Instructions for your MFD in a vehicle of the PQ34 platform

Beforehand

Thank you for your purchase of your CANchecked display.

The PQ34 platform includes the following vehicles:

- Audi A3 8L
- Audi A4 B5
- Audi TT 8N
- Seat Leon 1M
- Skoda Octavia 1U
- VW Golf 4
- VW New Beetle 1C

With the PQ34 platform, a connection to the OBD port is not possible. So you have to take the Can Bus from the speedometer, control unit or ABS.

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.

The following data is available on the display:

- Enginespeed
- Intake air temperature
- Coolant temperature
- Throttle position
- Speed (if ABS in CAN)
- Haldex state
- On-board voltage
- Oil temperature (on newer ME7.5)
- Boost pressure (not available for petrol engines, partly available for diesel vehicles)
- Performance Meter (over speed)
- Gear indicator (calculated from speed and RPM)

Can Bus Settings

Depending on the display used, different TRI or TRX files have to be used. However, common to all devices are the following settings:

- Can Speed: 500
- Can Term: OFF
- Can Filter: OFF

The appropriate file for the respective display can be found in the following list:

- MFD15 Gen1: Can Type: VAG
- MFD28 Gen1: VWAUDI.TRI
- MFD32 Gen1: VWAUDI.TRI
- MFD15 Gen2: S-VAG.TRX
- MFD28 Gen2: S-VAG-M.TRX or S-VAG.TRX
- MFD32 Gen2: S-VAG-M.TRX or S-VAG.TRX

Boost pressure indicator

In order to display the boost pressure despite the lack of a Can Bus message, the vehicle's own boost pressure sensor must be connected to one of the analogue inputs on the display. We recommend AIN4 for boost pressure.

The following steps must be performed:

- From the display, 2 wires must be pulled to the boost pressure sensor: sensor ground (SGND) and AIN signal (AIN4)

- The wires coming from the display are now spliced together with the wires of the sensor wiring harness: the sensor ground from the display with the ground of the sensor and the signal line from the display with the signal line of the sensor. The 5V power supply is still provided by the sensor wiring harness and does not have to be pulled separately from the display.

- The analog input is then calibrated by the sensor with the appropriate values. In the past, the following values have been established for many sensors: 0V -> 0.1 bar; 5V -> 2.51 bar

Analog Inputs

You can use the analog inputs to connect extensions. Various extensions are possible. If there is already an extension from us, you will find the product name as well as the recommended analog input on the display in brackets after the extension.

- Lambda Controller
- Exhaust gas temperature (TCC01; AIN2)
- Oil Pressure/Fuel Pressure (FLP01; AIN3)
- Oil temperature (NTC01; AIN1)
- Gearbox temperature (TCC01; AIN2)

If you want to connect more than 4 or 6 devices to the analog inputs, you can use our MCE18 – Can Bus Extension.

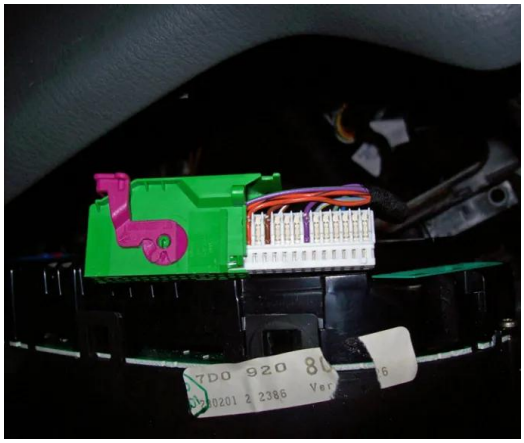
In the case of A4 B5 pre-facelifts, it may be that they do not yet have a Can Bus. With these vehicles, you can only use the analog inputs!

Connection on the speedometer

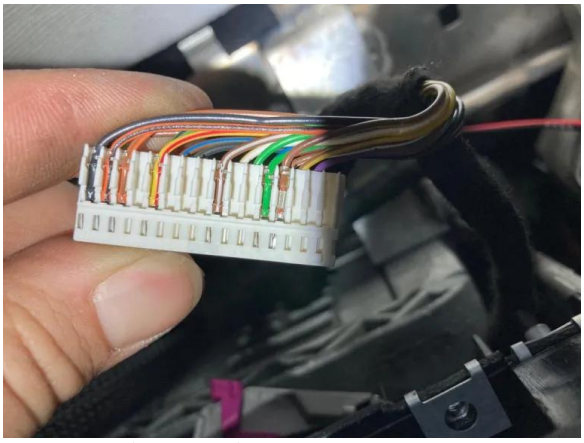
To connect, look for two twisted wires with the colors orange/black and orange/brown.

- orange/black is CAN-High and on the speedometer usually on pin 19.
- orange/brown is CAN-Low and on the speedometer usually on pin 20.

Below you will find sample pictures of the speedometer plug for different vehicles:



Golf 4



Audi RS4 B5(Pin 18/19)

Octavia 1U

Conclusion

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/