



*Performance-kit D2 / C117-CLA-, W176-A-& W246-B 200 CDI
176-720-210_220*



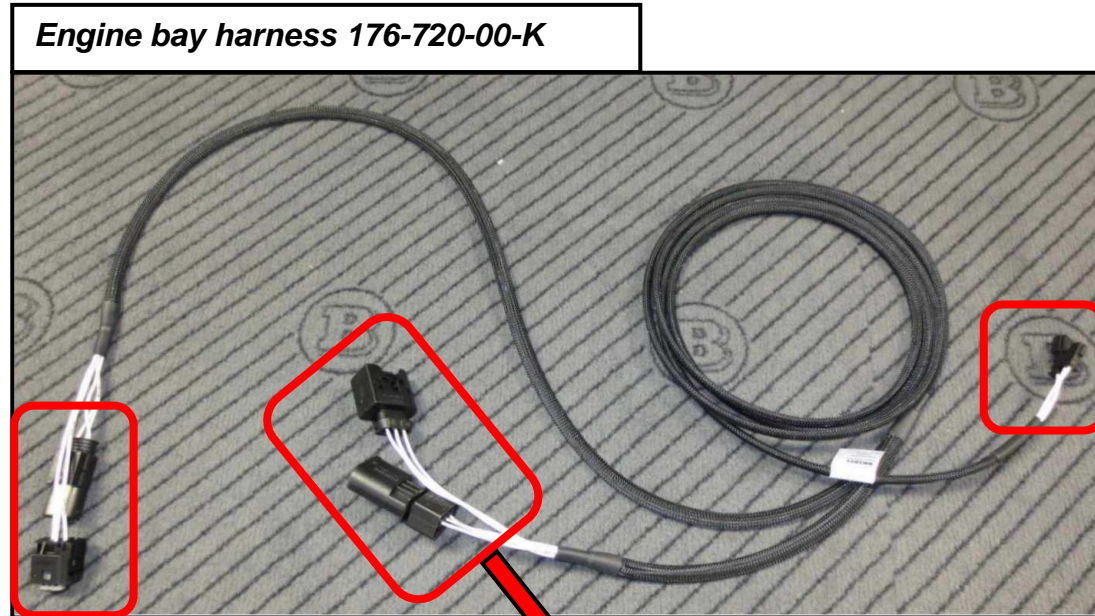
BRABUS®

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	176-720-00-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:



Engine bay harness 176-720-00-K

To charge pressure sensor, pages 5, 6

To rail pressure-sensor, pages 5, 7

176-700-00-K Engine bay harness

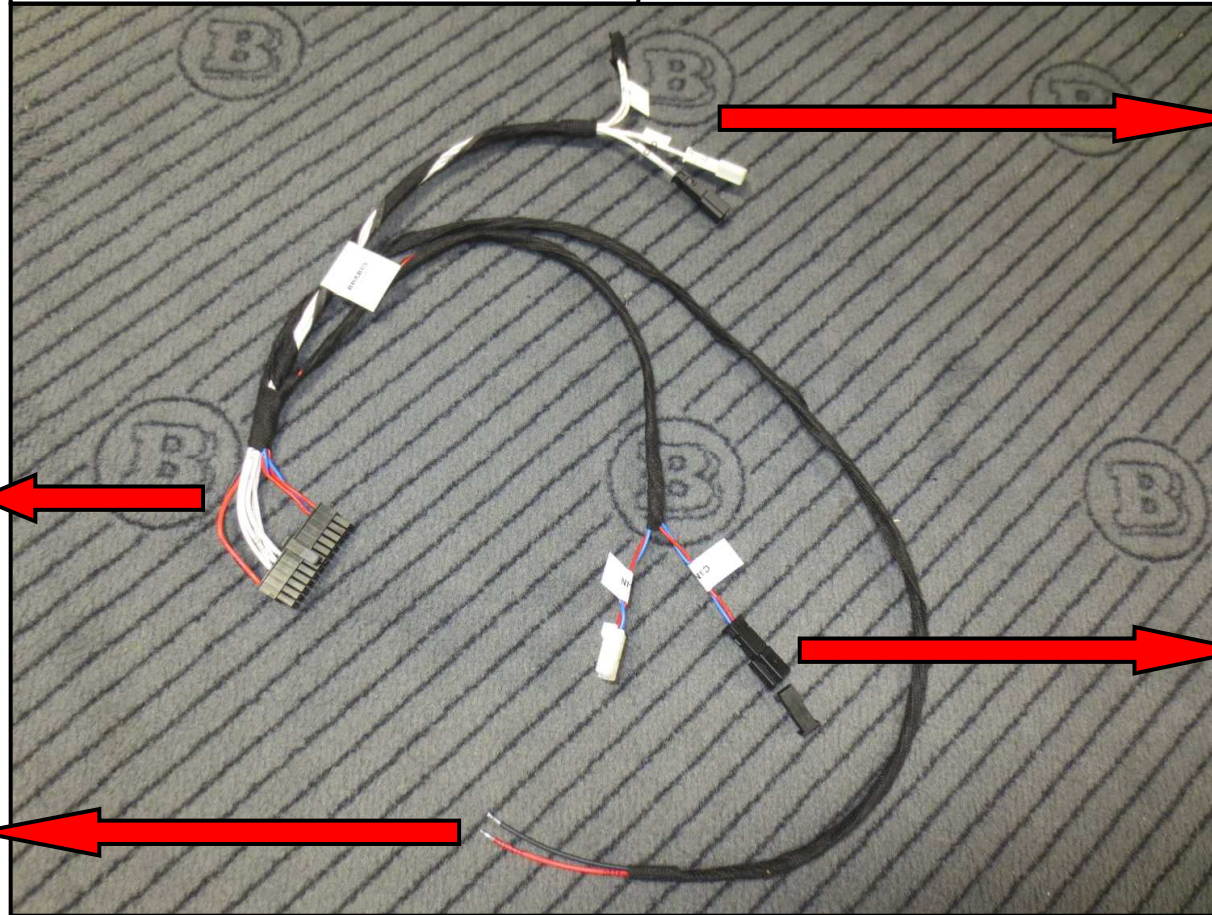
To interior, connect to interior wiring harness.

Connect black to black plug "Rail-p",

Connect black plug to socket "LD1".

Plug „LD-2“ is not used!

Interior harness 176-700-00-K



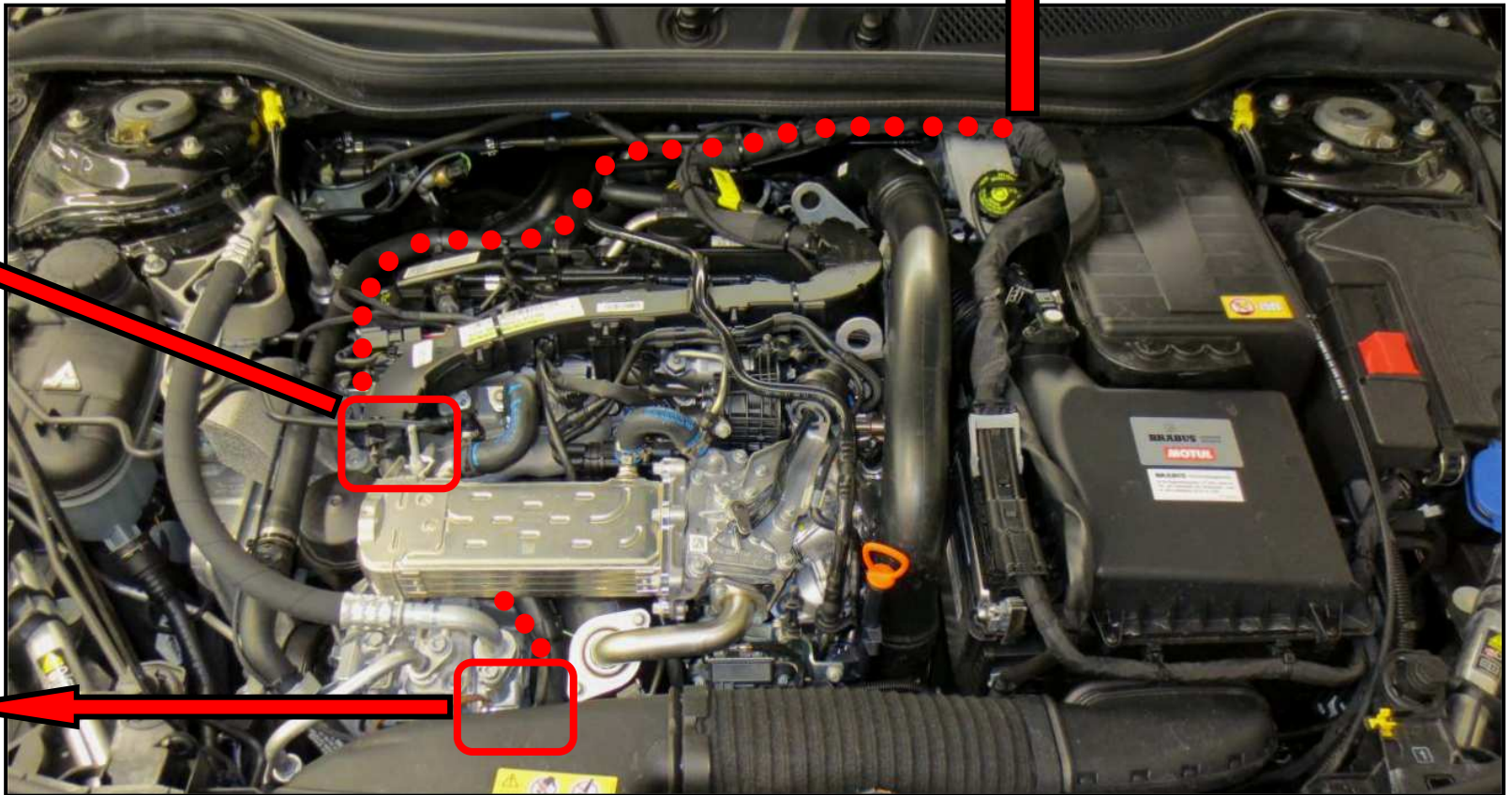
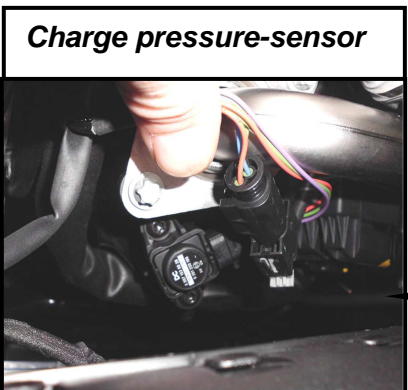
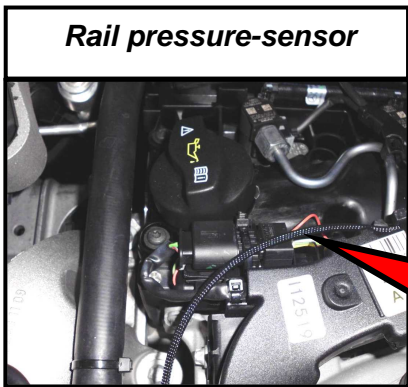
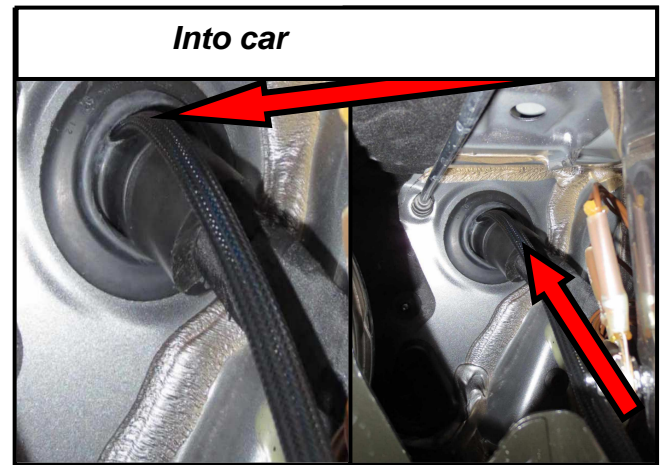
**To engine bay harness,
pages 5, 8**

**To powerXtra control-
unit**

**To OBD port,
solder brown parallel
to the wire out of pin
4, red to the wire out
of pin 16.
Page 12**

**To CAN-distributor
pages 9, 10, 11**

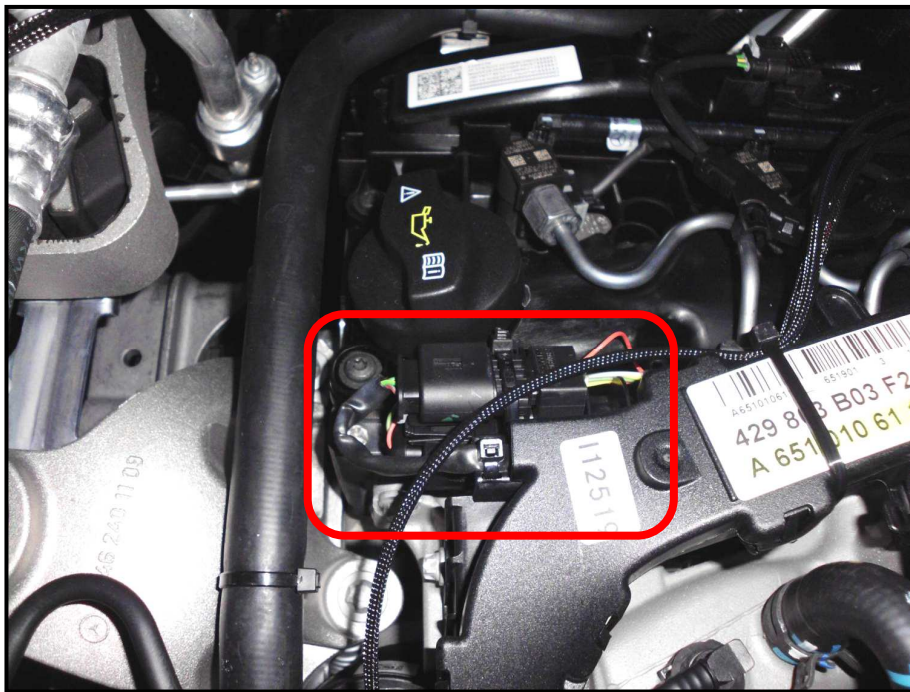
Routing of engine bay harness:



- Remove the engine plastic cover in order to get access to the sensor plugs of the charge-and rail pressure sensor and the car battery including it's housing according to Mercedes-Benz workshop instructions. Also remove the left lower dashboard cover and the left dashboard cover.
- Route the part of the engine bay harness with the two plug pairs for charge-and rail pressure to the rubber grommet that leads into the car (according to image on page 5).
- Disconnect the standard plug of the charge pressure-sensor and connect it to the Brabus harness.
- Connect the Brabus plug to the charge pressure-sensor.

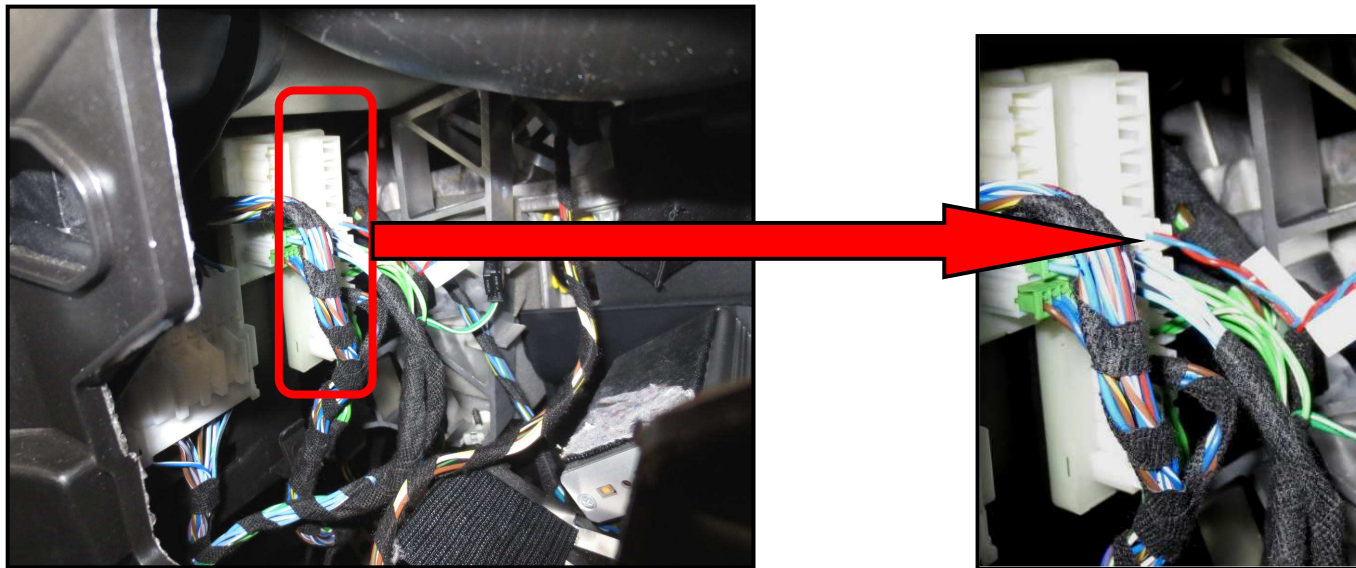


- Route the wiring harness to the rail pressure-sensor.
- Disconnect the standard plug of the rail pressure-sensor and connect it to the Brabus harness.
- Connect the Brabus plug to the rail pressure-sensor.



Fixate the Brabus harness to standard wirings using cable ties.

- Cut a **small** hole for the wiring harness to be led through into the standard rubber grommet (according to fig. 5). Route one after another the 2-pole plugs through the rubber grommet into the car.
- Fixate the engine bay harness to standard wirings, make sure the wiring harness was securely routed.
- Re-attach the car battery and it's housing and the engine cover.
- Connect the plugs which were routed into the car to the connectors of the interior harness (2-pole black plug and 2-pole black socket) to the interior harness connectors. Connect the black plug to the black socket "LD1" and the black socket to the plug „Rail-p“. *Connector "LD2" of the interior harness is not used.*
- Route the black and the white plug (red and blue wires) of the Brabus harness to the CAN-distributor shown (fig. below).



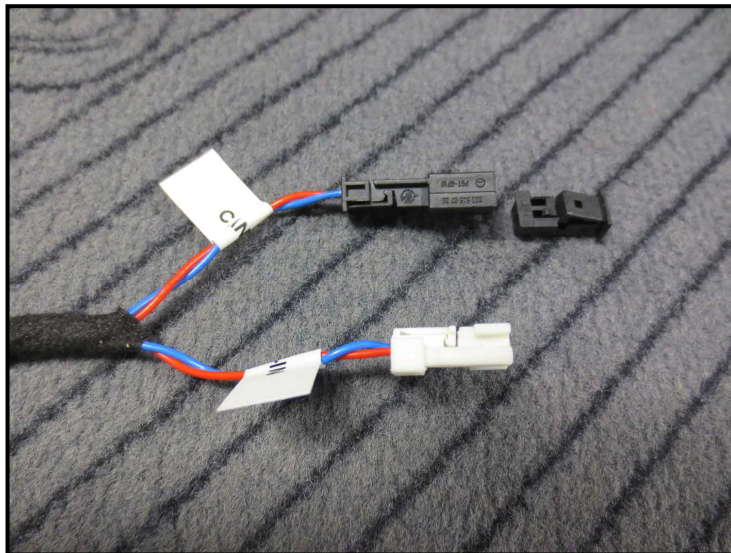


Attention:

The way the CAN-connectors are attached differs between the performance-kits available. At article-no. 176-720-210 (without Vmax enhancement) the CAN connector only is attached to one free port of the white CAN-distributor, at article-no. 176-720-220 (Vmax 220 km/h) please establish the CAN-connection according to instructions on pages 10, 11!

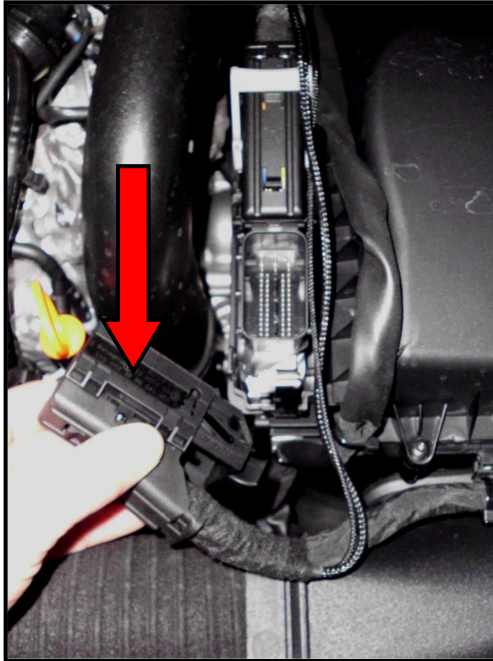
CAN-connection at 176-720-210

- Attach the white, 2-pole plug to a free port of the white CAN-distributor. The black plug of the Brabus harness is not used in this case and remains not connected.



CAN-connection at 176-720-220:

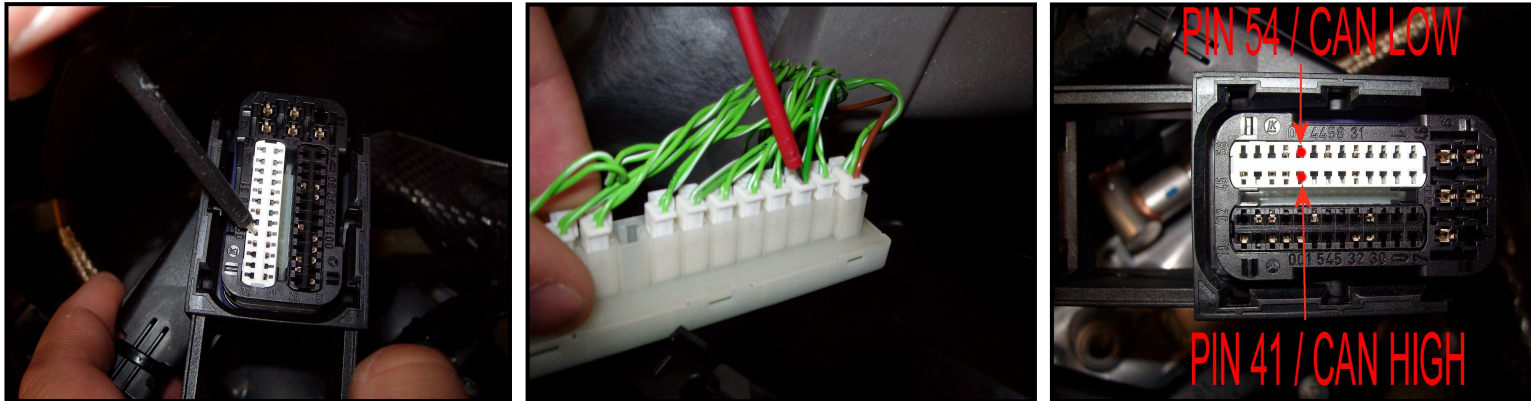
- Disconnect plug „F“ of the engine control unit within the engine bay.



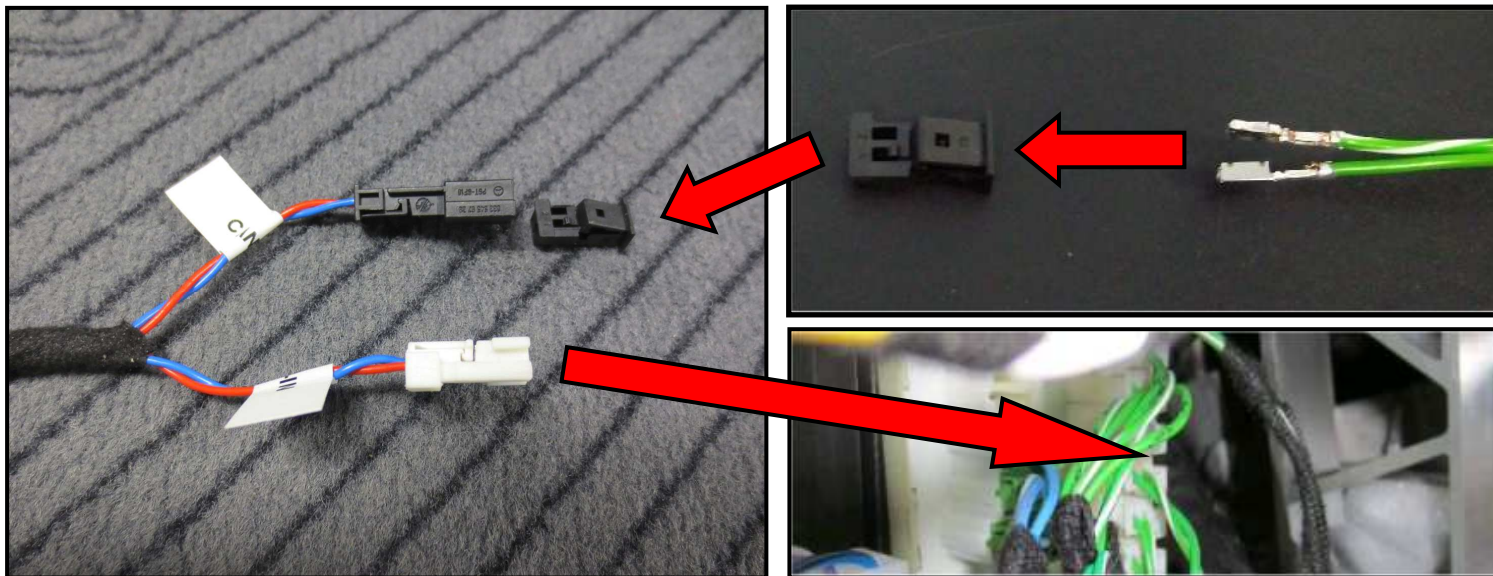
- Attach a multimeter to pins 54 and Pin 41 of plug “F” and switch the multimeter to resistance measurement.
Do not damage the Pins of the control unit-plug!
- Remove the CAN plugs of the white CAN-distributor one after another until the multimeter shows an interruption. When this is the case you have found the plug the Brabus harness gets connected to.



CAN-Anschluss bei 176-720-220:



- Clip the pins out of the standard CAN-plug and attach these to the 2-pole black plug supplied (take care for correct polarity, **red to green/ white and blue to green**). Connect the 2-pole black plug of the Brabus harness to the 2-pole black Socket ("CAN-OUT") of the Brabus harness and the 2-pole white plug of the Brabus harness to the free port of the CAN-distributor.



- Solder the red power supply wire of the Brabus harness to the standard wire out of pin 16 of the OBD port and the black ground wire of the Brabus harness to the standard wire out of pin 4 of the OBD port.
- Connect the main plug of the Brabus harness to the performance-kit control unit.



- In order to prevent damages of the electrical equipment of the car, please carefully isolate the soldered areas.
- Adhere the powerXtra-control unit to the parking brake release housing using velcro tape supplied.
- Check and clear the fault store of the car and perform a test-drive.



Important hint:

Cars built after April 4th, 2013 are equipped with another type of charge pressure sensor.

If the Brabus wiring harness cannot be connected to the charge pressure sensor, please connect the wiring harness under usage of the additional adapter which is included in delivery of the performance-kit.

