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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. Check the content of the supplied parts as detailed next page prior to assembly.

The stainless steel valve controlled sports exhaust system only can be used in combination with the Brabus carbon-fibre rear diffusor (article-no. 292-463-00_10).

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Included in delivery of valve controlled sports exhaust:

1x	Stainless steel valve controlled sports exhaust	292-678-63-A
1x	Wiring harness for valve control unit	166-600-95
1x	Control unit (not a relay!)	292-600-65
1x	Mechanical parts kit	166-600-98
1x	Left exhaust tailpipe	166-678-63-ERLB
1x	Right exhaust tailpipe	166-678-63-ERRB

Included in delivery of carbon-fibre rear diffusor:

1x	Carbon-fibre rear diffusor	292-463-01
1x	Left trim grille	292-463-03
1x	Right trim grille	292-463-04
1x	Cover	292-463-06
1x	PTS-bracket	PTS-292-41
1x	PTS-bracket	PTS-292-42
1x	PTS-bracket	PTS-292-43
1x	PTS-bracket	PTS-292-44
1x	Bracket for rear diffusor	292-463-21
1x	Left exhaust bracket	292-463-23
1x	Right exhaust bracket	292-463-24
1x	Exhaust carrier plate	292-463-25
1x	Left exhaust bracket	292-436-27
1x	Right exhaust bracket	292-463-28
1x	Fog lamp	000-NSL-LED
1x	Fog lamp wiring harness	292-463-50
1x	Control unit (not a relay!)	292-463-51

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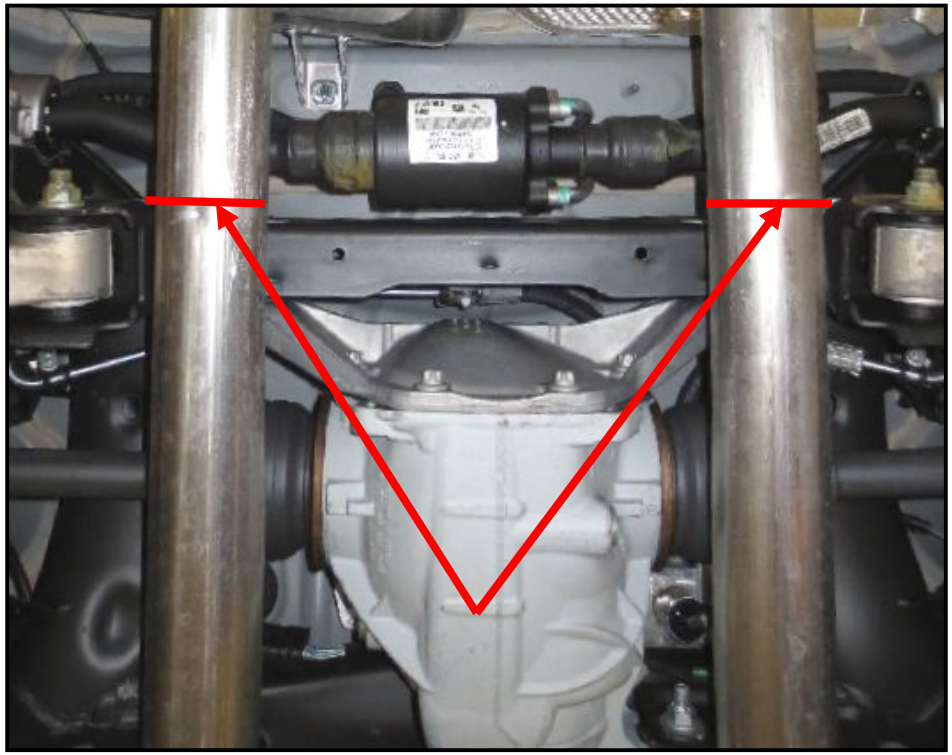
Attention:

The assembly consists of the following sections:

- *Mechanical assembly of valve controlled exhaust system*
- *Low pressure piping and assembly of lower pressure circuit components*
- *Electrical connections of valve controlled exhaust system*
- *Wiring harness connections of fog lamp*
- *Assembly of carbon-fibre rear diffusor*

Vorbereitung:

- Lift the car on a suitable platform at the Mercedes-Benz prescribed lifting positions with due regard to valid MB safety guidelines.
- Remove the standard rear silencer by cutting the exhaust pipes using a suitable tool according to image beside.
- Remove the rearbumper trim according to Mercedes workshop instructions. Take out the PDC sensors, the standard exhaust tailpipes and the PDC wiring harness.
- Remove the front left wheelarch-lining.



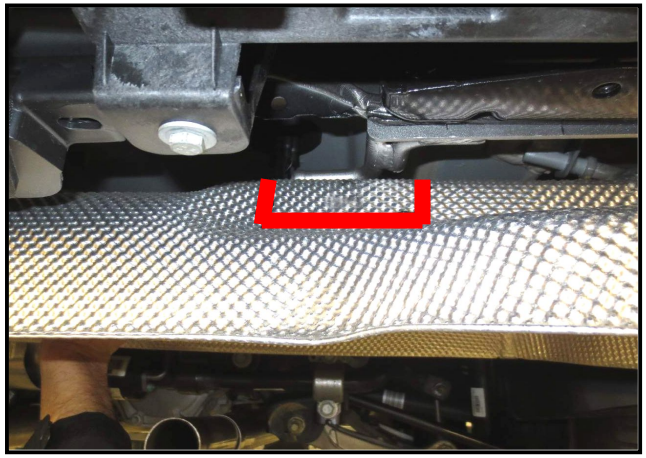
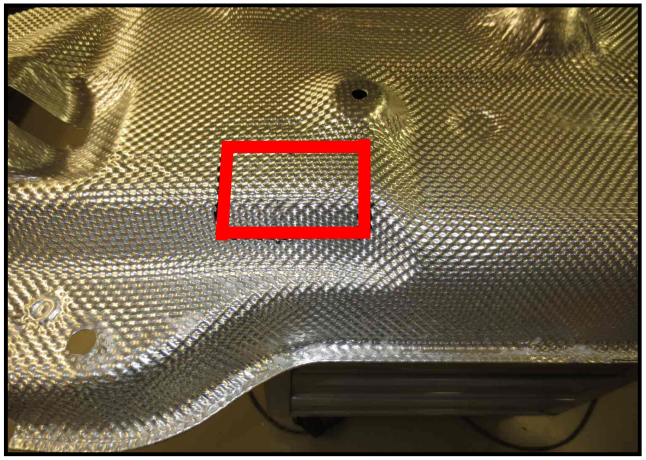
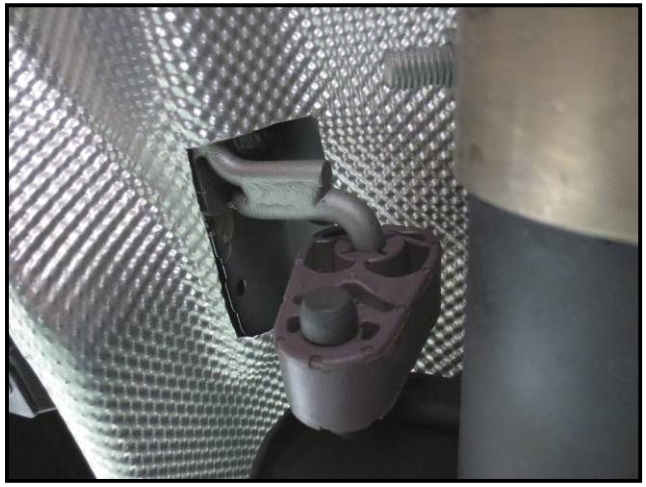
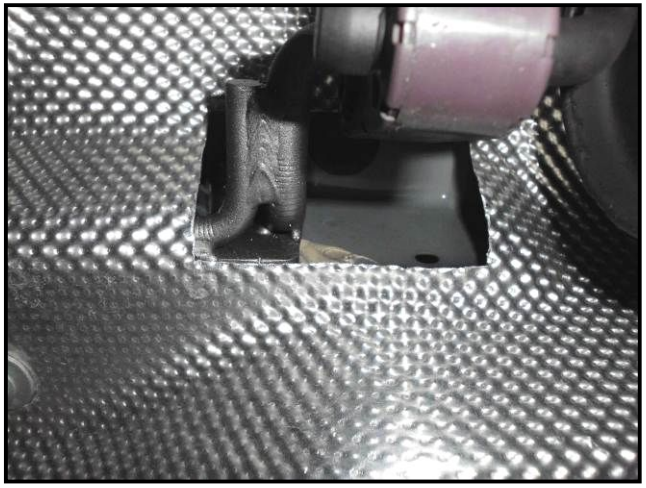
Attention:

Wear protective gloves/ glasses while cutting!

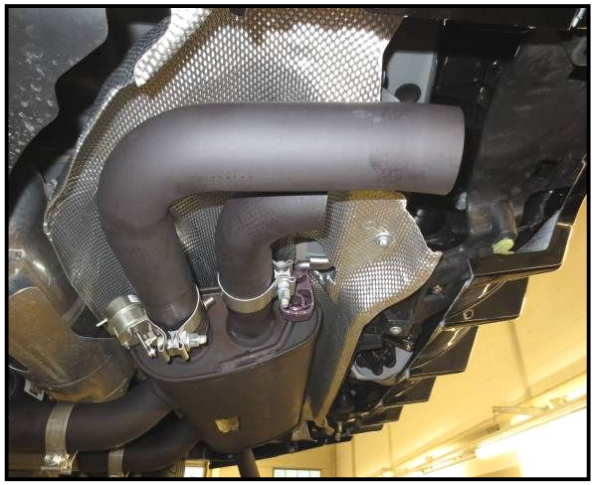
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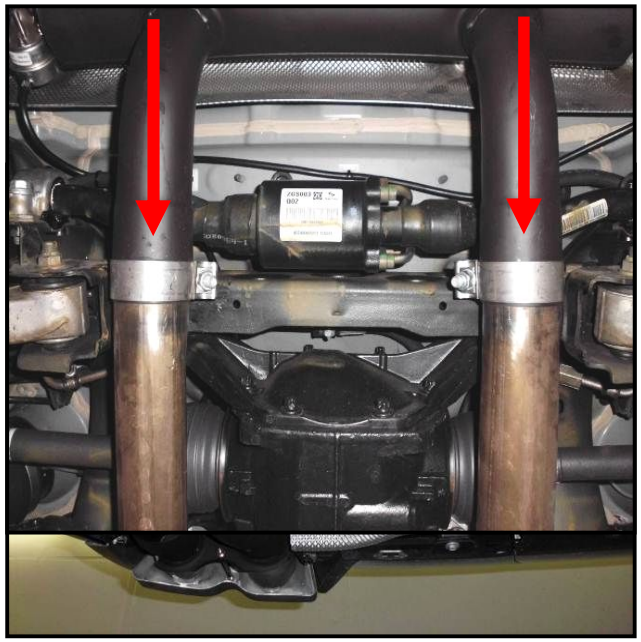
Mechanical assembly:

- Remove the heat shield (above rear silencer), attach the left and right silencer brackets according to images below. Mark the cutouts for the rear silencer brackets to the heat shield and cut out the marked areas using a suitable tool. Carefully bend the cutting edges, wear protective gloves! Please regard to images below. Re-attach the heat shield.


- Attach the rubber supports to the exhaust brackets and the Brabus silencer to the cutted standard pipes. Pre-align the silencers and lightly tighten the clamps in order to be able to align later.
- Attach the adapter exhaust pipes to the rear silencer, align these and pre-tighten the clamps supplied.

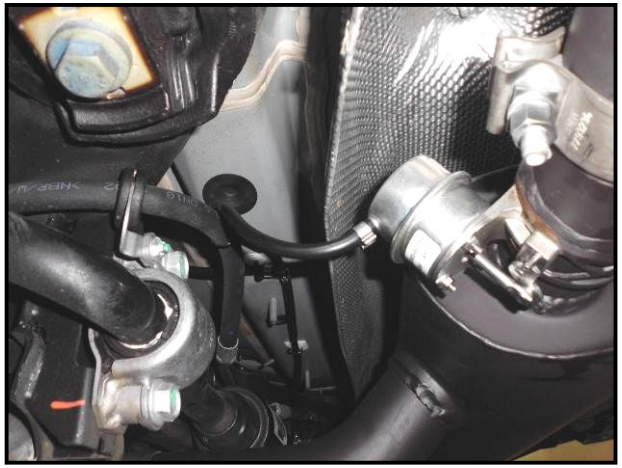




- ***Align the complete exhaust system, check for sufficient clearance in any area and make sure the Brabus rear silencer unit has been assembled free of tension.***

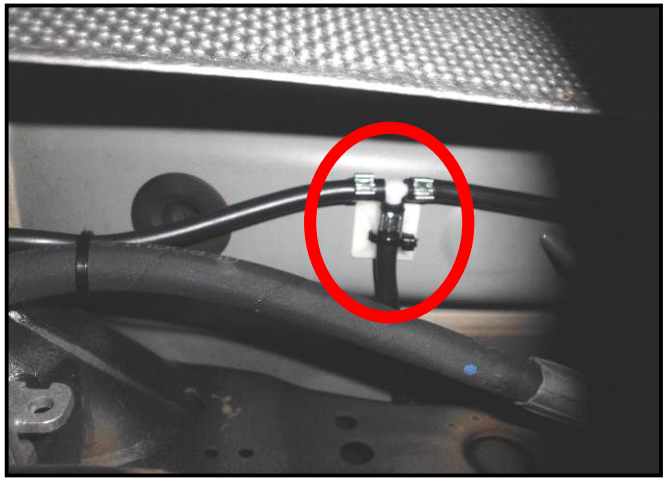
Assembly of low pressure circuit:

- Connect a 55 cm long piece of low pressure hose (3.5 mm diameter) to the left and a 55 cm long piece of low pressure hose (3.5 mm diameter) to the right exhaust flap. Secure the connections using clamps supplied.

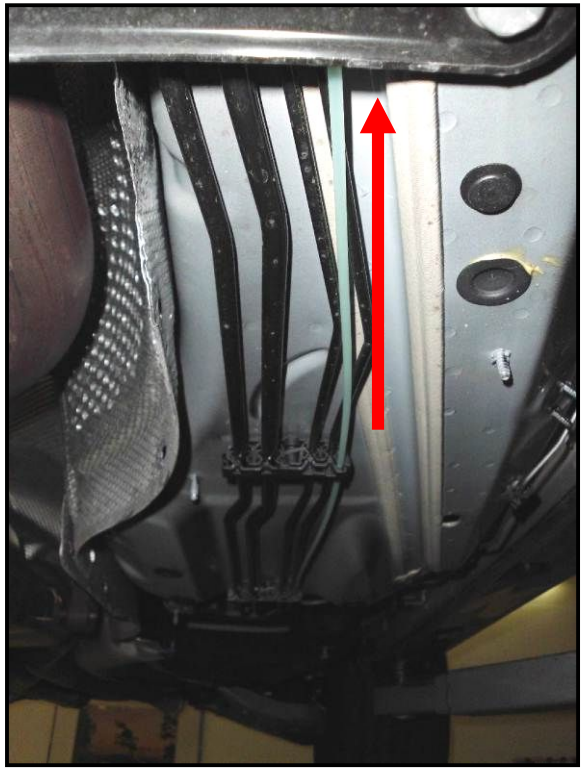


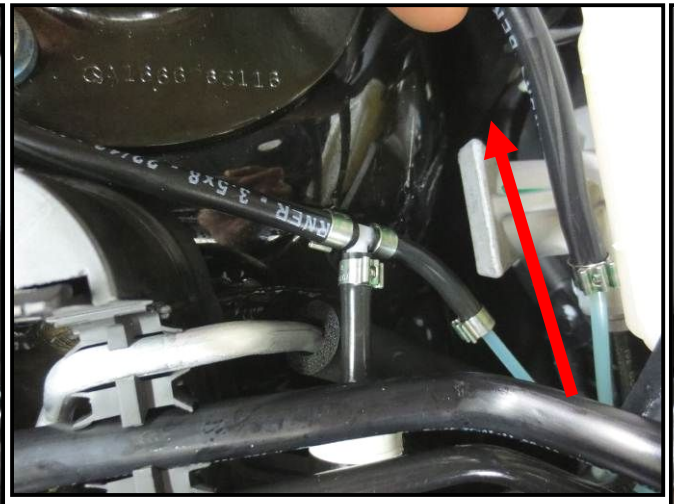


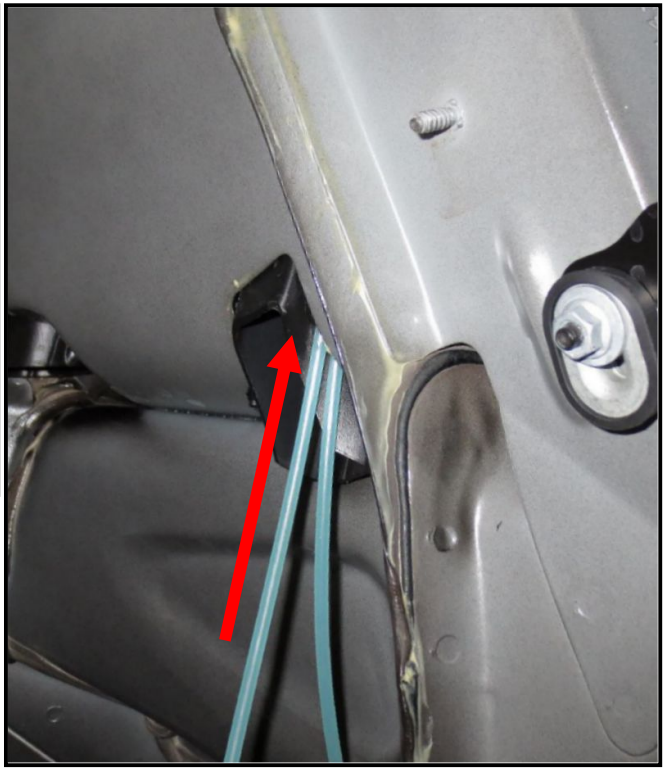
- Route the low pressure hoses to the car's underbody and connect both ends to one of the t-distributors supplied, secure the connections using clamps. Attach the T-distributor using one of the adhesive sockets supplied and a cable tie.



- Connect a 10 cm long piece of low pressure hose (3.5 mm) to the 3rd outlet of the t-distributor.
- Connect a 400 cm long piece of low pressure plastic pipe to the 10cm long piece of low pressure hose. Secure the connection using a clamp.
- Route the plastic pipe to the left side car underbody and along the standard brake pipes to the front of the car. Attach the plastic pipe to the standard underbody plastic brackets. Remove the front left wheelarch-liner and route the plastic tube through the front left wheelhouse into the engine bay (along water drain).



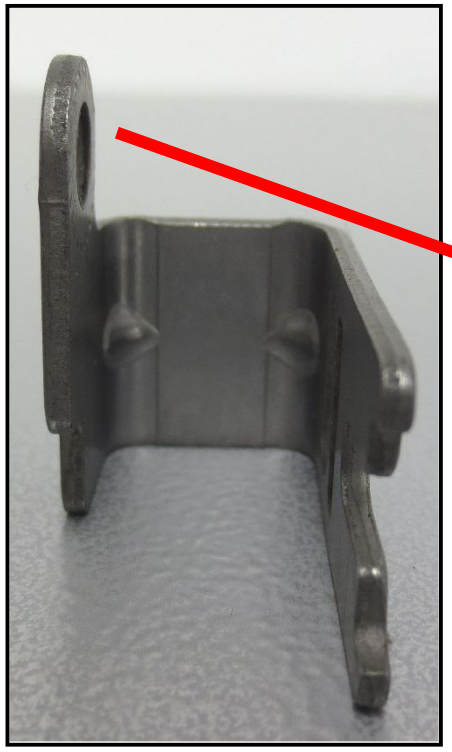


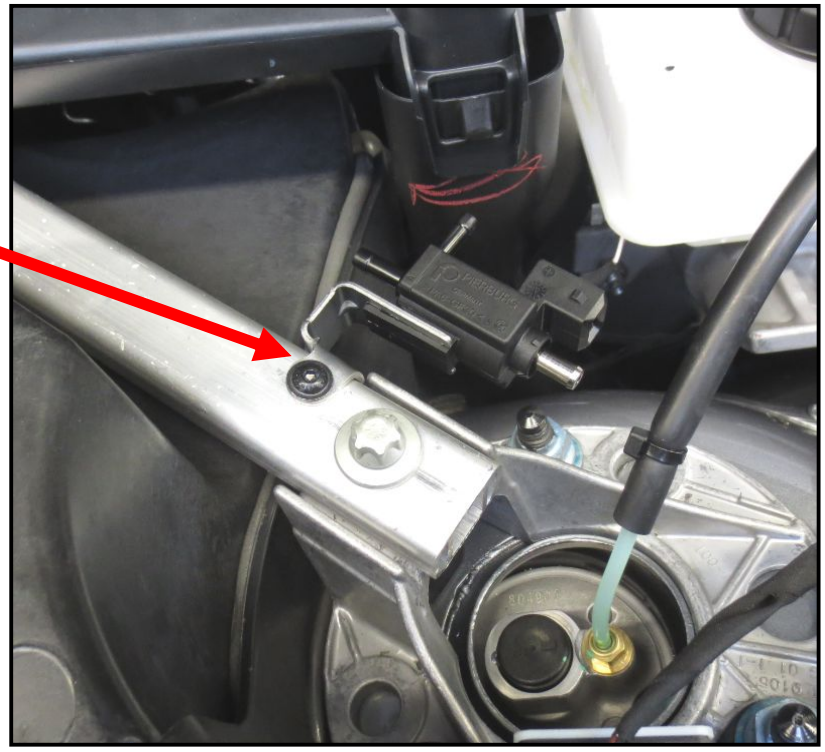


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- Connect the plastic pipe coming from the rear to a 20 cm long piece of low pressure hose (3.5 mm) supplied. Secure the connection using a clamp. Connect the hose to the control valve and also secure the connection using a clamp.

- Fixate the control valve to the left stiffening strut inside the engine bay using bracket supplied. Bend the bracket according to image prior to assembly.

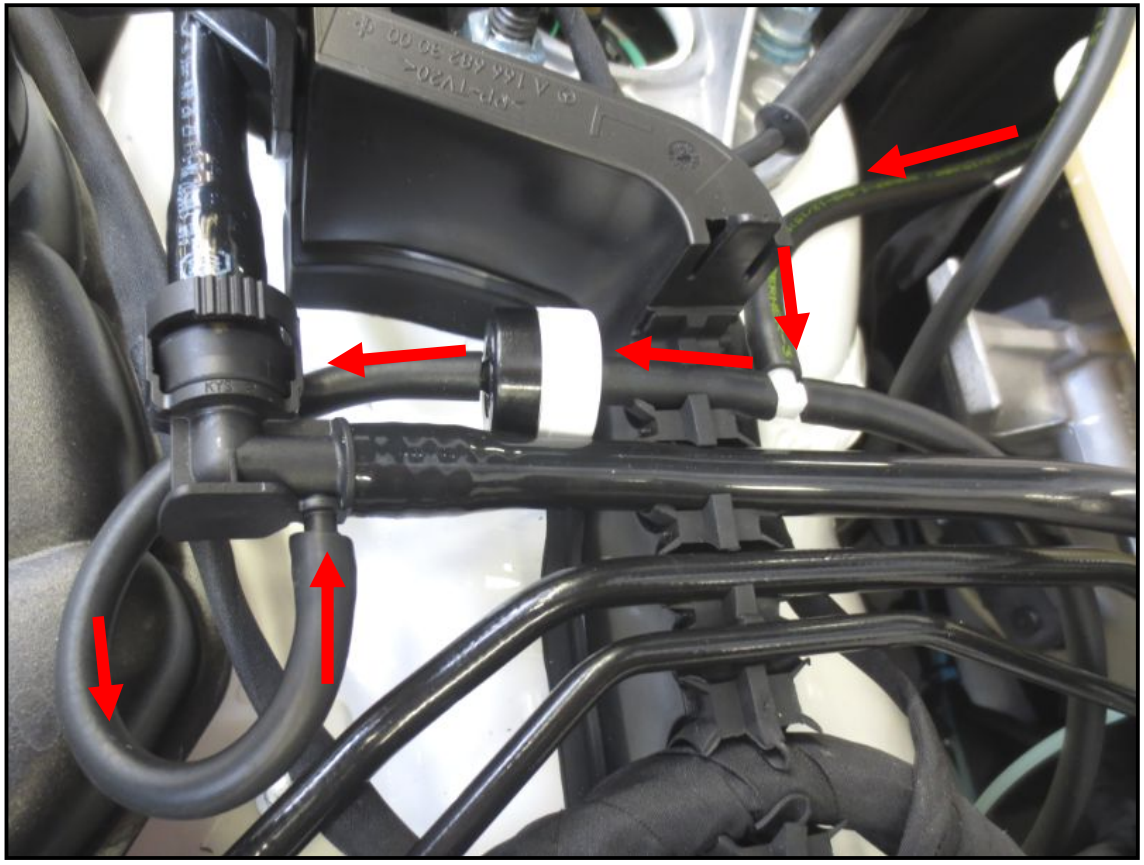






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- Connect the outlet of the control valve to a 30cm long piece of low pressure hose supplied.
- Remove the plastic trim left within the engine bay.
- Connect the low pressure hose to one of the T-distributors supplied. Connect one outlet of the T-distributor also to a piece of low pressure hose and connect the hose to the back pressure valve (take care for correct direction, according to image). Remove the cap of the standard low pressure connector and connect the back pressure valve to the low pressure connector using a piece of low pressure hose.



- Fixate the low pressure storage within the front left wheelhouse. Using the bracket supplied. Hold it to the a-pillar as shown and mark the positions where the assembly holes must be drilled. Drill the holes using a suitable drill, enlarge the holes of the bracket to the diameter of the screws and fixate the low pressure storage and the bracket using screws/ lock nuts supplied.



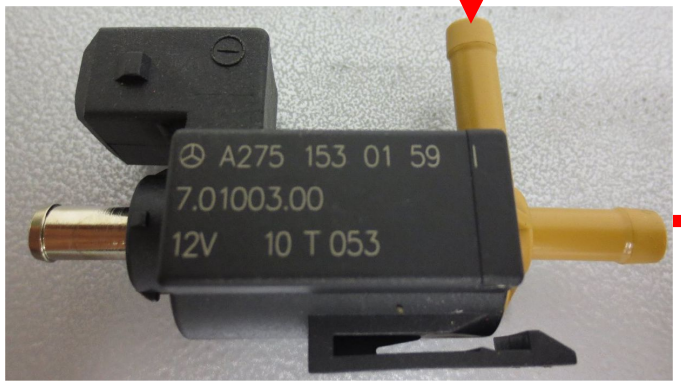
Attention:

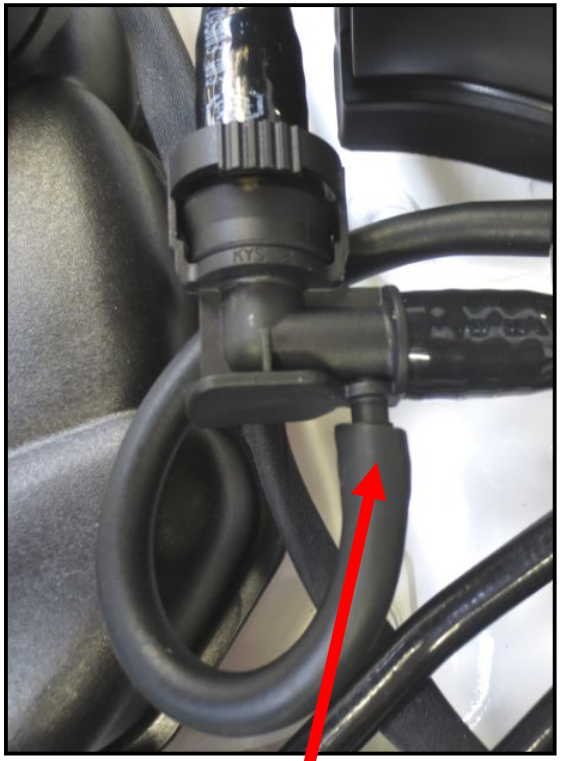
Make sure the hoses/ pipes and the storage itself cannot come into contact to the exhaust of the engine-independent air heating system.

- Connect one outlet of the t-distributor to a 5 cm long piece of low pressure hose and a 70 cm long piece of low pressure plastic pipe.
- Connect the low pressure plastic pipe to a 7 cm long piece of low pressure hose (3.5 mm), to one L-distributor supplied and to the low pressure storage.

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Hose coming from rear

To T-distributor

To low pressure storage

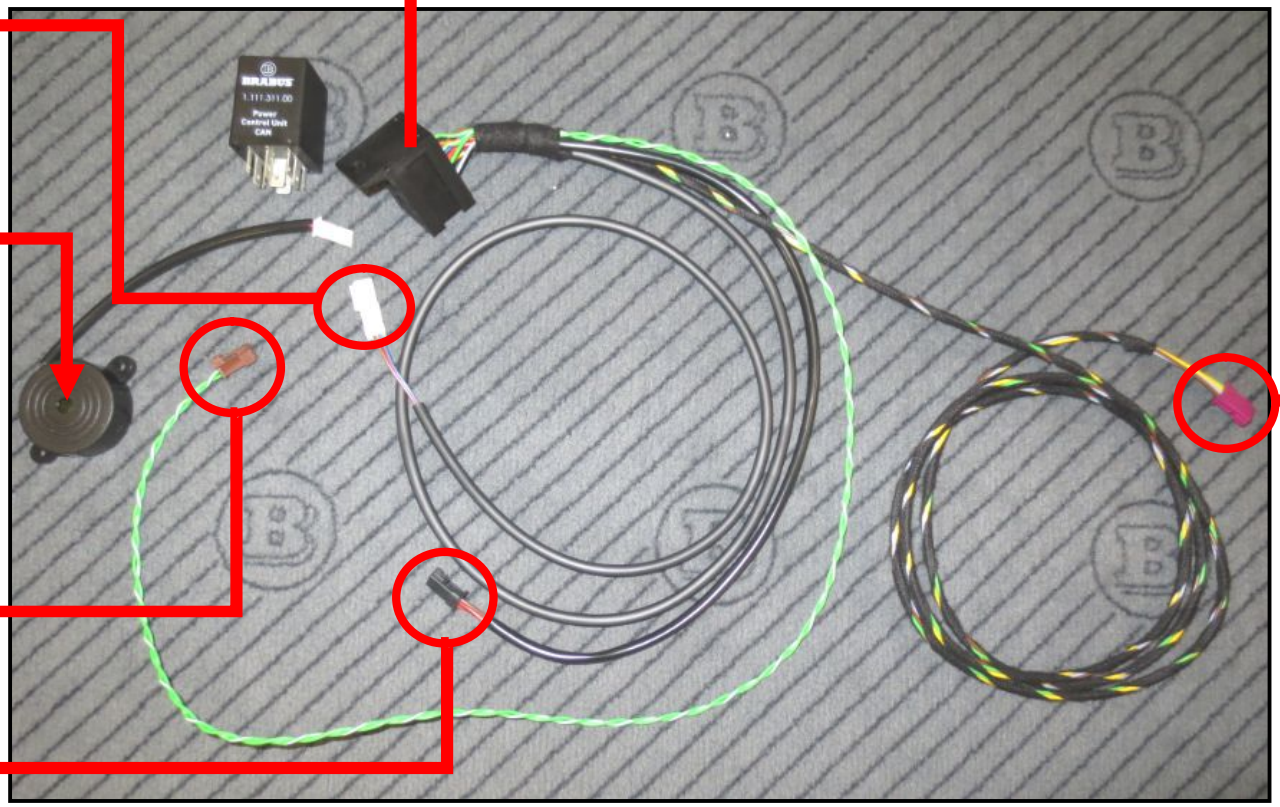
To back pressure valve, take care for correct position!

To low pressure connector

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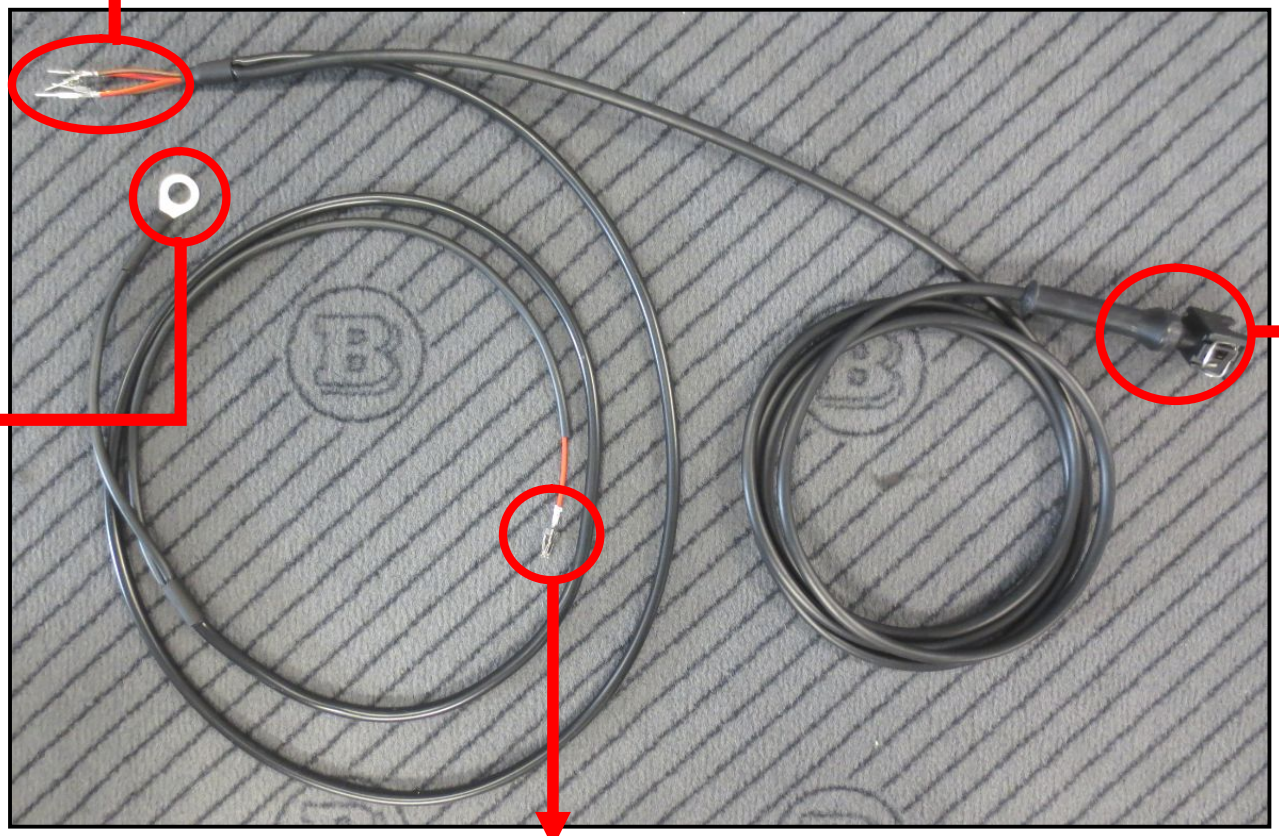
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Kabelsatz Innenraum:



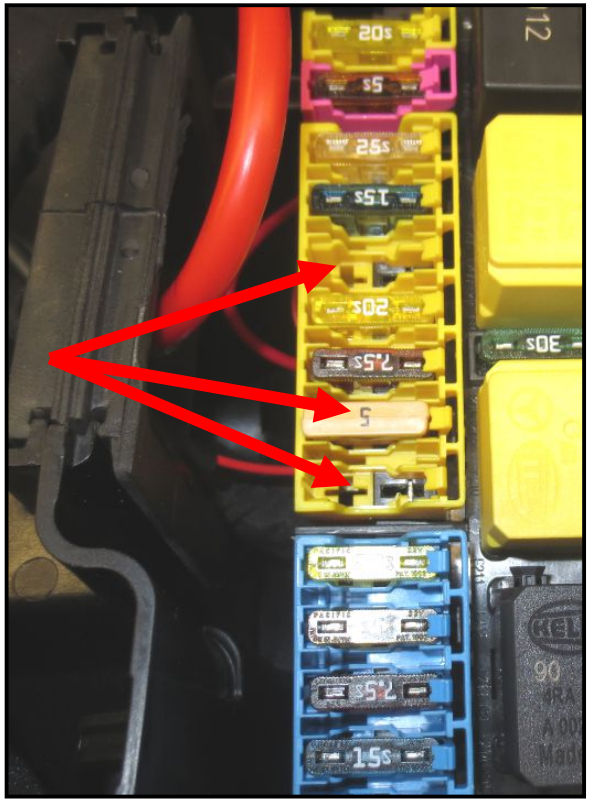
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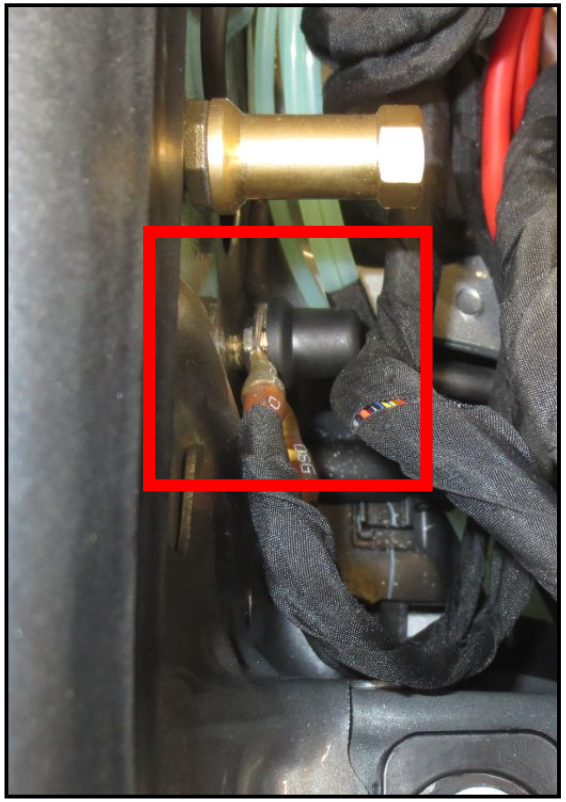
Kabelsatz Motorraum:



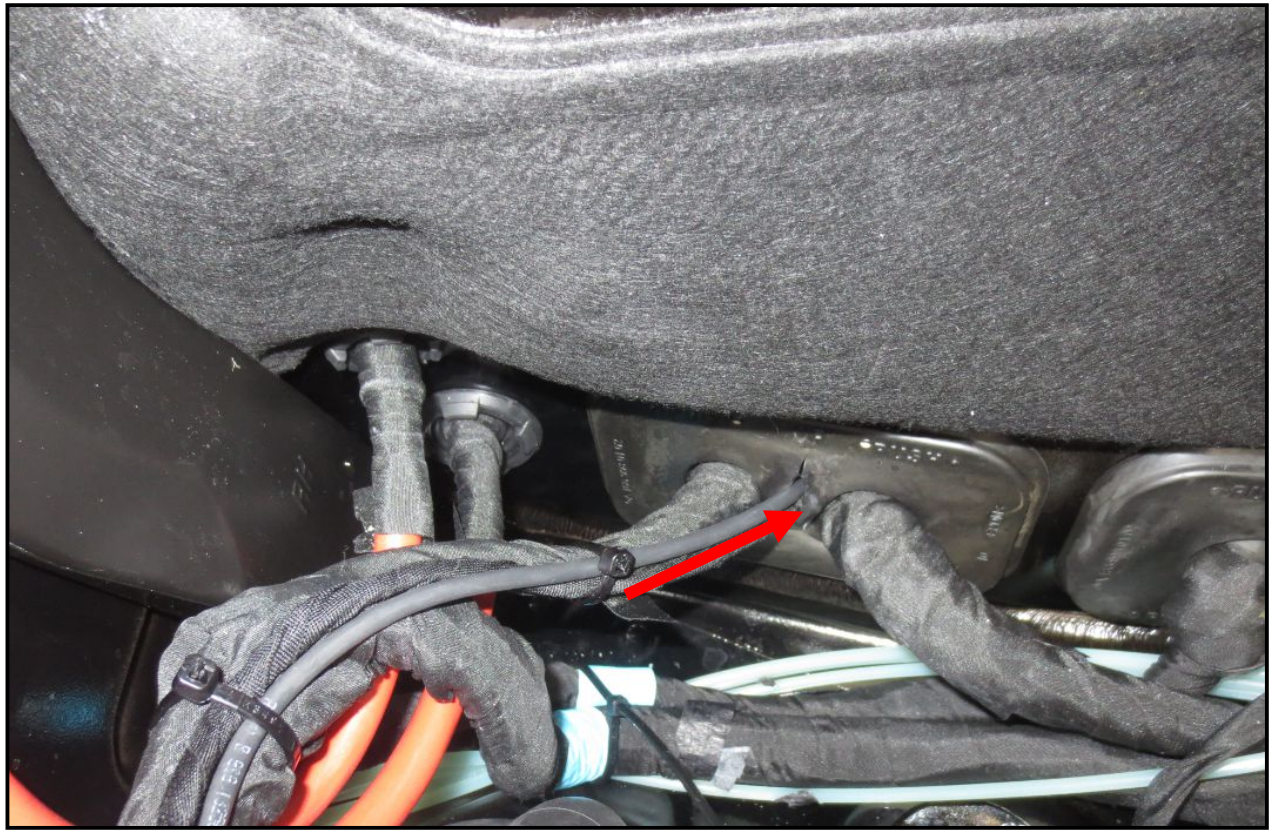
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- Remove the right lower dashboard cover and fold up the flooring to gain access to the implementation (into engine bay) and the CAN distributor.
- Connect the engine bay wiring harness to the control valve and route the wiring harness to the passenger side.
- Open the fuse and relay box within the engine bay and route the power supply cable of the Brabus wiring harness into the fuse and relay box. Attach the connector to one of the yellow slots shown (+12V constant power supply).
- Bolt the ground ring lug to the ground terminal shown.



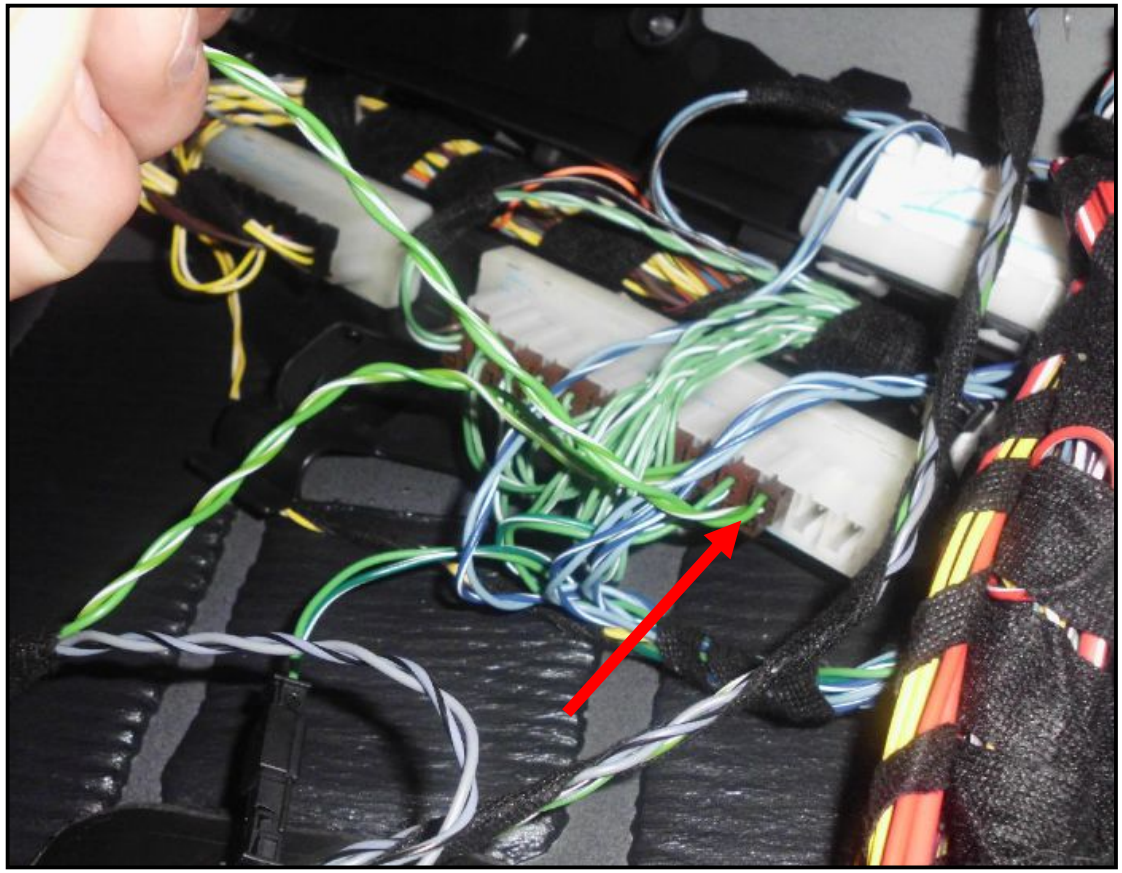


- Route the connector for the interior wiring harness to rubber grommet shown. Slightly cut the rubber grommet and route the connector through it and into the vehicle. Seal the implementation using suitable adhesive/ sealing (e.g. PU adhesive).

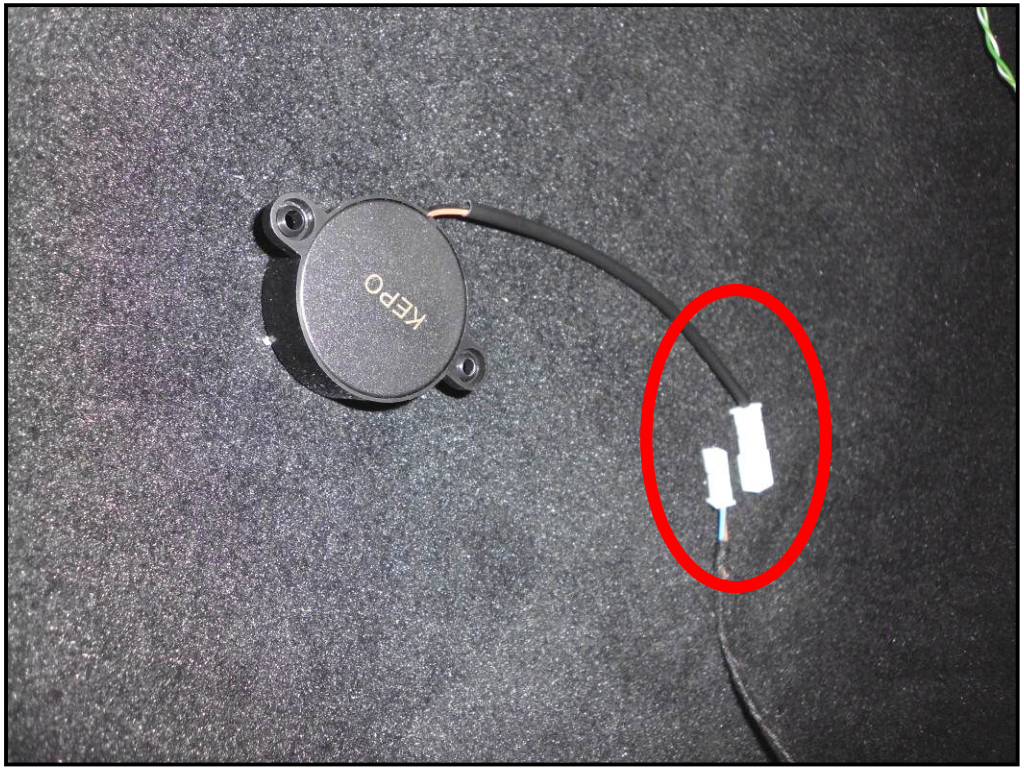


CAN-connection:

- Attach the CAN plug of the Brabus wiring harness to a free port of the CAN distributor shown. If all ports are used already solder the CAN wires to the wires out of one already plugged connector.



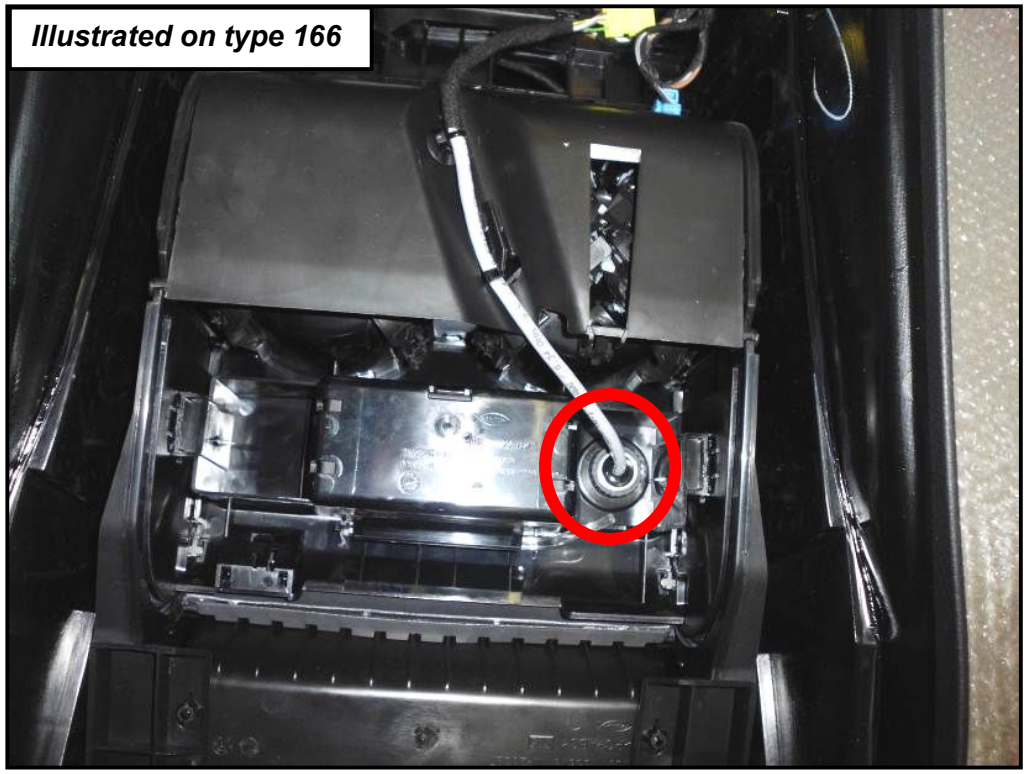
- Connect the Brabus wiring harness to the switch confirmation beeper and fixate the beeper below the plastic cover inside the passenger footwell. Attach the control unit to the socket and also fixate it within the passenger footwell.



Control button assembly (optionally):

- The control button is not included in delivery and can optionally be ordered. If the customer would like the car to be equipped also with the button, please calculate two additional hours of labour. The centre console must be removed according to MB workshop instructions, the control button then replaces the standard cigar lighter plug and gets attached using the plastic sleeve supplied within delivery of the control button. For details please regard to following images.

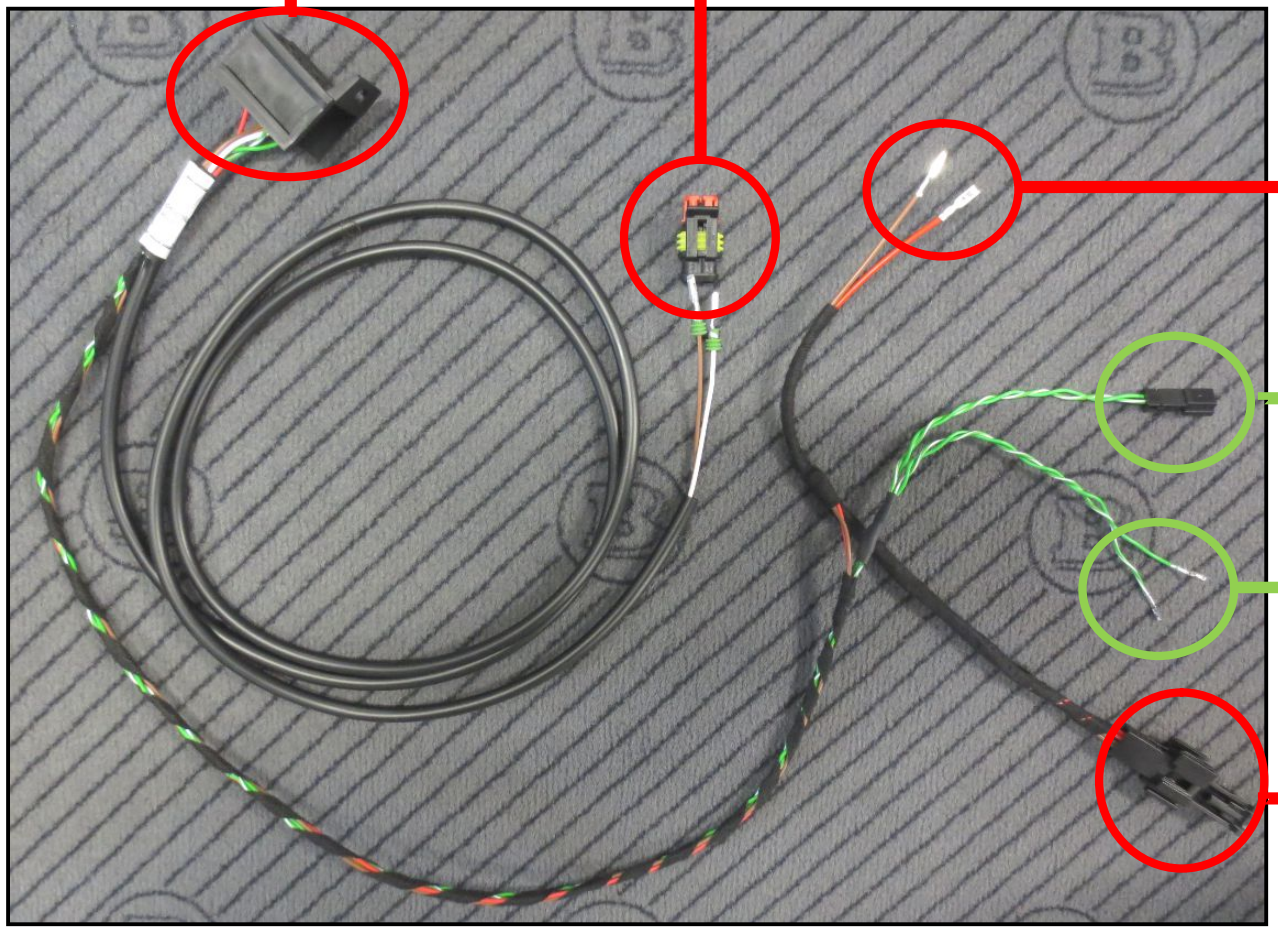
Illustrated on type 166





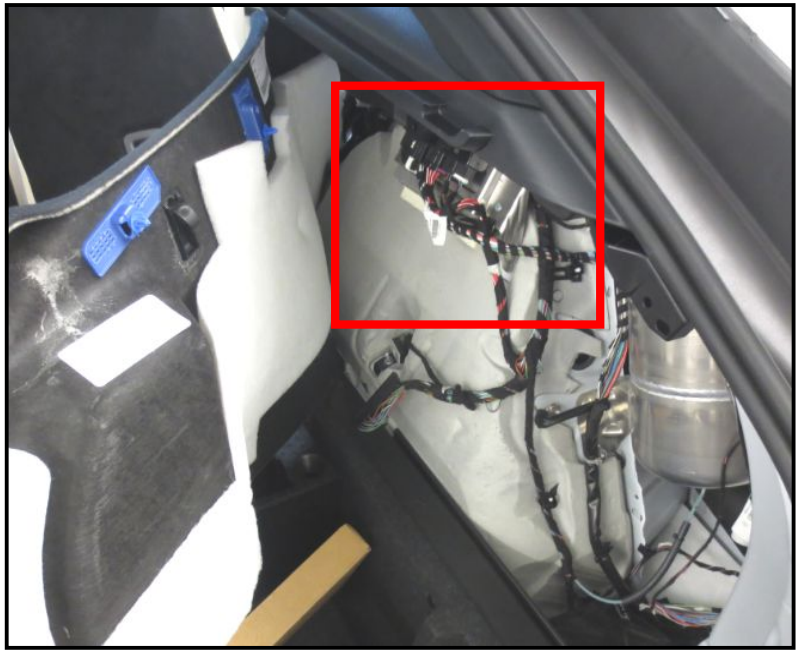
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Electrical connections of fog lamp:

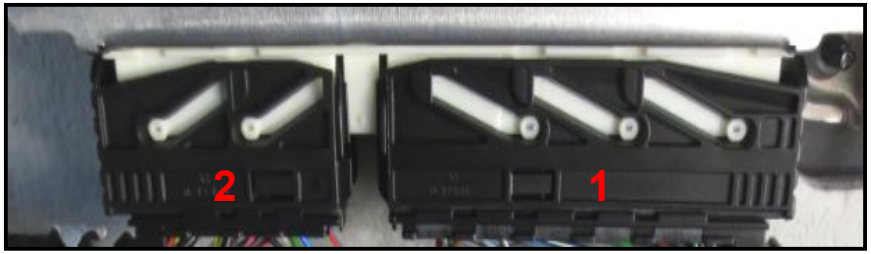


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- Remove the right sidewall trim to get access to the Airmatic control unit.



- Disconnect plug 1 of the Airmatic control unit and remove the cap.



- **Detach the signal wires of the Airmatic control unit plug 1 using a suitable unlocking tool and attach these to the 2-pole plugs supplied. Attach the wires of the Brabus wiring harness to plug 1 according to assignments below.**

  - Unlock the wire out of slot **21** (BN, ground) of plug 1 using unlocking tool supplied and attach it to slot **1** of the big 2-pole plug supplied. Attach the brown wire (BN) of the Brabus wiring harness to slot **21** of plug 1.

  - Unlock the wire out of slot **47** (RD, +12V, constant power supply) of plug 1using unlocking tool supplied and attach it to slot **2** of the big 2-pole plug supplied. Attach the red wire (RD) of the Brabus wiring harness to slot **47** of plug 1.

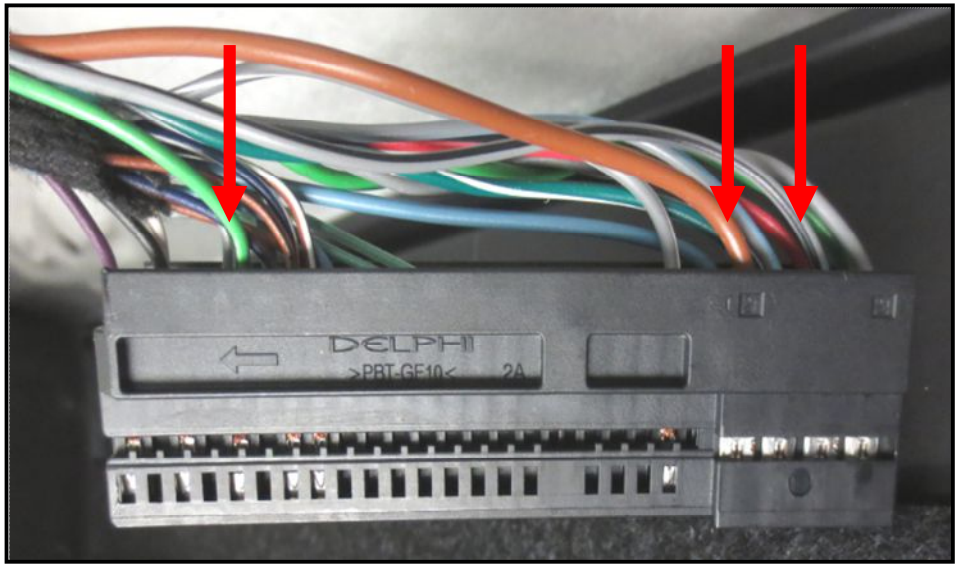
  - Unlock the wire out of slot **37** (GN, CAN-low) of plug 1 and attach it to slot **1** of the small 2-pole plug supplied. Attach the green wire (GN) of the Brabus wiring harness to slot **37** of plug 1.

  - Unlock the wire out of slot **38** (GN/WH, CAN-high) of plug 1 and attach it to slot **2** of the small 2-pole plug supplied. Attach the green-white wire (GN/WH) of the Brabus wiring harness to slot **38** of plug 1.

- **Connect the 2-pole plugs to the 2-pole sockets of the Brabus wiring harness.**

- Route the wires for the fog lamp to the rubber grommet within the rear end wall and through the rubber grommet out of the vehicle. Attach the pins to the 2-pole plug supplied.
-





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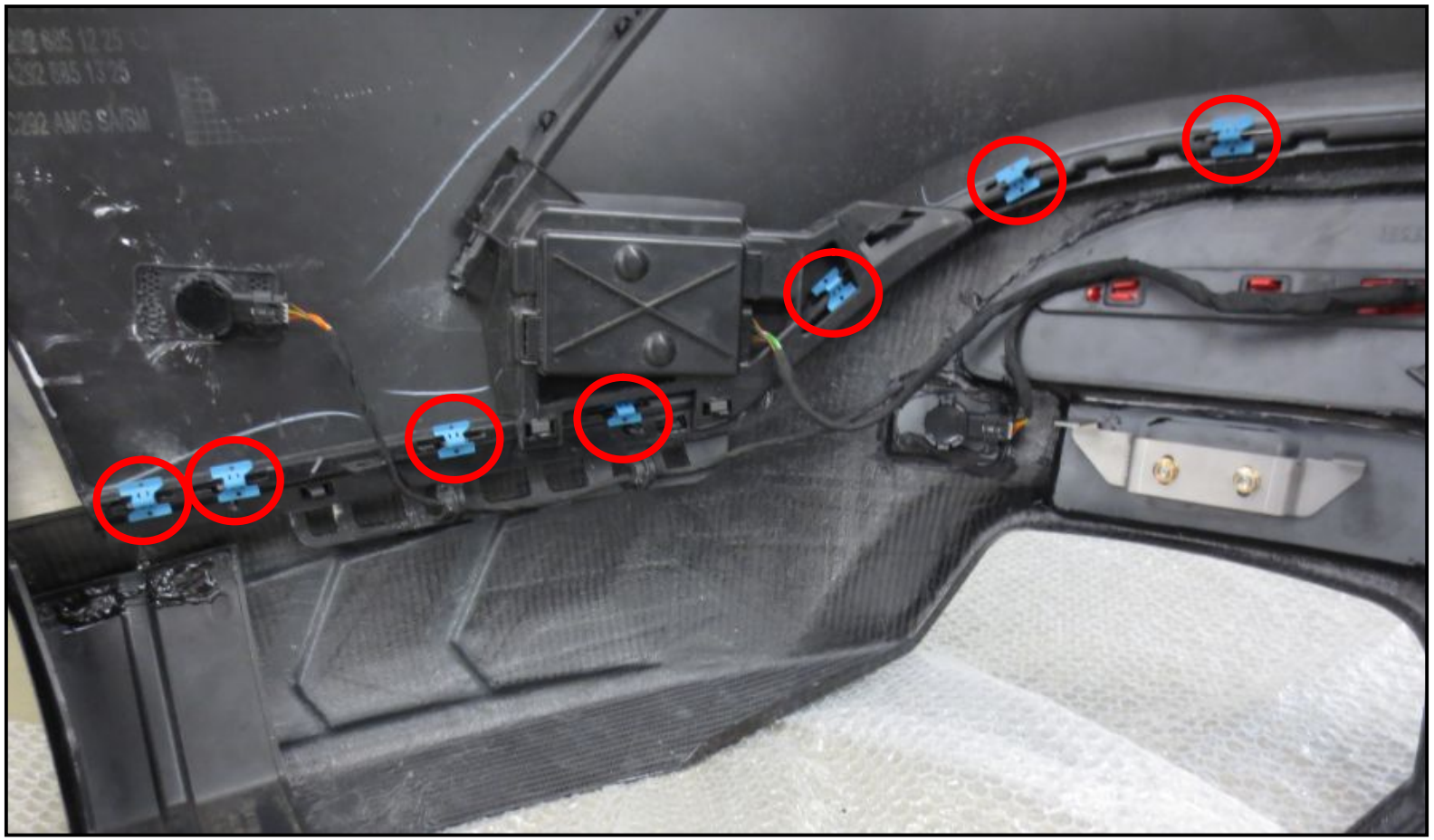
Assembly of exhaust tailpipes and carbon-fibre rear diffusor:

- Bolt the exhaust tailpipes to the exhaust funnels according to images below.



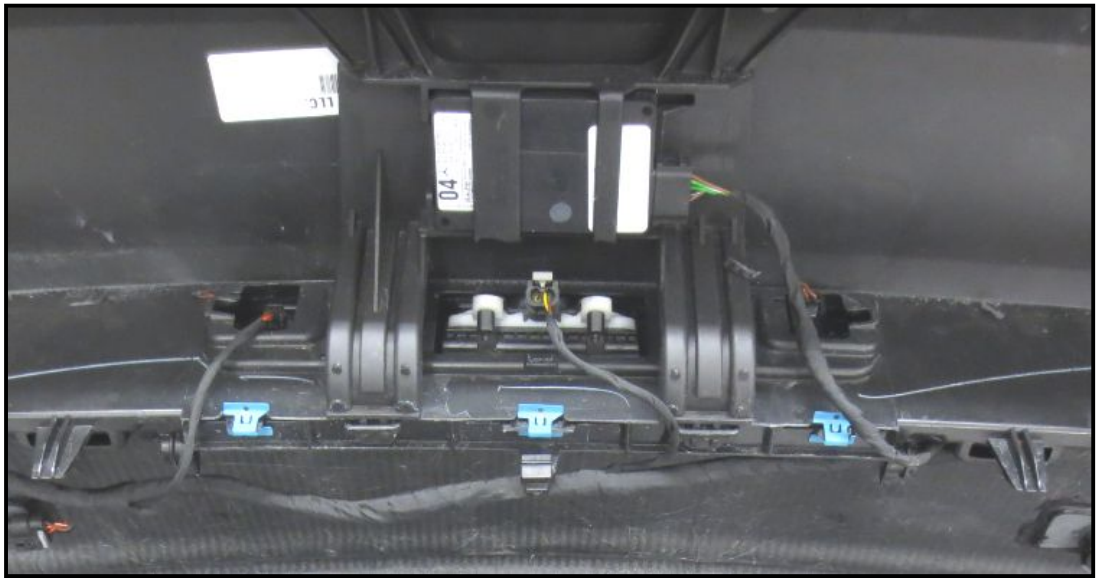


- Lay the carbon-fibre rear diffusor to a flat surface and attach it to the rearbumper at the fixation points of the standard rearbumper trim attachment. Align it and secure it by using clips supplied.



- Bolt the stainless steel brackets to the carbon-fibre rear diffusor and attach the bootlid opener to the mounting position.

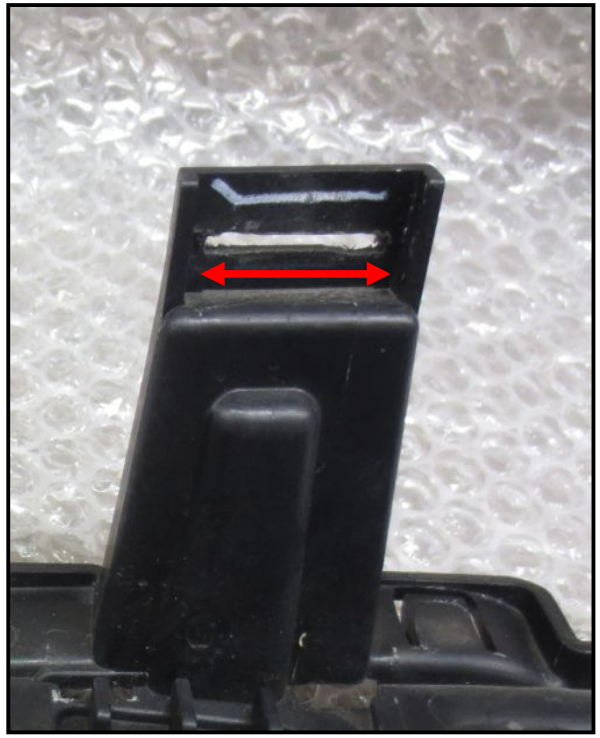




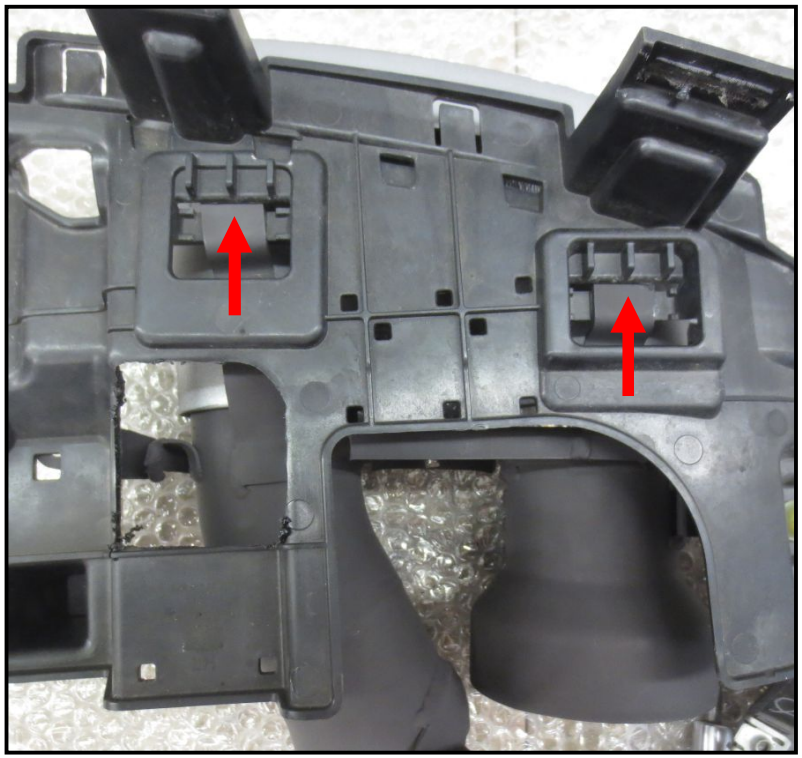
- Cut the areas marked within images below out of the plastic inlays using a suitable tool. Widen the slots outward according to red arrow.

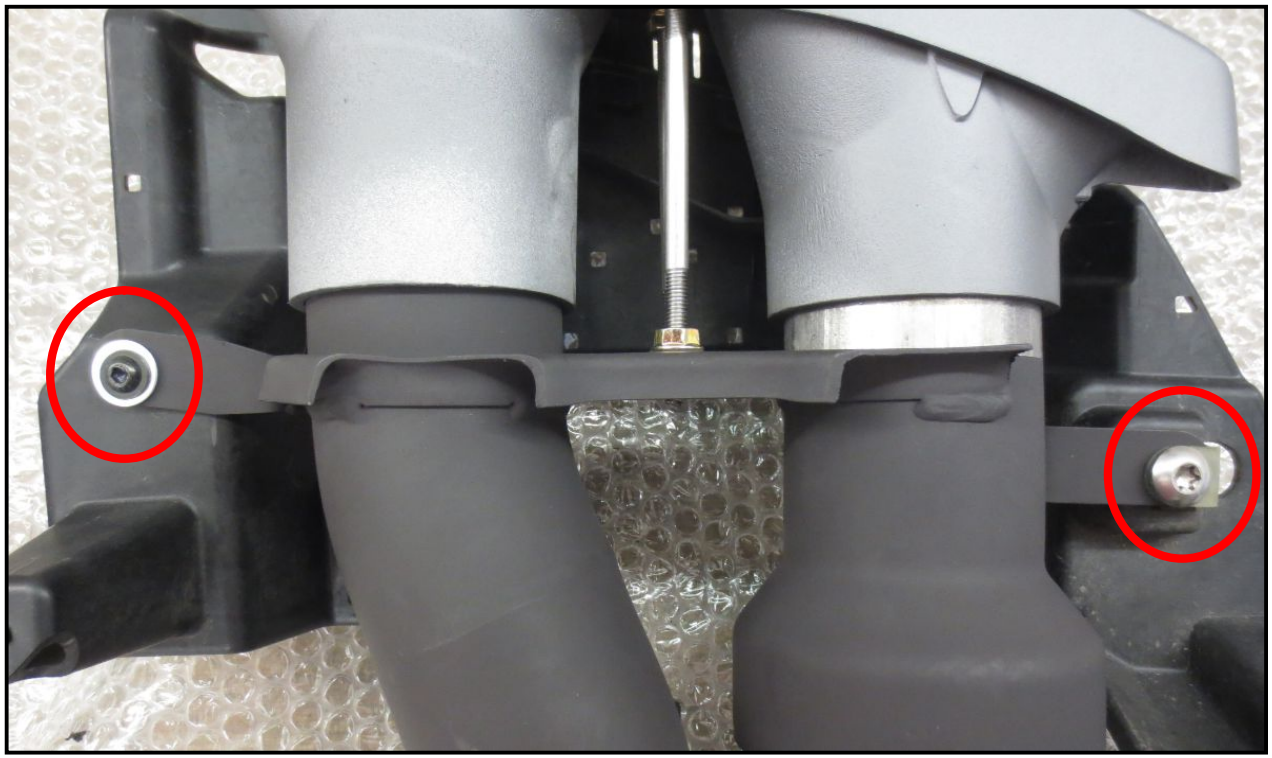






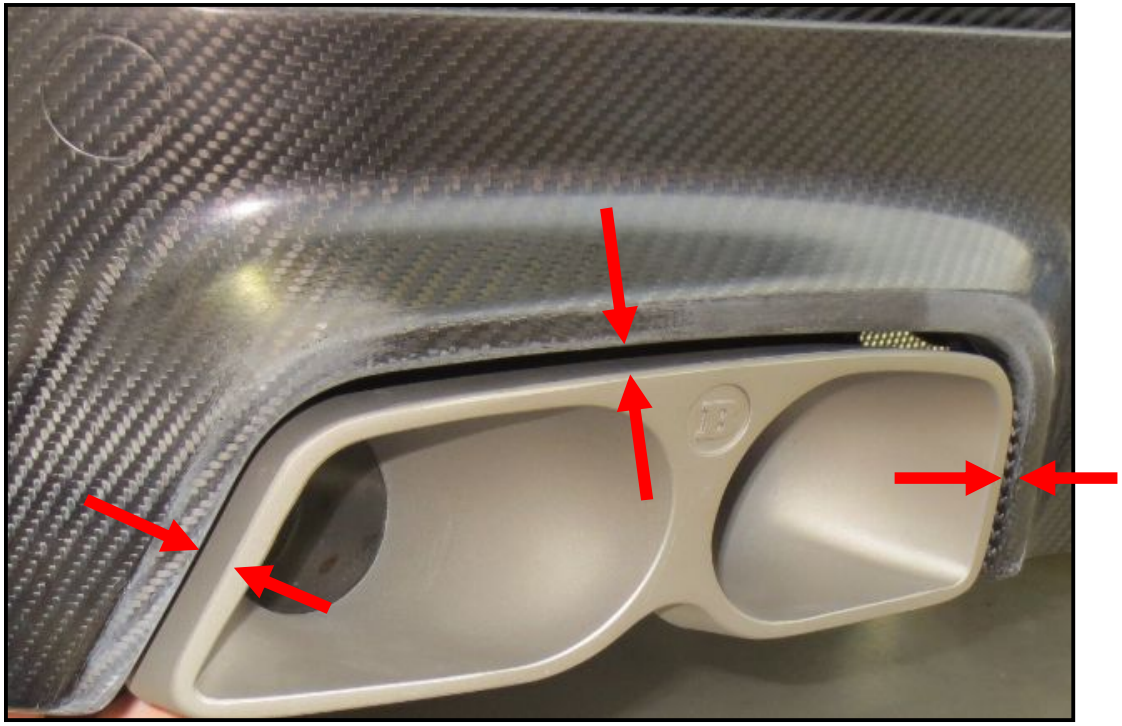
- Attach the completed exhaust tailpipe units to the plastic inlays and bolt the parts together.





- Attach the tailpipe units and the plastic inlays to the rear diffusor (to the stainless steel lugs) and align the tailpipes within the notches of the rear diffusor.



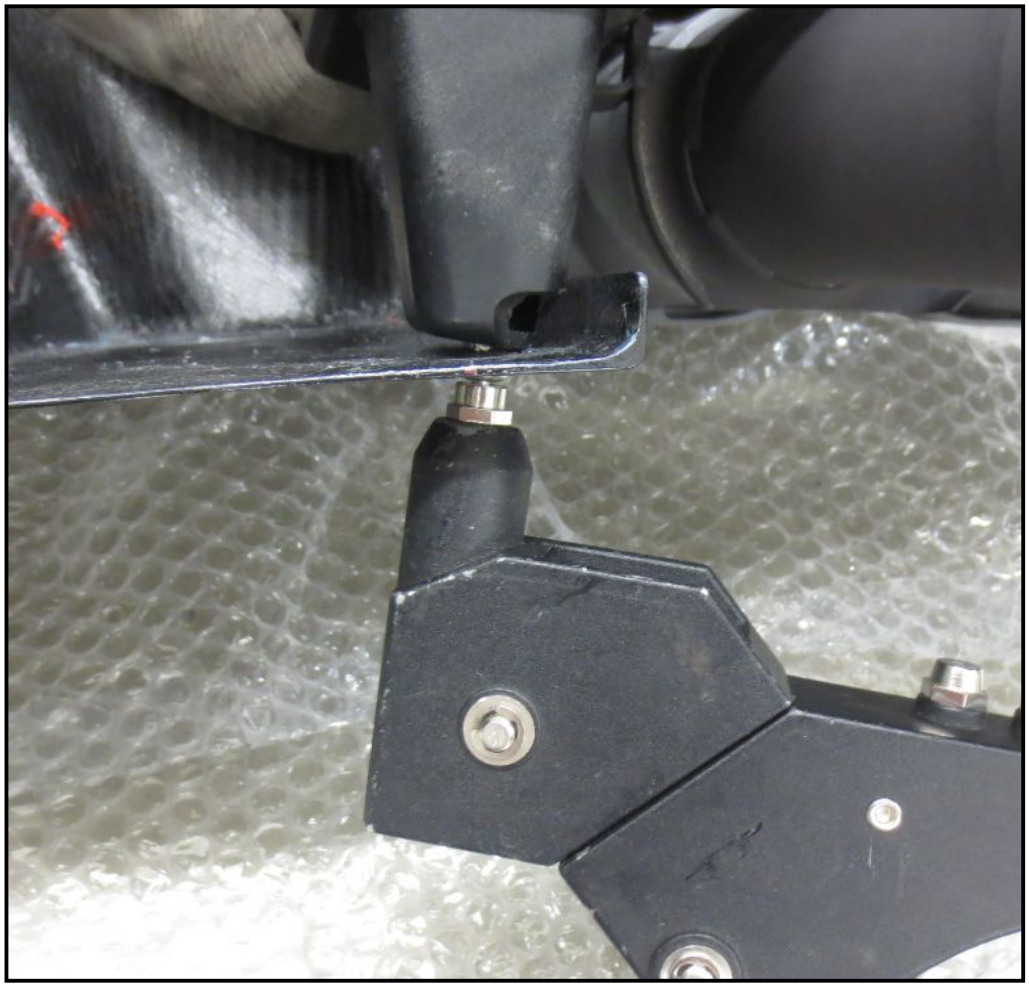


- After alignment mark the positions for the rivets on the rear diffusor. Drill 4mm holes at the marked positions.





- Fixate the tailpipe units by using alloy rivets supplied.



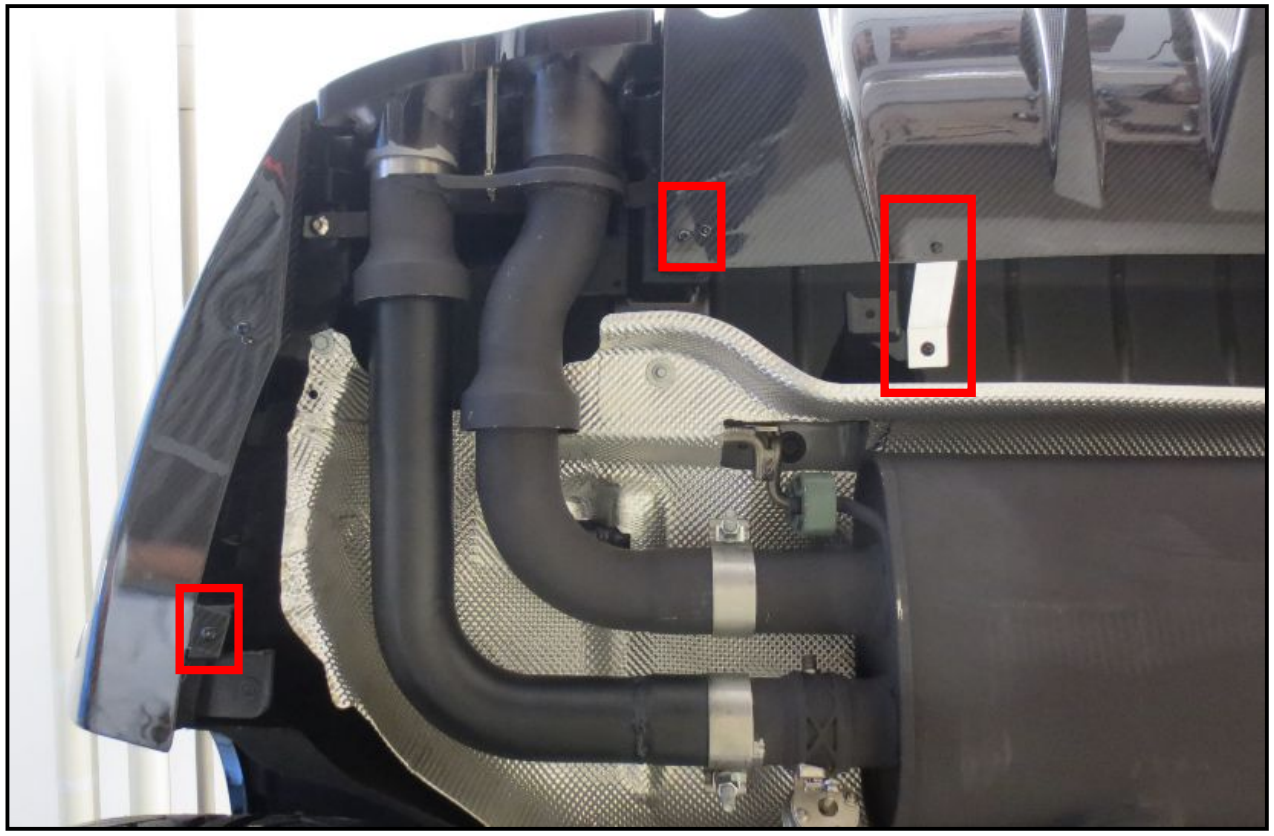
- Attach the completed rearbumper trim to the vehicle. Make sure the exhaust pipes are centered within the exhaust tailpipe funnels. Align the exhaust pipes, if necessary.

- Fixate the upper stainless steel brackets to the rear end body wall using screws and nuts supplied. It can be necessary to turn the exhaust pipes to access the screws for tightening.



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- Fixate the bottom of the rear diffusor using brackets/ alloy rivets supplied according to image below.



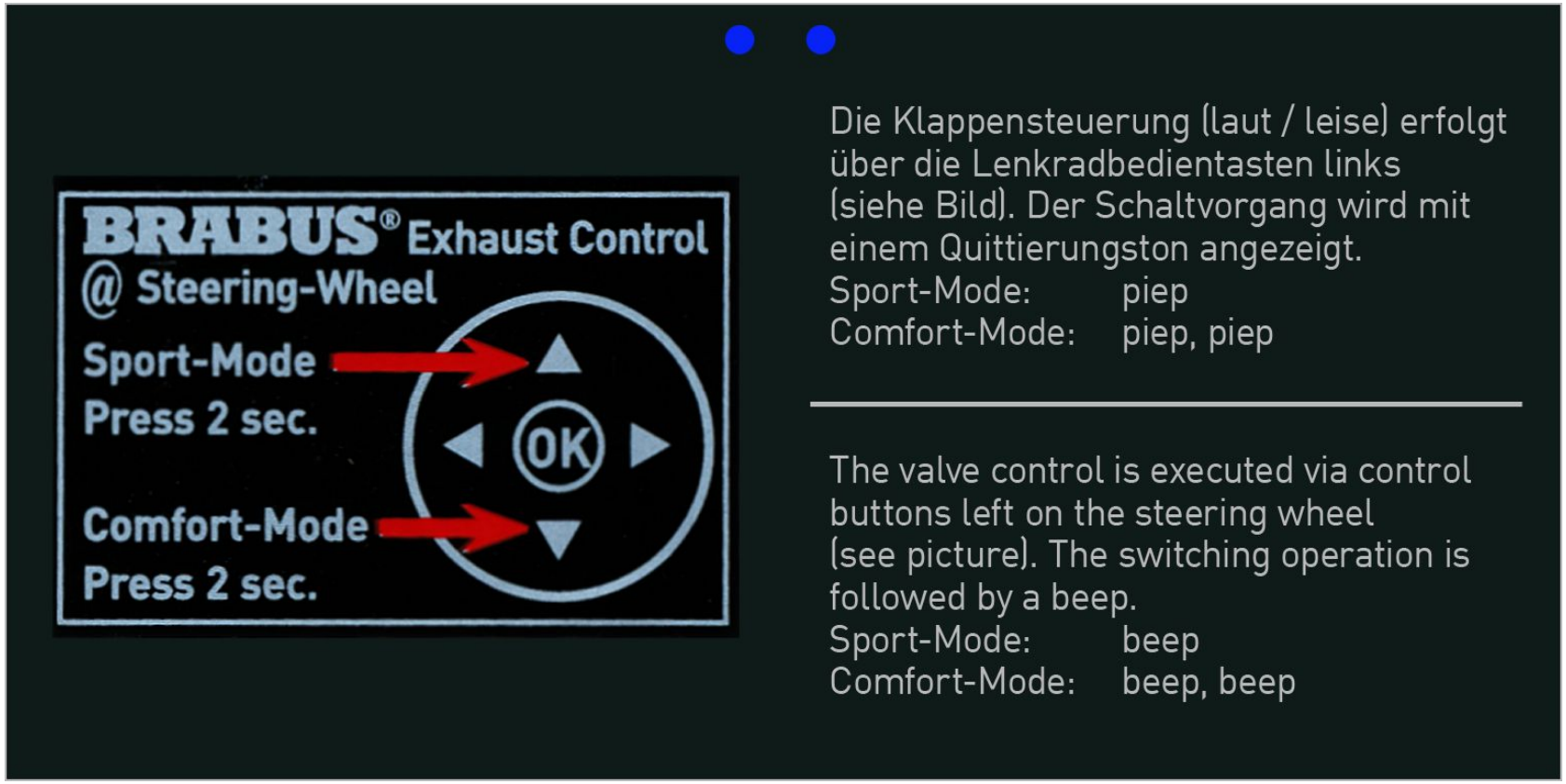
- Re-attach all trim parts and perform a test-drive.
- After test-driving the vehicle once again check the alignment of the exhaust system and the tailpipes. Re-align, if necessary.
- Check the function of the exhaust valves and the fog lamp.

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

- ***Function description:***

- ***Vehicle always starts with the exhaust flaps in position „quiet“ (flaps closed) and can be switched to position „loud“ by using the steering wheel buttons (up and down) when driving (not when standing!).***

- ***Please regard to instructions below which are (printed) also included in delivery. Attach the printed version of the instructions to the direction-indicator control.***

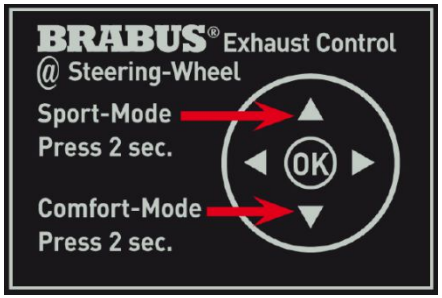


! Please hand this information over to the customer!

Additional function:

In addition to the known functions of the valve controlled exhaust system (switch between sport and comfort-mode) the exhaust system can be switched from **EC-mode** to **Expert-mode**.

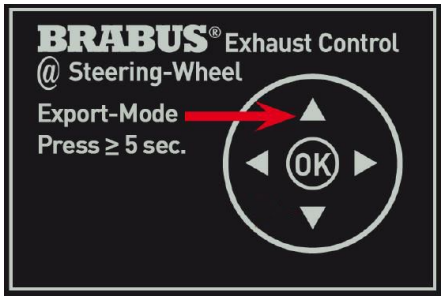
Push and hold the button for more than five seconds in order to avoid an unintentional change between the modes.



Activation of Expert-mode:

By pushing the “Sports”-button for more than five seconds the system can be switched to **Expert-mode**.

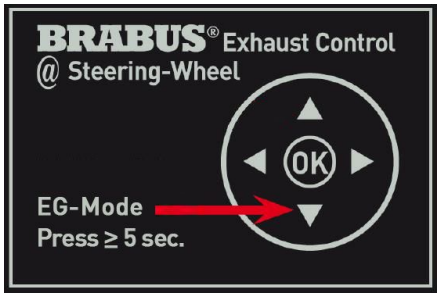
This means that the exhaust valves standardly are in Sports-mode when the car is started (valves open).



Attention:
This is exclusively an export mode.
When the system standardly is switched to Sports-mode the EC type approval no longer is valid and, depending of the country the car is registrated to, there is no insurance protection.

Activation of EC-mode:

By pushing the “Comfort”-button for more than five seconds the system can be switched to EC-mode.
This means that the exhaust valves standardly are in Comfort-mode when the car is started (valves closed).



Attention:

When the system is switched to EC mode the exhaust valves only can be opened when the vehicle is driving. For testing them while the car is standing push the “open”-button and keep it pushed for some seconds. The exhaust valves will open after a while and stay open as long as the button is being pushed.