CAN CHECKED

Quickstart Guide for

MFD28/32 Gen2

(English)

Thank you for purchasing the MFD28/32 Gen2.

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Quickstart Guide

MFD28/32 Gen2

Be excited, here is your CANchecked display.

Developed with enthusiasm and passion, your MFD28/32 Gen2 is a small device, that gives you full access to your vehicle data. Please read this Quickstart Guide in its entirety. For more detailed instructions, please refer to the manual.

What is included:

- Display incl. vent adapter/ housing
- Connection cable with plugs or vehicle-specific connection kit
- Micro SD card (in display)
- Micro SD to SD adapter
- Optional anti-reflective film
- Micro USB to USB A cable

Installation instructions

You can find the vehicle-specific installation instructions on our homepage under "Help" or by scanning the QR code.

installation

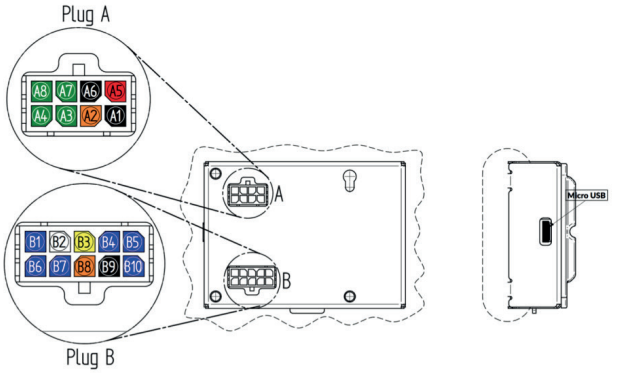
Connection

If you have the display with the vehicle-specific connection kit, please follow the installation instructions.

There are four connection variants:
Variant 1 is OBD and gets ignition plus via pin 1 of the port (BMW and VAG).
Variant 2 is OBD and can be recognised by the separate red wire.
This must be connected to 12v switched (terminal15) in the fuse box using the fuse adapter.
Variant 3 uses the vehicle-specific connection cable (e.g. BMW).
Variant 4 uses the accessory pack. Please follow the wiring diagram below.

Use a 2A fuse for the power supply (pin A5). The ground conects to A1. Connect Can High to pin B2 and Can Low to pin B3. To connect other accessories, see our manual.

manual



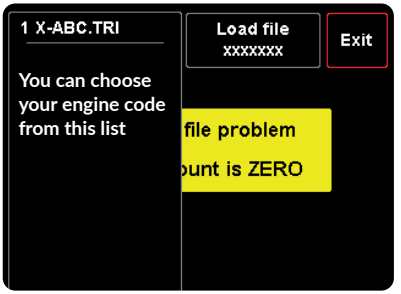
Plug A: Molex 43025-0800 **Plug B:** Molex 43025-1000 **Crimp:** 43030-0001

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

** future Application*

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

Initial setup of the display



Your display starts with the TRI/TRX selection. If this is not the case swipe your display downwards and go to "Setup", "Can Bus" and then "TRI/TRX File".

Select the TRI/TRX file that matches your motor/control unit and then press the "Load file" button.

The nomenclature of the TRI/TRX file is as follows: X-ABC. The X stands for the protocol (depending on the firmware) and ABC for the shortened engine code or -type.

TRI/TRX

Examples:

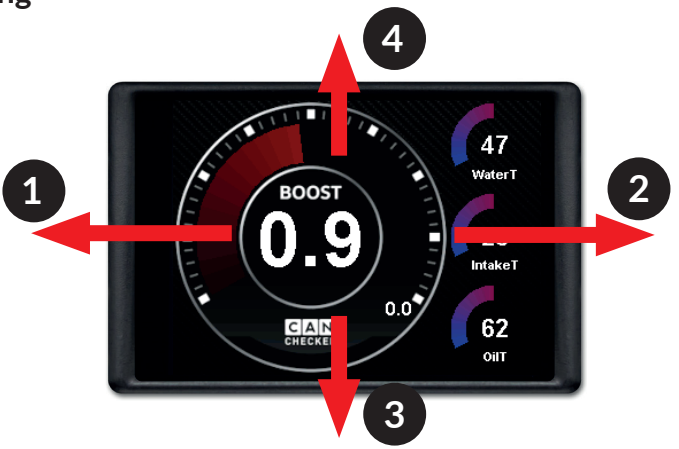
If your engine is a CDLA, select T-CDL.TRX. If you have a BMW S55, then select B-S55.TRX.

If your engine is not in the list, you can request TRI/TRX files via the form behind this QR Code. If available, you can attach pictures of the "scan motor" code and "support data" to speed up the process. Our team will generate the appropriate file within 1-3 working days.

After selecting "Setup" "Can Bus", check your connection. If your display is successfully connected to the bus, you will see "Can ok" in green at the top right. If the If the connection is faulty, you will see "no Can" in red.

For later setup, please connect the USB cable and lay it to an easily accessible place.

Handling



1) Swipe left to go to the next page.
2) Swipe right to go to the previous page.
3) Swipe down to access "Setup" and "DTC" (not on all protocols available).
4) Swipe up to access the log button, the brightness slider and the custom button.

The setup

Once you have swiped down from the top of your display and pressed "Setup", you will reach the sub-items described below. Depending on the active protocol some menu functions are locked (🔒).

Popup	Switching the pop-up window on and off when limit values are exceeded or undershot by means of a large, unmissable warning on the display. ATTENTION: Must be configured in advance in the Display-SetupSoftware (DSS) for each sensor. The duration can be configured by tapping on the time.
Can Bus	Tap this menu to select the TRX/TRI file or to make Can Bus settings. If you have purchased a vehicle-specific display, everything is already pre-configured.
Sensor Init	Important sensors for operating the display: RPM → RPM; Speed → Speed; Gear → Gear/GearCalc; Gear Mode → Gear Mode (automatic only) all others please set to N/A Changes get applied after a gauge restart.
License	Here you will find the serial number, the software version and the option of additional functions.
Gears	Configuration of gear calculation: Your display can calculate the current gear from rpm and speed. For each gear the ratio must be entered or determined and entered during driving operation. Please ensure that the "Sensor Init" is correct.
Splash Screen	Duration of the start screen. When completely deactivated, your display is ready for use in less than one second.
Start Page	The number indicates the page that is displayed first after start-up. Either 1-10 or "last used" - i.e. the page that was last used when the display was turned off.
Shift Light	Tap to change the colors or use the keypad to change the rev limit. If you use the external shift light, you can customize it here.
Dim Sensitivity	Only for UDS firmware and BMW firmware: the higher the number, the more the display is dimmed together with your speedometer. If you see the yellow triangle with exclamation mark here, this value is not supported by your speedometer. However, you can use the brightness slider (swipe the screen upwards during normal operation).
Pages	Here you will find the "Widget Packs" for the corresponding number of cylinders, you can hide unnecessary pages, switch the editing of pages on and off and change the orientation of the user interface of your display.
Custom Button	Here you can define the button in the lower menu (swipe screen upwards).

Demo Mode	Activates the Demo Mode. All values are moved between minimum and maximum. This option is inactive after restart.
Too Soon Junior	Are you living your life a quarter mile at a time? Activate this option, go off the menu and push the accelerator all the way to the floor for a little hidden fun. This only appears once and is then inactive again.
Night Mode	Welcome to the dark side.
Units	Here you can switch between metric and imperial units for the different sensor types.

Customization

Customizing your display is possible both on the display itself and via the DSS.

If you want to change the sensors on the display without using the computer, you need to unlock the corresponding page for editing. To do this, you must first go to "Setup" → "Pages" to unlock the page to be edited. You can then select the sensor assigned to the widget as well as the min- and max- values by clicking on it. Please note that often there are several widgets on top of each other. By clicking on them several times you can access the different levels and familiarize yourself with the layout of the page.

DSS

If you want to change the sensors and arrangements of your display on the computer, you need the DSS.

With the DSS you can also change the names of the sensors. You can download the DSS by following this QR-Code. The DSS is available for Mac and Windows.

manual

All information on customizing with and without DSS is summarized in our manual. To get to the manual you can follow the QR code.