

463-678-12
Flap exhaust system W 463

BRABUS®

Fitting instructions

English

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



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 before you start.

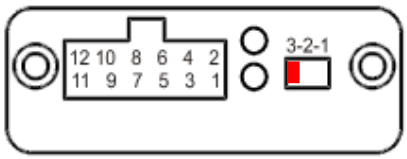
Check the content of the supplied parts as detailed next page.

Hint:

The connection of the select valve depends on the version of the delivered flap exhaust system.

Hint!

Please make sure the switch of the control ECU finds in position 3!



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

Included in delivery of flap exhaust system for W 463:

1x	Exhaust system	463-678-12
	consisting of:	
2x	rear silencers l/r	463-678-12A
1x	control unit	463-600-63
1x	wire set	463-600-97
1x	switch	197-600-99
1x	switch housing	463-600-99
1x	parts set mechanic	463-600-98
	consisting of:	
1x	select valve	275 153 01 59
1x	cleaner	117 078 09 81
1x	select valve clip	271 141 13 40
2,6m	low pressure pipe (plastic)	000 158 14 35
2x	t-hose-connector 4 mm	WU 50025029
14x	clamp	WU 541001085
1,5m	low pressure hose (rubber) 3,5 mm	BE 298190

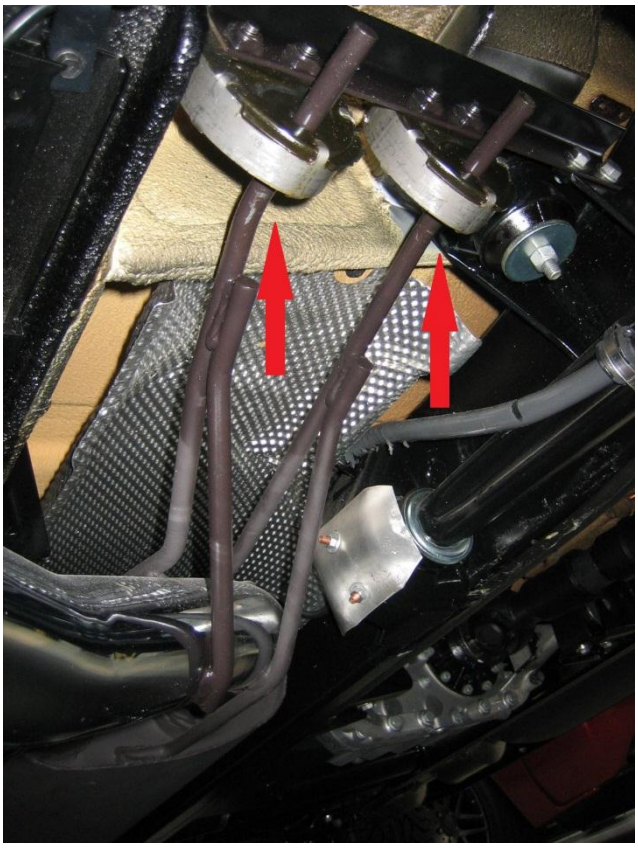
Official technology-partners PIRELLI BILSTEIN Continental ARAL YOKOHAMA ADVAN Member of VDAT

Preparation:

- Remove the bottom covers of the left and right dashboard as well as the cover panels in the centre console (please use WIS workshop manuals).
- Lift the car on a suitable platform a the Mercedes-Benz prescribed lifting positions with due regard to valid safety guidelines.
- Remove the original rear silencers and release the front clamps of the rear silencers.

Installation for BRABUS rear silencers:

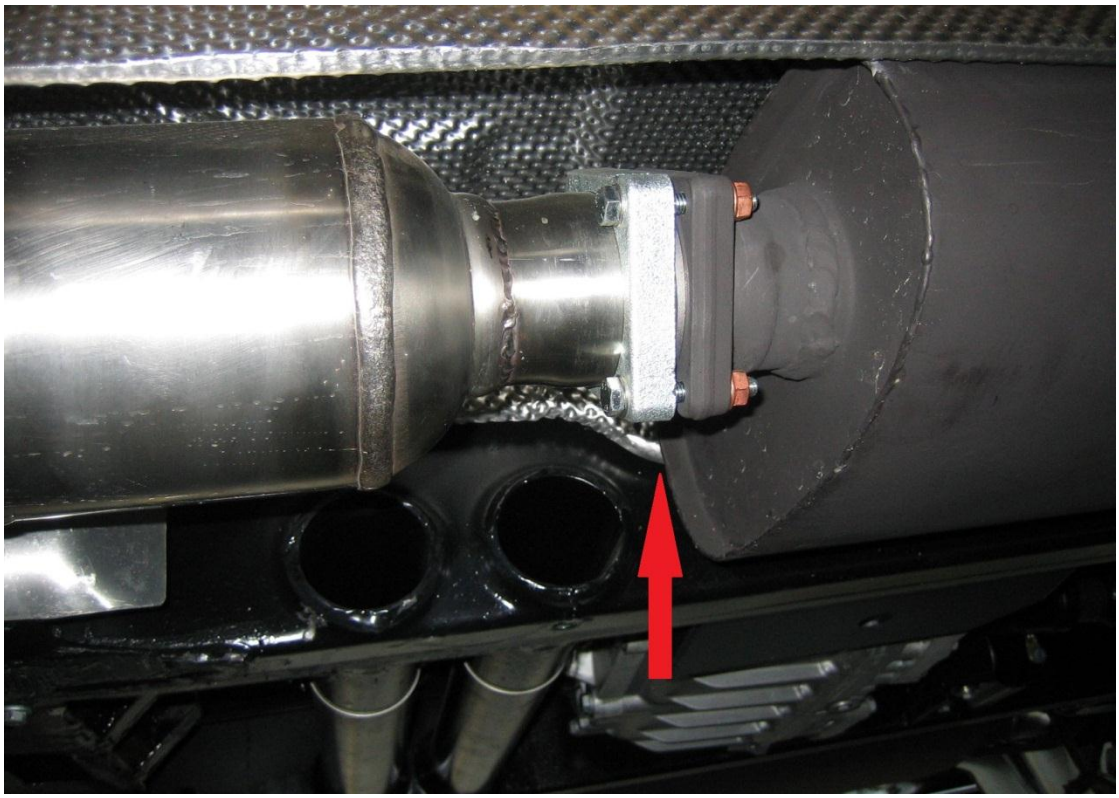
- Bolt the delivered BRABUS exhaust brackets for the left and right silencer to the car's underbody (see ill. 1)



(ill. 1)

- Spray the rubbers of the exhaust holders with silicone fluid.
- Lead the strives of the rear silencers into the rubbers of the exhaust holders (see ill. 2).

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



(ill. 2)

Fitting select valve:

- Attach the select valve to the select valve bracket (see ill. 4)
- Reduce the delivered low pressure hose (rubber) to that lengths which are shown in ill. 6 and connect them to the select valve connectors (see ill. 5)



Clip (partnr. 271 141 13 40)



(ill. 4)



(ill.5)

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

Attention!

The connection of the select valve depends on the version of the delivered flap exhaust system.

Check, if the silencers supplied are equipped with flaps which are open (A) or closed (B) from the factory.

Version A:

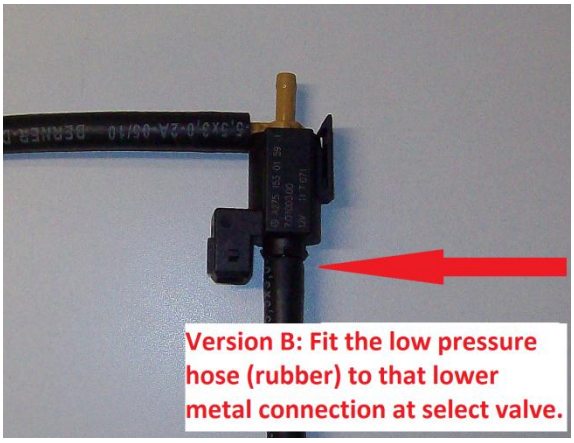
If the exhaust flaps are open, fix the low pressure hose (rubber) to the orange connection at the select valve (ill. A)**.**

Version B:

If the exhaust flaps are close, fix the low pressure hose (rubber) to the lower metal connection at the select valve (ill. B).



(ill. A)



(ill. B)

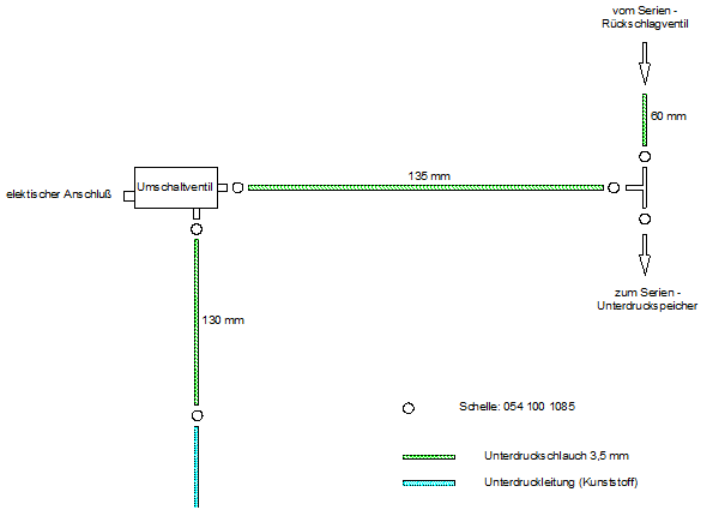
Move the delivered filter to the not used connection of the select valve (see ill. C).



(ill. C)

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

Schematic description of low pressure circuit with length values specifications:



Required low pressure hose (rubber) lengths:

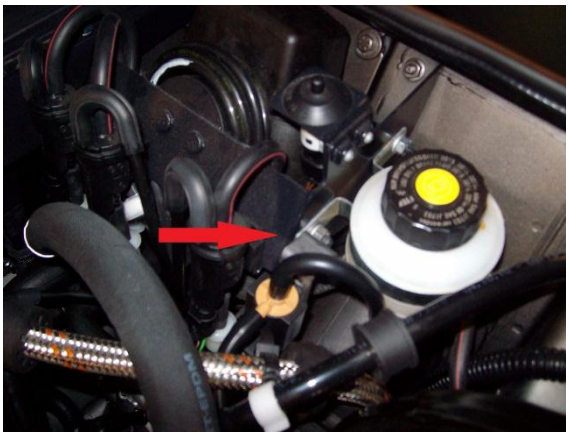
1x	60 mm
1x	135 mm
1x	130 mm

(ill. 6)

- Fit all low pressure hoses/pipes like in ill. 6. Secure all hose/pipe connections using clamps!
- Assemble the select valve with the select valve clip to the brake-fluid reservoir (see ill. 7/8).



(ill. 7)

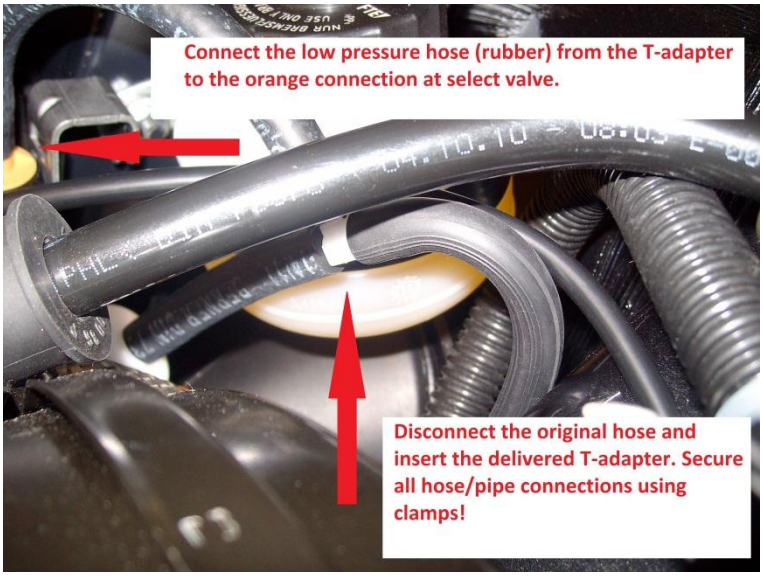


(ill. 8)

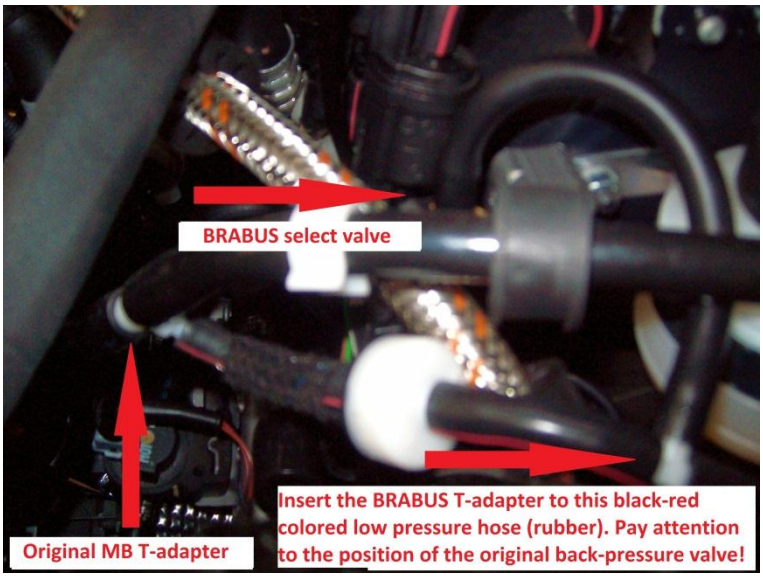
- Connect the two low pressure hoses (rubber) at select valve as shown in ill. 9/10.

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

Hose system at select valve:



(ill. 9)

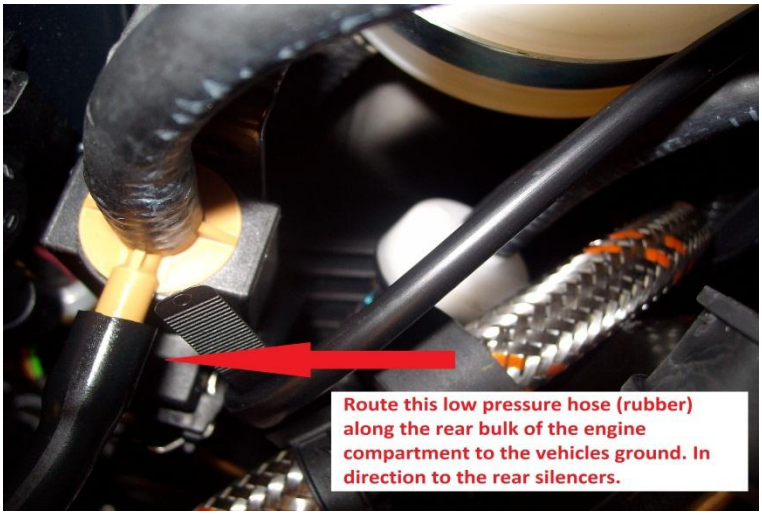


(ill. 10)

- Enlarge the 130 mm low pressure hose (rubber) using a 2250 mm long low pressure pipe (plastic). Route them along the rear bulk of the engine compartment in direction to the vehicles ground and the rear silencers. At the end of the plastic pipe stretch it again with a 60 mm long low pressure hose (rubber).
- At the end of the low pressure hose (rubber) fit the second delivered T-hose connector (see ill. 13).
- From this T-hose connector route 2 more low pressure hose (rubber) to the rear silencers. One hose for the right and one hose for the left silencer.

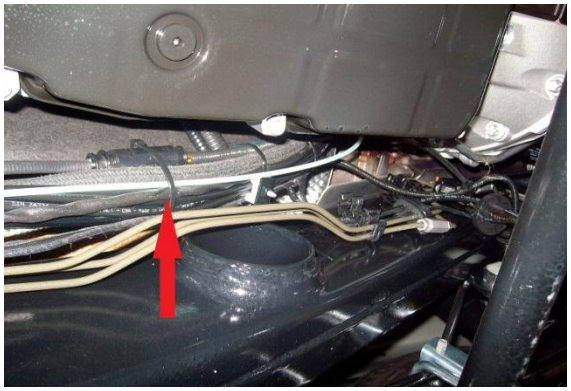
Official technology-partners PIRELLI BILSTEIN Continental ARAL YOKOHAMA ADVAN Member of VDAT

Hose system from select valve to the rear silencer:

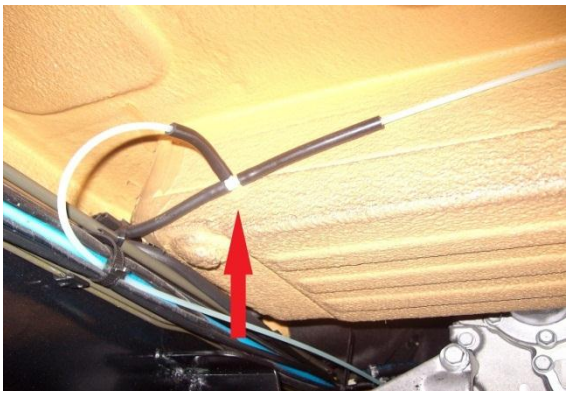


(ill. 11)

- Route the low pressure pipe (plastic) directly under the vehicles body and fix it with some cable straps at original fixing points (see ill. 12/13)

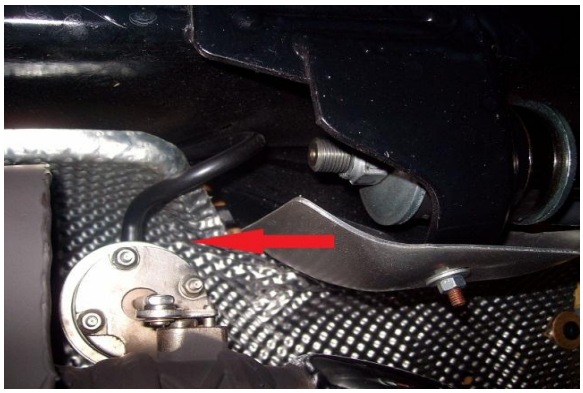


(ill. 12)

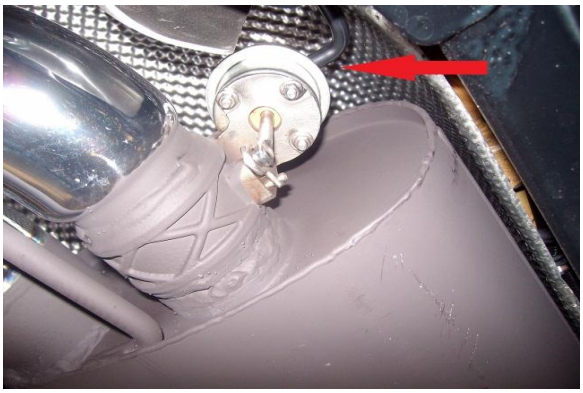


(ill. 13)

- Fit the low pressure hose (rubber) to the connections at the pressure capsules. Secure all hose/pipe connections with clamps (see ill. 14/15).



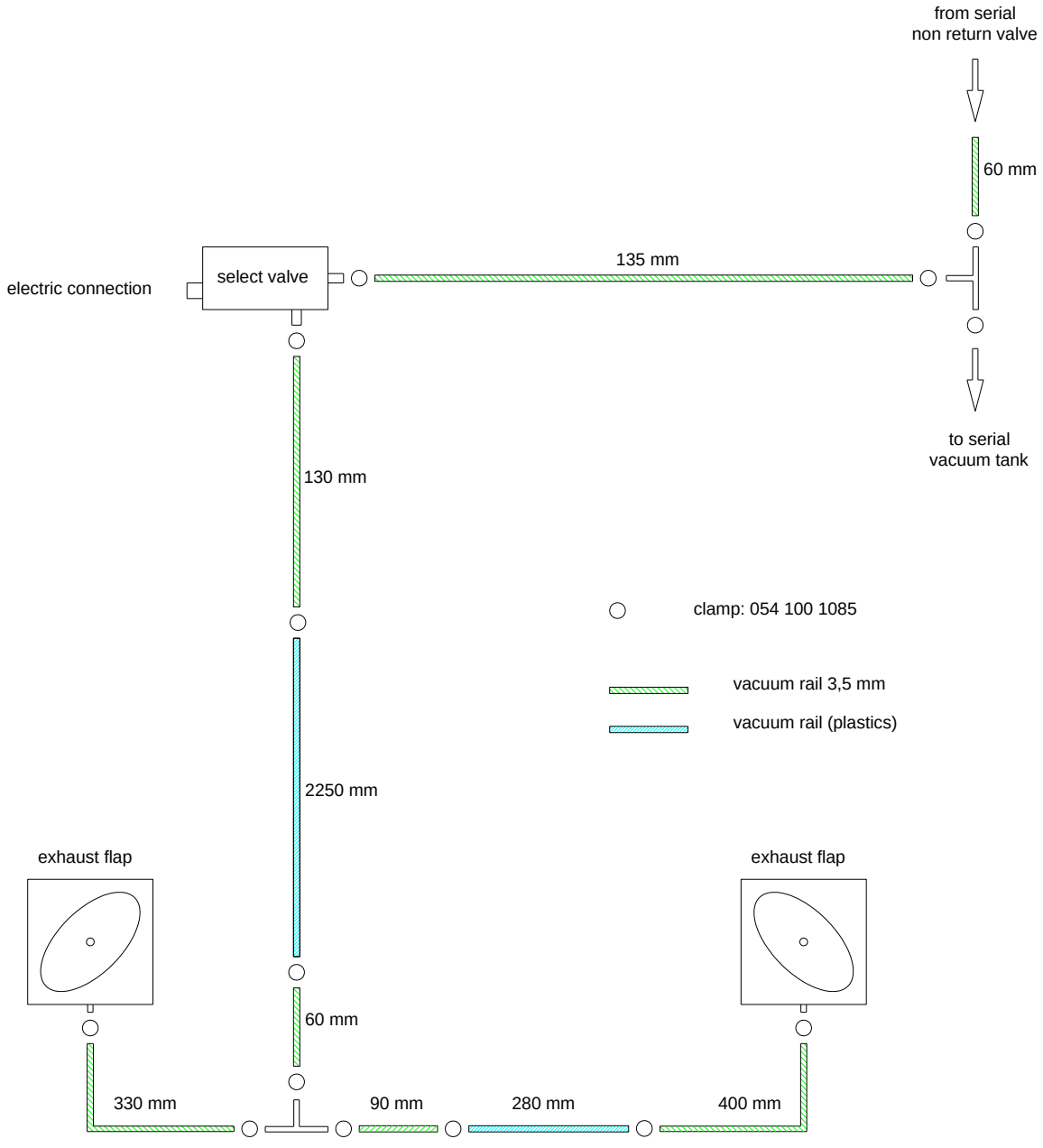
(ill. 14)



(ill. 15)

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

Schematic description of low pressure circuit with length values specifications:

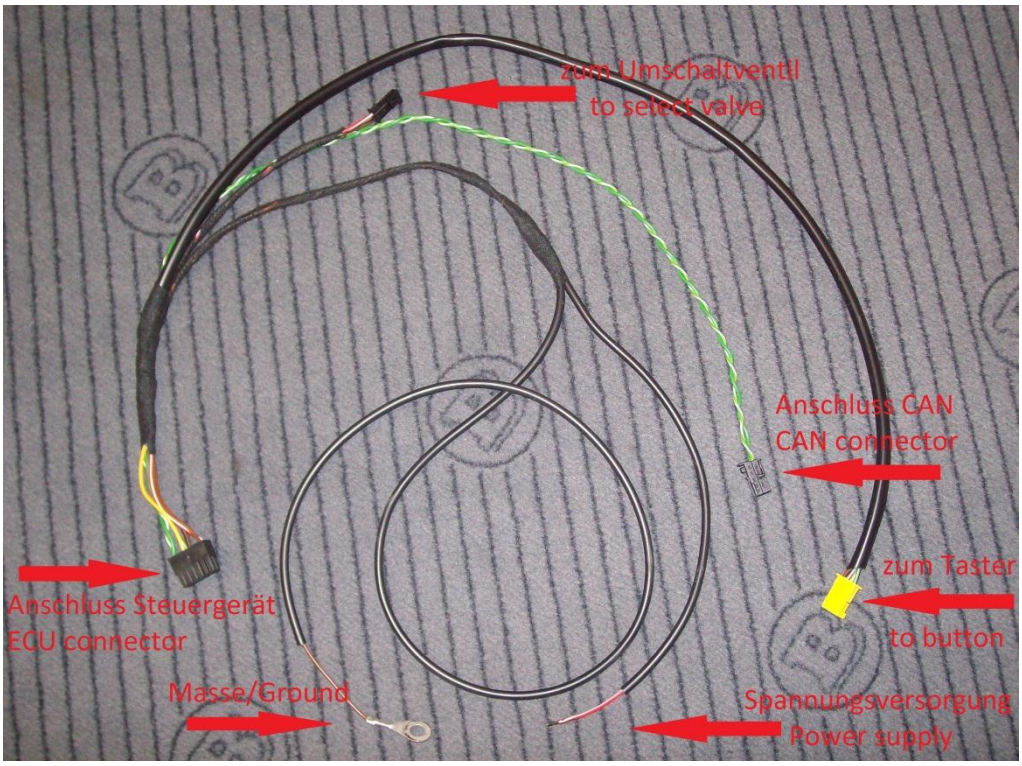


(ill. 16)

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

Electrical connections to be realized:

Wire set



(ill.17)

1. Disassamble the centre console especially the cover panels next to the gear shift and cigar lighter.

2. Route the cable of the control button (yellow plug) to the centre console (see ill. 18/19).

3. Connect the button to the wiring harness and reattach the cover panel.



(ill. 18)

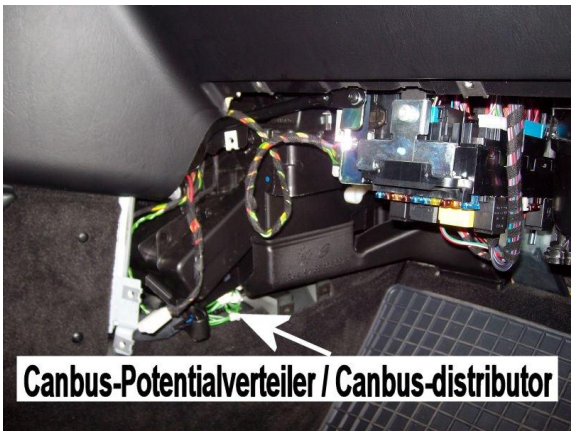


(ill. 19)

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

4. Route the cable with the 2-pole black MQS plug to the CAN-BUS distributor „engine“, which is located under the gear shift on the right side (see ill. 20).

5. Clips the 2-pole MQS plug into a free slot of the CAN-BUS distributor “engine”. Take care for correct polarity (green/green-white) (see ill. 21).



(ill. 20)



(ill. 21)

6. Bolt the ring lug of the ground cable to the standard ground terminal which is situated in the front passangers compartment next to the right lower dashboard on the right side (see ill. 22).

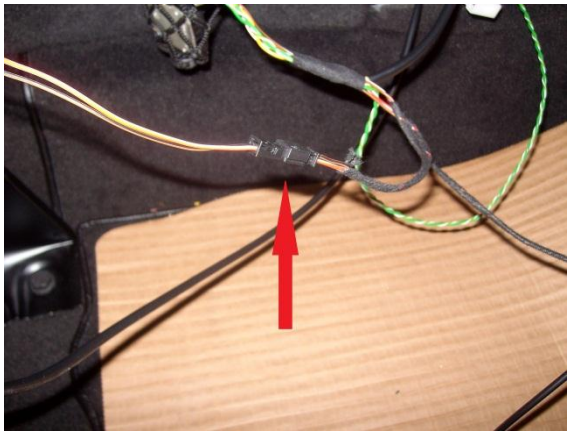
7. Connect the 2-pole black plug of the wire set with the 2-pole black plug of the select valve wire set. Take care for correct polarity (see ill. 23).

8. Route the second plug of the select valve wire set to the select valve in the engine compartment. Use the original cable channel, which is located on the left side of the dashboard, to route the wire from inside car to the engine compartment.

9. Use original fixing points for fixing the wires.



(ill. 22)



(ill. 23)

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

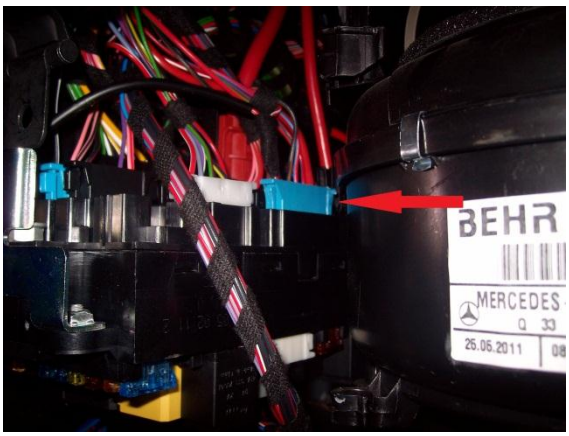
Select valve wire set



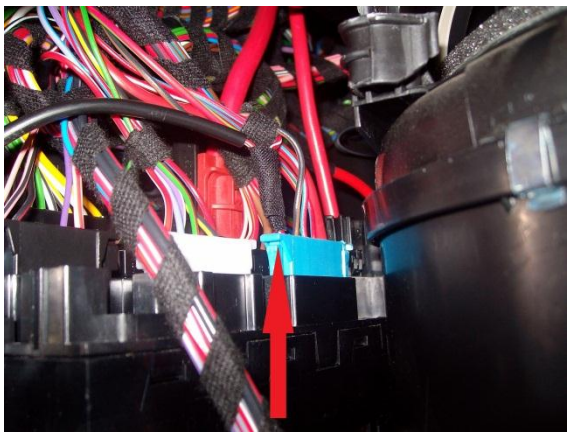
(Abb. 24)

10. Route the red-white cable of the BRABUS wire set for power supply to SAM (fuse and realy box) front, which is located under the right dashboard cover.

11. Solder the red-white cable parallel to the red-white cable at PIN 1 of the blue plug (see ill. 25/26).



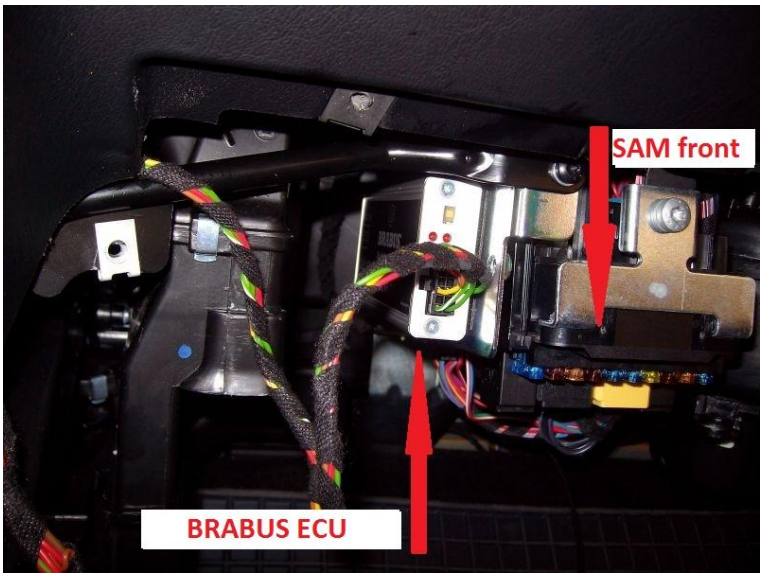
(ill. 25)



(ill. 26)

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

12. Attach the BRABUS control unit to the right lower dashboard cover. Fix it in the near of the SAM front by using the velcro-tape and connect the ECU plug to the BRABUS control unit (see ill. 27).

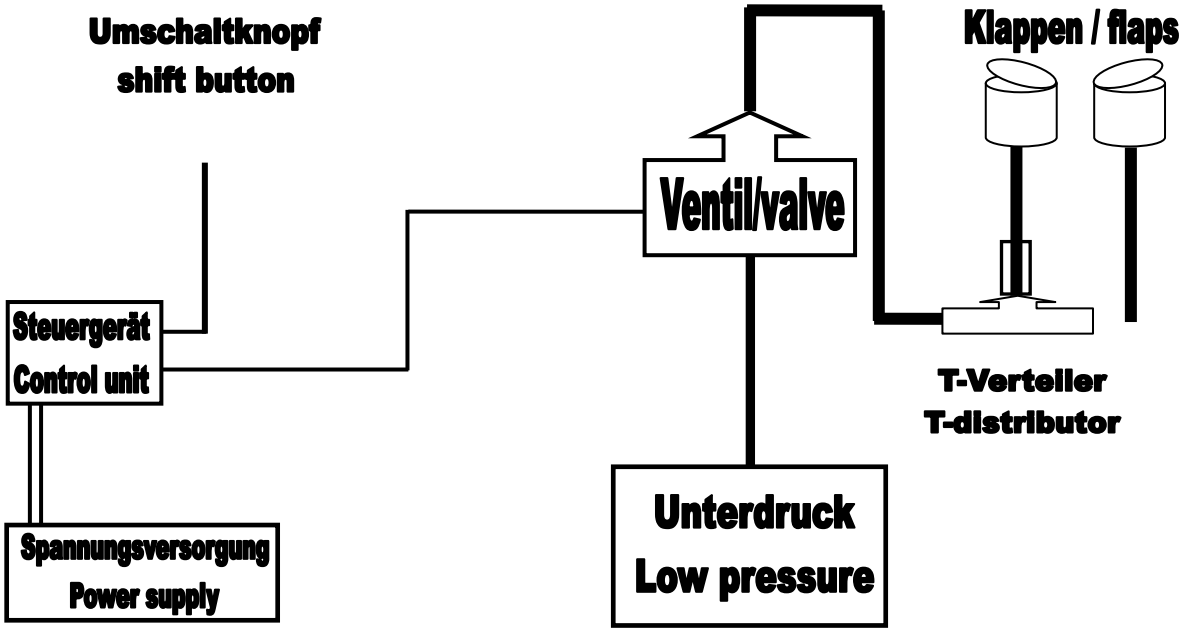


(ill. 27)

Function-description:

The car always starts with the exhaust flaps switched „quiet“ (flaps closed) and can be switched „loud“ by pushing the exhaust control-button. Whenever the car is standing the flaps are closed, also when the system was previously switched „loud“.

Schematic description of the flap exhaust system:



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