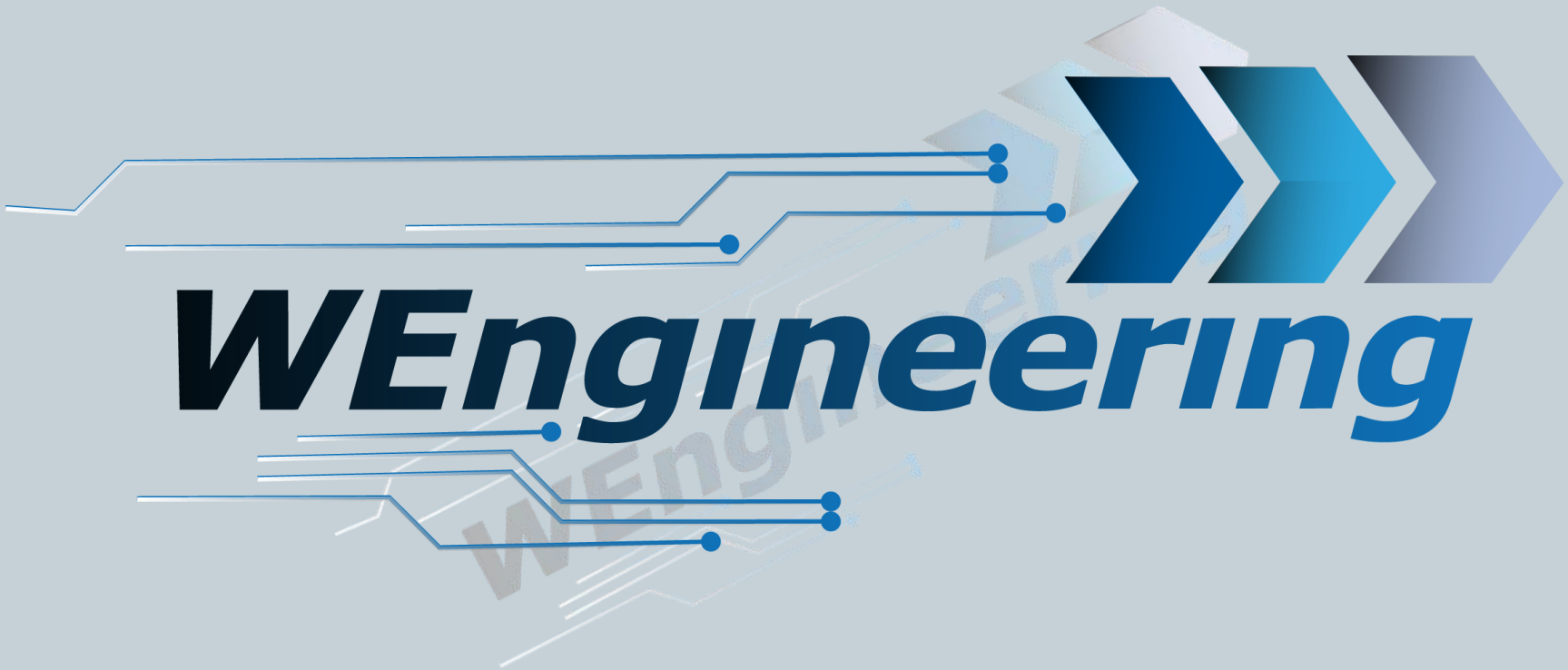

WEngineering

BMW E9x

BMW Dienste
Fahrzeuginfo
Längengrad:
11° 26' 25"O
START
STOP
ENGINE
108 °C
BOOST
43 °C
OPEN
0 Km/h
664 rpm
0.01 bar
368 °C
WE
96 °C
DTC

Dismantling the interior trim

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

Dismantling the interior trim

Pay attention to the connectors.

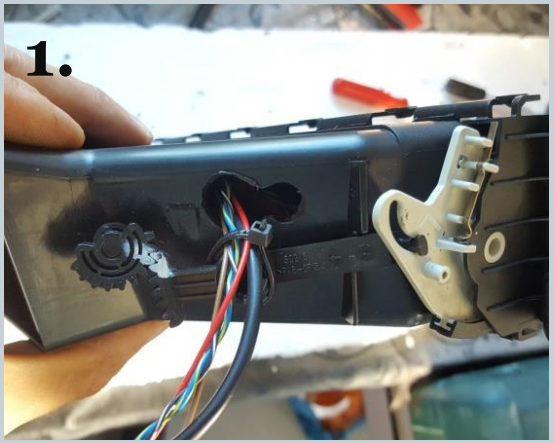
Dismantling ventilation

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

Mounting display

1. Remove the DTC button with a pressure on the back
2. Remove slats (horizontal). To do this, unlock with a flat-head screwdriver to the right out of the catch.
3. Remove slats (vertical)

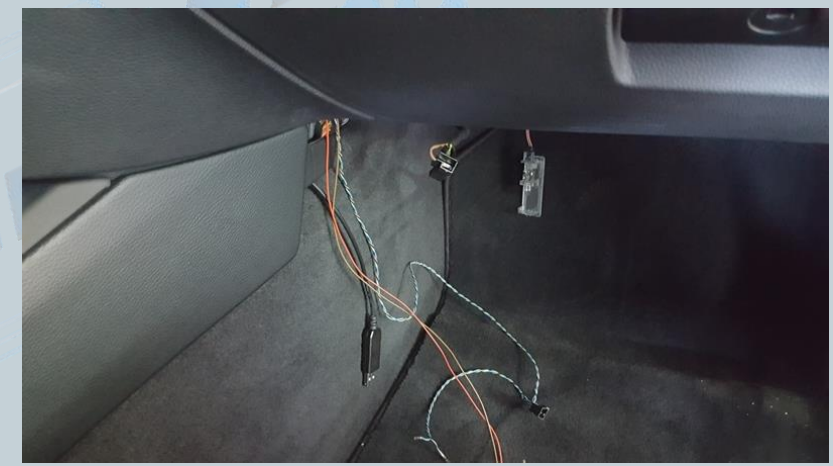
Mounting display



1. Drill slot for the cables. After mounting the display, fix the cables with a cable tie.
2. Connect display with plug and insert, left side first.
3. Insert the Dtc button again.

Mounting display

Remove the panel in the footwell on the passenger side. This is fastened with 2 Torx (T20) screws. Then carry out the cables accordingly.
For the variant with water injection, the display is only connected with a cable (deviating in the picture).



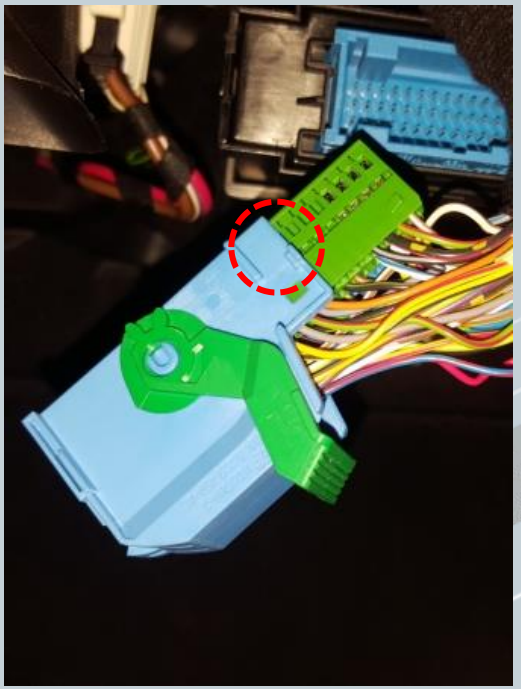
Connection of the display

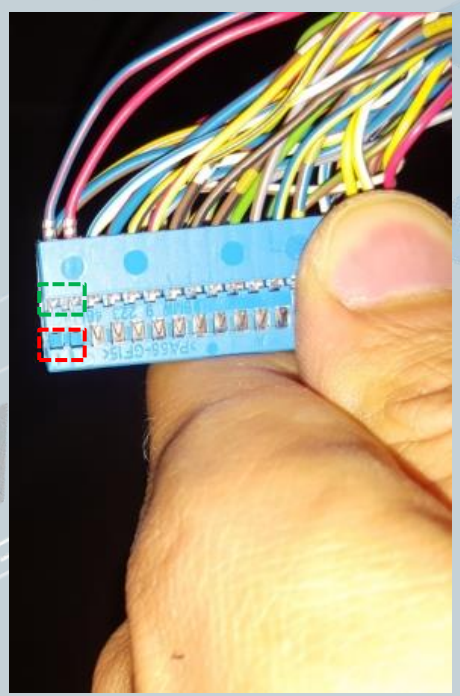
The junction box with blue and black plugs is under the glove compartment.
Please switch off the ignition and remove the key.

Pin	X14271 54-polig blau		Kabelfarbe	
1	PT-CAN_HIGH	Blue/Red	Blau/Rot	0.35mm²
2	PT-CAN_LOW	Red	Rot	0.35mm²

Connection of the display

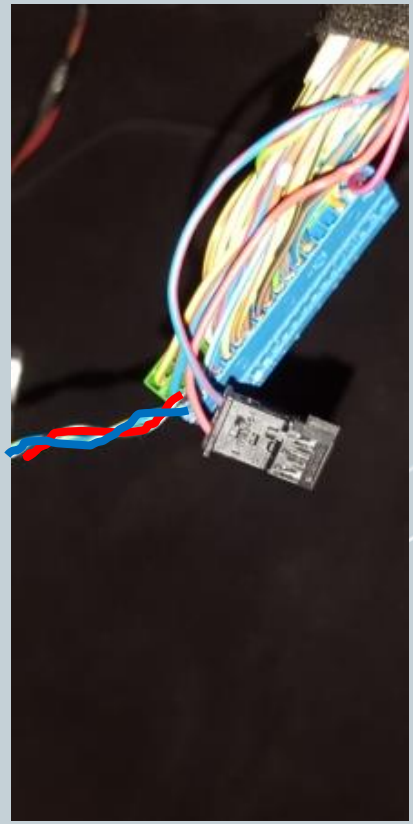
Den blauen Stecker abstecken und aus dem Stecker Gehäuse raus ziehen. Das Gehäuse ist von beiden Seiten eingerastet (rot markiert).



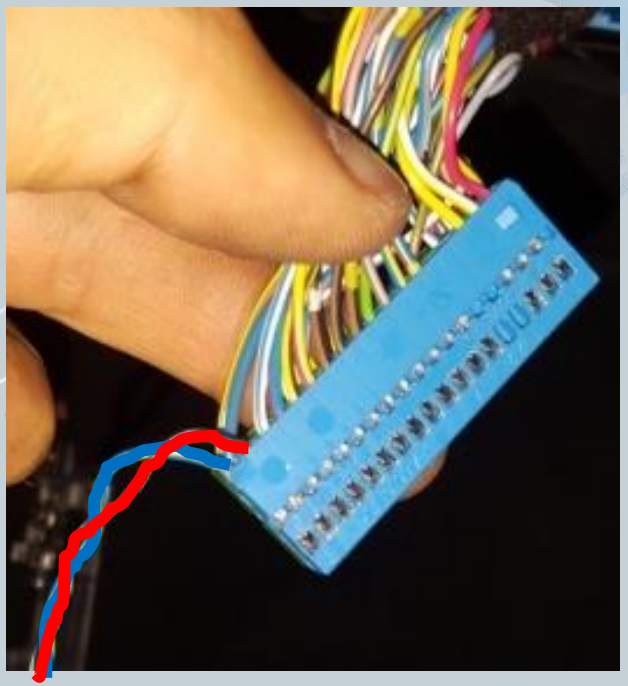


Disconnect the CAN cable (blue / red and red is twisted).
Blue / red = CAN-High
red = CAN low
Use a small flat-head screwdriver to press and pull on the side of the pins. Press first on the red marked area and pull out, then on the green area. Perform this procedure for each wire individually.

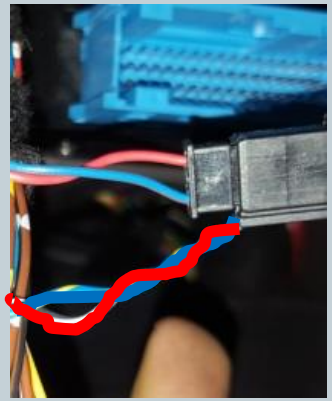
Connection of the display



Insert the pinned CAN cable into the supplied plug. Thereby "blue / red" on **pin_1** and "red" on **pin_3**. The numbering is marked on the plug.



Connect the supplied CAN cable as shown in the picture.
Blue / red = CAN-High = Pin1
Red = CAN low = Pin2



Connection of the display

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

The wiring diagram for the control unit is on the last page!

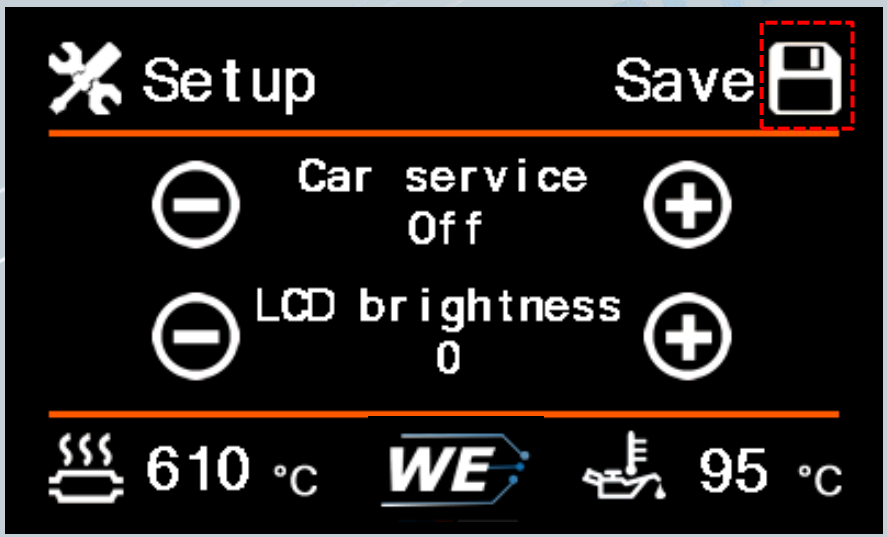
Internal

Connection of the display

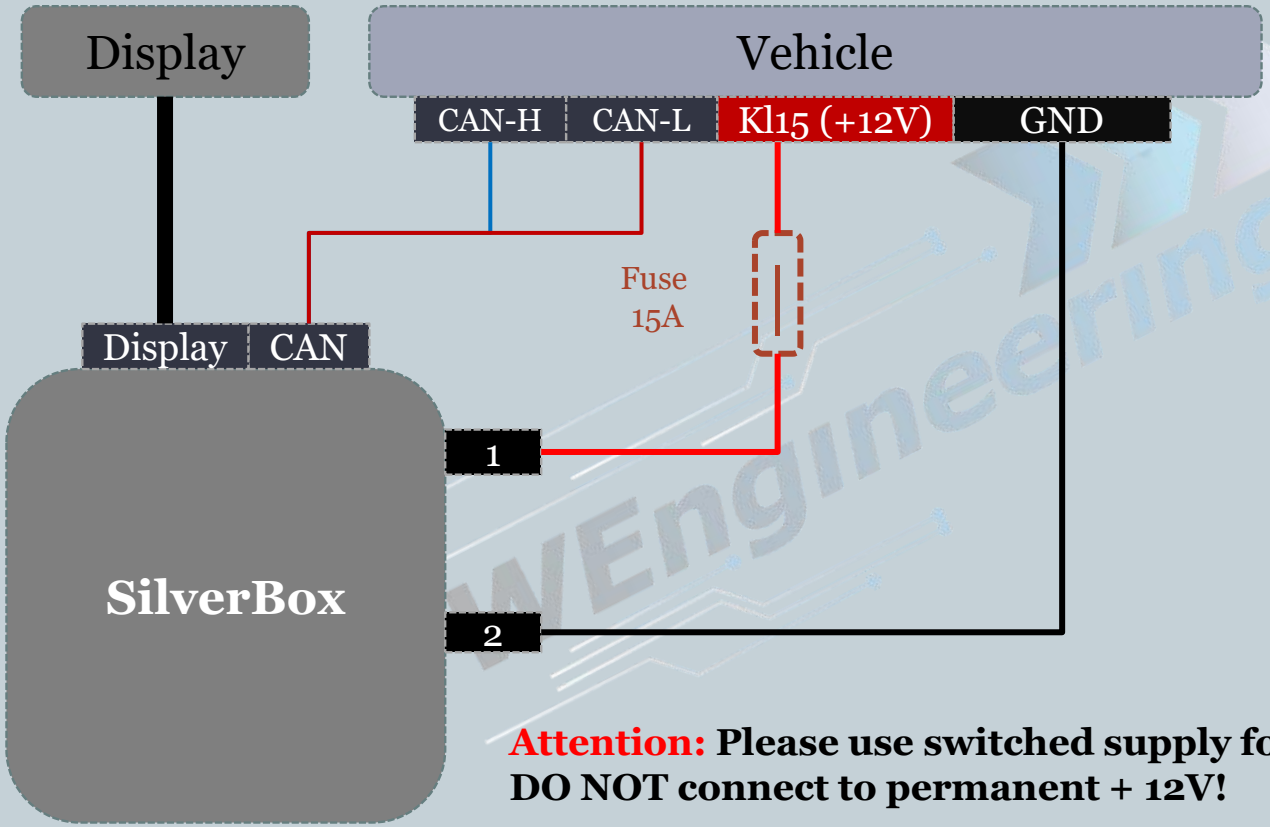
The control unit is placed in the footwell of the passenger side. The installation position must be selected according to availability of space. If necessary, the glove box must be removed. Connect the two plugs to the control unit.

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.

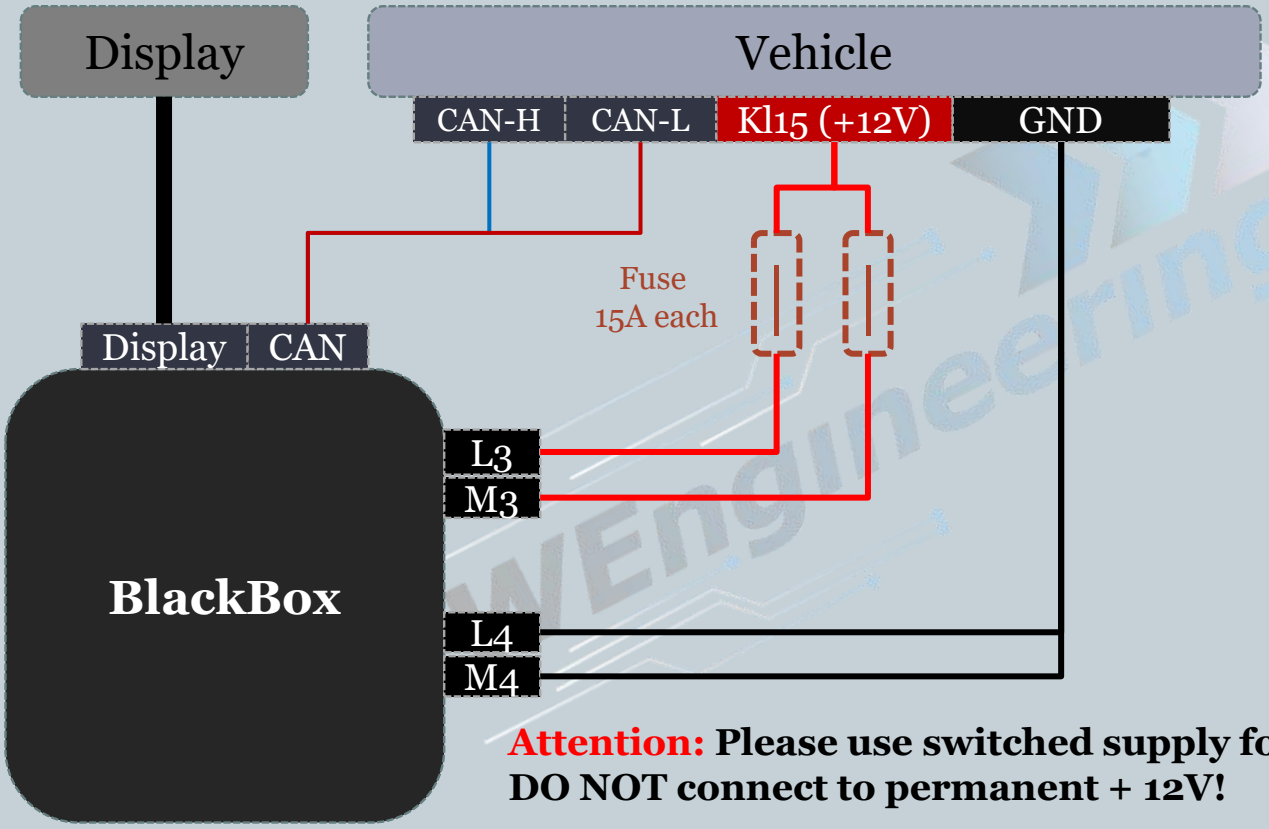


SilverBox connection diagram on the vehicle side



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

BlackBox connection diagram on the vehicle side

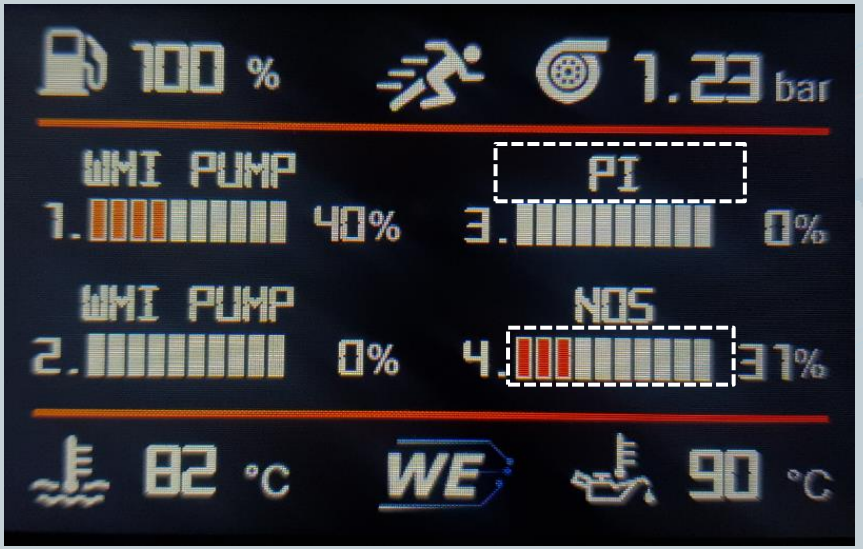


Attention: Please use switched supply for the control unit.
DO NOT connect to permanent + 12V!

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%.

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.