



Installation instructions for your MFD28 in a BMW E46

Beforehand

Thank you for your purchase of your CANchecked display for a BMW E46.

With the E46, a connection to the OBD port is not possible. So you have to remove the Can Bus from the speedometer, control unit or ABS, the installation and connection is described below.

During the development of the product, attention was paid to the highest accuracy of fit and quality. The displays were test-mounted with these instructions by several test persons and continuously improved so that there were no problems during the conversion.



General information

The displays are very sensitive devices. It is necessary to act with extreme caution. Heavy pressure on the case or display should be avoided.

CANchecked assumes no liability for this modification or for damage during the conversion or during operation. The instructions were created to the best of our knowledge and belief.

Required tools

- Plastic pry tool (sold separately)
- Phillips screwdriver
- Torx 15 with ratchet

Removal of the aperture

To disassemble the ventilation panel, it is first necessary to remove the surrounding panels. The corresponding passages can be found in the following pictures.



After the panels have been removed, the two screws that hold the ventilation grille can be removed. The ventilation grille can then be pulled out and only hangs on the cable hoist.





Now all you have to do is dismantle the cable to completely remove the panel and prepare it for the installation of the display.



Removal of the speedometer

The speedometer is fixed to the dashboard with two Torx screws. Once these are released, the speedometer can be tilted towards the driver.

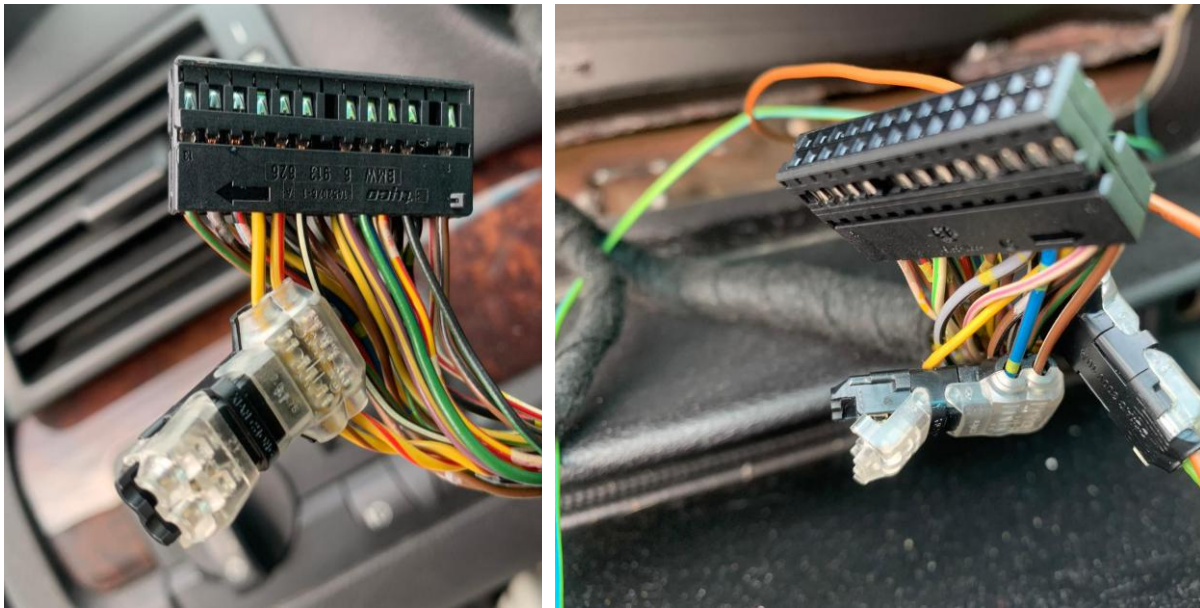


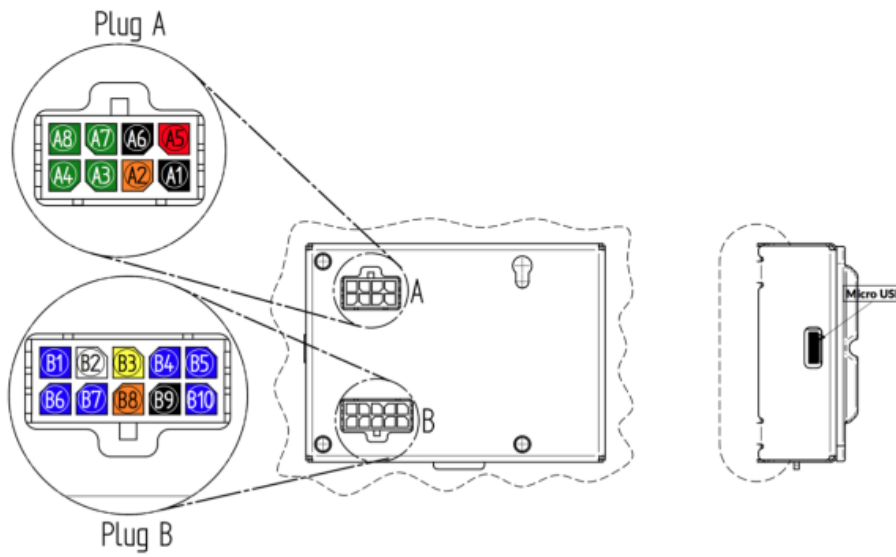
Once you have detached the speedometer from the dashboard, you have to loosen the clip plug on the back by pressing down the tab and flipping the bracket.



Connection

Now you can push the insert out of the plug. On the plug itself, you can splice Can High (pin 9), Can Low (pin 10), ground (pin 1) and 12 volts (pin 5). Lead these four spliced wires to the display and pin the wires into the Molex connectors according to the pinout (please note the installation direction here!) Can High and Low are designed as twisted wires in order to minimize interfering signals.





Plug A: Molex 43025-0800 Plug B: Molex 43025-1000 Crimp: 43030-0001

PLUG	A1	A2	A3	A4	A5	A6	A7	A8
A	GND	5V	AIN4	AIN3	12V	SGND	AIN2	AIN1

** future
Application*

PLUG	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10
B	RX2*	CANH	CANL	SHIFT	RX	TX2*	LOWSIDE	5V	OGND	TX

Installation of the bezel

The panel is welded, so the slats have to be bent and then taken out to the front. As soon as you have removed all the slats and worked a slotted hole for the cables and the USB into the ventilation duct, you can plug in and install the vehicle-specific cover including the display. The USB cable is routed to an easily accessible place, for which the side panel of the center tunnel has proven its worth. Here you can hide the cable and quickly pull it out from under the fairing if necessary. Your display comes with the standard firmware and the TRX is the S-E46(-M).TRX. Can Speed to 500 and Can Term must be turned off. Assembly is done in reverse order.

Final

We hope you have as much fun with your CANchecked display as we do. If you have any questions, you are welcome to contact us via the ticket system (<https://www.canchecked.de/ticket>) and discuss your concerns with us.

We have also created a group for the community on Facebook, where you can exchange ideas with other users and find the solution to one or the other question:

<https://www.facebook.com/groups/CANchecked/>