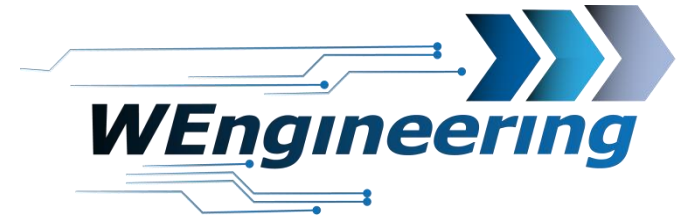


Installation instruction Silver/BlackBox

BMW 5 series E6x

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Dismantling the interior trim

Carefully loosen the interior trim. Beginning from the passenger side.



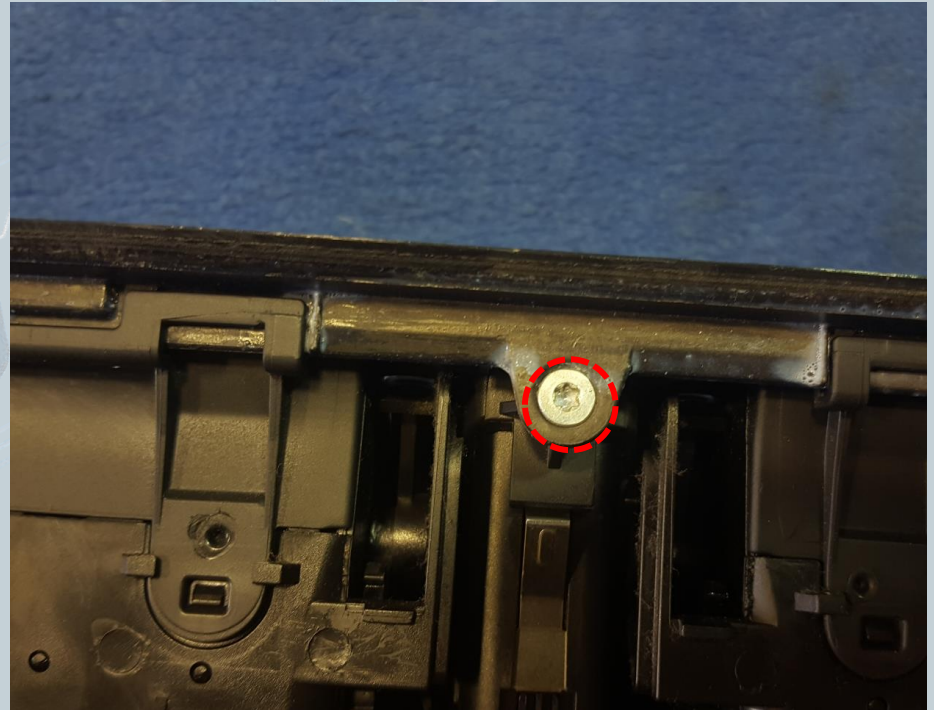
Dismantling the interior trim

Pay attention to the connectors.



Dismantling ventilation

Remove the 2 (8) nut and disconnect the vent from the interior trim.



Dismantling ventilation

Disconnect the ventilation unit from the interior trim. First the upper side.

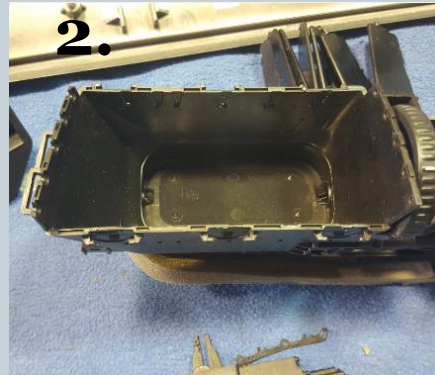
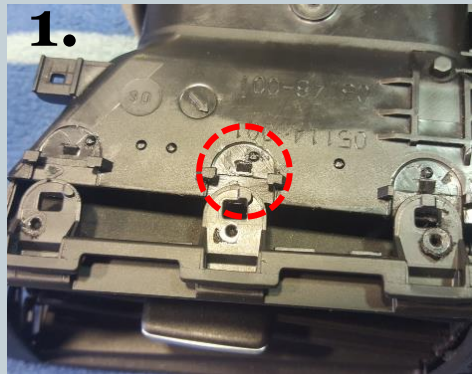


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Mounting display



1. Unlock locks to separate the front of the vent from the rear.
2. Remove all fins.
3. Drill a hole for the cable entry
4. Insert display. Right side first. Left side can be clipped.



Mounting display



Reinstall the front part of the ventilation. The bottom side first. Now the ventilation unit can be bolted to the interior trim again.



Connection of the control unit

Remove the panel and the glove compartment in the footwell on the passenger side.
Lay the cables in the footwell accordingly.

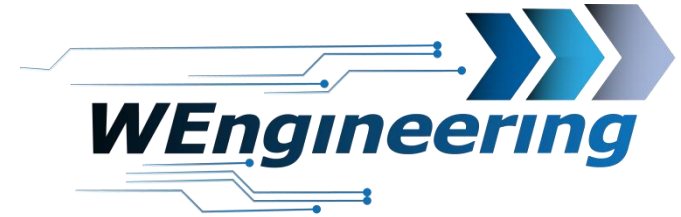


Installation instruction Silver/BlackBox

BMW 5 series E6x

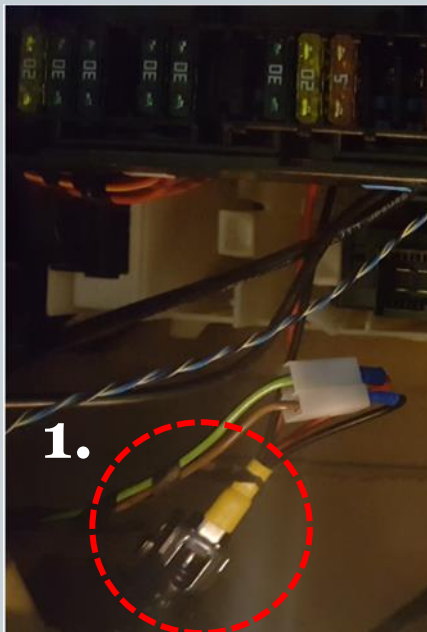
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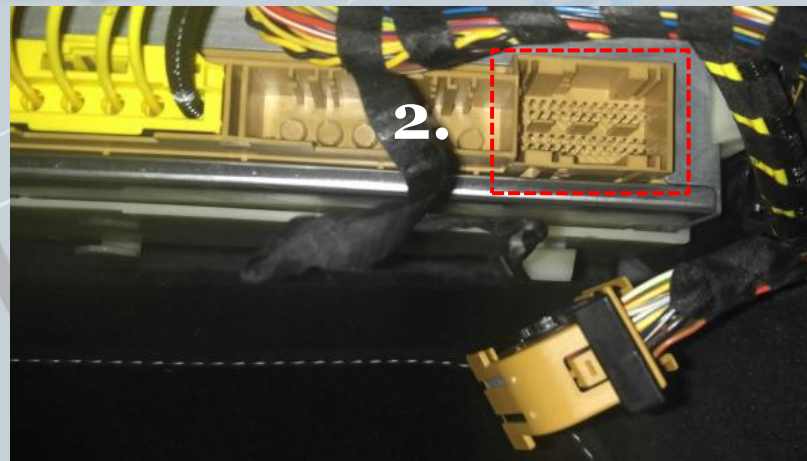
10

Connection of the Silver/BlackBox control unit



1. The supply for the control unit can be taken from the 12V charging socket.

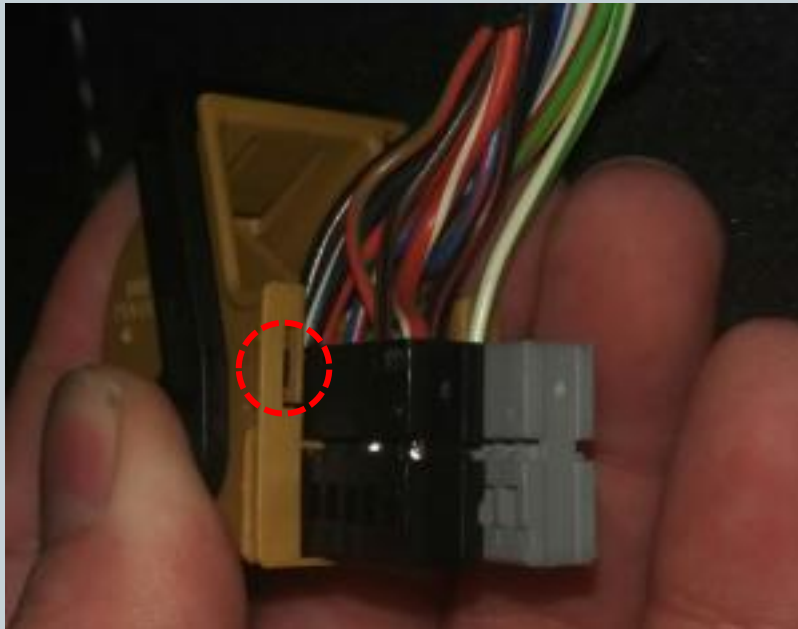
Depending on the equipment, there is one directly in the foot area on the passenger side. If another source of supply voltage is used, pay attention to choosing the correct ground (-) point. The plus (+ 12V) must be switched, e.g. by ignition plus and must be protected with at least 15A.



2. Remove connector

Connection of the control unit

Disconnect the plug and pull out the plug housing. The case is locked on both sides (marked in red).



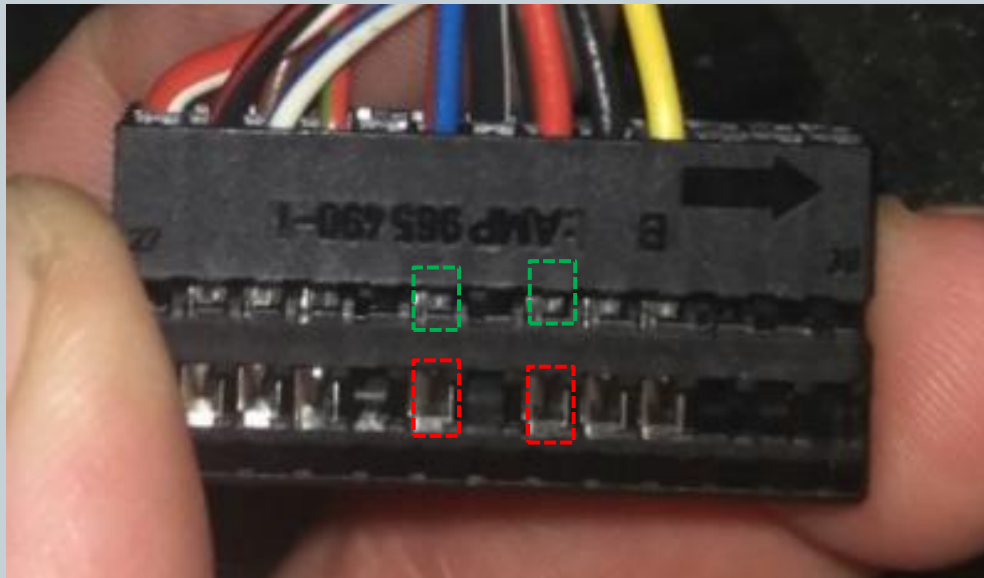
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Connection of the control unit



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

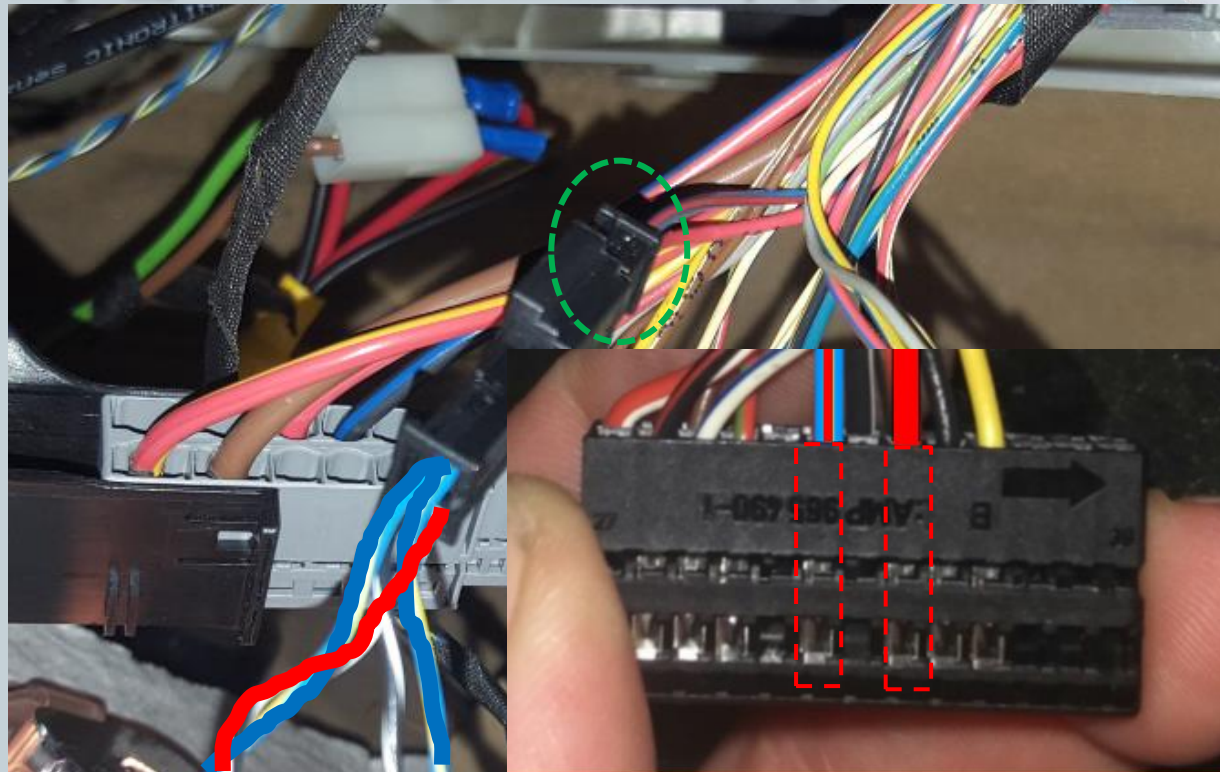
Blue / red = CAN-High = pin 32

red = CAN low = pin 34

Use a small flat-head screwdriver to press and pull on the pins. Press first on the red marked area and pull out, then on the green area. Perform this procedure for each wire individually.

Connection of the control unit

Insert the spun CAN cable into the plug provided. Thereby **"blue / red" on pin_1** and **"red" on pin_3**. The numbering is marked on the plug (marked in green)..

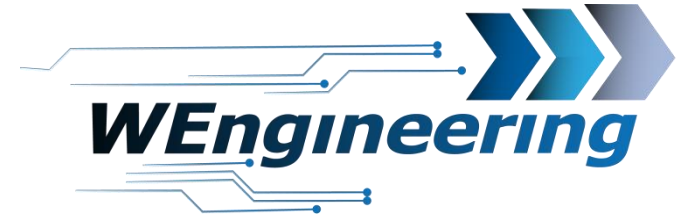


Connect the supplied CAN cable as shown in the picture (Highlighted in red).
Blue = CAN-High = pin 32
Red = CAN-Low = pin 34

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Mounting control unit

The control unit is placed in the footwell of the passenger side. The installation position must be selected according to availability of space. Connect the two plugs to the control unit.



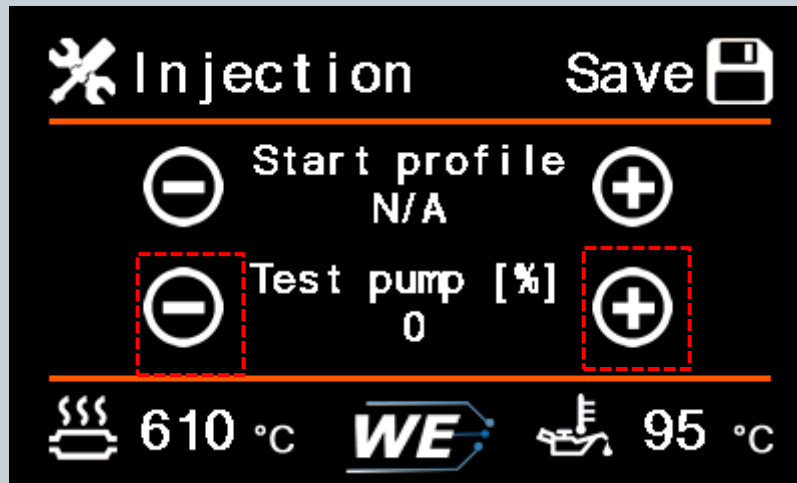
Important!

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.



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 done correctly. **Please disconnect the pressure line from the injection nozzle beforehand and place the pressure hose in a small reservoir.** 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 stop after 4s if no further action is taken.**

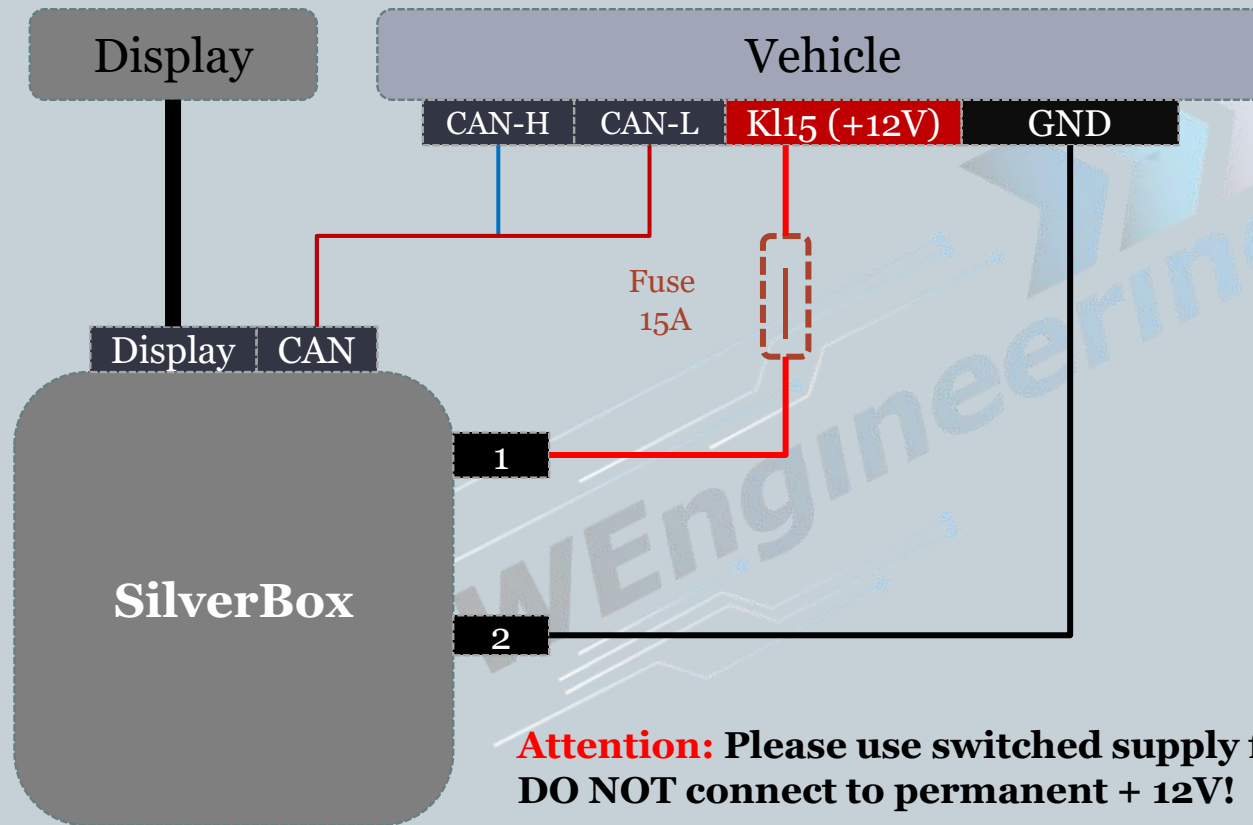
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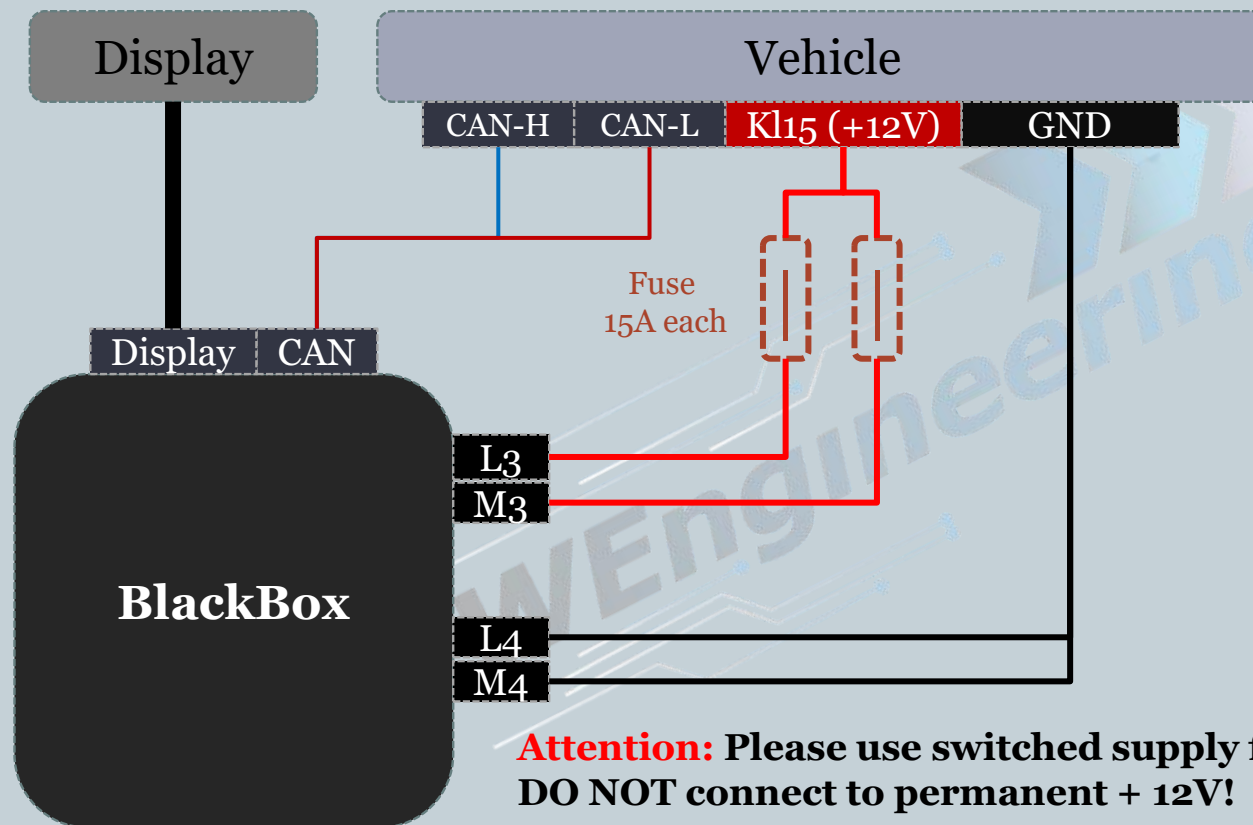
Datum:02.10.2021

SilverBox connection diagram on the vehicle side



Attention: Please use switched supply for the control unit.
DO NOT connect to permanent + 12V!

BlackBox connection diagram on the vehicle side

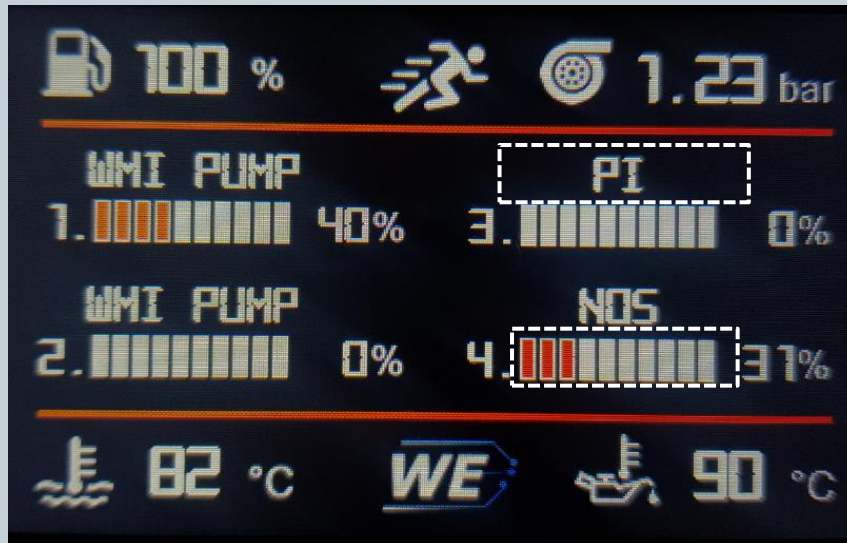


Attention: Please use switched supply for the control unit.
DO NOT connect to permanent + 12V!

System test

1. Screen Injection (PWM-Test)

The BlackBox control unit has 4 PWM outputs, the SilverBox 2 PWM outputs. In this menu the status of the outputs can be viewed and put into a test mode.



1. Which function was configured for the respective PWM output in the software.

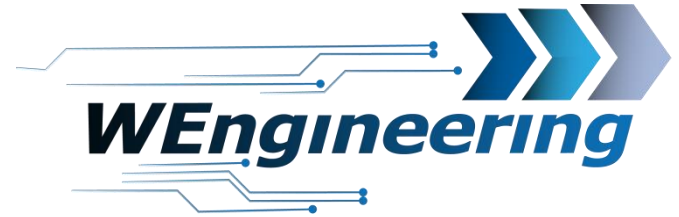
Test function activation:

To activate the test function, press to the name of the respective PWM output. After confirmation, the name changes to "TEST". Deactivation is done in the same way. Each time you press the bar, the value increases by + 25%. After 4s the control will automatically set to 0%.

Installation instruction Silver/BlackBox BMW 5 series E6x

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Adjust the display brightness

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.

