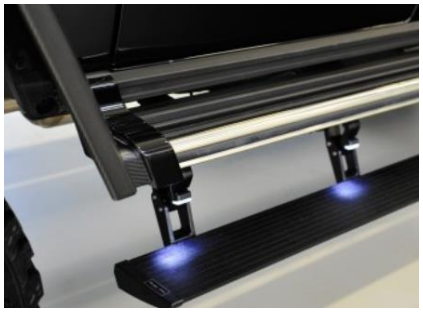


Easy entrance assist including stainless steel valve controlled sports exhaust for G500 4x4²

463-330-92

BRABUS®

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.
Please read these instructions carefully and check the content of the parts supplied prior to assembly. Wear protective clothes.

Included in delivery BRABUS:

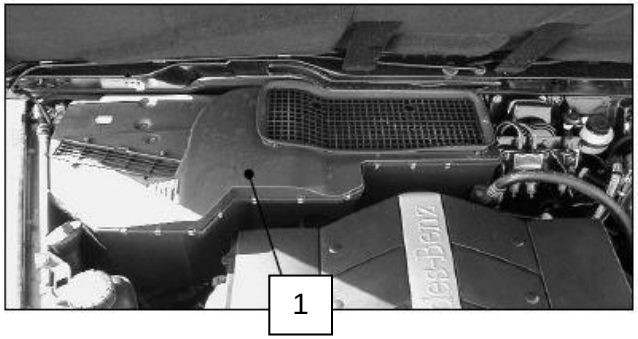
1x	Base kit electric running boards	ETB-G63-4x4-13
1x	Illumination control unit	463-356-13
1x	Control unit for left running board	463-356-23
1x	Control unit for right running board	463-356-33
1x	Control unit wiring harness	463-330-05-K_V1.
1x	CAN-wiring harness	463-330-06-K
1x	Power supply wiring	463-330-11-K
1x	Connection wiring	463-330-21-K
2x	Running board wiring harness	463-330-32-K
2x	Extension wiring harness	463-330-40-K
1x	LED lamp	ETB-LED
12x	Cable tie	
1x	Adhesive velcro tape	
1x	Valve controlled sports exhaust G 4x4	463-678-63-TB-4X4

1x	463-678-63-TB-4X4-A	Exhaust base kit
1x	463-600-98	Mechanical parts kit
1x	463-600-95	Exhaust wiring harness
1x	463-600-64	Control unit “Power Control”
1x	463-678-63-M176	Exhaust support kit

2

Preparation:

1. Open the bonnet and remove the blower housing (**1**) within the engine bay.



2. Loosen and remove both front wheelarch-liners.
3. Remove the glovebox and the left and right side lower dashboard cover.
4. Remove the standard rear silencers according to Mercedes-Benz workshop instructions (Document-no. AR49.10-P-7000GW).
5. Disconnect the vehicle main battery (in front of rear bench, below cover).

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Overview of electrical connections:

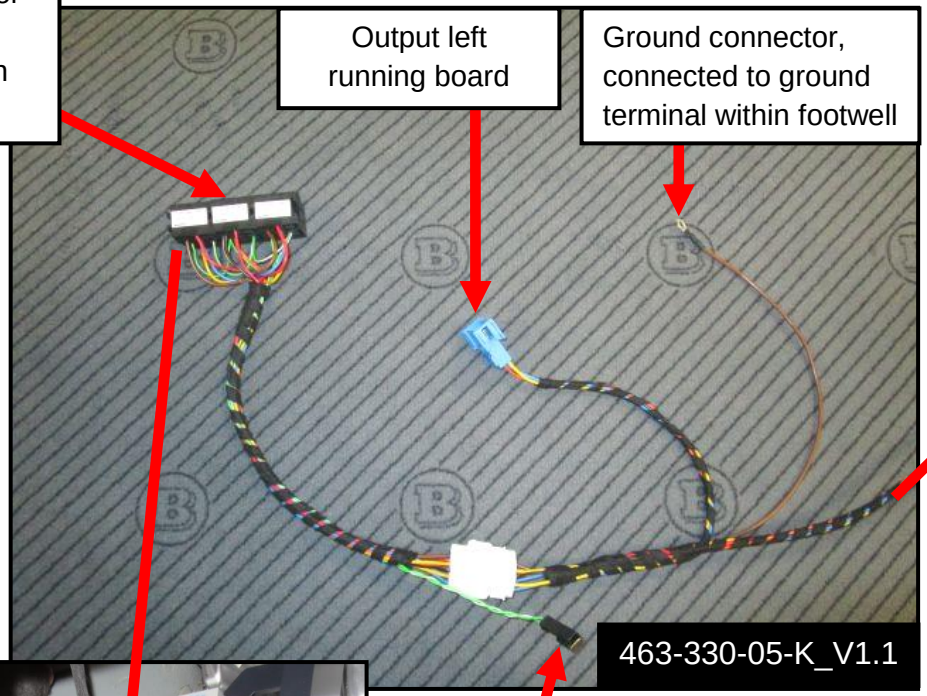
463-330-92

Sockets for control units, to be assembled within driver's footwell

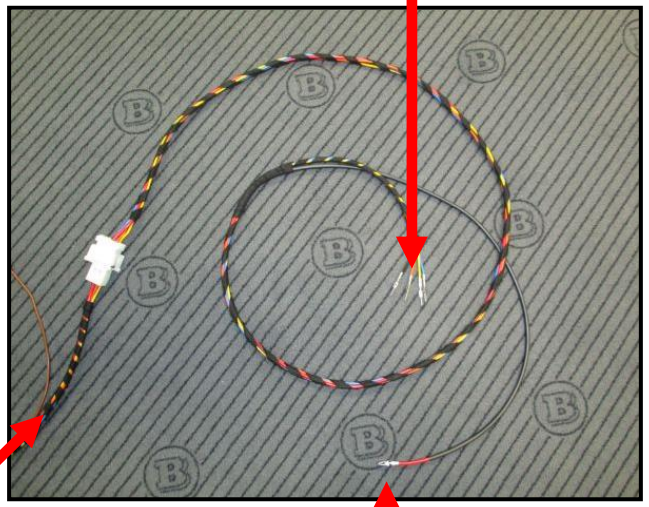
Output left running board

Ground connector, connected to ground terminal within footwell

Output right running board



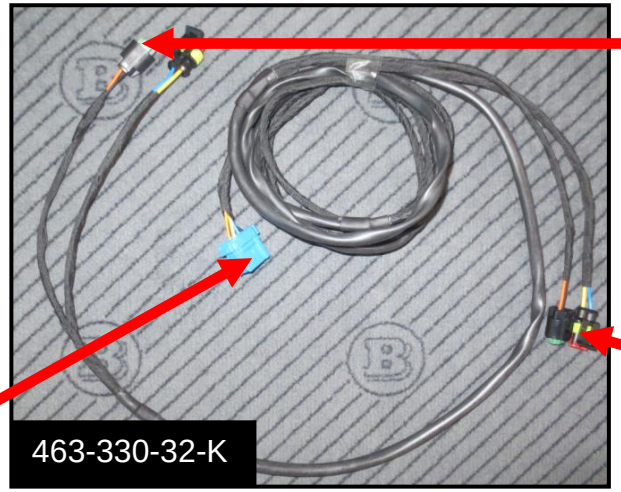
463-330-05-K_V1.1



Power supply connector, to right fuse terminal, slot F207 – 25A



To CAN-distributor behind glovebox, connect by using extension wire



463-330-32-K

Connectors for LED lamps/ running board motors

Connectors for extension wires/ running board motors/ LED lamps

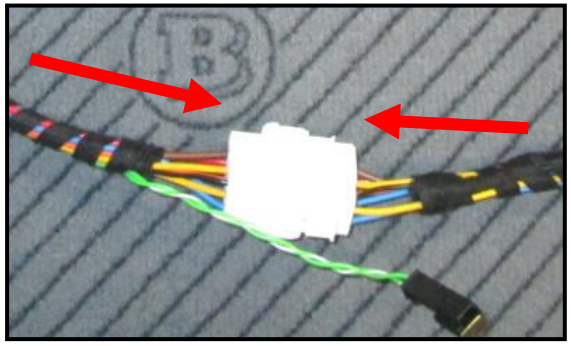
To main wiring harness

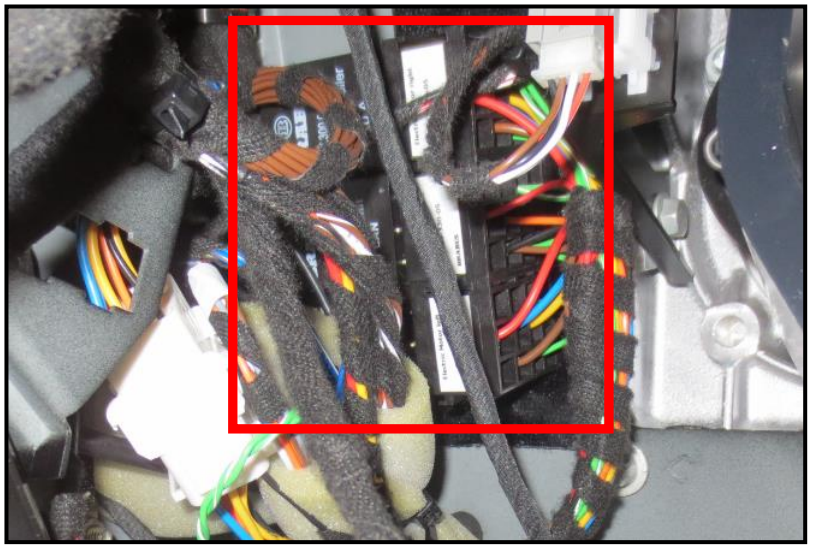
4

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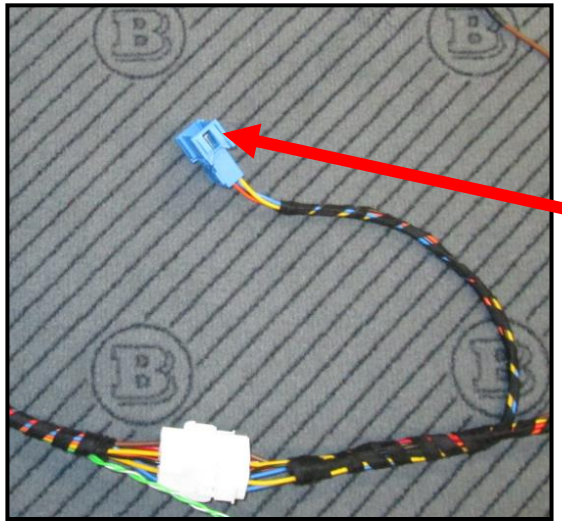
Assembly:

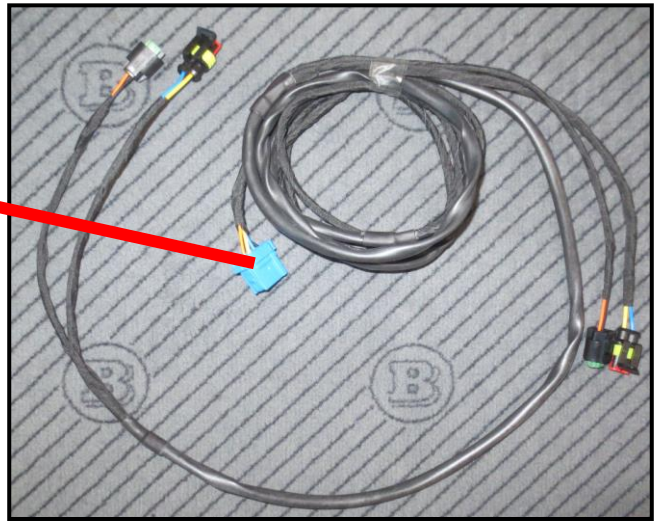
- Fixate the control unit sockets to area within driver footwell shown by using velcro tape supplied. Connect to main wiring harness.





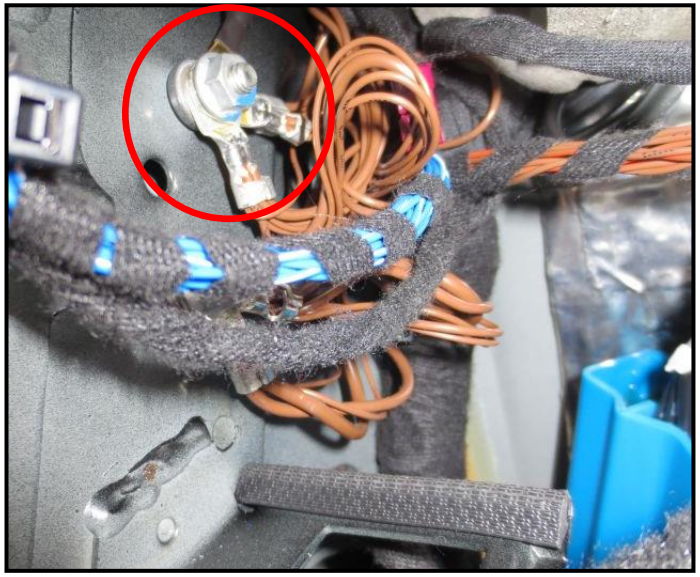
- Connect one of the running board wiring harnesses to the main wiring harness.





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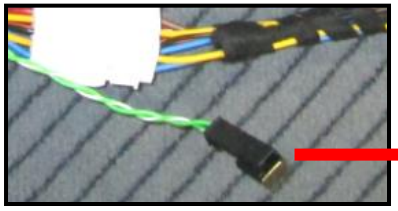
- Bolt the ground ring lug of the wiring harness to the ground terminal within the driver footwell.



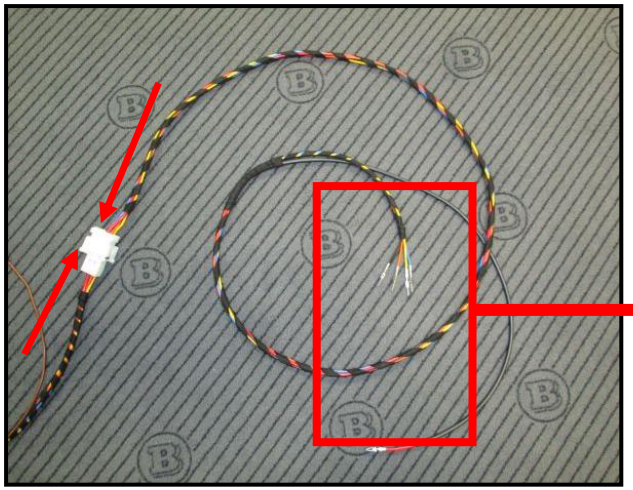
6

- Connect the passenger side wiring harness to the main wiring harness and route it to the passenger side.

- Connect the CAN extension wire supplied to the main wiring harness and also route it to the passenger side.



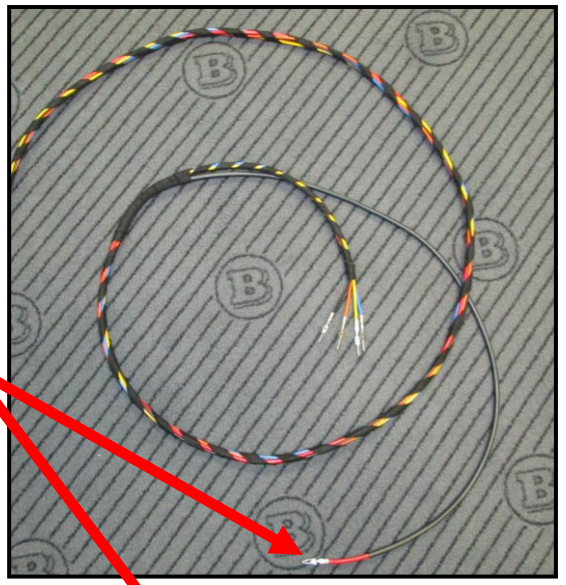
Connect extension wire and route to passenger side

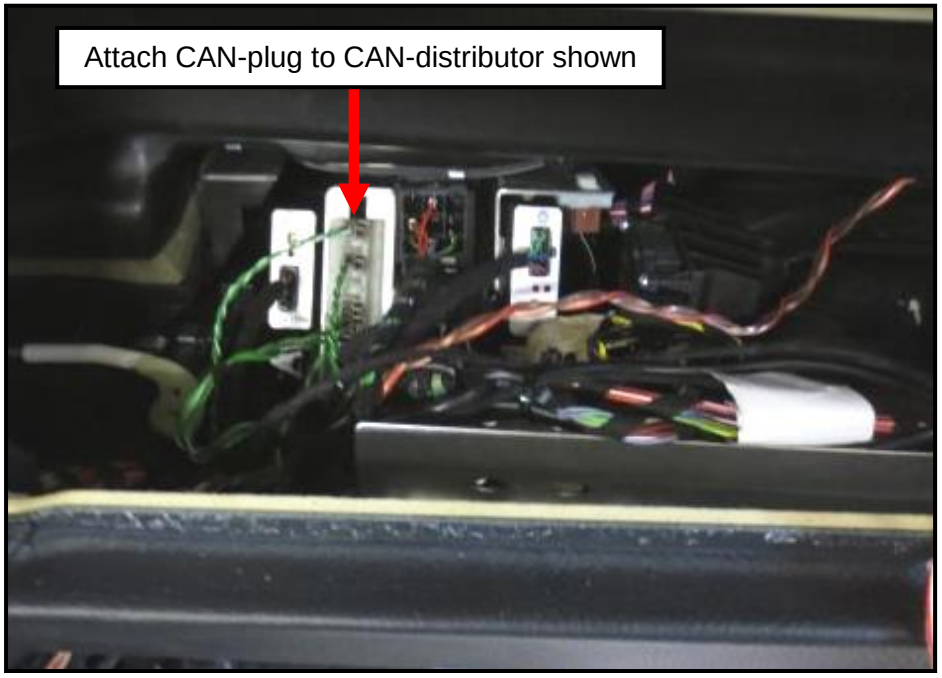


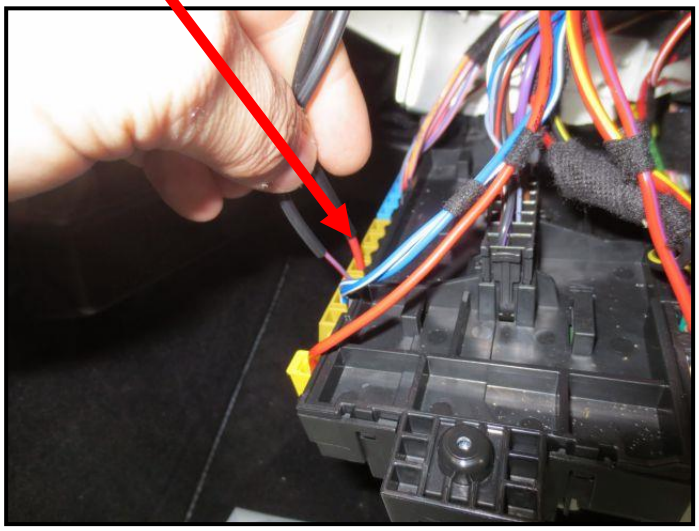
Route to passenger side

- Attach the red wire of the Brabus wiring harness to port **F207 (25 AMPS)** of the fuse board.

- Attach the brown CAN-plug of the Brabus wiring harness to a free port of the CAN-distributor shown (behind glovebox).







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Routing of passenger side wiring harness to passenger side running board:

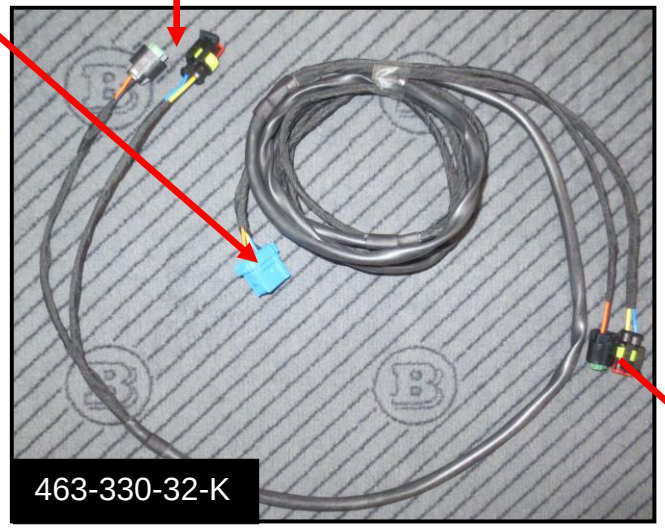
To interior wiring harness

Output for front electric motor/ front LED illumination

Output for rear electric motor/ rear LED illumination

Output for middle LED illumination







Output for extension wiring harness

Attention:

The wires for the electric motors are to be attached to the 2-pole plug.

Red wire → Slot 1

Black wire → Slot 2

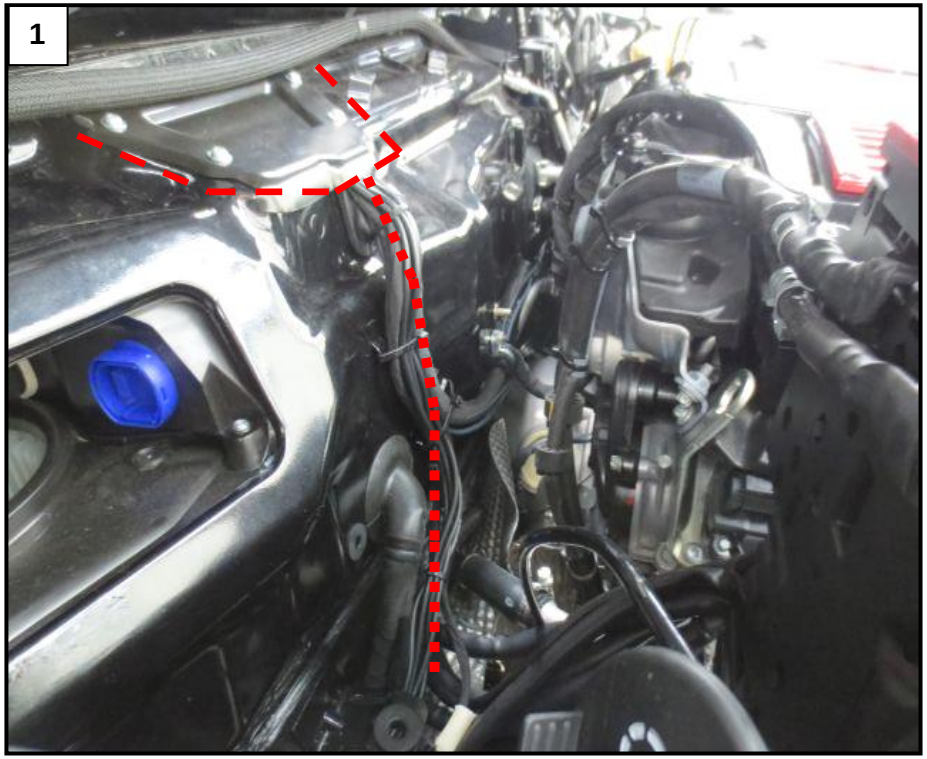


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- Attach the wires of the wiring harness colour equal to the wires of the running board harness to the plug supplied.

- Route the wiring harness of the passenger side running board to the passenger side interior harness.

- Remove the cover shown within the engine bay (**1**) in order to be able to route the wiring harness into the engine bay. Carefully cut the rubber grommet. Do not yet re-attach the cover!

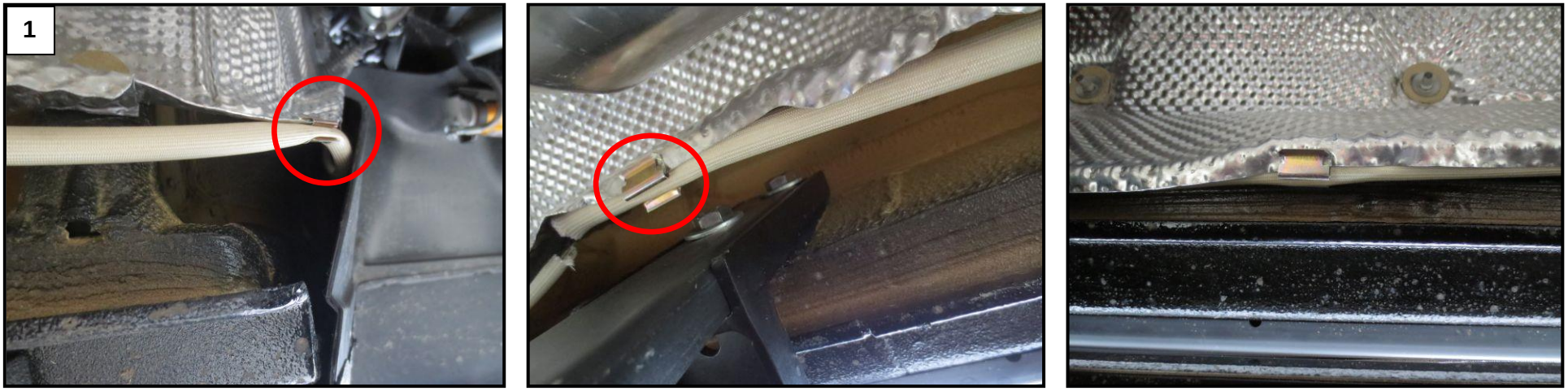




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- Route the wiring harness to the right running board (between wheelarch liner and front fender, **1**).

- Fixate the wiring harness to the heat shield using brackets supplied.



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Routing of driver's side wiring harness to driver's side running board:

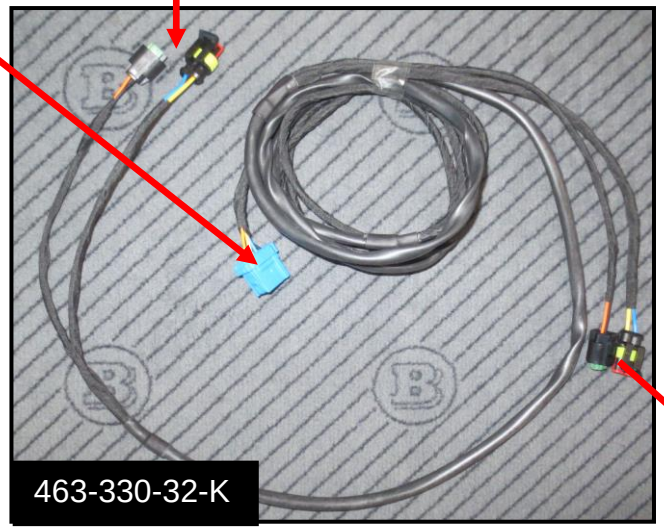
To interior wiring harness

Output for front electric motor/ front LED illumination

Output for rear electric motor/ rear LED illumination

Output for middle LED illumination





463-330-32-K



463-330-40-K

Output for extension wiring harness

Attention:

The wires for the electric motors are to be attached to the 2-pole plug.

Red wire → Slot 1

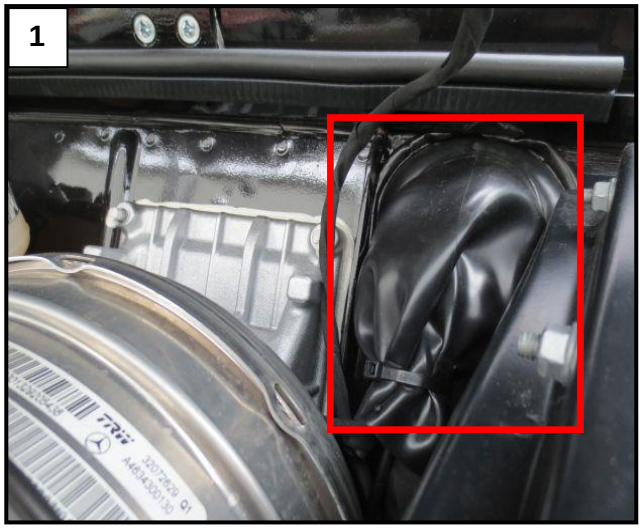
Black wire → Slot 2

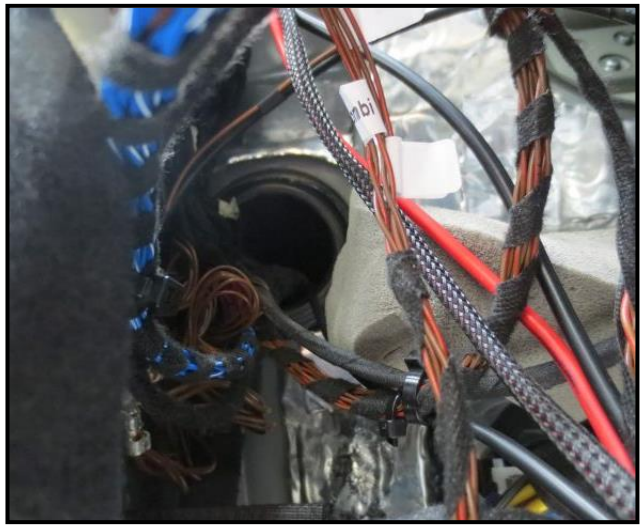


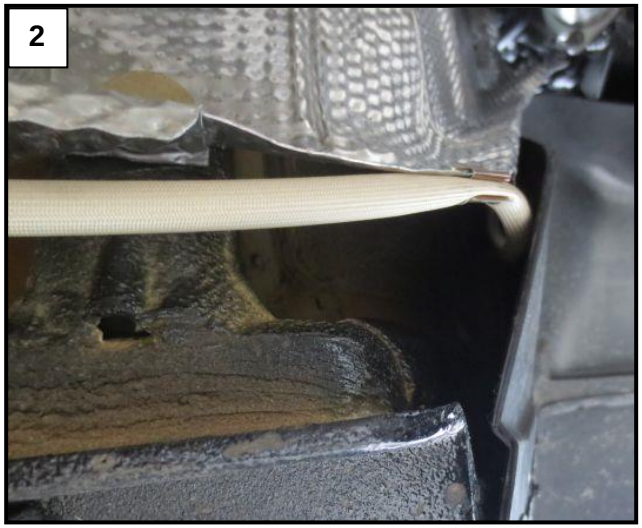
Official technology-partners PIRELLI BILSTEIN Continental MOTUL YOKOHAMA ADVAN Member of VDM

- Route the wiring harness on the driver side out into the engine bay (through rubber grommet, **1**).

Route the wiring harness to the driver side running board (between wheelarch-liner and fender, **2**).







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- Fixate the wiring harness to the heat shield using clamps supplied according to images. Make sure there is a sufficient gap between the wiring harnesses and the exhaust system.



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Mechanical assembly:

Parts list:

12x	Hexagon bolt M6
24x	Hexagon bolt M8
6x	Carriage bolt M8
12x	Tapping screw
12x	Hexagon bolt
12x	Washer M6
24x	Washer M8
12x	Washer M10

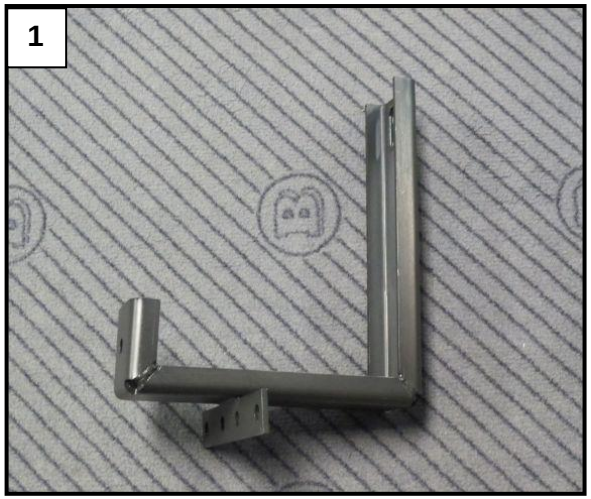
Attention:

In order to reach a proper and smooth function of the running boards do not yet finally tighten the bolt connections until the running boards are tension-free aligned!

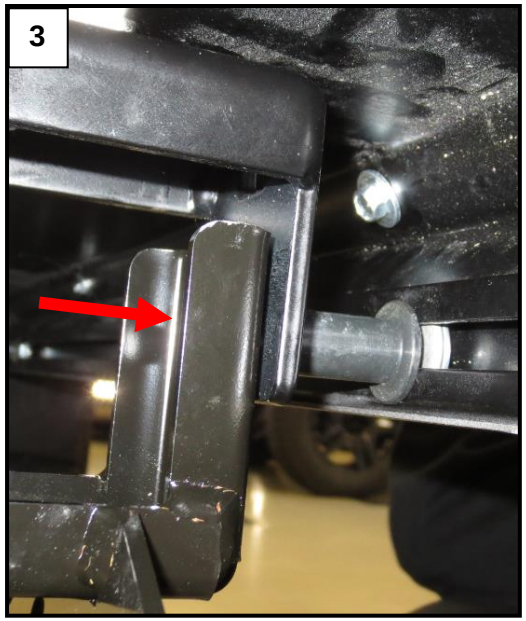
Official technology-partners PIRELLI BILSTEIN Continental MOTUL YOKOHAMA ADVAN Member of VDAT

- Slightly bend the heat shields at the vehicle underbody inside to gain access to the bolts.

- Bolt the running board brackets (**1**, 3 per side) to the assembly areas (**2**) of the standard running board brackets at the lower vehicle body according to images, using 2 M10x45mm bolts supplied and each a washer M10.







- Connect the U brackets to the lower assembly positions of the standard running boards (**3**).

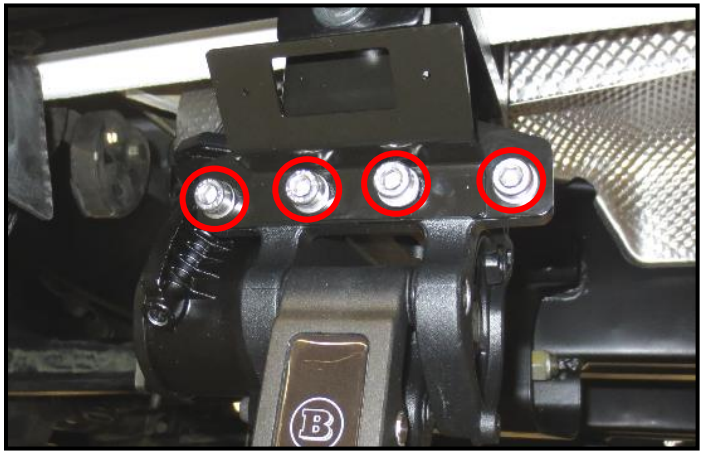
Official technology-partners PIRELLI BILSTEIN Continental MOTUL YOKOHAMA ADVAN Member of VDAT

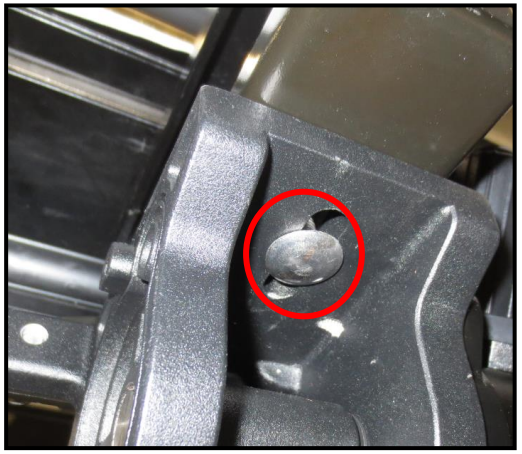
- Bolt the LED lamps to the brackets supplied using tapping screws supplied.





- Bolt the joints with the electric motors and the LED brackets shown to the brackets of the electric running boards using hexagon bolts M6 and washers M6 supplied. The joints with the electric motors are assembled at the front and rear positions, the joints without the motors at the middle position. Pre-tighten the bolts in order to be able to align the joints and fixate the joints at the rear areas using carriage bolts M8 and nuts/ washers M8 supplied. Check the joints for proper alignment and tighten the bolt connections.







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- Connect the extension wiring looms (463-330-40-K) to the running board wiring looms (463-330-32-K), attach the plugs for the running board illumination to the LED lamps and the motor connectors to the electric motors.

- Route the wiring looms along the brackets for the running board joints and fixate these using cable ties supplied, according to images below. Make sure the wires are properly routed and cannot be kinked or squeezed while the running boards are operating.

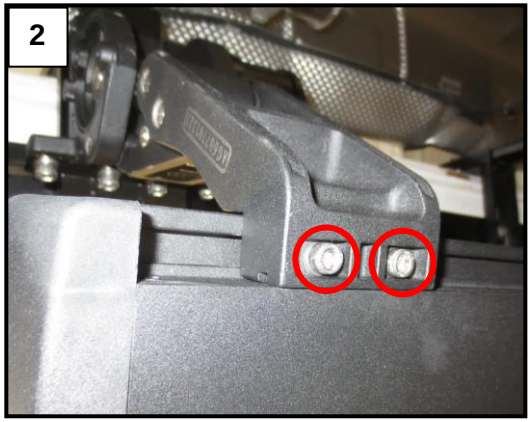




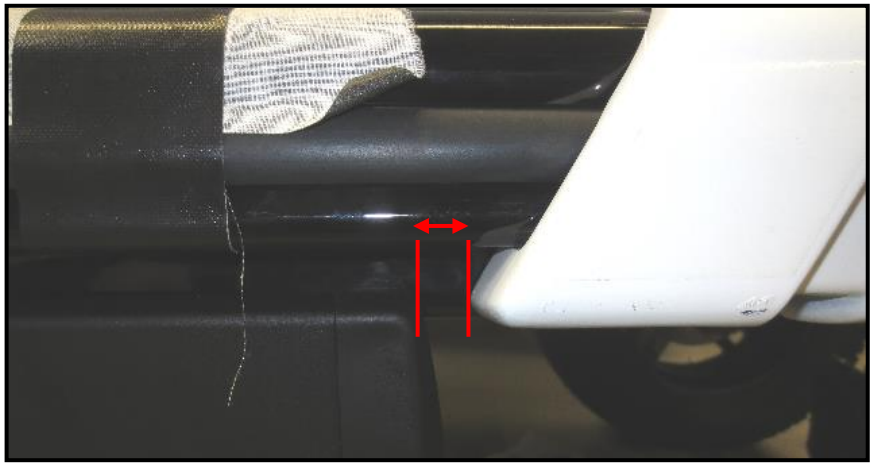
Official technology-partners PIRELLI BILSTEIN Continental MOTUL YOKOHAMA ADVAN Member of VDA

- Make sure there are 3 sliding blocks within each the running boards (**1**). Slide the blocks to the joint positions and bolt the running boards to the joints using hexagon bolts M6 and washers supplied (**2**). Pre-tighten the bolts to be able to align the running boards.





- Align the running boards until the gap between the running boards and the front and rear standard running board caps are equal. Tighten the bolts.



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- Open/ close the doors and check the function of the running boards. If these are operating contrary, exchange the wires of the running board harness main motor plug against each other on the concerned side. Make sure the electric running boards are operating smooth and even.
- Do not yet re-attach the glovebox and the lower dashboard covers.

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Assembly of valve controlled sports exhaust:

Included in delivery of valve controlled sports exhaust for G500 4x4²:

1x	Sports exhaust base kit	463-678-63-TB-4X4-A
1x	Electronic control unit (no relay!)	463-600-64
1x	Wiring harness	463-600-95
1x	Switch confirmation beeper	
1x	Mechanical parts kit	463-600-98
	- **consisting of:**	
1x	Select valve	275 153 01 59
1x	Filter cap	117 078 09 81
1x	Select valve bracket	271 141 13 40
2.6m	Plastic low pressure pipe	000 158 14 35
2x	T-hose connector 4 mm	WU 50025029
14x	Hose clamp	WU 541001085
1.5m	Low pressure hose 3.5 mm	BE 298190

Optionally available:

Exhaust valve control button	176-670-82

Replaces 12V-socket within center console

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Preparation:

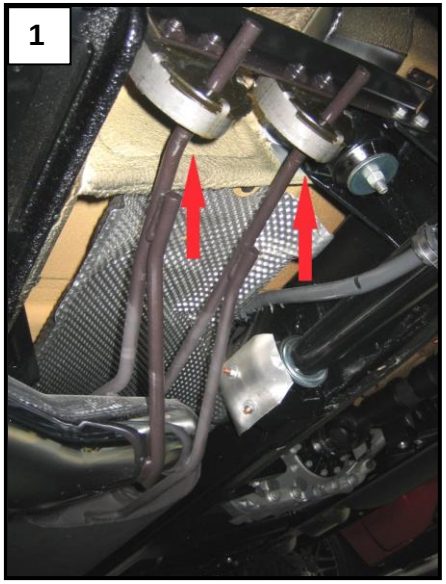
- Lift the car on a suitable platform at the Mercedes-Benz prescribed lifting positions with due regard to valid safety guidelines.

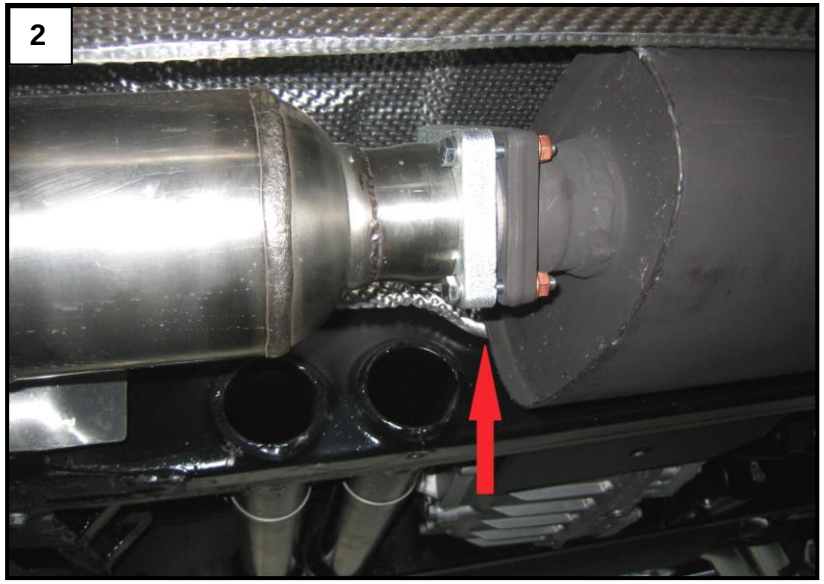
Montage der BRABUS Endschalldämpfer:

- Attach the exhaust carriers supplied for the left and right side (**1**).

- Apply a few silicone fluid to the exhaust rubber supports in order to be easier able to attach the rear silencers to the brackets.

- Lead the struts of the Brabus rear silencers into the rubber supports and fixate them (**2**).





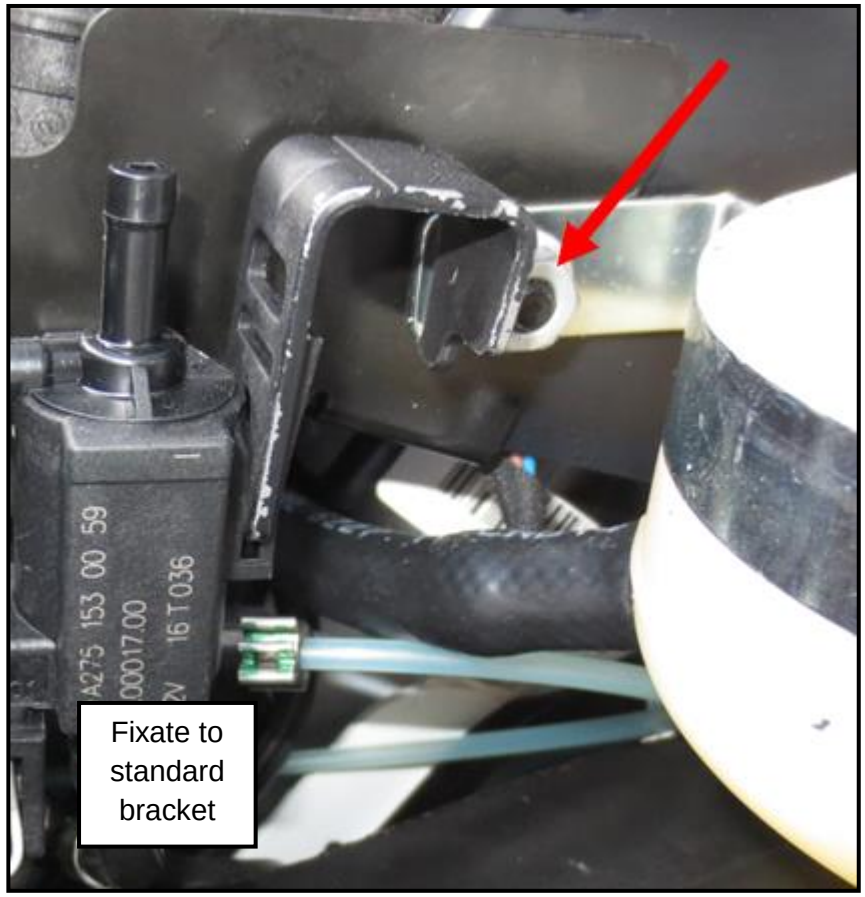
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Assembly of select valve:

- Fixate the select valve to the assembly position of the brake fluid reservoir using bracket supplied, attach the filter cap supplied to the valve.

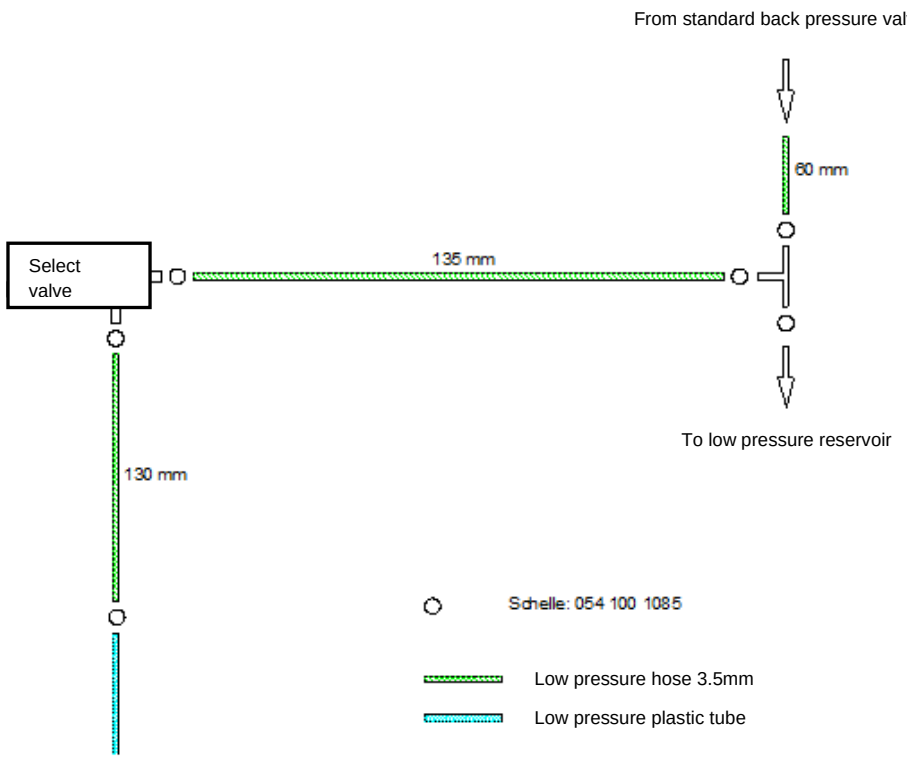
- Cut three pieces of low pressure hose off the low pressure hose supplied in following lengths:

1x 60mm
1x 130mm
1x 135mm



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Low pressure piping at select valve:



Low pressure legths required:

1x	60 mm
1x	135 mm
1x	130 mm

- Connect each low pressure hose according to illustration and secure each connection using a clamp to avoid leaks within the low pressure circuit.

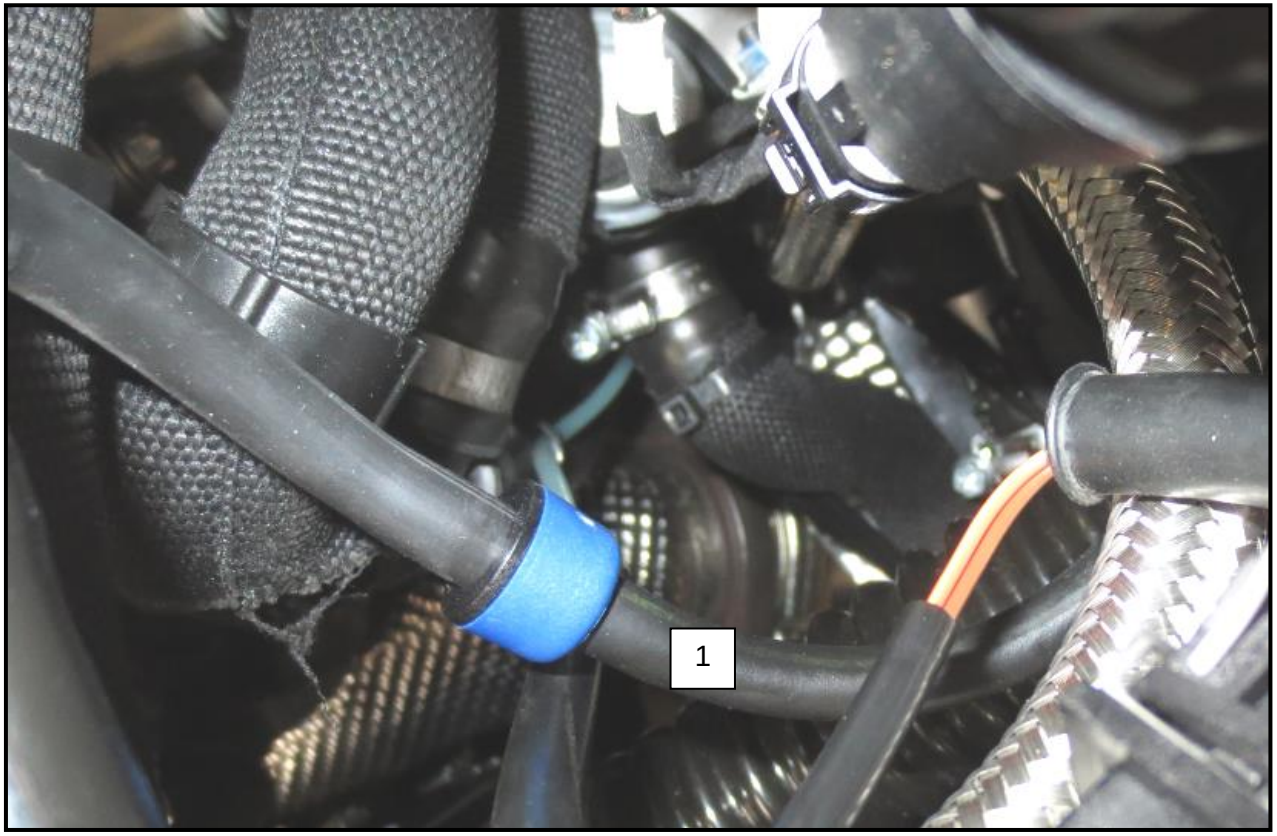
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- Connect a 135mm long piece of low pressure hose to the plug sided connector of the select valve and connect the other end to one connector of the T-distributors supplied (**2**).

- Take the standard rubber hose off from the standard back pressure (**1**) valve shown.

- Attach the 60mm long piece of low pressure rubber hose to the back pressure valve (**1**).

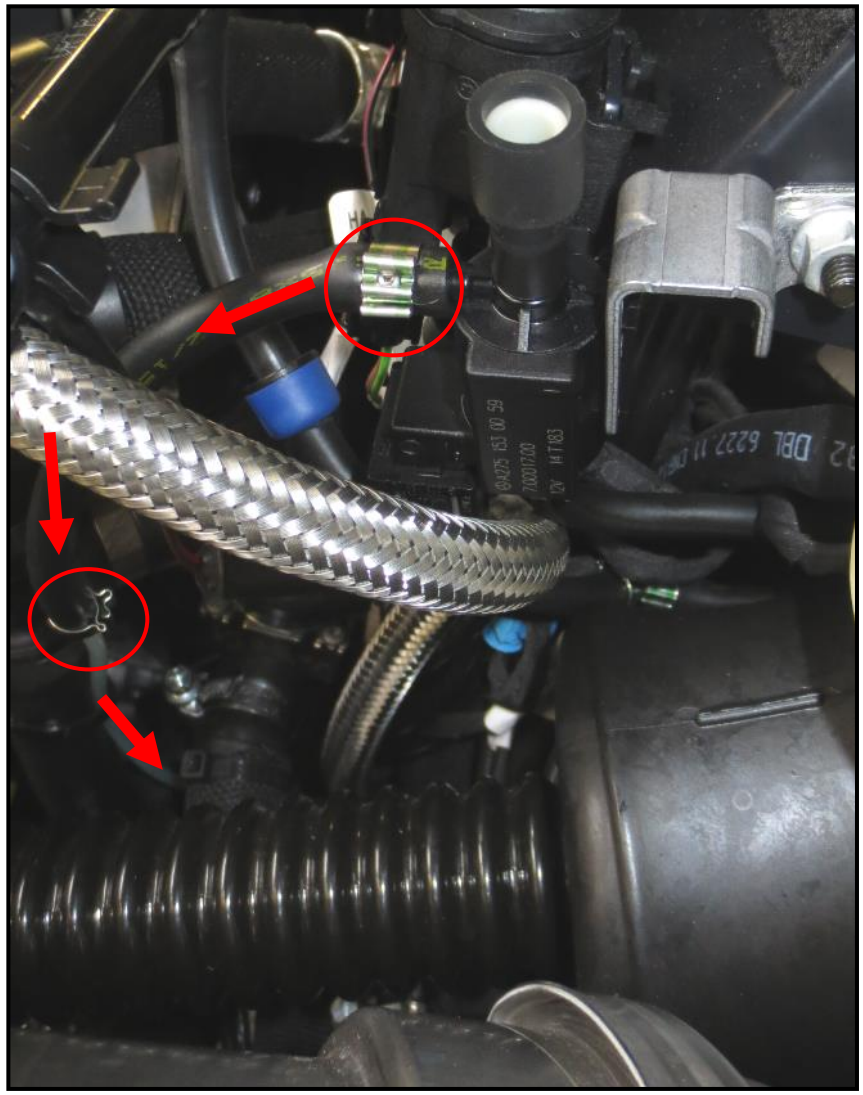
- Attach the other end of the 60mm long piece of hose to one connector of the T-distributor (**3**), connect the standard low pressure hose (which has been connected to the back pressure valve before) to the other end of the T-distributor (**4**).





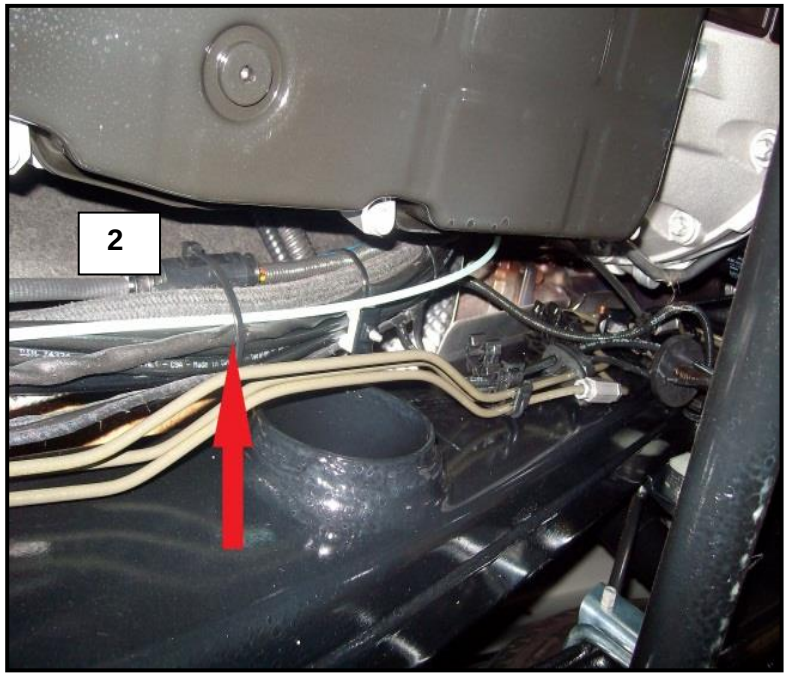
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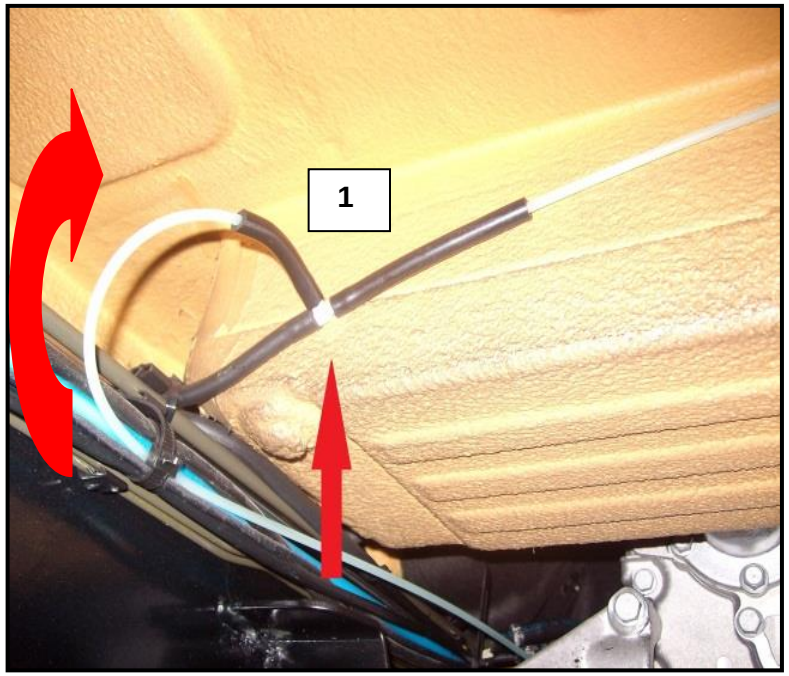
- Extend the 130mm long piece of low pressure hose by using a 2250mm long piece of low pressure plastic pipe and route it along the vehicle bulkhead to the vehicle underbody in direction of the vehicle rear end. Extend the plastic pipe by using a 60mm long piece of low pressure hose.



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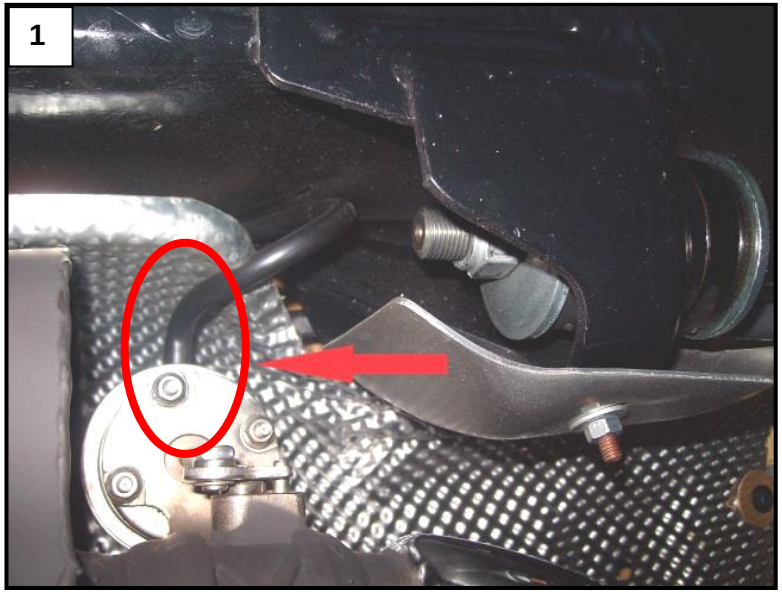
- Attach the other end of the 60mm long low pressure hose to one of the T-distributors supplied (**1**).
- Attach a 330mm long piece of low pressure hose (for the left silencer) and a 400mm long piece (for the right side) of both the other ends of the T-distributor.
- Route the low pressure hoses along the vehicle underbody to the left and right silencer, fixate them using cable ties (at standard wirings, **2**).

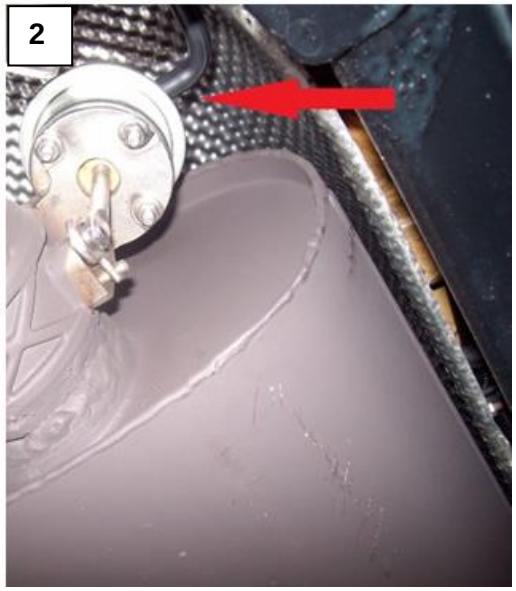




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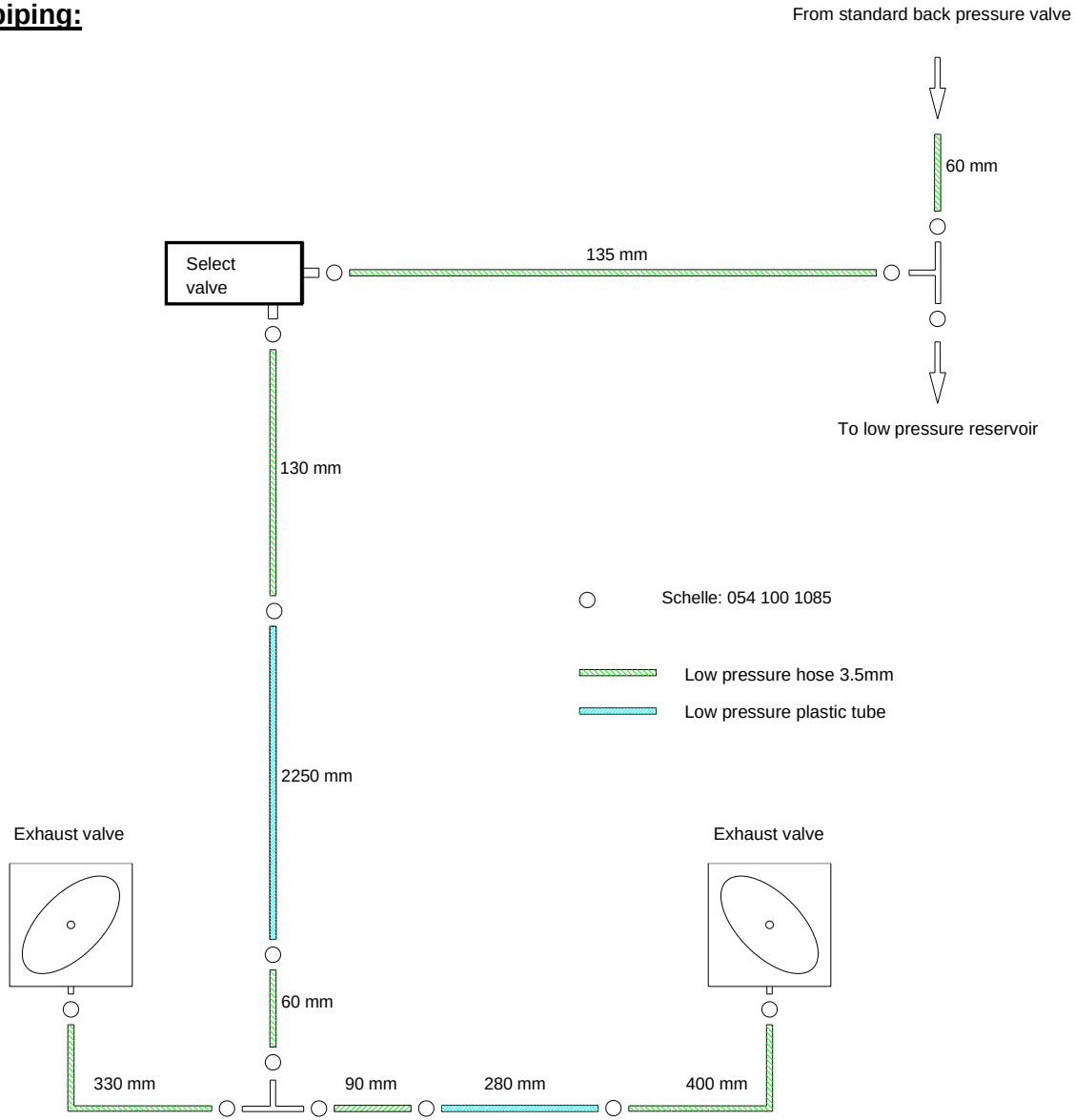
- Attach the low pressure hoses to the exhaust valves and secure them using clamps (**1**, **2**).





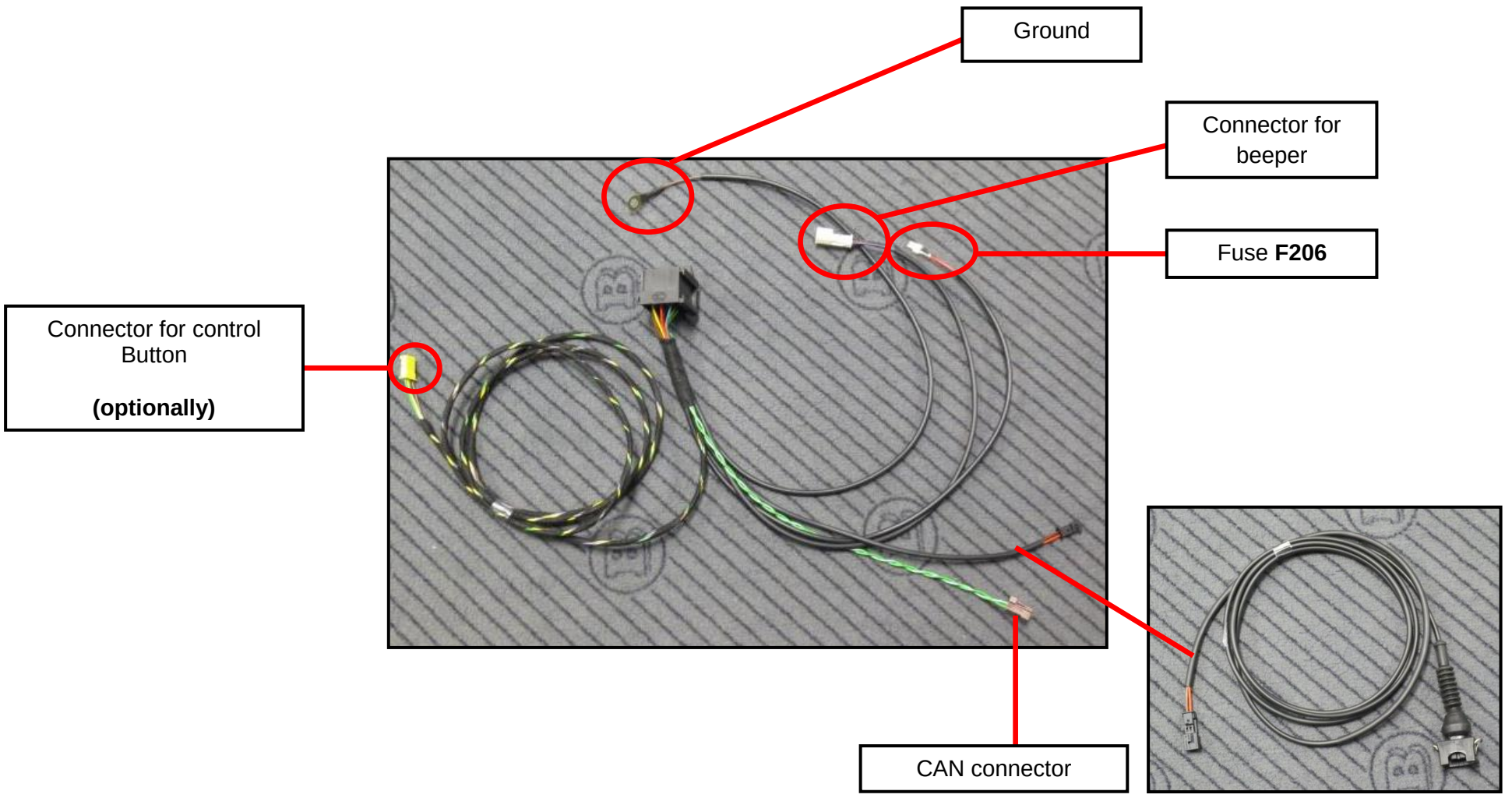
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Overview of low pressure piping:



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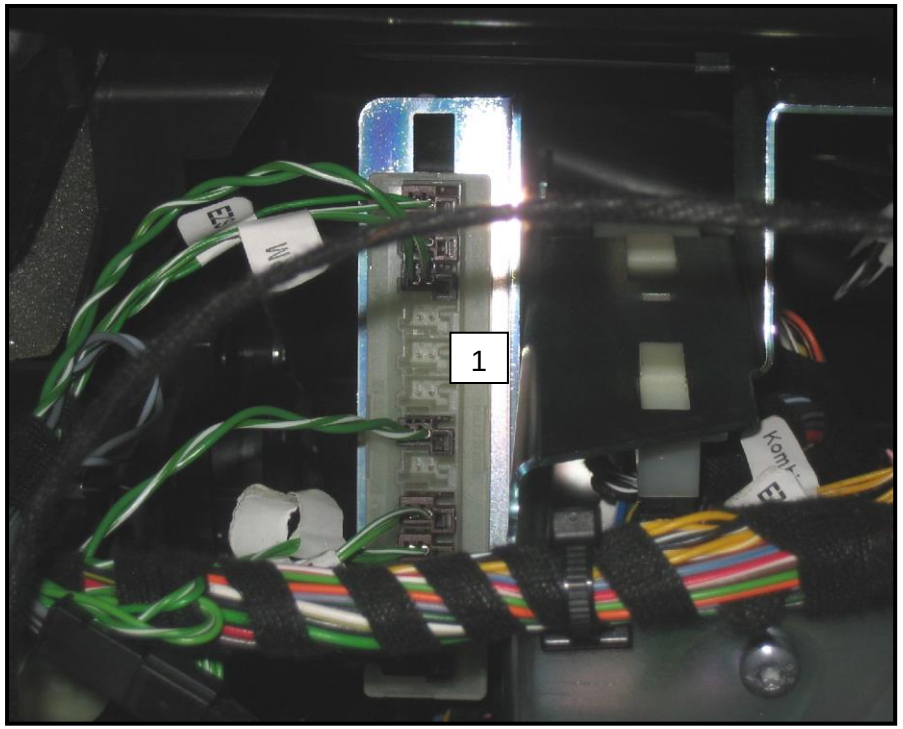
Electrical connections:



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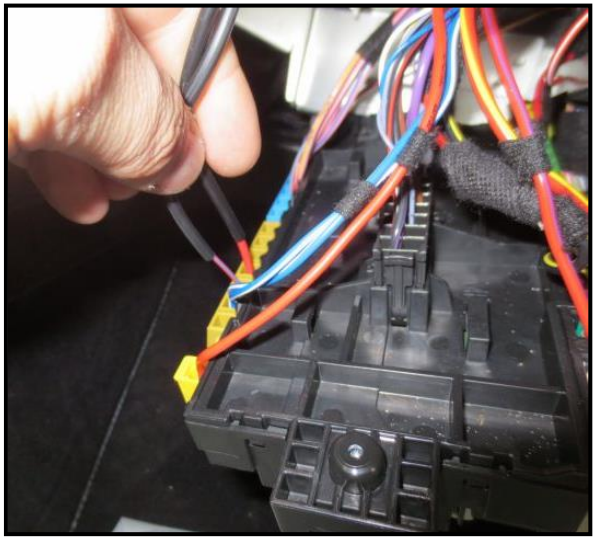
- Route the 2-pole, brown MQS-plug to the CAN-distributor, which is located behind the glove box (**1**) Attach the plug to a free port of the CAN distributor.



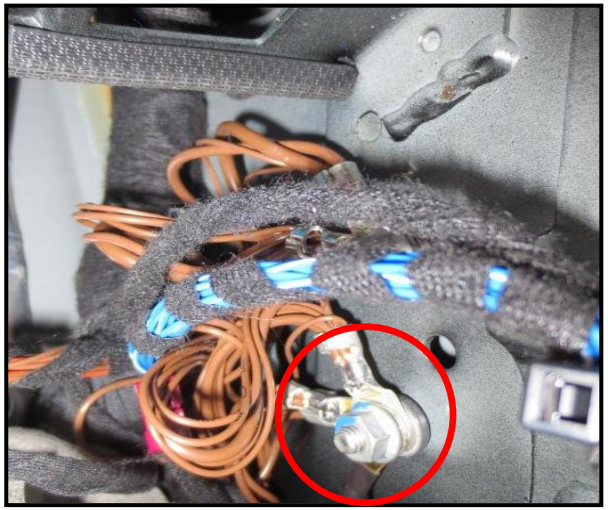


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- Attach the red wire (power supply) to port **F206** of the fuse board.



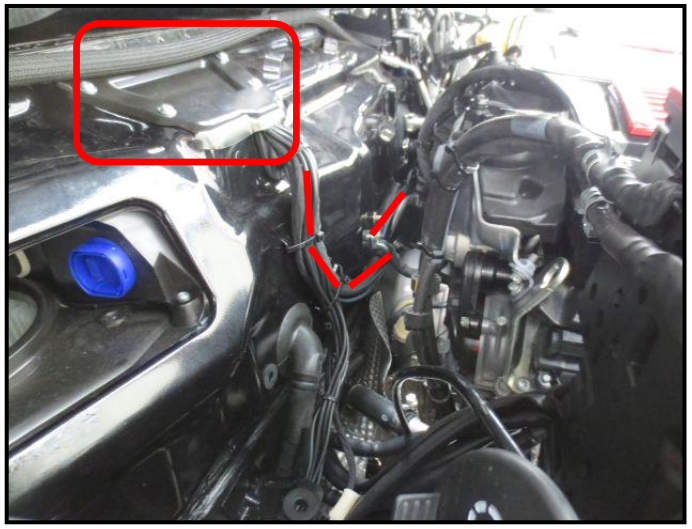
- Bolt the ground ring lug of the Brabus wiring harness to the ground terminal within the passenger footwell.



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- Connect the 2-pole, black plug to the 2-pole socket of the control valve harness. Route the harness to the control valve within the engine bay (through rubber grommet on passenger side, fig. beside). Fixate the wiring harness using cable ties. Attach the plug to the control valve.

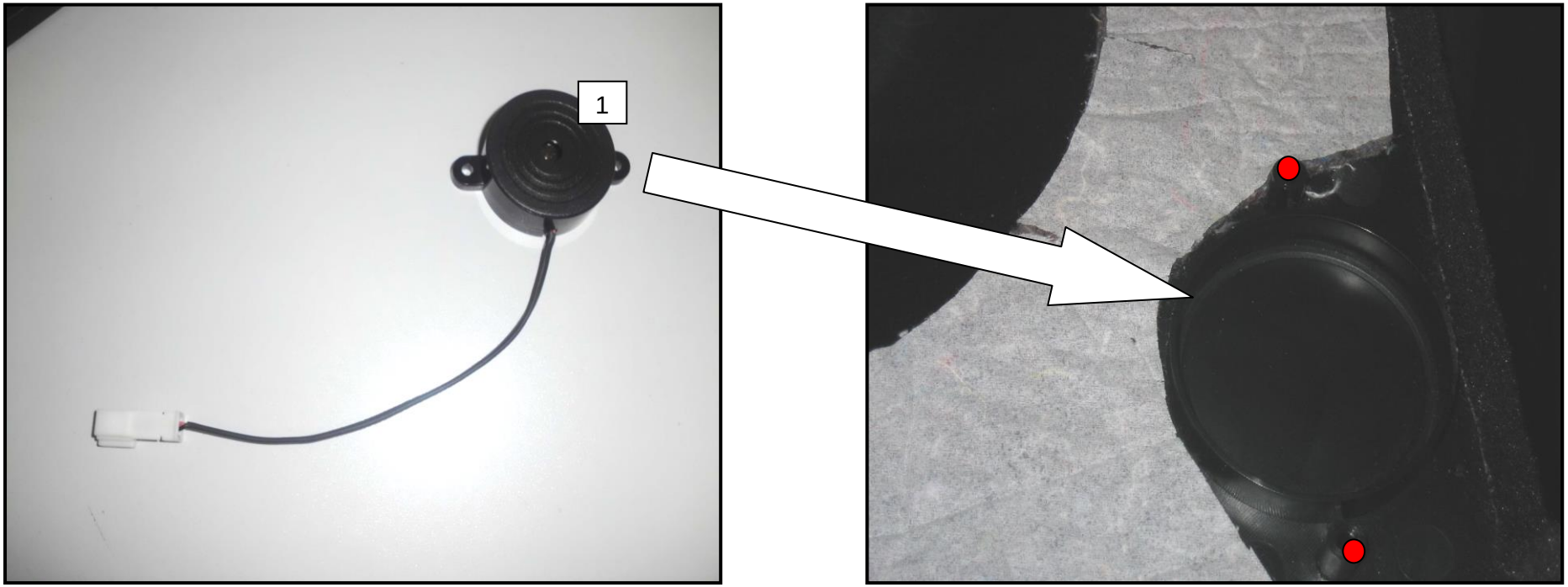
- Re-attach the cover.





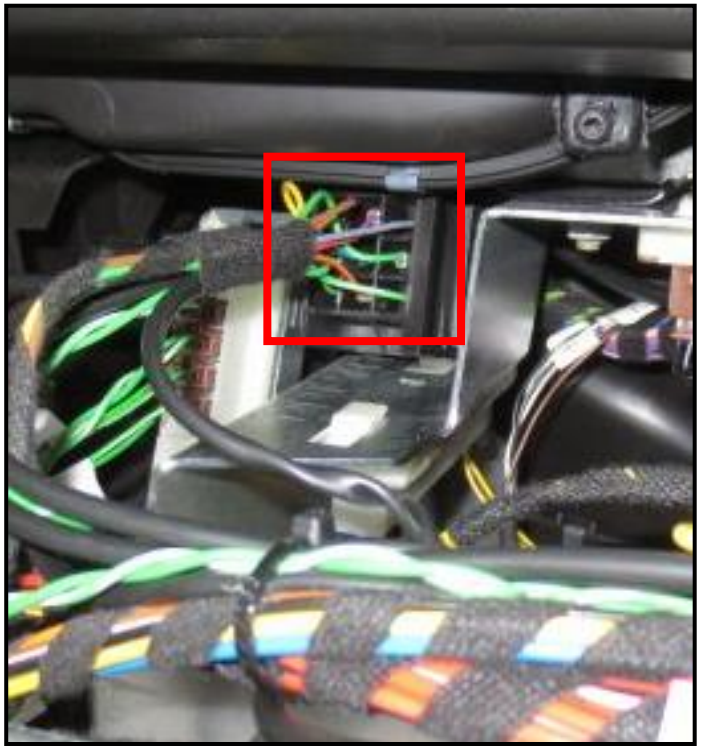
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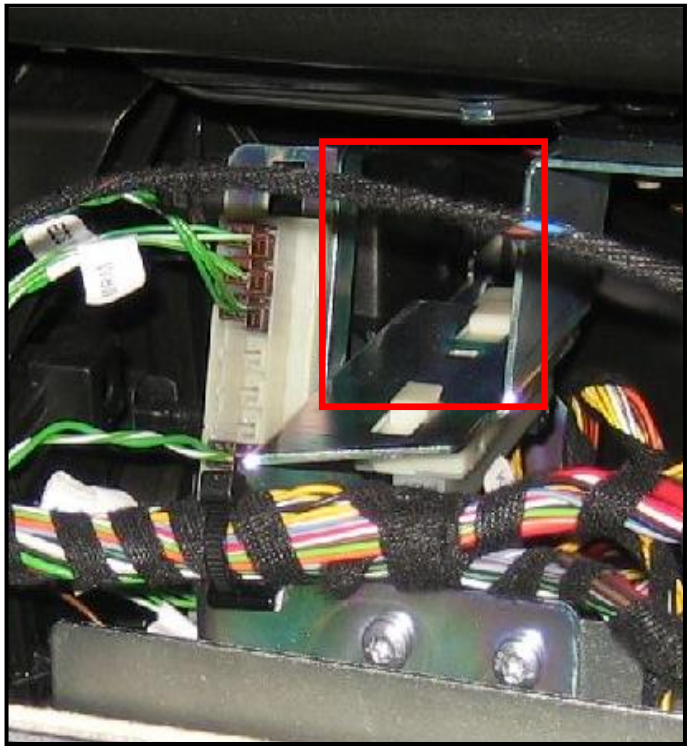
- Attach the beeper to the marked position (**1**) of the right lower dashboard cover using tapping screws. Connect the beeper to the Brabus harness.



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- Attach the control unit to the metal frame shown below using adhesive tape supplied. Connect the main plug of the Brabus harness to the control unit.

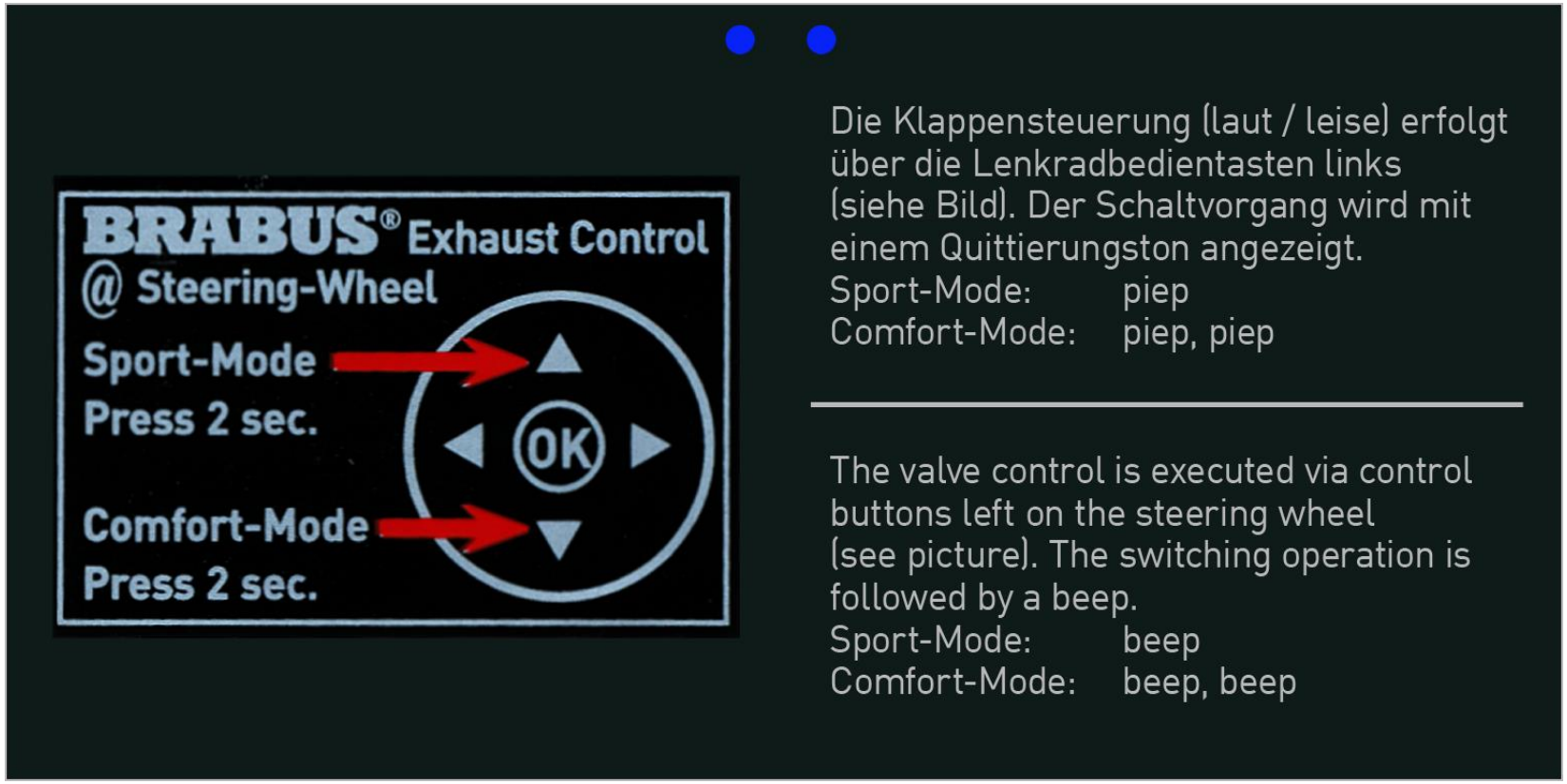




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Function description:

The exhaust flaps are operated by the steering wheel buttons (up & down) or the control button (optionally).
Please regard to instructions below which are also printed included in delivery.
Hang the printed version of the instructions to the direction indicator lever.



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The control button can be fitted optionally (within center console) and replaces the 12V socket..

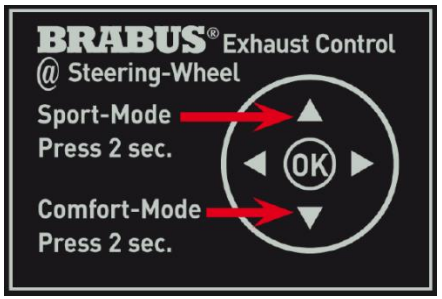


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Please hand this information over to the customer!

Additional function:

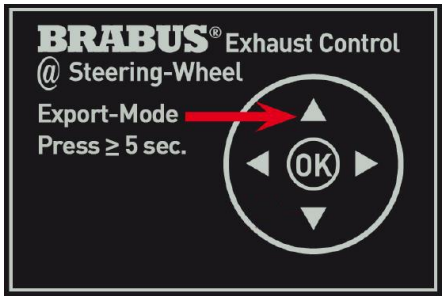
In addition to the known functions of the valve controlled exhaust system (switch between sport and comfort-mode) the exhaust system can be switched from **EC-mode** to **Expert-mode**.
Push and hold the button for more than five seconds in order to avoid an unintentional change between the modes.



Activation of Export-mode:

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

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

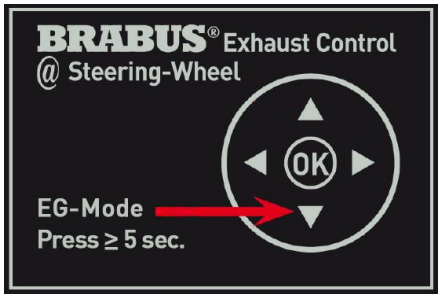


Attention:
This is exclusively an export mode.
When the system standardly is switched to Sports-mode the EC type approval no longer is valid and, depending of the country the car is registrated to, there is no insurance protection.

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).



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