BMW Performance steering wheel
Operating instructions

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General instructions

BMW recommends to use only parts and accessories that have been tested and approved by BMW in terms of their safety, function and suitability.

Should you have any questions during installation or operation, please call the BMW Center from whom you purchased this product.

These instructions are intended as a supplement to the car's operating instructions and tell you how to operate your BMW Performance steering wheel. Please keep these instructions safe with your vehicle documentation.

Read this owner's manual carefully before you use the BMW Performance steering wheel.

The reader's attention is drawn to the terms and conditions of sale for new vehicles. In particular, claims against defects will accordingly not be entertained if the defect or damage has been caused by the purchased object being used incorrectly or overloaded, for example at motor sports events.

Symbols used

Denotes instructions or warnings that you must observe.

Denotes instructions that draw your attention to special features.

◄ Denotes the end of the instruction.

Safety instructions

Obey all speed and traffic laws when driving vehicles equipped with BMW Performance Parts.

It is always the driver's responsibility to drive in a manner appropriate to the setting. Do not be tempted to take risks when driving. You could cause an accident.

Vehicle performance claims varies based upon vehicle, driver and environmental conditions.
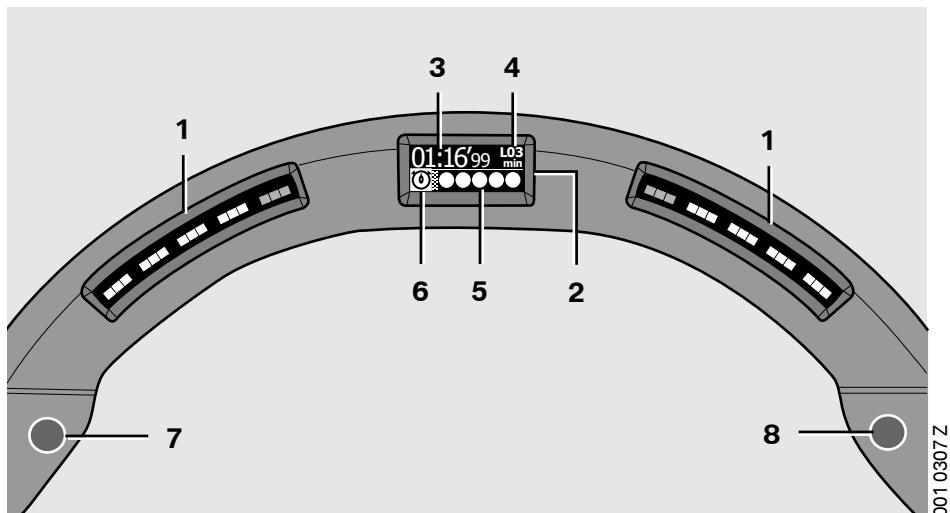
The race watch features of the Performance Steering Wheel should only be used on a race course or closed street. ◄

Instructions for use

In order to safeguard a long service life for the electronic components, the BMW Performance steering wheel can only be operated in a temperature range between -10 °C and +60 °C (+14 °F and +140 °F).
Outside this temperature range, all the functions and displays of the BMW Performance steering wheel are disabled.

Displays and operation

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1   Gear shift indicator
2   Display
3   Function display **1**
4   Function display **2**
5   Function display **3**
6   Display mode
7   Control button left (**L**)
8   Control button right (**R**)

Functions

The BMW Performance steering wheel offers the following functions:

- Stopwatch
- Race computer with lap times, section times and 400 m / ¼ M race functions
- Display of lateral and longitudinal acceleration
- Temperature display
  Diesel engine: water temperature
  Petrol engine: Oil and water temperature
- Gear shift indicator

There is a short and long button press. A long button press is carried out when the button is held down for more than 2 seconds. ◂

Switching on the BMW Performance steering wheel

After switching on the ignition, the "BMW Performance" welcome message appears on the display and the gear shift indicator's LED's light up briefly. The displays then darken again.

In order to switch on the display and gear shift indicator, press and hold the **L** and **R** buttons simultaneously.
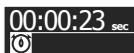
The displays can then be switched off again whenever you wish (apart from when you are in the "Settings" menu) by pressing and holding the **L** and **R** buttons.

If you switch off the displays while a time display is in progress, the clock will continue to run in the background and the button functions (apart from the on/off function) will be disabled. ◂

Overview of functions

The BMW Performance steering wheel offers seven functions that can be selected in sequence using the **L** button.

Stopwatch

The display shows the time in hours, minutes and seconds as well as the stopwatch symbol. The maximum time display is 23:59:59 h.

LAP race timer

The display shows the time in minutes, seconds and 100ths of a second as well as the stopwatch symbol with the chequered flag and LAP.
The maximum time display is 59:59'99 min.

SECTION race timer

The display shows the time in minutes, seconds and 100ths of a second as well as the stopwatch symbol with the chequered flag and SEC.
The maximum time display is 59:59'99 min.

400 Meter Race / ¼ Mile Race

Depending on which setting has been selected (km/h or mph), either ¼ M or 400 m Race is displayed. ◄

The display shows the time in seconds and 100ths of a second as well as the racecar symbol with the chequered flag.

The maximum time display is 59'99 sec.

G-meter

The display shows the lateral and longitudinal acceleration and the G symbol.

The display always shows the maximum values of a cornering move or acceleration / braking operation. These values are displayed for 2 seconds after cessation of the G forces.

Temperature

The display shows the current oil and water temperature and the thermometer symbol.

Depending on the setting selected, the temperature is displayed in °C or °F. In diesel vehicles, only the water temperature is displayed.

The temperature sensor has a warning function (petrol vehicles only). If the oil temperature is too high, the function display flashes. ◄
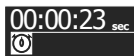
Settings
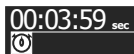

In this menu you can make the following settings:

- Display and LED brightness
- Units of length and temperature settings
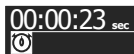- Speed threshold for the gear shift indicator
- Reset function

Stopwatch

Press the **L** button briefly several times as required until the stopwatch is displayed.

00:00:23 sec

Press the **R** button briefly to start the stopwatch.

00:03:59 sec

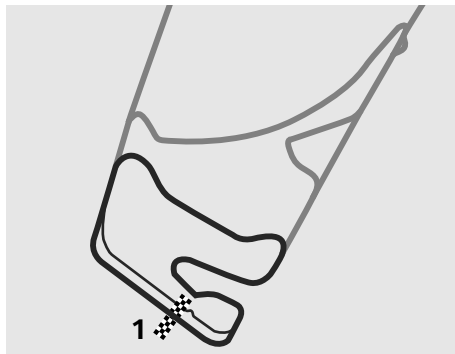Press the **R** button briefly to stop the stopwatch.

00:00:23 sec

Press and hold the **L** and **R** buttons simultaneously to reset the stopwatch.

While the stopwatch is running, pressing the **L** button briefly several times allows you to switch to "G-meter", "Temperature" or "Settings" mode.
The stopwatch will continue to run in the background. Time measurements can only be made when the stopwatch function is displayed.

LAP race timer (lap times)

The LAP race timer allows you to measure times for individual laps (max. 30 laps). The values travelled (times, speeds, acceleration forces) are stored for each lap (LAP) and can be displayed later.
The example shows a time measurement on the Hockenheimring (small course, see figure).

During a race, you can switch to "G-meter" mode at any time by briefly pressing the **L** button (endless loop). Other functions are not available.
The stopwatch will continue to run in the background. Time measurements can only be made when the LAP race timer function is displayed.

Example:
Press the **L** button briefly several times as required until the LAP race timer is displayed.
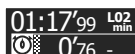
00:00'00 LAP sec

Briefly press the **R** button to start the race (e.g. flying start when the start / finish line is crossed).
As soon as the race is started, "L01" appears for the first lap in the display.

01:18'75 L01 min

Briefly press the **R** button to stop the first lap time when the start / finish line is crossed.

The lap time for the first lap is displayed for 3 seconds. During this display, the clock continues to run in the background. After 3 seconds, the time for the second lap is displayed, which again started at zero.

01:17'99 **L02** **min**
⧗ 0'76 -

Briefly press the **R** button to stop the second lap time when the start / finish line is crossed. The lap time for the second lap, plus the time difference from the fastest lap so far, are displayed for 3 seconds. During this display, the clock continues to run in the background. After 3 seconds, the time for the third lap is displayed, which again started at zero.

Repeat this process for each further lap.

01:18'02 **L03** **min**
⧗ ●●●●●

To end the race, briefly press the **R** button a second time immediately after you have ended a lap (double-click). The time for the last lap is stored with the first press of the button. The last lap time is displayed and the lights flash for 3 seconds.
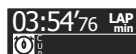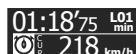
Display of "CUR" values

▷ If no lap times have been stored, all the values are displayed as zero. ◂

In "CUR" mode, you can display the current values (times, speeds, acceleration forces) for the last race. The values remain in the memory until a new race is started in "LAP" mode and the old values are overwritten.

Once the race finishes, the display automatically switches to "CUR" mode after 3 seconds. You can also call up the "CUR" values at any time from the main menu. To do this, while the LAP race timer is being displayed, press and hold the **R** button.

03:54'76 **LAP** **min**
⧗

The "CUR" symbol and the added total time of all laps appear in the display.

01:18'75 **L01** **min**
⧗ 218 **km/h**

Briefly press the **R** button to display the lap time and the maximum speed of the first lap.

← 0.89 **L01**
⧗ 1.27 ↑

Briefly press the **R** button to display the maximum latitudinal and longitudinal acceleration of the first lap.
The arrows indicate the direction of acceleration (e.g. right arrow = left-hand bend).

Briefly pressing the **R** button again enables you to cycle through the values for all stored laps (endless loop).

To exit "CUR" mode, briefly press the **L** button. This takes you to the main menu ("LAP" mode), where you can start a new race or scroll to the next main menu item.

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Display of "TOP" values

▷ "TOP" values can only be displayed if corresponding values have been stored (i.e. a race has been held). ◄

In "TOP" mode, you can display the values (times, speeds, acceleration forces) for the fastest lap.

```
01:18'75  L01
⊙ᶜᵁᴿ 218  min
          km/h
```

In "CUR" mode, briefly press the **R** button until the lap time and maximum speed of the lap you are interested in are displayed.

```
01:17'99  L02
⊙ᵀᴼᴾ 220  min
          km/h
```

While these values are being displayed, press and hold the **R** button to display the time and maximum speed of the fastest lap ("TOP" value).
Press the **R** button briefly to return to "CUR" mode.

```
← 0.89  L01
⊙ᶜᵁᴿ 1.27 ↑
```

In "CUR" mode, briefly press the **R** button until the latitudinal and longitudinal acceleration of the lap you are interested in are displayed.

```
← 1.00  L02
⊙ᵀᴼᴾ 1.32 ↑
```

While these values are being displayed, press and hold the **R** button to display the latitudinal and longitudinal acceleration of the fastest lap ("TOP" value).
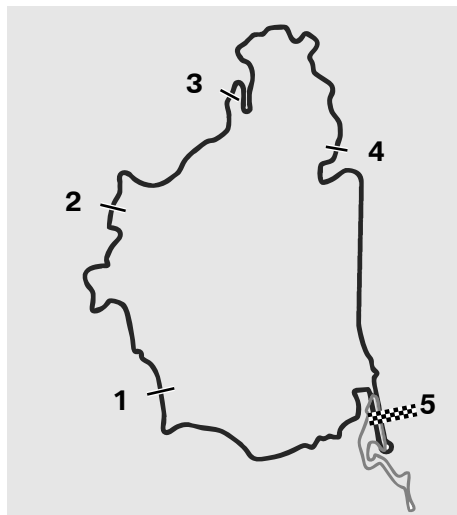Press the **R** button briefly to return to "CUR" mode.

To delete the "TOP" values, press and hold the **L** and **R** buttons simultaneously.

```
00:00'00  min
⊙ᵀᴼᴾ 0  km/h
```

All of the "TOP" values stored in "LAP" mode will be deleted. The "CUR" values remain stored in the memory.

After 3 seconds, the display will automatically return to "CUR" mode.

SECTION race timer (section times)

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The SECTION race timer enables individual laps to be divided up into sections (max. 9 sections). The values travelled (times, speeds, acceleration forces) are stored and can be displayed later.
The example shows a measurement on the Nürburgring (north loop) with 5 sections (see figure).

During a race, you can switch to "G-meter" mode at any time by briefly pressing the **L** button (endless loop). Other functions are not available.
The stopwatch will continue to run in the background. Time measurements can only be made when the SECTION race timer function is displayed.

Example:
Press the **L** button briefly several times as required until the SECTION race timer is displayed.

Briefly press the **R** button to start the race (e.g. flying start when the start / finish line is crossed).

As soon as the race is started, "S01" appears for the first section in the display.

Press the **R** button briefly to stop the first interval.
The interval for the first section, plus the time difference from the fastest interval for "S01" (if available in the "TOP" memory), are displayed for 3 seconds.

The clock continues to run in the background and shows the current total time after switching back.

Press the **R** button briefly to stop the second interval.
The time to the end of the second section, plus the time difference from the fastest interval for "S01+S02" (if available in the "TOP" memory), are displayed for 3 seconds.
The clock continues to run in the background and shows the current total lap time after switching back.

Repeat this process for each further section.

To end the race, briefly press the **R** button a second time immediately after you have ended a section (double-click). The time of the last section (in the example here, S05) is stored with the first press of the button.
The race is ended, the total time displayed and the lights flash for 3 seconds.

Display of "CUR" values

In "CUR" mode, you can display the current values (times, speeds, acceleration forces) for the last race. The values remain in the memory until a new race is started in "Section" mode and the old values are overwritten.

Once the race finishes, the display automatically switches to "CUR" mode after 3 seconds (display of stored values).
You can also call up the "CUR" values at any time from the main menu. To do this, while the SECTION race timer is being displayed, press and hold the **R** button.

The "CUR" symbol and the added total time of all sections appear in the display.

Briefly press the **R** button to display the interval and the length of the first section.

Briefly press the **R** button to display the time and the maximum speed for the first section.

Briefly press the **R** button to display the maximum latitudinal and longitudinal acceleration of the first section.
The arrows indicate the direction of acceleration (e.g. forward arrow = deceleration).

Briefly press the **R** button to display the total time (S01 + S02) and the total distance (S01 + S02).

Briefly press the **R** button to display the time and the maximum speed for the second section.

Briefly pressing the **R** button again enables you to cycle through the values for all stored sections (endless loop).

To exit "CUR" mode, briefly press the **L** button.

Display of "TOP" values

In "TOP" mode, you can display the best section values (times, speeds, acceleration forces) for the fastest lap. The "TOP" values belonging to the values displayed in "CUR" mode are always displayed.

In "CUR" mode (any display), press and hold the **R** button.

The associated "TOP" values for this section are displayed.
Press the **R** button briefly to return to "CUR" mode.

In "CUR" mode, briefly press the **R** button until the required values of the section you are interested in are displayed.

While these values are being displayed, press and hold the **R** button in order to display the associated "TOP" values for this section.

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Press the **R** button briefly to return to "CUR" mode.

To delete the "TOP" values, press and hold the **L** and **R** buttons simultaneously.

All of the "TOP" values stored in "Section" mode will be deleted. The "CUR" values remain stored in the memory.

After 3 seconds, the display will automatically return to "CUR" mode.

400 m Race / ¼ M Race

This function must not be used on public roads or in traffic. ◄

In "400 m Race / ¼ M Race" mode, you can record the times, speeds and acceleration forces from a standing start and maximum acceleration until 400 metres or ¼ of a mile are reached. The values travelled are stored and can be displayed later.
In "400 m Race" mode, times until certain speeds are reached are recorded.
In "¼ M Race" mode, (US-specific) times until certain distances are reached are recorded.

Depending on which setting has been selected (km/h or mph), either 400 m Race or ¼ M Race is displayed. ◄

Example:
Press the **L** button briefly several times as required until the 400 m Race / ¼ M Race is displayed.

This function can only be activated with the vehicle stationary. ◄

Press the **R** button briefly to start the traffic light countdown. The lights start to illuminate at intervals of 2 seconds. Once all 5 lights are illuminated, a random generator begins. This switches the lights off after 2 to 4 seconds. Start the race immediately once all 5 lights have gone out and accelerate continuously until the clock stops.

The clock stops automatically at a distance of 400 m or ¼ M.
The race is ended, the time displayed and the lights flash for 3 seconds.

The race can be interrupted at any time by pressing and holding the **R** button. ◄

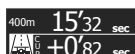## Display of "CUR" values (400 m Race)

 If no "400 m" times have been stored, all the values are displayed as zero. ◄

In "CUR" mode, you can display the current values (times, speeds) for the last race. The values remain in the memory until a new race is started in "400 m Race" mode and the old values are overwritten.

Once the race finishes, the display automatically switches to "CUR" mode after 3 seconds (display of stored values).
You can also call up the "CUR" values at any time from the main menu. To do this, while the 400 m Race is being displayed, press and hold the **R** button.
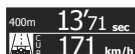

The total time and start response time are displayed.

Briefly press the **R** button to display the time required and distance travelled from 0 to 40 km/h.

Briefly press the **R** button to display the time required and distance travelled from 0 to 60 km/h.

Briefly press the **R** button as required to display further values in 20 km/h sections until 400 m are reached (endless loop).

To exit "CUR" mode, briefly press the **L** button.

Display of "TOP" values (400 m Race)

 "TOP" values can only be displayed if corresponding values have been stored (i.e. a race has been held). ◄

In "TOP" mode, you can display the values (times, speeds) for the best race.

In "CUR" mode (any display of time and distance), press and hold the **R** button.

The associated "TOP" values for this section are displayed.
Press the **R** button briefly to return to "CUR" mode.

The "TOP" values for other sections are displayed in the same way.

To delete the "TOP" values, press and hold the **L** and **R** buttons simultaneously. All "TOP" values are displayed in "400 m" mode.
After 3 seconds, the display will automatically return to "CUR" mode.

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Display of "CUR" values (¼ M Race)

 If no "¼ M" times have been stored, all the values are displayed as zero. ◂

In "CUR" mode, you can display the current values (times, speeds) for the stored race. The values remain in the memory until a new race is started in "¼ M Race" mode and the old values are overwritten.

Once the race finishes, the display automatically switches to "CUR" mode after 3 seconds (display of stored values).
You can also call up the "CUR" values at any time from the main menu. To do this, while the ¼ M Race is being displayed, press and hold the **R** button.

The total time and start response time are displayed.

Briefly press the **R** button to display the time required for 60 ft and the speed achieved.

Briefly press the **R** button to display the time required for 330 ft and the speed achieved.

Briefly press the **R** button as required to display the values for the remaining sections (⅛ M, 1000 ft and ¼ M) (endless loop).

To exit "CUR" mode, briefly press the **L** button.

Display of "TOP" values (¼ M Race)

 "TOP" values can only be displayed if corresponding values have been stored (i.e. a race has been held). ◂

In "TOP" mode, you can display the values (times, speeds) for the best race.

In "CUR" mode (any display of time and speed), press and hold the **R** button.

The associated "TOP" values for this section are displayed.
Press the **R** button briefly to return to "CUR" mode.

The "TOP" values for other sections are displayed in the same way.

To delete the "TOP" values, press and hold the **L** and **R** buttons simultaneously. All "TOP" values are displayed in "¼ M" mode.
After 3 seconds, the display will automatically return to "CUR" mode.

Settings

This menu allows general and personal settings to be made to the display and gear shift indicator.

Press the **L** button until the Settings menu appears in the display.

Briefly press the **R** button to select a function. The box around the setting symbol highlights the function selected.

Brightness

Select the brightness symbol and press and hold the **R** button.

Briefly press the **R** button to select the setting for the display or gear shift indicator. Confirm your selection by pressing and holding the **R** button.

To reduce the brightness of the display / gear shift indicator, briefly press the **R** button several times.
To increase the brightness of the display / gear shift indicator, press and hold the **R** button.

To save the settings and return to the Settings menu, briefly press the **L** button.

If the brightness of the gear shift indicator is set to its minimum setting, it will no longer light up. The display cannot be switched off by reducing the brightness. ◄

Speed

Select the speed symbol and press and hold the **R** button.

Briefly press the **R** button to toggle the display between km/h and mph.

To save the settings, briefly press the **L** button.

If you have selected km/h, "400 m" mode is active. If mph is selected, "¼ M" mode is enabled. ◄

Temperature

Select the temperature symbol and press and hold the **R** button.

Briefly press the **R** button to toggle the display between °C and °F.

Now press and hold the **R** button to call up the value for the oil temperature warning (petrol vehicles only).
Once this value is exceeded, functional display 3 (see the section on Indicators and Operation) flashes regardless of which display you are currently in to warn you of a possible overheating of the engine.

This value can be displayed in °C or °F, depending on your preference. ◄

To reduce the temperature value, briefly press the **R** button several times.
To increase the temperature value, press and hold the **R** button.

To save the temperature settings, briefly press the **L** button until you return to the Settings menu.

Speed threshold

This setting allows you to adapt the gear shift indicator to your car and / or driving style.
The speed threshold is the value at which the LED's on the gear shift indicator start to flash and a gear shift operation must be carried out. This value can be adjusted to the rpm value for the best torque or best engine performance.

Select the speed threshold menu and press and hold the **R** button.

Press the **R** button briefly several times to reduce the speed threshold.

Press and hold the **R** button to increase the speed threshold.

To save the settings, briefly press the **L** button.

The switching processes for the LED's on the gear shift indicator are grouped as follows:

- 1st LED at 80 % – 85 %

- 2nd LED at 85 % – 90 %

- 3rd LED at 90 % – 94 %

- 4th LED at 94 % – 97 %

- 5th LED at 97 % – 100 %

of the set speed threshold value.

Once 100% of the speed threshold value is reached, all the LED's flash.
The gear shift should now be performed.

Reset

By activating the reset function, the stored values of all functions and menus are deleted and the BMW Performance steering wheel is restored to its factory settings. ◂

Select "R" for the Reset menu and press and hold the **R** button.

Press and hold the **L** and **R** buttons simultaneously to delete all stored values.

Volant Performance BMW
Mode d'emploi

Sommaire

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