

Contents A - Z

Supplementary
Owner's Manual



The Ultimate
Driving Machine



THE BMW X5 M AND THE BMW X6 M. SUPPLEMENTARY OWNER'S MANUAL.

BMW M. 

X5 M
X6 M

Supplementary Owner's Manual of the vehicle

We are happy that you have decided on a BMW X5 M /
BMW X6 M.

The more familiar you are with your BMW, the greater command
you will have of it in traffic.

We therefore ask you to:

Read the information contained in this Supplementary Owner's
Manual before you start off in your new BMW. It contains impor-
tant notes on vehicle operation that will allow you to make full use
of the technical advantages of your BMW.

We wish you a pleasant and safe driving experience

BMW AG

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Contents

The fastest way to find specific topics is to refer to the index starting on page [44](#).

[4](#) Notes

At a glance

[8](#) Cockpit

Controls

[16](#) Adjusting

[18](#) Driving

[20](#) Everything under control

[21](#) Technology for comfort, convenience and safety

Driving tips

[28](#) Things to remember when driving

[29](#) BMW X5 M / BMW X6 M technology

Mobility

[32](#) Refueling

[34](#) Wheels and tires

[36](#) Under the hood

[37](#) Replacing components

Reference

[40](#) Technical data

[44](#) Everything from A to Z

Notes

About this Owner's Manual

This Supplementary Owner's Manual contains all essential equipment, instructions, and technical data in which the BMW X5 M / BMW X6 M differs from the BMW X5 / BMW X6. For a description of equipment not contained in this Supplementary Owner's Manual, please refer to the Owner's Manual of the BMW X5 / BMW X6 or possibly to other brochures included with the onboard literature.

We have made every effort to ensure that you are able to find what you need in this Supplementary Owner's Manual as quickly as possible. The fastest way to find specific topics is to refer to the detailed index at the back of the manual. If you wish to gain an initial overview of your vehicle, you will find this in the first chapter.

Should you sell your BMW some day, please remember to also pass the Supplementary Owner's Manual on to the new owner; it is an important component of your vehicle.

Symbols used



Indicates precautions that must be followed precisely in order to avoid the possibility of personal injury and serious damage to the vehicle.



Indicates information that will assist you in gaining the optimum benefit from your vehicle and enable you to care more effectively for your vehicle.



Refers to measures that can be taken to help protect the environment.

◀ Marks the end of a specific item of information.

"..." Identifies Control Display texts used to select individual functions.

>...< Verbal instructions to use with the voice activation system.

>>...<< Identifies the answers generated by the voice activation system.

Symbols on vehicle components



Indicates that you should consult the relevant section of this Owner's Manual for information on a particular part or assembly.

Vehicle equipment

This Supplementary Owner's Manual describes all models and all series, country-specific, and special equipment offered in the model series.

This Supplementary Owner's Manual therefore also describes and depicts equipment that may not exist in your vehicle because of the selected special equipment or the country-specific version.

This also applies to safety-related functions and systems.

If equipment and models are not described in this Supplementary Owner's Manual, please refer to the Owner's Manual BMW X5 / BMW X6.

In right-hand drive vehicles, the controls may be arranged differently than shown in the illustration.

Status of this Owner's Manual at time of printing

BMW pursues a policy of continuous, ongoing development that is conceived to ensure that our vehicles continue to embody the highest quality and safety standards combined with advanced, state-of-the-art technology. For this reason, in rare cases, the features described in this Supplementary Owner's Manual may differ from those in your vehicle.



At a glance

This overview of buttons, switches and displays is intended to familiarize you with your vehicle's operating environment. The section will also assist you in becoming acquainted with the control concepts and options available for operating the various systems.

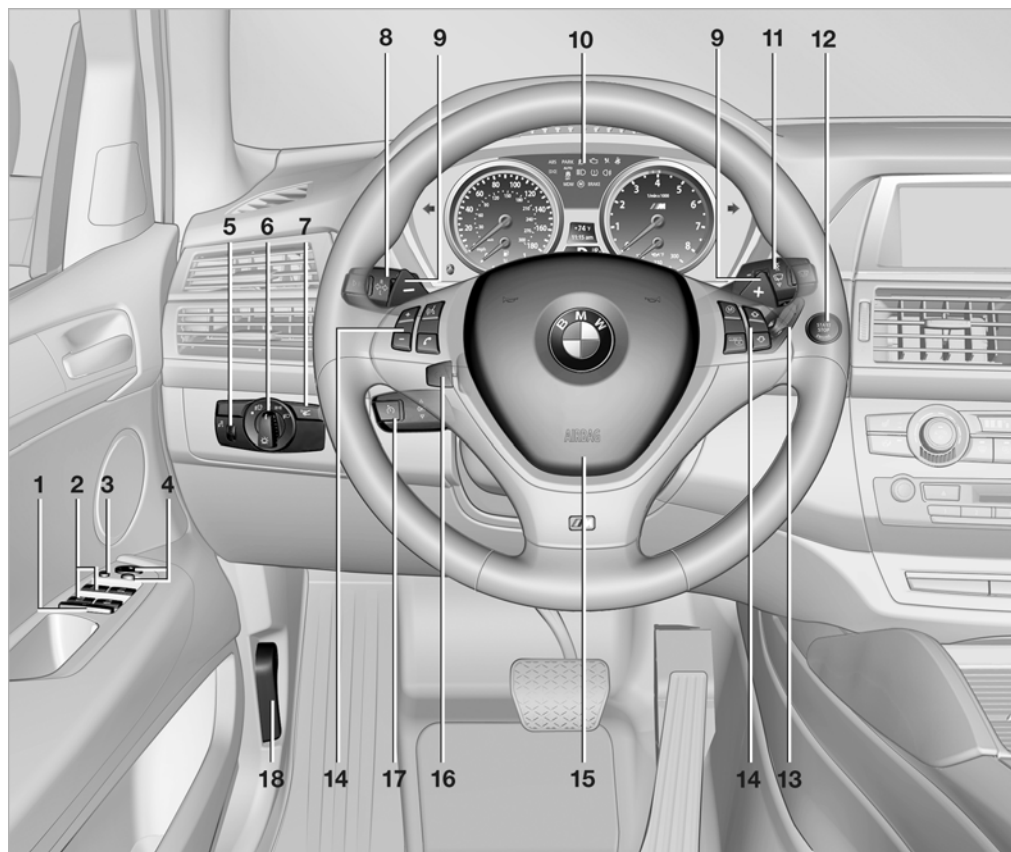
Cockpit

Vehicle equipment

This chapter describes all series, country-specific, and special equipment offered in the model series. Therefore, it also contains equip-

ment that may not be available in your vehicle because of the selected special equipment or the country-specific version. This also applies to safety-related functions and systems.

Around the steering wheel: controls and displays



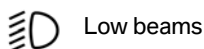
▶ For the description of components without page references, please refer to the respective keyword in the Owner's Manual of the BMW X5 / BMW X6. ◀

- 1 Rear window safety switch
- 2 Opening and closing windows
- 3 Folding exterior mirrors in and out

- 4** Adjusting exterior mirrors
Automatic curb monitor

- 5**  Instrument lighting

- 6**  Parking lamps



Low beams



Automatic headlamp control
Adaptive Head Light
High-Beam Assistant

- 7**  Head-Up Display

- 8**  Turn signal



High beams, headlamp flasher



High-beam Assistant



Roadside parking lamps



Time, date, outside temperature,



Check Control



Computer

- 9** Shift paddles [18](#)

- 10** Instrument panel [10](#)

- 11**  Windshield wiper
Rain sensor



BMW X5:
Rear window wiper

- 12**  Starting/stopping engine and
switching ignition on/off

- 13** Ignition lock

- 14** Buttons on steering wheel



Telephone



Volume



Activating/deactivating voice
activation system



Changing radio station
Selecting track



Scrolling through the radial list



M Drive, accessing individual
settings [16](#)



Steering wheel heating



Next entertainment source

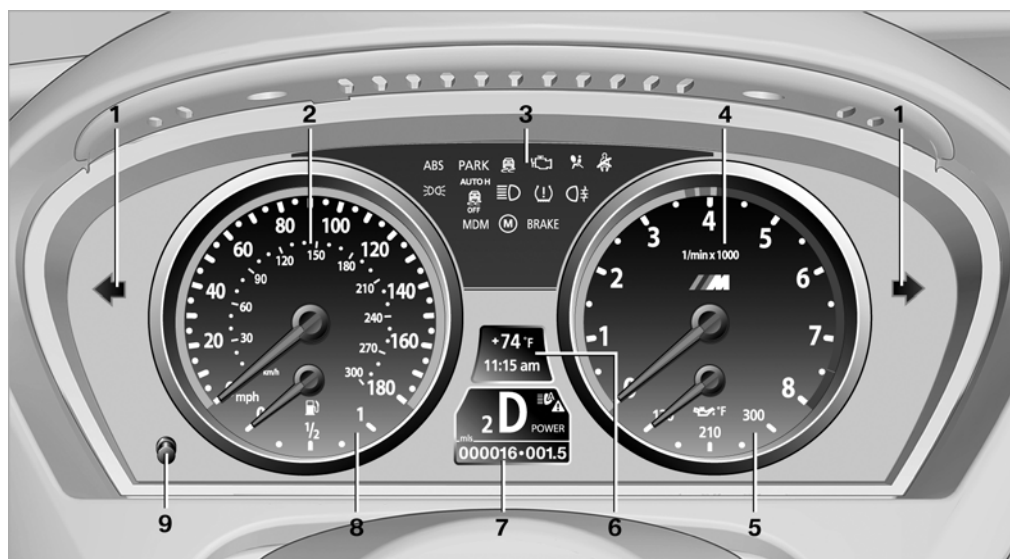
- 15** Horn, entire surface

- 16**  Steering wheel adjustment

- 17**  Cruise control

- 18** Releasing hood

Instrument panel



NM/10246CMA

▶ For the description of components without page references, please refer to the respective keyword in the Owner's Manual of the BMW X5 / BMW X6. ◀

- | | |
|---|---|
| <ol style="list-style-type: none"> 1 Indicator lamps for turn signals 2 Speedometer 3 Indicator and warning lamps 11 4 Tachometer 20 5 Engine oil temperature 20 6 Display for <ul style="list-style-type: none"> ▶ Clock/date ▶ Outside temperature ▶ Computer ▶ Indicator and warning lamps ▶ Speed of cruise control | <ol style="list-style-type: none"> 7 Display for <ul style="list-style-type: none"> ▶ Trip odometer/odometer ▶ M Engine Dynamic Control 19 ▶ Date and remaining travel distance for service requirements ▶ M Sport Automatic transmission positions ▶ HDC Hill Descent Control ▶ High-beam Assistant ▶ ▲ Check Control message present 8 Fuel gauge 9 Button for <ul style="list-style-type: none"> ▶ Resetting trip odometer ▶ Displaying service requirements |
|---|---|

Indicator and warning lamps

The concept



The indicator and warning lamps can light up in different combinations and colors.

Some lamps are tested for proper function by briefly lighting up during starting of the engine or when the ignition is switched on.

take action can be accessed via the Check Control, refer to the Owner's Manual for Vehicle.

Indicator lamps without text messages

The following indicator lamps indicate that certain functions are activated:

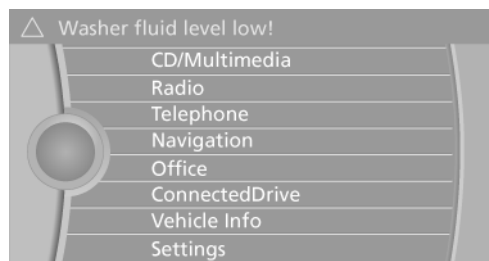


M Drive 16

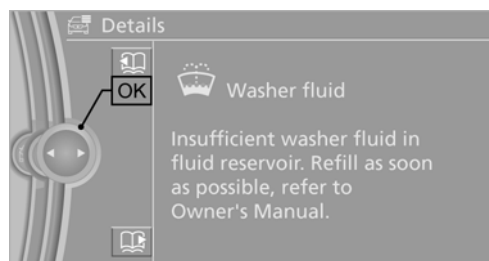


M Dynamic Mode 21

Explanatory text messages

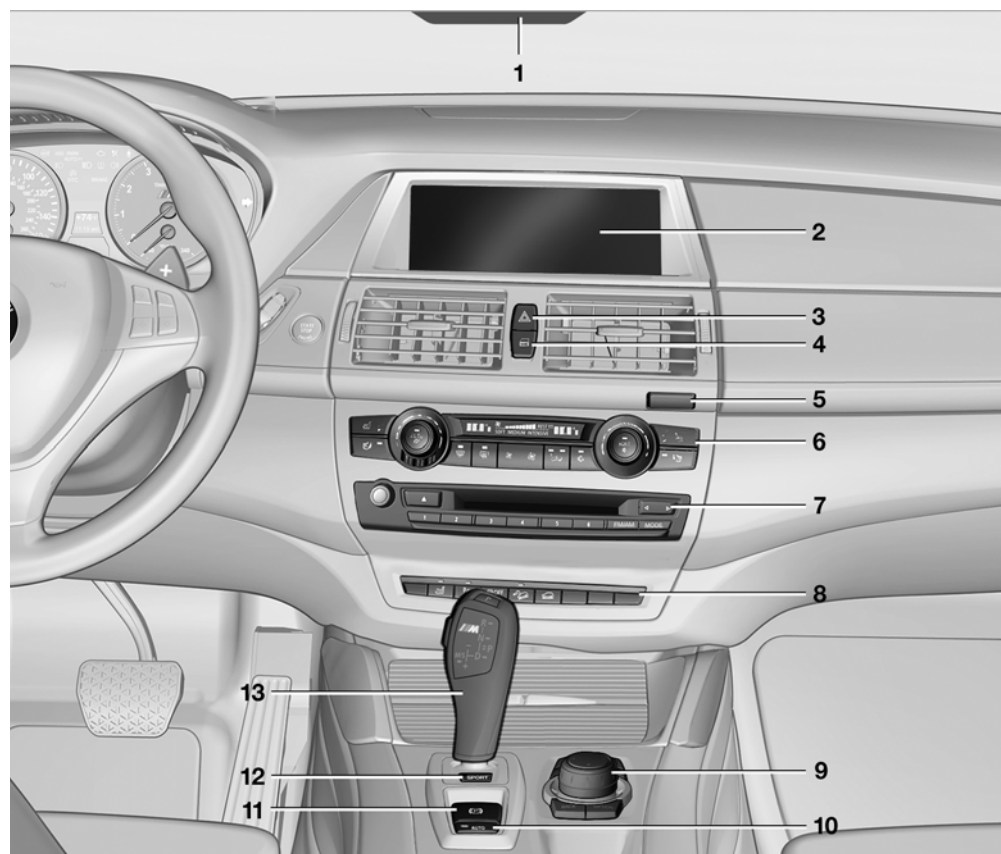


Text messages at the upper edge of the Control Display explain the meaning of the displayed indicator and warning lamps.



Additional information, e.g. on the cause of a malfunction and on the corresponding need to

Around the center console: controls and displays



For the description of components without page references, please refer to the respective keyword in the Owner's Manual of the BMW X5 / BMW X6. ◀

- 1 Headliner
- 2 Control Display
- 3 Hazard warning flashers
- 4 Central locking system
- 5 Opening glove compartment

6 Automatic climate control



Manual air distribution

AUTO

Automatic air distribution and volume



Cooling function



AUC Automatic recirculated-air control



MAX Maximum cooling



Air volume



Defrosting windows



Rear window defroster



Seat heating



Active seat ventilation

7 Radio and CD/DVD drive

8 Active seat



PDC Park Distance Control

Rear view camera with Top View



DSC Dynamic Stability

Control [21](#)

M Dynamic Mode [21](#)



HDC Hill Descent Control



Unlocking/opening liftgate



Side View

9 Controller with buttons

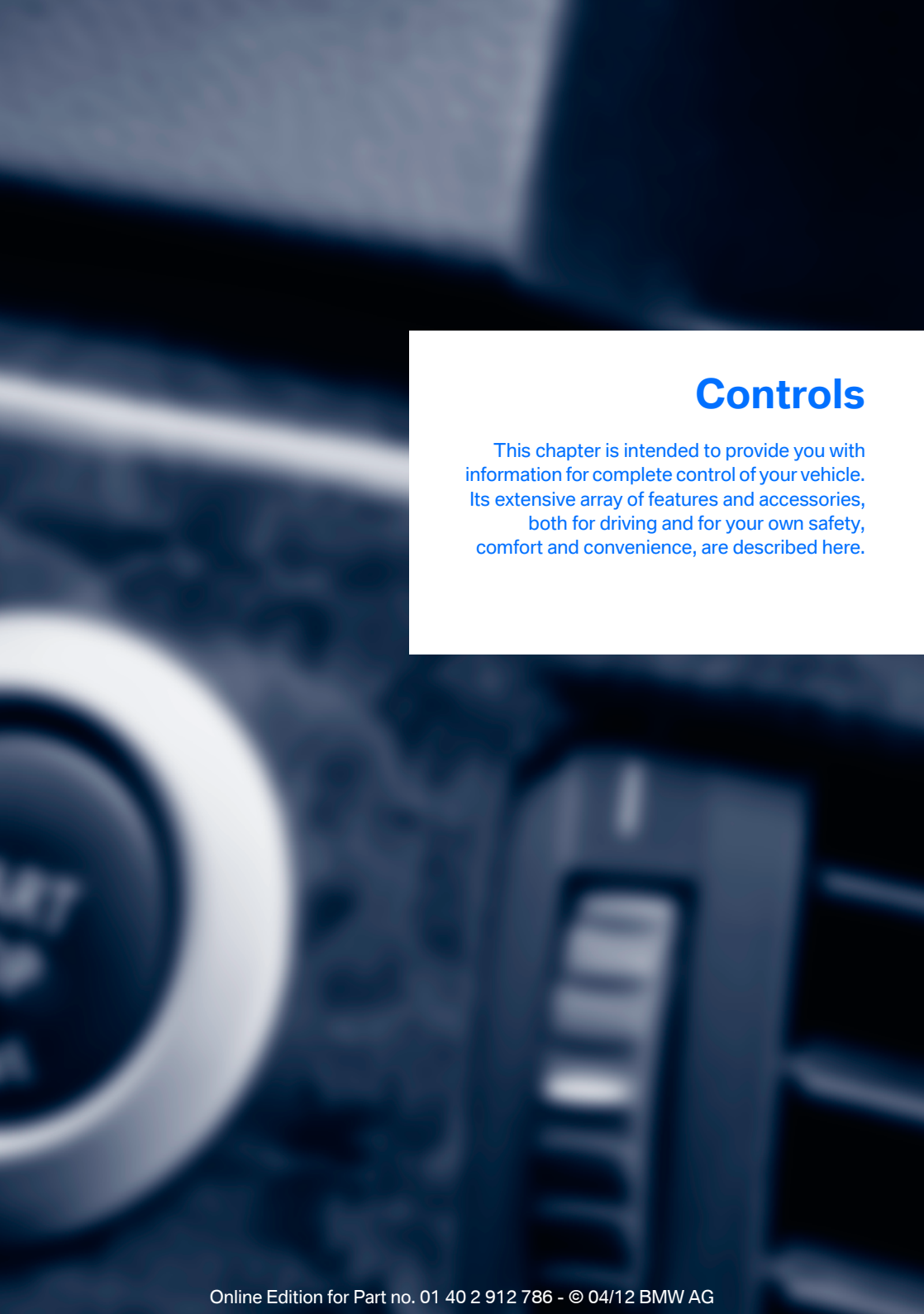
10 Automatic Hold

11 Parking brake

12 EDC Electronic Damping Control [23](#)

13 Selector lever for M Sport automatic transmission [18](#)



A close-up, blurred photograph of a car's interior controls, featuring a circular knob on the left and a vertical gear shifter on the right, both with metallic accents.

Controls

This chapter is intended to provide you with information for complete control of your vehicle. Its extensive array of features and accessories, both for driving and for your own safety, comfort and convenience, are described here.

Adjusting

Vehicle equipment

This chapter describes all series, country-specific, and special equipment offered in the model series. Therefore, it also contains equipment that may not be available in your vehicle because of the selected special equipment or the country-specific version. This also applies to safety-related functions and systems.

M Drive

The concept

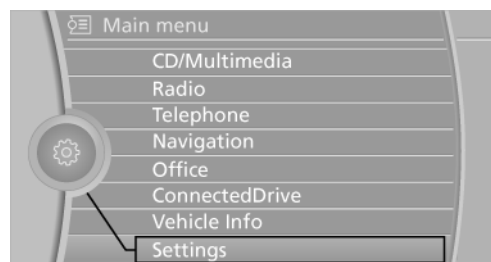
With M Drive, you can configure several individual settings for your vehicle on the Control Display. The settings influence the engine characteristics, driving dynamics control, damper adjustment, and Head-Up Display.

- ▷ M Engine Dynamic Control 19
- ▷ DSC Dynamic Stability Control 22
- ▷ Head-Up Display 24
- ▷ EDC Electronic Damping Control 23

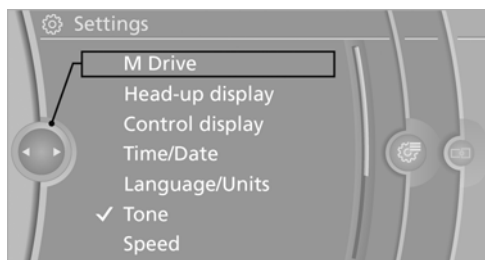
Configuring settings

With the ignition switched on, you can adjust M Drive on the Control Display.

1. "Settings"



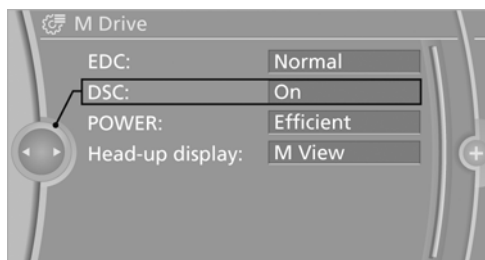
2. "M Drive"



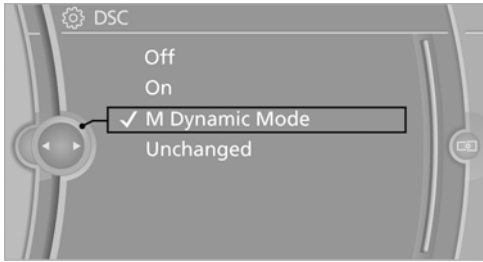
The functions contained in M Drive are displayed:

- ▷ "EDC:"
Program for steering adjustment and electronic damping control EDC, refer to page 23.
- ▷ "DSC:"
Dynamic Stability Control and M Dynamic Mode, refer to page 21.
- ▷ "POWER:"
M Engine Dynamic Control program, refer to page 19.
- ▷ "Head-up display:"
Select "M View", also refer to page 23.

3. Select the desired function, e.g. "DSC:".



4. Select the desired setting.



"Unchanged" maintains the current setting made from outside M Drive, e.g. using the button in the center console.

Activating settings

Press the  button on the steering wheel.

 The indicator lamp in the instrument panel lights up. The settings for M Drive made on the Control Display are active.

 If the indicator lamp flashes after the button is pressed, then M Drive could not be activated because the ABS Antilock Brake System or DSC Dynamic Stability Control is currently regulating driving stability. Press the  button again when the indicator lamp no longer flashes. ◀

Even with M Drive activated, you can change individual settings from outside M Drive, e.g. with the buttons in the center console. To reactivate all settings made for M Drive on the Control Display: press the  button twice.

With M Drive activated, changes made on the Control Display are applied immediately.

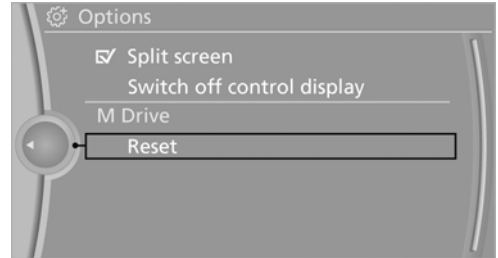
Deactivating settings

Press the  button on the steering wheel again. M Drive is deactivated. The indicator lamp in the instrument panel goes out.

Restoring settings

You can restore all settings for M Drive to the default values:

1. "Settings"
2. "M Drive"
3. Move the controller to the right repeatedly until the "Options" menu is selected.
4. "Reset"



5. Confirm by clicking "Yes".

Operating by voice activation

You can also select the "M Drive" menu by voice activation.

 >M Drive< .
The menu is selected.

Driving

Vehicle equipment

This chapter describes all series, country-specific, and special equipment offered in the model series. Therefore, it also contains equipment that may not be available in your vehicle because of the selected special equipment or the country-specific version. This also applies to safety-related functions and systems.

M Sport Automatic transmission

Transmission positions

D Drive, automatic position

Position for normal vehicle operation. All forward gears are shifted automatically. Gear shifts are carried out with an emphasis on comfort.

Sport program

Pressing the selector lever to the left switches you into the sport program. The sport program supports a performance-oriented driving style.

Manual mode M/S

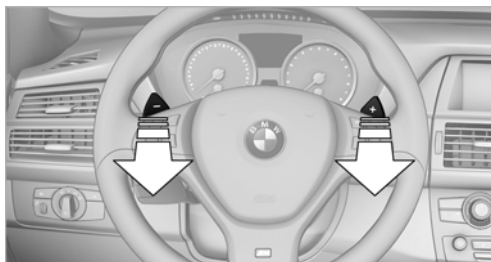
Switch from D Drive into manual mode M/S:

- ▷ Press the selector lever to the left and shift gears using the selector lever
- ▷ Shift gears using the shifting paddles

▶ In the manual mode, the M Sport Automatic transmission will not upshift after the maximum engine speed is reached. ◀

Gear changes

Using shift paddles on steering wheel



- ▷ To upshift, briefly pull the right shift paddle +.
 - ▷ To downshift, briefly pull the left shift paddle –.
- ▶ In the manual mode, the M Sport Automatic transmission will not upshift after the maximum engine speed is reached. ◀

Shift lights in the Head-Up Display

To permit the best possible acceleration of a sporty driving style, when the M Sport Automatic transmission is in the manual mode, shift lights in the Head-Up Display indicate the optimum shifting time just before the maximum engine speed is reached, refer to Head-Up Display page 23.

Launch Control

On a road surface with good traction, Launch Control permits an optimum acceleration when starting off.



Do not use Launch Control too often; otherwise, the high stress on the vehicle will lead to premature component wear. ◀

Only use Launch Control when the engine is warm; otherwise, increased wear may occur.

Do not use Launch Control when towing a trailer.

1. While the vehicle is stationary and the engine is running, press the brake pedal with your left foot.
2. With the transmission in M/S mode, shift into M1.
3. Activate MDM mode or deactivate DSC Dynamic Stability Control, refer to page 21.
4. Select the "Sport" program of the M Engine Dynamic Control.
5. Press the accelerator pedal all the way down with your right foot. The engine speed is controlled for starting off. The flag symbol appears in the instrument panel.
6. When the brake pedal is released, the vehicle accelerates. Continue flooring the accelerator pedal.
7. Upshifting occurs automatically as long as the accelerator pedal remains completely floored.

Launch Control will be available again only after a certain amount of time.

Do not use Launch Control during the break-in period, refer to page 28.



To maintain vehicle stability, always activate DSC whenever possible. ◀

M Engine Dynamic Control/POWER

With M Engine Dynamic Control you can influence how sporty the reaction of your vehicle to accelerator pedal movements is to be. Two programs are available to you.

The "Efficient" program is activated after each engine start.

"Efficient" program

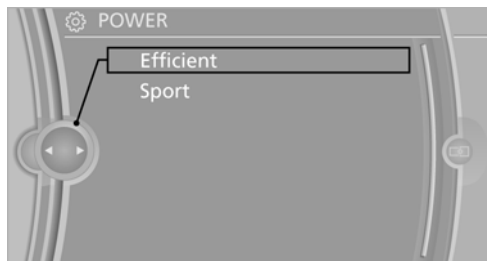
In the "Efficient" program, a lower fuel consumption is achieved. The engine and the M Sport Automatic transmission respond to accelerator pedal movements with an emphasis on comfort, which is ideal in city traffic or in snow, for example.

"Sport" program

The "Sport" program permits the engine and the M Sport Automatic transmission to respond more spontaneously to accelerator pedal movements. The acoustics of your BMW X5 M / BMW X6 M become more sporty. POWER is displayed in the instrument panel.

Adjustments via M Drive

1. "Settings"
2. "M Drive"
3. "POWER"
4. "Efficient" or "Sport"



Press the  button on the steering wheel, refer to M Drive on page 16. M Drive is activated, with the settings you have selected.



Be aware of the settings for DSC in M Drive; otherwise, driving stability can be impaired and there is the risk of accident. ◀

Cruise control

Unlike the description in the BMW X5 / BMW X6 Owner's Manual, the cruise control is not automatically deactivated in the M Dynamic Mode.

Everything under control

Vehicle equipment

This chapter describes all series, country-specific, and special equipment offered in the model series. Therefore, it also contains equipment that may not be available in your vehicle because of the selected special equipment or the country-specific version. This also applies to safety-related functions and systems.

Tachometer



The yellow advance warning field, arrow **1**, changes depending on the engine temperature. As the engine temperature rises, the permissible engine speed also increases.

During the warm-up phase, avoid engine speeds in the advance warning field as much as possible.

When the engine speeds reach the red warning field, arrow **2**, the engine speed governor is activated to protect the engine.

Engine oil temperature



When the engine is warm, the engine oil temperature is between 175 °F / 80 °C and 250 °F / 120 °C.

When the engine oil temperature is too high, a message appears on the Control Display.

Technology for comfort, convenience and safety

Vehicle equipment

This chapter describes all series, country-specific, and special equipment offered in the model series. Therefore, it also contains equipment that may not be available in your vehicle because of the selected special equipment or the country-specific version. This also applies to safety-related functions and systems.

Driving stability control systems

Unlike the description in the BMW X5 / BMW X6 Owner's Manual, your BMW X5 M / BMW X6 M does not have DTC Dynamic Traction Control.

DSC Dynamic Stability Control

DSC prevents traction loss in the driving wheels when starting off and accelerating. DSC also identifies unstable driving conditions, such as a loss of traction at the rear of the vehicle or sliding of the vehicle in its front wheels. In these cases, DSC helps the vehicle maintain a safe course within physical limits by reducing engine output and through braking actions in the individual wheels.

 The laws of physics cannot be repealed, even with DSC. An appropriate driving style always remains the responsibility of the driver. Therefore, do not reduce the additional safety margin further by taking risks. ◀

M Dynamic Mode MDM

The M Dynamic Mode is a mode of the DSC Dynamic Stability Control. It enables driving with greater longitudinal and lateral acceleration on dry road surfaces, however with limited vehicle stability. The system does not provide stabilizing intervention by reducing the engine

output and braking at the wheels until the absolute driving limit is reached. These driving conditions may require the driver to make additional steering corrections.

The M Dynamic Mode is deactivated each time the engine is switched off.



With the M Dynamic Mode switched on, stabilizing interventions are only carried out to a reduced degree. Take action yourself, otherwise there is a risk of an accident. ◀



To maintain vehicle stability, drive with DSC switched on and the M Dynamic Mode switched off whenever possible. ◀

Activating MDM



Press the button; the MDM indicator lamp in the instrument panel lights up.

Deactivating MDM



Press the button again.

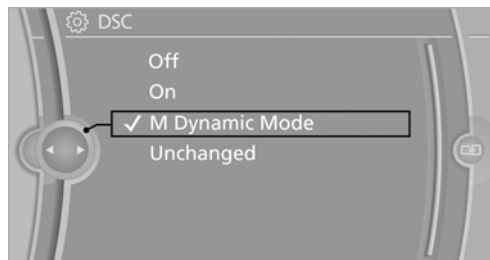
The MDM indicator lamp in the instrument panel goes out.

Adjustments via M Drive

With the ignition switched on, you can adjust the M Dynamic Mode via "M Drive" on the Control Display.

1. "Settings"
2. "M Drive"

3. "DSC"
4. Select "M Dynamic Mode".



Press the  button on the steering wheel, refer to M Drive on page 16. M Drive is activated, with the settings you have selected.

The indicator lamp in the instrument panel lights up.

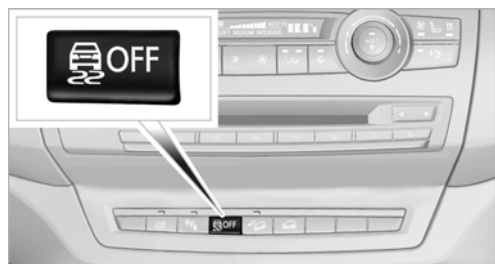
 Be aware of the settings for DSC in M Drive; otherwise, driving stability can be impaired and there is the risk of accident. ◀

For better control

MDM The indicator lamp lights up: M Dynamic Mode is activated.

MDM The MDM indicator lamp lights up continuously and the DSC indicator lamp flashes: M Dynamic Mode regulates the driving and brake forces.

Deactivating DSC



Press and hold the button until the indicator lamp for DSC lights up and DSC OFF is displayed in the instrument panel; do not press the button for longer than approx. 10 seconds. DSC

and M Dynamic Mode are simultaneously deactivated. Stabilizing interventions are now not carried out.

A message appears on the Control Display.

You may find it useful to briefly deactivate DSC under the following special circumstances:

- ▷ When driving on snowy inclines, in slush, or on unplowed, snow-covered road surfaces
- ▷ When rocking a stuck vehicle free or starting off in deep snow or on loose ground
- ▷ When driving with snow chains

To increase vehicle stability, activate DSC again as soon as possible.

Activating DSC



Press the button again.

Adjustments via M Drive

With the ignition switched on, you can also adjust DSC via M Drive on the Control Display, also refer to page 16.

1. "Settings"
2. "M Drive"
3. "DSC"
4. Select the desired setting.

Press the  button on the steering wheel, refer to M Drive on page 16. M Drive is activated, with the settings you have selected.



To maintain vehicle stability, always activate DSC whenever possible. ◀

For better control



The indicator lamp flashes: DSC controls the drive forces and brake forces.

The indicator lamp lights up: DSC is malfunctioning.



The indicator lamp lights up: DSC and MDM are deactivated.

EDC Electronic Damping Control

The concept

If the influencing variables such as road surface quality or operating conditions such as steering, braking etc. change, the damping automatically adjusts to the new conditions within a fraction of a second.

You can select between two programs to influence the adjustment of the shock absorbers and steering.

"Normal" program

The "Normal" program offers a well-balanced adjustment of the shock absorbers and steering.

"Sport" program

Select the "Sport" program if you want a consistently sporty coordination of shock absorbers and steering.

Selecting program



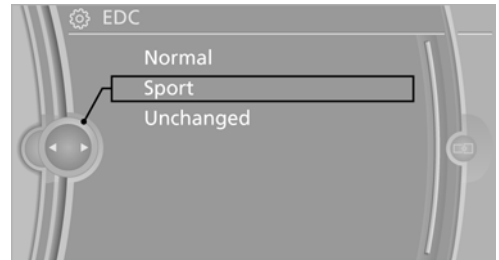
Press the EDC button.

- ▷ Sport:
The LED in the button lights up.
- ▷ Normal:
The LED in the button goes out.

Adjustments via M Drive

You can also use M Drive to set the program you prefer.

1. "Settings"
2. "M Drive"
3. "EDC"
4. Select the desired setting.



Press the  button on the steering wheel, refer to M Drive on page 16. M Drive is activated, with the settings you have selected.



Be aware of the settings for DSC in M Drive; otherwise, driving stability can be impaired and there is the risk of accident. ◀

Head-Up Display

Switching on/off



Press this button to switch the Head-Up Display on or off.

Selecting M view

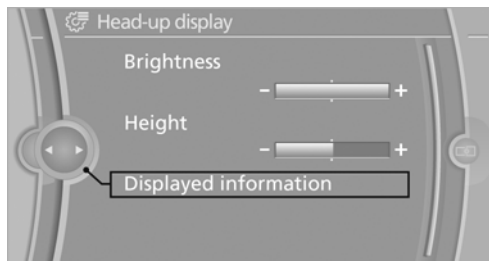
You can select the M view in the Head-Up Display via two different menus:

- ▷ "Displayed information"
- ▷ "M View"

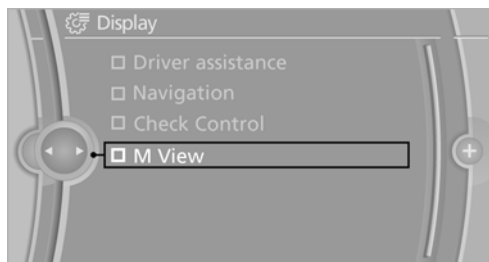
Adjusting via displayed information

1. "Settings"
2. "Head-up display"

3. "Displayed information"



4. Select "M View".



✔ "M View": the M view appears in the Head-Up Display. Information unavailable in the M view appears on the Control Display in gray and cannot be selected.

❑ "M View": the default view is displayed. The following information can be displayed:

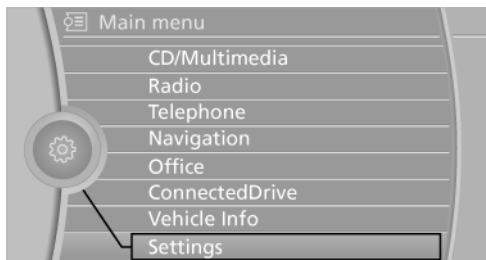
- ▷ Current speed/cruise control
- ▷ Navigation instructions
- ▷ Check Control messages

For additional information on the Head-Up Display, refer to the Owner's Manual for Vehicle.

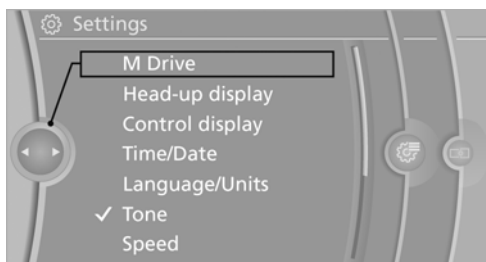
Adjustments via M Drive

You can also set the M view via M Drive.

1. "Settings"

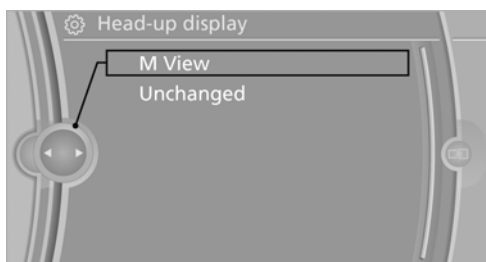


2. "M Drive"



3. "Head-up display"

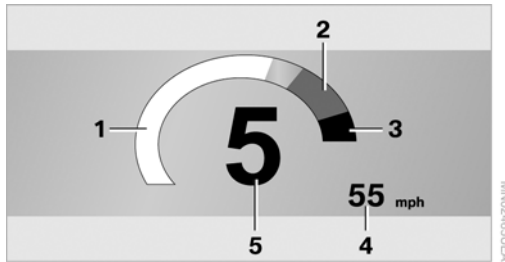
4. "M View"



Press the  button on the steering wheel to activate the M view, also refer to M Drive on page 16.

 Be aware of the settings for DSC in M Drive; otherwise, driving stability can be impaired and there is the risk of accident. ◀

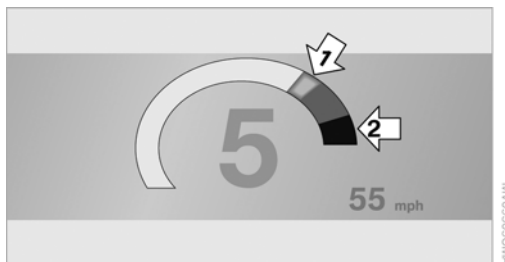
M view



- 1 Current engine speed, highlighted
- 2 Advance warning field of tachometer
- 3 Red warning field of tachometer, also refer to Tachometer on page 20
- 4 Speed
- 5 Gear display

Shift lights

In manual mode, shift lights indicate the optimum shift time, see page 18. This permits the best possible acceleration in a sporty driving style.



The current engine speed is highlighted in the display.

- ▶ Arrow 1: fields consecutively lit up in yellow indicate the approaching upshift point.
- ▶ Arrow 2: at the very latest, shift when the field lights up in red.

The whole engine speed display flashes when the maximum allowable engine speed is reached.

When the maximum rpm is exceeded, the engine speed governor is activated to protect the engine. Always avoid engine speeds in this range.



Driving tips

This section is designed to provide you with extra support by supplying information useful in dealing with specific driving and operating conditions.

Things to remember when driving

Vehicle equipment

This chapter describes all series, country-specific, and special equipment offered in the model series. Therefore, it also contains equipment that may not be available in your vehicle because of the selected special equipment or the country-specific version. This also applies to safety-related functions and systems.

Break-in period

Please note the following ways in which your BMW X5 M / BMW X6 M differs from the description given in the Owner's Manual for the BMW X5 / BMW X6.

Do not use Launch Control, refer to page 18, during the break-in period.

Engine and differential

Always obey all official speed limits.

Up to 1,200 miles/2,000 km

Drive at varying engine and driving speeds, but do not exceed 5,500 rpm or 105 mph/170 km/h.

Avoid full-throttle operation and use of the transmission's kick-down mode during these initial miles.

From 1,200 miles/2,000 km to 3,000 miles/5,000 km

The engine and driving speed can gradually be increased up to a continuous vehicle speed of 135 mph/220 km/h. Only drive at top speed briefly, e.g. when passing.

Transmission

The function of the transmission is only at its optimized level after driving a distance of approx. 300 miles/500 km. During this time, do not exceed engine speeds of 5,500 rpm.

Following part replacement

Observe the break-in instructions again if components mentioned above must be replaced after subsequent driving operation.

General driving notes

Ground clearance



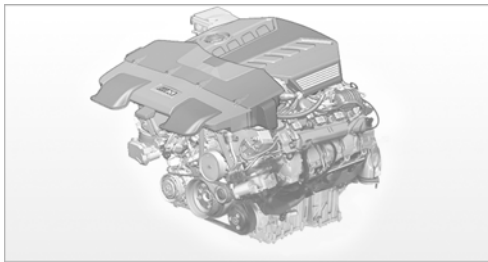
Make sure that there is always sufficient ground clearance, e.g. when entering underground garages or when driving over curb edges; otherwise, damage may occur to the front or rear spoiler. ◀

BMW X5 M / BMW X6 M technology

Vehicle equipment

This chapter describes all series, country-specific, and special equipment offered in the model series. Therefore, it also contains equipment that may not be available in your vehicle because of the selected special equipment or the country-specific version. This also applies to safety-related functions and systems.

M TwinPower Turbo engine



The M TwinPower Turbo engine is a high-performance V8 engine. With a 268.2 cu in/4.4 liter displacement, this engine generates a maximum output of 555 hp and a maximum torque of 500 lb ft/680 Nm. It features spontaneous response characteristics and a very broad usable engine speed range. The maximum engine speed is 6,800 rpm and is electronically controlled.

Warming up

During the warm-up phase, the high-performance V8 engine will have slightly rougher running characteristics and a temporarily elevated idle speed.

When the engine is cold, the exhaust system has a slightly metallic undertone due to the system design.

For additional information on warming up, refer to Tachometer and Engine oil temperature on page 20.

Drive train

The xDrive all-wheel-drive system produces a constantly variable torque distribution between the front and rear axle. The combination of xDrive and Dynamic Performance Control gives your BMW X5 M / BMW X6 M the highly dynamic driving characteristics typical of a BMW M series. The dynamics and steering precision in all road speed ranges can be increased even further by activating the M Dynamic mode.

Driving on a racetrack

Before you drive on a racetrack, BMW recommends:

- ▷ Participation in BMW driver training
- ▷ Having the vehicle checked at your BMW Sports Activity Vehicle Center

At high engine loads, high component temperatures may cause the system to reduce performance in order to protect the engine. Full performance is restored after cooling.

 Racetrack driving leads to increased wear. The BMW X5 M / BMW X6 M is not designed for use in motor sport competition. This added wear is not covered under the warranty. ◀

The production brake linings and wear indicators are not designed for racetrack driving. Your BMW Sports Activity Vehicle Center will be happy to advise you.





Mobility

This section helps you maintain your mobility by supplying important information on vital topics including fuels and lubricants, wheels and tires, service, maintenance and roadside assistance.

Refueling

Vehicle equipment

This chapter describes all series, country-specific, and special equipment offered in the model series. Therefore, it also contains equipment that may not be available in your vehicle because of the selected special equipment or the country-specific version. This also applies to safety-related functions and systems.

Fuel grade

Please note the following ways in which your BMW X5 M / BMW X6 M differs from the description given in the Owner's Manual for the BMW X5 / BMW X6.

Gasoline

For optimum fuel consumption, the gasoline should be sulfur-free or as low in sulfur as possible.

Do not use fuels that are labeled at the fuel pump as containing metals.



Do not refuel with leaded gasoline or gasoline containing metal additives, e.g., manganese or iron; otherwise, the catalytic converter and other components will be permanently damaged. ◀

Fuels with a maximum ethanol content of 10%, i.e. E10, can be used for refueling.

The ethanol must meet the following quality standards:

US: ASTM 4806-xx

CAN: CGSB 3.511-xx

xx: Comply with the respectively applicable standard.



Do not refuel with E85, i.e., fuel with an ethanol content of 85 %, or with FlexFuel, as this would damage the engine and fuel supply system. ◀

The engine has a knock control function. It can therefore be refueled using various fuel grades.

Recommended fuel grade

BMW recommends AKI 93.

Refuel with this gasoline in order to achieve the nominal values for vehicle performance and consumption.

Minimum fuel grade

BMW recommends AKI 91.



Do not use gasoline below the specified minimum quality, otherwise engine damage can result. ◀

If you use gasoline with this minimum AKI Rating, the engine may produce knocking sounds when starting at high outside temperatures. This has no effect on the engine life.



The use of poor-quality fuels may result in harmful engine deposits or damage.

Additionally, problems relating to drivability, starting and stalling may occur, especially under certain environmental conditions such as high ambient temperature and high altitude.

If you encounter drivability problems, we recommend switching to a high quality gasoline brand and a higher octane grade – AKI number – for a few tank refills. To avoid harmful engine deposits, we highly recommend purchasing gasoline from BP or Top Tier retailers.

Failure to comply with these recommendations may result in the need for unscheduled maintenance. ◀

BMW recommends BP fuels 

Wheels and tires

Vehicle equipment

This chapter describes all series, country-specific, and special equipment offered in the model series. Therefore, it also contains equipment that may not be available in your vehicle because of the selected special equipment or the country-specific version. This also applies to safety-related functions and systems.

Information for your safety

The factory approved tires with emergency operation properties are matched to your vehicle and when used properly, offer both optimum driving safety and the desired driving comfort.

Tire inflation pressures

BMW X5 M

Tire size	Pressure specifications in bar/PSI			
	Traveling speeds up to a max. of 100 mph/160 km/h		Traveling speeds including those exceeding 100 mph/160 km/h	
				
All pressure specifications in the table are indicated in bar/PSI with cold tires. Cold = ambient temperature				
Compact wheel: T 155/80 R 19 114 M	Speeds up to 50 mph/80 km/h 4.2/60			
255/50 R 19 107 H M+S XL RSC	2.6/38	2.6/38	2.8/41	3.2/46
255/50 R 19 107 V M+S XL RSC				
Front: 275/40 R 20 106 W XL RSC	2.6/38	-	3.0/44	-
Rear: 315/35 R 20 110 W XL RSC	-	2.6/38	-	3.0/44
Front: 285/35 R 21 105 W XL RSC	2.6/38	-	3.1/45	-
Rear: 325/30 R 21 108 W XL RSC	-	2.6/38	-	3.2/46
More details on the permissible load and weights can be found on page 43.				

BMW X6 M

Tire size	Pressure specifications in bar/PSI			
	Traveling speeds up to a max. of 100 mph/160 km/h		Traveling speeds including those exceeding 100 mph/160 km/h	
All pressure specifications in the table are indicated in bar/PSI with cold tires. Cold = ambient temperature				
	Compact wheel: T 155/80 R 19 114 M		Speeds up to 50 mph/80 km/h 4.2/60	
255/50 R 19 107 H M+S XL RSC	2.6/38	2.6/38	2.8/41	3.0/44
255/50 R 19 107 V M+S XL RSC				
Front: 275/40 R 20 106 W XL RSC	2.6/38	-	3.0/44	-
Rear: 315/35 R 20 110 W XL RSC	-	2.6/38	-	3.0/44
Front: 285/35 R 21 105 W XL RSC	2.6/38	-	3.1/45	-
Rear: 325/30 R 21 108 W XL RSC	-	2.6/38	-	3.1/45
More details on the permissible load and weights can be found on page 43 .				

Snow chains

Use of snow chains is only permitted in pairs, with winter tires of the size 255/50 R 19 on the rear wheels.



After snow chains are installed, do not initialize the Flat Tire Monitor or reset Tire Pressure Control as these may result in incorrect readings.

When you are driving with snow chains, it can be beneficial to briefly deactivate DSC, refer to page [22](#). ◀

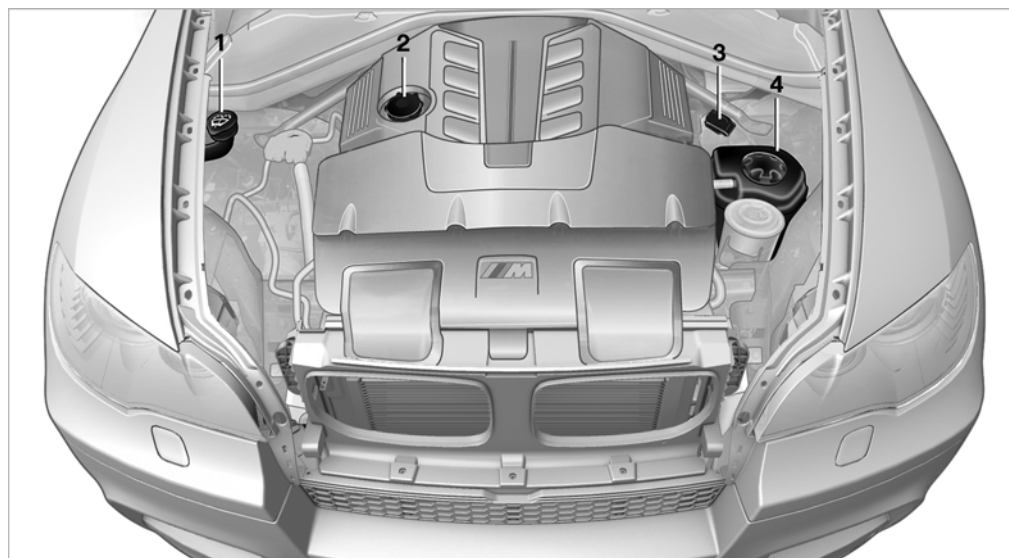
Under the hood

Vehicle equipment

This chapter describes all series, country-specific, and special equipment offered in the model series. Therefore, it also contains equip-

ment that may not be available in your vehicle because of the selected special equipment or the country-specific version. This also applies to safety-related functions and systems.

Engine compartment



- 1 Reservoir for washer fluid for the headlamp and windshield washer system
- 2 Filler neck for engine oil, refer to Owner's Manual for Vehicle
- 3 Jump starting terminal
- 4 Expansion tank for coolant

Replacing components

Vehicle equipment

This chapter describes all series, country-specific, and special equipment offered in the model series. Therefore, it also contains equipment that may not be available in your vehicle because of the selected special equipment or the country-specific version. This also applies to safety-related functions and systems.

LED headlamps

With the LED headlamp package, the following lamps use LED technology:

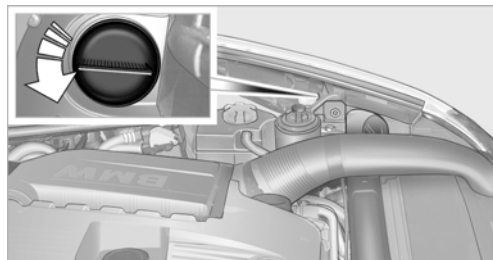
- ▷ Low beams/High beams
- ▷ Adaptive light control
- ▷ Parking lamps, roadside parking lamps
- ▷ Daytime running lights
- ▷ Side marker light

Please contact your BMW Sports Activity Vehicle Center if these malfunction.

Turn signals, front

24-watt bulb, PY24W

1. Rotate bulb holder to the left and remove it along with the bulb.



2. Rotate the bulb to the right along with the socket and replace.
3. Install in the reverse order.



Reference

This chapter contains technical data and the index that is the fastest way to find the information you are looking for.

Technical data

Vehicle equipment

This chapter describes all series, country-specific, and special equipment offered in the model series. Therefore, it also contains equip-

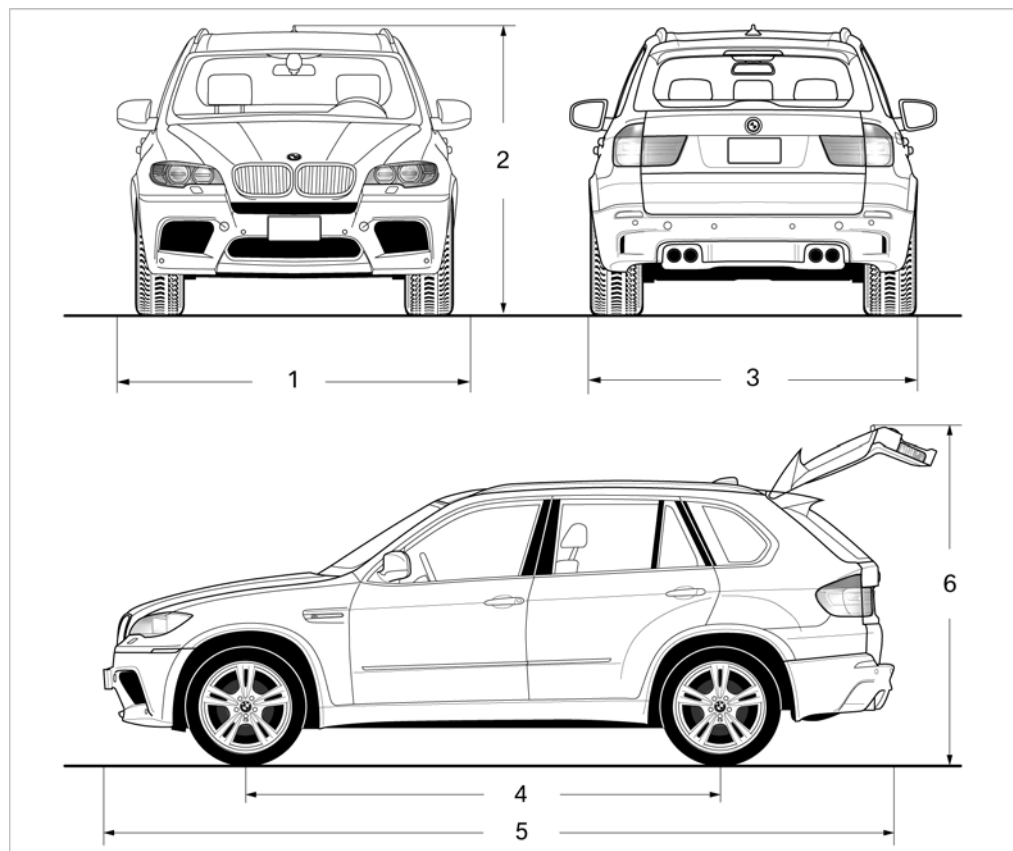
ment that may not be available in your vehicle because of the selected special equipment or the country-specific version. This also applies to safety-related functions and systems.

Engine data

BMW X5 M / BMW X6 M		
Displacement	cu in/cm ³	268/4,395
No. of cylinders		8
Maximum output	hp	555
at engine speed	rpm	6,000
Maximum torque	lb ft/Nm	500/680
at engine speed	rpm	1,500-5,650

Dimensions

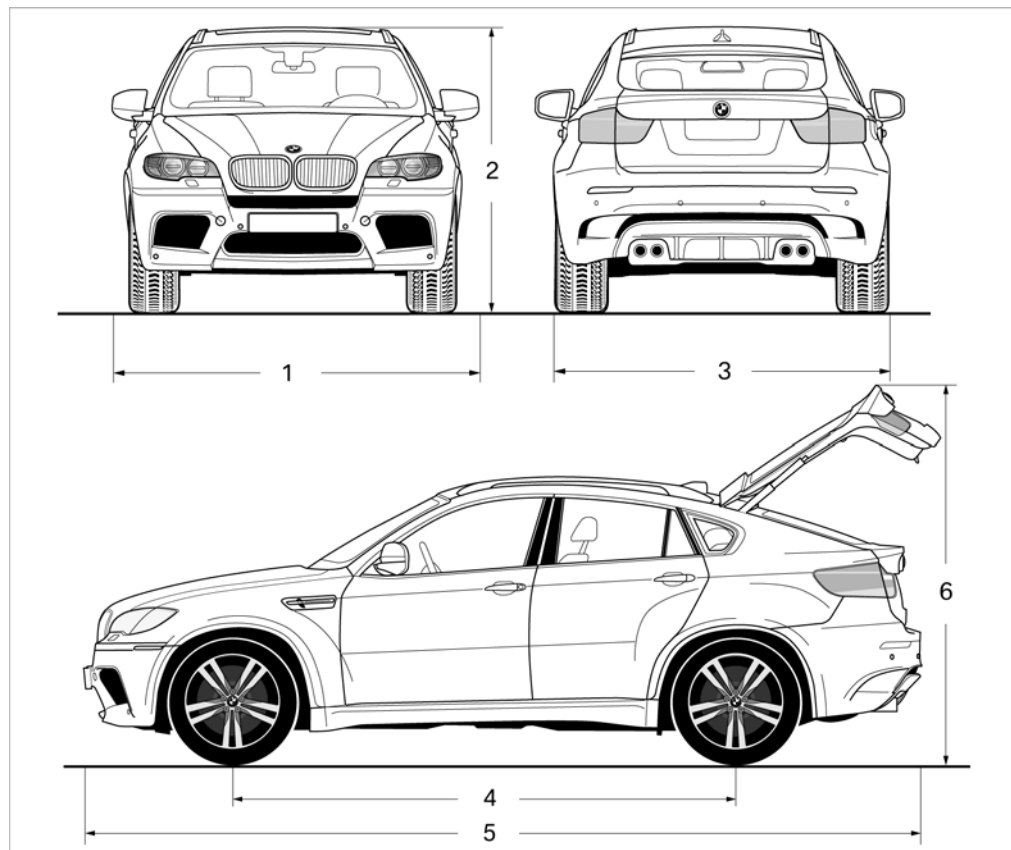
BMW X5 M



- | | |
|---|---|
| 1 Vehicle width, with exterior mirrors:
86.5 in/2,197 mm | 4 Wheelbase: 115.5 in/2,933 mm |
| 2 Vehicle height: 69.4 in/1,764 mm | 5 Vehicle length: 191 in/4,851 mm |
| 3 Vehicle width, without exterior mirrors:
78.5 in/1,994 mm | 6 Tailgate opening height:
83.5 in/2,121 mm |

Smallest turning circle dia. 42 ft/12.8 m.

BMW X6 M



- | | |
|---|---|
| 1 Vehicle width, with exterior mirrors:
86.4 in/2,195 mm | 4 Wheelbase: 115.5 in/2,933 mm |
| 2 Vehicle height: 66.3 in/1,684 mm | 5 Vehicle length: 192 in/4,876 mm |
| 3 Vehicle width, without exterior mirrors:
78.1 in/1,983 mm | 6 Tailgate opening height:
89.8 in/2,282 mm |

Smallest turning circle dia. 42 ft/12.8 m.

Weights

BMW X5 M		
Curb weight	lbs/kg	5,368/2,435
Approved gross vehicle weight	lbs/kg	6,471/2,935
Load	lbs/kg	1,102/500
Approved front axle weight	lbs/kg	3,153/1,430
Approved rear axle weight	lbs/kg	3,505/1,590
Cargo bay capacity	cu ft/liters	35.8-75.2/620-1,750
Do not exceed the approved axle weights and the approved gross vehicle weight.		

BMW X6 M		
Curb weight	lbs/kg	5,324/2,415
Approved gross vehicle weight	lbs/kg	6,261/2,840
Load	lbs/kg	937/425
Approved front axle weight	lbs/kg	3,153/1,430
Approved rear axle weight	lbs/kg	3,307/1,500
Cargo bay capacity	cu ft/liters	25.6-59.7/570-1,450
Do not exceed the approved axle weights and the approved gross vehicle weight.		

Capacities

			Notes
Fuel tank	US gal/liters	approx. 22.5/85	Fuel grade: page 32
of that reserve	US gal/liters	approx. 3.2/12	
Windshield washer with headlamp washer system	US quarts/liters	approx. 6.9/6.5	For more details: Owner's Manual for Vehicle

Electrical system

BMW X5 M / BMW X6 M		
Battery capacity	Ah	90
Generator output	A/W	210/2,940

Everything from A to Z

Index

A

Acceleration assistant, refer to Launch Control [18](#)
Approved front axle weight, refer to Weights [43](#)
Approved gross vehicle weight, refer to Weights [43](#)
Assistance systems, refer to Dynamic Stability Control DSC [21](#)
Axle weights, refer to Weights [43](#)

B

Breaking-in the differential, refer to Engine and differential [28](#)
Breaking-in transmission, refer to Transmission [28](#)
Break-in period [28](#)

C

Cargo bay
– capacity [43](#)
Center console, refer to Around the center console [12](#)
Cockpit [8](#)
Comfort area, refer to Around the center console [12](#)
Contents [3](#)
Controls and displays [8](#)
Copyright [2](#)
Cruise control [19](#)
Curb weight, refer to Weights [43](#)
Cylinders, refer to Engine data [40](#)

D

Dashboard, refer to Cockpit [8](#)
Data [40](#)
– dimensions [41](#)
– engine data [40](#)
– technical [40](#)
Data, technical
– capacities [43](#)
– electrical system [43](#)
– engine data [40](#)
– weights [43](#)
Dimensions [41](#)
Displacement, refer to Engine data [40](#)
Display elements, refer to Instrument panel [10](#)
Displays, refer to Instrument panel [10](#)
Displays and controls [8](#)
Displays on the windshield, refer to Head-Up Display [23](#)
Driving stability control systems [21](#)
DSC Dynamic Stability Control [21](#)
– indicator lamp [22](#)

E

EDC Electronic Damping Control [23](#)
Electronic Damping Control EDC [23](#)
Engine
– breaking-in [28](#)
– data [40](#)
– M Engine Dynamic Control [19](#)
– speed [20](#)
Engine compartment [36](#)

Engine data [40](#)
Engine oil temperature [20](#)
Engine oil thermometer, refer to Engine oil temperature [20](#)
Engine output, refer to Engine data [40](#)
Engine speed, refer to Engine data [40](#)
ESP Electronic Stability Program, refer to DSC Dynamic Stability Control [21](#)

F

Flat Tire Monitor
– snow chains [35](#)
Fuel
– quality [32](#)
Fuel, refer to Fuel specifications [32](#)

G

Gasoline, refer to Fuel specifications [32](#)
General driving notes [28](#)
Gross vehicle weight, refer to Weights [43](#)
Ground clearance [28](#)

H

Hazard warning flashers [12](#)
Head-Up Display [23](#)
– M view [25](#)
– shift lights [18, 25](#)
Height, refer to Dimensions [41](#)
Hood [36](#)
Horn [8](#)

I

Imprint [2](#)
 Indicator/warning lamps
 – M Drive [17](#)
 – M Dynamic Mode [22](#)
 Instrument combination, refer to Instrument panel [10](#)
 Instrument panel [10](#)
 Instrument panel, refer to Cockpit [8](#)

L

Launch Control [18](#)
 Length, refer to Dimensions [41](#)

M

MDM, refer to M Dynamic Mode [21](#)
 M Drive [16](#)
 M Dynamic Mode MDM [21](#)
 – indicator lamp [22](#)
 Measurements, refer to Dimensions [41](#)
 M Engine Dynamic Control [19](#)
 M Sport Automatic transmission [18](#)
 M view [25](#)

O

Octane rating, refer to Fuel specifications [32](#)
 Oil temperature [20](#)
 Output, refer to Engine data [40](#)

P

POWER, refer to M Engine Dynamic Control [19](#)

R

Refueling [32](#)
 Research octane number, refer to Fuel grade [32](#)
 Run-flat tires [34](#)

S

Safety systems, refer to
 – DSC Dynamic Stability Control [21](#)
 Settings
 – configuring, refer to M Drive [16](#)
 Shifting, M Sport Automatic transmission [18](#)
 Shift lights [18](#)
 Shift paddles on steering wheel [18](#)
 Shock absorber control, refer to EDC Electronic Damping Control [23](#)
 Signal horn, refer to Horn [8](#)
 Speedo, refer to Speedometer [10](#)
 Speedometer [10](#)
 Sport program, M Sport Automatic transmission [18](#)
 Stability control, refer to
 – Driving stability control [21](#)
 – DSC Dynamic Stability Control [21](#)
 Status of this Owner's Manual at time of printing [5](#)
 Steering wheel [8](#)
 – M Drive button [16](#)
 – shift paddles [18](#)
 Switches, refer to Cockpit [8](#)
 Symbols [4](#)

T

Tachometer [20](#)
 Technical data [40](#)
 Temperature gauge
 – engine oil [20](#)

Tempomat, refer to Cruise control [19](#)
 Tire inflation pressures [35](#)
 Torque, refer to Engine data [40](#)
 Track width, refer to Dimensions [41](#)
 Traction-assist feature, refer to DSC Dynamic Stability Control [21](#)
 Traction control, refer to DSC Dynamic Stability Control [21](#)
 Transmission
 – Launch Control [18](#)
 – shift lights [18](#)
 Trunk capacity, refer to Cargo bay capacity [43](#)
 Turning circle, refer to Dimensions [41](#)
 Turn signals
 – replacing bulbs [37](#)

U

Upshift display, refer to Shift lights [25](#)

V

Vehicle
 – breaking-in [28](#)
 – measurements, refer to Dimensions [41](#)
 – weights [43](#)
 Volume
 – cargo bay, refer to Weights [43](#)

W

Weights [43](#)
 Wheelbase, refer to Dimensions [41](#)
 Wheels and tires [34](#)
 Width, refer to Dimensions [41](#)

Windshield

– displays, refer to Head-Up

Display [23](#)

Y

Your individual vehicle

– settings, refer to M Drive [16](#)

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