

G-Widestar

BRABUS®

Fitting instructions

Offizielle Technologie-Partner PIRELLI ZF SACHS ARAL YOKOHAMA ADVAN Mitglied im VDATV



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 make the installation. Therefore you have to read and completely understand these instructions.

Before you start, check the content of the supplied parts as detailed below!

Check the exact fitment of the delivered parts prior to painting and rework, if necessary. Avoid pointwise bonding!

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Included in delivery:

Frontbumper	463 – 200 – 01	1
Frontbumper add on- part left side	463 – 234 – 23	1
Frontbumper add on-part right side	463 – 234 – 24	1
Center Frontbumper add on-part	463 – 234 – 25	1
Front left fender enlargement	463 – 234 - 51	1
Front right fender enlargement	463 – 234 - 52	1
Rear left fender enlargement	463 – 234 - 53	1
Rear right fender enlargement	463 – 234 - 54	1
Filler cap enlargement	463 – 234 - 56	1
Front left running board cover	463 – 234 – 31	1
Front right running board cover	463 – 234 – 32	1
Rear left running board cover	463 – 234 – 33	1
Rear right running board cover	463 – 234 – 34	1
Lower side enlargement left	463 – 234 – 31	1
Lower side enlargement right	463 – 234 – 32	1
Front left door enlargement	463 – 234 – 61	1
Front right door enlargement	463 – 234 – 62	1
Enlargement between doors left	463 – 234 - 63	1
Enlargement between doors right	463 – 234 - 64	1
Rear left door enlargement	463 – 234 – 65	1
Rear right door enlargement	463 – 234 – 66	1
Rearbumper	463 – 430 – 45	1
Rearbumper add on-part left side	463 – 234 – 43	1
Rearbumper add on-part right side	463 – 234 – 44	1
Center Rearbumper add-on	463 – 234 – 45	1
Wiring harness	463 – 234 - 29	1
Typing	216 – 000 – 22	3
Trim grille left / right	463 – 234 - 26	2
Cover	463 – 234 – 27	2
Buffer	A1409880311	2
Hex head flange screw	M6	4
Trim grille for fender	212-550-05	4
Cover plate PE		4
LED light	164-351-17	8
Wiring harness for running boards	463-351-01	1
Relais set	463-351-03	1
Fender brace, illuminated, left side	463-550-01	1
Fender brace, illuminated, right side	463-550-02	1
PTS adapter	463-430-10	4
Rar reflector	8RA009001-031	1
Front indicator	2BA 009 001-201	2
Reversing light	2NE 009 001-011	2
Fog light rear	2NE 009 001-021	2
Set of highbeam / foglights front	463-253-00	2
Wiring harness for highbeam	463-234-29	1
Wiring set for rear foglights		1
Wiring set for reversing lights		1
Set of oilcooler brackets		1

If the car to modify is a G55 AMG, the oilcooler brackets have to be ordered seperately.
Article-no. of oilcooler brackets: 463-200-55, consisting of 463-200-57, 463-200-56, 463-200-58.

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General hints for adherence of body enlargement parts

The enlargement 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 )

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.
Remove paint fog prior to painting!

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Hints for adherence of single components

- The front and left rearbumper edges have to be bonded to the front-and rearbumper prior to painting in order to avoid deformations caused by heat while painting.

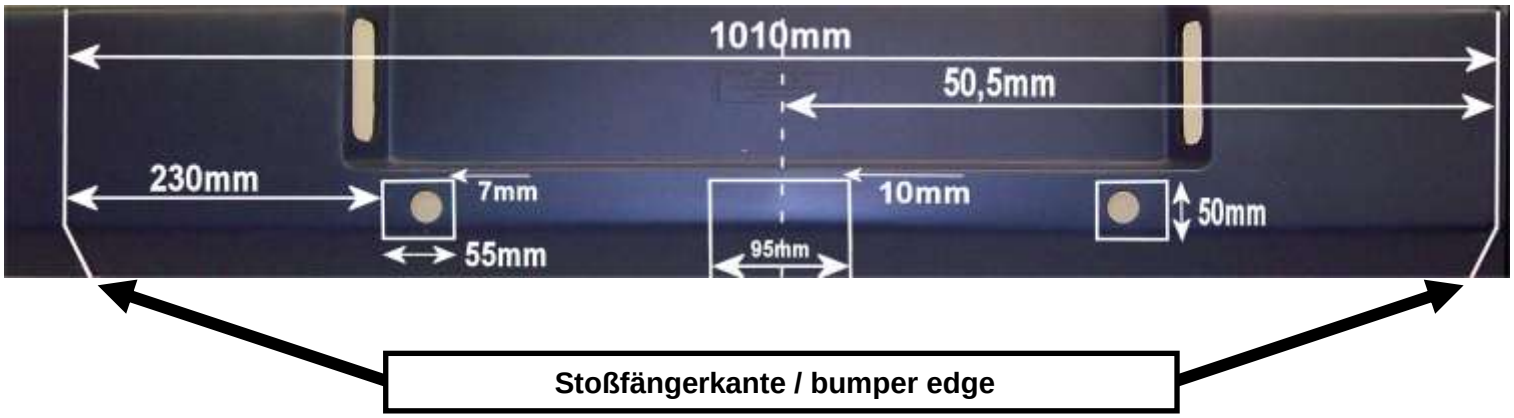
- If the middle front-and rearbumper add on-parts get painted in the same colour as the car, bond them to the bumpers **before** painting!

- If the middle front-and rearbumper add on-parts are painted as recommended by Brabus (MB colour-code 744, brilliant silver), the parts have to be bonded after painting!

Important:

If the rearbumper add on-part gets painted in different colour than the car-colour, cut the necessary notches for the PDC sensors and the reflector out of the rearbumper **after painting** in order to avoid heat deformation of the rearbumper when painting!
This is the reason why the parts are not delivered already cut, but why they have to be cut by the workshop that modifies the car. Take care for the rear middle PDC sensors to be painted in the same colour as the rear add on-part!

For the cutouts of the rearbumper please regard to image below including the measurements: Mark the cutting lines to the bumpers using a suitable, washable marker and cut the areas along the markings using a suitable tool. Deburr the cutting edges.



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Preparation:



- Remove the following components:
  - Headlamp covers
  - Rearbumper
  - Side trim mouldings (Remove adhesive residues!)
  - Trim mouldings below doors (Remove adhesive residues!)
  - Running board panels
  - Fender enlargements
  - Radiator grille
  - Foglamps
  - Wheelarch-liners front and rear
  - Unerride protection
  - Receiver of central locking system driver's door
  - Boot interior trims left and right



- Disassemble the rearbumper, remove the PDC-sensors.



- Bond the left and right bumper edges to front and rearbumper and the PDC brackets of the rearbumper **prior** to painting according to bonding hints mentioned on pages 4 and 5. Align the PDC brackets! Fixate the bonded parts using a strong self adhesive tape until the adhesive is finally hardened.
  Remove excessive adhesive immediately!





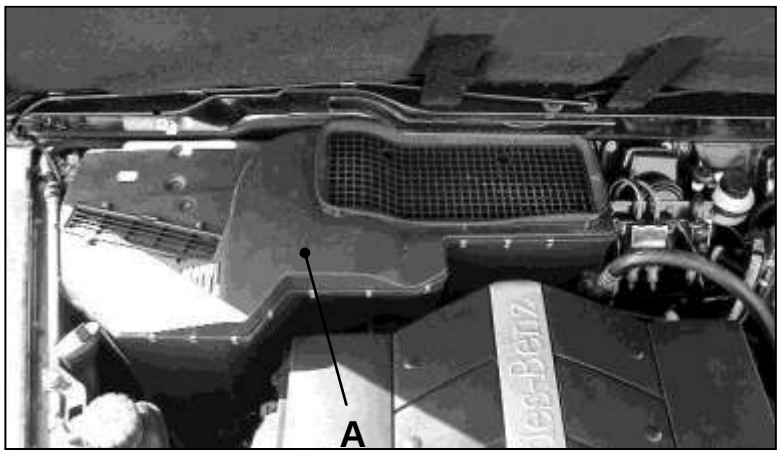


- In some countries it is not allowed to have four indicators on the front.
  If the car you're modifying gets registrated in one of these countries, remove the standard indicators on the front fenders and close the mounting holes by welding. Repaint the fenders. The cable of the indicators then have to be routed to the mounting areas of the Brabus front indicators.
  Is it allowed to have four indicators, solder the cables of the Brabus indicators parallel to the standard indicator cables. Take care for sufficient isolation!

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- Route the wiring harness for the running board panels as follows:

  - Open the bonnet and remove blower housing (A).



  - Remove the left a-pillar trim, the roofliner illumination panel and the lower dashboard cover in the footwell.
  - Route the long wiring harness (article-no.: 463-351-01) from the engine bay, through the standard rubber support (see fig.) into the passenger's footwell.



  - Route the wiring harness along the a-pillar to the roofliner illumination panel.

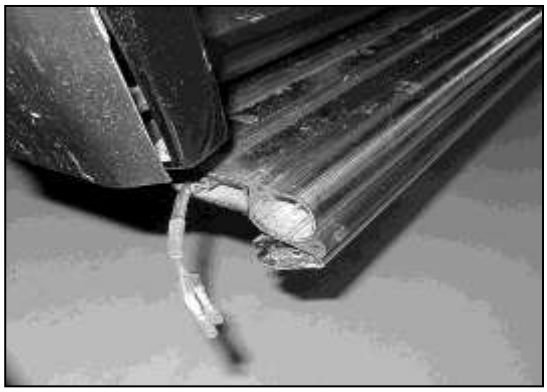
  - Route the longer cable to the left side and the shorter one to the right side.

  - Lead the endings of the cables through the grommets inside the wheel housings to the running boards.

  - Pull the rear connectors for the LED illumination through the running boards to the rear ends.

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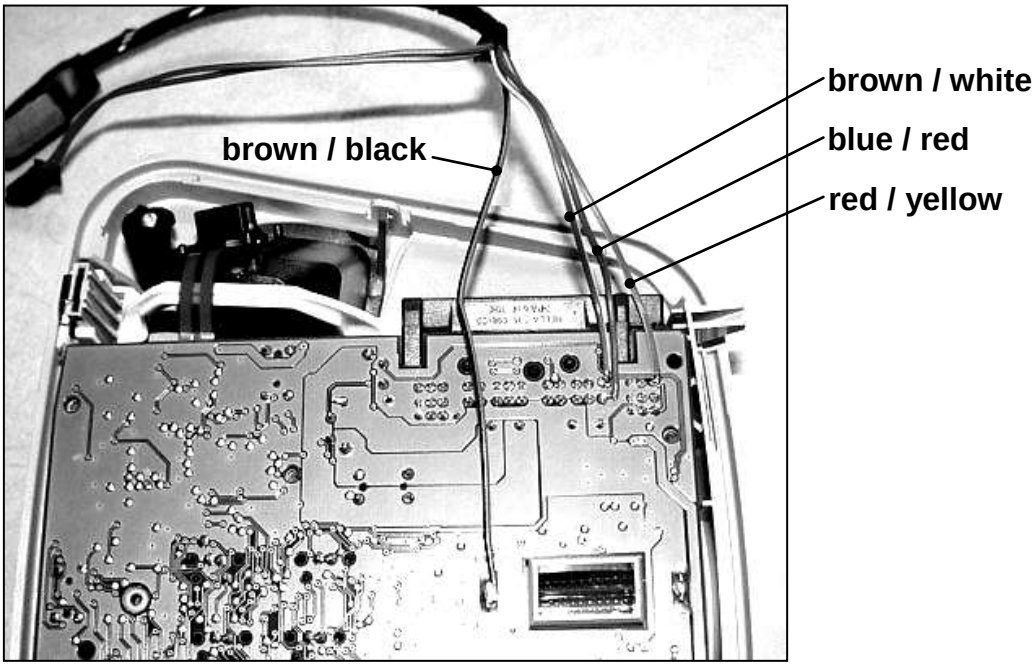




- Realize electrical connections according to scheme below.

Connection of short wiring harness

- Remove the cover of the roofliner illumination panel.
- Solder the cables as shown in figure below.

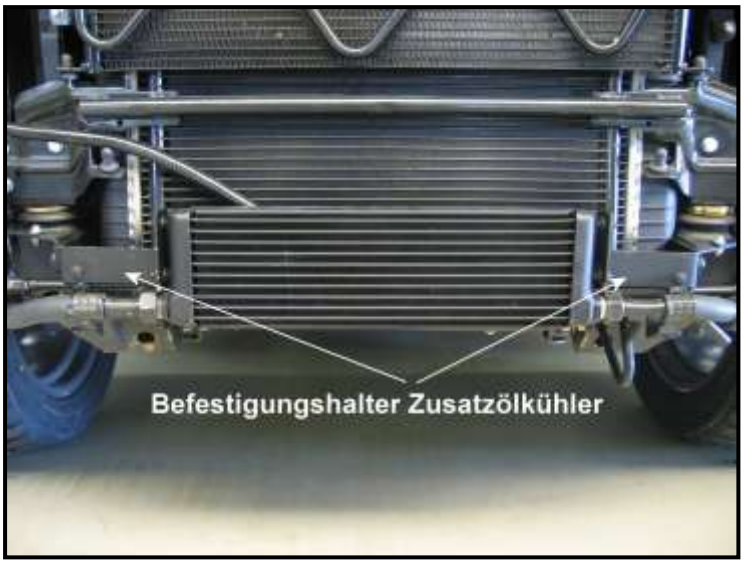


- Complete the illumination panel, realize the connection to the previously routed wiring harness and reattach the roofliner illumination panel.

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Frontbumper assembly

- Remove the oil cooler of the automatic transmission behind the frontbumper. Do not disconnect the oilpipes!! **Only: G 320, G 500, G 270 CDI und G 400 CDI.**
- Remove the engine-oil cooler (only G55 AMG).
- Disconnect the electrical connection of the temperature sensor.
- Unfasten the screws of the frontbumper and remove the bumper.
- Reattach the oilcooler using the delivered brabkets (see fig. below).



- Cut and enlarge the standard indicator cables for 30cm using cables of the same colour, properly isolate the soldering areas!
- Route the wiring harness for the additional highbeams as follows:
  - Remove the fuse panel that finds left of the dashboard (3 screws).
  - Attach the fuse terminal to the free port of the fuse panel (image).

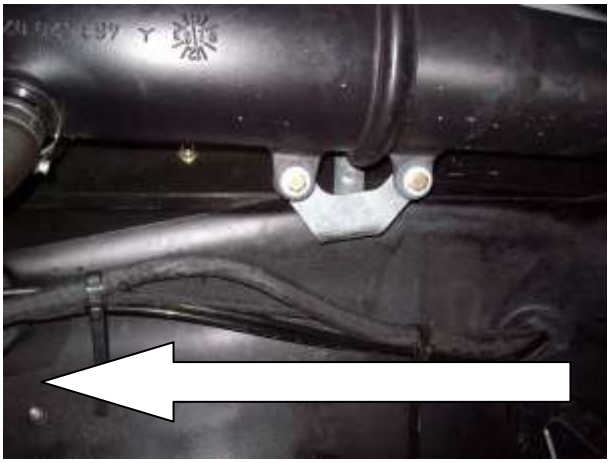
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- Remove the left lower dashboard cover. Attach the delivered relais to it's socket and place it in the driver's side footwell behind the side trim. Fix it by using cable ties, for example.
- Route the cables through the rubber grommet on the left side into the engine bay (image).





- Route the cables through the rubber grommet into the left wheelhouse and to the left headlamp. Solder the white cable parallel to the power supply cable of the left highbeam. Properly isolate the soldering area!
- Lead the cable for the right additional highbeam in front of the cooler along the standard cables to the car's right side, fix it to standard cables using cable ties.
- Cut off the standard foglight plugs, solder the delivered foglight cables to the cutted endings. Properly isolate the soldering areas!
- Bolt the left and right trim grilles and their cover plates to the frontbumper using the delievered tapping screws (8 screws per side). Take care for correct alignment!

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- Bolt the delivered additional lamps to the frontbumper, take care for correct order:
  - Indicators to outer retainers
  - Foglights to middle retainers (foglight-description: 02B)
  - Highbeams to inner retainers (highbeam-description: 00HR)





- Attach the frontbumper o the standard attachment areas and align it. Bolt the frontbumper to the car.
  Attach the delivered 15A-fuse to the fuse terminal, connect the plugs to the additional lamps.





Assembly of radiator grille:

- Cutoff the lower part of the radiator according to figure beside.
- Attach the modified radiator grille.



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Assembly of front fender enlargements:

- Hold the front fender enlargements to their positions and align them.
  Mark the outer lines of the parts to the front fenders using a washable marker.

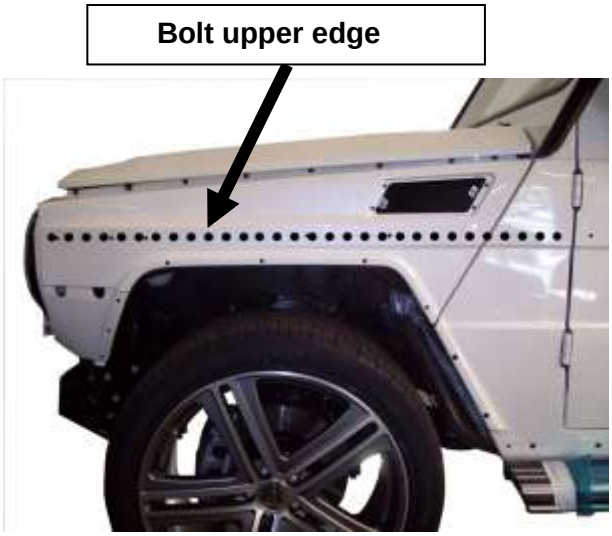
- Prepare the fender enlargements for bonding according to bonding hints on page 4.
  Please be advised that the upper edges of the parts are not bonded but fixed by using the delivered screws / washers. You get access to the backsides of the mounting holes inside the wheelhouses.

- Remove the paint fog from the bonding areas, prepare the bonding areas according to hints on page 4. Hold the trim grilles and the cover plates to the notches of the fender parts, align and fixate the trim grilles / cover plates by using fast hardening 2 component adhesive (e.g. Würth, article-no.: WU8935003). After the 2 component adhesive is completely hardened, fixate the trim grilles and the coverplates by using the delivered adhesive / PU window-adhesive.

- Attach en even line of adhesive to the bonding areas of the front fender enlargement parts and bond the parts flush to the car. Align them according to previously made marks and fixate them by using strong adhesive tape until the adhesive is finally hardened. Remove excessive adhesive immediately!

- Bolt the fender parts to the fenders within the upper area using the delivered screws / washers.





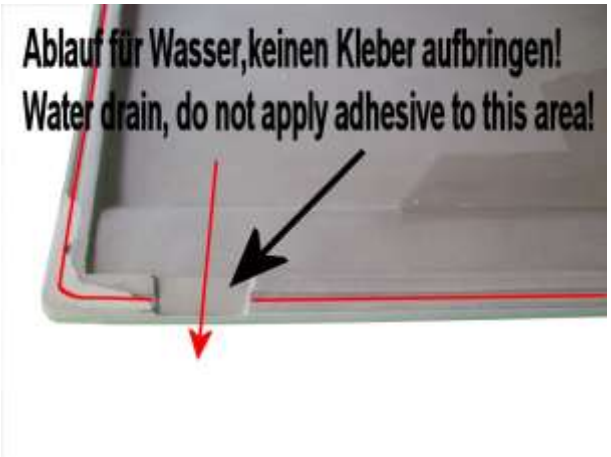
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Assembly of front and rear door enlargement parts:

- Remove the comfort locking sensor of the front left door and bond it to the front left door enlargement part. Route the cable through the front left door before bonding!
- Hold the door enlargement parts to the doors, align them and mark the outer edges of the parts to the doors using a washable marker.
- Prepare the bonding areas of the enlargement parts and those of the doors for bonding according to hints on page 4.
- Attach en even line of adhesive to the bonding edges of the door enlargement parts. **Take care not to attach adhesive to the water drain notches at the bottoms of the parts!** Regard to images below.
- Attach the parts to the doors, align and fixate them until the adhesive is completely hardened. Remove excessive adhesive immediately!
- Regard to following images:









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Assembly of inter-parts between doors:

- Hold the inter-parts between the front doors to the car and mark the outer lines to the car using a washable marker.
- Prepare the bonding areas of the car and those of the add on-parts according to bonding hints on page 4.
- Apply an even line of adhesive to the bonding edges of the add on-parts, attach them to the car and align them according to previously made marks. Fixate the add on-parts until the adhesive is finally hardened. Remove excessive adhesive immediately!
- Please regard to following images:





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Assembly of rear fender enlargement parts:

- Hold the rear fender enlargement parts to the car, align them and mark the outer edges to the car using a washable marker.

- Drill the hole for the first bolt connection (in driving direction) through. Due to the fact that there is no access from inside, the hole has to be drilled, using a long suitable drill and enlarged from inside up to a value of about 15mm. Please regard to figures below.





- Remove the paint fog from the bonding areas of the trim grilles and the cover plates, prepare the bonding areas according to hints on page 4. Hold the trim grilles and the cover plates to the notches of the fender parts, align and fixate the trim grilles / cover plates by using fast hardening 2 component adhesive (e.g. Würth, article-no.: WU8935003). Take care for correct and even alignment of the trim grilles on both sides! After the 2 component adhesive is completely hardened, bond the trim grilles and the coverplates by using the delivered adhesive / PU window-adhesive.

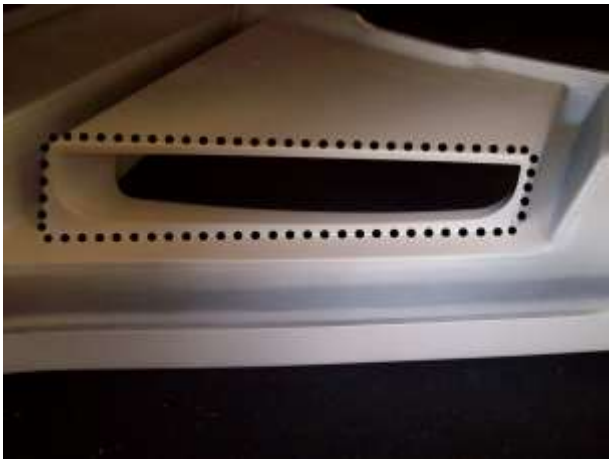
- Prepare the bonding areas of the rear fender enlargement parts and those of the car according to bonding instructions on page 4. Please be advised that the upper edges of the parts are not bonded but fixed by using the delivered screws / washers.
  You get access to the backsides of the mounting holes when the side trims within the boot compartment are removed.
  Take care not to attach adhesive to the water drain notches at the bottoms of the parts!

- Attach an even line of adhesive to the bonding edges of the rear fender enlargement parts (also to the bonding edge around the filler cap, take care to attach a thin line!). Bond the parts to the car, align them according to previously made marks and fixate the parts until the adhesive is finally hardened.
  Remove excessive adhesive immediately!

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- Bolt the upper edges of the parts to the car using the delivered screws / washers.
- Bond the filler cap add on-part to the filler cap lid. Attach the completed filler cap lid and align it carfully. Make sure the lid and the enlargement part cannot come into contact to the car body when opening after alignment!
- Bolt the delivered spacers to the holes inside the filler cap area and align them.

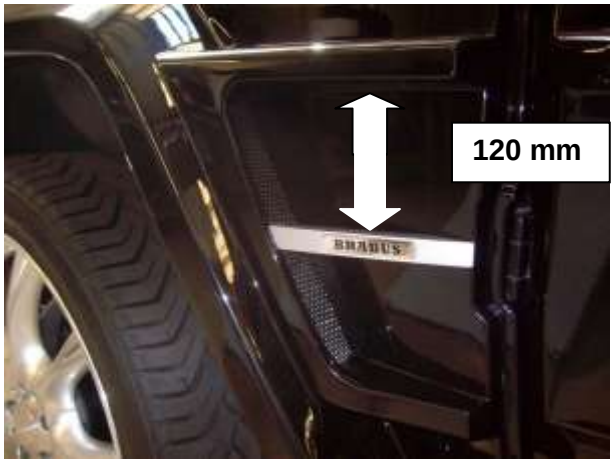




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Assembly of fender braces:

- Hold the fender braces to the fender parts. Align them and mark the outer edges to the fenders using a washable marker.



- Prepare the bonding areas of the braces and those of the fender parts for bonding according to hints on page 4.

- Bond the fender braces to the fender enlargement parts, align and fixate them until the adhesive is finally hardened. The gap between the upper fender edge and the brace has to be adjusted according ti image beside. Remove excessive adhesive immediately!



- Lead the cables of the illuminated braces through the trim grill into the wheelhouse and down to the running board illumination cable. Solder the cables parallel to the running board illumination cable and isolate the soldering areas!

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Assembly of front and rear running board panels:

- Carefully attach the LED lamps to the running board panels. Take care for even alignment.
- Connect the red and black cable to the wiring harness using the delivered, water proof connectors. Crimp the connectors using a special crimp tong and shrink them using a hot air fan.

  Attention: When connecting the cables take care for correct polarity!
- Attach the running board panels using the standard screws.



Assembly of mouldings below doors:

- Hold the lower mouldings to the car, align them and mark the outer edges to the car using a washable marker.
- Prepare the bonding areas of the mouldings and those at the car for bonding according to bonding hints on page 4.
- Apply an even line of adhesive to the bonding areas of the mouldings.
  Take care not to apply the adhesive to the middle bonding areas, but o the outer edges. Bond the mouldings to the car, align them and fixate them until the adhesive is finally hardened. Remove excessive adhesive immediately! Do not apply the adhesive pointwise!



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Assembly of rearbumper:

- Bolt the reverse lights and the foglights to the rearbumper. The foglights get attached to the outer retainers, the reverse lights to the inner ones.



- Remove the number plate illuminations of the standard rearbumper, attach them to the Brabus rearbumper.

- Cut off the towing hitch using a suitable tool according to image beside. Seal the cutting edge.

- Bolt the reflector to the rearbumper add on-part.



- Attach the PDC sensors.

- Cut the standard reverse light and foglight cables, enlarge them using the delivered cables and lead the plugs to the mounting areas of the rearbumper. Isolate the soldering areas.

- Perform the electrical connections of the rearbumper and attach the rearbumper. Align it. It can be necessary to change the distance between the middle rearbumper brackets and the rearbumper by using washers (see image).



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- Drill the mounting holes (5mm)for the left and right rearbumper edges and the rear fender parts from bottom through the rearbumper edges up through the fender parts. Attach the delivered, black plastic spacers to the gaps between the parts before Route the screws M5 from the bottom through the bumper edges, the plastic washers and the fender parts. Bolt the parts together using the delivered washers/ nuts M5.



- Reattach all previously removed cover parts.

- Perform a function check and make sure all screw connections were realized with sufficient strength and all adhesive connections were securely made.

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