D6-performance-kit for W 470, X-350d
Article-no. 470-736-00

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.

Before you start please check the content of the supplied parts as detailed below.

Included in delivery BRABUS:

1x PowerXtra Et 3 - control unit	002-636-10
1x Wiring harness incl. CAN-adapter	470-736-05-K
1x Lettering „Brabus“	211-000-14
1x Set of „powered by“ letterings	000-000-30
1x Installation certificate	

Additionally required:

- Soldering equipment
- 6mm drill
- Angle drill

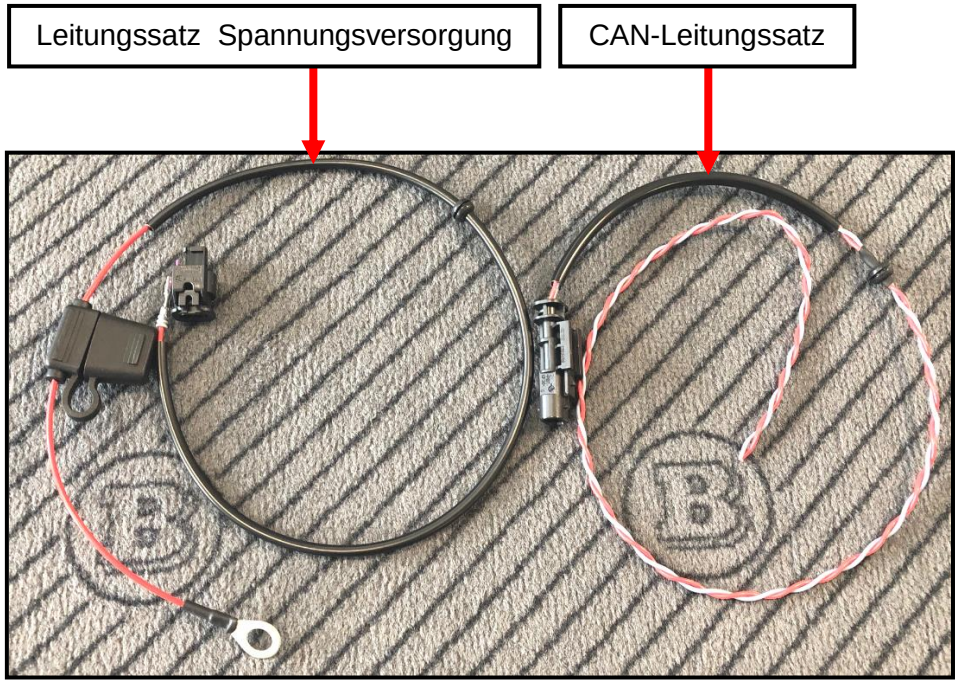


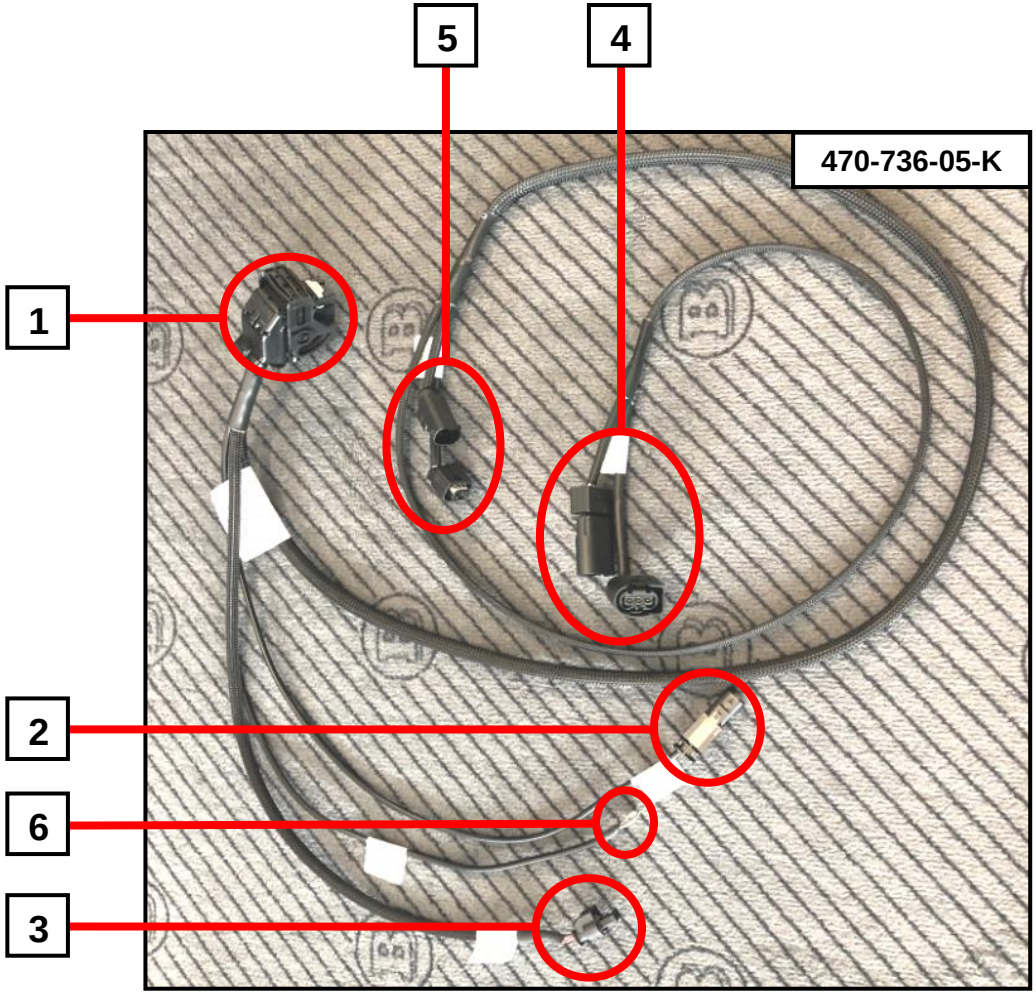
Disconnect the vehicle battery prior to assembly.

Perform the disassembly / assembly of standard components according to Mercedes-Benz workshop information system.

Overview of connections to be established:

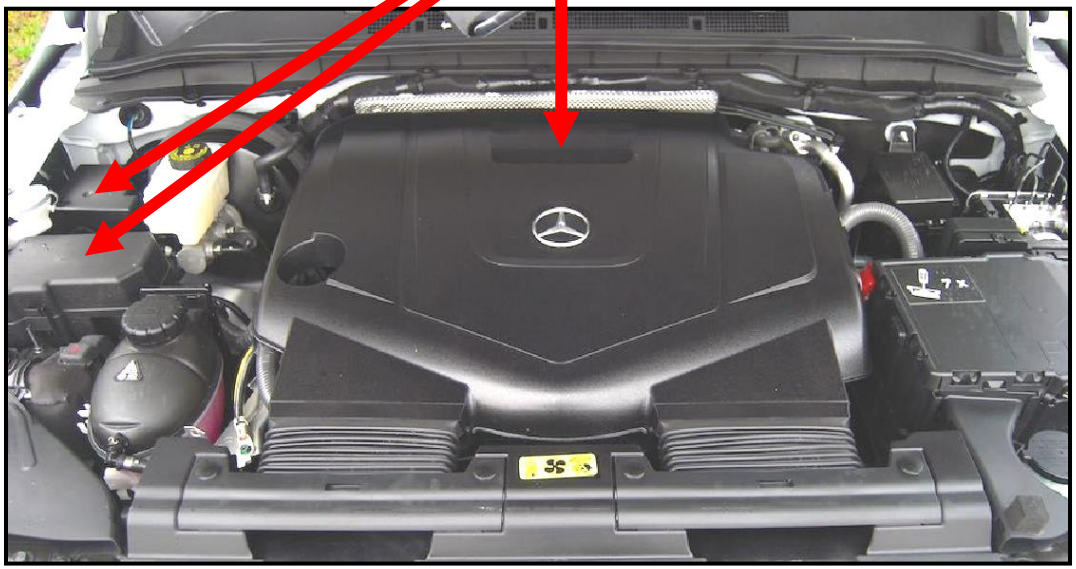
1- *PowerXtra - main plug*
2- *Power supply connector*
3- *CAN - connector*
4- *Fuel high pressure sensor (B4/6) adapters*
5- *Charge pressure sensor (B5/1) adapters*
6- *Ground wire with ring lug - to ground terminal within engine bay*



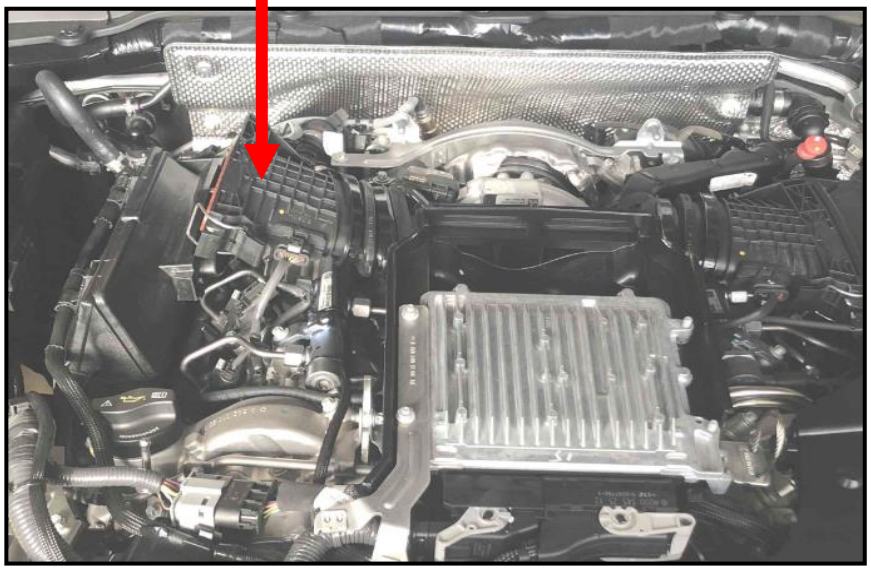


3

Remove engine cover, open fuse and relay boxes



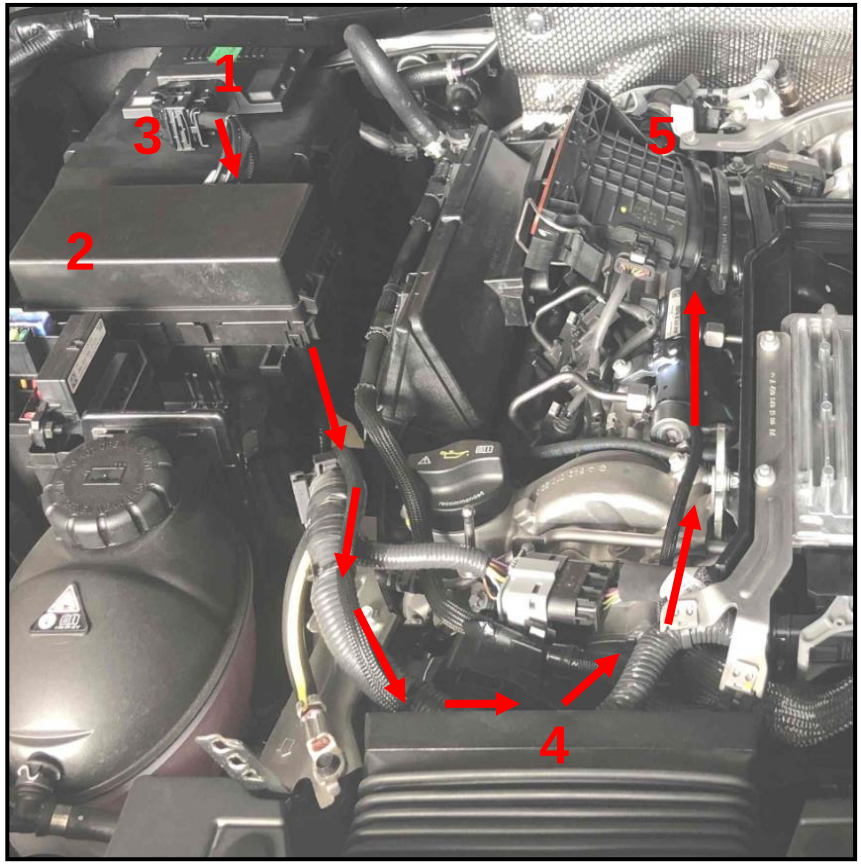
Loosen and fold up right air duct (driving direction)

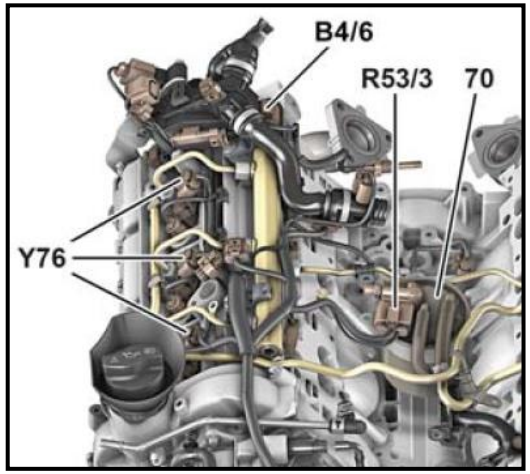


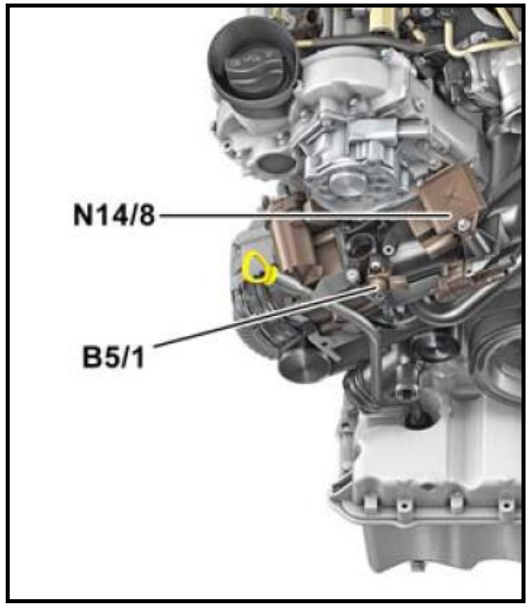
4

Wire harness routing/ positions of wire harness connections:

1- *Assembly position of PowerXtra control unit (fixation by bracket)*
2- *Power supply connector*
3- *Position of CAN-connections*
4- *Position of charge air pressure connector*
5- *Position of fuel high pressure connector (B4/6)*



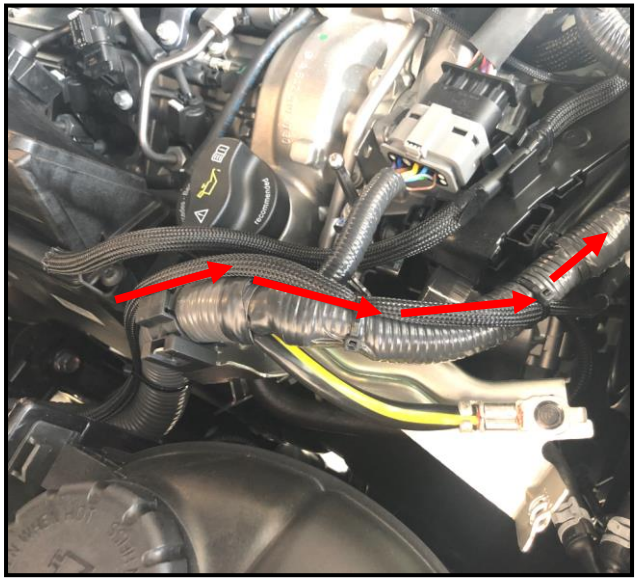




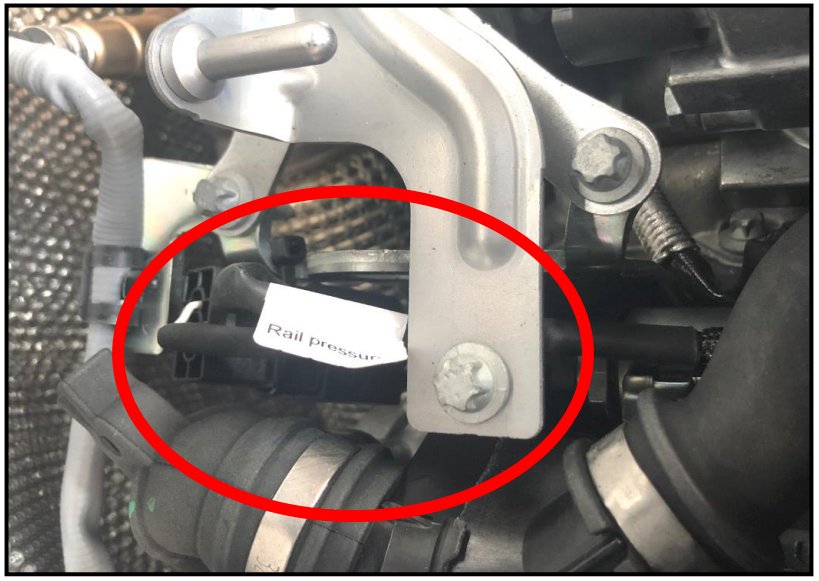
Official technology-partners PIRELLI BILSTEIN Continental MOTUL YOKOHAMA ADVAN Member of VDAT

Start routing the wire harness at the fuse and relay box near the bulkhead.

Route the wiring harness to the charge pressure sensor (B5/1) and below the right air duct to the fuel high pressure sensor (B4/6). Disconnect the standard plugs of both sensors and connect them to the BRABUS wiring harness, connect the plugs of the BRABUS wiring harness to the sensors.
Secure adapters and wiring loom at appropriate positions using cable ties.







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

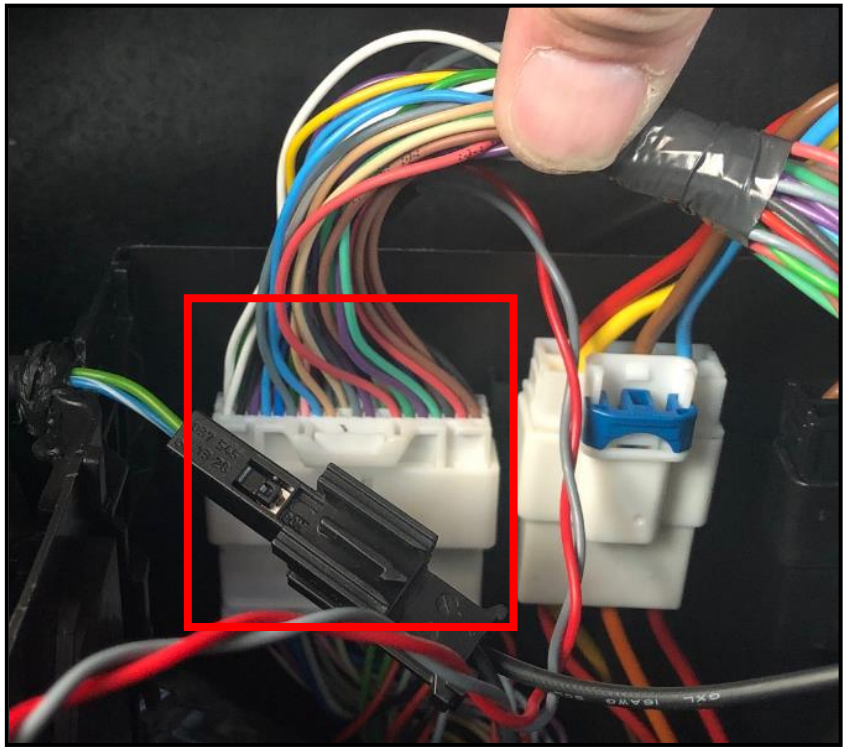
Release plug module and take it out of the fuse and relay box.
Drill 6mm hole into the sidewall of the fuse and relay box using an angle drill according to image below.
Make sure not to damage any electric wirings.

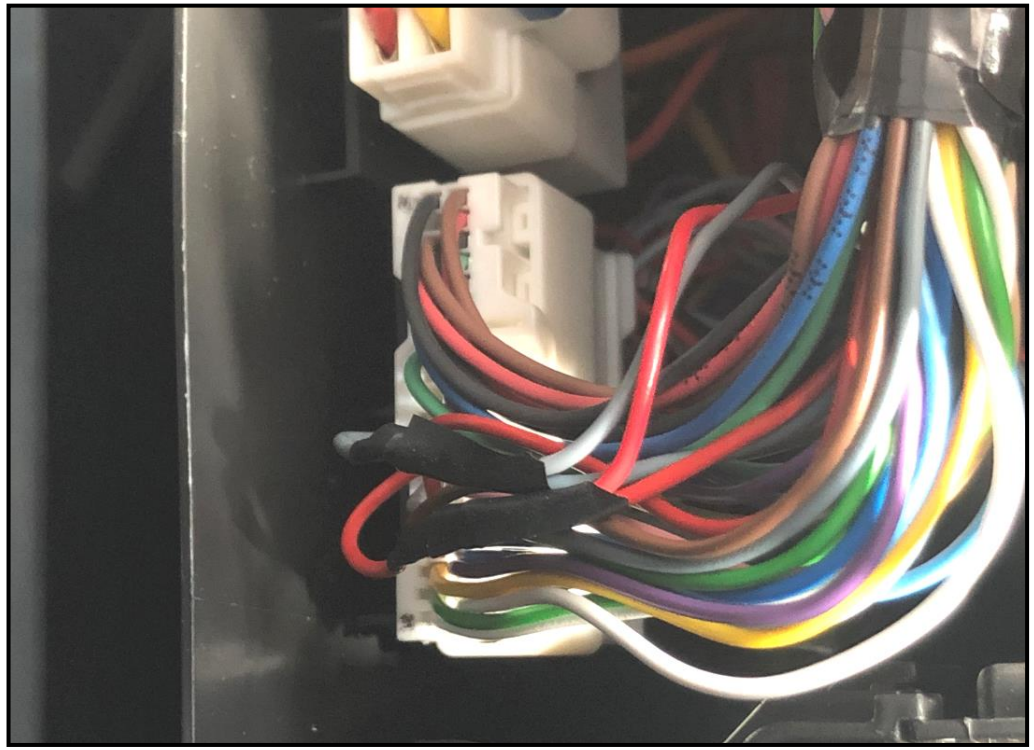


Official technology-partners PIRELLI BILSTEIN Continental MOTUL YOKOHAMA ADVAN Member of VDAT

Route the CAN wiring harness through the hole into the fuse and relay box. Attach the rubber grommet to the hole. Make sure for proper seating and sufficient denseness. Solder the CAN wires color-equal to the standard CAN wires (gy, rd) of the white plug shown (slots 12 & 13). Sufficiently isolate the soldered areas and connect the CAN wiring harness to the BRABUS main wiring harness.

Re-attach the plug panel and close the fuse and relay box.

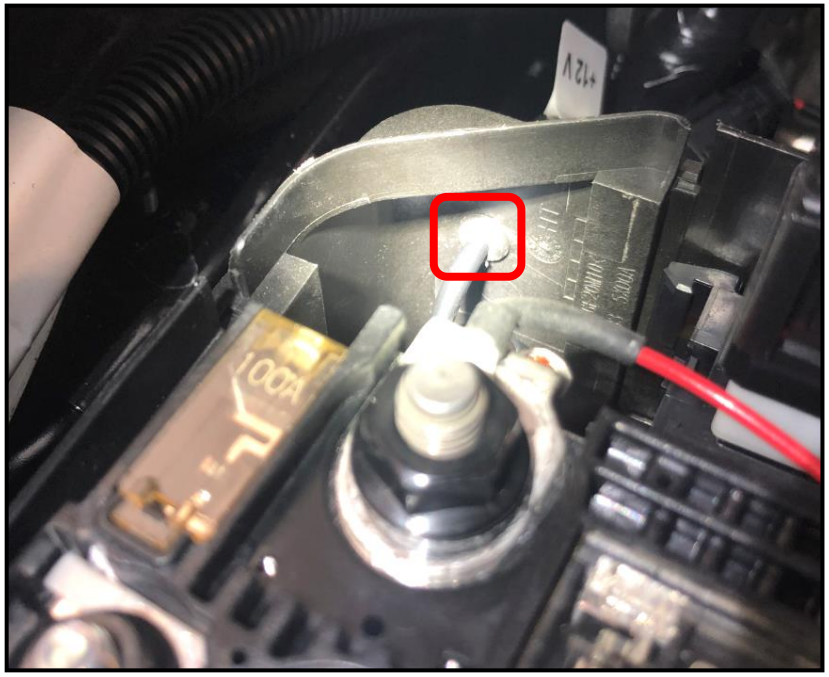


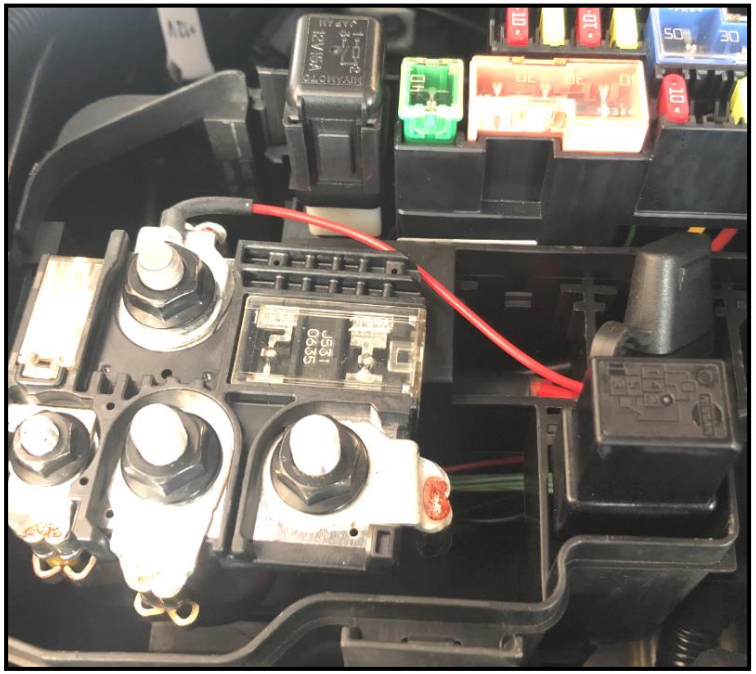


Official technology-partners PIRELLI BILSTEIN Continental MOTUL YOKOHAMA ADVAN Member of VDAT

Release fuse and relay panel out of second fuse and relay box and take it out, drill 6mm hole into the sidewall which is directed to the bulkhead. Make sure not to damage any electric wirings. Route the power supply wiring harness through the hole into the fuse and relay box.
Attach the rubber grommet to the hole and bolt the power ring lug to the power supply terminal within the fuse and relay box. Make sure for proper seating and sufficient denseness. Close the fuse and relay box.

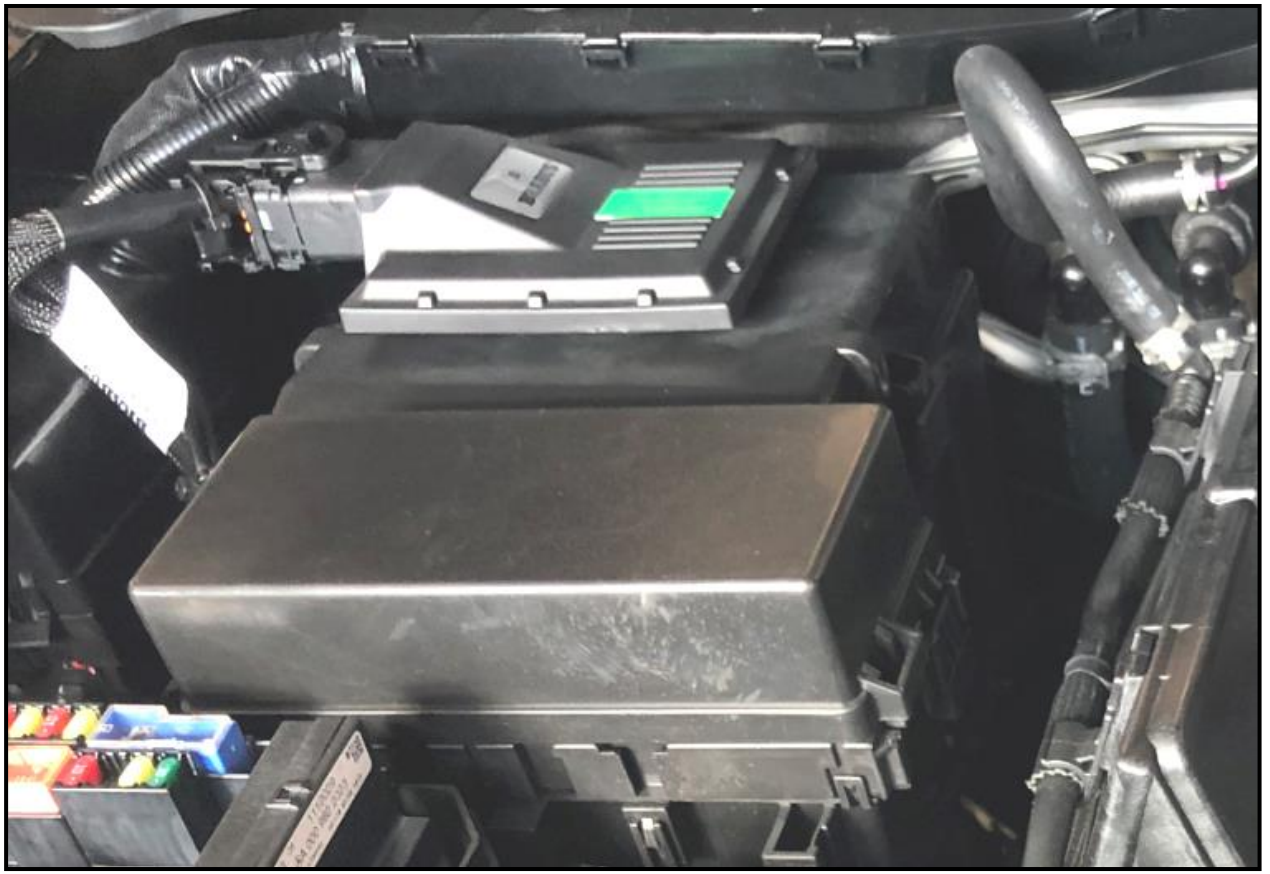
Connect power supply wiring harness to main wiring harness.





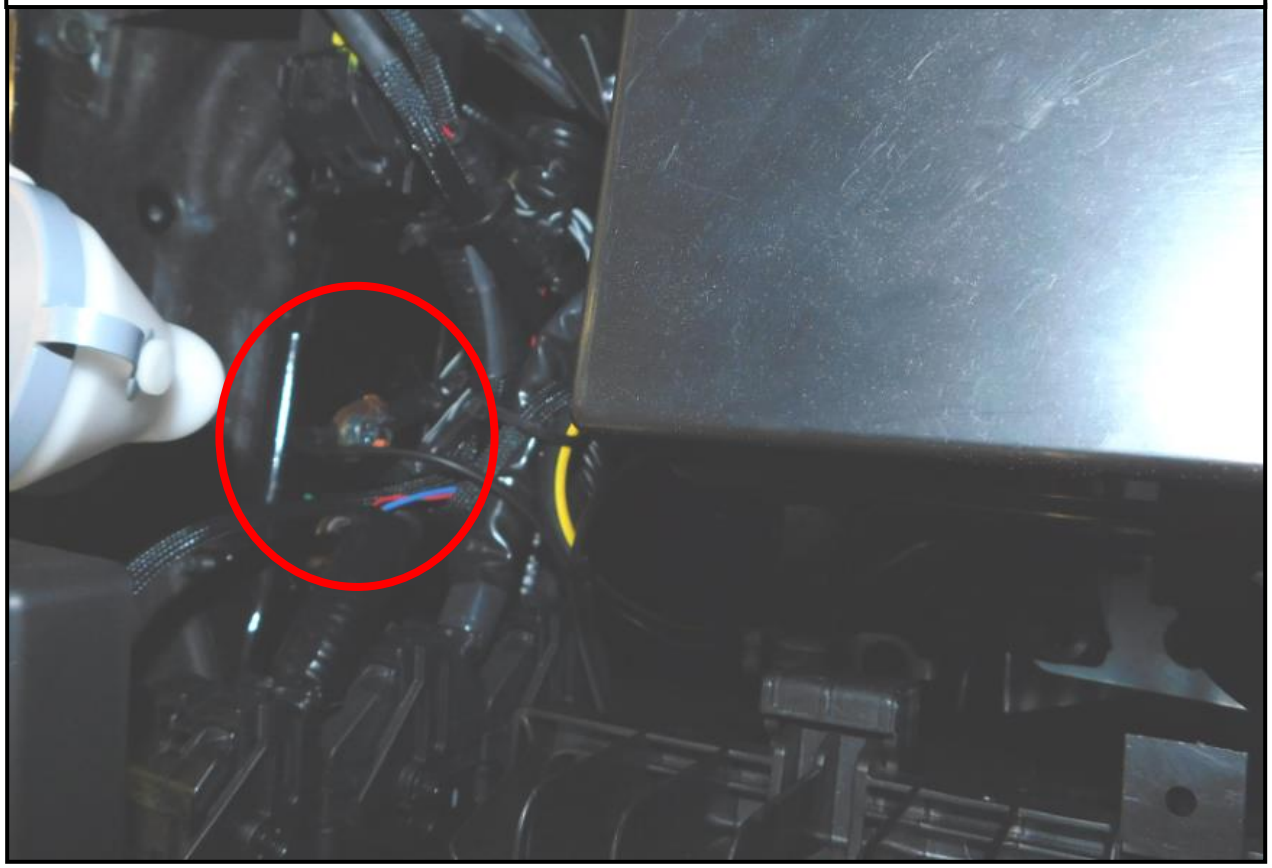
Official technology-partners PIRELLI BILSTEIN Continental MOTUL YOKOHAMA ADVAN Member of VDAT

Clean and degrease the lid of the rearmost fuse and relay box, bond the control unit bracket supplied to the lid using adhesive tape supplied. Connect the BRABUS PowerXtra control unit to the wiring harness and attach the control unit to the bracket.



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

Bolt ground ring lug of ground wire to ground terminal right within engine bay (next to fuse and relay box).



Finally check the PowerXtra – wiring harness has been securely routed and cannot be damaged due to tensile stress, heat or sharp edges.

Connect vehicle main battery. Check and clear the fault – store, re – attach all trim and cover parts.

The PowerXtra – performance kit is ready to run after installation and does not need to be activated in any way.