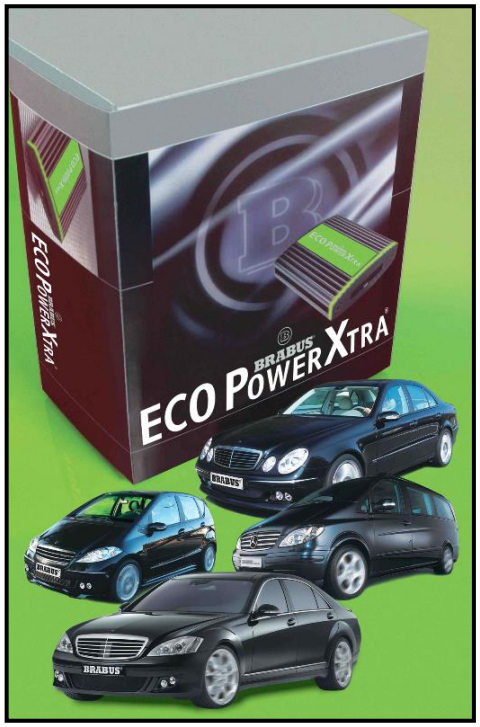
D4-performance-ki for W 447, V-250 Bluetec,
Article-no.: 447-744-00

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:

1x PowerXtra Et 3-control unit	002-636-10
1x PowerXtra wiring loom incl.2-pole CAN-plug	447-744-05
1x Bracket for PowerXtra-control unit	
2x Screw M3 for bracket	
2x Nut M3	
1x Unlocking tool for cable lug	
1x CAN-adapter	447-CAN-05-K
1x „Brabus“-typing	211-000-14
1x Set of „powered by“-typings	000-000-30
1x Installation certificate	







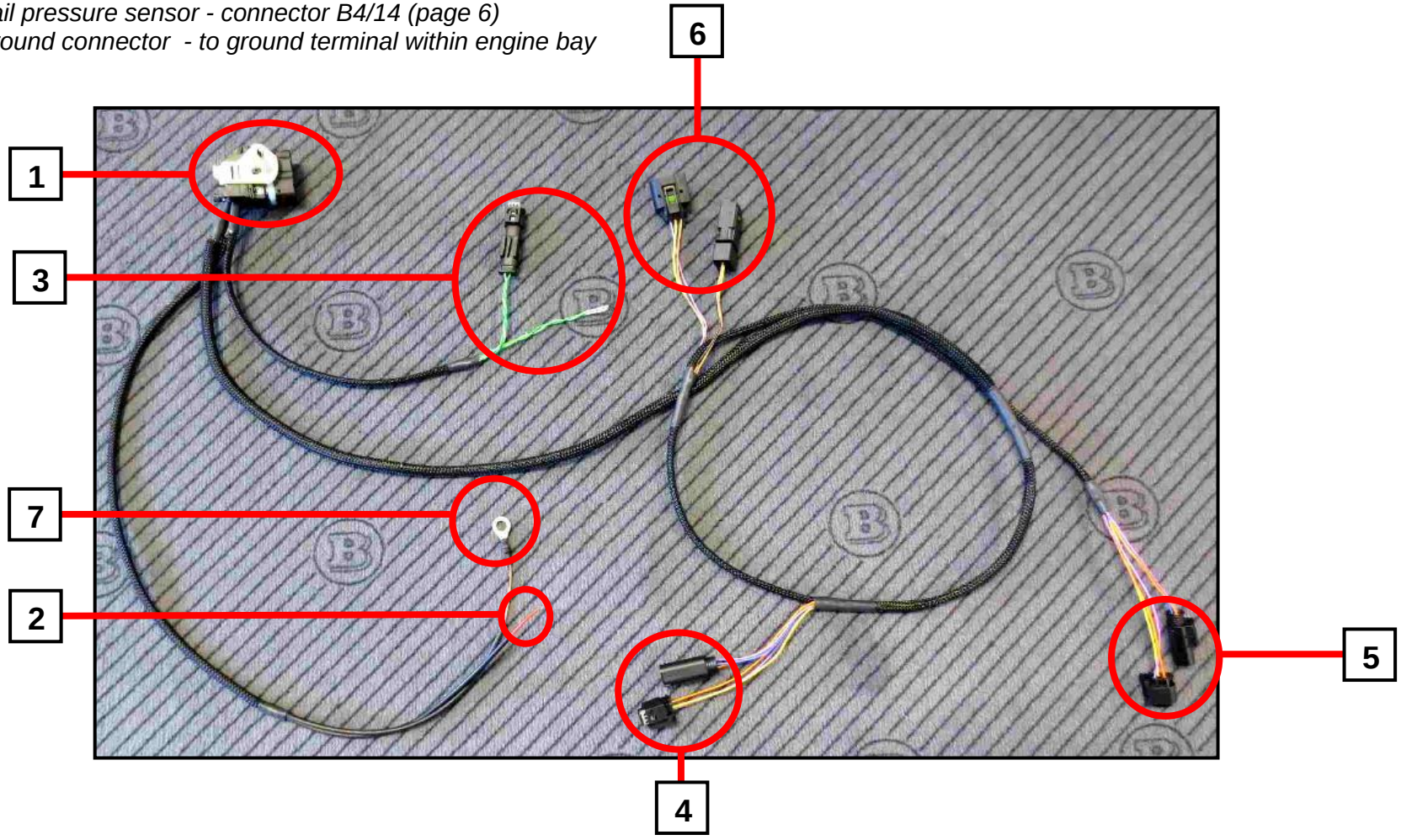
Disconnect the car main battery prior to installation.

Disassemble standard components according to Mercedes-Benz workshop instructions.

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Decsription of electrical connectors:

1- PowerXtra-main plug
2- Constant power supply – to fuse and relay box within engine bay (right side, driving direction).
3- CAN - Connector
4- Charge pressure sensor - low pressure of exhaust gas turbocharger B5/4 (page 7)
5- Charge pressure sensor - connector B5/6 (page 5)
6- Rail pressure sensor - connector B4/14 (page 6)
7- Ground connector - to ground terminal within engine bay

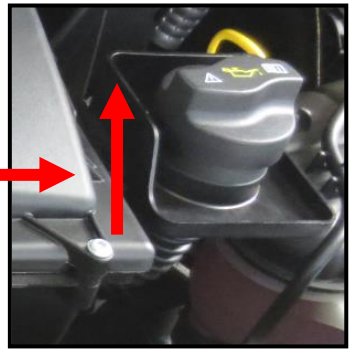


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Release plugs, hoses and oil filler unit from airfilter housing, remove airfilter housing and engine plastic cover.

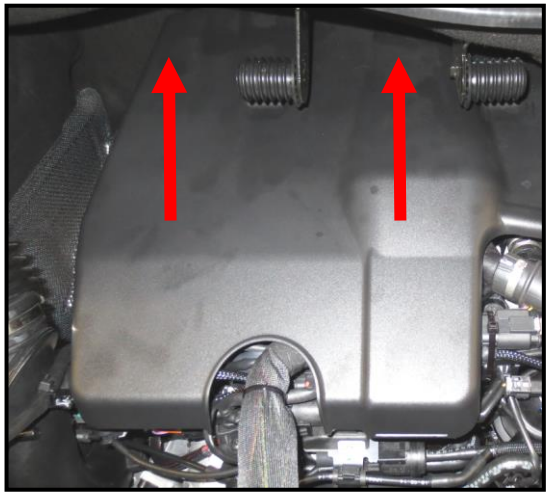






Open fuse and relay - box



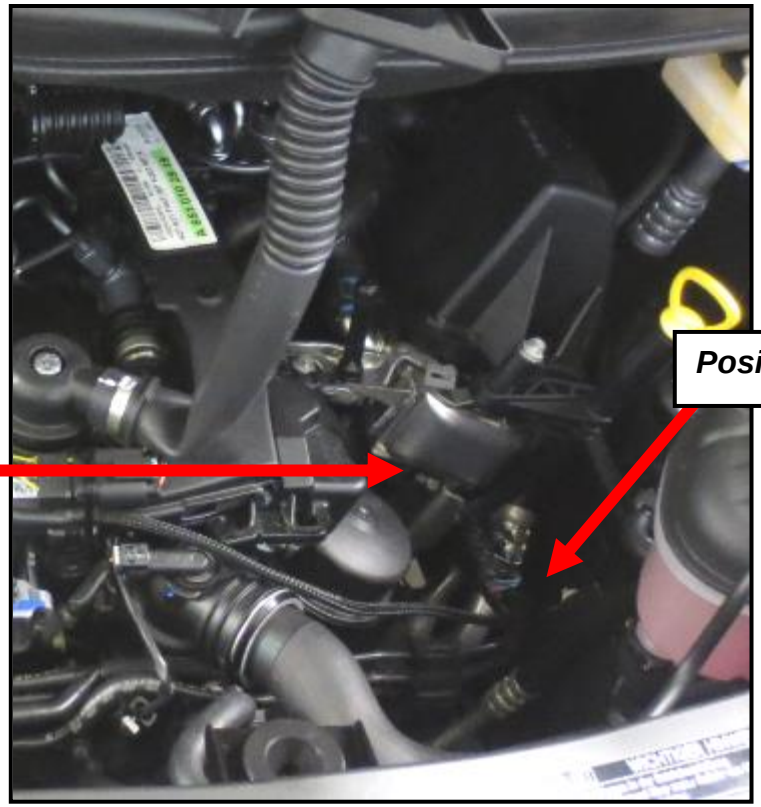


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Start routing the PowerXtra - wiring harness at the charge pressure sensor B5/6 (left engine side).

Connect standard plug of charge pressure sensor B5/6 to Brabus PowerXtra wiring harness, connect Brabus plug to charge pressure sensor.
Fixate PowerXtra – wiring harness using cable ties.





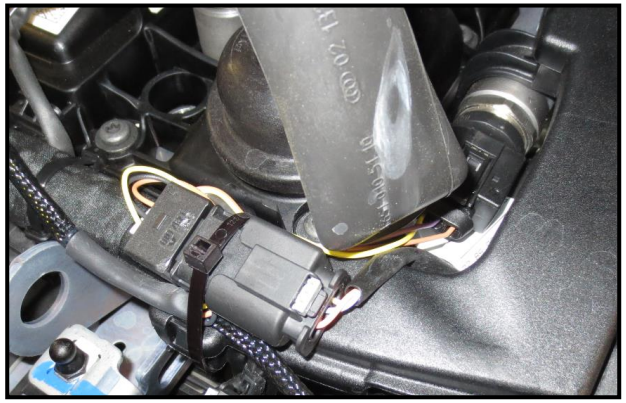
Position of charge pressure - sensor B5/6

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Route PowerXtra – wiring harness to rail pressure – sensor B4/14.

Connect standard plug of rail pressure - sensor B4/14 to Brabus PowerXtra - wiring harness, connect Brabus plug to rail pressure - sensor B4/14. Fixate PowerXtra – wiring harness using cable ties.

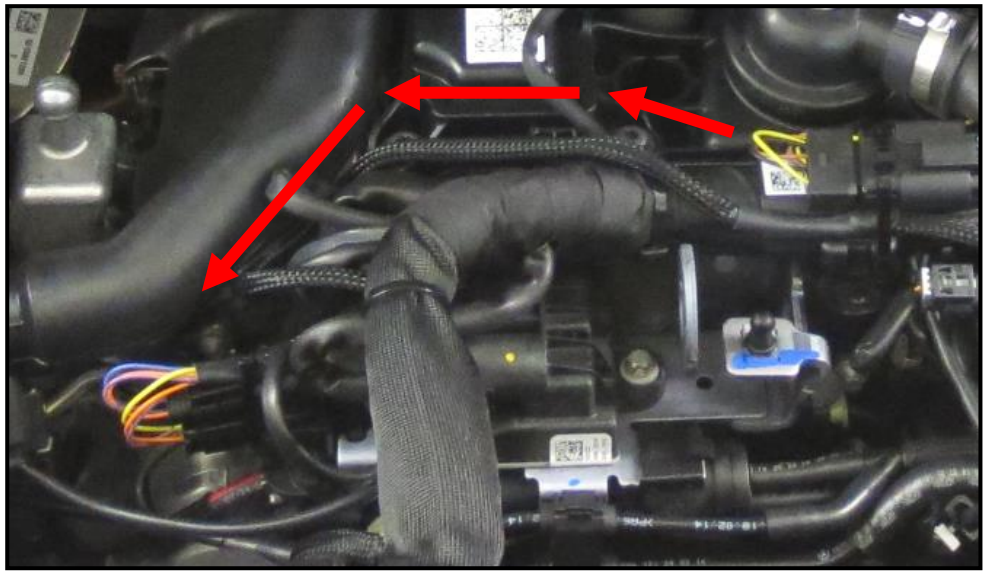


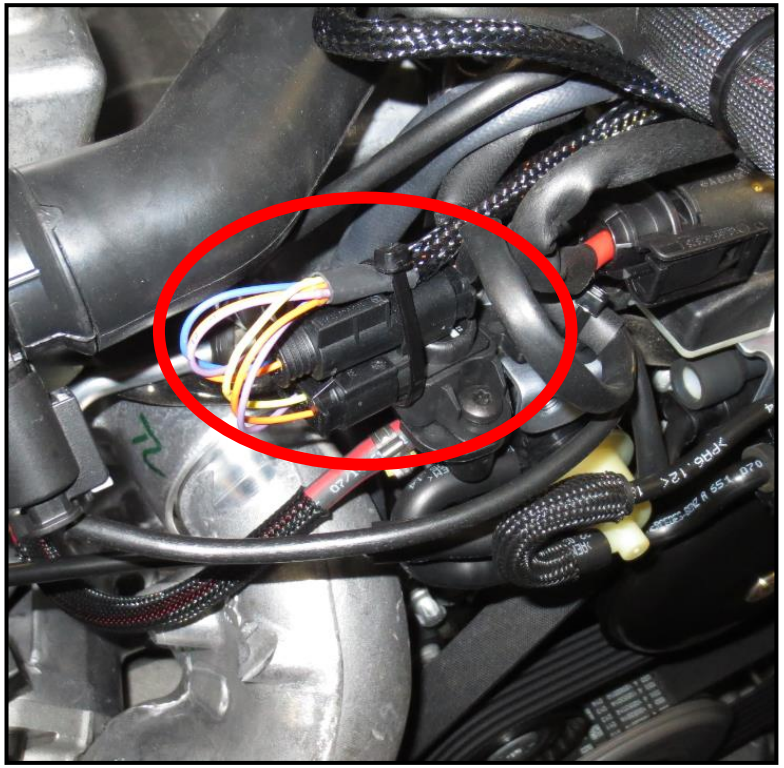




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Route PowerXtra – wiring harness to charge pressure sensor – low pressure of exhaust gas turbocharger B5/4.
Connect standard plug of charge pressure sensor B5/4 to Brabus PowerXtra wiring harness, connect Brabus plug to charge pressure sensor. Fixate PowerXtra – wiring harness using cable ties.





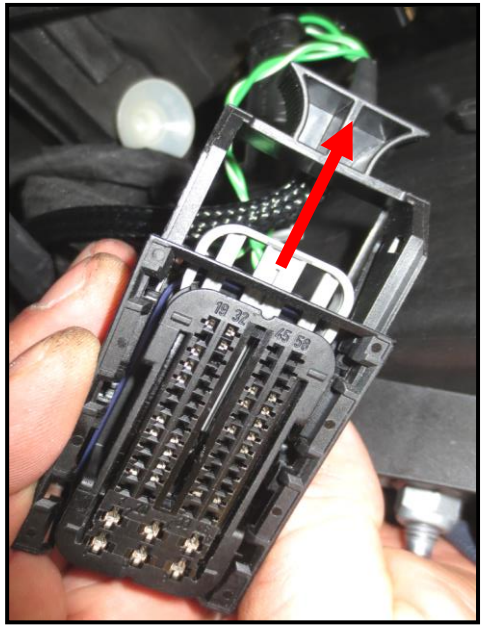
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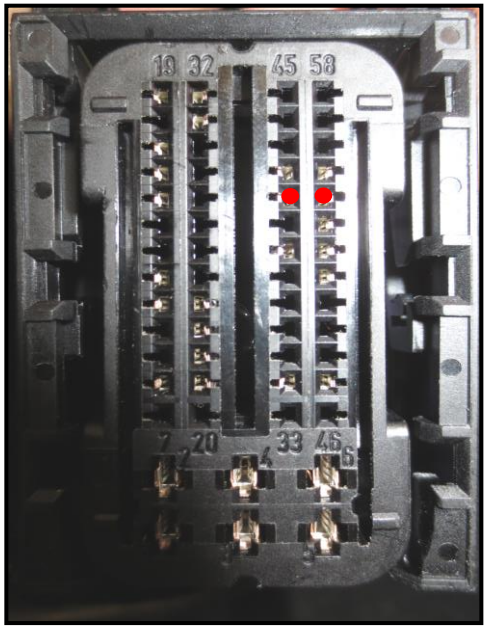
ATTENTION:

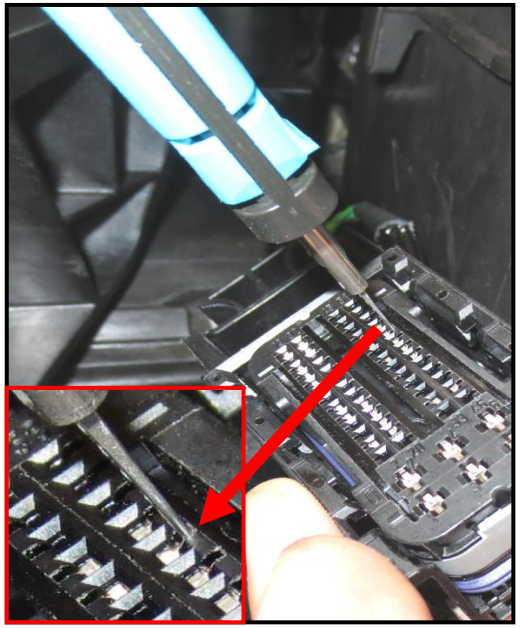
From unknown production date the ME control unit plugs are of a new version. Instead of MB part-no A0265458826 part-no A0075409181 is used on actual vehicles.

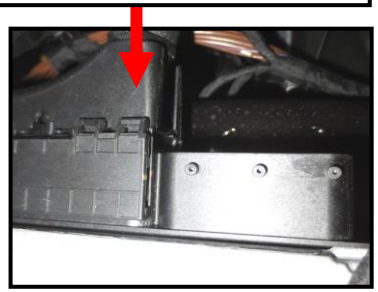
To be able to connect the CAN connections at the new control unit plug version the adapter 447-CAN-05-K is supplied in content of PowerXtra-delivery. The adapter is required on vehicles of the new version due to the different types of contacts.

Disconnect plug „F“ of engine control unit, remove plastic cover, pull plastic lock out of the control unit plug. Carefully release and remove the contacts out of slots 54 and 41 using unlocking tool supplied (CAN high & low, wire colors gn/wh & gn).









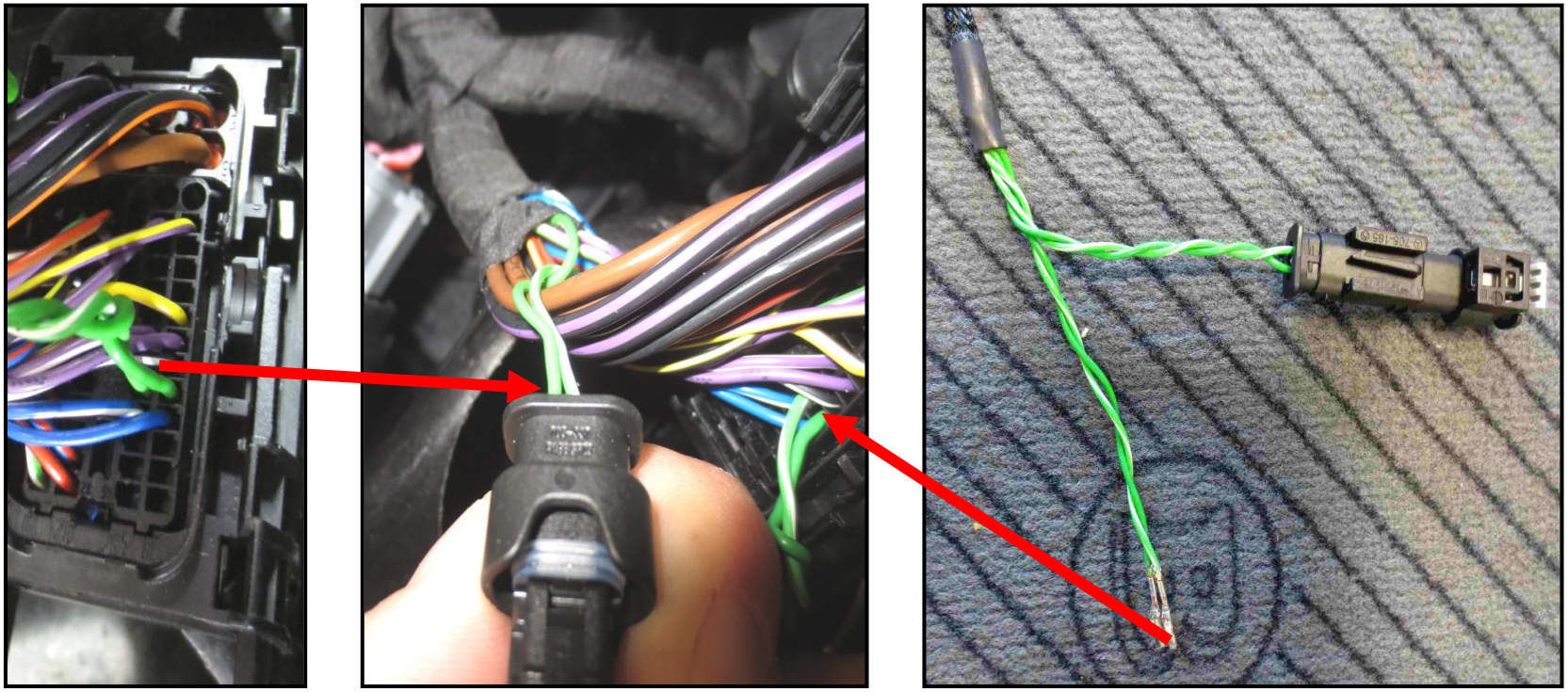
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Connection at old control unit plug:

Route wiring harness to fuse and relay - box.

Attach standard green and green/ white CAN – wires out of pins 41 & 54 to 2 – pole plug supplied. Connect plug to PowerXtra – wiring harness Make sure for correct polarity! Attach green and green7 white wires of PowerXtra – wiring harness to the free slots 41 & 54 of engine control unit – plug "F".

CAN – High = Pin 41 (wire colour green/ white)
CAN – Low = Pin 54 (wire colour green)

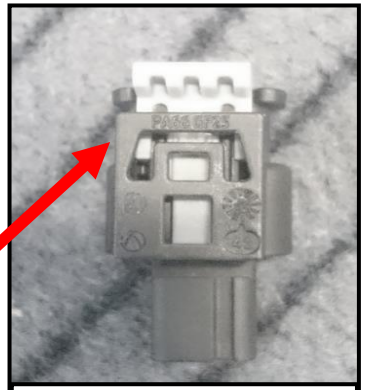


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Connection at new control unit plug version:

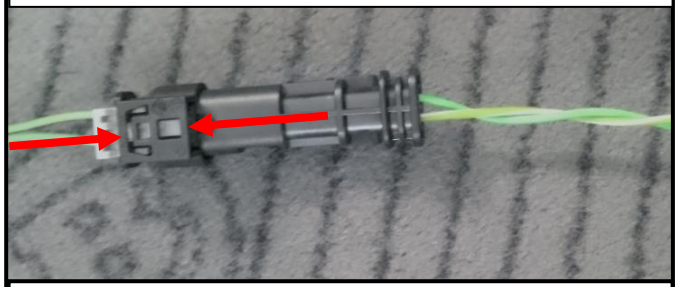
Connect CAN wire of Brabus harness tot wo-pole plug supplied with PowerXtra harness (CAN-low - pin 1, CAN high - pin2)





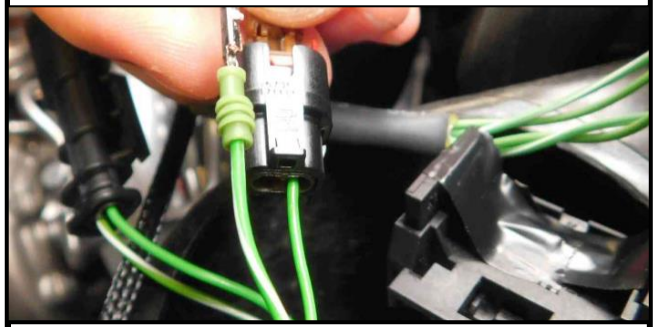
Use sealings

Connect plug to socket of Brabus adapter



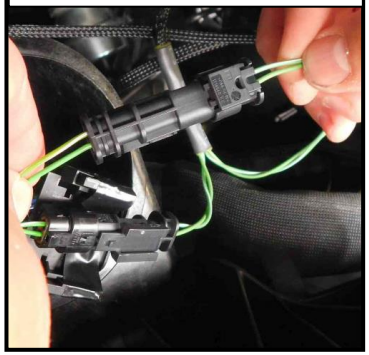
Use sealings

Connect standard CAN wires to 2-pole plug housing supplied with adapter

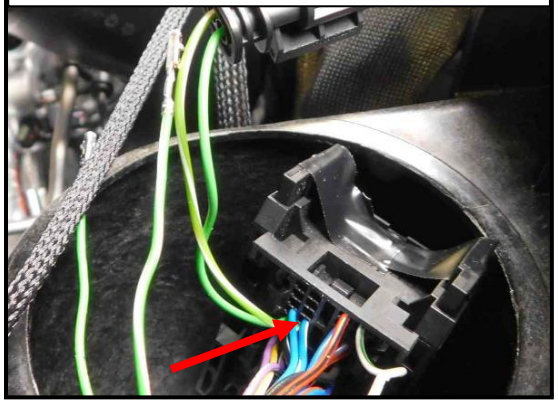


Use sealings

Connect plug to socket of Brabus wire harness



Attach adapter CAN wires to engine control unit plug

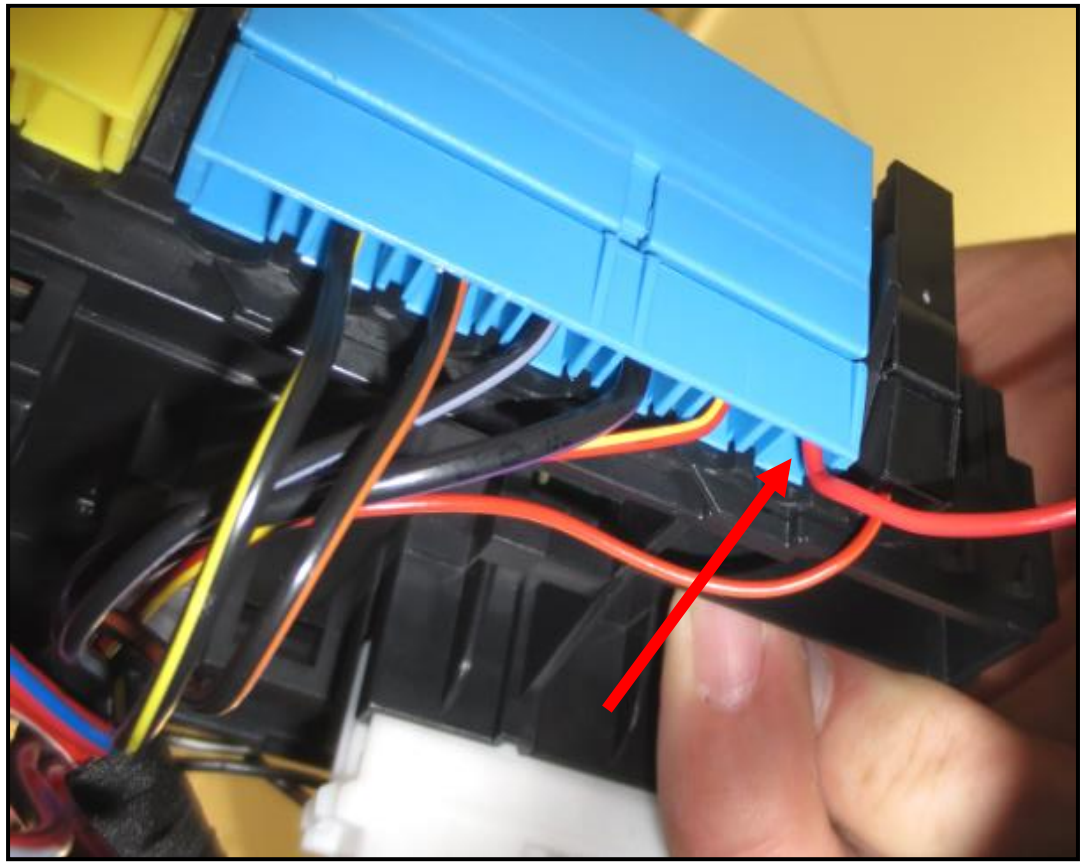


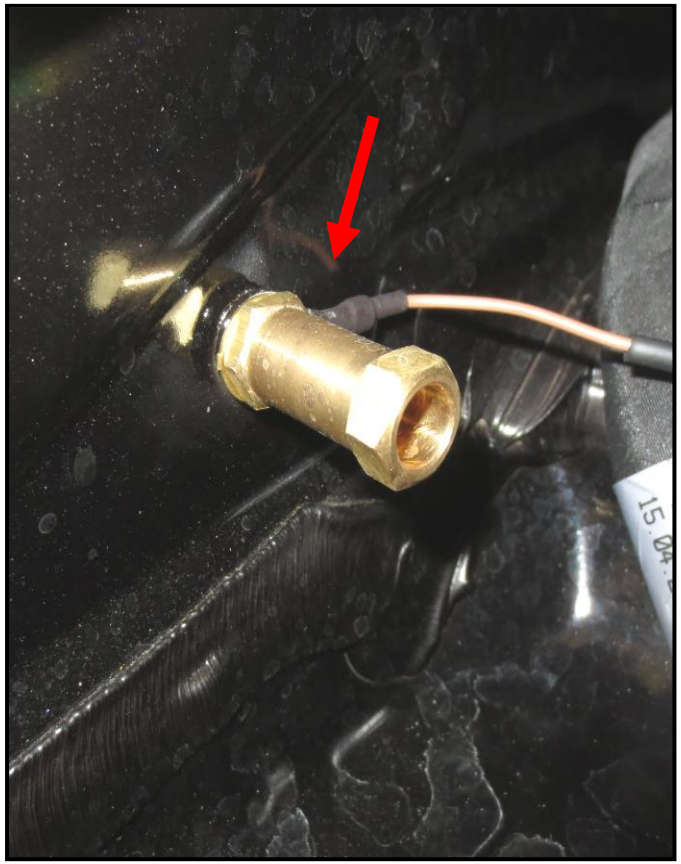
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Carefully cut the rubber grommet of the fuse and relay – box and route the red wire for constant power supply through it and into the fuse and relay – box.

Attach the fuse bracket to port shown (constant power supply) and attach the fuse supplied (5 Amps) to it.

Bolt the ground ring lug of the PowerXtra – wiring harness to the ground terminal shown (next to fuse and relay – box).

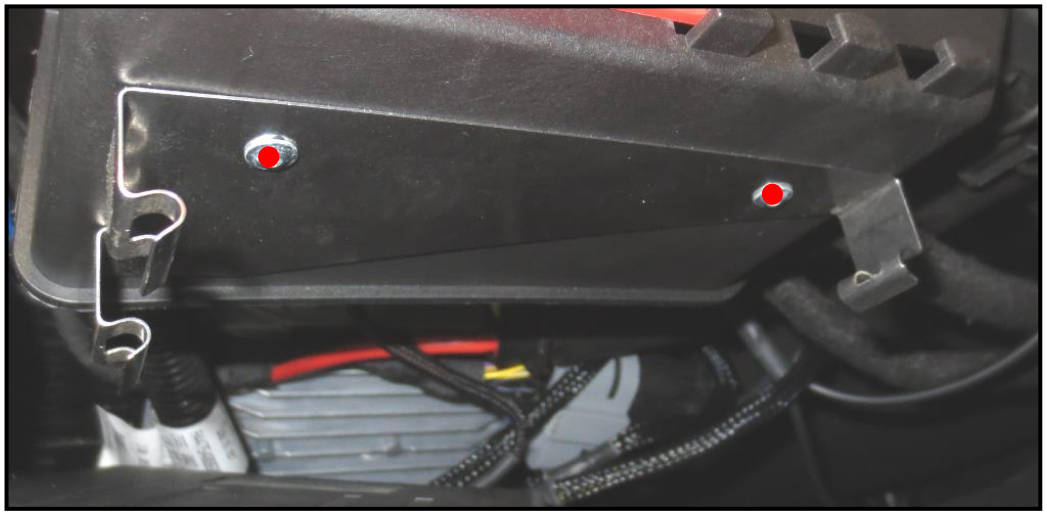




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Attach the bracket of the PowerXtra – control unit to the fuse and relay box - housing using tapping screws supplied according to image below.

We recommend to hold the bracket to the fuse and relay box – housing, mark the assembly holes using a washable marker and carefully pre - drill the mounting holes using a 1.5 mm – drill. Enlarge the holes to 3mm.
Attach and secure the main plug of the PowerXtra – wiring harness to the control unit and attach the control unit to the control unit - bracket.





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

Connect the ground wire to the car 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.

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