

Installation instructions AWRON BMW flap control



M340i G20/G21

530i G30/G31

540i G30/G31

630i G32

640i G32

730i G11/G12

740i G11/G12

840i G14/15/16



Needed tools

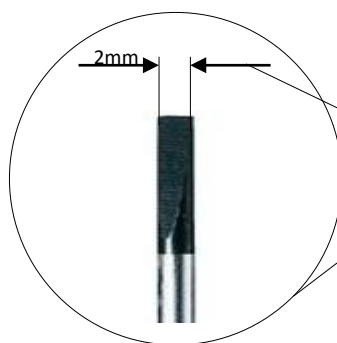
Socket wrench TORX T25



Socket wrench 10mm



Flat screwdriver 2mm



Assembly tools

Disconnect the negative pole of the battery



Hexagon, wrench size 10mm

Disassembly of cladding under glove compartment



Hexagon, wrench size 10mm



Hexagon, wrench size 10mm

Disassembly of cladding under glove compartment

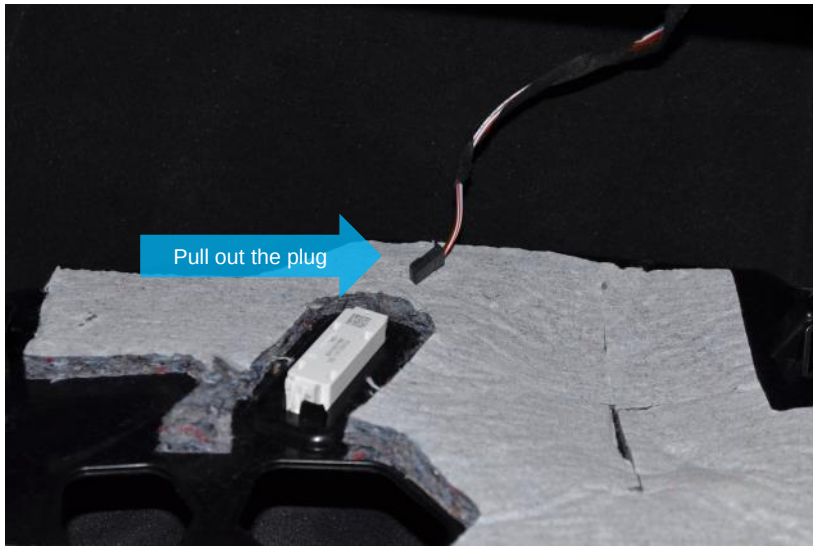


No tools necessary



No tools necessary

Disassembly of cladding under glove compartment

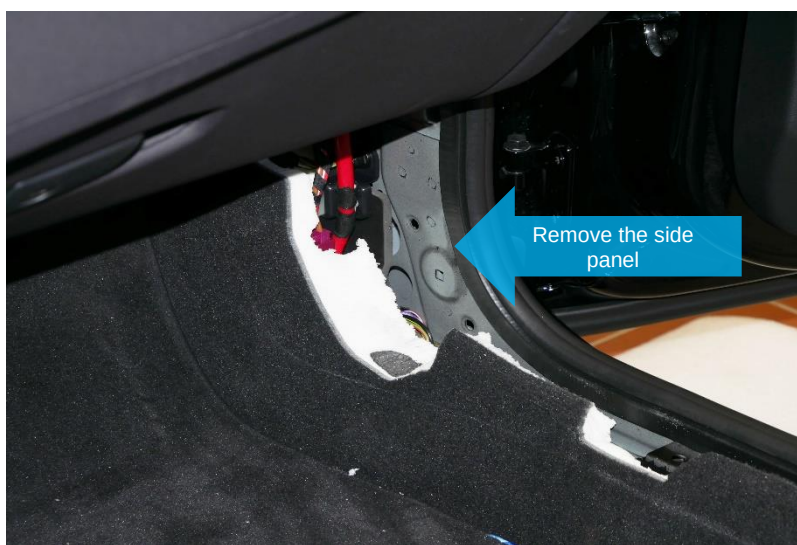


No tools necessary

Dismantling the door sill and side panels



Use a plastic wedge

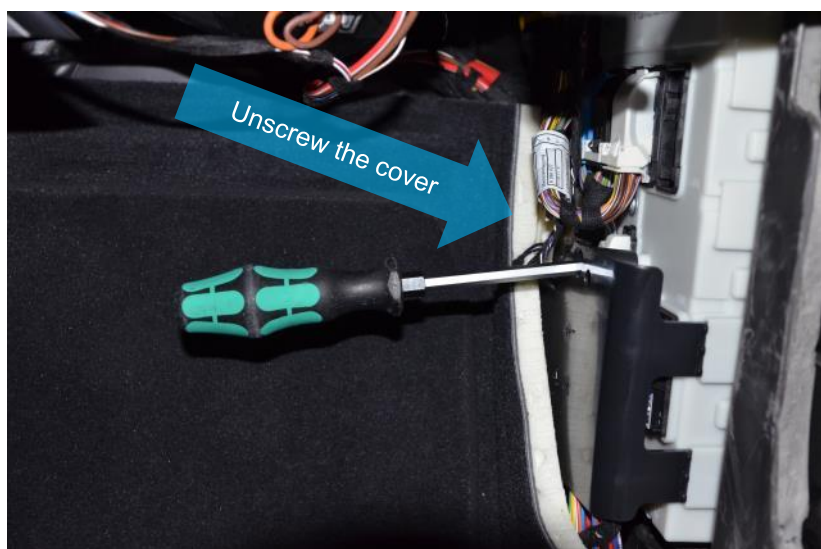


Use a plastic wedge

Disassembly of the side panel on the passenger side

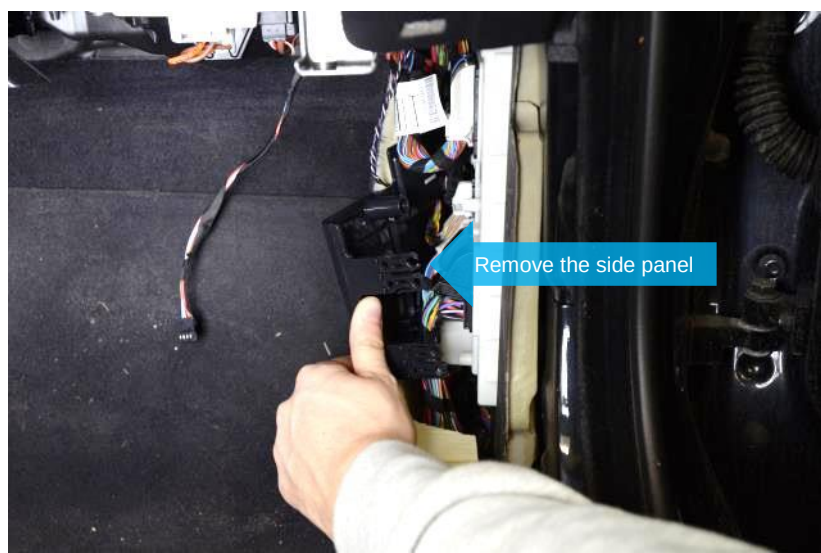


Use a plastic wedge



Torx T25

Exposure of the plug on the FEM control unit

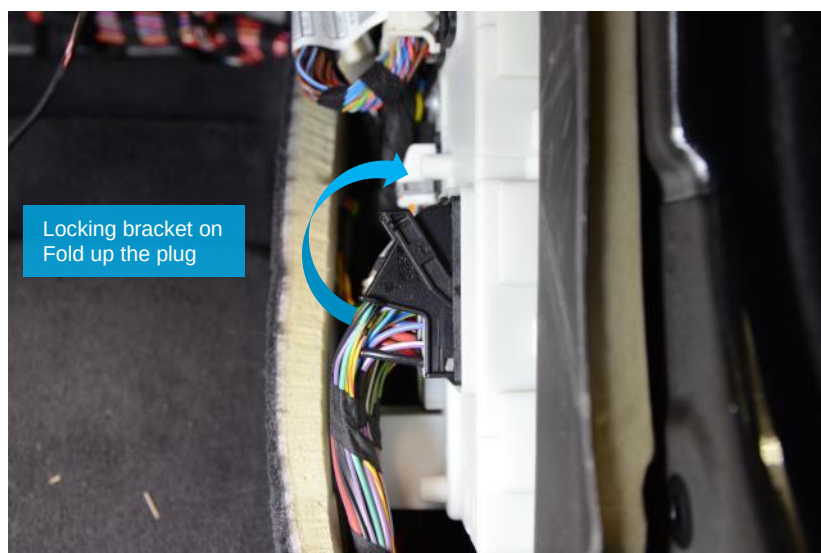


No tools necessary

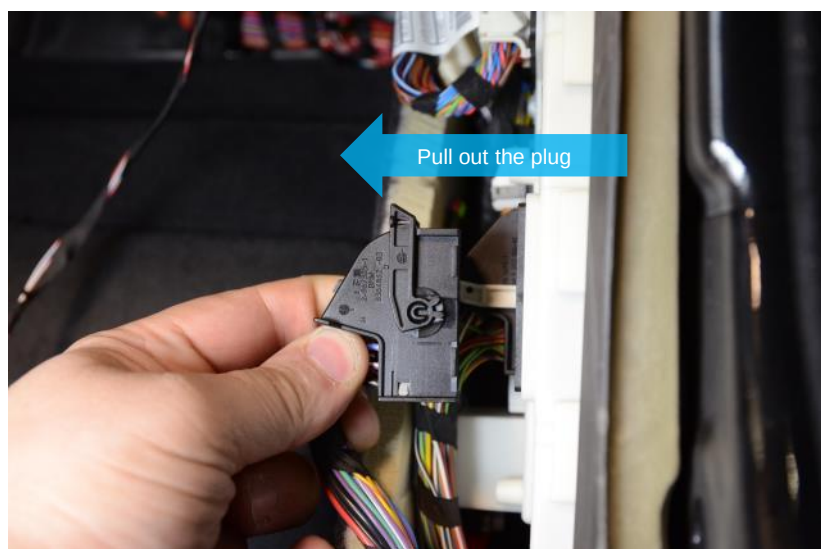


No tools necessary

Dismantle plug CON 3

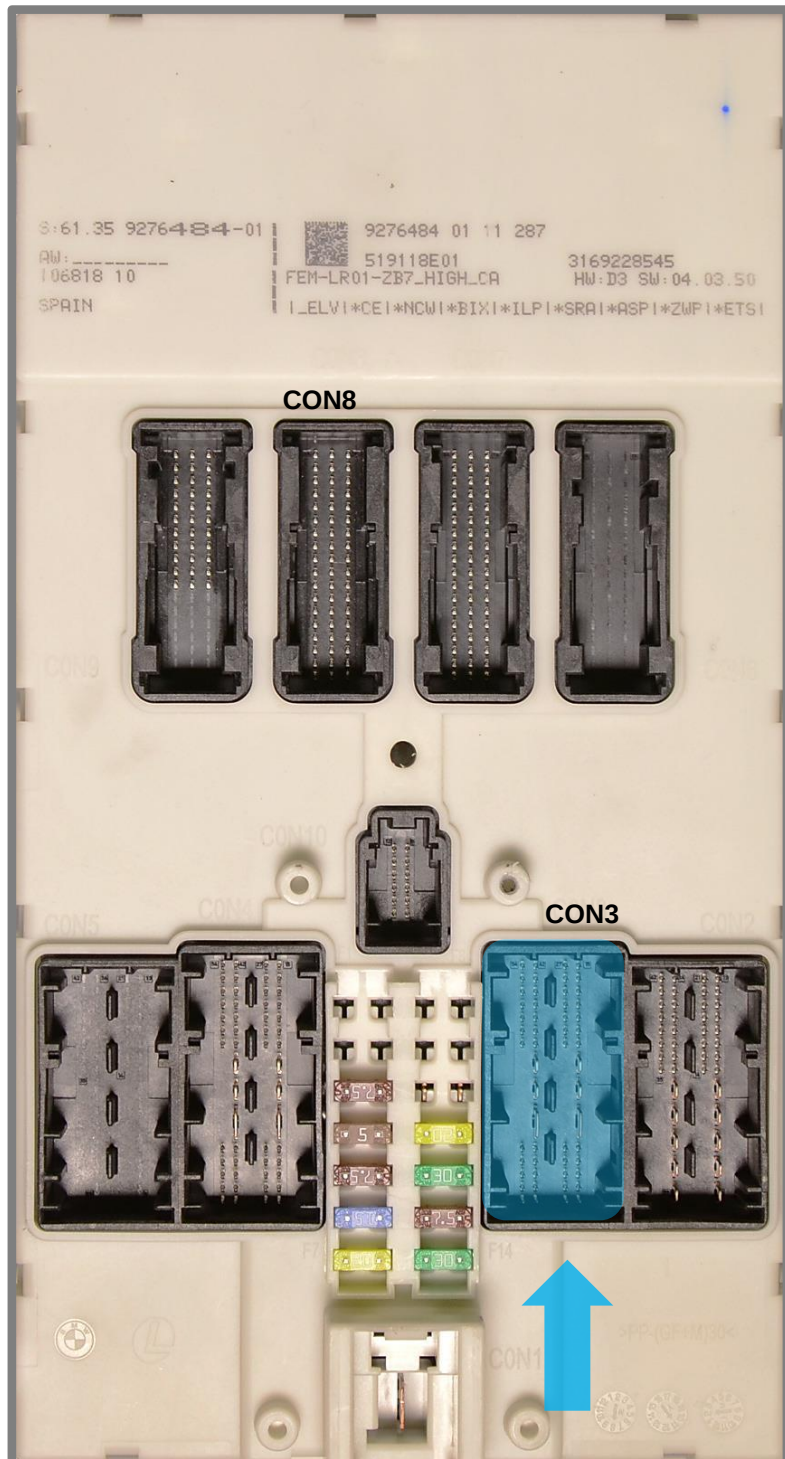


No tools necessary

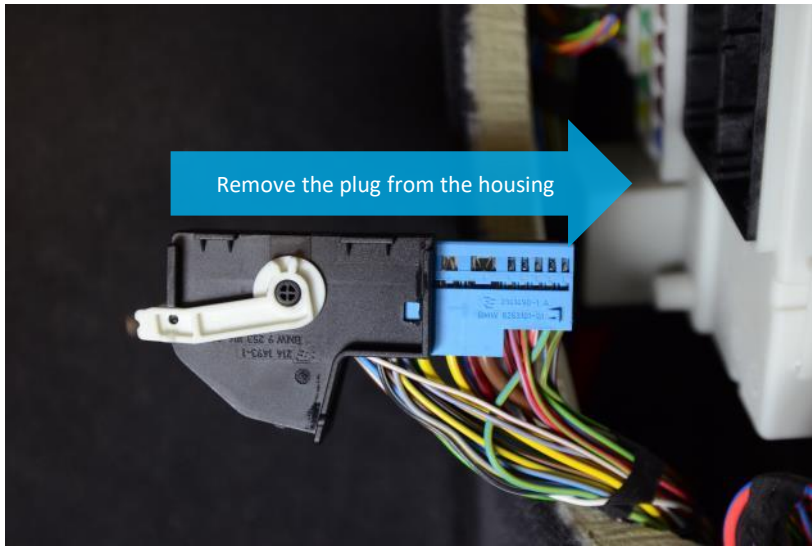


No tools necessary

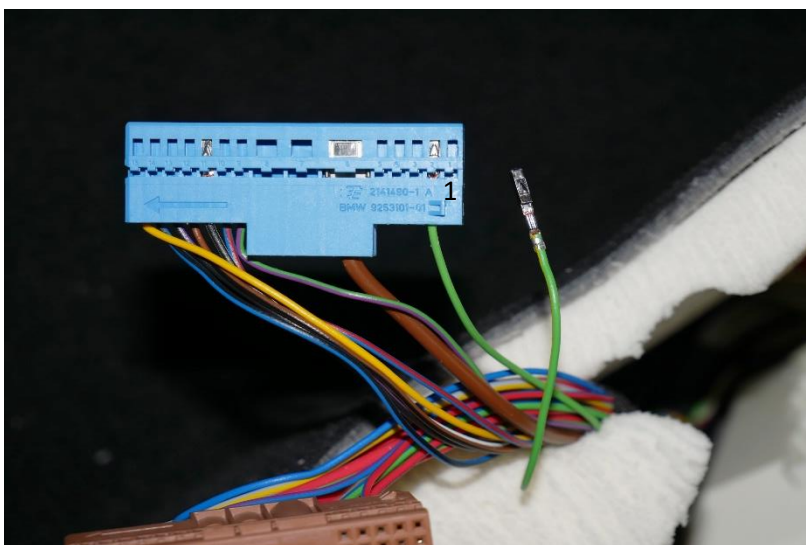
BDC CON 3



Unpin the cable from the chamber

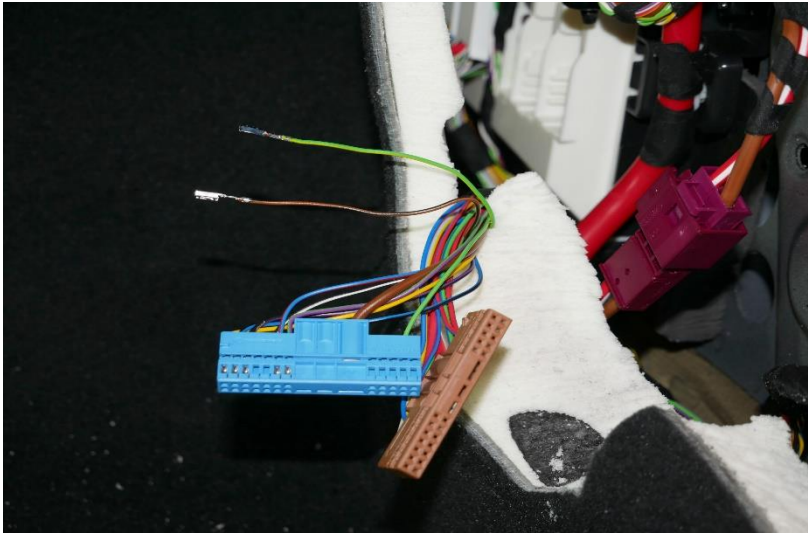


No tools necessary

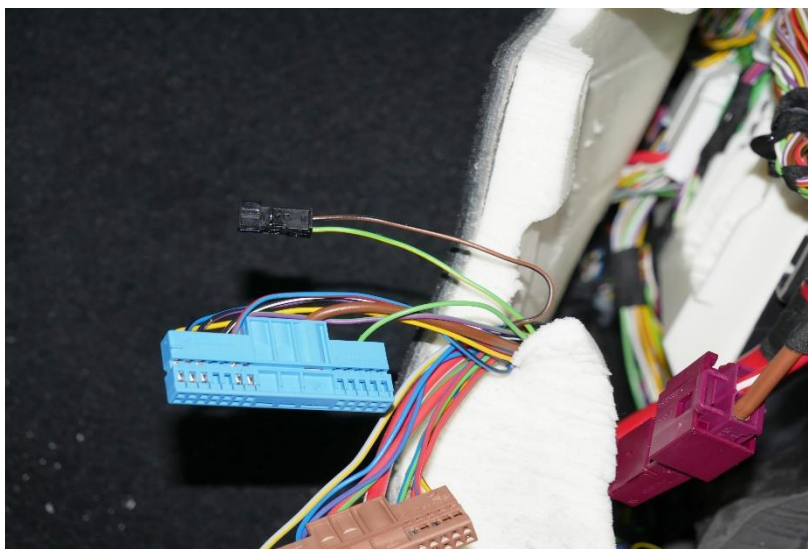


Flat screwdriver 2mm

Pin the cable in the plug and connect it

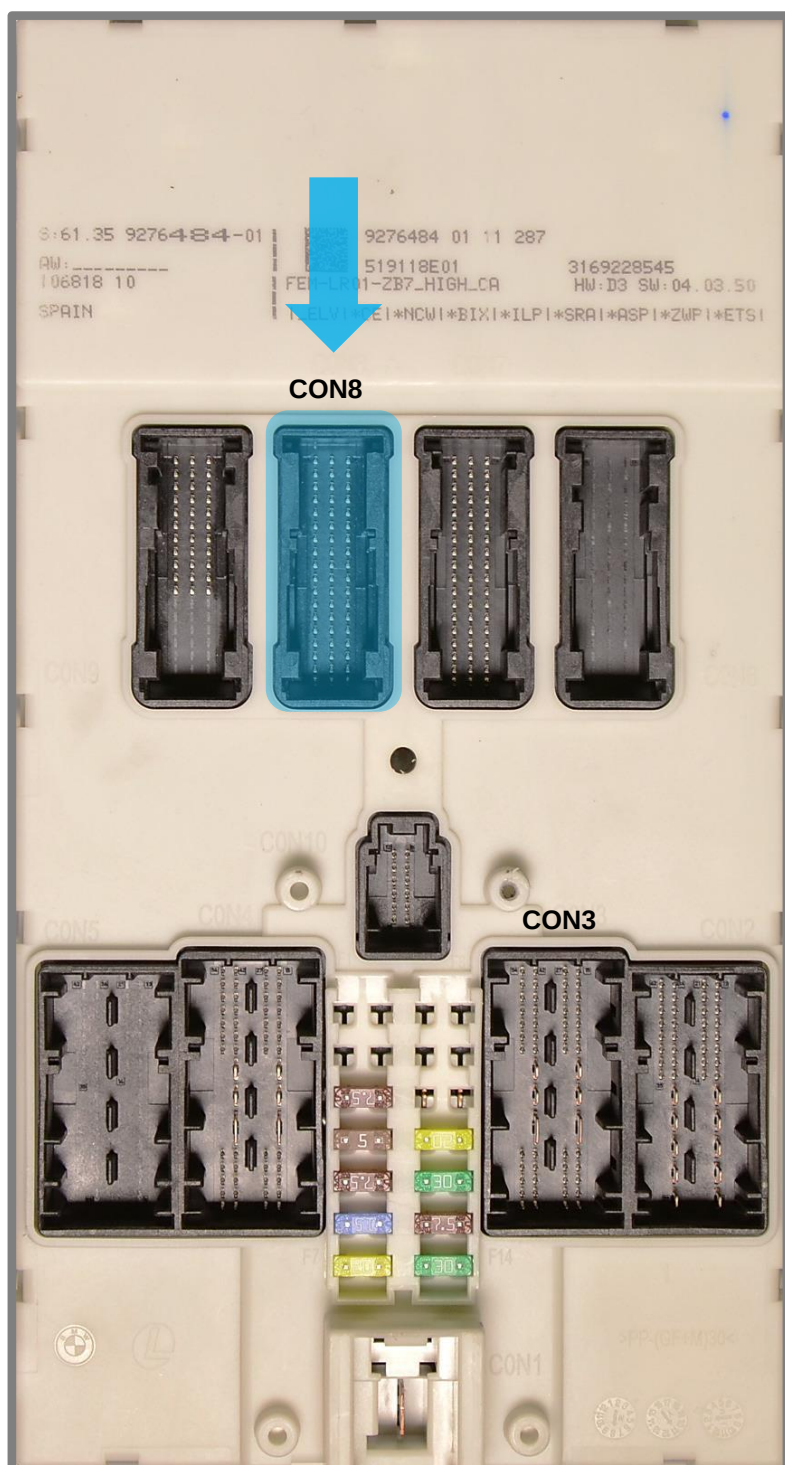


Pin 1 (green/yellow) in 2 pol. pin in socket housing pin1
Pin 24 (brown/black) in 2 pol. pin in socket housing pin2



Green and brown/black cables from the TopGear cable harness pin in chamber Pin 1 and Pin 24

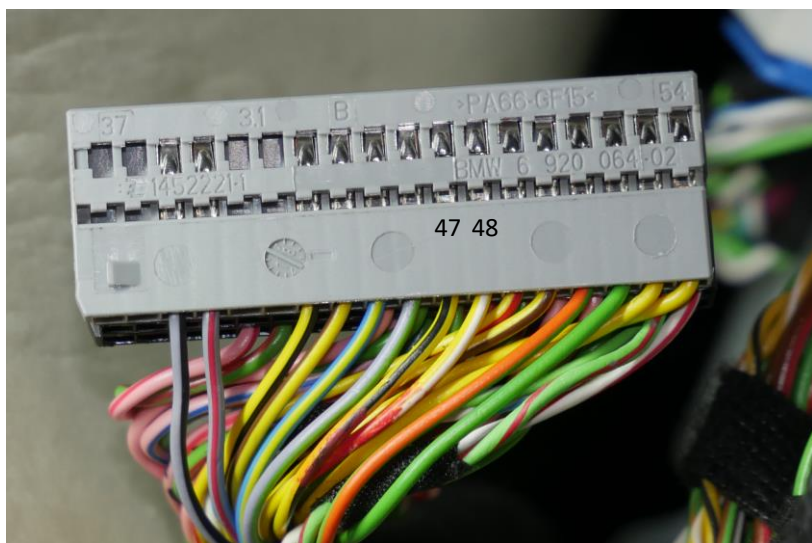
BDC CON 8



Dismantle plug CON 8



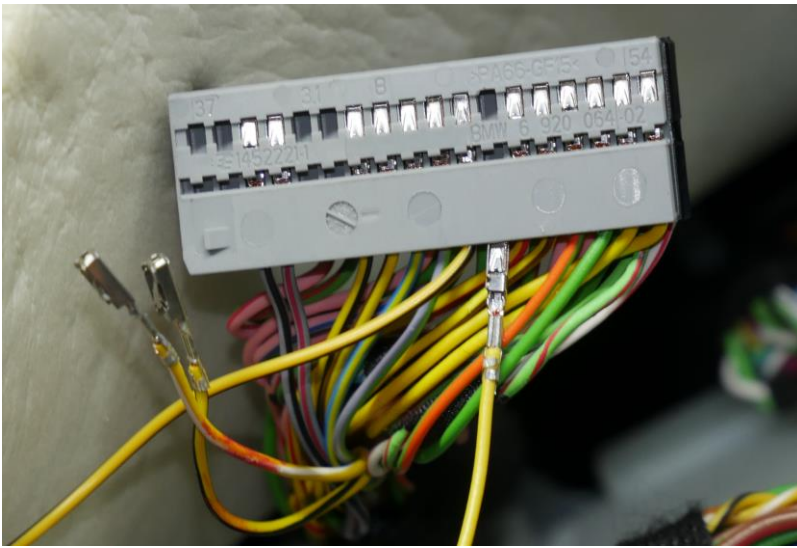
Dismantle the CON8 plug



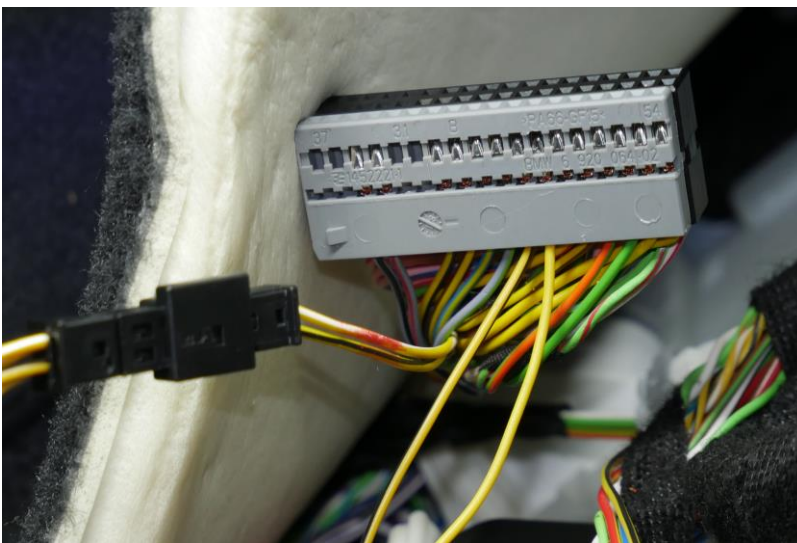
Pin 47 (yellow/black) CAN_LOW pin out

Pin 48 (yellow/white) CAN_HIGH

Dismantle plug CON 8



From TopGear cable harness, cable (yellow/black) to pin 47 and pin the cable (yellow/white) to pin 48

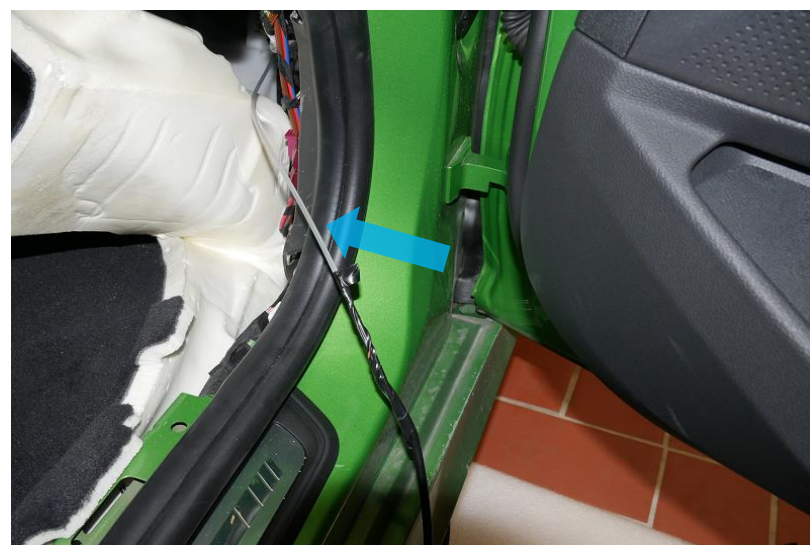


Cable yellow/black on pin 1 and yellow/white on pin 2 black 2 pol. pin in the socket housing and connect to the pin housing

Remove the trim in the engine compartment on the right



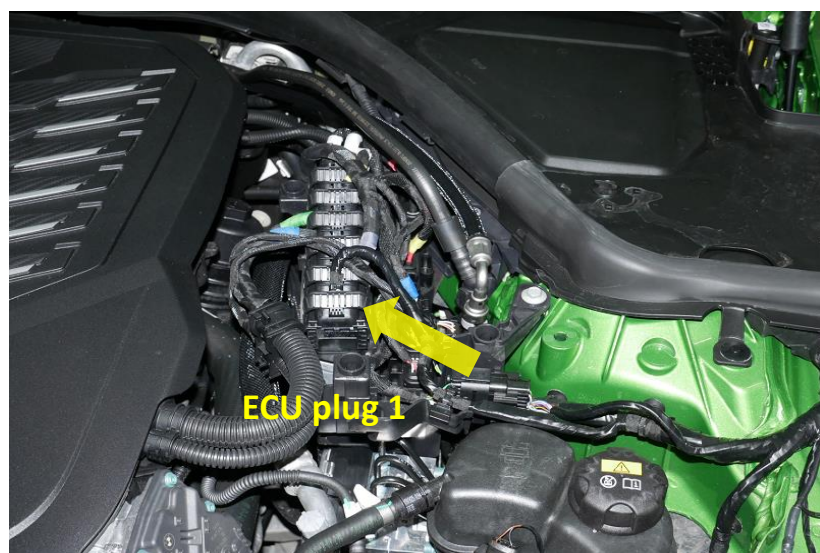
Route the cable harness from the interior to the engine compartment



Drill out the plug and pull the cable harness into the engine compartment



Lay the cable harness up to the engine control unit



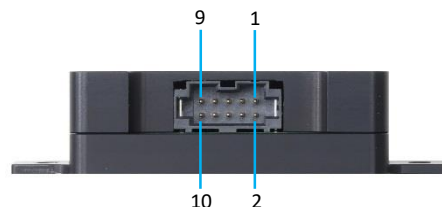
Circuit diagram

AKS pin assignment



Pin assignment 10 pol. plug

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



Solder connector
Shrink tubing

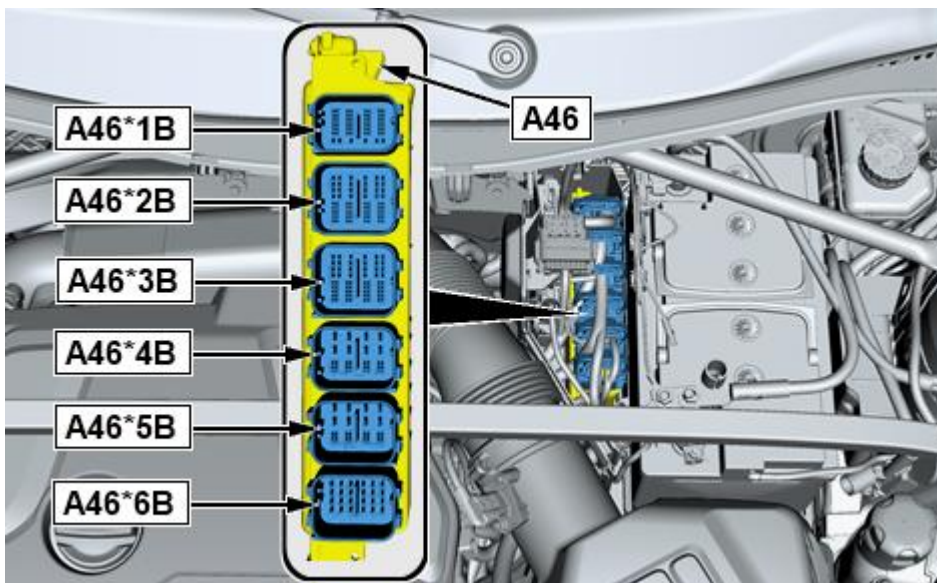
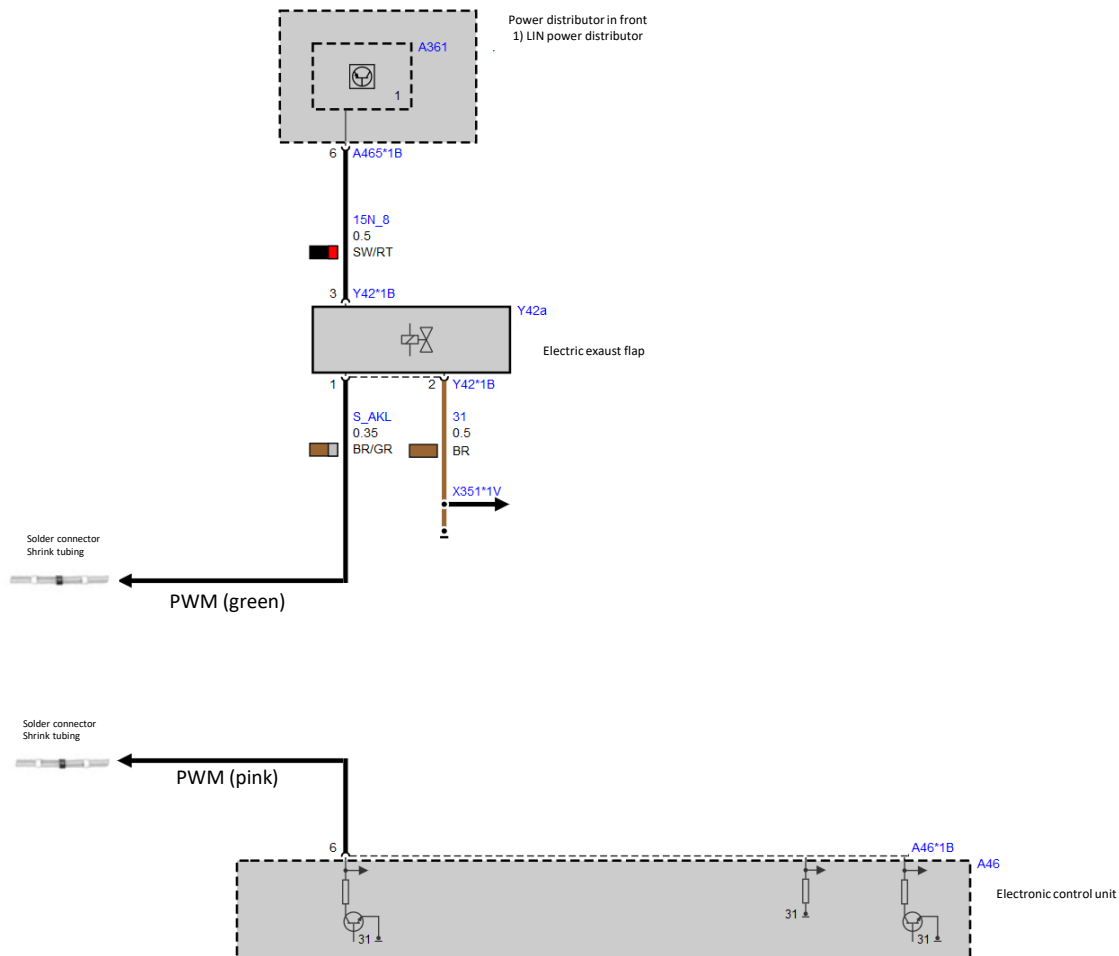
PWM (pink)

PWM (green)

Solder connector
Shrink tubing



Cable harness engine control unit plug 1 – pin 6



Cable harness engine control unit plug 1

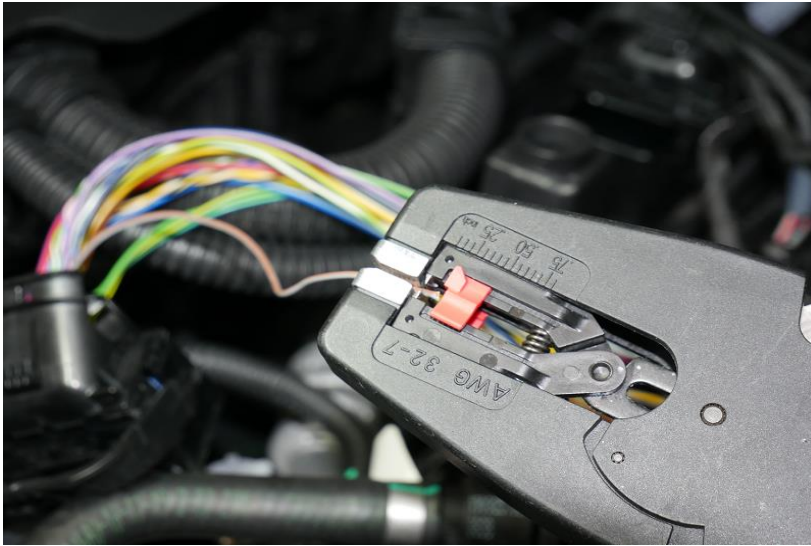


Remove insulation from cable harness



Cut the brown/gray cable

Cable harness engine control unit plug 1



Strip both ends of the cable

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 on the ECU side of the cable
Connect the other solder connector with exhaust flap side

Scope

- Exhaust flap module
- Cable harness
- 5 x 2 pol. socket housing
- 2 x 2 pol. plug housing
- 8 x solder connector



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