



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.
Dismantle standard components according to Mercedes-Benz workshop instructions (WIS).*

*Prior to installation please check the content of the supplied parts as detailed below.
Color coding according to IEC 60757, allocation on page 7.
Regard to the Mercedes-Benz electric diagram „control unit petrol direct injection“ (WIS-document **pe07.08-p-2101-97sem**).*



222-B40-700-XXX

Included in Brabus delivery:

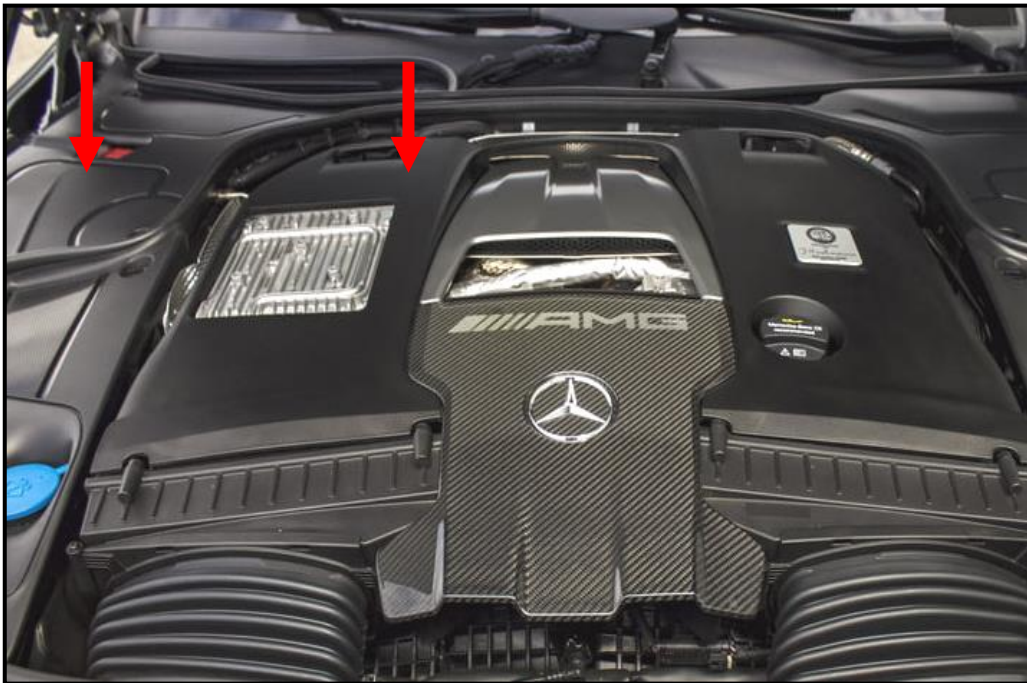
- | | |
|--------------------------------|---------------|
| 1x PowerXtra control unit | 000-CGI-02 |
| 1x Wiring harness S63/S560 | 222-740-05-K, |
| consisting of: | |
| 1x Interior wiring harness | |
| 1x Engine bay wiring harness | |
| 1x Compact plug, 4-pole, black | |
| 1x MQS-plug, 4-pole, yellow | |
| 1x MQS-socket, 4-pole, yellow | |
| 1x MQS-socket, 2-pole, white | |
| 1x MQS-plug, 2-pole, black | |
| 1x Fuse 5A | |
| 1x Unlocking tool | 190-740-05-W |
| 1x Brabus chrome lettering | 211-000-14 |
| 1x Letterings "powered by" | 000-000-30 |
| 1x Edge protection, ~5cm | |
| 1x Tüv-certificate | |





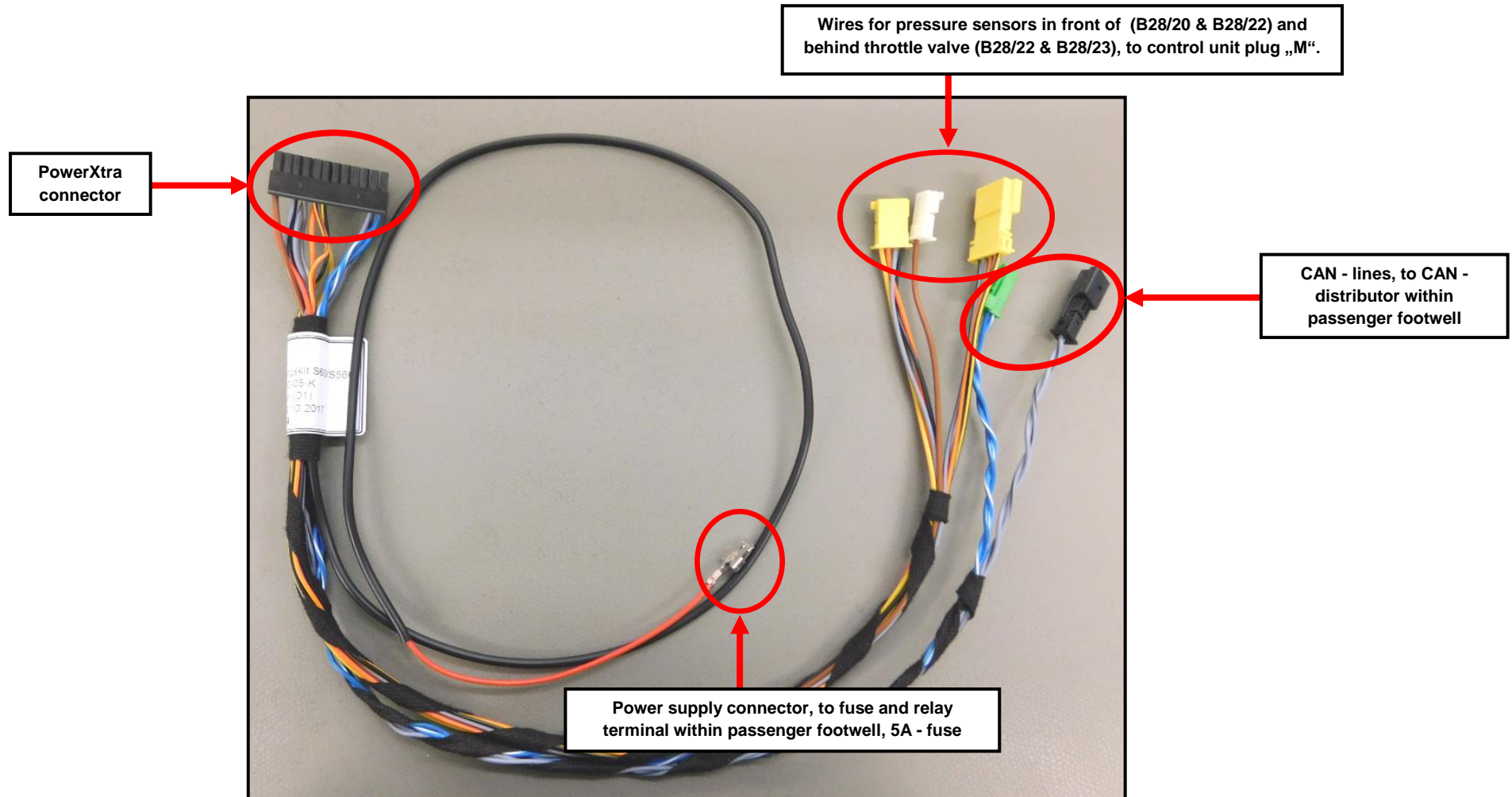
Preparation:

- Open bonnet, disconnect the ground line of the vehicle battery within boot compartment.
- Disassemble the engine plastic cover, the right side plastic cover (driving direction) and the right side supporting strut.
- Disassemble the right lower dashboard cover and the flooring cover to get access to the main electrics within the passenger footwell.



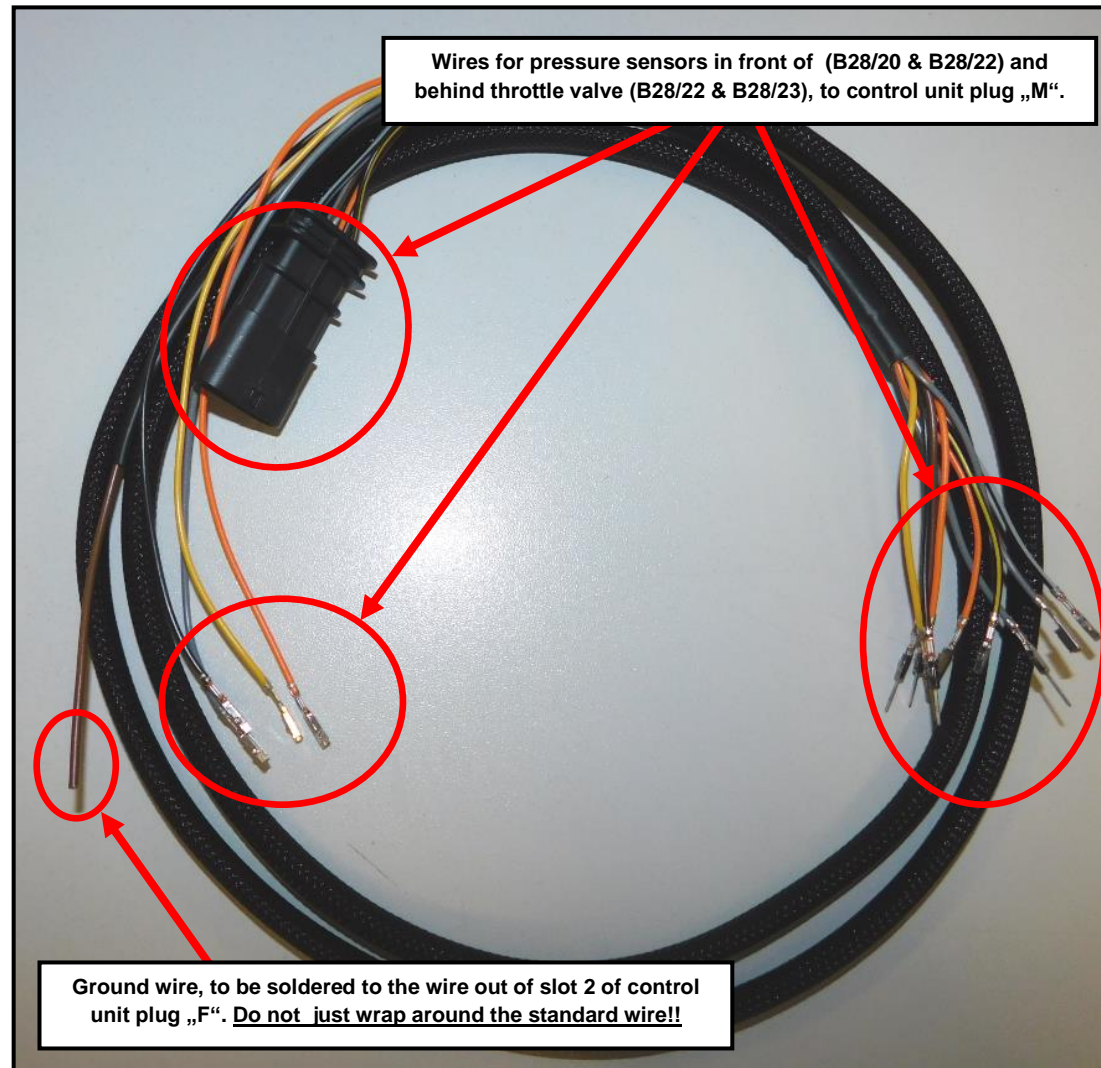


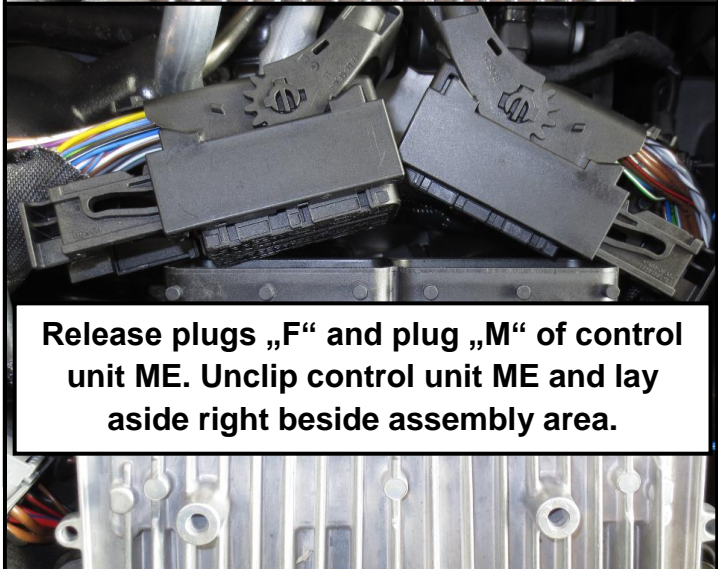
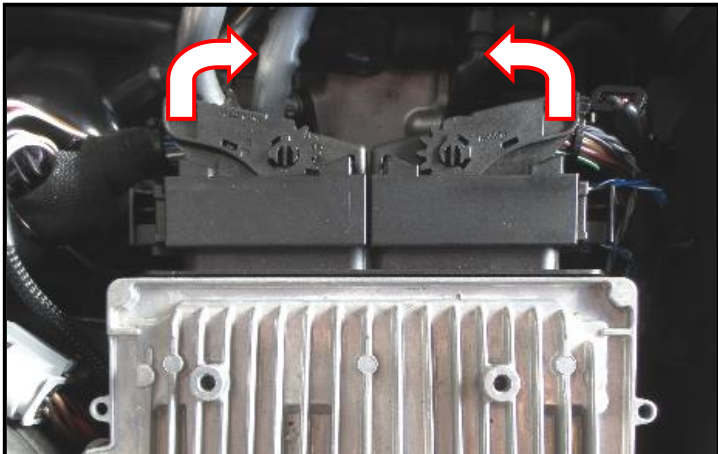
Overview of electrical connections of interior wiring harness:





Overview of electrical connections of engine bay wiring harness:

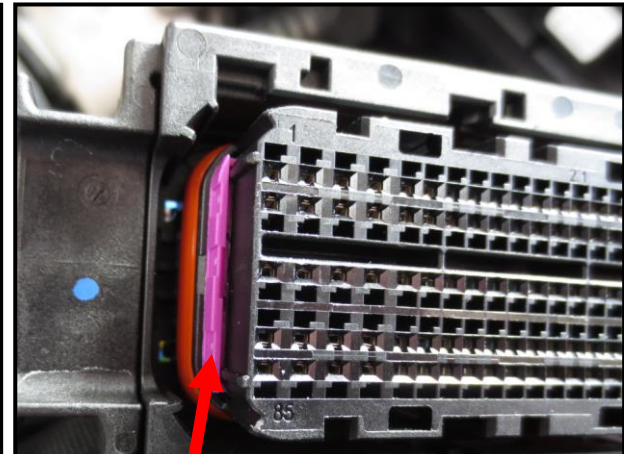
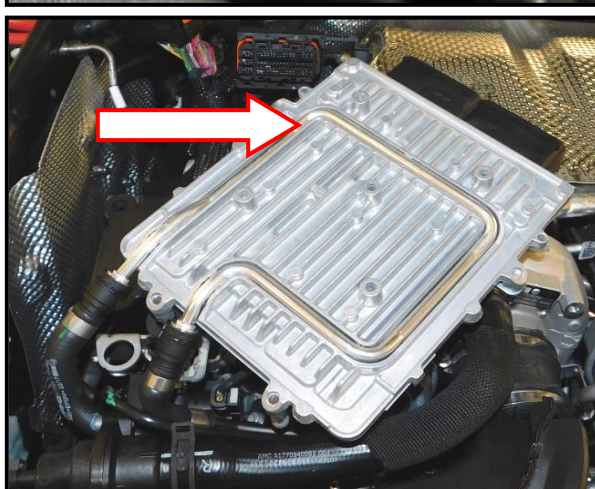




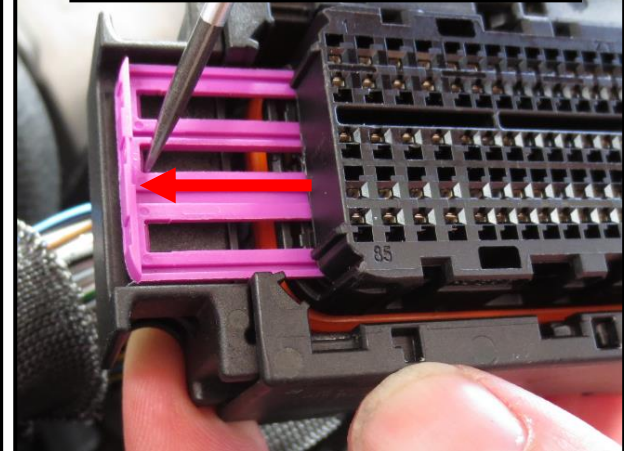
Release plugs „F“ and plug „M“ of control unit ME. Unclip control unit ME and lay aside right beside assembly area.



Carefully release at position shown and remove plastic caps of plugs „F“ and „M“.



Release and remove locking devices of both plugs





- Release and remove standard wires marked of plug „M“ (slots 40, 33, 55, 32) one after the other using unlocking tool supplied and attach to 4-pole plug supplied (according to illustration).

**Do not release all 4 wires at once as each two wires are of the same color coding - risk of interchanging!
Make sure not to damage/ deform the pins when unlocking!**

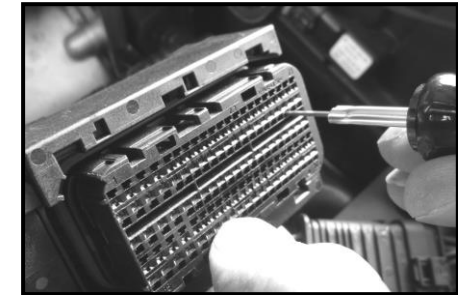
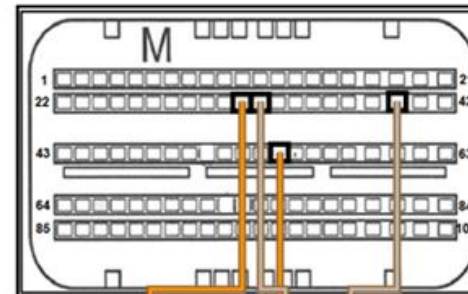
Unlock the following wires of plug „M“:

- Left pressure sensor behind throttle valve (B28/22), BN/GY, slot 40
- Left pressure sensor in front of throttle valve (B28/20), BN/GY, slot 33
- Right pressure sensor behind throttle valve (B28/23), BN/OG, slot 55
- Right pressure sensor in front of throttle valve (B28/21), BN/OG, slot 32

Attach the wires to 4-pole plug as follows, make sure for proper latching!

- Wire out of slot 40 (BN/GY) to slot 1
- Wire out of slot 33 (BN/GY) to slot 2
- Wire out of slot 55 (BN/OG) to slot 3
- Wire out of slot 32 (BN/OG) to slot 4

Connect 4-pole plug to 4-pole socket of Brabus engine bay wiring harness.



Kabelfarben nach IEC 60757 Wire colors according to IEC 60757	
Braun (Brown)	BN
Rot (Red)	RD
Orange	OG
Gelb (Yellow)	YE
Grün (Green)	GN
Blau (Blue)	BU
Violett (Purple)	VT
Grau (Grey)	GY
Weiß (White)	WH
Rosa (Pink)	PK
Türkis (Cyan)	TQ

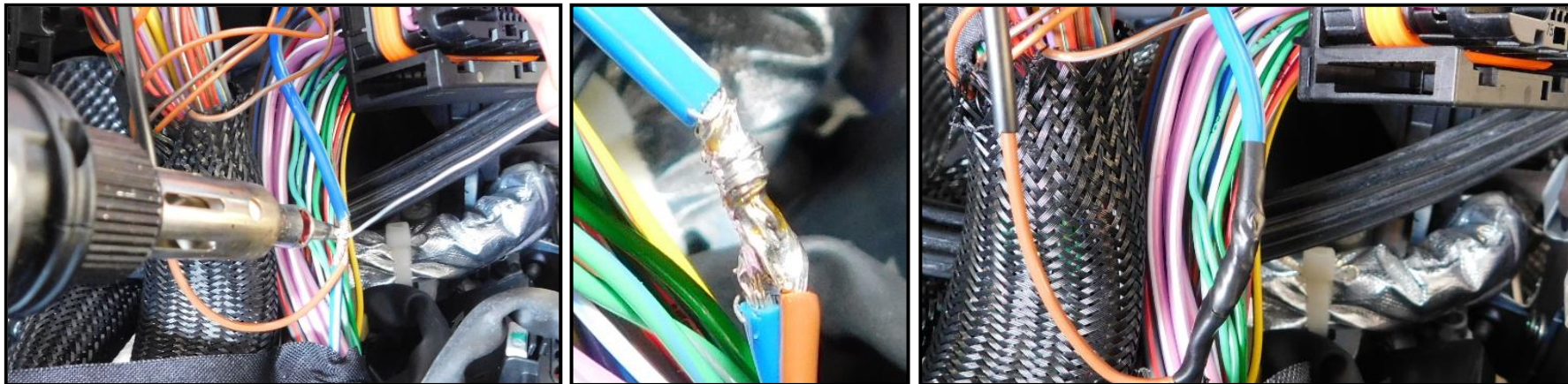
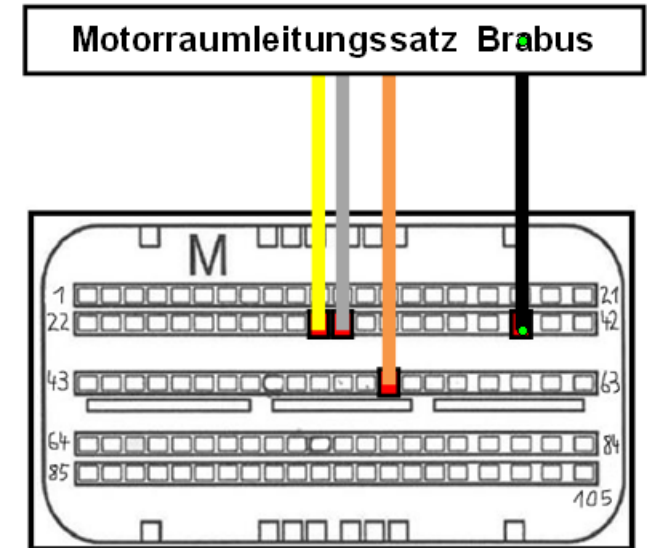


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Attach wires of Brabus engine bay wiring harness to the red marked slots (40, 33, 55, 32) of control unit plug "M".

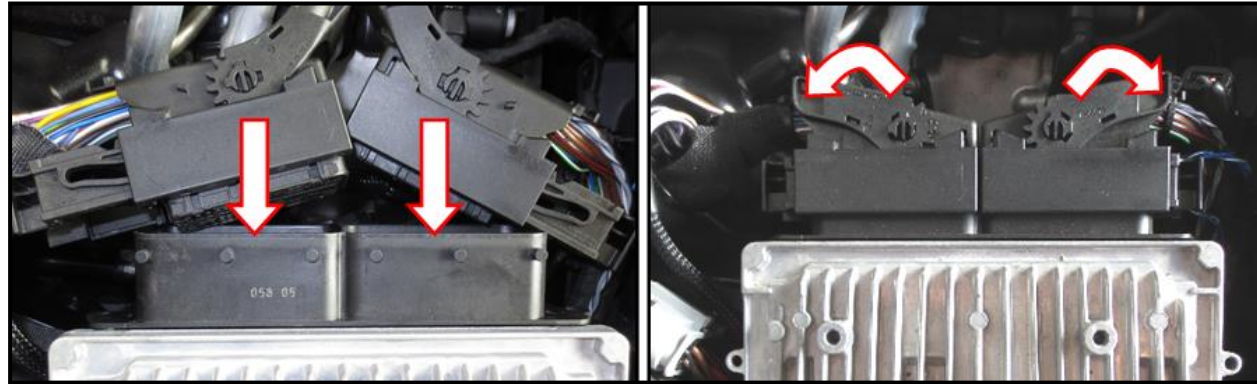
Attach the wires as follows:

- BK to slot 40
 - GY to slot 33
 - OG to slot 55
 - YE to slot 32
- **Urgently make sure for proper latching of wires within control unit plug „M“!
Re-attach the plug locking and re-assemble plug „M“.**
- **Solder brown wire of Brabus engine bay wiring harness parallel to the wire out of slot 2 of plug „F“.** Do not just wrap the wire around the standard wire!
Sufficiently isolate the soldered area.
Do not connect to any other ground terminal! Re-attach the plug locking and re-assemble plug „M“.

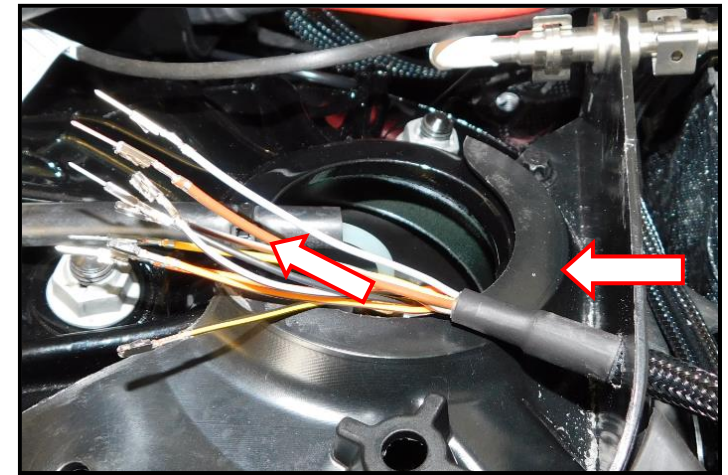
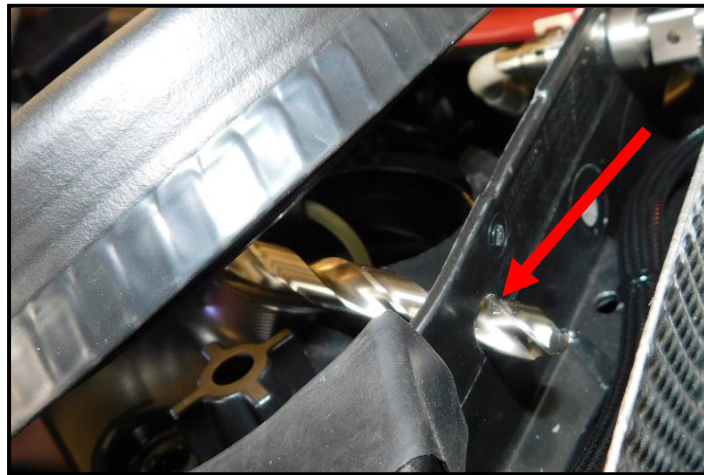




- **Attach the completed plugs back to control unit ME and lock them. Clip control unit ME back into the brackets.**

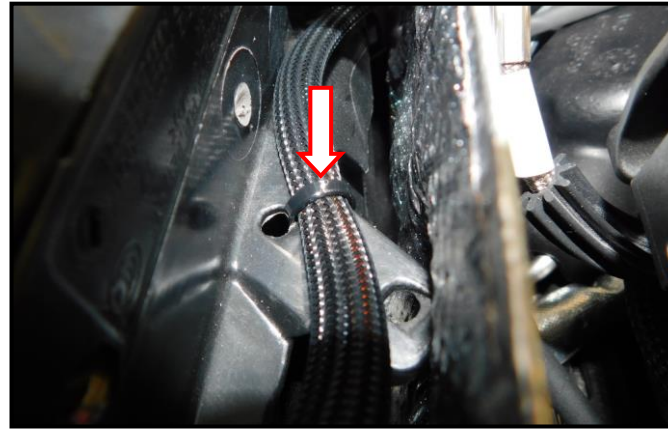
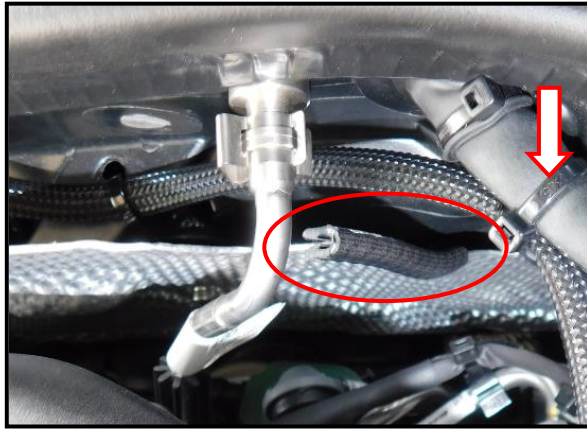


- **Enlarge the hole of the plastic cover shown to a diameter of 10mm using a suitable drill, route Brabus engine bay harness through the widened hole.**

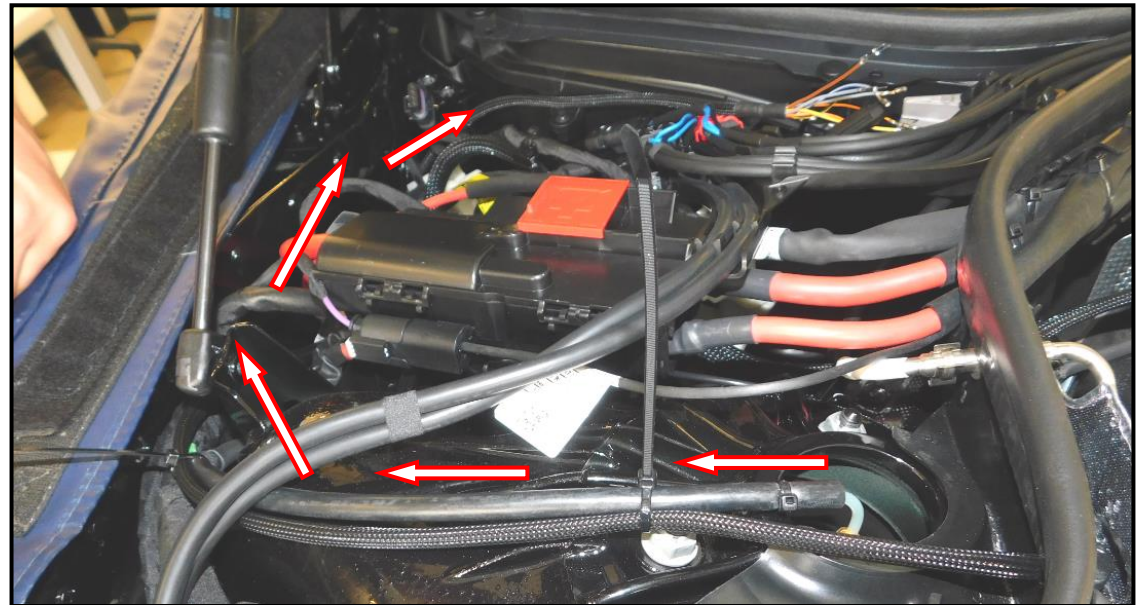




- **Fixate Brabus engine bay harness at positions shown using cable ties, make sure for tension-free routing. Attach edge protection to heat shield at position shown.**



- **Route Brabus harness upon pressure hose of right Airmatic suspension strut to the interior duct grommet. Fixate wiring harness using cable ties.**





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- *Route the wiring harness into the vehicle by using a litz-wire through duct grommet. Make sure for tightness.*



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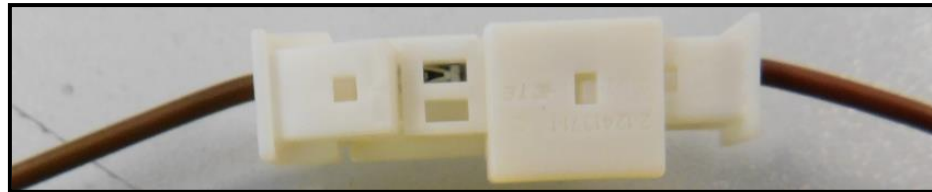
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- **Connect the ground and pressure sensor wires of the Brabus engine bay wiring harness color equal using 2- & 4-pole MQS plugs supplied to Brabus interior wiring harness.**
- **Make sure for proper latching of the pins and that the wires have been connected color equal. Lock the plugs, connect plugs and sockets.**

Slot 2 - BN to BN



Slot 1 - GY/BK to GY/BK
Slot 2 - GY/BN to GY/BN
Slot 3 - OG/BK to OG/BK
Slot 4 - BK/YE to BK/YE



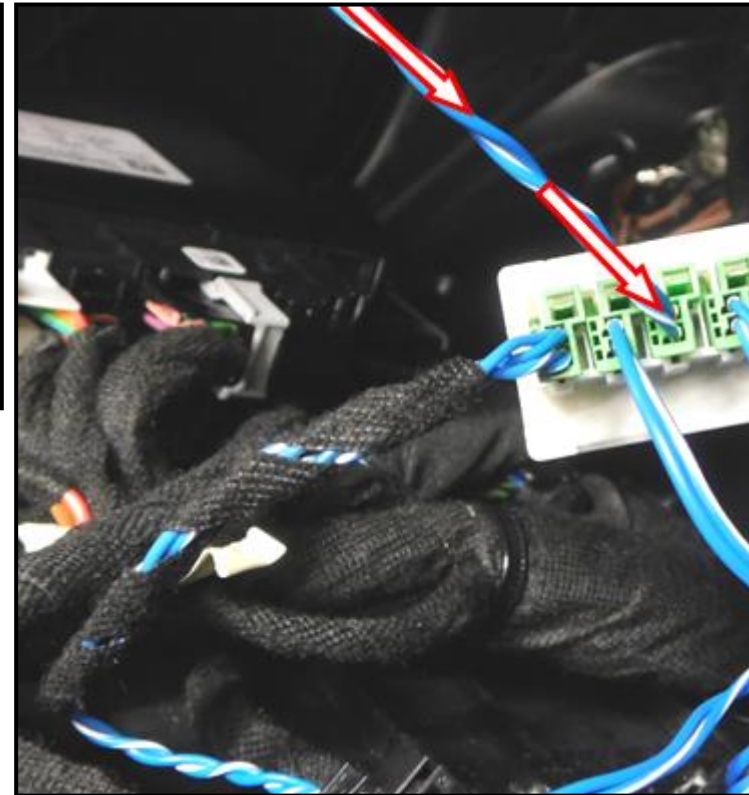
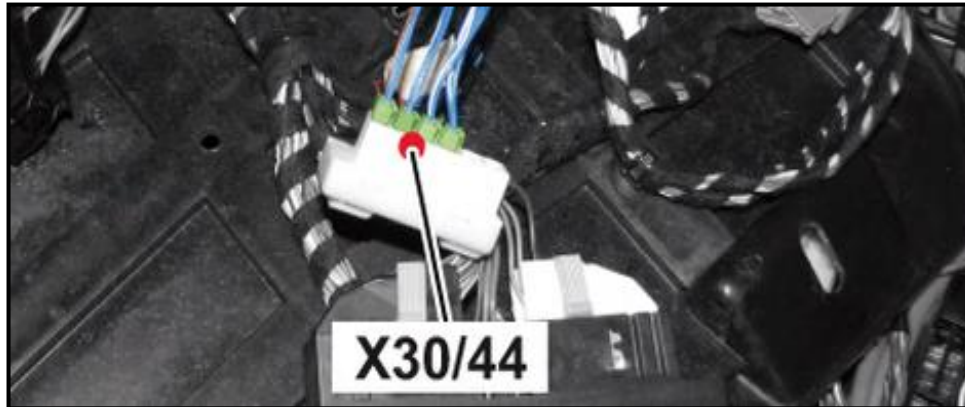
Slot 1 - BK to BK
Slot 2 - GY to GY
Slot 3 - OG to OG
Slot 4 - YE to YE





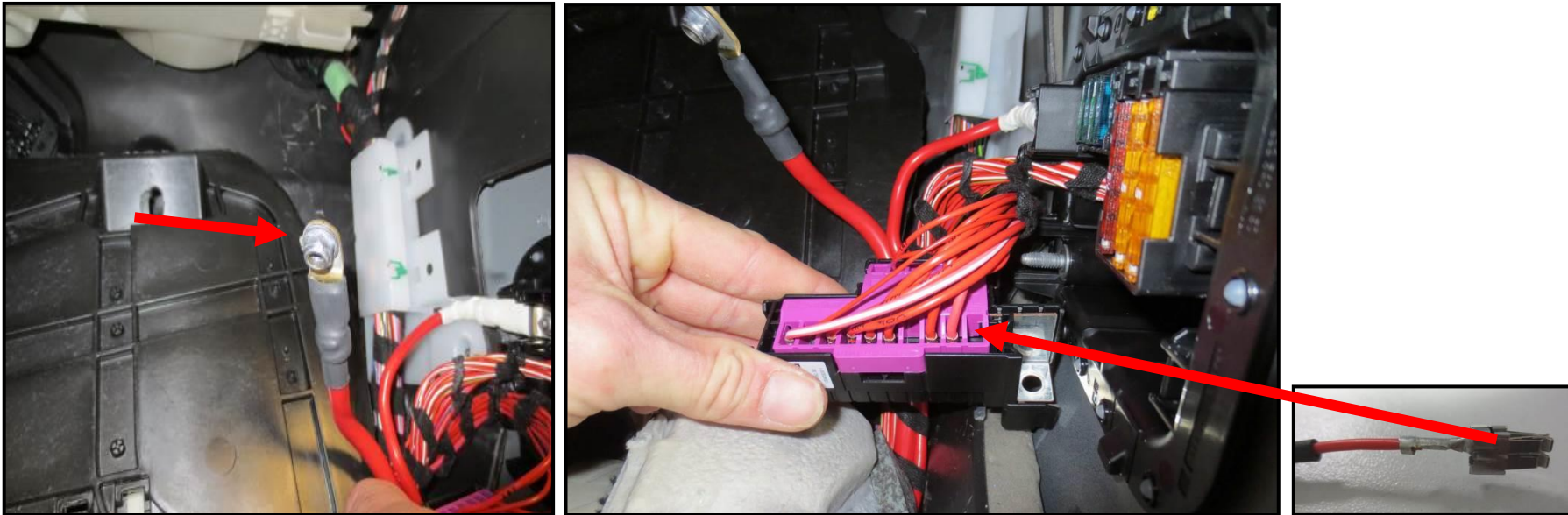
- **Attach CAN-plug of Brabus wiring harness to free port of CAN distributor shown.**

The grey wires are not used.





- **Disconnect main power supply, release fuse carrier. Attach power supply connector to free port of power supply panel shown. Attach supplied 5Amp fuse to the used port.**



- **Re-assemble all trim parts and make sure that all connections have been properly performed. Also make sure the wirings have been routed safely and protected against damages.**
- **Attach PowerXtra control unit to a suitable place within passenger footwell cover using Velcro tape supplied.**
- **Check the fault store and delete faults that might have occurred during assembly.**



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- **Remove standard AMG badge. Clean and carefully degrease the bonding surface of the AMG badge and glue the Brabus badges to the engine plastic cover according to image below. After alignment fixate the badges until the adhesive has hardened.**

Painting proposal of engine cover: Mercedes-Benz Signal red, color code 568



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