Installation instructions for your MFD28 in the BMW X3 X4 G01 G02 F97 F98

First of all

Thank you for your purchase of your CANchecked display for the BMW X3 and X4.

During the development of the product, attention was paid to the highest accuracy of fit and quality. The display has been test assembled by several test persons using these installation instructions and continuously improved so that you have no problems with the conversion.

General information

The display is a very sensitive device. One should act with extreme caution here. Any pressure on the case or the display itself must be avoided.
CANchecked assumes no liability for this conversion or for damage during the conversion or during operation. The instructions were created to the best of our knowledge and belief.

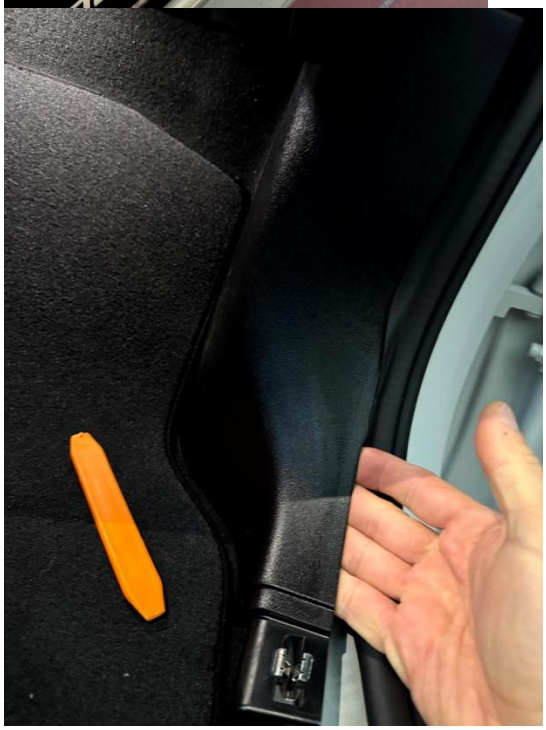
The conversion time is about 1.5 hours for an experienced mechanic.

Required tools

- Small flat-head screwdriver
- Torx 20 Screwdriver
- Assembly tool (sold separately)
- 10mm Nut with Ratchet and Short Extension
- 10mm drill bit
- Small file

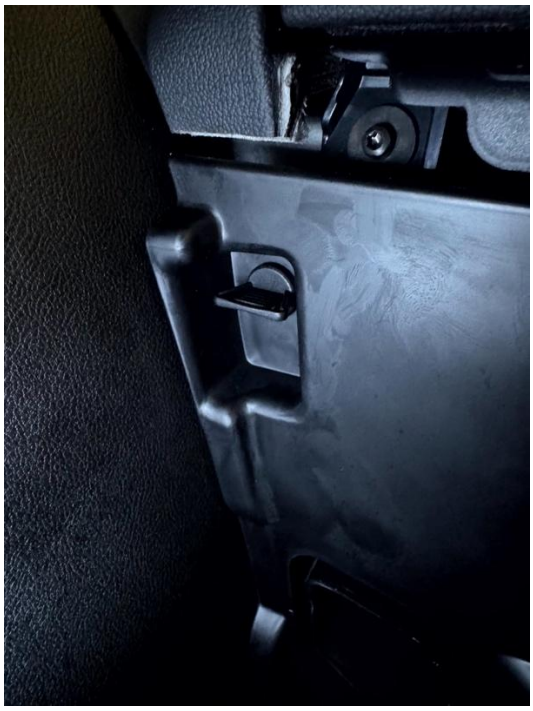
Preparing the interior

In the first step, the sill strip on the passenger side must be dismantled. To do this, carefully pry off the fairing with a plastic lever (CANchecked disassembly tool sold separately). And then pull off the front fairing from the side. If the clips get stuck in the body, remove them with pliers and clip them back into the fairing.



Now the lower footwell trim can be removed. To do this, the two locks must be rotated by 90 degrees. And after the initial pulling down, the footwell lighting still has to be

unplugged. A small Phillips screwdriver is suitable for this purpose to be able to overcome the lock.



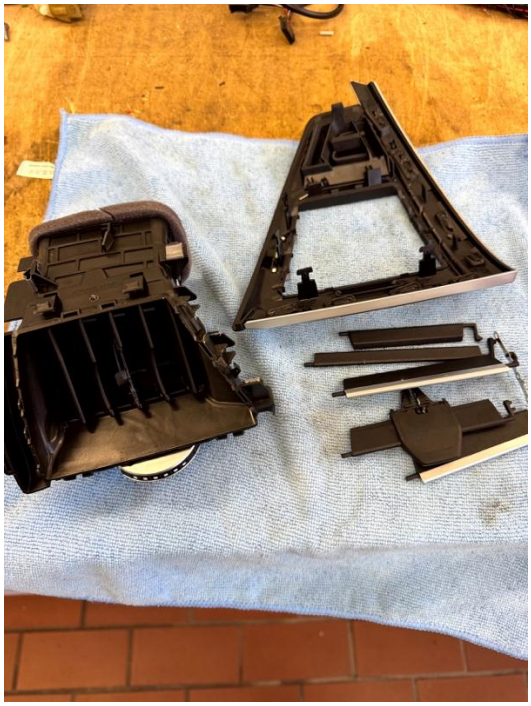
On the driver's side, the side panel of the dashboard must be dismantled. To do this, please move the disassembly tool behind the panel and clip it off.

In the driver's footwell, the upper footwell trim must be loosened. To do this, please turn the two release buttons 90 degrees so that the upper footwell trim can be pulled down a little after turning. With a Torx 20, the side screw on the center tunnel still has to be removed so that the fairing can be pulled down a little. The whole thing should then look something like this:

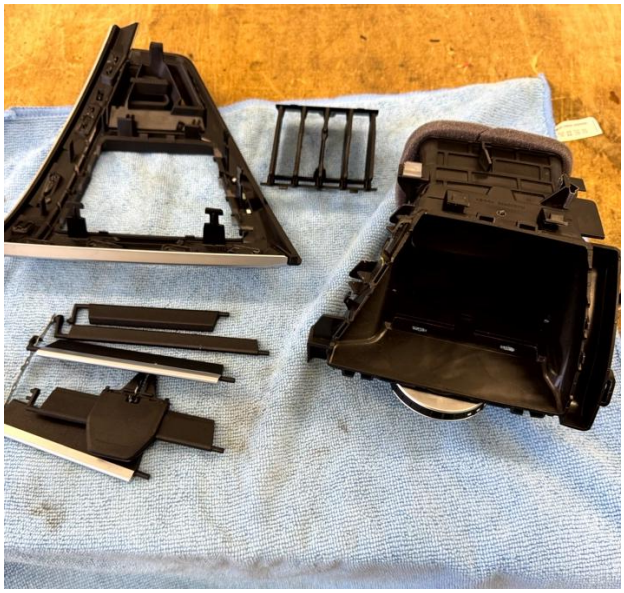
The air vent is only clipped and can also be levered out of the dashboard with a disassembly tool.

Disassembling the nozzle

The nozzle is only lipsed. The six retaining lugs can be easily levered upwards with a flat screwdriver to slide out. In total, there are two retaining lugs on the left, two on the right and two on the bottom.
Once you have removed all retaining lugs, you can remove the sheet to the front, and the horizontal slats will detach on their own.



To remove the vertical slats, you need to pry the retaining rail with a flat screwdriver, and then remove the unit to the front.



Before you install the display directly, please drill two
10mm holes close together to be able to use them afterwards with the file to a slotted hole to pass the cables.

Connect and lay cables

Once the panels are out of the way, the connection cable must now be routed from the passenger footwell via the centre tunnel towards the air vent. It can be threaded through the dashboard after the center tunnel and should look out of the side of the dashboard at the end:

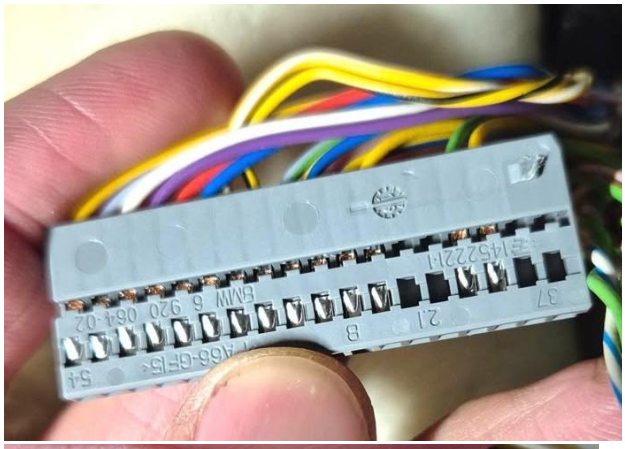
When you are ready, the CON8 connector must be unplugged.
To release the Connector 8 , the locking lug must be pressed in and the lever flipped. With the lever flipped, the connector lifts out of the board. Now you can use a fine screwdriver to loosen the latch on both sides of the pin carriers and push the pin carriers out of the housing (the colors of the pin carriers may differ!).

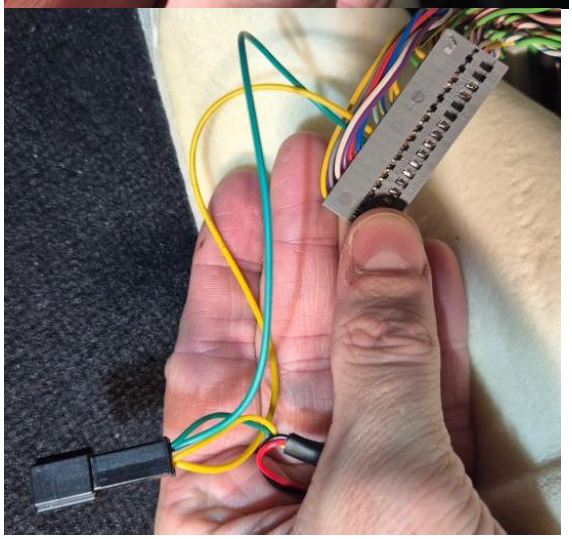
Please use the single-row pin carrier to connect the Can-Bus cables.
At pin 48 there is a yellow/white vein and at pin 47 there is a yellow/black vein.

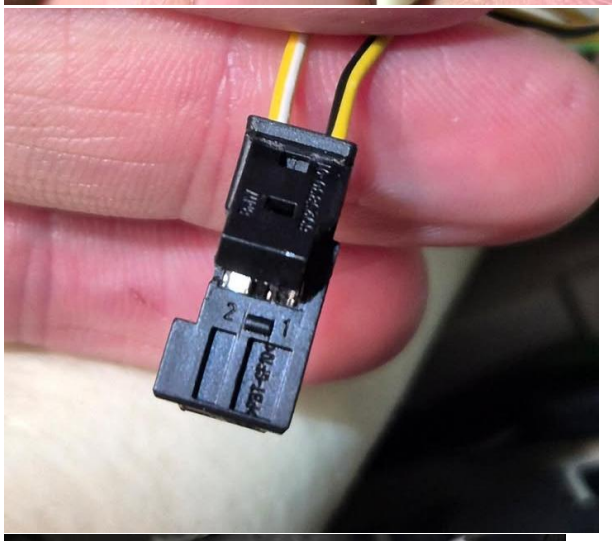
If the colors match, pin the yellow/white wire to slot 48 (Can High) and pin the green wire of our wiring harness to this slot. Pin the previously pinned yellow/white wire into pin 2 of the individual connector.

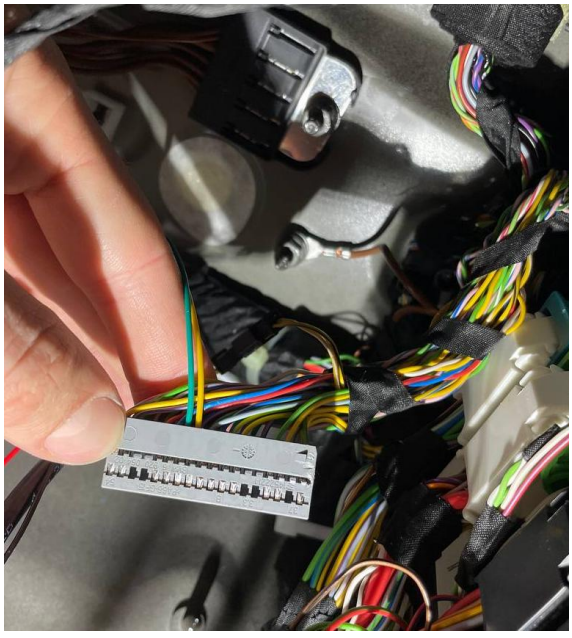
Now continue with the yellow/black line on slot 47 (Can Low). Pin them out again and plug them into pin 1 of the individual plug. Plug the loose yellow wire of the CANchecked wiring harness into the freed slot 47 of connector 8.

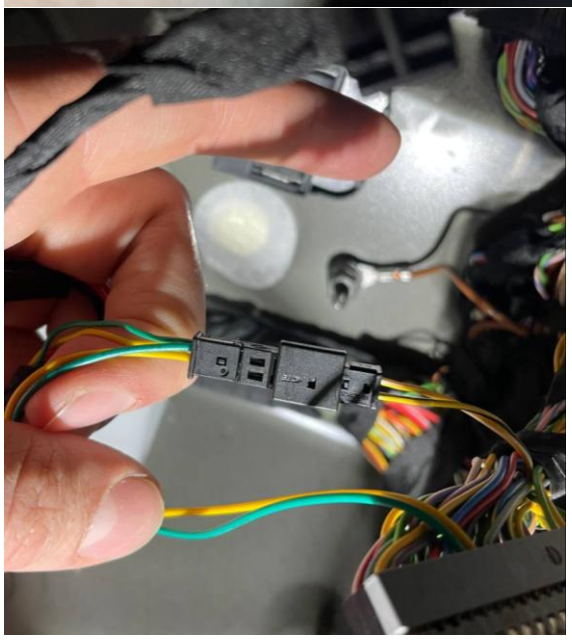
The whole thing should look like this:



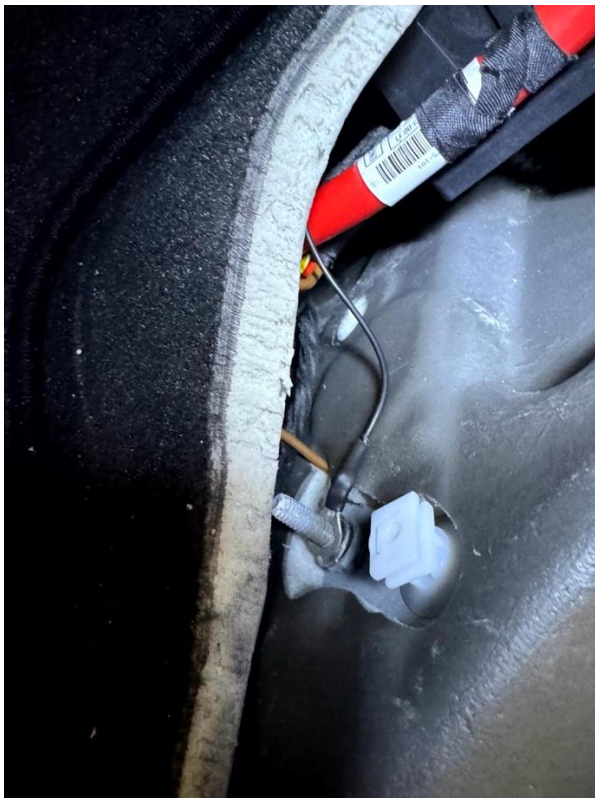


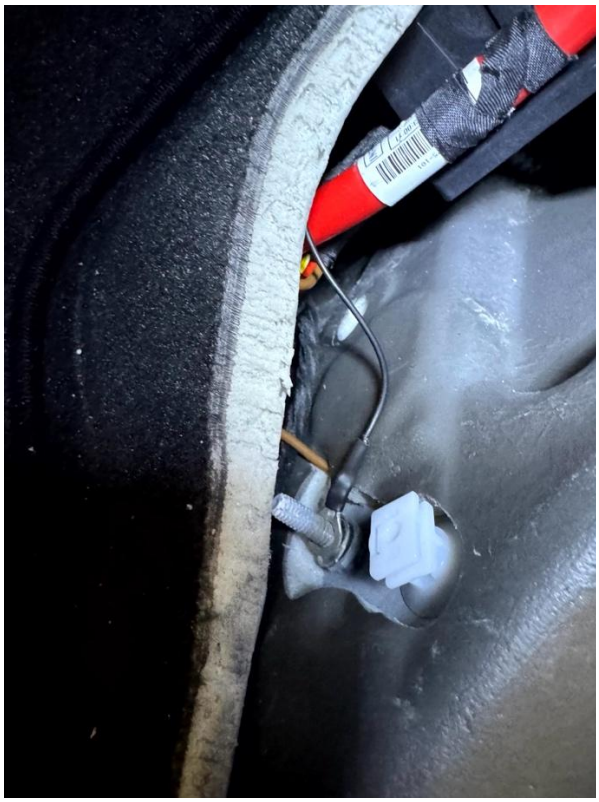






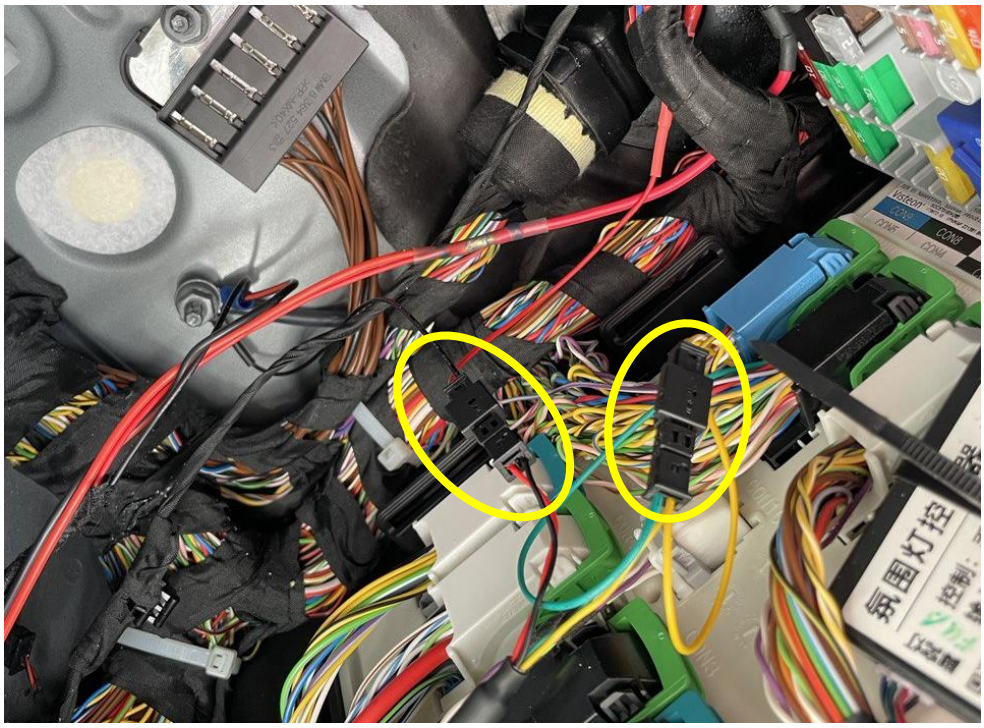
This completes the connection of Can High and Can Low. It continues with the connection of the ground and 12V ignition plus. The ground is connected to one of the ground points by means of a ring cable lug. To loosen it, a 10mm socket is needed. After the ring cable lug is placed at the ground point on the sill, please tighten the nut again!





The connection of 12V ignition plus is made via our fuse adapter directly to the fuse box above the junction box. Please compare the pictures to see which slot you need to use.

Now all you have to do is connect the connector housing of the black and red wire to the pigtail that you have previously plugged into the ground point and the fuse holder.



Now all you have to do is connect the USB and the CANchecked wiring harness to your display. To do this, please push the two Molex connectors and the USB cable through the previously made opening in the ventilation duct, plug them into the display and then place the display in the front panel and then carefully clip the channel and cover back together. Please make sure that all locking lugs are correctly fitted! Once

this has worked, you can clip in the bezel and check the display for function. If this is given, you can complete the vehicle and you're done.

USB tip: Some customers have routed their USB cable downwards next to the OBD2 port and attached it to the plastic flap with a double-sided Velcro strap. If you let the cable sag a bit, the Velcro strap will keep it hidden at the top, and for connection, you can detach it from the Velcro to connect it to the laptop.

We hope you have as much fun with your CANchecked display as we do. If you have any questions, please feel free 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/