

WEngineering

Manual instruction of WIC + Display BMW Fxx 5/6 Series

Version:V1.0
Datum:27.12.2018



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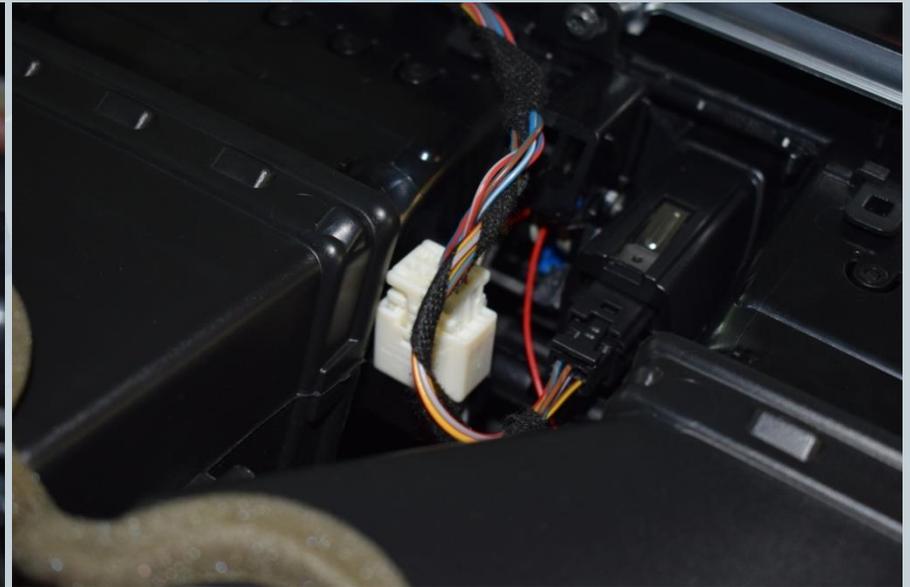
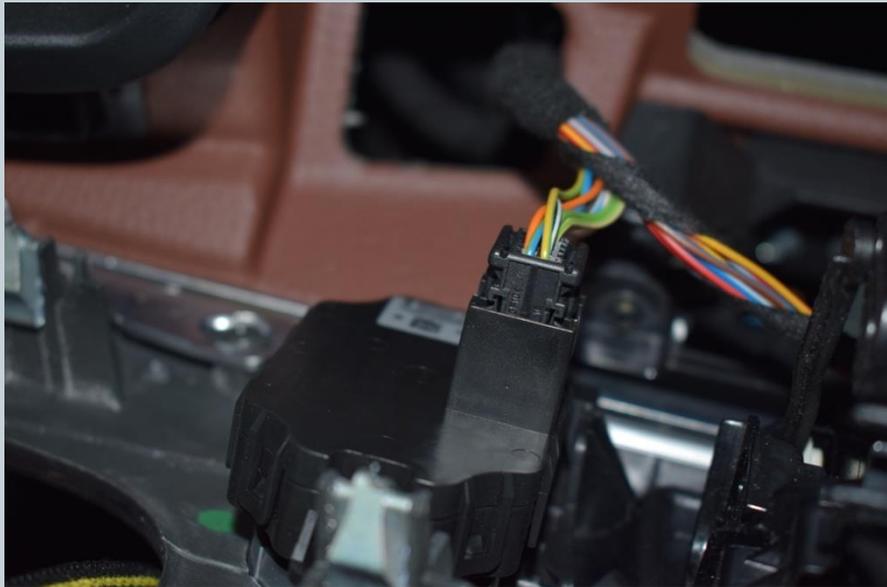
Dismantling the interior trim

Loosen the bar carefully. Starting from the passenger side.



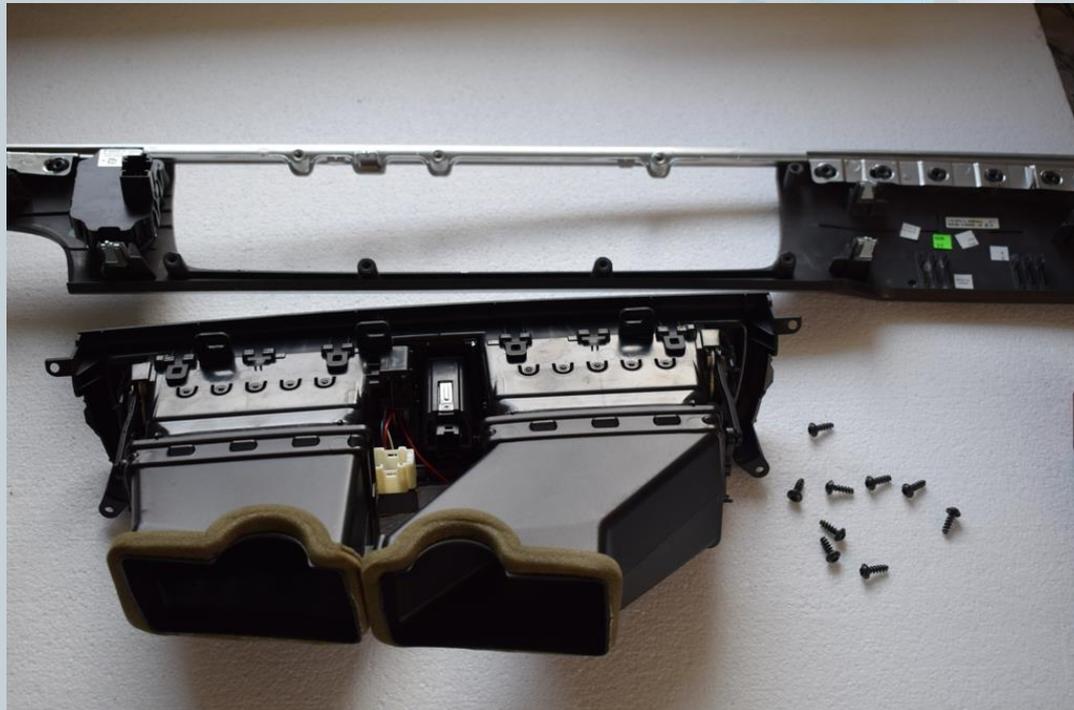
Dismantling the interior trim

Pay attention to the plug connections.



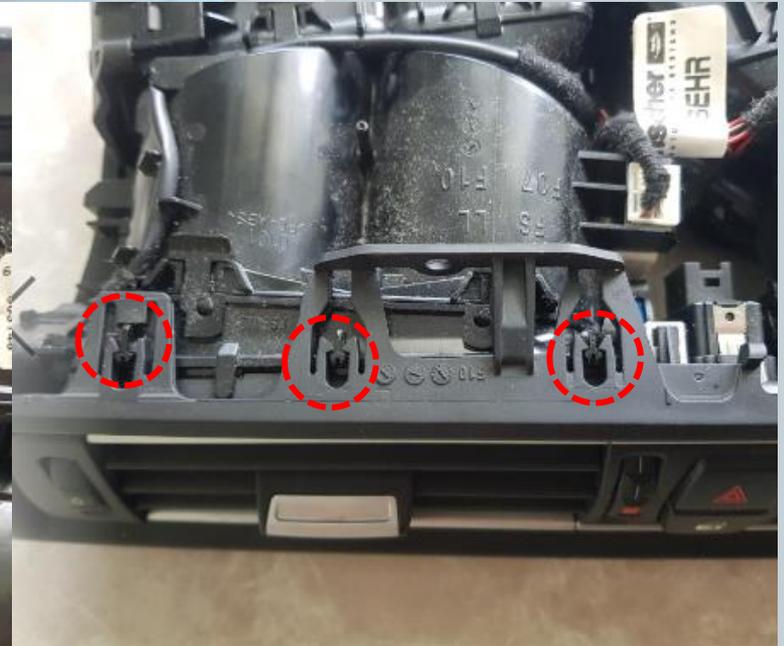
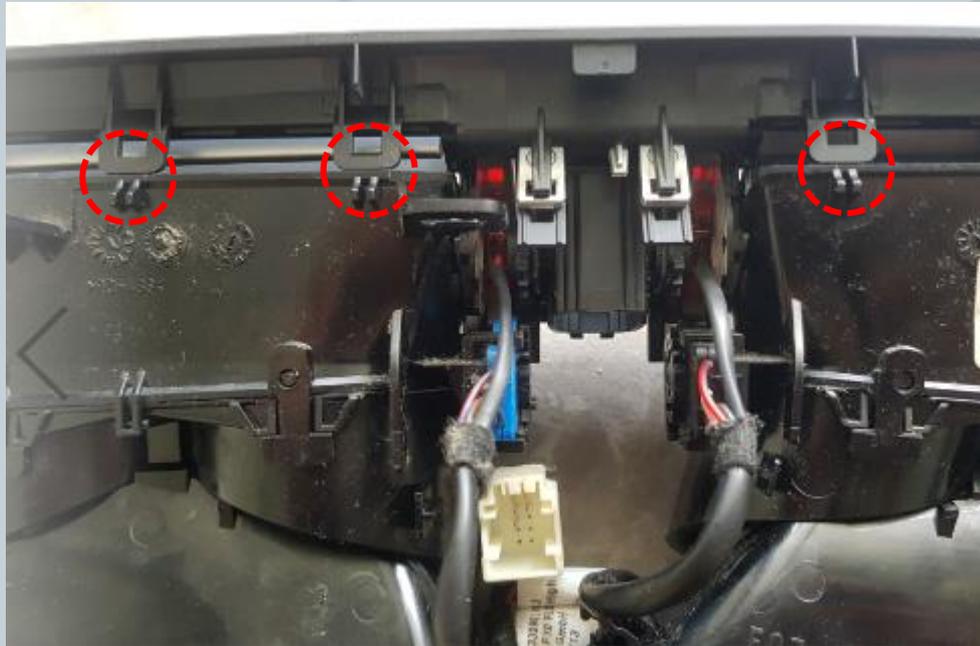
Dismantling fresh air grill

Loosen the 9 Torx screws.



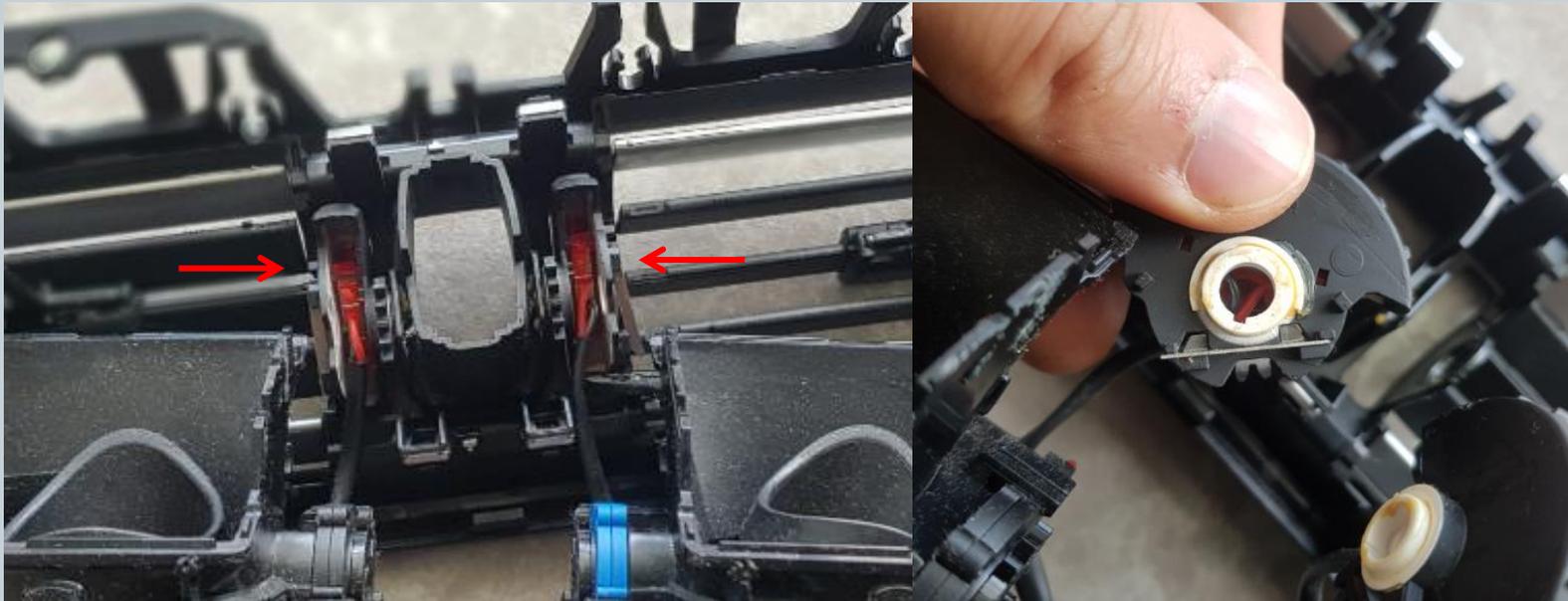
Mounting display **only 4 zonen ventilation**

Release the catches on the underside, starting from right to left. Do the same on the top.



Mounting display **only 4 zonen ventilation**

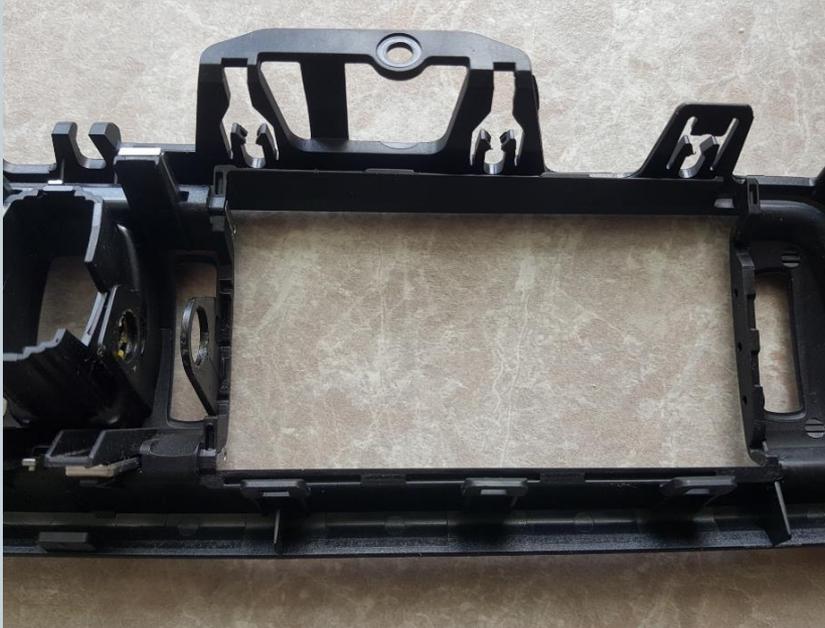
Remove the two heating controller



Mounting display **only 4 zonen ventilation**

Remove the grille from the driver side cover.

Remove the nozzle parts on the driver's side.



Mounting display **only 4 zonen ventilation**

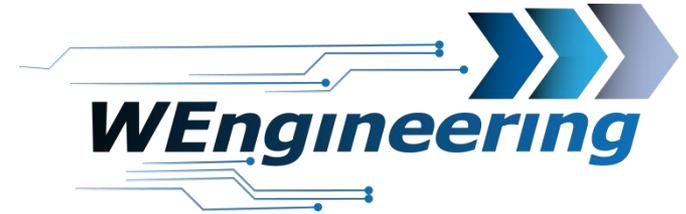
The ventilation must be edit on at the red marked places.

As shown in the picture, grind off some plastic.



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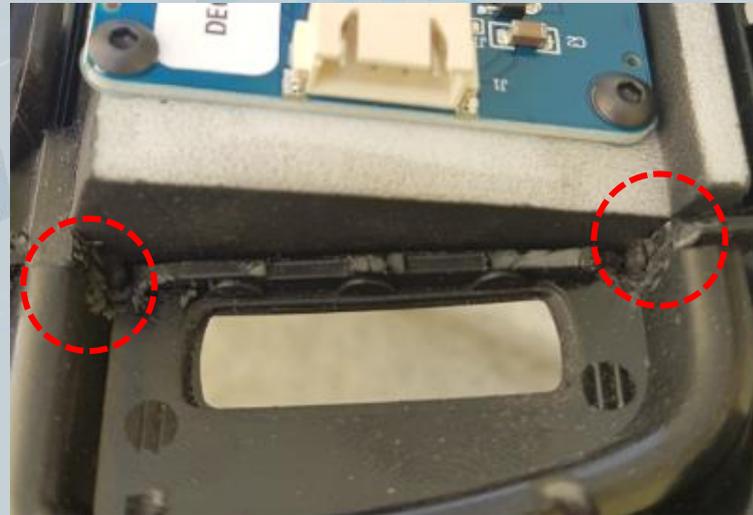
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Mounting display **only 4 zonen ventilation**

First insert the right part as far as possible. It takes some strength. The gap must be as small as possible.

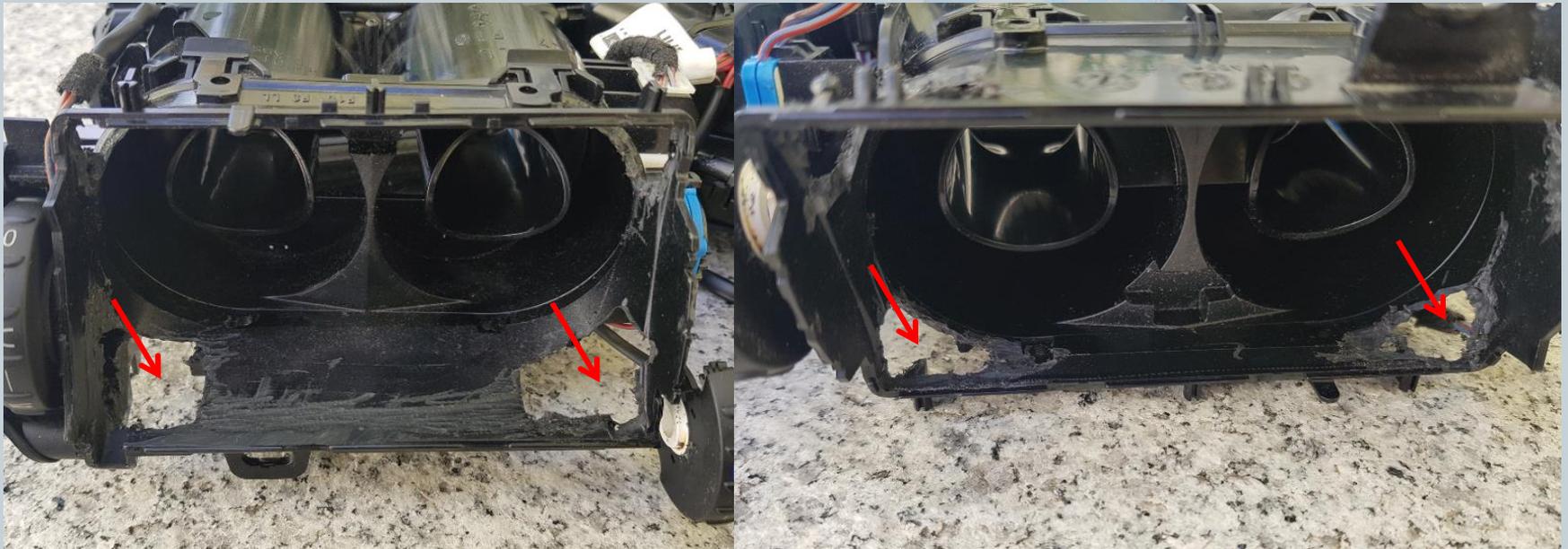


Now the left side can be snapped into place carefully. Apply a little super glue to the areas marked in red.



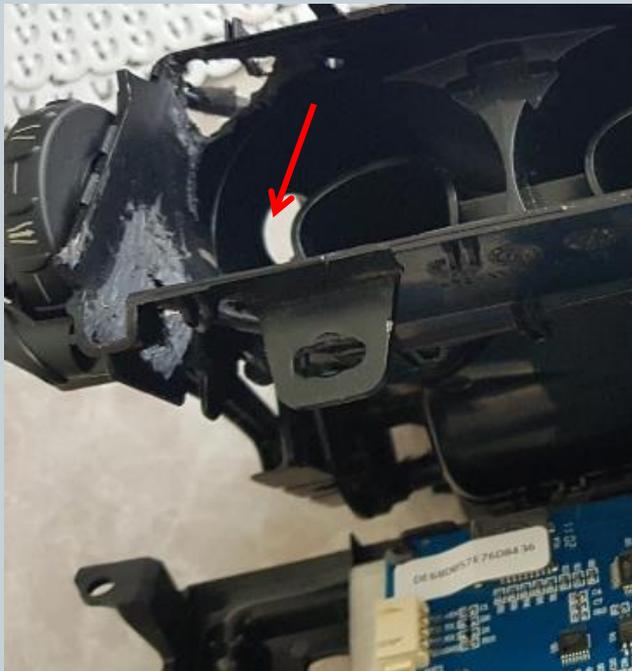
Mounting display **only 4 zonen ventilation**

The display does not fit without processing the rear part of the ventilation. The red arrows should clarify what needs to be worked on. Something has to be sanded down at these points.



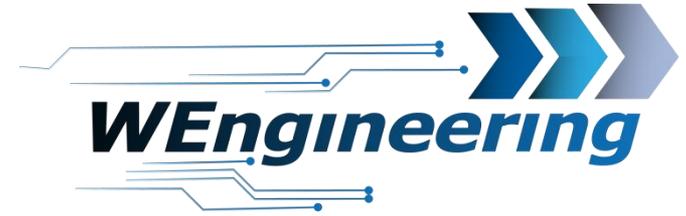
Mounting display **only 4 zonen ventilation**

A hole for the display cable must be drilled in the nozzle part. The hole should be so large that the display connector fits through.



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Mounting display **only 4 zonen ventilation**



Mounting display

Now everything can be built together. When assembling, make sure that all adjustment elements are in the correct position. **The fresh air flap must remain closed.** Let the cable look out in the driver's footwell.



The interior bar can be clipped in again. Starting from left to right. Pay attention to the correct position.

Connection of the WIC control unit

Loosen a screw in the carpet strip on the right side and unclip the strip. The foot rough cover is attached with 2 screws (red arrows). Loosen the screws and pull the cover down. Disconnect the OBD connector and the speaker.



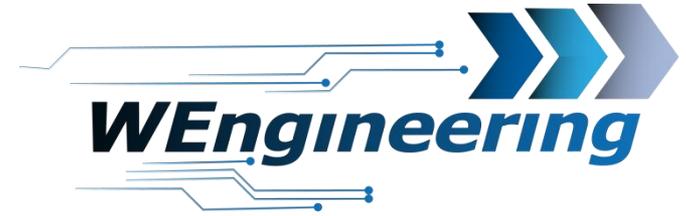
Loosen 2 screws on the storage compartment and pull out the compartment. The WIC control unit is located in this area.

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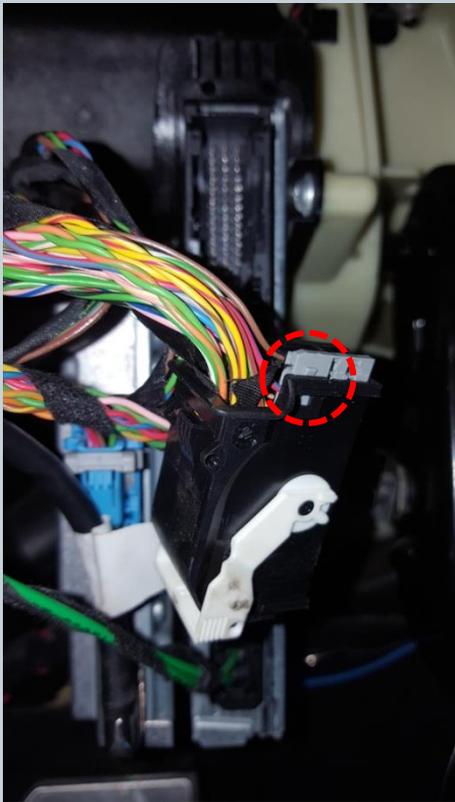
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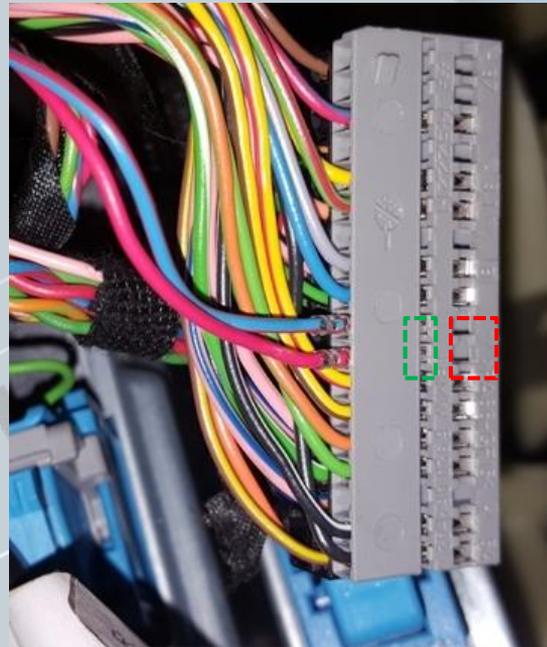


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Connection of the WIC control unit



Unplug the black connector and pull it out of the connector housing. The housing is locked in from both sides (marked in red).



Unpin the CAN cable (blue / red and red is twisted).

Blue / red = CAN high
red = CAN low

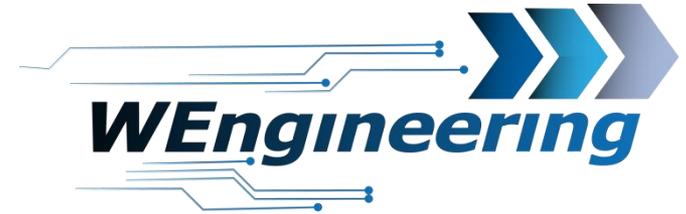
Use a small flat-blade screwdriver to push and pull on the pins on the side. First press and pull out on the red marked area, then on the green area. Carry out this process for each wire individually.

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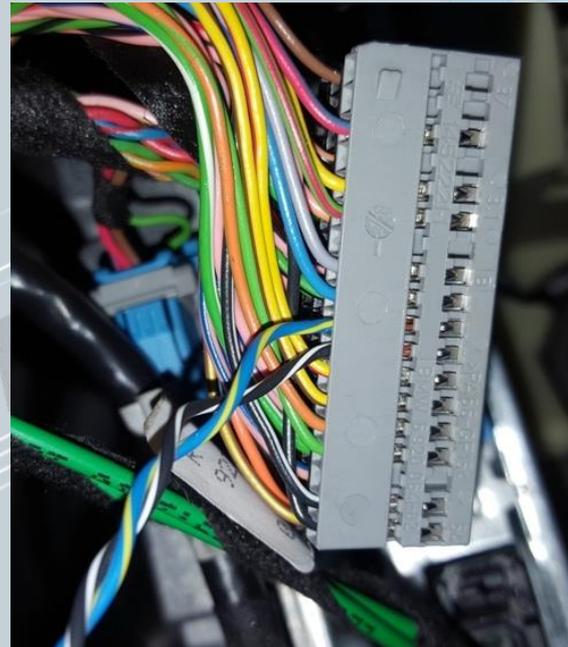


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Connection of the WIC control unit



Pin the spun CAN cable into the connector supplied. Thereby "blue / red" on pin_1 and "red" on pin_3. The numbering is marked on the connector.



Pin the supplied CAN cable according to the picture.
Blue / red = CAN high
Red = CAN low

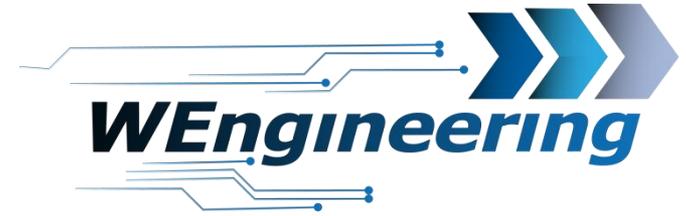
Attention: The colors of the CAN line have changed
(new: blue / red and red)
(old: blue / yellow and black / white)

Manual instruction of WIC + Display

BMW Fxx 5/6 Series

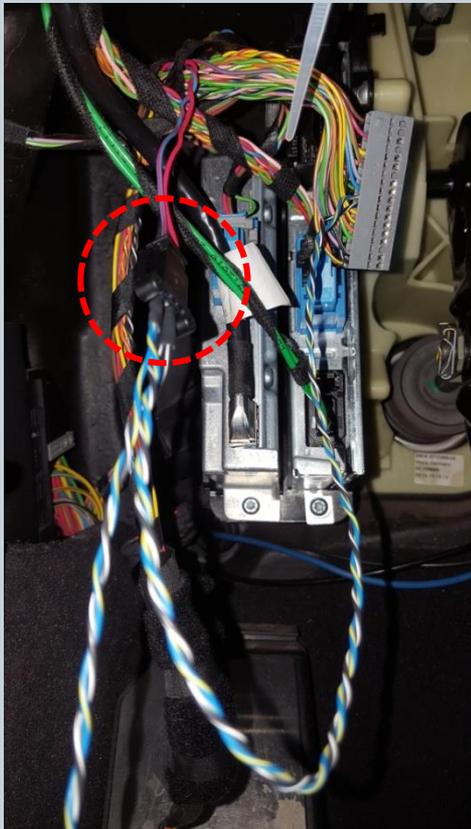
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Connection of the WIC control unit



Connect the plugs (marked in red). The connector housing can be reinstalled and finally plugged back into the control unit.

Attention: The colors of the CAN line have changed
(new: blue / red and red)
(old: blue / yellow and black / white)

Connection of the WIC control unit

The supply for the WIC control unit can be taken from the cigarette lighter. Secure the supply with a 15A fuse! The cigarette lighter socket is switched off in the idle state. Another source of supply can be used. It is important to use a switched source.



In the case of before the LCI model, the cup holder can be removed by simply pulling upwards. At the LCI the center console has to be removed to get the cigarette lighter. The center console is fastened with a screw.

Connection of the WIC control unit

The WIC control unit is attached to the carrier in the driver's footwell with a cable tie
Connect the two plugs to the WIC control unit and make sure that the plug side of the WIC control unit is oriented towards the motor.

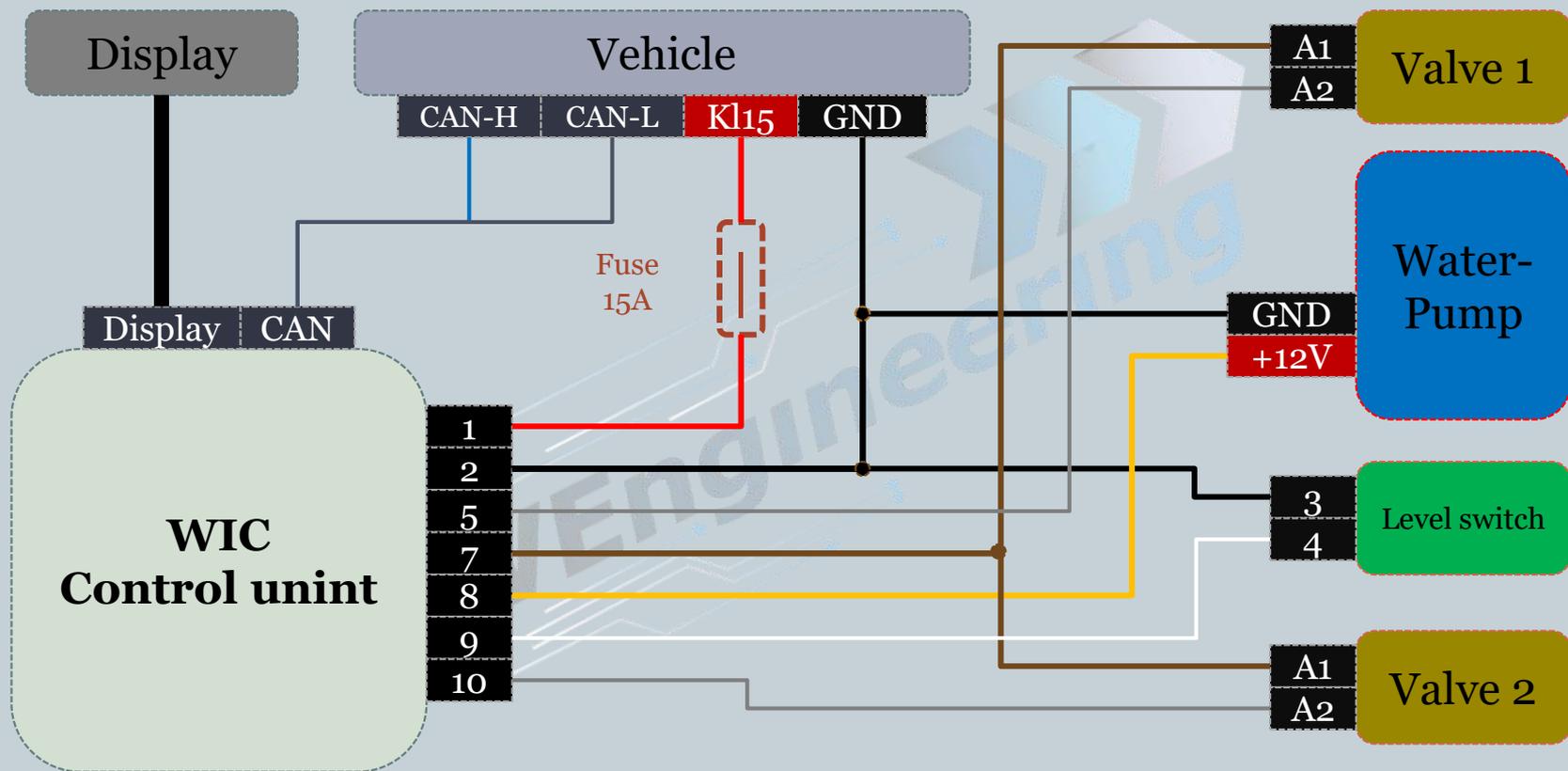


Connection of the WIC control unit

The USB connector can be brought out in the storage compartment. The existing opening should be expanded to a USB connector size. Finally, the footwell cover can be reinstalled.



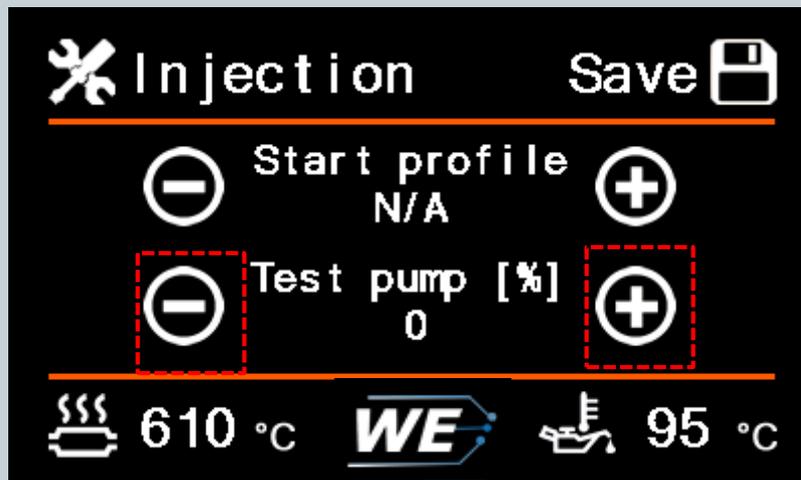
Control unit connection diagram



Attention: Please use switched supply for the control unit!

System Test

1. Screen Functions -> Setup -> Injection



In this menu it is possible to check the functionality of the system and to make sure that the connection of the pump and the valves (if installed) was correct. Please disconnect the pressure line from the injection nozzle first and place the pressure hose in a small container. After activating the test function, liquid should come out of the pressure line.

Each time you press "+", the injection quantity increases by 10%. The pump and the outputs for the valves are activated. The test function will automatically reset the drive to 4s if no further action is taken.

Important!

After installing the data display, the diagnostics interface is permanently blocked. This means that no communication via OBD to the engine control unit is possible. Programs such as EDIABAS, ISTA, INPA report an error while establishing a connection. In order to release the diagnostics interface, only "Car Service" has to be set to "On" before starting the engine in the setup menu. To retain the setting even after a restart, the memory function must be performed. This is recommended before you visit the workshop.



Adjust the display brightness for night design

The display brightness is controlled centrally via the ambient lighting. For a perfect display brightness we recommend the following setting. In absolute darkness, turn the rotary control for the central lighting back until you will get a value between 25 and 37.



MAF [g/s]:	340	Inject [%]:	65
Boost [bar]:	1,25	G [m/s ²]:	2,35
Lambda:	0,91	Exhaust [°C]:	452
Batt [V]:	14,23	Torque [Nm]:	467
Fuel [bar]:	159	Intake [°C]:	37
Pedal [%]:	27	Lux [%]:	27

 65 °C   95 °C