



*Performance-kit B25 for C117-CLA 250 CGI / W176-A 250 CGI & W246-B 250 CGI
176-B25-00*



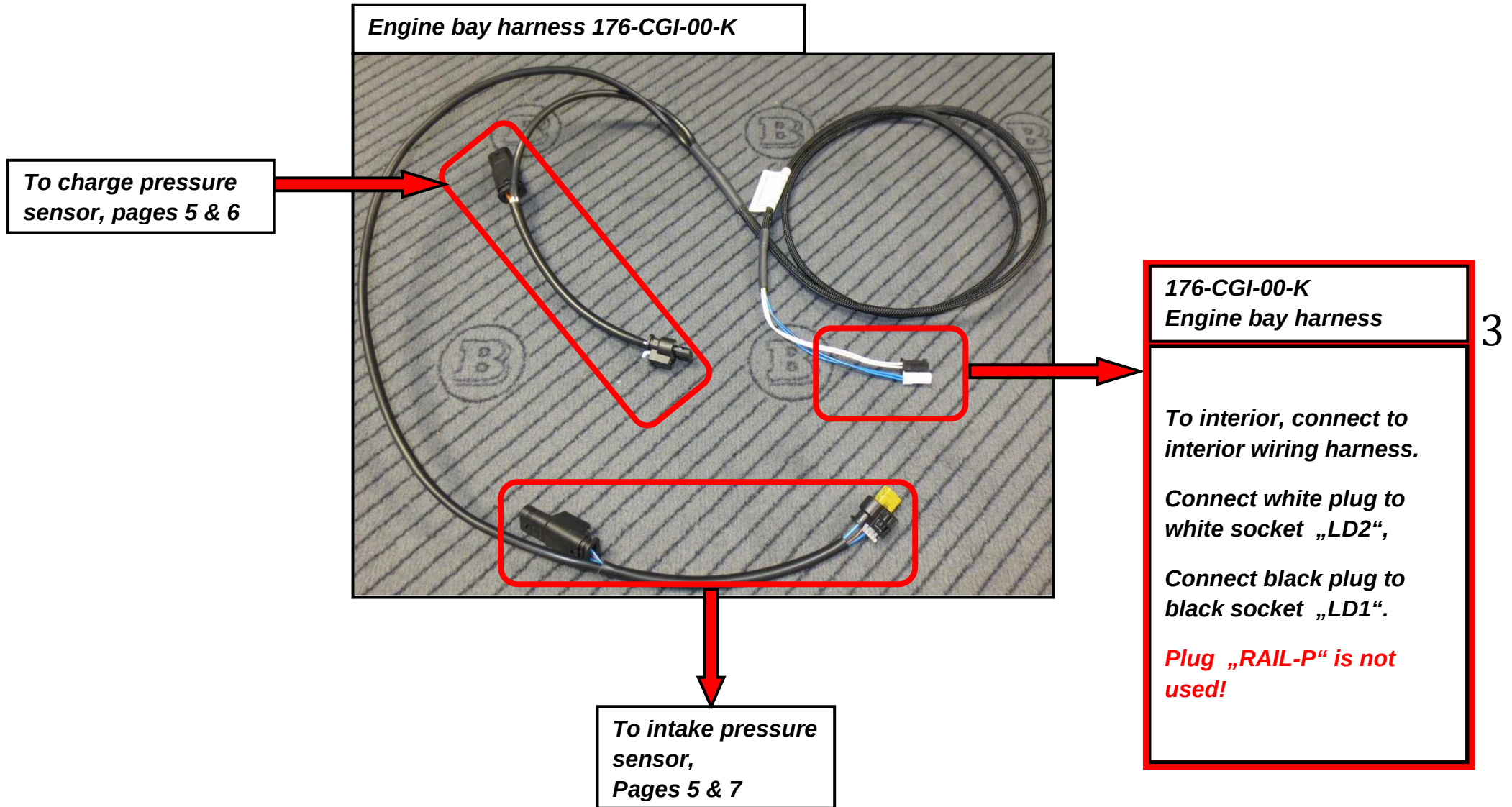
BRABUS®

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 perform the installation. Therefore you have to read and completely understand these instructions. Please check the content of the parts supplied prior to assembly.

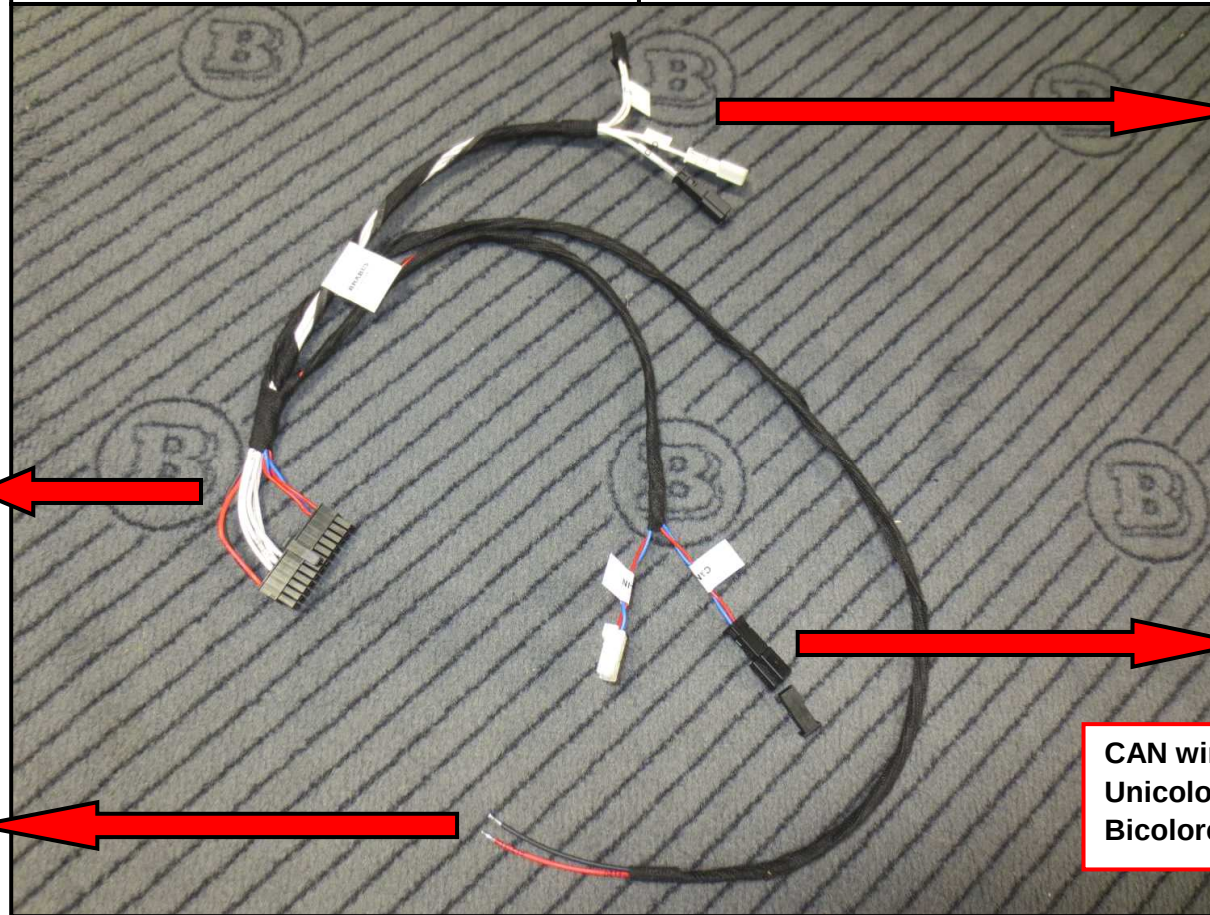
Included in delivery:

1x PowerXtra control unit	000-CGI-02
1x Interior wiring harness	176-700-00-K
1x MQS plug, 2-pole, black	
1x Engine bay harness	176-CGI-00-K
1x „Brabus“-typing	211-000-14
1x „powered by“	000-000-30
1x Type approval	
1x Fitting instructions	

Overview of connections to be established:



Interior harness 176-700-00-K



*To engine bay harness,
Pages 3 & 8*

*To powerXtra control
unit*

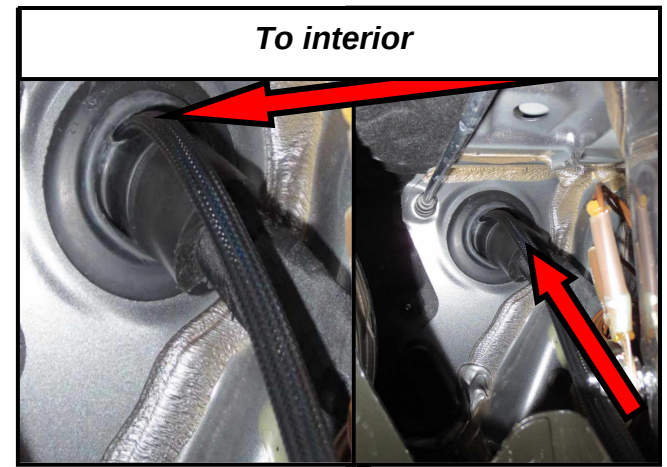
*To OBD-port, solder
brown wire parallel to
standard wire out of
Pin 4 and red wire to
standard wire out of
Pin 16.
Page 11*

*To CAN-distributor,
Page 9 & 10*

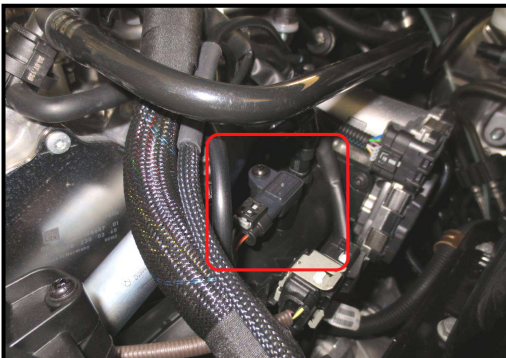
CAN wire colours may differ.
Unicolored wire is always CAN low
Bicolored wire is always CAN high.

4

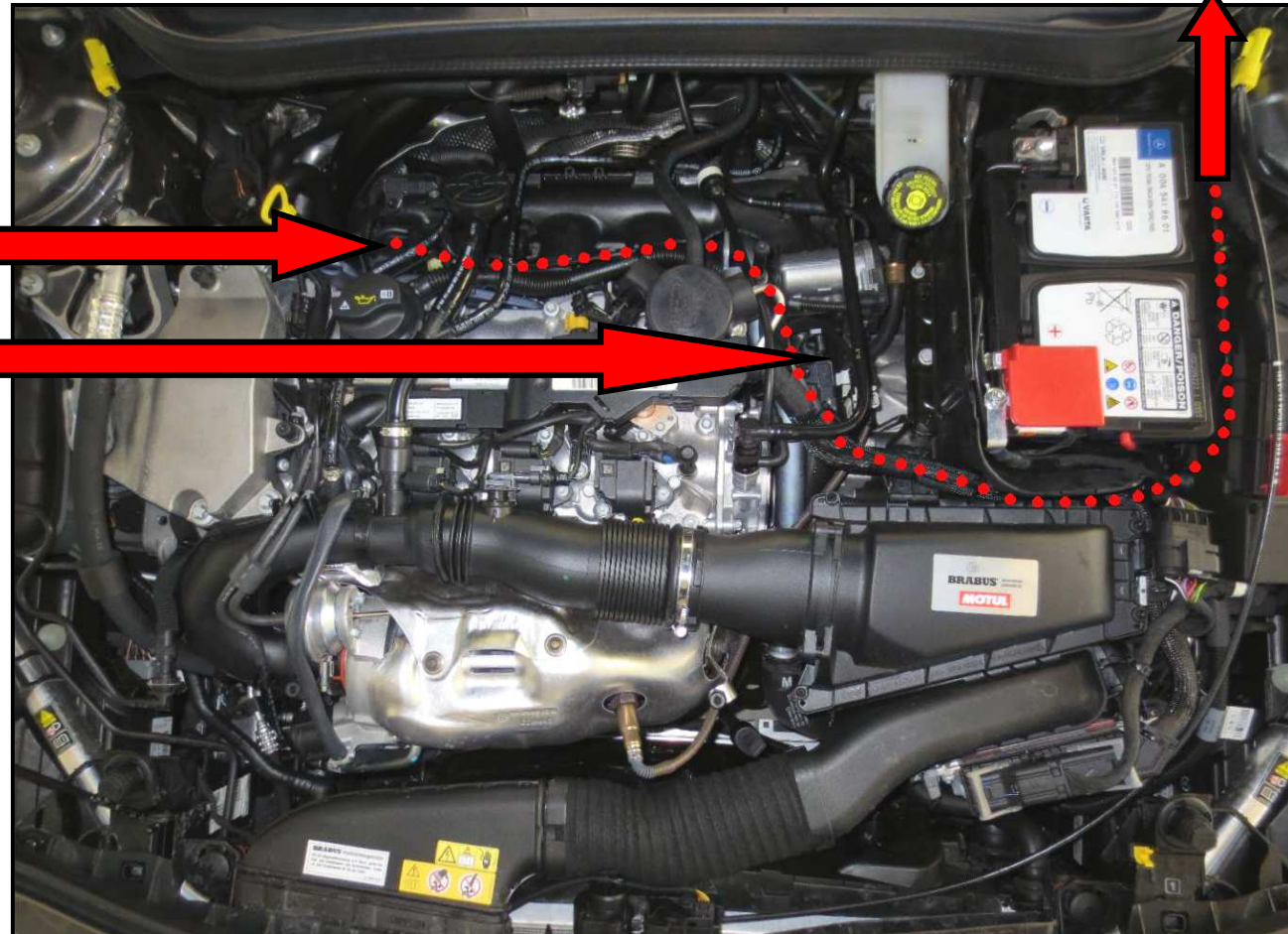
Routing of engine bay harness:



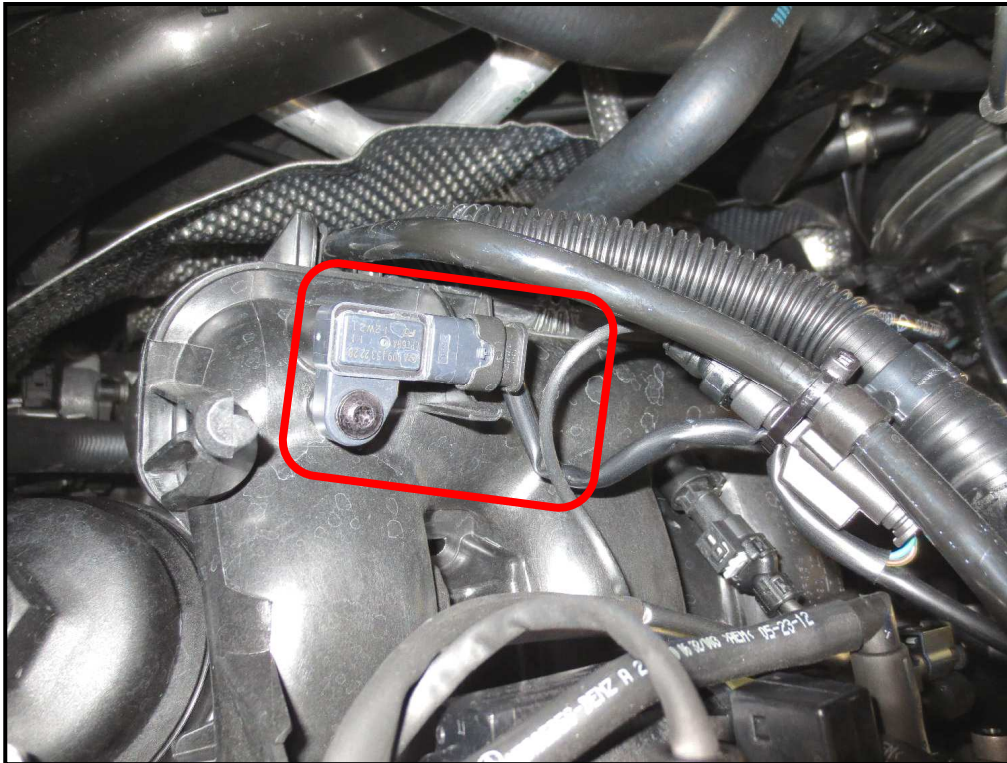
Intake pressure sensor



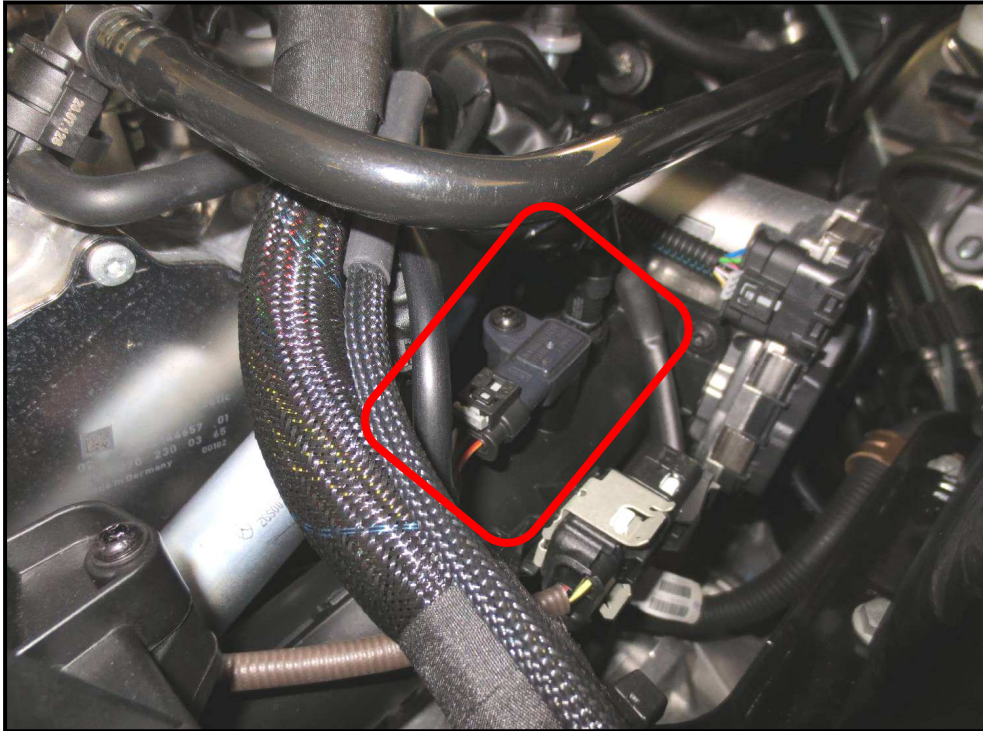
Charge pressure sensor



- Remove the engine cover in order to get access to the intake pressure and the charge pressure sensor, the car battery and the battery housing (regard to MB workshop instructions). Fold down the left lower dashboard cover and the left side dashboard cover.
- Route the engine bay harness from the intake pressure sensor to the charge pressure sensor and, according to illustration on page 5, to the standard rubber grommet behind the car battery.
- Disconnect the standard plug of the intake pressure sensor and connect it to the Brabus socket.
- Connect the Brabus plug to the intake pressure sensor..

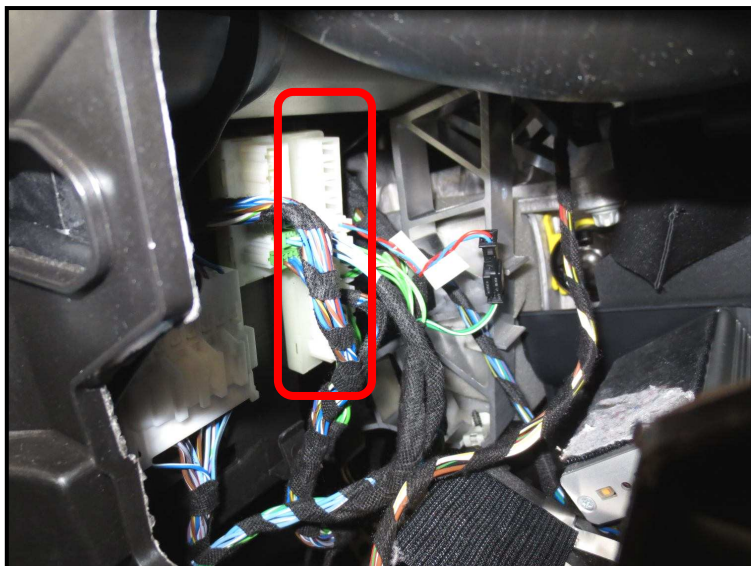


- Disconnect the standard plug of the charge pressure sensor and connect it to the Brabus socket.
- Connect the Brabus plug to the charge pressure sensor.



Fixate the Brabus engine bay harness to standard wirings using cable ties.

- Perform a small cut at the rubber grommet shown on page 5 and route the 2-pole plugs through into the car one after another.
- Re-attach the car battery, the battery housing and the engine plastic cover.
- Connect the 2-pole plugs (black and white, white wires) to the interior harness (black to black socket „LD1“and white to white socket „LD2“). The third connector “RAIL-P is not used and can be left without being connected.
- Route the black socket and the white plug (green & green-white, grey & grey-white wires) to the white CAN-distributor shown (behind left side dashboard cover).



Attention:

Connect to right distributor!

CAN connection at W 176 & W 246:

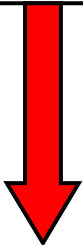
- Attach the white 2-pole plug „CAN-IN“ to a free port of the CAN-distributor (the rearmost one). The black plug of the Brabus harness is not used in this case!



9

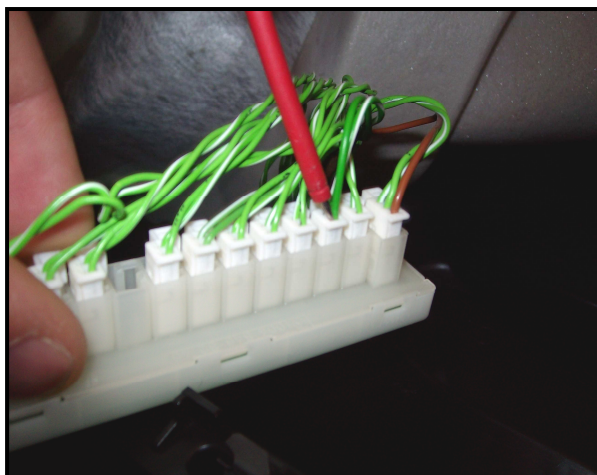
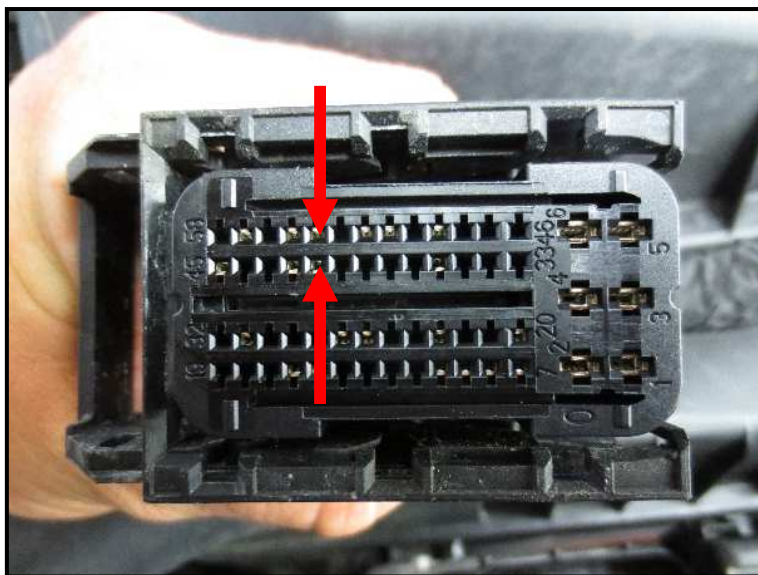
CAN connection at C 117:

- Disconnect plug “F” of the engine control unit.
- Attach a multimeter to pins 54 (CAN-low) and pin 41 (CAN-low) and adjust it to continuity test.
Take care not to damage the pins of the control unit plug while doing this!

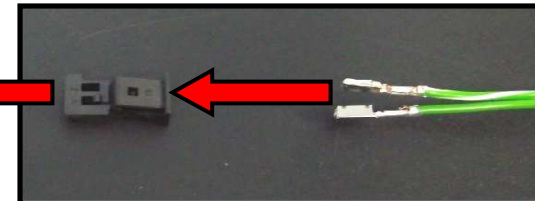


CAN connection at C 117:

- Disconnect the plugs which are attached to the white CAN-distributor one after another until the multimeter shows an interruption. As soon as the interruption appears you have found the correct port the CAN wires of Power Xtra must be attached to.



- Remove the pins out of the standard CAN plug and attach these to the black 2-pole plug supplied, take care for correct polarity (**green-white = CAN high, green = CAN low, grey-white = CAN high, grey = CAN low**). Connect the black plug (CAN-in) to the black socket of the wiring harness and attach the white plug (CAN-out) of the Brabus harness to the free port the standard plug has been attached to before.



- Solder the power supply wires of the Brabus harness (red and brown) parallel to the OBD port wires (red to standard wire out of Pin 16, brown to standard wire out of Pin 4).
- Connect the main plug of the Brabus harness to the PowerXtra control unit.



- Make sure the soldered areas were properly isolated in order to avoid damages of the car's electrical equipment!
- Adhere the PowerXtra control unit to the plastic housing of the parking brake release handle using velcro tape supplied (from behind).
- Check the fault store for faults which may have occurred during the kit has been assembled and perform a test-drive.