



WEngineering

Datadisplay for BMW



Function overview

- Display of the maximum values
- Display environmental data for the individual maximum values
- Timekeeping (0-100, 100-200, 200-250)
- Display of many values as a time diagram
- Read fault memory (8 DTCs)
- Clear fault memory
- OEM or external exhaust flap control via MFL
- Correction of vehicle speed
- Activation of the fuel cut-off (sound tuning) via MFL only N55, S55 engine
- Display control by touch and by (MFL only F model)
- Start menu adjustable
- Correction of the displayed vehicle HP
- Shift light configurable for each gear
- Diagram recording function for 25 seconds
- Temperature monitoring with alarm function
- Values adjustable for minimum / maximum temperatures
- 2 color designs (white, orange original BMW)
- Automatic change to night design
- Automatic display dimming

Displayed signals

-  - Speed [Km/h][mph]
-  - Torque [Nm]
-  - Power [PS][HP]
-  - Boost pressure [Bar][PSI]
-  - rpm [U/Min]
-  - Engine oil temperature [°C][°F]
-  - Outside temperature [°C][°F]
-  - Acceleration in the direction of travel [m/s²]

Displayed signals



- Accelerator position [%]



- Exhaust gas temperature [°C][°F]



- Exhaust gas temperature [°C][°F]



- Water temperature [°C][°F]



- Air mass [g/s]



- Charge air temperature [°C] [°F]



-Staudruck vor DPF (Nur Diesel)



- Gearbox temperature [°C] [°F] (Automatic or DKG gearbox)

Displayed signals

-  - Ignition angle [$^{\circ}$]
-  - Lambda
-  - Rail pressure / gas pressure [Bar]
-  - Back pressure before DPF (only diesel)
-  - DPF differential pressure (only diesel)

Main menu

Day Design

 Dash	 Performance
 Measure	 Graph
 Maximum	 Functions

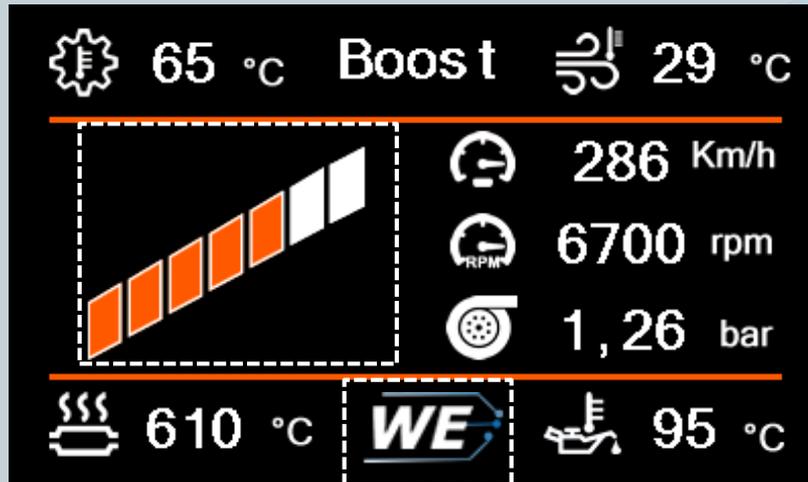
Night Design

 Dash	 Performance
 Measure	 Graph
 Maximum	 Functions

Display operating concept

1. Screen Dash -> Boost

2. Quick button and display the boost pressure. The Maximalausschlag learning automatically while driving



1. Logo

By pressing on determined symbols leads in intended screens or triggers a function.

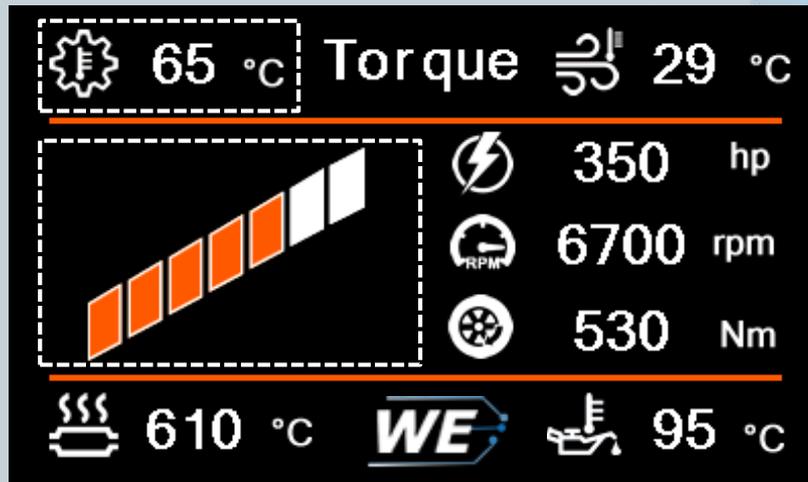
1. Next screen
2. Quick button for controlling of the OEM installed exhaust flap

Display operating concept

1. ScreenDash -> Torque

For vehicles with no gearbox temperature sensor in this area, the cooling water temperature is displayed

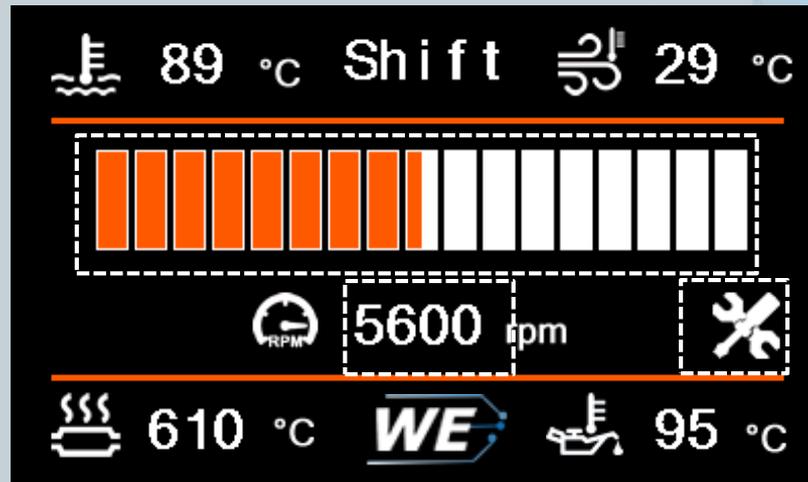
Torque gauge. Of the deflection learning automatically while driving



Display operating concept

1. Shift light

This area flashes as soon as the maximum set speed is exceeded



Setup

Trigger RPM for shift light

Operating concept Display

1. Screen Functions -> Engine Check

Number of errors in engine control unit

Error Code



The screenshot shows a black background with white text. At the top, it says "Engine: 3 error" with the number "3" enclosed in a dashed white box. Below this, there is a list of error codes and their status icons:

Error Code	Status Icon
1. 2cbe00	Information (i)
2. 2dce00	Information (i)
3. 3fab00	Warning (triangle with exclamation mark)
4. ---	---
5. ---	---
6. ---	---
7. ---	---
8. ---	---

At the bottom of the screen, there are three buttons: "Read" (enclosed in a dashed white box), the "WE" logo, and "Delete" (enclosed in a dashed white box).

Read fault memory

Clear fault memory

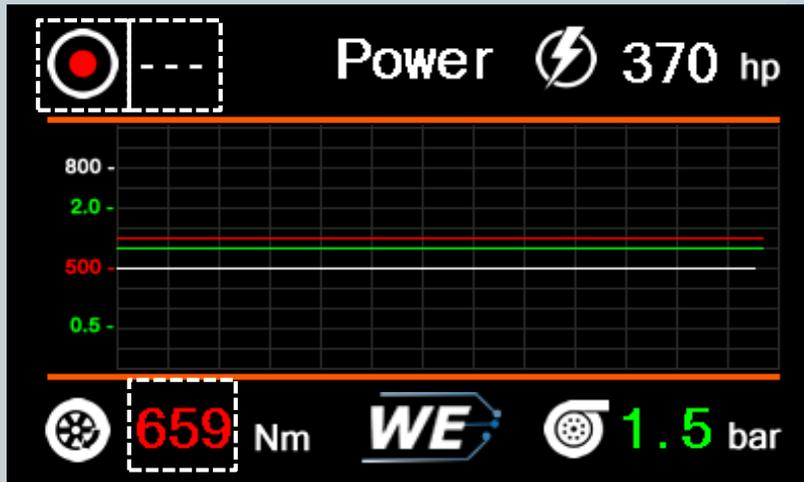
Fehlerstatus

1.  1. Fault currently not present, but was saved
2.  2. Error was registered in this driving cycle and is present.

Operating concept Display

1. Screen Graph 2. Status

1. Record



3. Digital

The colors of the lines on the graph are assigned according to the numbers. Thus it is seen as the assignment of the signals. In normal operation, the actual values are displayed continuously. To trigger recording function, must be pressed on the "Record" icon.

The values are updated freezes and the status "Wait" is displayed. In order to wait for a gas pedal position of at least 90%. Once this condition is met, the status of "Wait" will change to "Rec" and start recording. This stops automatically after 25 seconds. After that, the recording can be viewed in peace. The digital values of the maximum achieved value is displayed. The recording can be stopped at any time by pressing the icon.

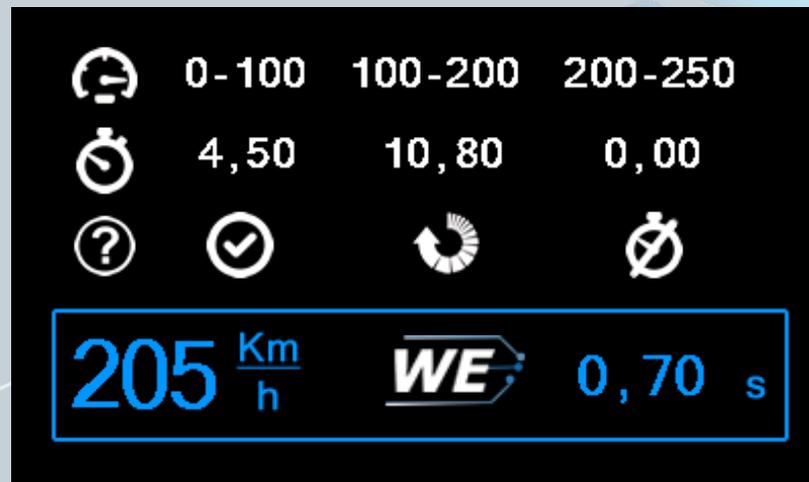
Operating concept Display

1. Screen Measure

1. Speed

2. Time

3. Status



- Timeout



-Current measurement

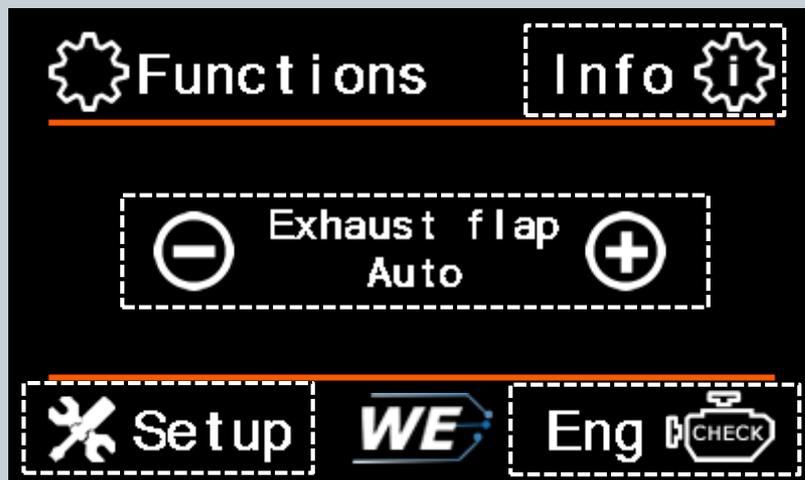


-Successful measurement

In the menu Functions -> Setup -> Adjust the speed can be corrected logo

Operating concept Display

1. Screen Functions



Info: Click here for ScreenInfo. In this area all version information may be like the serial number read off

Control de exhaust flap with "+" or "-". If the status is "car" takes over the engine control unit controlling

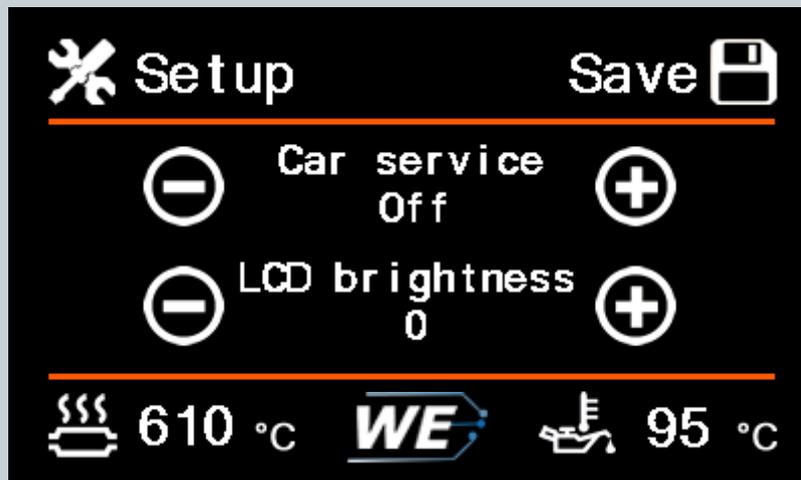
Closely check: Reading and deleting fault memorylogo

Setup: Access the settings menu which is described on the next page.

With a press of the logo system leads to the setting of the water injection WIC

Operating concept Display

1. Screen Functions -> Setup

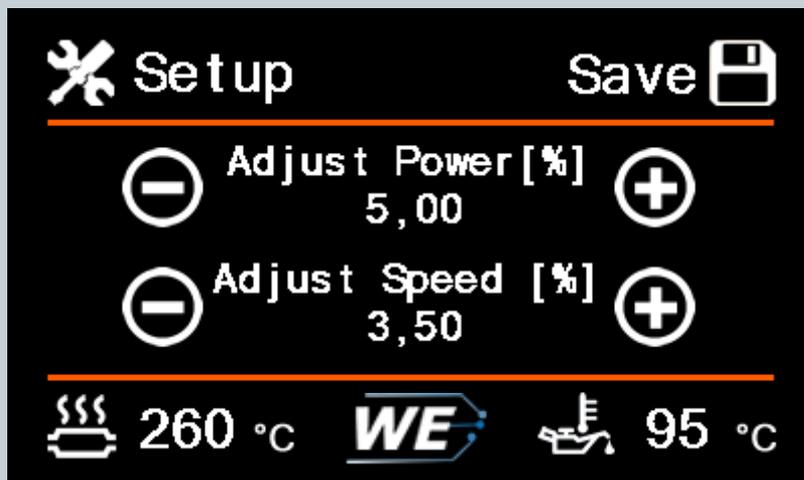


The Save button settings display offset and Car Service are stored. If the car service to "On" as the interface for the workshop is released. **Otherwise, no communication with the vehicle is possible via an external diagnostic tester!** done with Car Service "Off" the normal display mode.

Accept night design or not.

Operating concept Display

1. Screen Setup -> Adjust



In this setup menu it is possible to correct the displayed power and speed.

Adjust the displayed performance is usually necessary for a map optimization. the power correction on the display can be set only for the injection profile "OFF". For further injection profile is the WIC configuration software.

Furthermore, the vehicle speed can be adjusted to the GPS speed. A correction is made in percentage terms and in 0.5% increments. A change is effective immediately for this driving cycle.

Example: Displayed speed = 100km / h, V GPS = 102km / h. Thus, a correction of 2% is necessary.

Operating concept Display

1. Operation of the display via the multifunction steering wheel buttons (Only F models)



1. Use the paddles on the MFL can switch quickly between the individual screens. For this purpose, press the rocker slightly up or down.

Up = front, down = back

2. To speed can reach a desired menu, rocker operated all the way up or down. Here, the main menu pops up. Repeat this operation until the selection is at the desired position. In the sub-menu is accessed by an easy operation of the rocker or wait 5 seconds.



Operating concept Display

2. Operation of the display via the multifunction steering wheel buttons (Only F models)



If an exhaust valve was installed at the factory, this can be controlled by "Res" button

By a long press of 2 seconds of the paddles in the corresponding menu function can be triggered.

2 sec up = read error memory

2 sec up = reset maximum values

2 sec up = In the graph, a recording trigger

2 sec down = delete fault memory

