

Technical training.
Product information.

F01/F02 LCI Displays and Controls



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General information

Symbols used

The following symbol/schematic diagram is used in this document to facilitate better comprehension or to draw attention to very important information:



Contains important safety information and information that needs to be observed strictly in order to guarantee the smooth operation of the system.

Information status and national-market versions

BMW Group vehicles meet the requirements of the highest safety and quality standards. Changes in requirements for environmental protection, customer benefits and design render necessary continuous development of systems and components. Consequently, there may be discrepancies between the contents of this document and the vehicles available in the training course.

This document basically relates to the European version of left hand drive vehicles. Some operating elements or components are arranged differently in right-hand drive vehicles than shown in the graphics in this document. Further deviations may arise as a result of the equipment specification in specific markets or countries.

Additional sources of information

Further information on the individual topics can be found in the following:

- Owner's Handbook
- Integrated Service Technical Application.

Contact: conceptinfo@bmw.de

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The information contained in this document forms an integral element of the technical training of the BMW Group and is intended for the trainer and participants in the seminar. Refer to the current respective information systems of the BMW Group for any changes/additions to the technical data.

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F01/F02 LCI Displays and Controls

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F01/F02 LCI Displays and Controls

1. System Overview

1.1. Introduction

As with all other BMW models, the operating concept of the BMW 7-Series F01/F02 is based on a clear and optimized layout of the controls and indicators. The display and operating elements are organized in a hierarchical arrangement corresponding to their function. Adaptations have also been made to the operating facility of driver assist systems as part of the LCI model revision.



F01/F02 LCI overview of displays, indicators and controls

Index	Explanation
1	Head-Up Display (HUD)
2	Central information display (CID)
3	Favorite buttons for individual assignment and operation of automatic air conditioning system
4	Gear selector switch (GWS)
5	Controller (CON)
6	Control buttons, steering wheel
7	Driver assistance system operating center
8	Instrument panel/Multifunctional instrument display (KOMBI)

F01/F02 LCI Displays and Controls

2. System Components

2.1. Instrument panel

In the F01/F02 LCI the familiar instrument panel with 4 analogue round instruments and a 9.2" TFT display are used as standard equipment. The display has a resolution of 960x160 pixels and is integrated in the bottom area in the round instruments.



Instrument panel F01/F02 LCI

2.2. Central information display



F01/F02 LCI CID

The CID in the F01/F02 LCI has been revised technically and visibly for the F01/F02 LCI model. The CID is now connected to the headunit via an APIX interface similar to other current BMW models. The design of the cockpit has been enhanced with chrome accents adding to the already sophisticated look.

A 10.25" (diagonal) CID is installed in connection with the standard equipment Navigation system.

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2. System Components

The Central Information Display is an integrated display and user interface for the following functions:

- Audio functions such as radio, CD, MP3
- Telephone and data services
- On-board computer, journey computer
- Vehicle information, Interactive Owner's Manual (IBA)
- Heating and air conditioning system
- Personalized features such as station choice
- Vehicle functions such as PDC and EDC
- BMW Services.

As with all new BMW models, the system is operated by means of the central operating controller.

2.3. Head-Up Display

The Head-Up Display (HUD) projects a virtual image into the driver's field of view. Important information, e.g. from the cruise control or navigation system with arrow display, is reflected on the windshield and is therefore permanently available in the driver's field of view.

The (optional equipment SA610) Head-Up Display in the F01/F02 LCI contains various functions aimed at enhancing road safety and ride comfort.

This includes display of the following:

- Cruise control with braking function (Dynamic Cruise Control)
- Active cruise control with Stop&Go function
- Collision warning with braking function
- Navigation system
- Check Control messages
- Vehicle Speed
- Speed Limit Information
- Distance information

Having the displays in the driver's direct field of view increases safety, as this allows the driver to keep his eyes on the road at all times.

2.4. Operating controls on the steering wheel

A switch block is integrated into the steering wheel on the left- and right side respectively.

The operating controls for the cruise control with braking function (Dynamic Cruise Control) and the active cruise control (ACC) are on the left-hand side of the steering wheel.

The operating controls for operation of the radio and telephone functions are on the right.

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2. System Components



F01/F02 LCI operating controls on the steering wheel

Index	Explanation
1	Reduce distance button (only with optional equipment 5DF)
2	Rocker switch $\pm$, change speed, set speed
3	Knurled wheel, select/set radio station or CD track
4	MODE button, change between audio sources
5	Shift paddle for upshifting (only with optional equipment 2TB)
6	Rocker switch +, increase volume
7	Rocker switch -, lower volume
8	Voice recognition system button
9	Telephone button
10	Increase distance button (only with optional equipment 5DF)
11	Switch ACC/DCC on/off, interrupt
12	Resume button, call-up stored speed
13	Speed SET button
14	Shift paddle for downshifting (only with option 2TB)

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2. System Components

2.5. Operating controls in the center console



F01/F02 LCI operating controls in the center console

Index	Explanation
1	Gear Selector Switch
2	Controller
3	Electronic Parking Brake
4	Automatic Hold
5	Park Distance Control (PDC) or Parking Assistant
6	Side View
7	Hill Descent Control (HDC)
8	Driving Experience Switch
9	Dynamic Stability Control (DSC)

The labelling of the button "CD" has been changed to "MEDIA" similar to other current BMW models. For the heating and air conditioning system the labelling of the button has been changed to "A/C".

2.5.1. Driving experience switch

The driver can use the driving experience switch to select different programs which alter various properties of the vehicle depending on the vehicle's equipment specification.

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2. System Components

The following programs are available:

- SPORT
- SPORT+
- COMFORT
- COMFORT+
- ECO PRO

When the driver switches to a different program, the selected program is displayed in the instrument panel. In addition, a pop-up for the selected program appears in the CID and for vehicles with a multi-functional instrument display the design and display concept are adapted to the driving mode.

ECO PRO mode



The ECO PRO mode supports the driver in adopting a consumption-optimized driving style and reduces fuel consumption through intelligent control of energy and A/C management.

The following measures help to reduce fuel consumption:

- A modified accelerator pedal characteristic curve and shift program with automatic transmission helps the driver adopt a driving style that optimizes fuel consumption.
- The A/C system is placed in the ECO PRO operating condition. Here the A/C system operates at reduced air drying and cooling. If the required temperature can be achieved without cold production, the A/C compressor is switched off. During heating mode the engine operating mode with increased heat dissipation is to the greatest possible extent dispensed with and the electric auxiliary heater is operated at low power. The ECO PRO operating state of the heating/air-conditioning unit can be reset by the driver in the COMFORT operating condition. The setting of the operating condition of the heating and A/C system is stored and reestablished when the ECO PRO mode is called up again.
- The exterior mirror heating is switched off and the seat heating temperature is limited to 37.5 °C (99.5 °F) instead of 42 °C (107.6 °F). These measures are allied to the ECO PRO operating condition of the heating and A/C program.
- The driver is prompted by various displays to adopt a driving style that optimizes consumption and is supported in optimizing their driving style.

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2. System Components

These measures are supplemented with the following additional measures in the F01/F02 LCI with the model revision:

- **Coasting:** Under certain prerequisites the engine is automatically disconnected from the transmission in gear selector switch position “D”. The vehicle continues to roll in idle state at reduced consumption. As soon as the brake or accelerator pedal is pressed, the engine is automatically reconnected.

The coasting mode is shown in the EfficientDynamics display by the blue bar in the zero display. The coasting function can be manually switched on and off in the configuration menu of the **ECO PRO mode**. The setting is saved for the profile currently used.

The following prerequisites must be satisfied for the coasting function:

- Speed between 50 and 160 km/h (30 and 100 mph)
- Accelerator and brake pedal are not pressed
- Gear selector switch in position D
- Engine and transmission are at operating temperature
- DSC OFF or TRACTION are not activated
- Cruise control is not activated
- No trailer towing.

The coasting function is also not available if the state of charge is temporarily too low, if there is an excessive current requirement in the vehicle electrical system or when driving on sharp inclines or downhill gradients.



ECO PRO mode is available on all F01/F01 LCI models except the 760Li .

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2. System Components

2.6. Driver assistance system operating facility

The individual driver assistance systems can be activated or deactivated via driver assistance systems operating facility, which is located next to the steering wheel in the dashboard.



F01/F02 LCI driver assistance system operating facility

Index	Explanation
1	Blind Spot Detection (Lane change warning)
2	Intelligent Safety (collision warning with braking function)
3	Lane departure warning
4	Night Vision with pedestrian detection
5	Head-Up Display

The new “Intelligent Safety” button replaces the previous button for the collision warning with braking function. Via the Intelligent Safety button the collision warning with braking function is switched on and off. This function is switched on or off each time the button is pressed and the LED above the button is turned on or off respectively. The LED above the button illuminates as soon as at least one of the functions is switched on. This front protection function is automatically switched on each time the engine is started via the START-STOP button. In the case of the blind spot detection and the lane departure warning as before the last setting is always retained even after an engine start.

In addition, information screens on the respective driving systems are shown in the CID when the system is switched on.

The settings for the warning time of the collision warning with braking function can be accessed and preset via the information screens of Intelligent Safety menu.

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2. System Components



F01/F02 LCI Intelligent Safety menu displays in the CID

Note: Further information on the driver assistance systems can be found in the "F01/F02 LCI Driver Assistance Systems" section of this training material.



Bayerische Motorenwerke Aktiengesellschaft
Händlerqualifizierung und Training
Röntgenstraße 7
85716 Unterschleißheim, Germany