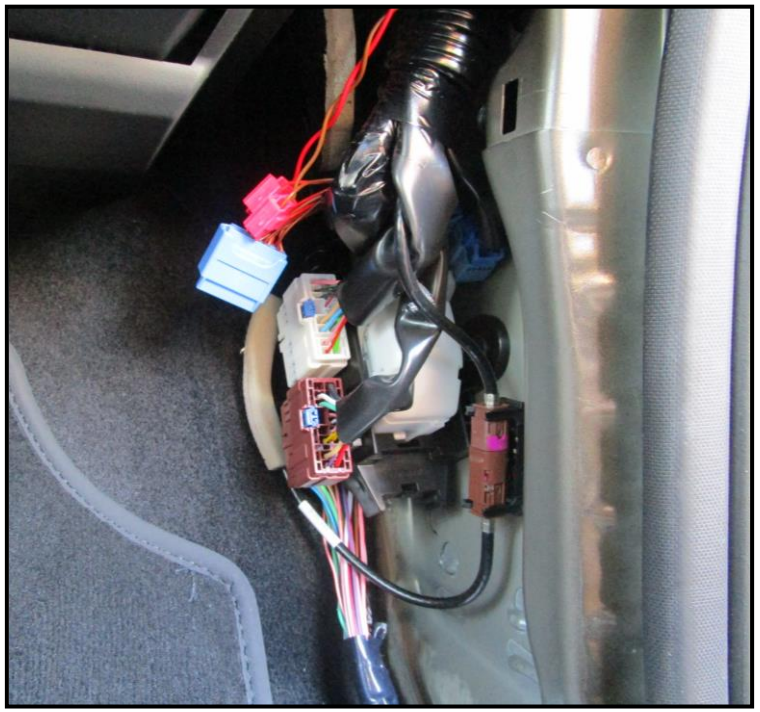
- Bolt the ground ring lug to the ground terminal within the passenger footwell shown.



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- Solder the CAN wires of the Brabus wiring harness to the CAN distributor shown (wire colors read and brown). Sufficiently isolate the soldered areas.





- Attach the wires for connection to the main wiring harness to the 2-pole plug supplied (color equal!) and connect the LED wire harness to the main wire harness.

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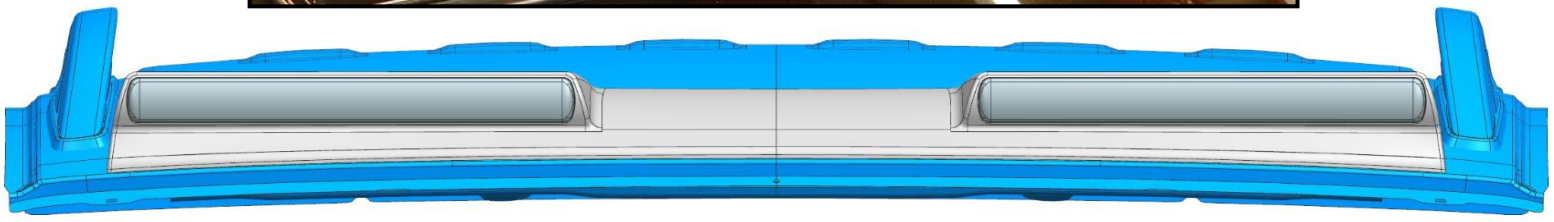
- After the adhesive of the carrier has hardened remove the fixations and clean the vehicle roof.
- Connect the roof wire harness to the LED lamps using plug supplied. Make sure for proper wire routing and fixate the wires to the carrier using cable ties/ sticky pads supplied.
- Remove the protection foil of the adhesive tape at the frontmost edge of the carrier.

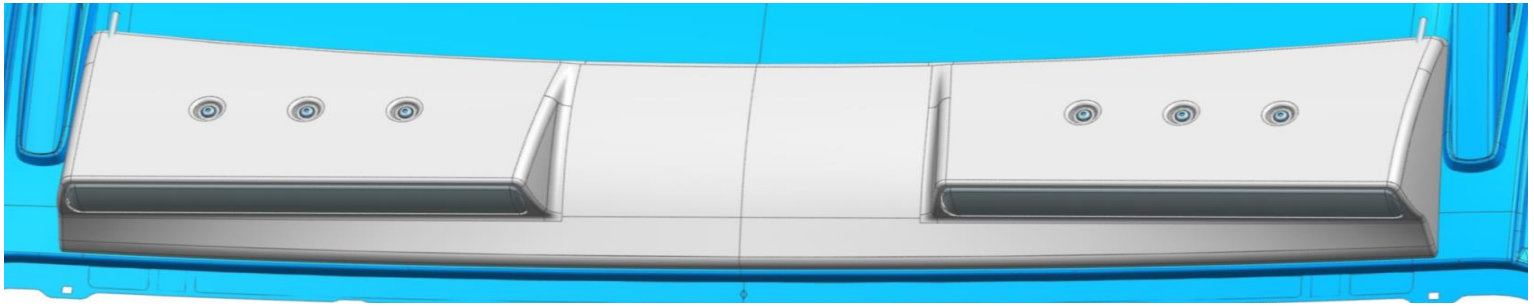


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- Assemble the roof attachment cover by pulling it into the frontmost carrier edge and pulling it over the carrier. Screw the cover to the carrier by using screws supplied. Pull the frontmost edge of the cover to the carrier.

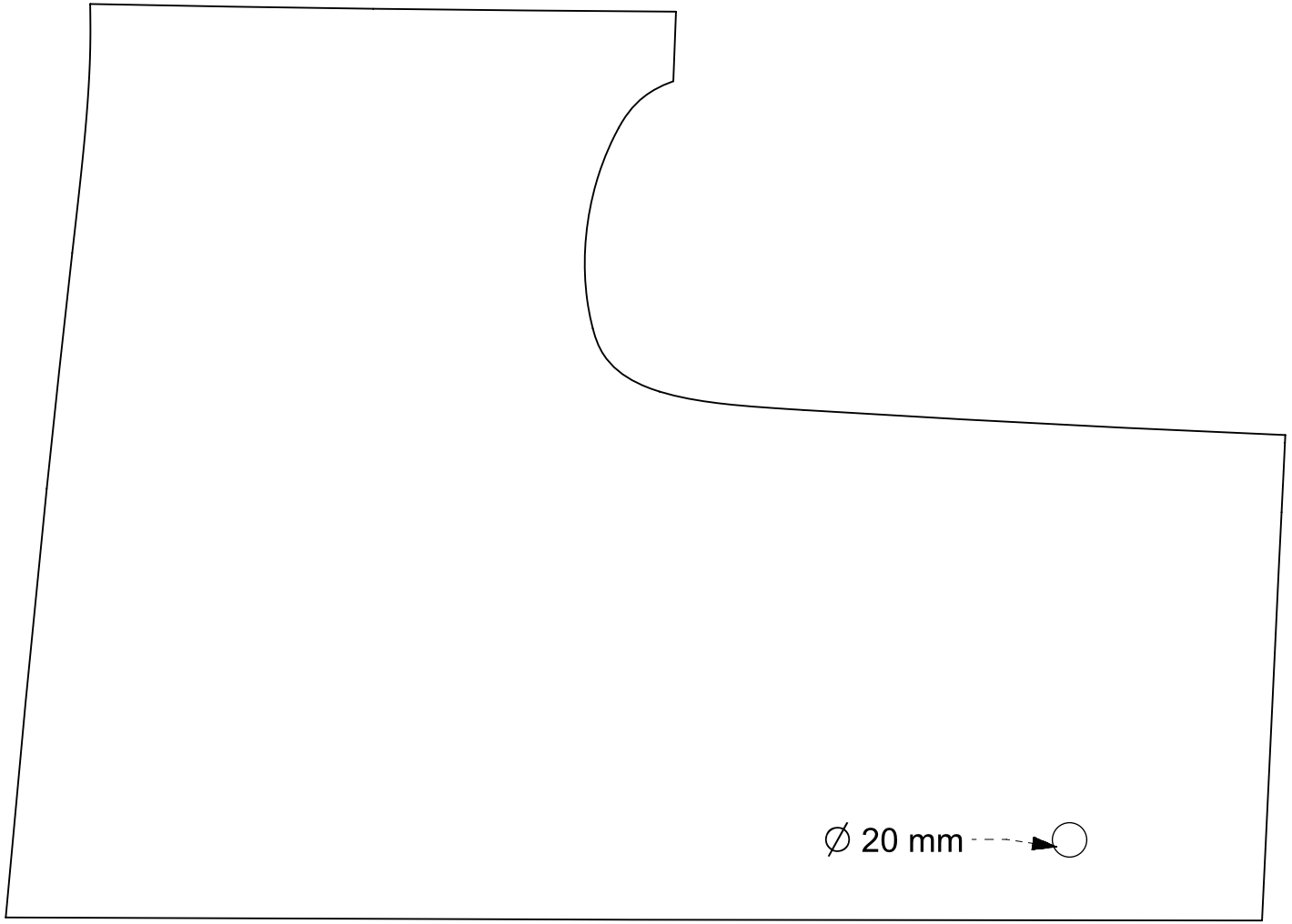


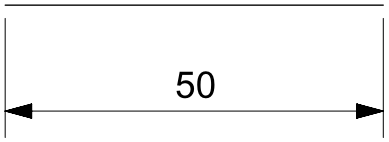




- After re-connecting the vehicle battery perform a function check (operation parallel to standard highbeam) and re-attach all trim parts and covers (according to Mercedes-Benz workshop information system).

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Änderung/Bemerkung:

	Datum	Name	Signatur
Gezeichnet:	20.04.2018	Brekoff	
Geprüft:			
Genehmigt:			
Qualitätssicherung:			

Titel: 470 X-Klasse Dachaufsatz Bohrschablone

Toleranz: ISO 2768-m

Bauteil | Anzahl

Werkstoff:

Oberfläche:

Zeichnungsnummer:

REV: A

A4

Maßstab: 1:1

Gewicht:

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