

Installation Instructions AWRON BMW Flap Control

**M5****M8****X5M****X6M****M550i xDrive****M850i xDrive****F90****F91/ F92/ F93****F95****F96****G30/ G31****G14/ G15/ G16**

Needed tools



Assembly tool

Disconnect the negative pole of the battery



Hexagon, wrench size 10mm

Dismantling the door sill on the driver's side



Remove the entry board



Dismantling of the footwell trim on the driver's side

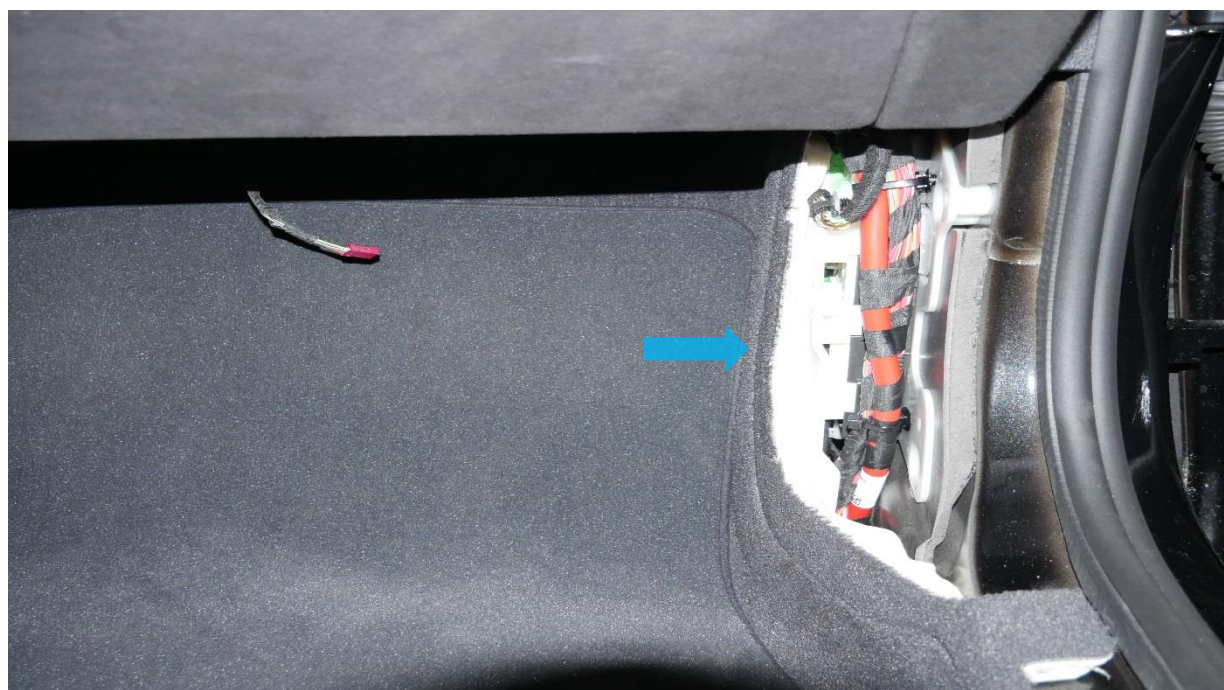


Turn it up by hand



Remove the cover

Dismantling of the footwell trim on the driver's side



Remove the side panel



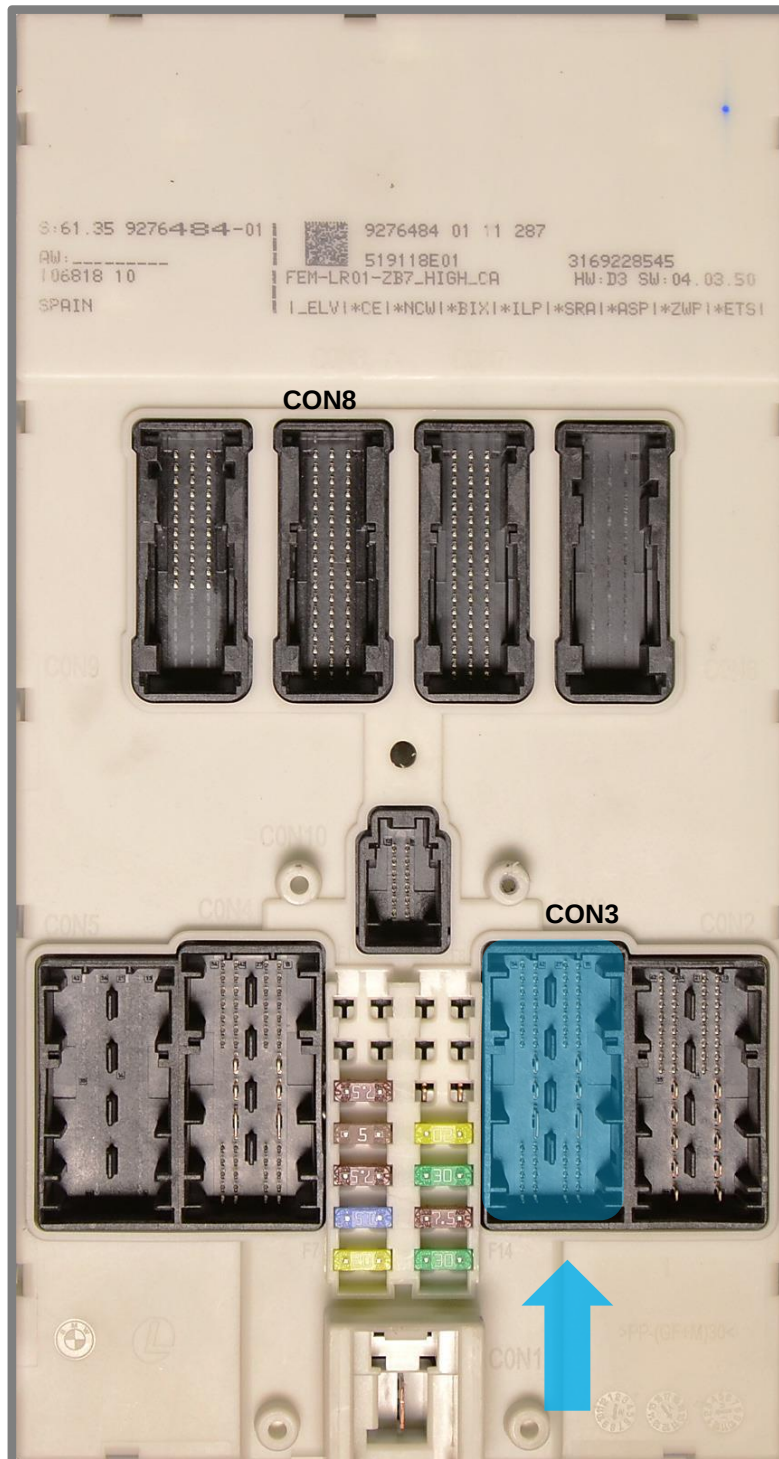
Unfold the carpet

Remove the protective bar

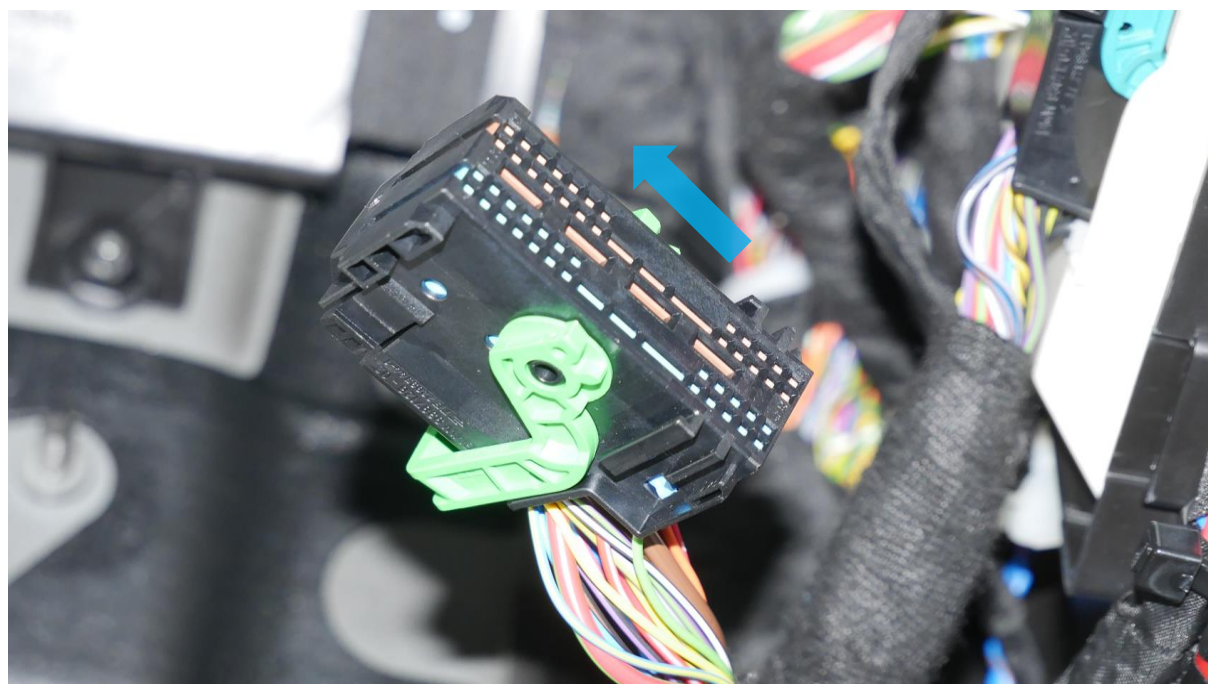


Remove the protective bar

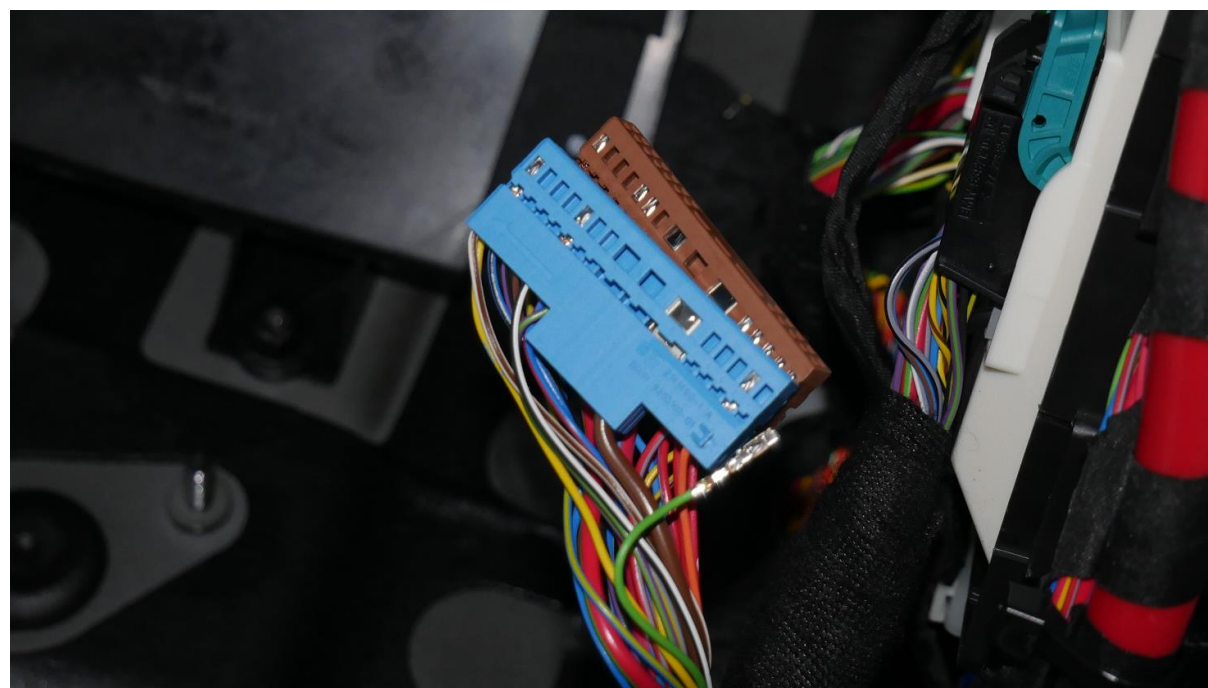
BDC CON3



Plug CON 3

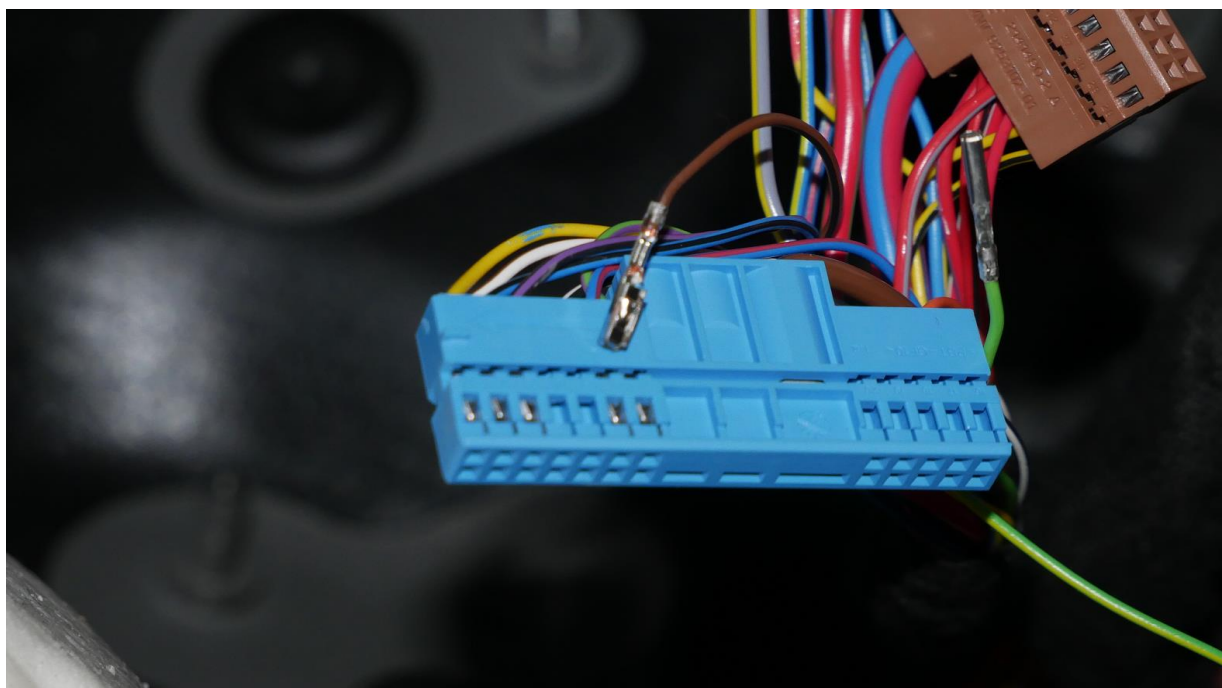


CON3 pull off the protective cap

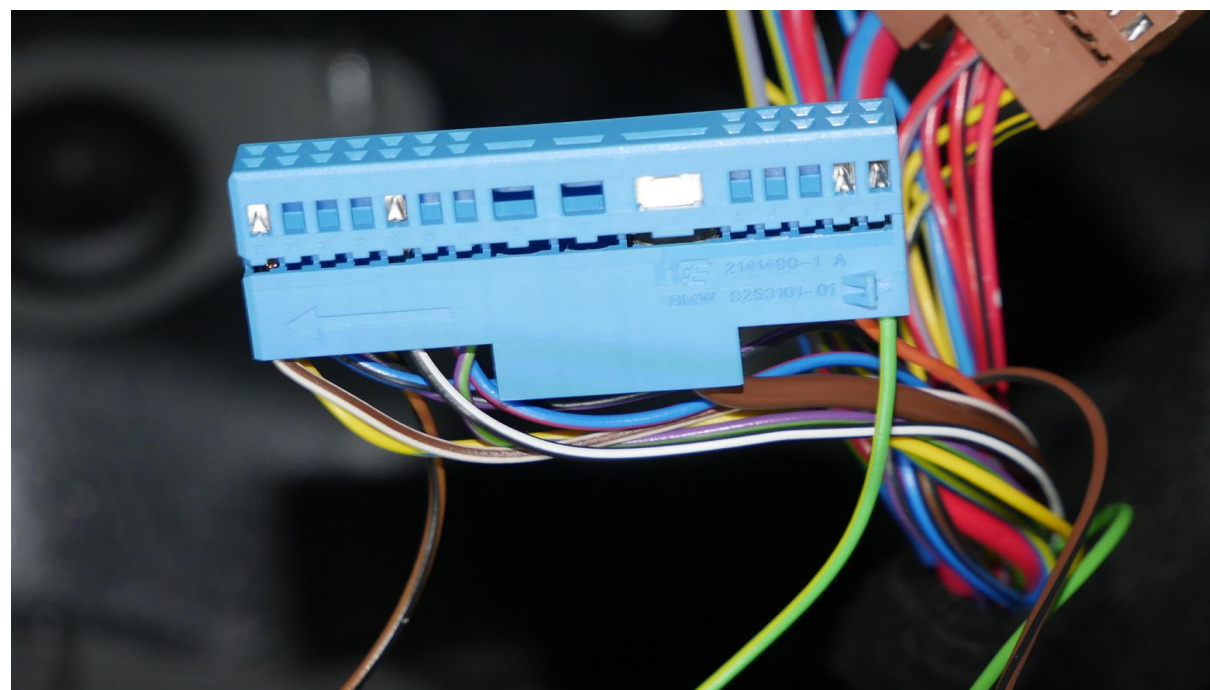


Pin1 green pin out KL_15

CON3

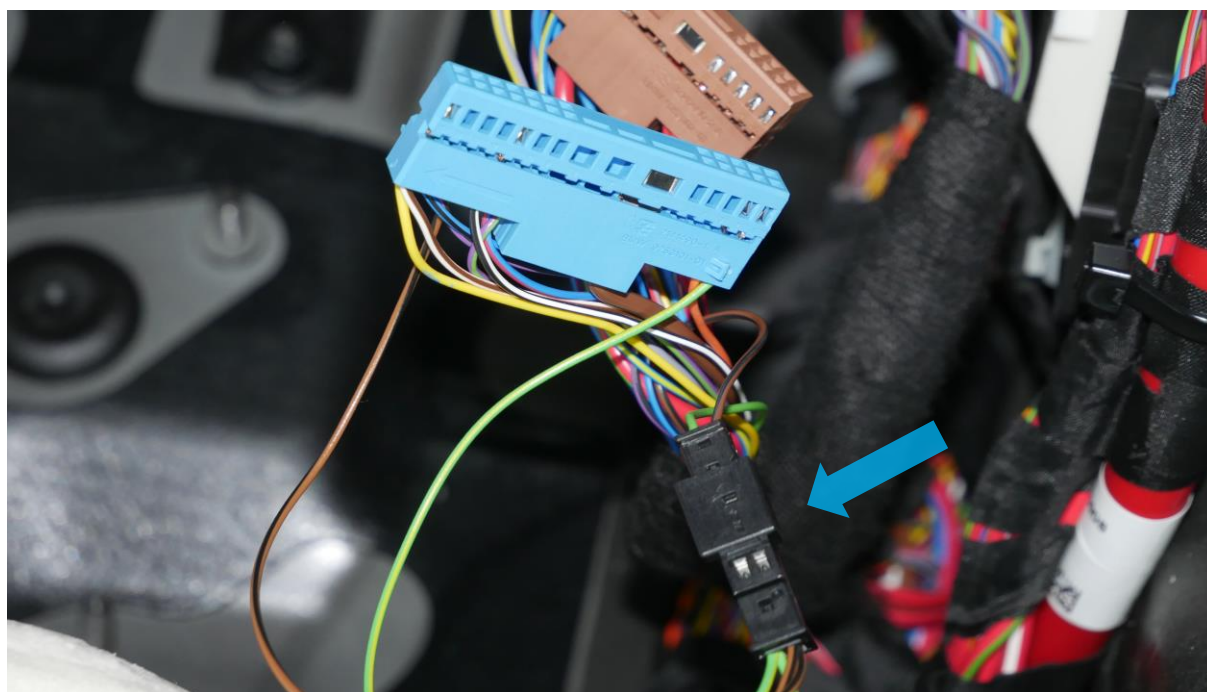


Unpin Pin 24 KL_31



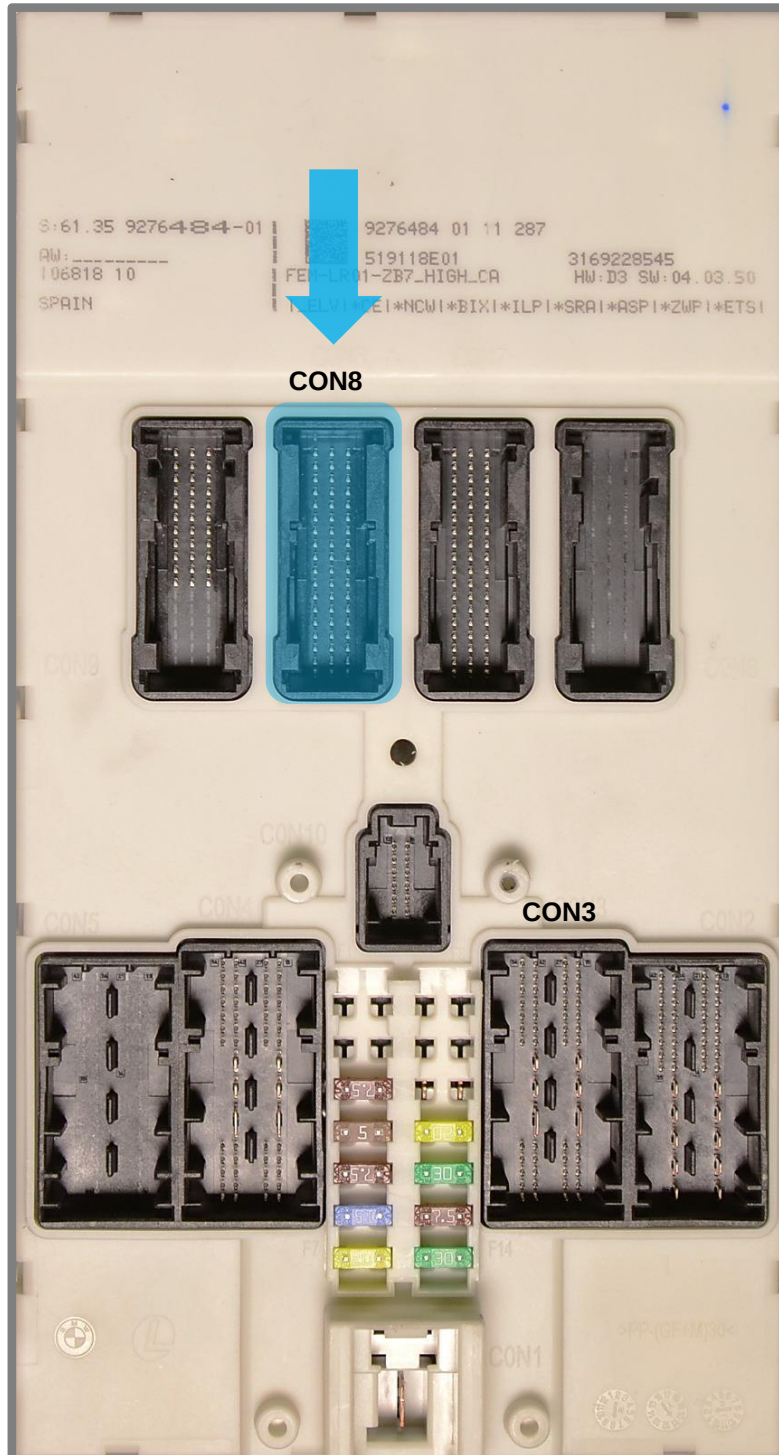
Pin in the AWRON cable harness

CON3



2 pol. connect the male/female plug to the AWRON cable harness

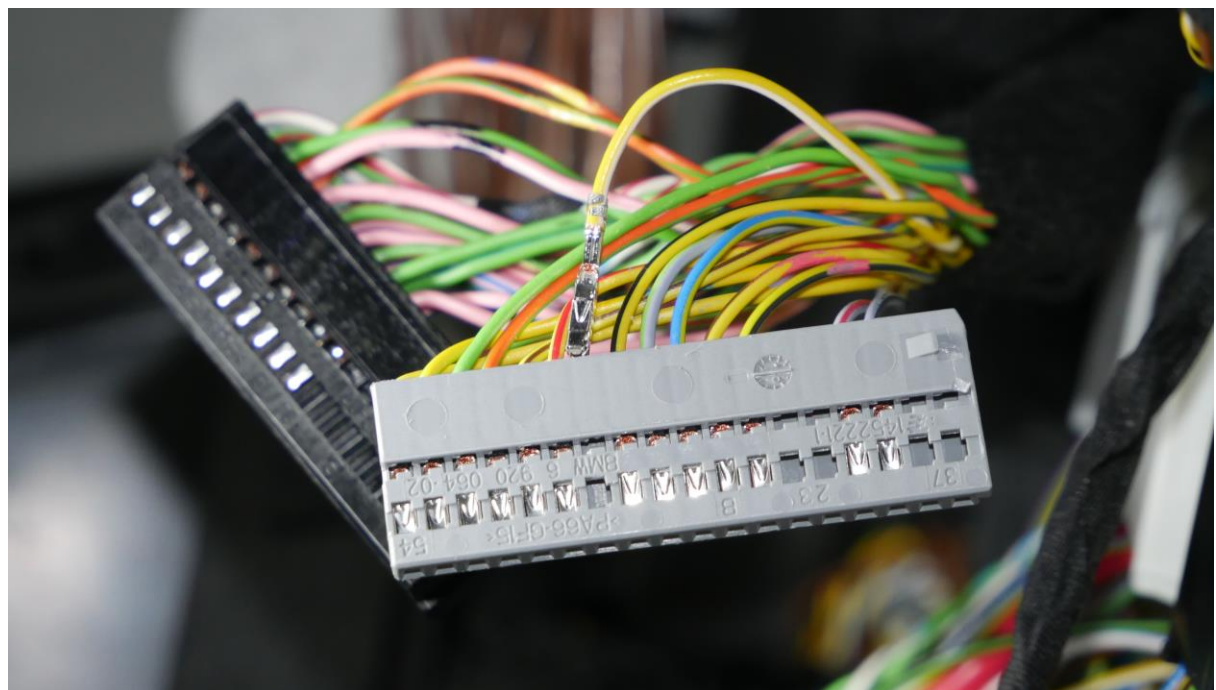
BDC3 CON8



CON8

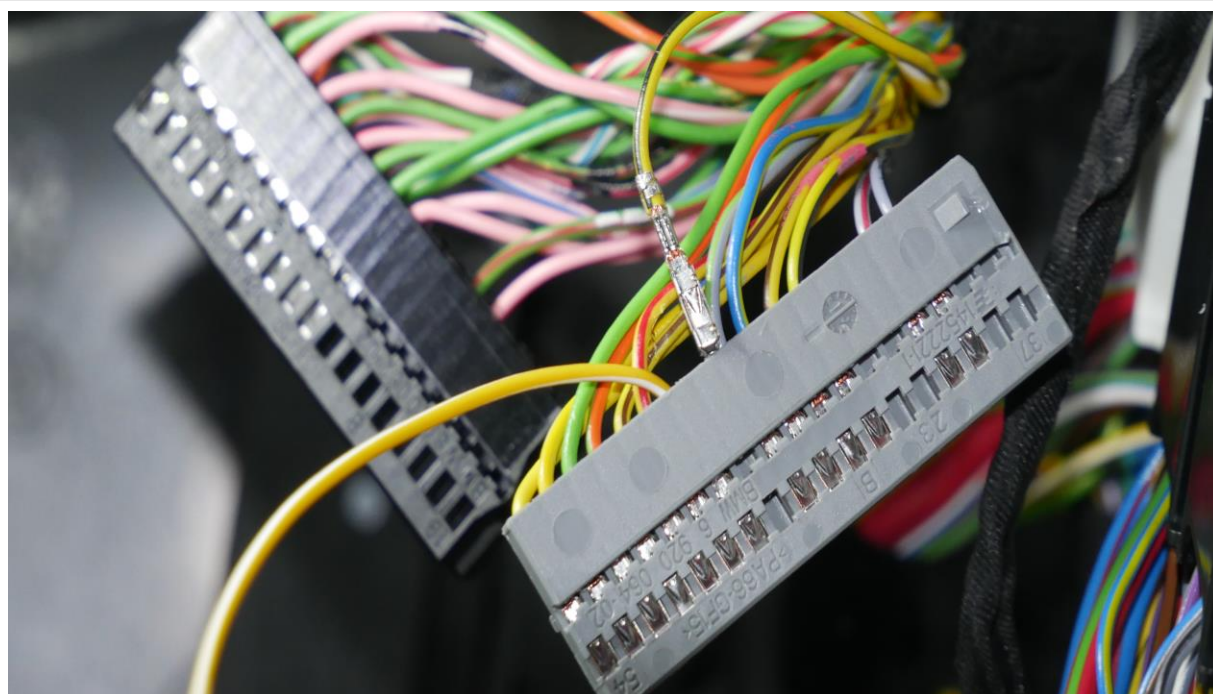


Remove the CON8 protective cap

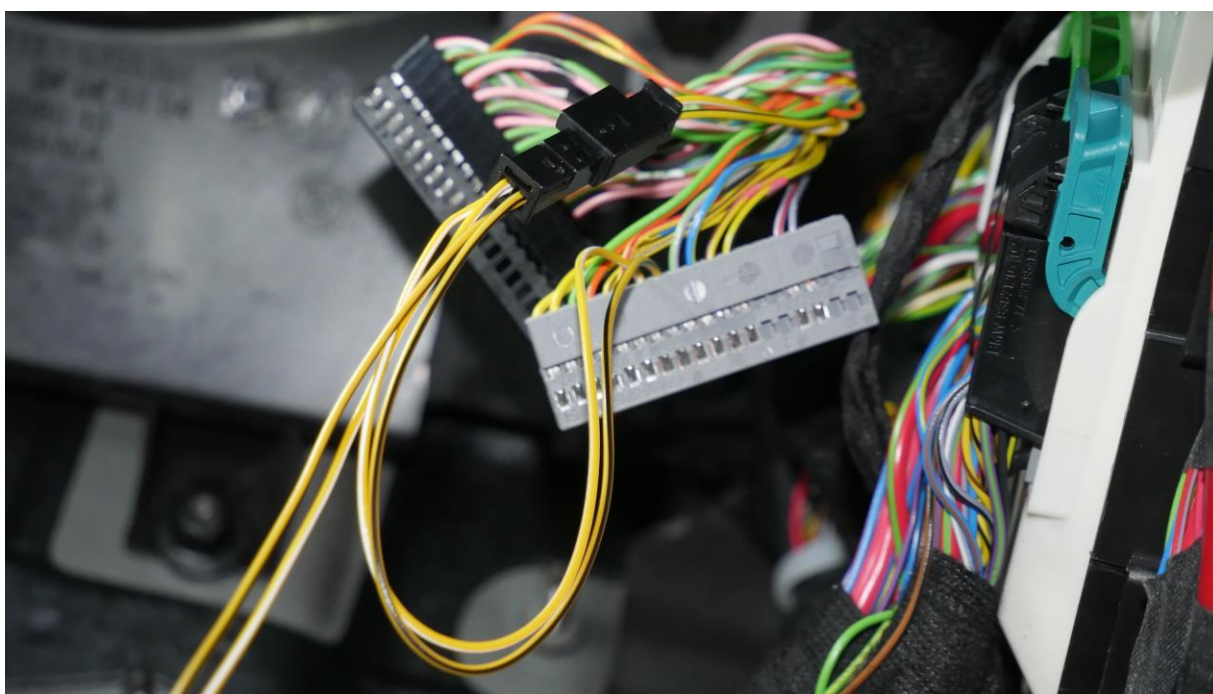


Pin out pin 48 yellow/white CAN_LOW

CON8

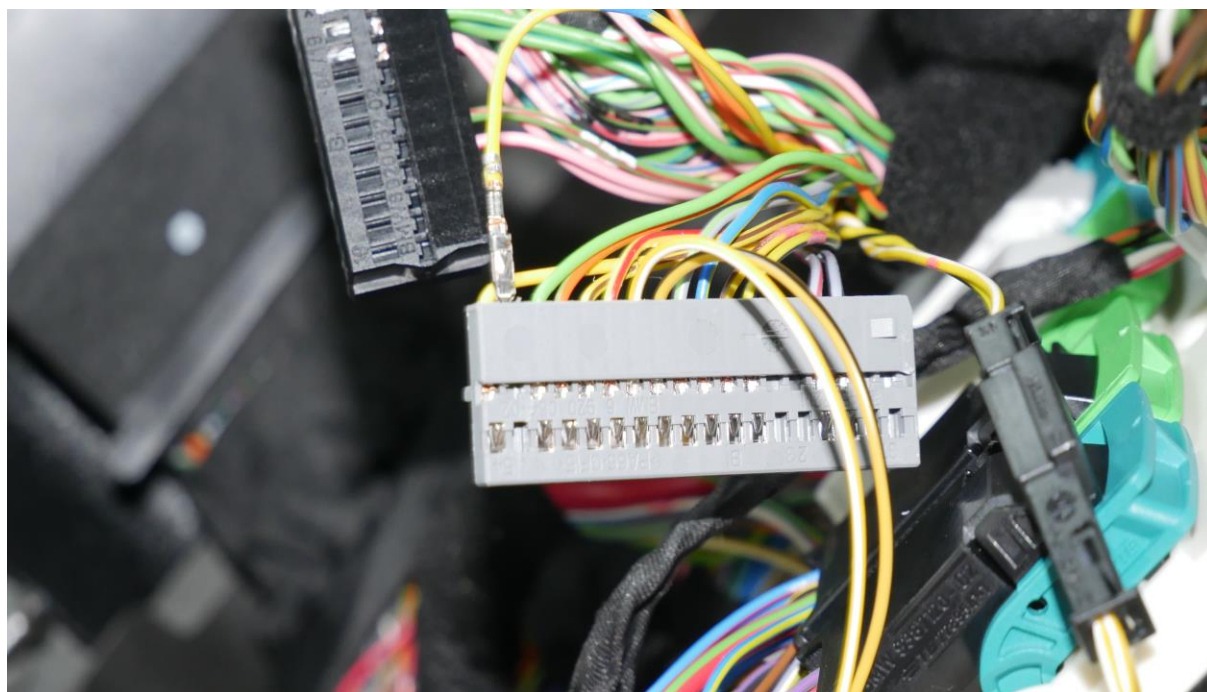


Pin out pin 47 yellow/black



Pin the AWRON cable harness in pin 47 and 48 and connect the cables with 2 pol. connect plug

CON8

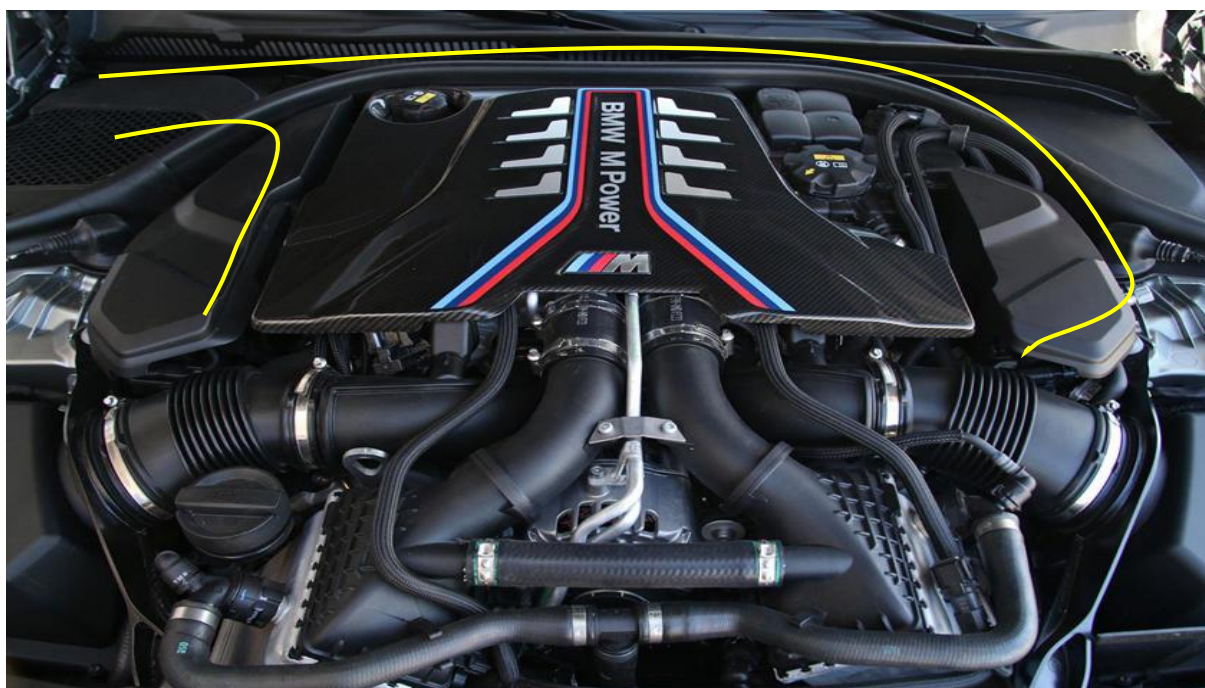


Pin out pin 53 yellow and connect with AWRON cable and 2 pol. connect plug

CON8

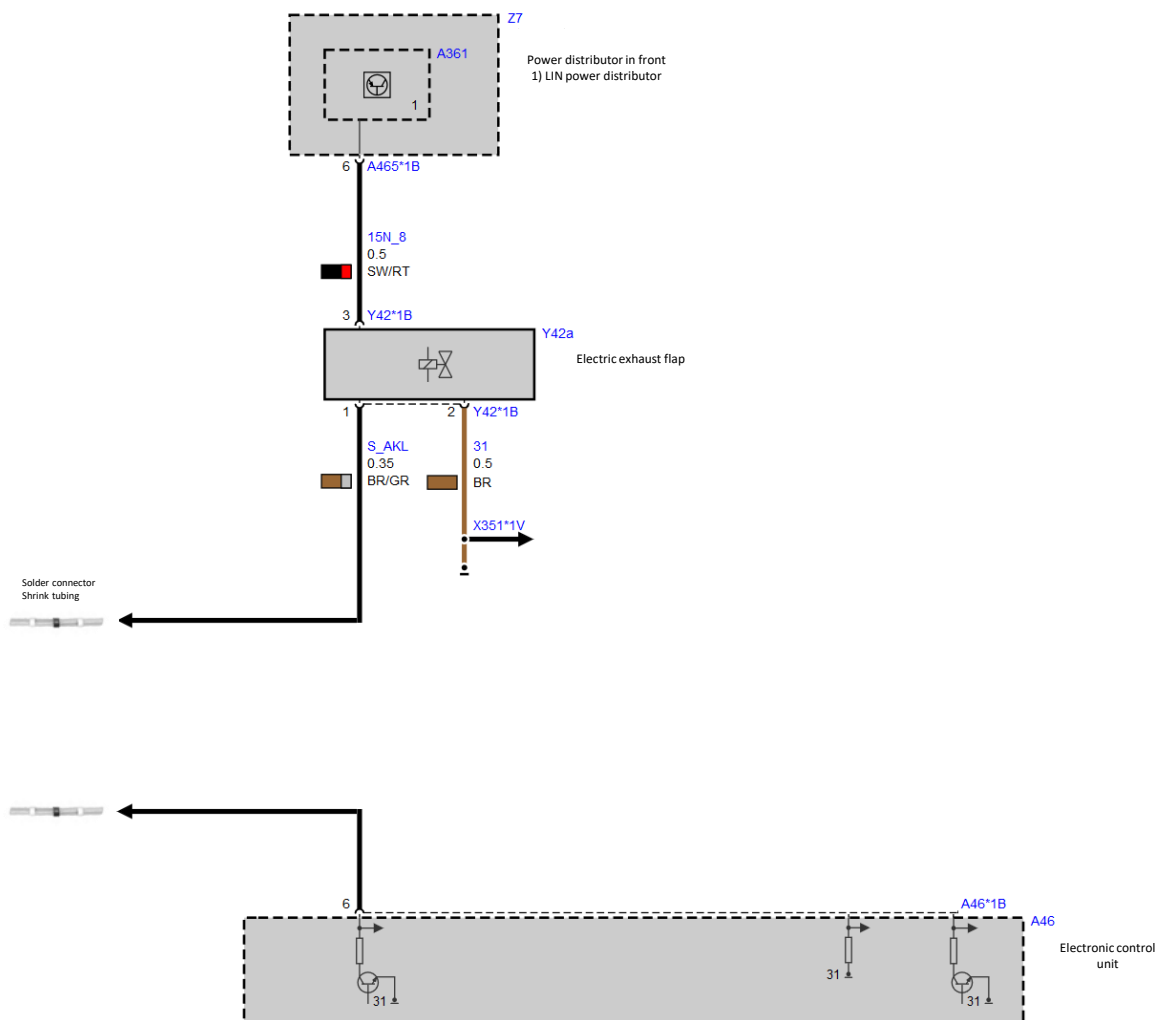


Lay the AWRON cable harness to both engine control units



Lay both cables to the engine control units

Cable harness engine control unit left and right, plug 1 pin 6



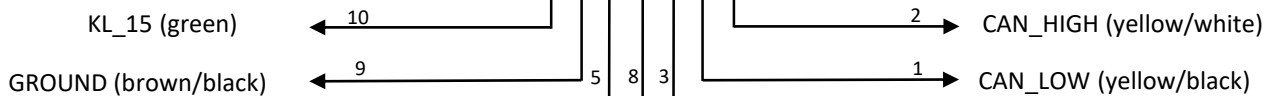
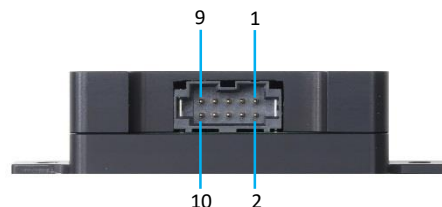
Circuit diagram

AKS pin assignment



Pin assignment 10 pol. plug

- 1 = CAN_LOW (yellow/black)
- 2 = CAN_HIGH (yellow/white)
- 3 = PWM (green)
- 4 =
- 5 = PWM (pink)
- 6 =
- 7 = 8 = PWM (pink)
- 9 = GROUND (brown)
- 10 = KL_15 (green)



PWM (pink)

PWM (green)



PWM (pink)

PWM (green)



Engine control unit left and right, plug 1



Unwind plug 1 insulation



Cut connector 1 pin 6 cable, the cable color may differ from the picture

Engine control unit left and right, plug 1

1.Prepare the wire



2.Position wires into solder splice



3.Tubing will shrink and solder will melt and flow through the shipped wires



Connect one solder connector to the engine control unit, the other from the engine control unit



Cut connector 1 pin 6 cable, the cable color may differ from the picture

Scope

- Exhaust flap module
- Cable harness
- 3 x 2 pol. socket housing
- 4 x solder connector



Contact



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