D4-performance-kit for W 470, X-250d
Article-no. 470-740-00

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	470-740-05-K
1x Bracket for PowerXtra control unit	
1x Lettering „Brabus“	211-000-14
1x Set of „powered by“ letterings	000-000-30
1x Installation certificate	



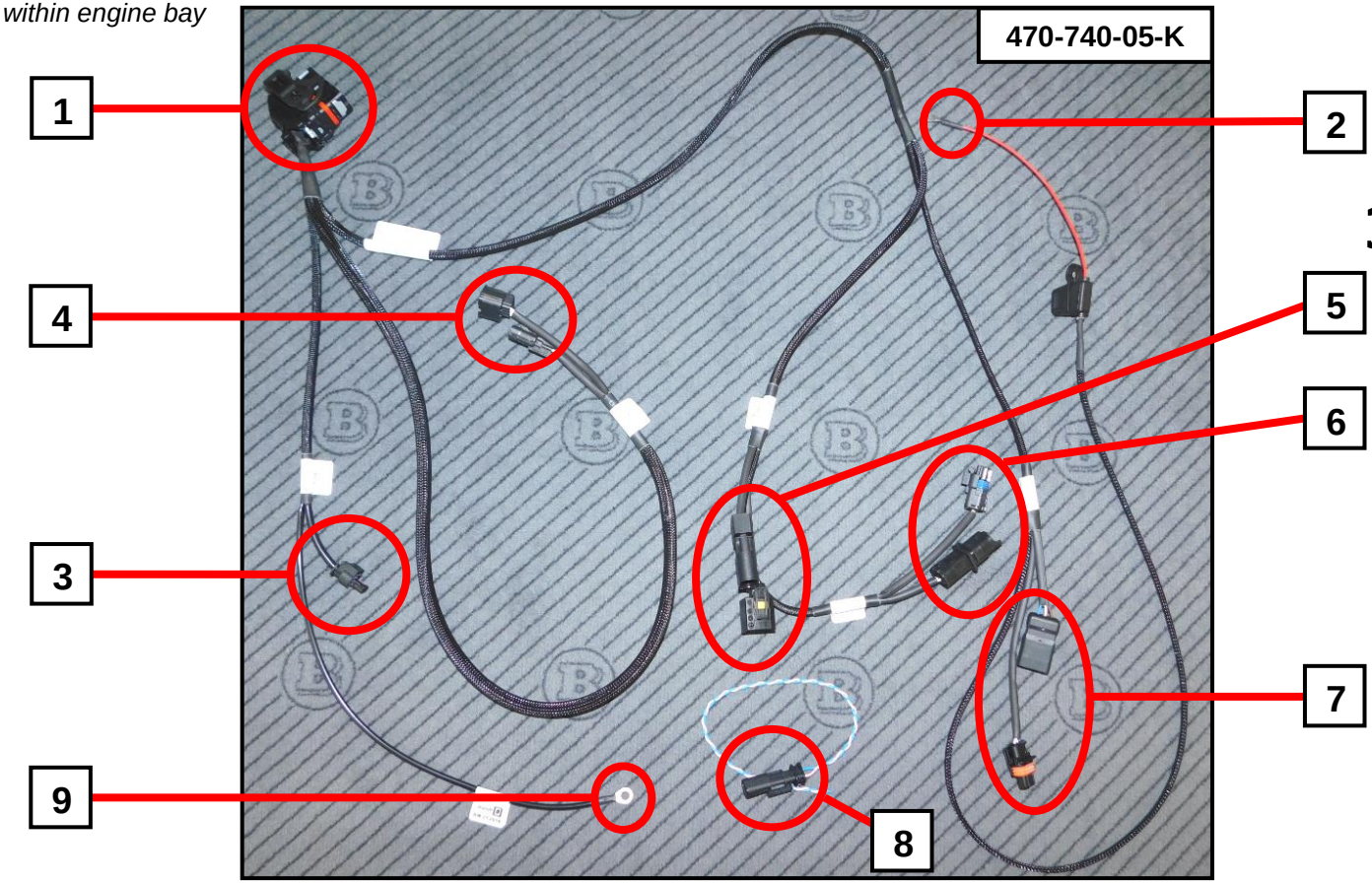
Disconnect the vehicle battery prior to assembly.

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

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

Overview of connections to be established:

1- *PowerXtra - main plug*
2- *Power supply wire with ring lug - to vehicle battery power supply*
3- *CAN - connector*
4- *Air mass sensor plug set*
5- *Injector 3 plug set*
6- *Fuel high pressure sensor plug set*
7- *Charge pressure sensor plug set*
8- *CAN adapter*
9- *Ground wire with ring lug - to ground terminal within engine bay*

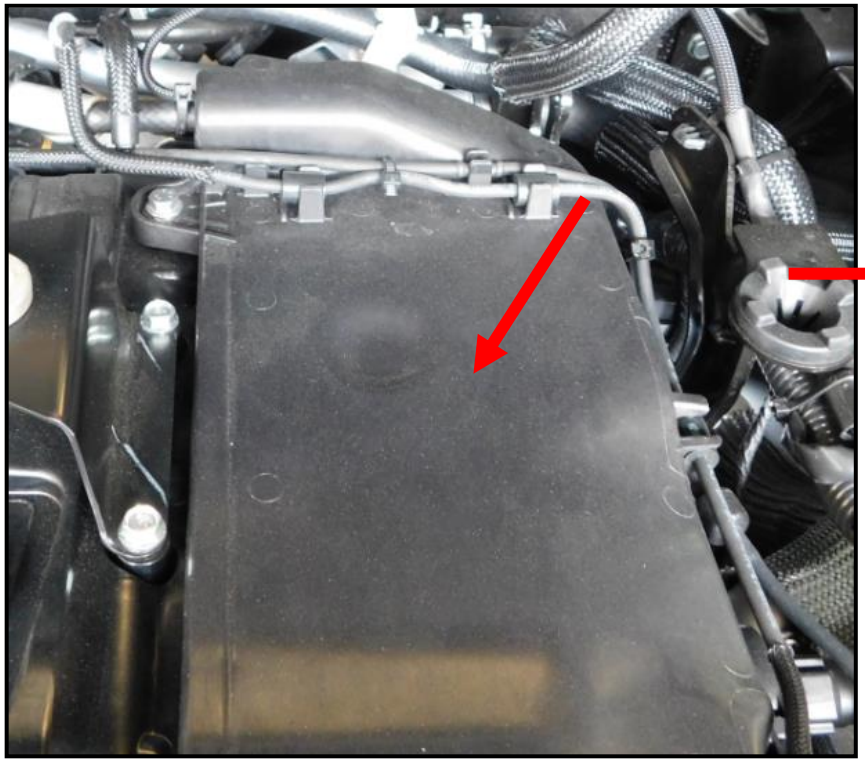


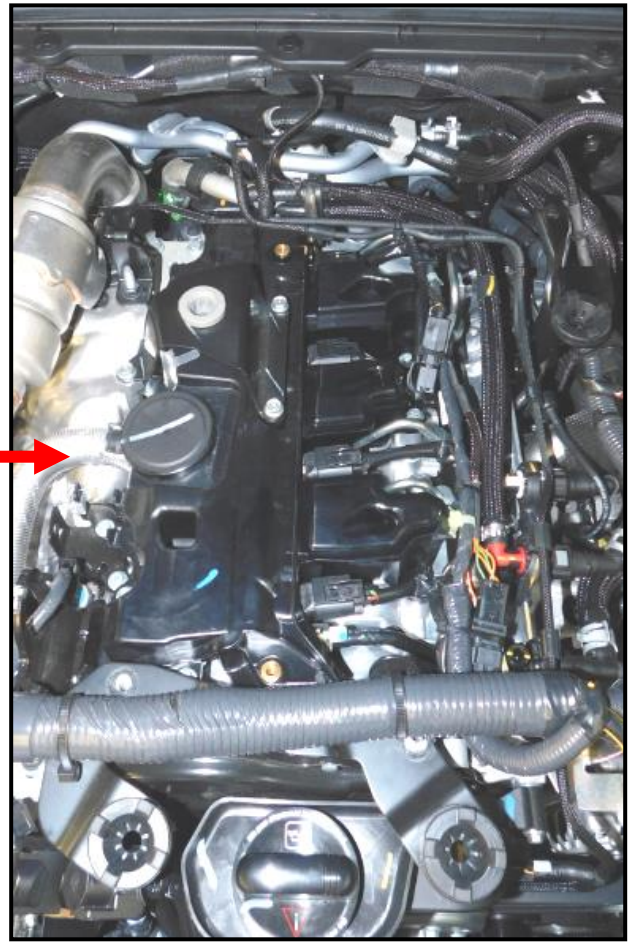
Official technology-partners PIRELLI BILSTEIN Continental MOTUL YOKOHAMA ADVAN Member of VDAT

Remove engine cover



Remove valve cover plastic covert o get access to the sensor plugs. The valve cover plastic cover is secured by 5 bolts and 2 braces.

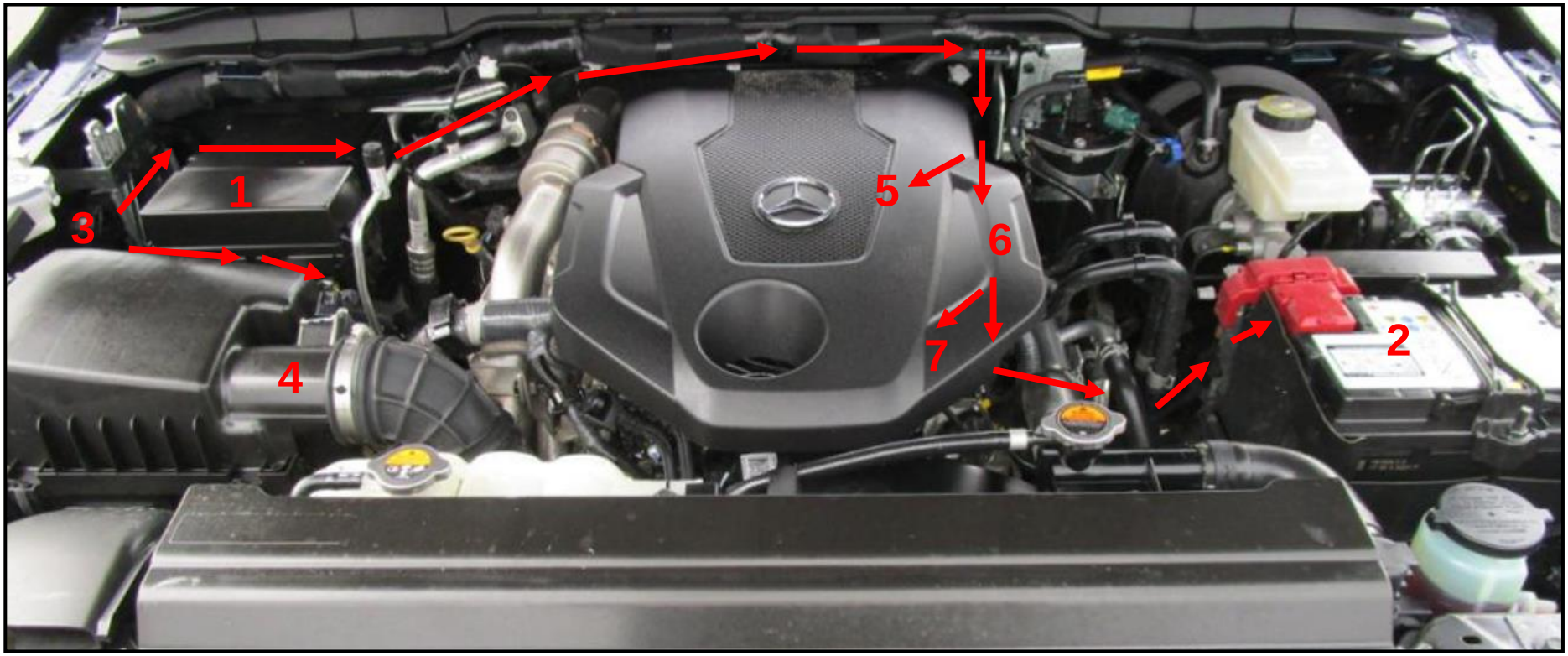




Official technology-partners PIRELLI BILSTEIN Continental MOTUL YOKOHAMA ADVAN Member of VDM

Wire harness routing/ positions of wire harness connections:

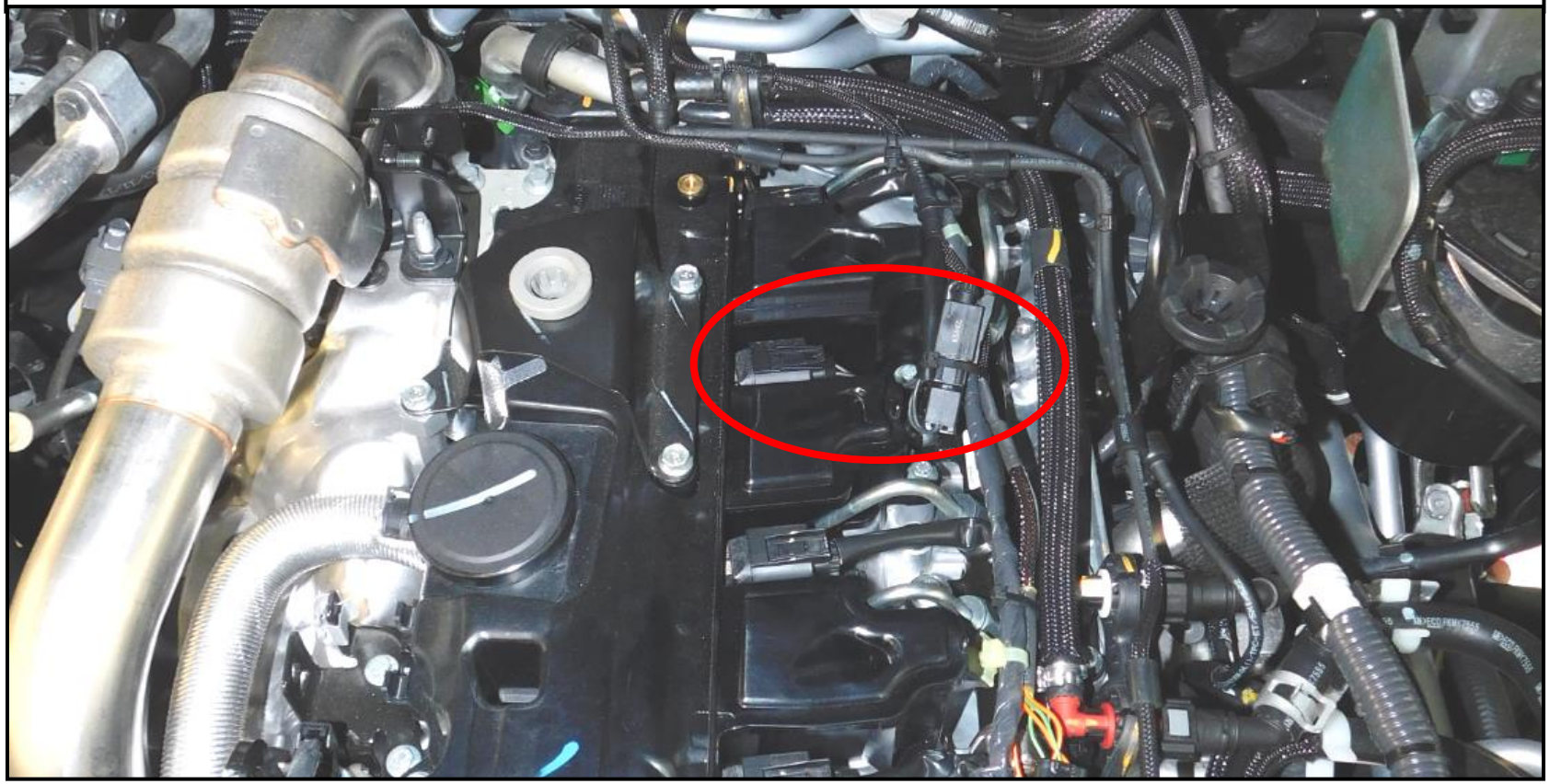
1- Assembly position of PowerXtra control unit (fixation by bracket)
2- Power supply connector
3- Position of CAN-connections
4- Position air mass sensor connector
5- Position of injector connection cylinder 3
6- Position of charge air pressure connector
7- Position of fuel high pressure connector



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

Start routing the wiring harness on injector cylinder 3

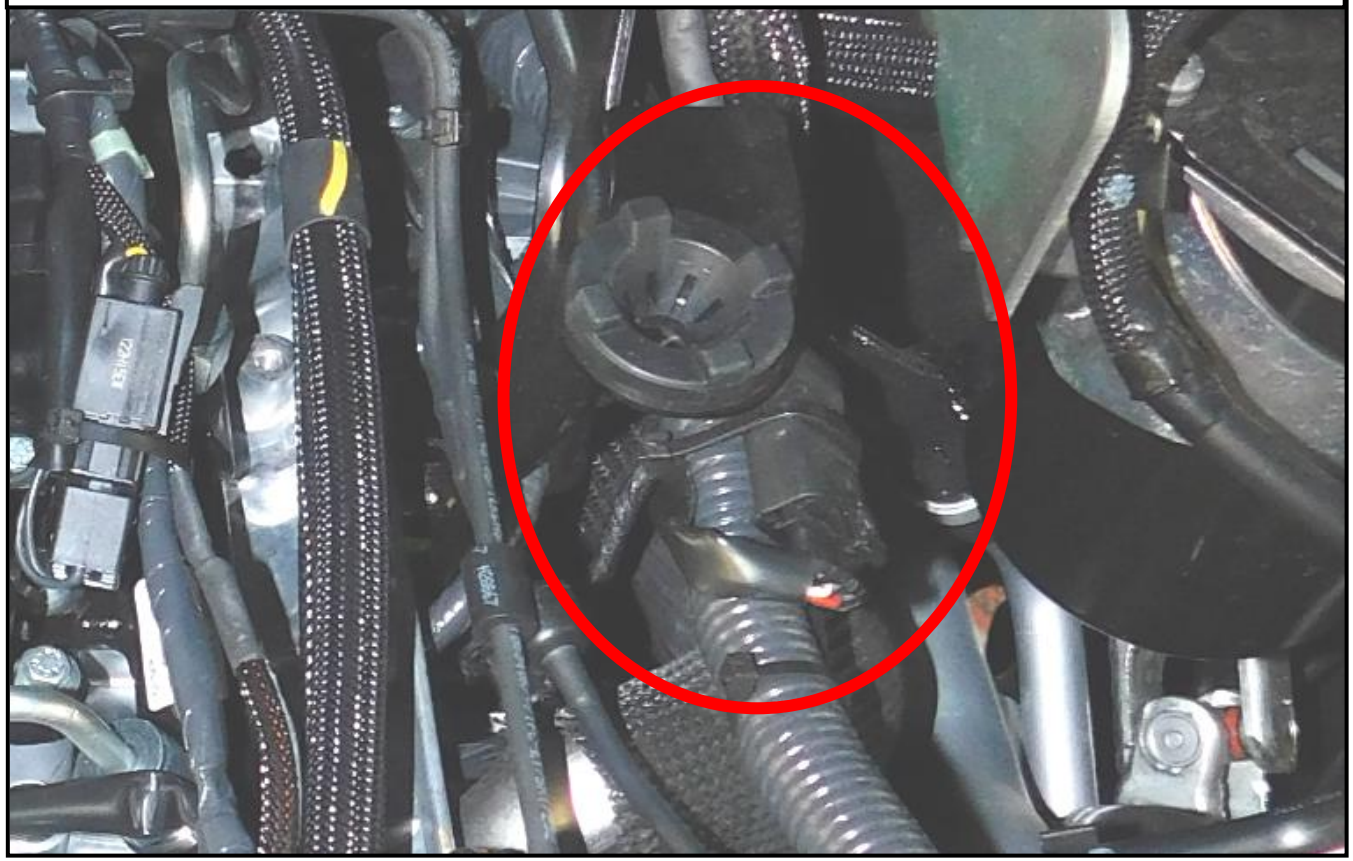
Connect standard plug of injector 3 to socket of Brabus wire harness,
Connect plug of Brabus wire harness to injector cylinder 3.
Secure wire harness using cable ties.



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

Route the wire harness to the charge air pressure sensor (left next to engine, driving direction, see image. below).

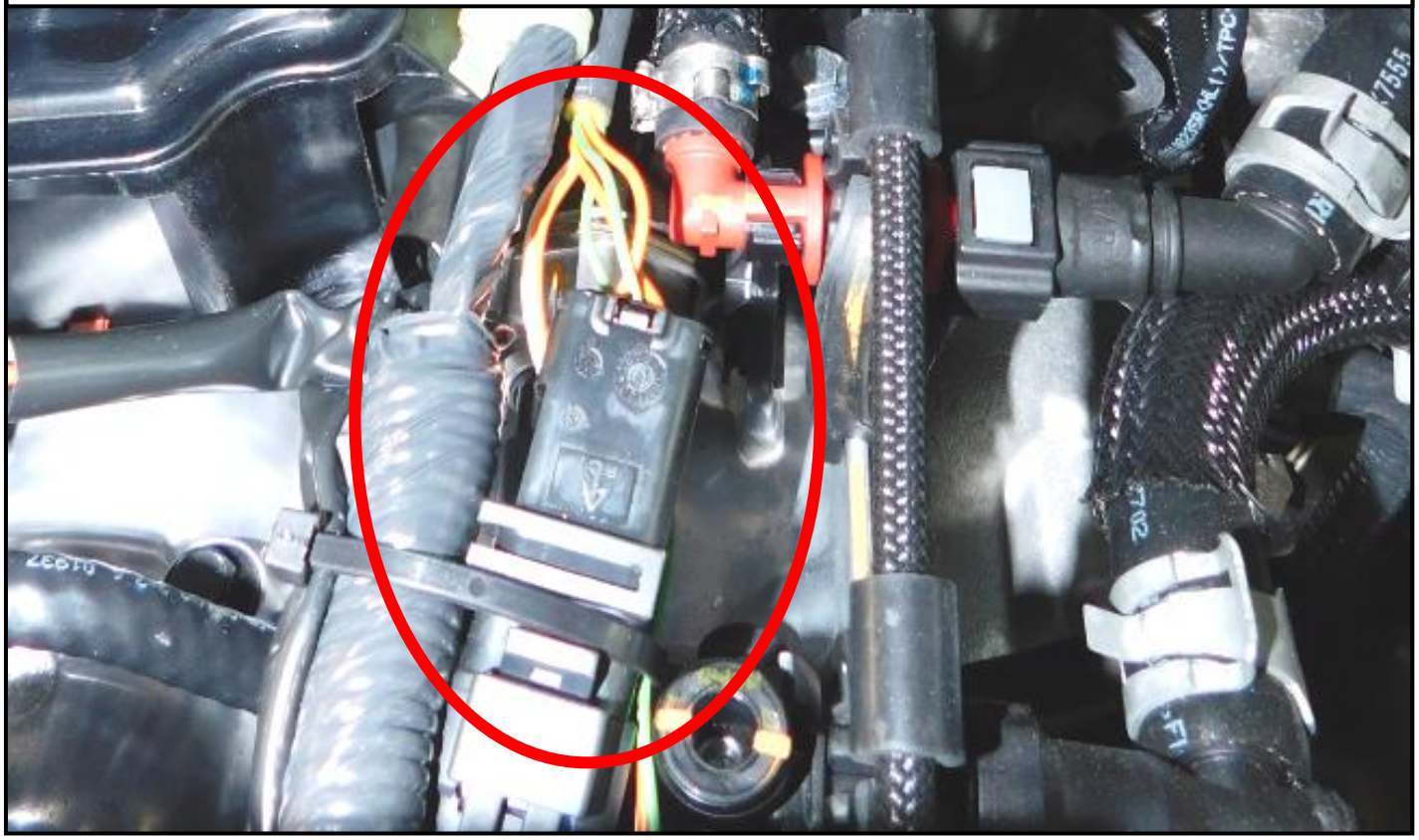
Attach standard plug of charge air pressure sensor to socket of Brabus harness, connect Brabus harness plug to charge air pressure sensor
Secure wire harness using cable ties.



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

Route wire harness to fuel high pressure sensor.

Connect standard plug of fuel high pressure to socket of Brabus wire harness, connect Brabus harness plug to fuel high pressure sensor.
Secure wire harness using cable ties.

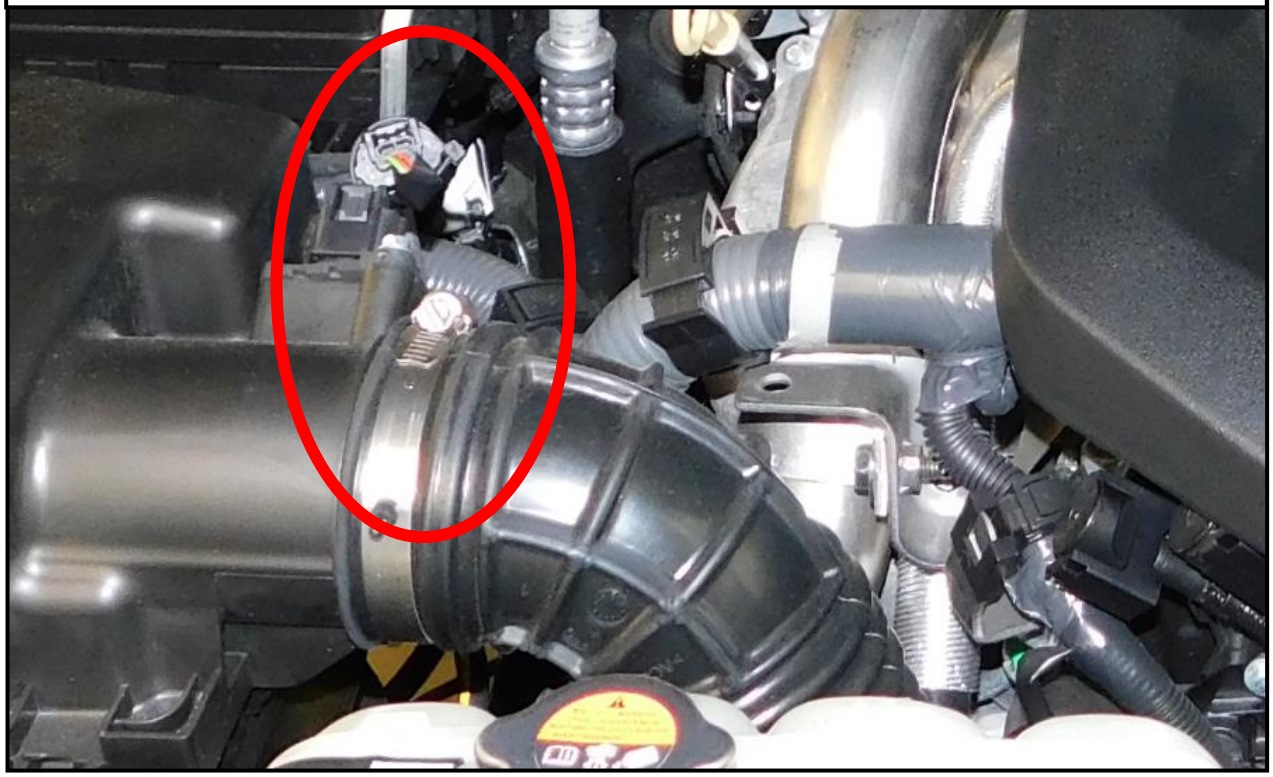


Official technology-partners PIRELLI BILSTEIN Continental MOTUL YOKOHAMA ADVAN Member of VDAT

Route wire harness to air mass sensor.

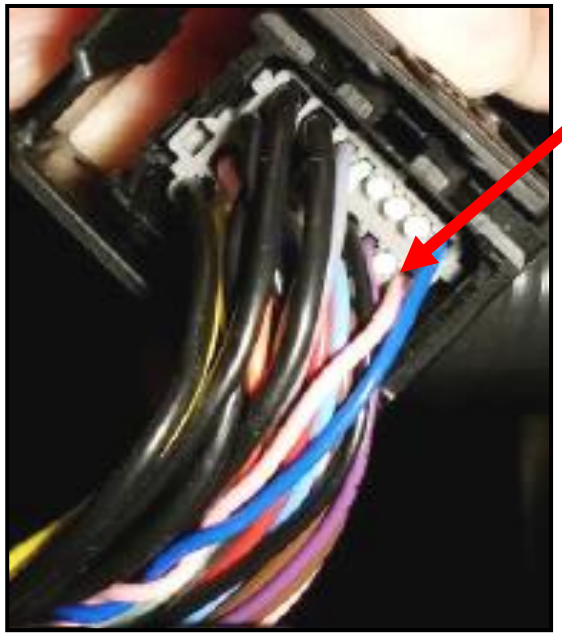
Connect standard plug of air mass sensor to socket of Brabus wire harness, connect Brabus harness plug to air mass sensor.

Secure wire harness using cable ties.



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

Solder the CAN wires of the Brabus wire harness parallel to the CAN wires of the lower control unit plug. Solder the blue wire out of slot A4 of the control unit plug to the blue wire of the Brabus wire harness. Solder the pink wire out of slot A3 of the control unit plug to the pink wire of the Brabus wire harness. Sufficiently isolate soldered areas.



Solder wire of slot A3 to pink wire of Brabus harness

Solder wire out of slot A4 to blue wire of Brabus harness

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

Fixate Brabus PowerXtra control unit using bracket supplied at area shown, connect PowerXtra main plug to control unit.



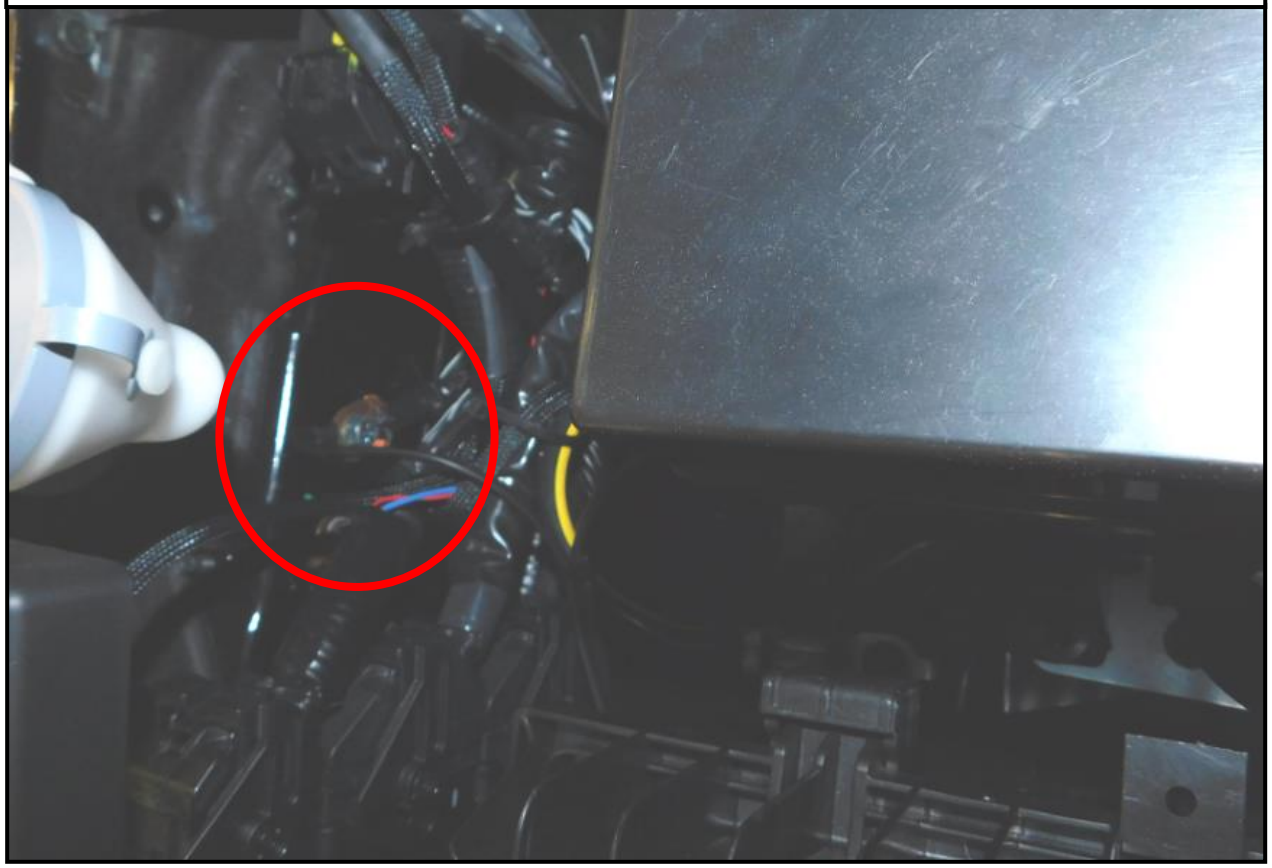
Official technology-partners PIRELLI BILSTEIN Continental MOTUL YOKOHAMA ADVAN Member of VDAT

Bolt ring lug of power supply wire (red) to the vehicle battery power terminal.



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.