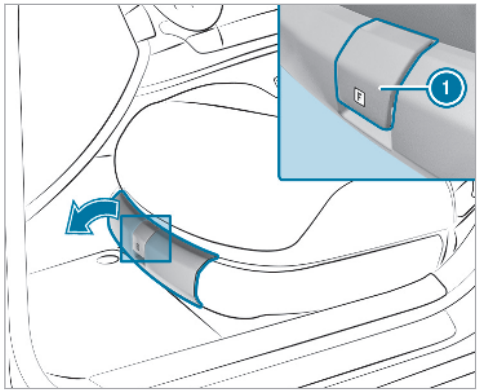
Removing the fire extinguisher



NOTE Damage to the stowage compartment

- Keep the stowage compartment closed while the vehicle is moving.

- Pull handle (1) up and fold the cover forwards in the direction of the arrow.
- Remove the fire extinguisher from the stowage compartment.

Flat tyre

Notes on flat tyres

WARNING Risk of accident due to a flat tyre

A flat tyre severely affects the driving characteristics as well as the steering and braking of the vehicle.

Tyres without run-flat characteristics:

- Do not drive with a flat tyre.
- Change the flat tyre immediately with an emergency spare wheel or spare wheel. Alternatively, consult a qualified specialist workshop.

Tyres with run-flat characteristics:

- Observe the information and warning notes on MOExtended tyres (run-flat tyres).

In the event of a flat tyre, the following options are available depending on your vehicle's equipment:

- **Vehicles with MOExtended tyres:** it is possible to continue the journey for a short period of time. Make sure you observe the notes on MOExtended tyres (run-flat tyres) (→ page 471).
- **Vehicles with a TIREFIT kit:** you can repair the tyre so that it is possible to continue the journey for a short period of time. To do this, use the TIREFIT kit (→ page 472).
- **Vehicles with Mercedes me connect:** you can make a call for breakdown assistance via the overhead control panel in the case of a breakdown (→ page 400).
- **All vehicles:** change the wheel (→ page 500).

Notes on MOExtended tyres (run-flat tyres)

⚠ **WARNING** Risk of accident when driving in limp-home mode

Driving in emergency mode impairs the handling characteristics of the vehicle.

- ▶ Do not exceed the permissible maximum speed of the MOExtended tyres.
- ▶ Avoid any abrupt steering and driving manoeuvres as well as driving over obstacles (kerbs, pot holes, off-road). This applies, in particular, to a loaded vehicle.
- ▶ Stop driving in the emergency mode if you notice:
  - banging noise
  - vehicle vibration
  - smoke which smells like rubber
  - continuous ESP® intervention
  - cracks in the tyre sidewalls
- ▶ After driving in emergency mode, have the rims checked by a qualified specialist workshop with regard to their further use.
- ▶ The defective tyre must be replaced in every case.

With MOExtended tyres (run-flat tyres), you can continue to drive your vehicle even if there is a total loss of pressure in one or more tyres. However, the tyre affected must not show any clearly visible damage.

You can recognise MOExtended tyres by the MOExtended marking which appears on the side wall of the tyre.

Vehicles with tyre pressure monitoring system: MOExtended tyres may only be used in conjunction with an activated tyre pressure monitoring system.

If a pressure loss warning message appears in the driver's display, proceed as follows:

- Check the tyre for damage.
- If driving on, observe the following notes.

Driving distance possible in emergency mode after the pressure loss warning:

Load condition	Driving distance possible in emergency mode
Partially laden	80 km
Fully laden	30 km

The driving distance possible in emergency mode may vary depending on the driving style. Observe the maximum permissible speed of 80 km/h.

If a tyre has gone flat and cannot be replaced with an MOExtended tyre, you can use a standard tyre as a temporary measure.

TIREFIT kit storage location

Depending on the vehicle's equipment, the storage bag for the TIREFIT kit is located in the luggage compartment or on the left side of the stowage net. Comply with the loading guidelines (→ page 119).

ⓘ You can find information on the power category (LK) and/or electrical data on the back of the tyre inflation compressor:

- LK2 – 12 V/15 A, 180 W, 0.8 kg

At a distance of approximately 1 m to the tyre inflation compressor and approximately 1.6 m above the ground, the following sound pressure levels apply:

- Emissions sound pressure level L_{PA} 83 dB (A)
- Sound power level L_{WA} 91 dB (A)

The tyre inflation compressor is maintenance-free. If there is a malfunction, please contact a qualified specialist workshop.

Using the TIREFIT kit

Requirements:

- Tyre sealant bottle and tyre inflation compressor (→ page 471).
- TIREFIT sticker
- Gloves (depending on the vehicle equipment)

You can use TIREFIT tyre sealant to seal perforation damage of up to 4 mm, particularly those in the tyre contact surface. You can use TIREFIT in outside temperatures down to -20 °C.

⚠ **WARNING** Risk of accident when using tyre sealant

The tyre sealant may be unable to seal the tyre properly, especially in the following cases:

- there are cuts or punctures in the tyre larger than damage previously mentioned.
- the wheel rim is damaged.
- you have driven at very low tyre pressures or on a flat tyre.

▶ Do not drive on.

▶ Consult a qualified specialist workshop.

⚠ **WARNING** Risk of injury and poisoning from tyre sealant

Tyre sealant is hazardous to health and causes irritation. Do not allow it to come into contact with your skin, eyes or clothing, and do not swallow it. Do not inhale any vapours. Keep the tyre sealant away from children.

Observe the following if you come into contact with the tyre sealant:

▶ Rinse off the tyre sealant from your skin using water immediately.

▶ If tyre sealant gets into your eyes, thoroughly rinse them using clean water immediately.

▶ If tyre sealant has been swallowed, thoroughly rinse out your mouth immediately and drink plenty of water. Do not induce vomiting and seek medical attention immediately.

▶ Change out of clothing which has come into contact with tyre sealant immediately.

- If an allergic reaction occurs, seek medical attention immediately.

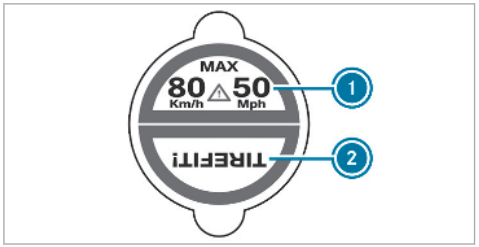
! **NOTE** Overheating due to the tyre inflation compressor running too long

- Do not run the tyre inflation compressor for longer than ten minutes without interruption.

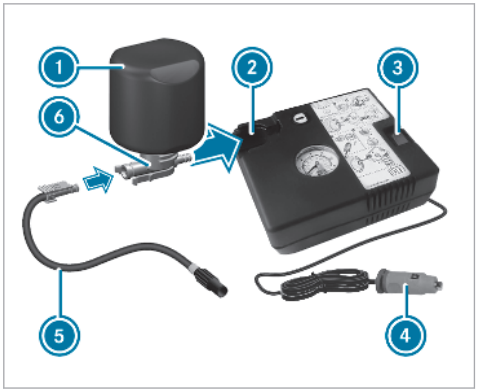
Comply with the manufacturer's safety notes on the sticker on the tyre inflation compressor.

Have the tyre sealant bottle replaced in a qualified specialist workshop every five years.

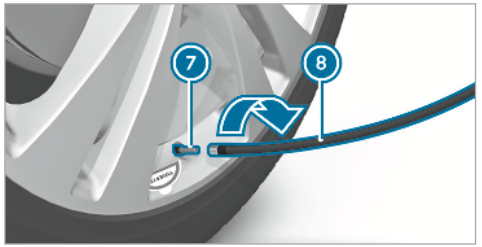
- Do not remove any foreign objects which have entered the tyre.



- Affix part (1) of the TIREFIT sticker to the instrument cluster within the driver's field of vision.
- Affix part (2) of the TIREFIT sticker near the valve on the wheel with the defective tyre.



- Pull plug (4) with the cable and hose (5) out of the tyre inflation compressor housing.
- Push the plug of hose (5) into flange (6) of tyre sealant bottle (1) until the plug engages.
- Place tyre sealant bottle (1) head downwards into recess (2) of the tyre inflation compressor.



- Remove the cap from valve (7) on the faulty tyre.
- Screw filling hose (8) onto valve (7).
- Insert plug (4) into a 12 V socket in your vehicle.
- Switch on the ignition.
- Switch on the tyre inflation compressor using the On/Off switch (3).
  The tyre is inflated. First, tyre sealant is pumped into the tyre. The pressure may briefly rise to approximately 500 kPa (5 bar/73 psi).

Do not switch off the tyre inflation compressor during this phase!

- Let the tyre inflation compressor run for a maximum of ten minutes.
  The tyre should then have attained a tyre pressure of at least 200 kPa (2.0 bar/29 psi).

If tyre sealant leaks out, make sure you clean the affected area as quickly as possible. It is preferable to use clean water.

If you get tyre sealant on your clothing, have it cleaned as soon as possible with perchloroethylene.

If, after ten minutes, a tyre pressure of 200 kPa (2.0 bar/29 psi) has not been attained:

- Switch off the tyre inflation compressor.
- Unscrew the filling hose from the valve of the defective tyre.

Please note that tyre sealant may leak out when unscrewing the filling hose.

- Drive forwards or reverse very slowly for approximately 10 m.
- Pump up the tyre again.
  After a maximum of ten minutes the tyre pressure must be at least 200 kPa (2.0 bar/29 psi).

WARNING Risk of accident due to the specified tyre pressure not being attained

If the minimum tyre pressure is not reached after the specified time, the tyre is too badly damaged. The tyre sealant cannot repair the tyre in this instance.

The braking and driving characteristics may be greatly impaired.

- Do not continue driving.
- Consult a qualified specialist workshop.

If, after ten minutes, a tyre pressure of 200 kPa (2.0 bar/29 psi) has been attained:

- Switch off the tyre inflation compressor.
- Unscrew the filling hose from the valve of the defective tyre.

WARNING Risk of accident from driving with sealed tyres

A tyre temporarily sealed with tyre sealant impairs the handling characteristics and is not suitable for higher speeds.

- Adapt your driving style accordingly and drive carefully.
- Do not exceed the maximum speed limit with a tyre that has been repaired using tyre sealant.

- Observe the maximum permissible speed for a tyre sealed with tyre sealant 80 km/h.

NOTE Staining from leaking tyre sealant

After use, excess tyre sealant may leak out from the filling hose.

- Therefore, place the filling hose in the plastic bag that contained the TIREFIT kit.

ENVIRONMENTAL NOTE Environmental pollution caused by environmentally irresponsible disposal

Tyre sealant contains pollutants.

- Have the tyre sealant bottle disposed of professionally, e.g. at a Mercedes-Benz Service Centre.

- Stow the tyre sealant bottle, the tyre inflation compressor and the warning triangle.
- Pull away immediately.
- Stop driving after approximately ten minutes and check the tyre pressure using the tyre inflation compressor.
  The tyre pressure must now be at least 130 kPa (1.3 bar/19 psi).

WARNING Risk of accident due to the specified tyre pressure not being attained

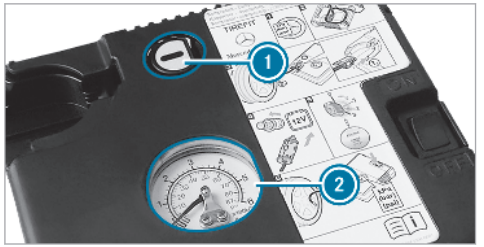
If the specified tyre pressure is not reached, the tyre is too badly damaged. The tyre sealant cannot repair the tyre in this instance.

The braking and driving characteristics may be greatly impaired.

- Do not continue driving.
- Consult a qualified specialist workshop.

Countries that have Mercedes-Benz Service24h: you will find a sticker with the telephone number, e.g. on the B-pillar on the driver's side.

- Correct the tyre pressure if it is still at least 130 kPa (1.3 bar/19 psi). See the tyre pressure table on the fuel filler flap for values.
- **To increase the tyre pressure:** switch on the tyre inflation compressor.



- **To reduce the tyre pressure:** press pressure release button (1) next to manometer (2).
- When the tyre pressure is correct, unscrew the filling hose from the valve of the sealed tyre.
- Screw the valve cap onto the valve of the sealed tyre.
- Pull the tyre sealant bottle out of the tyre inflation compressor.
  The filling hose stays on the tyre sealant bottle.
- Drive to the nearest qualified specialist workshop and have the tyre, tyre sealant bottle and filling hose replaced there.

Battery (vehicle)

Notes on the 12 V battery

WARNING Risk of an accident due to work carried out incorrectly on the battery

Work carried out incorrectly on the battery can, for example, lead to a short circuit. This can restrict functions relevant for safety systems and impair the operating safety of your vehicle.

You could lose control of the vehicle in the following situations in particular:

- when braking
- in the event of abrupt steering manoeuvres and/or when the vehicle's speed is not adapted to the road conditions

- In the event of a short circuit or a similar incident, contact a qualified specialist workshop immediately.
- Do not drive on.
- Always have work on the battery carried out at a qualified specialist workshop.

- Further information on ABS (→ page 205)
- Further information on ESP® (→ page 205)

For safety reasons, Mercedes-Benz recommends that you only use batteries which have been tested and approved for your vehicle by Mercedes-Benz.

All vehicles except vehicles with a lithium-ion battery

WARNING Risk of explosion due to electrostatic charge

Electrostatic charge can ignite the highly explosive gas mixture in the battery.

- To discharge any electrostatic charge that may have built up, touch the metal

vehicle body before handling the battery.

The highly flammable gas mixture is created while the battery is charging and during starting assistance.

WARNING Danger of chemical burns from the battery acid

Battery acid is caustic.

- Avoid contact with the skin, eyes or clothing.
- Do not lean over the battery.
- Do not inhale battery gases.
- Keep children away from the battery.
- Immediately rinse battery acid off thoroughly with plenty of clean water and seek medical attention immediately.

All vehicles

ENVIRONMENTAL NOTE Environmental damage due to improper disposal of batteries

Batteries contain pollutants. It is illegal to dispose of them with the household rubbish.

-

  Dispose of batteries in an environmentally responsible manner. Take discharged batteries to a qualified specialist workshop or to a collection point for used batteries.

If you have to disconnect the 12 V battery, contact a qualified specialist workshop.

Comply with safety notes and take protective measures when handling batteries.

Risk of explosion.

Fire, naked flames and smoking are prohibited when handling the battery. Avoid creating sparks.

Electrolyte or battery acid is corrosive. Avoid contact with the skin, eyes or clothing. Wear suitable protective clothing, in particular gloves, an apron and a face mask. Immediately rinse electrolyte or acid splashes off with clean water. Consult a doctor if necessary.

Wear safety glasses.

Keep children away.

Observe this Owner's Manual.

Observe the following if you do not intend to use the vehicle over an extended period of time:

- Activate standby mode.
- Alternatively: connect the battery to a battery charger approved by Mercedes-Benz or consult a qualified specialist workshop to disconnect the battery.

Notes on starting assistance and charging the 12 V battery

Vehicles with a lithium-ion battery
When charging the battery and during starting assistance, always use the jump-start connection point in the engine compartment.

! NOTE Damaging the battery through overvoltage

When using a battery charger without a maximum charging voltage, the battery or the vehicle electronics may be damaged.

▶ Only use battery chargers with a maximum charging voltage of 14.8 V.

All other vehicles
When charging the battery and during starting assistance, always use the jump-start connection point in the engine compartment.

! NOTE Damaging the battery through overvoltage

When using a battery charger without a maximum charging voltage, the battery or the vehicle electronics may be damaged.

▶ Only use battery chargers with a maximum charging voltage of 14.8 V.

⚠ WARNING Risk of explosion from hydrogen gas igniting

There is a danger of hydrogen gas igniting when charging the battery if there is a short circuit or sparks start to form.

▶ Make sure that the positive terminal of the connected battery does not come into contact with vehicle parts.

▶ Never place metal objects or tools on a battery.

▶ The described order of the battery clamps must be observed when connecting and disconnecting the battery.

▶ When giving starting assistance, always make sure that you only connect battery terminals with identical polarity.

▶ During starting assistance, you must observe the described order for connecting and disconnecting the jump lead.

▶ Do not connect or disconnect the battery clamps while the engine is running.

⚠ WARNING Risk of explosion during charging process and starting assistance

During the charging process and starting assistance, the battery may release an explosive gas mixture.

- ▶ Avoid fire, naked flames, creating sparks and smoking.
- ▶ Make sure there is sufficient ventilation.
- ▶ Do not lean over a battery.

⚠ WARNING Risk of explosion from a frozen battery

A discharged battery may freeze at temperatures slightly above or below freezing point.

During starting assistance or battery charging, battery gas can be released.

- ▶ Always allow a battery to thaw before charging it or performing starting assistance.

If the indicator/warning lamps in the instrument cluster do not light up at low temperatures, it is very likely that the discharged battery has frozen. In this case you may neither jump-start the vehicle nor charge the battery.

The service life of a battery that has been thawed may be dramatically shortened. The starting characteristics may be impaired, especially at low temperatures.

It is recommended that you have a thawed battery checked at a qualified specialist workshop.

All vehicles

! NOTE Damage caused by numerous or extended attempts to start the engine

Numerous or extended attempts to start the engine may damage the catalytic converter due to non-combusted fuel.

- ▶ Avoid numerous and extended attempts to start the engine.

Observe the following points during starting assistance and when charging the battery:

- Only use undamaged jump lead/charging cables with a sufficient cross-section and insulated terminal clamps.
- Non-insulated parts of the terminal clamps must not come into contact with other metal parts while the jump lead/charging cable is connected to the battery/jump-start connection point.
- The jump lead/charging cable must not come into contact with any parts which may move when the engine is running.
- Always make sure that neither you nor the battery is electrostatically charged.
- Keep away from fire and naked flames.
- Do not lean over the battery.

Observe the additional following points when charging the battery:

- Only use battery chargers tested and approved for Mercedes-Benz.
- Read the battery charger's operating instructions before charging the battery.

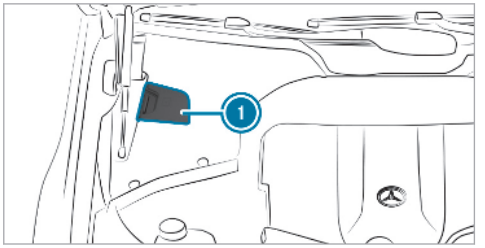
Observe the additional following points during starting assistance:

- Starting assistance may only be provided using vehicles, batteries or other jump start devices with a nominal voltage of 12 V.
- The vehicles must not touch.
- **Vehicles with a petrol engine:** jump-start the vehicle only when the engine and exhaust system are cold.

Starting assistance and charging the 12 V battery

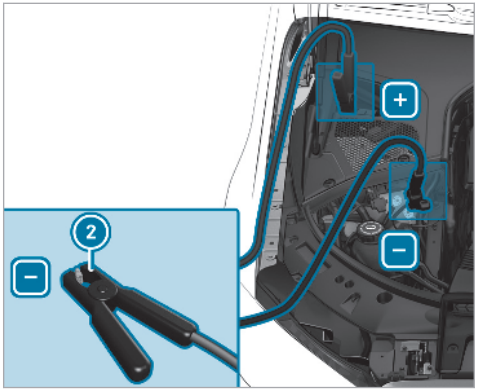
Preparing starting assistance/the charging process

- ▶ Secure the vehicle by applying the electric parking brake.
- ▶ Select transmission position P.
- ▶ Switch off the ignition and all electrical consumers.
- ▶ Open the bonnet.



- ▶ Open cover 1 of the positive contact.

Starting assistance



- ▶ Connect the positive contacts of the vehicles with the jump lead. Start with your own vehicle first.
- ▶ Start the engine of the donor vehicle and run it at idling speed.
- ▶ Connect negative terminal 2 of the donor battery to the earth point of your vehicle

using the jump lead. Start with the donor vehicle first.

- Start the engine of your own vehicle.
- Let the engines run for several minutes.
- Before disconnecting the jump leads, switch on an electrical consumer in your own vehicle, e.g. the rear window heater or the lighting.

When starting assistance has finished:

- First remove the jump lead from the earth point of your own vehicle and the negative pole of the donor battery, then remove the jump lead from the positive contacts of both vehicles. Always start with your own vehicle first.
- Close cover (1) of the positive contact.

Further information can be obtained at a qualified specialist workshop.

Charging the 12 V battery

- Connect the positive contacts of the vehicle and the charger with the charging cable. Start with the vehicle first.
- Connect the negative contact of the charger and earth point (2) on the vehicle with the charging cable. Start with the charger first.
- Start the charging process.

When the charging process is complete:

- Remove the charging cable from earth point (2) on the vehicle and the negative contact of the charger first and then from the positive contacts on the vehicle and charger. Always start with the vehicle first.
- Close cover (1) of the positive contact.

Replacing the 12 V battery

- Observe the notes on the 12 V battery (→ page 476).

Mercedes-Benz recommends that you have the 12 V battery replaced at a qualified specialist workshop, e.g. at a Mercedes-Benz Service Centre.

Observe the following notes if you want to replace the battery yourself:

- Always replace a faulty battery with a battery which meets the specific vehicle requirements.

  The vehicle is equipped with an AGM technology battery (Absorbent Glass Mat) or a lithium-ion battery. Full vehicle functionality is only guaranteed with an AGM battery or lithium-ion battery. For safety reasons, Mercedes-Benz recommends that you only use batteries which have been tested and approved for your vehicle by Mercedes-Benz.
- Carry over detachable parts, such as vent hoses, elbow fittings or terminal covers from the battery being replaced.
- Make sure that the vent hose is always connected to the original opening on the side of the battery.

  Fit any existing or supplied cell caps.

  Otherwise, gases or battery acid could escape.

- Make sure that detachable parts are reconnected in the same way.

Tow-starting or towing away

Permitted towing methods

! NOTE Damage from automatic braking

If one of the following functions is switched on, the vehicle brakes automatically in certain situations:

- Active Brake Assist
- Active Distance Assist DISTRONIC
- HOLD function
- Active Parking Assist

To avoid damage to the vehicle, deactivate these systems in the following or similar situations:

- ▶ During towing
- ▶ In a car wash

Mercedes-Benz recommends transporting your vehicle in the case of a breakdown, rather than towing it away.

For towing, use a tow rope or tow bar with both axles on the ground. Do not use tow bar systems (→ page 272).

! NOTE Damage to the vehicle due to towing away incorrectly

- ▶ Observe the instructions and notes on towing away.

Towing with a raised axle: towing should be performed by a towing company.

Permitted towing methods

Vehicles with automatic transmission	
Both axles on the ground	Yes, maximum 50 km at 50 km/h
Front axle raised	No
Rear axle raised	Yes, if the steering wheel is fixed in the centre position with a steering wheel lock

4MATIC vehicles	
Both axles on the ground	Yes, maximum 50 km at 50 km/h
Front axle raised	No
Rear axle raised	No

Towing the vehicle with both axles on the ground

- Observe the notes on the permitted towing methods (→ page 482).
- Make sure that the battery is connected and charged.

When the battery is discharged, the following actions cannot be performed:

- the engine cannot be started
- the electric parking brake cannot be released or applied
- the automatic transmission cannot be shifted to position N or P

ⓘ If the automatic transmission cannot be shifted to position N or the driver's display in the instrument cluster does not show anything, have the vehicle transported away (→ page 484). A towing vehicle with lifting equipment is required for vehicle transportation.

! NOTE Damage due to towing away at excessively high speeds or over long distances

The drivetrain could be damaged when towing at excessively high speeds or over long distances.

- A towing speed of 50 km/h must not be exceeded.
- A towing distance of 50 km must not be exceeded.

⚠ WARNING Risk of accident when towing a vehicle which is too heavy

If the vehicle being tow-started or towed away is heavier than the permissible gross mass, the following situations can occur:

- the towing eye may become detached.
- the car/trailer combination may swerve or even overturn.

- If another vehicle is tow-started or towed away, its weight must not exceed the permissible gross mass of your own vehicle.

If a vehicle must be tow-started or towed away, its weight must not exceed the permissible gross mass of the towing vehicle.

- Information on the permissible gross mass of the vehicle can be found on the vehicle identification plate (→ page 562).
- Do not open the driver's door or front passenger door, otherwise the automatic transmission automatically shifts to position P.
- Fit the towing eye (→ page 485).
- Fasten the tow bar.

! NOTE Damage due to incorrect connection of the tow bar

- Only connect the tow rope or tow bar to the towing eyes.

ⓘ You can also attach the tow bar to the trailer hitch.

- ▶ Deactivate the automatic locking mechanism (→ page 74).
- ▶ Do not activate the HOLD function.
- ▶ Deactivate tow-away protection (→ page 95).
- ▶ Deactivate Active Brake Assist (→ page 215).
- ▶ Shift the automatic transmission to position N.
- ▶ Release the electric parking brake.

⚠ **WARNING** Risk of accident due to limited safety-related functions during the towing process

Safety-related functions are limited or no longer available in the following situations:

- the ignition is switched off.
- the brake system or power steering system is malfunctioning.
- the energy supply or the on-board electrical system is malfunctioning.

When your vehicle is then towed away, significantly more effort may be required to steer and brake than is normally required.

- ▶ Use a tow bar.
- ▶ Make sure that the steering wheel can move freely, before towing the vehicle away.

! **NOTE** Damage due to excessive tractive power

If you pull away sharply, the tractive power may be too high and the vehicles could be damaged.

- ▶ Pull away slowly and smoothly.

Loading the vehicle for transport

- ▶ Observe the notes on towing away (→ page 483).
- ▶ Connect the tow bar to the towing eye in order to load the vehicle.

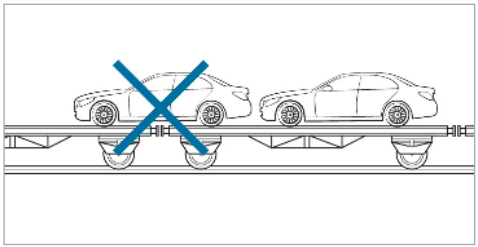
ⓘ You can also attach the tow bar to the trailer hitch.

- ▶ Shift the automatic transmission to position N.

ⓘ The automatic transmission may be locked in position P in the event of damage to the electrics. To shift to N, provide the on-board electrical system with power (→ page 480).

- ▶ Raise the vehicle in order to achieve greater ground clearance .
- ▶ Load the vehicle onto the transporter.
- ▶ Shift the automatic transmission to position P.
- ▶ Use the electric parking brake to secure the vehicle against rolling away.
- ▶ Only secure the vehicle by the wheels.

4MATIC vehicles

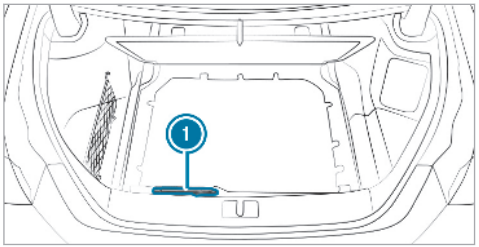


- Make sure that the front and rear axles come to rest on the same transportation vehicle.

NOTE Damage to the drivetrain due to incorrect positioning

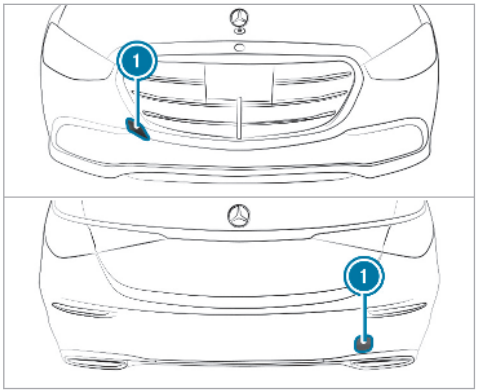
- Do not position the vehicle above the connection point of the transport vehicle.

Towing eye storage location



Towing eye 1 is located with the vehicle tool kit under the boot floor.

Installing the towing eye



- Press the mark on cover 1 inwards and remove.
- Screw in the towing eye clockwise as far as it will go and tighten.

Vehicles with a trailer hitch: vehicles with a trailer hitch do not have a rear bracket for the

towing eye. Fasten the tow bar to the trailer hitch.

ⓘ Make sure that cover (1) engages in the bumper when you remove the towing eye.

! NOTE Damage to the vehicle due to incorrect use of the towing eye

When a towing eye is used to recover a vehicle, the vehicle may be damaged in the process.

- Only use the towing eye to tow away or tow start the vehicle.

Tow-starting the vehicle (emergency engine start)

! NOTE Damage to the automatic transmission due to tow-starting

The automatic transmission may be damaged in the process of tow-starting vehicles with automatic transmission.

- Vehicles with automatic transmission must not be tow-started.

- Do not tow-start the vehicle.

Electrical fuses

Notes on electrical fuses

⚠ WARNING Risk of accident and injury due to overloaded lines

If you manipulate or bridge a faulty fuse or if you replace it with a fuse with a higher amperage, the electric line could be overloaded.

This could result in a fire.

- Always replace faulty fuses with specified new fuses containing the correct amperage.

! NOTE Damage due to incorrect fuses

Electrical components or systems may be damaged by incorrect fuses, or their functionality may be significantly impaired.

- Only use fuses that have been approved by Mercedes-Benz and which have the correct fuse rating.

Blown fuses must be replaced with fuses of the same rating, which you can recognise by the colour and fuse rating. The fuse ratings and further information to be observed can be found in the fuse assignment diagram.

Fuse assignment diagram: in the vehicle document wallet.

! NOTE Damage or malfunctions caused by moisture

Moisture may cause damage to the electrical system or cause it to malfunction.

- When the fuse box is open, make sure that no moisture can enter the fuse box.
- When closing the fuse box, make sure that the seal of the lid is positioned correctly on the fuse box.

If the newly inserted fuse also blows, have the cause traced and rectified at a qualified specialist workshop.

Ensure the following before replacing a fuse:

- The vehicle is secured against rolling away.
- All electrical consumers are switched off.
- The ignition is switched off.

The electrical fuses are located in the following fuse boxes:

- Fuse box in the engine compartment on the driver's side (→ page 487)
- Fuse box on the driver's side of the cockpit (→ page 489)
- Fuse box in the front passenger footwell (→ page 489)
- Fuse box in the boot on the right-hand side of the vehicle, when viewed in the direction of travel (→ page 490)

Opening and closing the fuse box in the engine compartment

Requirements:

- Observe the notes on electrical fuses (→ page 486).
- Have the following tools readily available:
  - a dry cloth
  - a screwdriver

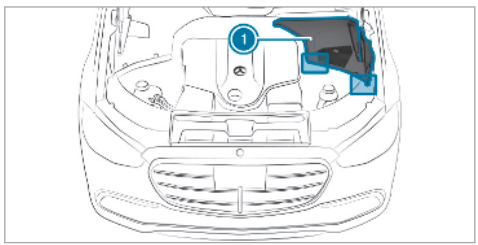
Opening

ⓘ Depending on the vehicle equipment, access to the fuse box may be limited. Mercedes-Benz recommends consulting a qualified specialist workshop, e.g. a Mercedes-Benz Service Centre.

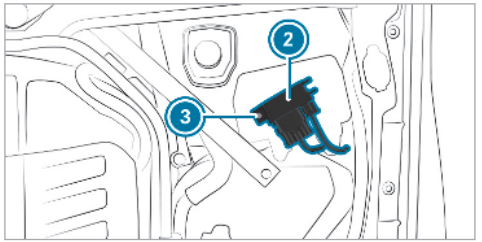
⚠ **WARNING** Risk of injury from using the windscreen wipers while the engine bonnet is open

When the engine bonnet is open, and the windscreen wipers are set in motion, you can be trapped by the wiper linkage.

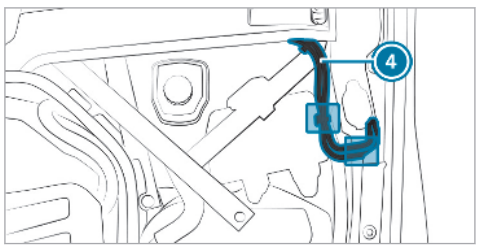
- Always switch off the windscreen wipers and ignition before opening the engine bonnet.



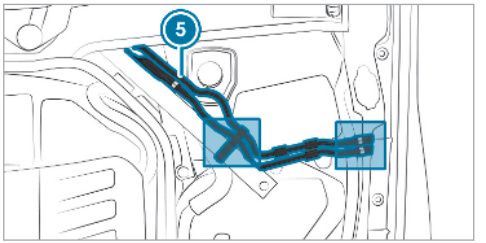
- Release the rotary catches on cover (1) and pull the cover up and out.
- Remove any existing moisture from the fuse box using a dry cloth.



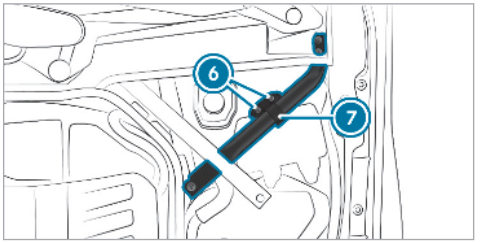
- Depending on the vehicle equipment, there may be an electrical component (2) on the fuse box lid. If present, unscrew screw (3) and put the component to the side without disconnecting the electrical connection.



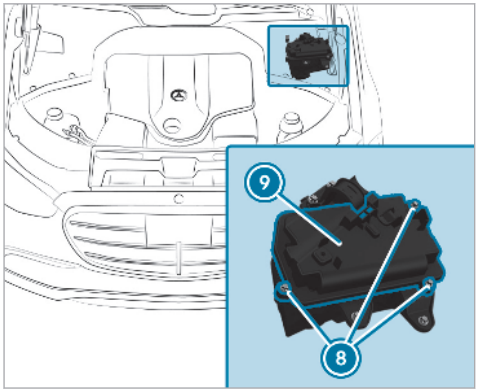
- If present, release hoses (4) from the retaining clips on the fuse box and vehicle body.



- If present, release hoses (5) from the retaining clips in the engine compartment and vehicle body.



- Unscrew screws (6) and fold out bar (7).



- Unscrew screws (8) and remove fuse box lid (9) to the side.

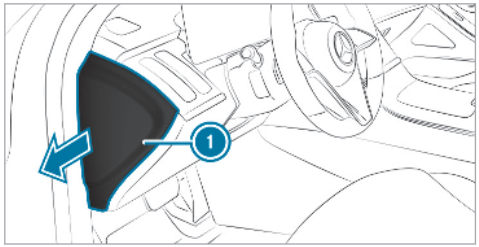
Closing

- Check whether the seal is positioned correctly in lid (9).
- Place lid (9) on the fuse box and tighten screws (8).
- Fold back bar (7) and tighten screws (6).
- If present, engage hoses (5) in the retaining clips in the engine compartment and vehicle body.
- If present, engage hoses (4) in the retaining clips on the fuse box and vehicle body.
- If present, insert electrical component (2) into the holder on the fuse box lid and tighten screws (3).
- Insert cover (1) and engage the rotary catches.

Opening and closing the fuse box in the cockpit

Requirements:

- Observe the notes on electrical fuses (→ page 486).

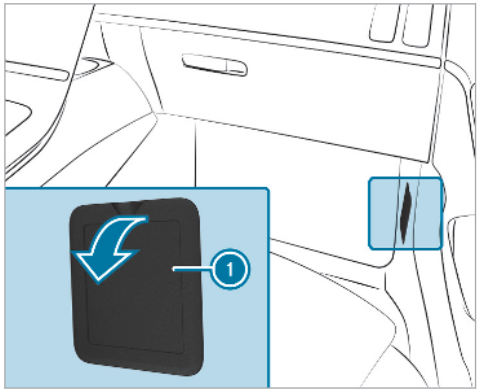


- Open cover (1) in the direction of the arrow and remove it.

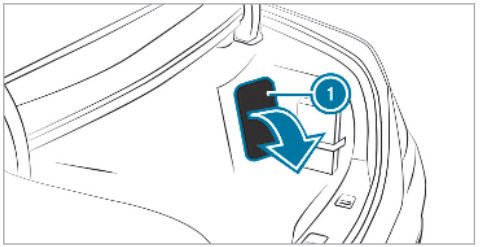
Opening and closing the fuse box in the front passenger footwell

Requirements:

- Observe the notes on electrical fuses (→ page 486).



▶ Open cover (1) in the direction of the arrow and remove it.



▶ Fold cover (1) down in the direction of the arrow.

Opening and closing the fuse box in the boot

Requirements:

- Observe the notes on electrical fuses (→ page 486).

Notes on noise or unusual handling characteristics

Make sure there are no vibrations, noises or unusual handling characteristics when the vehicle is in motion. This may indicate that the wheels or tyres are damaged. Hidden tyre damage could also be causing the unusual handling characteristics.

If you suspect that a tyre is defective, reduce your speed immediately and have the tyres and wheels checked at a qualified specialist workshop.

Notes on regularly inspecting wheels and tyres

WARNING Risk of injury through damaged tyres

Damaged tyres can cause tyre pressure loss.

- Check the tyres regularly for signs of damage and replace any damaged tyres immediately.

WARNING Risk of aquaplaning due to insufficient tyre tread

Insufficient tyre tread will result in reduced tyre grip.

The risk of aquaplaning is increased on wet roads, especially when the speed of the vehicle is not adapted to suit the conditions.

- Thus, you should regularly check the tread depth and the condition of the tyre contact surface across the entire width of all tyres.

Minimum tread depth for:

- Summer tyres: 3 mm
- M+S tyres: 4 mm

- For safety reasons, replace the tyres before the legally-prescribed limit for the minimum tread depth is reached.

Carry out the following checks on all wheels regularly, at least once a month or as required, for example, prior to a long journey or driving off-road:

- Check the tyre pressure (→ page 492).
- Visually inspect wheels and tyres for damage.
- Check the valve caps.
- Visual check of the tyre tread depth and the tyre contact surface across the entire width.

  The minimum tread depth for summer tyres is 3 mm and for winter tyres 4 mm.

Notes on snow chains

WARNING Risk of accident due to incorrect snow chain fitting

If you have fitted snow chains to the front wheels, the snow chains may drag against the vehicle body or chassis components.

This could cause damage to the vehicle or the tyres.

- ▶ Never fit snow chains on the front wheels.
- ▶ Only fit snow chains on the rear wheels in pairs.

Observe the following notes when using snow chains:

- Snow chains are only permissible for certain wheel/tyre combinations. You can obtain information about this from a Mercedes-Benz Service Centre.
- For safety reasons, only use snow chains that have been specifically approved for your vehicle by Mercedes-Benz, or snow chains with the same quality standard.
- If snow chains are fitted, the maximum permissible speed is 50 km/h.
- **Vehicles with Active Parking Assist:** do not use Active Parking Assist when snow chains are fitted.
- **Vehicles with level control:** if snow chains are fitted, only drive at raised vehicle level .
- **Vehicles with rear axle steering:** if snow chains are fitted, only drive with snow chain mode active (→ page 492).

ⓘ You can permanently limit the maximum vehicle speed for driving with winter tyres (→ page 219).

ⓘ You can deactivate ESP® to pull away (→ page 207). This allows the wheels to spin, achieving an increased driving force.

Activating or deactivating snow chain mode

Multimedia system:

↴ ⌂ » ★ » Vehicle quick-access

▶ Activate or deactivate Snow chain mode.

When the function is active, the vehicle behaves as if snow chains are mounted. For example, the maximum steering movement of the rear wheels is limited.

Tyre pressure

Notes on tyre pressure

⚠ **WARNING** Risk of accident due to insufficient or excessive tyre pressure

Underinflated or overinflated tyres pose the following risks:

- The tyres may burst, especially as the load and vehicle speed increase.
- The tyres may wear excessively and/or unevenly, which may greatly impair tyre traction.
- The driving characteristics, as well as steering and braking, may be greatly impaired.

▶ Comply with the recommended tyre pressure and check the tyre pressure of all tyres including the spare wheel regularly:

- at least once a month
- when the load changes

- before embarking on a longer journey
- if operating conditions change, e.g. off-road driving

▶ Adjust the tyre pressure as necessary.

Tyre pressure which is too high or too low can:

- Shorten the service life of the tyres.
- Cause increased tyre damage.
- Adversely affect driving characteristics and thus driving safety, e.g. due to aquaplaning.

⚠ **WARNING** Risk of accident from repeated tyre pressure drop

If the tyre pressure drops repeatedly, the wheel, valve or tyre may be damaged.

Insufficient tyre pressure can cause the tyres to burst.

▶ Inspect the tyre for signs of foreign objects.

▶ Check whether the wheel or valve has a leak.

▶ If you are unable to rectify the damage, contact a qualified specialist workshop.

Information on the recommended tyre pressure for the vehicle's factory-fitted tyres can be found on the tyre pressure table on the inside of the fuel filler flap (→ page 493).

Use a suitable pressure gauge to check the tyre pressure. The outer appearance of a tyre does not permit any reliable conclusion about the tyre pressure.

Only correct tyre pressures when the tyres are cold. Conditions for cold tyres:

- The vehicle has been parked with the tyres out of direct sunlight for at least three hours.
- The vehicle has travelled less than 1.6 km.

The vehicle's tyres heat up when driving. As the temperature of the tyres increases, so too does the tyre pressure.

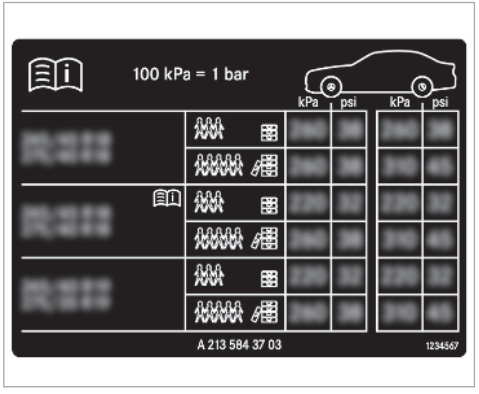
Vehicles with a tyre pressure monitoring system: you can also check the tyre pressure using the on-board computer.

Notes on trailer operation

Always inflate the rear axle tyres to the recommended tyre pressures on the tyre pressure table for increased load.

Tyre pressure table

The tyre pressure table is on the inside of the fuel filler flap.



If one or more tyre sizes precede a tyre pressure, the following tyre pressure information is only valid for those tyre sizes and their respective load condition.

If the preceding tyre sizes are complemented by the symbol, the tyre pressure information following shows alternative tyre pressures. Fuel consumption may then increase slightly.

The load conditions "partially laden" and "fully laden" are defined in the table for different numbers of passengers and amounts of luggage. The actual number of seats may differ from this.

Tyre pressure monitoring system

Function of the tyre pressure monitoring system

The tyre pressure and the tyre temperature appear in the multifunction display (→ page 494).

If there is a substantial pressure loss or if the tyre temperature is excessive, you will be warned in the following ways:

- via display messages (→ page 626)
- via the warning lamp in the instrument cluster (→ page 649)

The tyre pressure monitoring system is only an aid. It is the driver's responsibility to set the tyre pressure to the recommended cold tyre pressure suitable for the operating situation.

In most cases, the tyre pressure monitoring system will automatically update the new reference values after you have changed the tyre pressure. You can, however, also update the reference values by restarting the tyre pressure monitoring system manually (→ page 495).

System limits

The system may be impaired or may not function in the following situations:

- the tyre pressure has been set incorrectly
- there is a sudden pressure loss caused, for example, by a foreign object penetrating the tyre
- there is a malfunction caused by another radio signal source

Checking the tyre pressure with the tyre pressure monitoring system

Requirements:

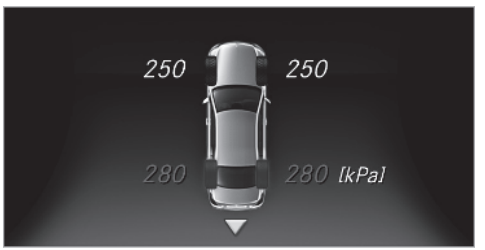
- The ignition is switched on.

On-board computer:

→ ⌂ ▸▸ Reifendruck

One of the following displays appears:

- Current tyre pressure of each wheel:



- Tyre pressures will be displayed after a few minutes of driving
- Tyre pressure monitor active: the teach-in process of the system is not yet complete.

The tyre pressures are already being monitored.

▶ Compare the tyre pressure with the recommended tyre pressure for the current operating condition (→ page 493). Observe the notes on tyre temperature (→ page 492).

ⓘ The values displayed in the multifunction display may deviate from those of the tyre pressure gauge as they refer to sea level. At high altitudes, the tyre pressure values indicated by a pressure gauge are higher than those shown by the on-board computer. In this case, do not reduce the tyre pressure.

Be sure to also pay attention to the following related topic:

- Notes on tyre pressure (→ page 492)

Restarting the tyre pressure monitoring system

Requirements:

- The recommended tyre pressure is correctly set for the respective operating status on each of the four wheels (→ page 492).

Restart the tyre pressure monitoring system in the following situations:

- The tyre pressure has changed.
- The wheels or tyres have been changed or newly fitted.

On-board computer:

↴ ⌂ ▸▸ Tyre pressure

▶ Swipe downwards on Touch Control on the left-hand side of the steering wheel.
The Use current tyre pressures as new reference values? message is shown in the multifunction display.

▶ Press OK to confirm the restart.
The Tyre pressure monitor restarted message is shown in the multifunction display.

Current warning messages are deleted and the yellow (!) warning lamp goes out.

After you have been driving for a few minutes, the system checks whether the current tyre pressures are within the specified range. The current tyre pressures are then accepted as reference values and monitored.

Be sure to also pay attention to the following related topic:

- Notes on tyre pressure (→ page 492)

Wheel change

Notes on selecting, fitting and replacing tyres

⚠ **WARNING** Risk of accident due to incorrect dimensions of wheels and tyres

If wheels and tyres of the wrong size are used, the wheel brakes or wheel suspension components may become damaged.

▶ Always replace wheels and tyres with those that fulfil the specifications of the original part.

When replacing wheels, make sure to fit the correct:

- Designation
- Type

When replacing tyres, make sure to fit the correct:

- Designation
- Manufacturer
- Type

WARNING Risk of injury through exceeding the specified tyre load-bearing capacity or the permissible speed rating

Exceeding the load-bearing capacity of the tyres can lead to tyre damage and could cause the tyres to explode.

- ▶ Therefore, only use tyre types and sizes approved for your vehicle model.
- ▶ Observe the tyre load-bearing capacity rating and speed rating required for your vehicle.

NOTE Vehicle and tyre damage through tyre types and sizes that have not been approved

For safety reasons, only use tyres, wheels and accessories which have been specially approved by Mercedes-Benz for your vehicle.

These tyres are specially adapted to the control systems, such as ABS, ESP® and 4MATIC, and marked as follows:

- MO = Mercedes-Benz Original
- MOE = Mercedes-Benz Original Extended (run-flat tyres only for certain wheels)
- MO1 = Mercedes-Benz Original (only certain AMG tyres)

Certain characteristics, such as handling, vehicle noise emissions, consumption, etc. may otherwise be adversely affected. Furthermore, other tyre sizes could result in the tyres rubbing against the body and axle components when loaded. This could result in damage to the tyre or the vehicle.

Only use tyres, wheels and accessories that have been checked and recommended by Mercedes-Benz.

NOTE Risk to driving safety from retreaded tyres

Retreaded tyres are neither tested nor recommended by Mercedes-Benz, since previous damage cannot always be detected on retreaded tyres.

For this reason driving safety cannot be guaranteed.

- ▶ Do not use used tyres if you have no information about their previous usage.

NOTE Possible damage to wheels or tyres when driving over obstacles

Large wheels have a lower tyre section width. The lower the tyre section width, the greater is the risk of damage to wheels or tyres when driving over obstacles.

▶ Avoid obstacles or drive particularly carefully.

! NOTE Possible wheel and tyre damage when parking on kerbs or in potholes

Parking on kerbs or in potholes may damage the wheels and tyres.

▶ If possible, park only on flat surfaces.
▶ Avoid kerbs and potholes when parking.

! NOTE Damage to electronic component parts from the use of tyre-fitting tools

Vehicles with a tyre pressure monitoring system: electronic component parts are located in the wheel. Tyre-fitting tools should not be applied in the area of the valve.

The tools could damage the electronic component parts.

▶ Have the tyres changed at a qualified specialist workshop only.

! NOTE Damage to summer tyres at low ambient temperatures

At low ambient temperatures, tears could form when driving with summer tyres, causing permanent damage to the tyre.

▶ At temperatures below 7 °C, use M+S tyres.

Accessory parts that are not approved for your vehicle by Mercedes-Benz or are not being used correctly can impair the operating safety.

Before purchasing and using non-approved accessories, visit a qualified specialist workshop and enquire about:

- Suitability
- Legal stipulations
- Factory recommendations

⚠ WARNING Risk of accident with high performance tyres

There is an increased risk of skidding and aquaplaning when using sport tyres on wet roads.

In addition, the tyre grip is greatly reduced at a low outside temperature and tyre running temperature.

▶ Activate ESP® and adapt your driving style accordingly.
▶ Use M+S tyres at outside temperatures below 10 °C.
▶ Only use the tyres for their intended purpose.

Observe the following when selecting, fitting and replacing tyres:

- Country-specific requirements for tyre approval that define a specific tyre type for your vehicle.
- Only use tyres and wheels of the same type (summer tyres, winter tyres, MOExtended tyres) and the same make.
- Only fit wheels of the same size on one axle (left and right).

  It is only permissible to fit a different wheel size in the event of a flat tyre in order to drive to the specialist workshop.

- Do not make any modifications to the brake system, the wheels or the tyres.

  The use of shims or brake dust shields is not permitted and may invalidate the vehicle's general operating permit.
- **Vehicles with a tyre pressure monitoring system:** all fitted wheels must be equipped with functioning sensors for the tyre pressure monitoring system.
- At temperatures below 7 °C, use winter tyres or all-season tyres marked M+S for all wheels.

  Winter tyres bearing the snowflake symbol in addition to the M+S marking provide the best possible grip in wintry road conditions.
- For M+S tyres, only use tyres with the same tread.
- Observe the maximum permissible speed for the M+S tyres fitted.

  If the tyre's maximum speed is below that of the vehicle, this must be indicated by an appropriate label in the driver's field of vision.
- Run in new tyres at moderate speeds for the first 100 km.
- Replace the tyres after six years at the latest, regardless of wear.
- **When replacing with tyres that do not feature run-flat characteristics:** vehicles with MOExtended tyres are not equipped with a TIREFIT kit at the factory. Equip the vehicle with a TIREFIT kit after replacing with tyres that do not feature run-flat characteristics, e.g. winter tyres.

ⓘ You can permanently limit the maximum vehicle speed for driving with winter tyres (→ page 219).

For more information on wheels and tyres, contact a qualified specialist workshop.

Be sure to also observe the following further related subjects:

- Notes on tyre pressure (→ page 492)
- Tyre pressure table (→ page 493)
- Notes on the emergency spare wheel (→ page 505)

Notes on interchanging wheels

⚠ WARNING Risk of injury through different wheel sizes

Interchanging the front and rear wheels if the wheels or tyres have different dimensions may severely impair the driving characteristics.

The disk brakes or wheel suspension components may also be damaged.

▶ Rotate front and rear wheels only if the wheels and tyres are of the same dimensions.

Interchanging the front and rear wheels if the wheels or tyres have different dimensions can render the general operating permit invalid.

The wear patterns on the front and rear wheels differ:

- Front wheels wear more on the shoulder of the tyre
- Rear wheels wear more in the centre of the tyre

Do not drive with tyres that have too little tread depth. This significantly reduces traction on wet roads (aquaplaning).

On vehicles with the same front and rear wheel size, you can interchange the wheels every 5,000 to 10,000 km, depending on the wear. Ensure the direction of rotation is maintained for the wheels.

Observe the instructions and safety notes on "Changing a wheel" when doing so (→ page 500).

Notes on storing wheels

When storing wheels, observe the following notes:

- After removing wheels, store them in a cool, dry and preferably dark place.
- Protect the tyres from contact with oil, grease or fuel.

Overview of the tyre-change tool kit

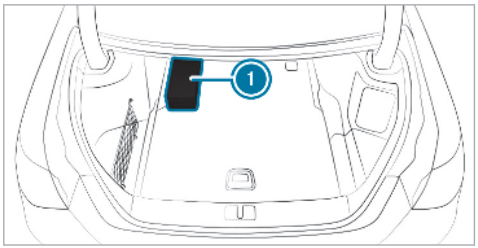
Apart from some country-specific variants, vehicles are not equipped with a tyre-change tool kit. For more information on which tyre-changing tools are required and approved for performing a wheel change on your vehicle, consult a qualified specialist workshop.

Required tyre-change tools may include, for example:

- Jack
- Chock
- Wheel wrench

ⓘ The jack weighs approximately 3.4 kg. The maximum load capacity of the jack can be found on the sticker affixed to the jack. The jack is maintenance-free. If there is a malfunction, please contact a qualified specialist workshop.

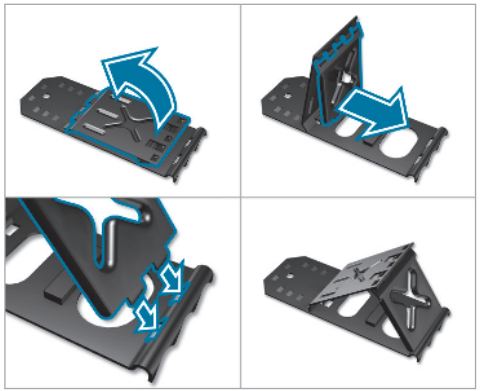
The tyre-change tool kit is located in tool bag ① on the boot floor.



Tool bag contains:

- Jack
- Gloves
- Wheel wrench
- Centring pin
- Folding chock
- Ratchet for jack

Setting up the folding chock



Preparing the vehicle for a wheel change

Requirements:

- The required tyre-change tool kit is available. If your vehicle is not equipped with the tyre-change tool kit, consult a qualified specialist workshop to find out about suitable tools.
- The vehicle is not on a slope.
- The vehicle is on solid, non-slippery and level ground.

- Apply the electric parking brake manually.
- Move the front wheels to the straight-ahead position.
- **Vehicles with automatic transmission:** shift into position P.
- **Vehicles with level control system:** set the normal vehicle level (→ page 234).
- Switch off the engine.
- Make sure that the engine cannot be started.
- Place chocks or other suitable items under the front and rear of the wheel that is diagonally opposite the wheel you wish to change.
- Remove the hub caps if necessary (→ page 500).
- Raise the vehicle (→ page 501).

Removing and fitting hub caps

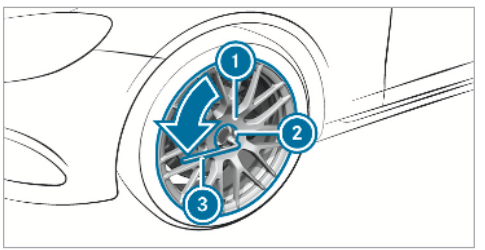
Requirement:

- The vehicle is prepared for a wheel change (→ page 500).

Plastic hub cap

- **To remove:** turn the centre cover of the hub cap anti-clockwise and remove the hub cap.
- **To fit:** make sure that the centre cover of the hub cap is turned anti-clockwise.
- Position the hub cap and turn the centre cover clockwise until the hub cap engages physically and audibly.

Aluminium hub cap



▶ **To remove:** position socket (2) on hub cap (1).

ⓘ The socket can be found in the tyre-change tool kit.

▶ Position wheel spanner (3) on socket (2).

▶ Using wheel spanner (3), turn hub cap (1) anti-clockwise and remove it.

▶ **To fit:** follow the instructions above in reverse order.

ⓘ **Specified tightening torque:** 25 Nm.

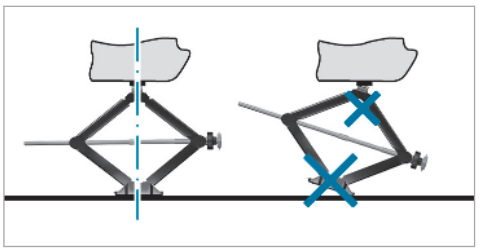
Raising the vehicle when changing a wheel

Requirements:

- There are no persons in the vehicle.
- The vehicle has been prepared for a wheel change (→ page 500).
- The hub caps have been removed (→ page 500).

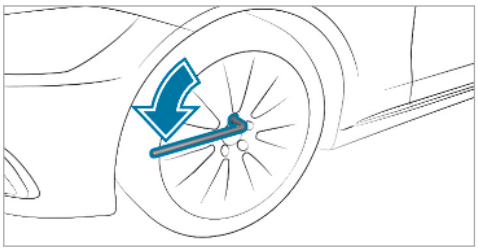
Important notes on using the jack:

- Use only a vehicle-specific jack that has been approved by Mercedes-Benz to raise the vehicle.
- The jack is only designed for raising and holding the vehicle for a short time while a wheel is being changed and not for maintenance work under the vehicle.
- The jack must be placed on a firm, flat and non-slip surface.
- The foot of the jack must be positioned vertically under the jack support point.

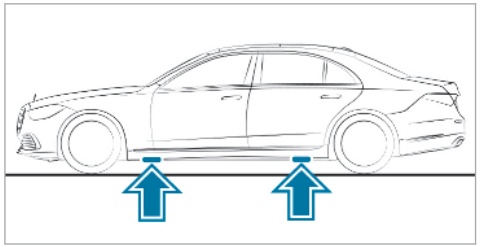


Rules of conduct when the vehicle is raised:

- Never place your hands or feet under the vehicle.
- Never lie under the vehicle.
- Do not start the engine and do not release the electric parking brake.
- Do not open or close any doors or the boot lid.



▶ Using the wheel wrench, loosen the wheel bolts on the wheel you wish to change by about one full turn. Do not unscrew the bolts completely.



Position of jack support points

WARNING Risk of injury from incorrect positioning of the jack

If you do not position the jack correctly at the appropriate jacking point of the vehicle, the jack could tip with the vehicle raised.

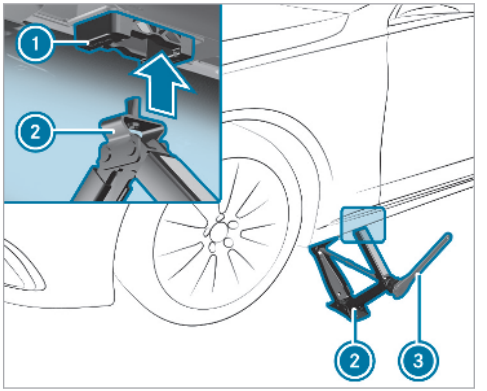
- Only position the jack at the appropriate jacking point of the vehicle. The base of the jack must be positioned vertically under the jacking point of the vehicle.

NOTE Vehicle damage from the jack

If you do not position the jack correctly at the appropriate jack support point of the vehicle, the jack could tip over with the vehicle raised.

- The jack is designed exclusively for jacking up the vehicle at the jack support points.

- Take the ratchet ring spanner out of the tyre-change tool kit and place it on the hexagon nut of the jack so that the letters "AUF" are visible.



- Position jack (2) at jack support point (1).
- Turn ratchet ring spanner (3) clockwise until jack (2) sits completely on jack support point (1) and the base of the jack lies evenly on the ground.
- Continue to turn ratchet ring spanner (3) until the tyre is raised a maximum of 3 cm off the ground.
- Loosen and remove the wheel (→ page 503).

Removing a wheel

Requirements:

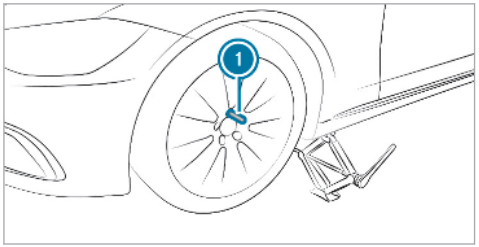
- The vehicle is raised (→ page 501).

When changing a wheel, avoid applying any force to the brake discs, since this could impair the level of comfort when braking.

! NOTE Damage to threading from dirt on wheel bolts

- Do not place wheel bolts in sand or on a dirty surface.

- Unscrew the uppermost wheel bolt completely.



- Screw centring pin (1) into the thread instead of the wheel bolt.
- Unscrew the remaining wheel bolts completely.
- Remove the wheel.
- Fit the new wheel (→ page 503).

Fitting a new wheel

⚠ WARNING Risk of accident from losing a wheel

Oiled or greased wheel bolts can cause the wheel bolts to come loose, as too can damaged wheel bolts or wheel hub threads.

- Never oil or grease the threads.
- In the event of damage to the threads, contact a qualified specialist workshop immediately.
- Have the damaged wheel bolts or damaged hub threads replaced.
- Do not continue driving.

- Observe the information on the choice of tyres (→ page 495).

For tyres with a specified direction of rotation, an arrow on the side wall of the tyre indicates the correct direction of rotation. Observe the direction of rotation when fitting.

- Slide the wheel to be mounted onto the centring pin and push it on.

⚠ WARNING Risk of injury from tightening wheel bolts and nuts

If you tighten the wheel bolts or wheel nuts when the vehicle is raised, the jack could tip.

- Only tighten wheel bolts or wheel nuts when the vehicle is on the ground.

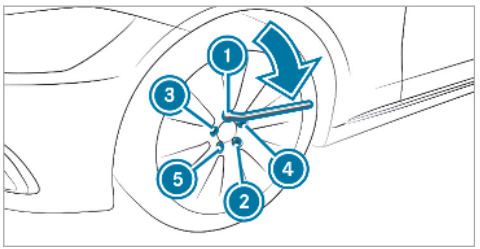
- Be sure to observe the instructions and safety notes on "Changing a wheel" (→ page 495).
- For safety reasons, only use wheel bolts which have been approved by Mercedes-Benz and for the wheel in question.
- Tighten the wheel bolts evenly in a diagonal pattern in the order indicated until they are finger-tight.
- Unscrew and remove the centring pin.
- Tighten the last wheel bolt until it is finger-tight.
- Lower the vehicle (→ page 504).

Lowering the vehicle after a wheel change

Requirements:

- The new wheel has been fitted (→ page 503).

- **To lower the vehicle:** place the ratchet onto the hexagon nut of the jack so that the letters "AB" are visible and turn the ratchet of the jack to the left.



- Tighten the wheel bolts evenly in a diagonal pattern in the order indicated ① to ⑤ with a maximum of 80 Nm.
- Tighten the wheel bolts evenly in a diagonal pattern in the order indicated ① to ⑤ the specified tightening torque of 150 Nm.

⚠ WARNING Risk of injury through incorrect tightening torque

The wheels could come loose if the wheel bolts or wheel nuts are not tightened to the prescribed tightening torque.

- Ensure that the wheel bolts or nuts are tightened to the prescribed tightening torque.
- If you are not sure, do not move the vehicle. Consult a qualified specialist workshop and have the tightening torque checked immediately.

- Check the tyre pressure of the newly fitted wheel and adjust it if necessary.
- **Vehicles with a tyre pressure monitoring system:** restart the tyre pressure monitoring system (→ page 495).
  Exception: the new wheel is an emergency spare wheel.

Emergency spare wheel

Notes on the emergency spare wheel

⚠ **WARNING** Risk of accident caused by incorrect wheel and tyre dimensions

The emergency spare wheel or spare wheel can significantly impair driving characteristics of the vehicle.

To prevent hazardous situations:

- Drive carefully.
- Never fit more than one emergency spare wheel or spare wheel that differs in size.
- Only use an emergency spare wheel or spare wheel briefly.
- Do not deactivate ESP®.
- Have the emergency spare wheel or spare wheel of a different size replaced at the nearest qualified specialist workshop. The new wheel must have the correct dimensions.

Check the tyre pressure of the emergency spare wheel fitted. Correct the pressure as necessary.

The maximum permissible speed with an emergency spare wheel fitted is 80 km/h.

Do not fit the emergency spare wheel with snow chains.

Replace the emergency spare wheel after six years at the latest, regardless of wear.

ⓘ **Vehicles with a tyre pressure monitoring system:** if an emergency spare wheel is fitted the tyre pressure monitoring system cannot function reliably. For a few minutes after an emergency spare wheel is fitted, the system may still display the tyre pressure of the removed wheel. Only restart the system again when the emergency spare wheel has been replaced with a new wheel.

Be sure to also observe the following further related subjects:

- Notes on tyre pressure (→ page 492)
- Tyre pressure table (→ page 493)
- Notes on fitting tyres (→ page 495)

Notes on technical data

The technical data was determined in accordance with EU Directives. The data stated only applies to vehicles with standard equipment. You can obtain further information from a Mercedes-Benz Service Centre.

Only for certain countries: you can find vehicle-specific vehicle data in the COC documents (CERTIFICATE OF CONFORMITY). These documents are delivered with your vehicle.

On-board electronics

Notes on tampering with the engine electronics

NOTE Premature wear through improper maintenance

Improper maintenance may cause vehicle components to wear more quickly and the vehicle's operating permit may be invalidated.

- Always have work on the engine electronics and related components carried out at a qualified specialist workshop.

NOTE Increased wear and tear or damage caused by measures undertaken to increase performance

Engine management measures undertaken to increase performance can lead to increased wear and tear or damage to the drive system.

- Do not undertake engine management measures to increase performance.

Two-way radios

Notes on fitting two-way radios

WARNING Risk of accident due to improper work on two-way radios

The electromagnetic radiation from two-way radios can interfere with the on-board electronics if RF transmitters are manipulated or retrofitted incorrectly.

This could jeopardise the operating safety of the vehicle.

- You should have all work on electrical and electronic components carried out at a qualified specialist workshop.

WARNING Risk of accident from incorrect operation of two-way radios

If you operate two-way radios incorrectly in the vehicle, the electromagnetic radiation could interfere with the on-board electronics, e.g.:

- if the two-way radio is not connected to an exterior aerial
- if the exterior aerial is not correctly mounted or is not of low reflection

This could jeopardise the operating safety of the vehicle.

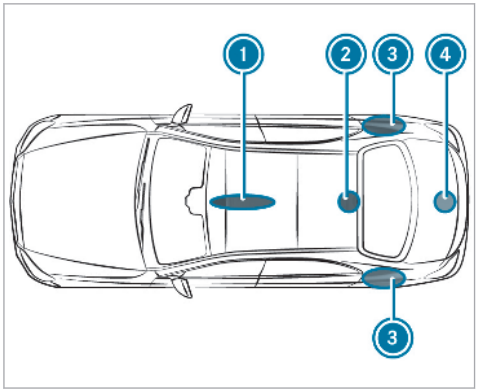
- Have the low-reflection exterior aerial fitted at a qualified specialist workshop.

- When operating two-way radios in the vehicle, always connect them to the low-reflection exterior aerial.

! NOTE Invalidation of the operating permit due to failure to comply with the instructions for installation and use

The operating permit may be invalidated if the instructions for installation and use of two-way radios are not observed.

- Only use approved frequency bands.
- Observe the maximum permissible output power in these frequency bands.
- Only use approved aerial positions.



1. Front roof area
2. Rear roof area
3. Rear wings
4. Boot lid

On vehicles with a panoramic sliding sunroof, fitting an aerial to the front or rear roof area is not permitted.

On the rear wings, it is recommended that you fit the aerial on the side of the vehicle closest to the centre of the road.

Use Technical Specification ISO/TS 21609 (Road Vehicles – "EMCs for installation of aftermarket radio frequency transmitting equipment") when retrofitting two-way radios. Comply with the legal requirements for detachable parts.

If your vehicle has fittings for two-way radio equipment, use the power supply and aerial connectors provided in the pre-installation. Observe the manufacturer's supplements when fitting.

Two-way radio transmission output

The maximum transmission output (PEAK) at the base of the aerial must not exceed the values in the following table:

Frequency band and maximum transmission output

Frequency band	Maximum transmission output
Short wave 3 - 54 MHz	100 W
4 m frequency band 74 - 78 MHz	30 W
2 m frequency band 144 - 174 MHz	50 W
Trunked radio system/Tetra 380 - 460 MHz	10 W
70 cm frequency band 400 - 460 MHz	35 W
Two-way radio (2G/3G/4G)	10 W

The following can be used in the vehicle without restrictions:

- RF transmitters with a maximum transmission output of up to 100 mW
- RF transmitters with transmitter frequencies in the 380 - 410 MHz frequency band and a maximum transmission output of up to 2 W (trunked radio system/Tetra)
- mobile phones (2G/3G/4G)

There are no restrictions when positioning the aerial on the outside of the vehicle for some wavebands.

This applies to the following wavebands:

- Trunked radio system/Tetra
- 70 cm frequency band
- 2G/3G/4G

Radio equipment approvals for the vehicle components

Overview of manufacturers

Manufacturer's abbreviated designation	Manufacturer information
ADC	ADC Automotive Distance Control Systems GmbH, Peter-Dornier-Strasse 10, 88131 Lindau, Germany
Gentex	Gentex Corporation, 600 North Centennial Street, Zeeland MI 49464, USA
HELLA	HELLA KGaA Hueck & Co., Rixbecker Straße 75, 59552 Lippstadt, Germany

Manufacturer's abbreviated designation	Manufacturer information
Hirschmann	Hirschmann Car Communication GmbH, Stuttgarter Str. 45-51, 72654 Neckartenzlingen, Germany
Huf Baolong	Huf Baolong Electronics Bretten GmbH, Gewerbestrasse 40, 75015 Bretten, Germany
HUF	HUF Hülsbeck & Fürst GmbH & Co. KG, Steeger Straße 17, 42551 Velbert, Germany
KATHREIN	KATHREIN Automotive GmbH & Co. KG, Römerring 1, 31137 Hildesheim, Germany

Manufacturer's abbreviated designation	Manufacturer information
LEOPOLD KOSTAL	LEOPOLD KOSTAL GmbH & Co. KG, Hauert 11, 44227 Dortmund, Germany
MARQUARDT	MARQUARDT GmbH, Schloßstraße 16, 78604 Rietheim-Weilheim, Germany
Meta System	Meta System S.P.A., Via T. Galimbreti 5, 42124 Reggio Emilia, Italy

Manufacturer's abbreviated designation	Manufacturer information
Bosch	Robert Bosch GmbH, Daimlerstrasse 6, 71229 Leonberg, Germany
Schrader	Schrader Electronics Ltd., 11 Technology Park, Belfast Road, Antrim BT41 1QS, Northern Ireland, United Kingdom

Argentina

Manufacturer	Model designation	Radio equipment approval number
Bosch	MRR1Rear (radar sensor)	C-21798
Bosch	MRRe14FCR (radar sensor)	C-20030
ADC	ARS4-A (radar sensor)	C-18005
ADC	ARS4-B (radar sensor)	C-17908
Huf Baolong	TSSRE4A (tyre pressure monitoring sensor)	H-20027
Schrader	AG5SP4 (tyre pressure monitoring sensor)	H-4788
Schrader	GG4T (tyre pressure monitoring sensor)	H-20495
Schrader	DG6W2D4 (tyre pressure monitoring sensor)	H-20959
MARQUARDT	DC12A (locking system)	H-17689
MARQUARDT	DC12B (locking system)	H-21034
MARQUARDT	DC12K (locking system)	H-21035
MARQUARDT	MS2 (locking system)	H-17598
MARQUARDT	MK1 (locking system)	H-17213
MARQUARDT	MK2 (locking system)	H-17212
MARQUARDT	3350.38 (locking system)	H-23166
HELLA	DM4 (locking system)	H-17845

Manufacturer	Model designation	Radio equipment approval number
HELLA	MARSKEYLESS (locking system)	H-17929
HUF	HUF14632 (locking system)	H-15541
HUF	HUF4761 (locking system)	H-11545
LEOPOLD KOSTAL	KK1 (locking system)	H-16874
Hirschmann	920287A (locking system)	H-15694

Manufacturer	Model designation	Radio equipment approval number
Hirschmann	920287B (locking system)	H-15695
KATHREIN	RKE213E1 (locking system)	H-15475

Australia

Manufacturer	Model designation	Radio equipment approval number
Huf Baolong	TSSRE4A (tyre pressure monitoring sensor)	
Huf Baolong	TSSSG4G6 (tyre pressure monitoring sensor)	
Huf Baolong	TSSSG4G6b (tyre pressure monitoring sensor)	

Manufacturer	Model designation	Radio equipment approval number
Schrader	AG5SP4 (tyre pressure monitoring sensor)	
Schrader	GG4T (tyre pressure monitoring sensor)	
Schrader	DG6W2D4 (tyre pressure monitoring sensor)	

Botswana

Manufacturer	Model designation	Radio equipment approval number
Bosch	MRR1Rear (radar sensor)	BOCRA/TA/2017/3788
ADC	ARS4-A (radar sensor)	BOCRA/TA/2018/2026
ADC	ARS4-B (radar sensor)	BOCRA/TA/2019/4582
Huf Baolong	TSSRE4A (tyre pressure monitoring sensor)	No. 20233
Schrader	AG5SP4 (tyre pressure monitoring sensor)	No. 1967
MARQUARDT	DC12A (locking system)	BOCRA/TA/2019/4389
MARQUARDT	DC12B (locking system)	BOCRA/TA/2019/4388
MARQUARDT	DC12K (locking system)	BOCRA/TA/2019/4390

Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	MS2 (locking system)	BOCRA/TA/2019/4261
MARQUARDT	MK1 (locking system)	BOCRA/TA/2019/4359
MARQUARDT	MK2 (locking system)	BOCRA/TA/2019/4360
HUF	HUF4761 (locking system)	BOCRA/TA/2019/4664
LEOPOLD KOSTAL	KK1 (locking system)	BOCRA/TA/2019/4593
Hirschmann	920287A (locking system)	BOCRA/TA/2019/4724
Hirschmann	920287B (locking system)	BOCRA/TA/2019/4723
KATHREIN	RKE213E1 (locking system)	BOCRA/TA/2019/4387

Brunei Darussalam

Manufacturer	Model designation	Radio equipment approval number
Bosch	LRR3 (radar sensor)	DRQ-DMAJU-02-2011-111083-LPD-31820
Bosch	MRR1Rear (radar sensor)	DRQ-DMAJU-02-2011-11108 3-LPD-31504

Manufacturer	Model designation	Radio equipment approval number
Bosch	MRRe14FCR (radar sensor)	DTA-000793
Huf Baolong	TSSRE4A (tyre pressure monitoring sensor)	DTA No. 000310
Huf Baolong	TSSSG4G6 (Steuergerät) (control unit) (tyre pressure monitoring sensor)	DTA No. 000311
Huf Baolong	TSSSG4G6b (Steuergerät) (control unit) (tyre pressure monitoring sensor)	DTA No. 003757

Manufacturer	Model designation	Radio equipment approval number
Schrader	AG5SP4 (tyre pressure monitoring sensor)	DRQ-DQAF AUTO-05-2003-1089 4-LPD-29559 DRQDJATI-07-2000-8916LPD-29665
Schrader	DG6W2D4 (tyre pressure monitoring sensor)	DTA-001514

Manufacturer	Model designation	Radio equipment approval number
Schrader	MFR (tyre pressure monitoring sensor)	DTA No. 003893
MARQUARDT	DC12A (locking system)	DRQ-DJATI-07-2000-8916-LPD-38937
MARQUARDT	DC12B (locking system)	DRQ-DJATI-07-2000-10900 0

Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	DC12K (locking system)	DRQ-DJATI-07-2000-109 00 0
MARQUARDT	MS2 (locking system)	DRQ-DJATI-07-2000-8916-LPD-388 90

Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	MK1 (locking system)	DRQ-DJATI-07-2000-8916-LPD-335 67
MARQUARDT	MK2 (locking system)	DRQ-DJATI-07-2000-8916-LPD-335 68

Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	3350.38 (locking system)	DRQ-DJATI-07-2000-109 00 0 DTA-003 662
HELLA	DM4 (locking system)	DRQ-DJATI-07-2000-109 00 0 DTA-000 351

Manufacturer	Model designation	Radio equipment approval number
HELLA	MARSKEYLESS (locking system)	DRQ-DMAJU-02-2011-11108 3-LPD-39004
HUF	HUF14632 (locking system)	DRQ-DJATI-07-2000-8916-LPD-30012

Manufacturer	Model designation	Radio equipment approval number
HUF	HUF4761 (locking system)	DRQ-DJATI-07-2000-10900 0 DTA-000615
LEOPOLD KOSTAL	KK1 (locking system)	DRQ-DMAJU-02-2011-11108 3-LPD-30419

Manufacturer	Model designation	Radio equipment approval number
Hirschmann	920287A (locking system)	DRQ-DJATI-07-2000-10900 0 DTA-001661

Manufacturer	Model designation	Radio equipment approval number
Hirschmann	920287B (locking system)	DRQDMAJU-02-2011-11108 3 DTA-000794
KATHREIN	RKE213E1 (locking system)	DRQDJATI-07-2000-8916-LPD-30360

Ghana

Manufacturer	Model designation	Radio equipment approval number
ADC	ARS4-B (radar sensor)	1R3-1M-7E1-160
MARQUARDT	DC12A (locking system)	ZRO-M8-7E3-X50
MARQUARDT	DC12B (locking system)	ZRO-M8-7E3-X51
MARQUARDT	DC12K (locking system)	ZRO-M8-7E3-X52
MARQUARDT	MS2 (locking system)	BR3-1M-GE-129
MARQUARDT	MK1 (locking system)	ZRO-M8-7E3-X4A
MARQUARDT	MK2 (locking system)	ZRO-M8-7E3-X4C
MARQUARDT	3350.38 (locking system)	ZRO-M8-7E3-X3C
HELLA	DM4 (locking system)	BR3-1M-GE2-157
HELLA	MARSKEYLESS (locking system)	BR3-1M-GE2-16A
HUF	HUF4761 (locking system)	EX6-6M-GE2-16C

Manufacturer	Model designation	Radio equipment approval number
LEOPOLD KOSTAL	KK1 (locking system)	ZRO-M8-7E3-X49
Hirschmann	920287A (locking system)	ZRO-M8-7E3-X45
Hirschmann	920287B (locking system)	ZRO-M8-7E3-X47
KATHREIN	RKE213E1 (locking system)	ZRO-M8-7E3-X53

Indonesia

Manufacturer	Model designation	Radio equipment approval number
Bosch	LRR3 (radar sensor)	40556/SDPPI/2018
Bosch	MRR1Rear (radar sensor)	34538/SDPPI/2017
Bosch	MRRe14FCR radar sensor	53078/SDPPI/2017 PLG3612
ADC	ARS4-A (radar sensor)	36010/SDPPI/2017 2130
ADC	ARS4-B (radar sensor)	38132/SDPPI/2017 2130
Huf Baolong	TSSRE4A (tyre pressure monitoring sensor)	52166/SDPPI/2017 3533
Schrader	AG5SP4-D (tyre pressure monitoring sensor)	38892/SDPPI/2018 3612
Schrader	GG4T (tyre pressure monitoring sensor)	54083/SDPPI/2017 PLG3612

Manufacturer	Model designation	Radio equipment approval number
Schrader	DG6W2D4 (tyre pressure monitoring sensor)	57058/SDPPI/2018 PLG3612
Schrader	MC34MA4 (tyre pressure monitoring sensor)	25626/SDPPI/2015 PLG3612
MARQUARDT	DC12A (locking system)	50064/SDPPI/2017 2208
MARQUARDT	DC12B (locking system)	59840/SDPPI/2019 7163
MARQUARDT	DC12K (locking system)	59838/SDPPI/2019 7163
MARQUARDT	MS2 (locking system)	50154/SDPPI/2017 2208
MARQUARDT	MK1 (locking system)	40283/SDPPI/2015 2208
MARQUARDT	MK2 (locking system)	40282/SDPPI/2015 2208
HELLA	DM4 (locking system)	52221/SDPPI/2017 6051
HELLA	MARSKEYLESS (locking system)	51484/SDPPI/2017 2181
HUF	HUF14632 (locking system)	41618/SDPPI/2018 3533
HUF	HUF4761 (locking system)	26742/SDPPI/2015

Manufacturer	Model designation	Radio equipment approval number
LEOPOLD KOSTAL	KK1 (locking system)	41121/SDPPI/2018 5125
Hirschmann	920287A (locking system)	29510/SDPPI/2016 3159
Hirschmann	920287B (locking system)	28238/SDPPI/2016 3159
KATHREIN	RKE213E1 (locking system)	41771/SDPPI/2018 5205

Jordan

Manufacturer	Model designation	Radio equipment approval number
Bosch	LRR3 (radar sensor)	TRC/LPD/2009/15
Bosch	MRR1Rear (radar sensor)	TRC/LPD/2014/73
Bosch	MRRe14FCR radar sensor	TRC/LPD/2017/254
ADC	ARS4-A (radar sensor)	TRC/LPD/2014/126
ADC	ARS4-B (radar sensor)	TRC/LPD/2014/248
Huf Baolong	TSSRE4A (tyre pressure monitoring sensor)	TRC/LPD/2017/421
Huf Baolong	TSSSG4G6 (control unit) (tyre pressure monitoring sensor)	TRC/LPD/2017/422
Huf Baolong	TSSSG4G6b (control unit) (tyre pressure monitoring sensor)	TRC/LPD/2017/175

Manufacturer	Model designation	Radio equipment approval number
Schrader	AG5SP4-D (tyre pressure monitoring sensor)	TRC/LPD/2019/21
Schrader	MFR (tyre pressure monitoring sensor)	TRC/LPD/2019/184
Schrader	GG4T (tyre pressure monitoring sensor)	TRC/LPD/2017/456
Schrader	DG6W2D4 (tyre pressure monitoring sensor)	TRC/LPD/2018/139
Schrader	MC34MA4 (tyre pressure monitoring sensor)	TRC/LPD/2011/158
MARQUARDT	DC12A (locking system)	TRC/LPD/2017/175
MARQUARDT	DC12B (locking system)	TRC/LPD/2011/160
MARQUARDT	DC12K (locking system)	TRC/LPD/2011/161
MARQUARDT	MS2 (locking system)	TRC/LPD/2017/116
MARQUARDT	MK1 (locking system)	TRC/LPD/2015/166
MARQUARDT	MK2 (locking system)	TRC/LPD/2015/167
MARQUARDT	3350.38 (locking system)	TRC/LPD/2019/106

Manufacturer	Model designation	Radio equipment approval number
HELLA	DM4 (locking system)	TRC/LPD/2017/399
HELLA	MARSKEYLESS (locking system)	TRC/LPD/2017/183
HUF	HUF14632 (locking system)	TRC/LPD/2015/179
HUF	HUF4761 (locking system)	TRC/LPD/2012/144
LEOPOLD KOSTAL	KK1 (locking system)	TRC/LPD/2015/102
Hirschmann	920287A (locking system)	TRC/LPD/2011/149
Hirschmann	920287B (locking system)	TRC/LPD/2012/53
KATHREIN	RKE213E1 (locking system)	TRC/LPD/2015/236
Gentex	EUROII (locking system)	TRC/LPD/2014/258
Gentex	MUAHL 5 (locking system)	TRC/LPD/2015/299
KATHREIN	RKE213E1 (antenna amplifier)	TRC/LPD/2015/236

Malaysia

Manufacturer	Model designation	Radio equipment approval number
Bosch	LRR3 (radar sensors)	RALM/35A/0716/S(16-2324)
Bosch	MRR1Rear (radar sensors)	RALM/66A/0618/S(18-2468)
Bosch	MRRe14FCR (radar sensors)	RALM/45A/0517/S(17-1576)
Huf Baolong	TSSRE4A (tyre pressure monitoring sensors)	CIDF17000184
Huf Baolong	TSSSG4G6 (control unit) (tyre pressure monitoring sensors)	RAQP/57A/0817/S(17-2424)
Schrader	AG5SP4-D (tyre pressure monitoring sensors)	RCDD/03A/0615/S(19-2094)
Schrader	MFR (control unit) (tyre pressure monitoring sensors)	RAQP/62A/0419/S(19-1694)

Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	DC12A (locking systems)	RDDK/33A/0317/S(17-0669)
MARQUARDT	DC12B (locking systems)	RAUU/62A/0311/S(11-0263)

Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	DC12K (locking systems)	RAUU/62A/0311/S(11-0264)
MARQUARDT	MS2 (locking systems)	RDDK/31A/0217/S(17-0405)
MARQUARDT	MK1 (locking systems)	RAAU/14C/0615/S(15-1057)

Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	MK2 (locking systems)	RAAU/12C/0515/S(15-1059)
HELLA	DM4 (locking systems)	RDDK/41A/0717/S(17-2269)
HELLA	MARSKEYLESS (locking systems)	RAAU/51C/0417/S(17-1034)

Manufacturer	Model designation	Radio equipment approval number
HUF	HUF14632 (locking systems)	RAYN/25A/0715/S(15-2385)
HUF	HUF4761 (locking systems)	RAAU/16B/1112/S(12-2053)
LEOPOLD KOSTAL	KK1 (locking systems)	RAUU/27C/0815/S(15-2953)

Manufacturer	Model designation	Radio equipment approval number
Hirschmann	920287A (locking systems)	RAUU/63A/0311/S(11-0432)
Hirschmann	920287B (locking systems)	RAUU/22C/0615/S(15-1864)

Manufacturer	Model designation	Radio equipment approval number
KATHREIN	RKE213E1 (locking systems)	RAUU/28C/0915/S(15-2703)
Meta	ITS/TPS (interior protection)	RAVG/18Q/0212/S(11-2068)
Meta	MUW II (interior protection)	RAVG/17Q/0212/S(11-2067)

Morocco

Manufacturer	Model designation	Radio equipment approval number
Bosch	LRR3 (radar sensors)	MR 5371 ANRT 2010-02-02
Bosch	MRR1Rear (radar sensors)	MR 9186 ANRT 2014-04-22
Bosch	MRRe14FCR (radar sensors)	MR 13900 ANRT 2017-05-04
ADC	ARS4-A (radar sensors)	MR 9490 ANRT 2014-07-23
ADC	ARS4-B (radar sensors)	MR 9778 ANRT 2014-11-11
Huf Baolong(	TSSRE4A (tyre pressure sensor) (tyre pressure monitoring sensors)	MR 14320 ANRT 2017-07-07
Huf Baolong	TSSSG4G6 (control unit) (tyre pressure monitoring sensors)	MR 14319 ANRT 2017-07-07
Huf Baolong	TSSSG4G6b (control unit) (tyre pressure monitoring sensors)	MR 19561 ANRT 2019-04-26
Schrader	AG5SP4-D (tyre pressure sensor) (tyre pressure monitoring sensors)	MR 10216 ANRT 2015-03-18
Schrader	MFR (control unit) (tyre pressure monitoring sensors)	MR 19527 ANRT 2019-04-30
Schrader	GG4T (tyre pressure monitoring sensors)	MR 14777 ANRT 2017-09-20

Manufacturer	Model designation	Radio equipment approval number
Schrader	DG6W2D4 (tyre pressure monitoring sensors)	MR 16355 ANRT 2018-04-19
Schrader	MC34MA4 (tyre pressure monitoring sensors)	MR 6706 ANRT 2011-11-17
MARQUARDT	DC12A (locking systems)	MR 13429 ANTR 2017-03-03
MARQUARDT	DC12B (locking systems)	MR 6698 ANTR 2011-11-16
MARQUARDT	DC12K (locking systems)	MR 6699 ANTR 2011-11-16
MARQUARDT	MS2 (locking systems)	MR 13300 ANTR 2017-02-15
MARQUARDT	MK1 (locking systems)	MR 10645 ANTR 2015-07-21
MARQUARDT	MK2 (locking systems)	MR 10987 ANTR 2015-10-22
MARQUARDT	3350.38 (locking systems)	MR 18817 ANTR 2019-02-12
HELLA	DM4 (locking systems)	MR 14426 ANTR 2017-07-28
HELLA	MARSKEY-LESS (locking systems)	MR 13681 ANTR 2017-04-04
HUF	HUF14632 (locking systems)	MR 10506 ANTR 2015-06-22
HUF	HUF4761 (locking systems)	MR 7829 ANTR 2013-02-14
LEPOLD KOSTAL	KK1 (locking systems)	MR 10697 ANTR 2015-08-05
Hirschmann	920287A (locking systems)	MR 6700 ANTR 2011-11-16

Manufacturer	Model designation	Radio equipment approval number
Hirschmann	920287B (locking systems)	MR 7260 ANTR 2012-06-13
KATHREIN	RKE213E1 (locking systems)	MR 10631 ANTR 2015-07-16

Mexico

Manufacturer	Model designation	Radio equipment approval number
Bosch	LRR3 (radar sensors)	IFETEL: RCPBOLR09-0828
Bosch	MRR1Rear (radar sensors)	IFETEL: RCPBOMR14-0922
Bosch	MRRe14FCR (radar sensors)	IFETEL: RCPBOMR17-0598
ADC	ARS4-A (radar sensors)	IFETEL: RCPCOAR14-1191
ADC	ARS4-B (radar sensors)	IFETEL: RLVCOAR15-0008
Huf Baolong	TSSRE4A (tyre pressure monitoring sensors)	IFETEL: RLVHUTS17-0806
Schrader	AG5SP4-D (tyre pressure monitoring sensors)	IFETEL: RCPSCAG15-0627

Manufacturer	Model designation	Radio equipment approval number
Schrader	MFR (tyre pressure monitoring sensors)	IFETEL: RLVSCMF15-0959
Schrader	GG4T (tyre pressure monitoring sensors)	IFETEL: RLVSCGG17-1665
Schrader	DG6W2D4 (tyre pressure monitoring sensors)	IFETEL: RLVSCDG18-04

Manufacturer	Model designation	Radio equipment approval number
Schrader	MC34MA4 (tyre pressure monitoring sensors)	IFETEL: RCPSCMR14-062
MARQUARDT	DC12A (locking systems)	IFETEL: IFT/223/UCS/DG-AUSE/0452/2018
MARQUARDT	DC12B (locking systems)	IFETEL: CFT/D03/USI/DGB/4653/2013

Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	DC12K (interior protection)	IFETEL: CFT/D03/USI/DGB/4653/2013
MARQUARDT	MS2 (locking systems)	IFETEL: IFT/223/UCS/DG-AUSE/0717/2018
MARQUARDT	MK1 (locking systems)	IFETEL: IFT/223/UCS/DG-AUSE/3130/2016

Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	MK2 (locking systems)	IFETEL: IFT/223/UCS/DG-AUSE/3043/2016
MARQUARDT	3350.38 (locking systems)	IFETEL: IFT/223/UCS/DG-AUSE/1589/2019
HELLA	DM4 (locking systems)	IFETEL: IFT/223/UCS/DG-AUSE/3937/2018
HELLA	MARSKEY-LESS (locking systems)	IFETEL: IFT/223/UCS/DG-AUSE/5487/2018
HUF	HUF14632 (locking systems)	IFETEL: IFT/223/UCS/DG-AUSE/2565/2016
HUF	HUF4761 (locking systems)	IFETEL: CFT/D03/USI/DGB/5888/2013
LEOPOLD KOSTAL	KK1 (locking systems)	IFETEL: IFT/223/UCS/DG-AUSE/3010/2018
Hirschmann	920287A (locking systems)	IFETEL: CFT/D03/USI/DGB/2401/2012
Hirschmann	920287B (locking systems)	IFETEL: CFT/D03/USI/DGB/4865/2013

Manufacturer	Model designation	Radio equipment approval number
KATHREIN	RKE213E1 (locking systems)	IFETEL: IFT/223/UCS/DG-AUSE/4856/2016
Gentex	EURO II (locking systems)	IFETEL: IFT/223/UCS/DG-AUSE/1456/2014
Gentex	MUAHL 5 (locking systems)	IFETEL: IFT/223/UCS/DG-AUSE/0035/2016

Manufacturer	Model designation	Radio equipment approval number
Meta	ITS/TPS (interior protection)	IFETEL: IFT/223/UCS/DG-AUSE/4871/2016
Meta	MUW II (interior protection)	IFETEL: IFT/223/UCS/DG-AUSE/5064/2016

Moldova

Manufacturer	Model designation	Radio equipment approval number
Bosch	LRR3 (radar sensors)	MD OC TIP 024 A6227-18
Bosch	MRR1Rear (radar sensors)	MD OC TIP 024 A5957-17
Bosch	MRRe14FCR (radar sensors)	MD OC TIP 024 A6004-18
MARQUARDT	DC12A (locking systems)	MD OC TIP 024 A5820-17

Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	DC12B (locking systems)	MD OC TIP 024 A6253-18
MARQUARDT	DC12K (locking systems)	MD OC TIP 024 A6252-18
MARQUARDT	MS2 (locking systems)	MD OC TIP 024 A6444-19
MARQUARDT	3350.38 (locking systems)	MD OC TIP 024 A6398-19

Manufacturer	Model designation	Radio equipment approval number
HELLA	DM4 (locking systems)	MD OC TIP 024 A5884-17
HELLA	MARSKEY-LESS (locking systems)	MD OC TIP 024 A5876-17
HUF	HUF4761 (locking systems)	MD OC TIP 024 A5433-16

Manufacturer	Model designation	Radio equipment approval number
Hirschmann	920287A (locking systems)	MD OC TIP 024 A5660-16
Hirschmann	920287B (locking systems)	MD OC TIP 024 A5485-16

Niger

Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	DC12A (locking systems)	010/ ARCEP/DG/ 19
MARQUARDT	DC12B (locking systems)	008/ ARCEP/DG/ 19
MARQUARDT	DC12K (locking systems)	009/ ARCEP/DG/ 19
MARQUARDT	MS2 (locking systems)	017/ ARCEP/DG/ 19
MARQUARDT	MK1 (locking systems)	034/ ARCEP/DG/ 19
MARQUARDT	MK2 (locking systems)	035/ ARCEP/DG/ 19
MARQUARDT	3350.38 (locking systems)	015/ ARCEP/DG/ 19
HELLA	DM4 (locking systems)	082/ ARCEP/DG/ 19
HELLA	MARSKEY-LESS (locking systems)	083/ ARCEP/DG/ 19
HUF	HUF4761 (locking systems)	053/ ARCEP/DG/ 19
LEOPOLD KOSTAL	KK1 (locking systems)	037/ ARCEP/DG/ 19
KATHREIN	RKE213E1 (locking systems)	029/ ARCEP/DG/ 19

Nigeria

Manufacturer	Model designation	Radio equipment approval number
Bosch	MRR1Rear (radar sensors)	NCC/TSNI/WN/TA/CERT/2089/2018
Bosch	MRRe14FCR (radar sensors)	NCC/TSNI/WN/TA/CERT/2042/2018
ADC	ARS4-A (radar sensors)	NCC/TSNI/WN/TA/CERT/AB00388/2015
ADC	ARS4-B (radar sensors)	NCC/TSNI/WN/TA/CERT/2062/2018
MARQUARDT	DC12A (locking systems)	NCC/TSNI/WN/TA/CERT/1714/2017
MARQUARDT	DC12B (locking systems)	NCC/TSNI/WN/TA/CERT/2627/2019
MARQUARDT	DC12K (locking systems)	NCC/TSNI/WN/TA/CERT/2626/2019
MARQUARDT	MS2 (locking systems)	NCC/TSNI/WN/TA/CERT/1667/2017
MARQUARDT	MK1 (locking systems)	NCC/TSNI/WN/TA/CERT/0739/2015
MARQUARDT	MK2 (locking systems)	NCC/TSNI/WN/TA/CERT/0740/2015
MARQUARDT	3350.38 (locking systems)	NCC/TSNI/WN/TA/CERT/2882/2019
HELLA	DM4 (locking systems)	NCC/TSNI/WN/TA/CERT/1830/2017

Manufacturer	Model designation	Radio equipment approval number
HELLA	MARSKEY-LESS (locking systems)	NCC/TSNI/WN/TA/CERT/1670/2017
HUF	HUF14632 (locking systems)	NCC/TSNI/WN/TA/CERT/0829/2015
HUF	HUF4761 (locking systems)	NCC/TSNI/WN/TA/CERT/2884/2019
LEOPOLD KOSTAL	KK1 (locking systems)	NCC/TSNI/WN/TA/CERT/0823/2015
KATHREIN	RKE213E1 (locking systems)	NCC/TSNI/WN/TA/CERT/0865/2015

Pakistan

Manufacturer	Model designation	Radio equipment approval number
ADC	ARS4-A (radar sensors)	9.9014/2019
ADC	ARS4-B (radar sensors)	9.1048/2018
MARQUARDT	DC12A (locking systems)	9.131/2017
MARQUARDT	DC12B (locking systems)	9.829/2013
MARQUARDT	DC12K (locking systems)	9.830/2013

Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	MS2 (locking systems)	9.133/2017
MARQUARDT	MK1 (locking systems)	9.486/2015
MARQUARDT	MK2 (locking systems)	9.497/2015
HELLA	DM4 (locking systems)	9.409/2017
HELLA	MARSKEY-LESS (locking systems)	9.213/2017

Manufacturer	Model designation	Radio equipment approval number
HUF	HUF14632 (locking systems)	9.598/2015
HUF	HUF4761 (locking systems)	9.790/2013
LEOPOLD KOSTAL	KK1 (locking systems)	9.118/2016
Hirschmann	920287A (locking systems)	9.845/2013

Manufacturer	Model designation	Radio equipment approval number
Hirschmann	920287B (locking systems)	9.846/2013
KATHREIN	RKE213E1 (locking systems)	9.142/2016

Paraguay

Manufacturer	Model designation	Radio equipment approval number
Bosch	MRRe14FCR (radar sensor)	2017-06-I-0000162
Bosch	MRR1Rear (radar sensor)	2019-05-I-000236
ADC	ARS4-A (radar sensor)	2019-05-I-0271
ADC	ARS4-B (radar sensor)	2019-07-I-0353
Huf Baolong	TSSRE4A (tyre pressure monitoring sensor)	2017-09-I-0000328
Schrader	AG5SP4-D (tyre pressure monitoring sensor)	2015-04-I-0000150
MARQUARDT	DC12A (locking system)	2017-07-I-0000199
MARQUARDT	DC12B (locking system)	2016-5-I-000144 y 2011-06-I-0067
MARQUARDT	DC12K (locking system)	2016-5-I-000143 y 2011-06-I-0068
MARQUARDT	MS2 (locking system)	2017-04-I-0000101

Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	MK1 (locking system)	2015-07-I-0000200
MARQUARDT	MK2 (locking system)	2015-07-I-0000201
MARQUARDT	3350.38 (locking system)	2019-04-I-000216
HELLA	DM4 (locking system)	2017-08-I_0000261

Manufacturer	Model designation	Radio equipment approval number
HELLA	MARSKEYLESS (locking system)	2017-05-I-0000136
HUF	HUF14632 (locking system)	2015-08-I-0000226
HUF	HUF4761 (locking system)	2017-12-I-0000409 y 2012-10-I-0178

Manufacturer	Model designation	Radio equipment approval number
LEOPOLD KOSTAL	KK1 (locking system)	2015-06-I-0000181
Hirschmann	920287A (locking system)	2016-5-I-000134 y 2011-06-I-0059

Manufacturer	Model designation	Radio equipment approval number
Hirschmann	920287B (locking system)	2017-04-I-0000119 y 2012-05-I-0096
KATHREIN	RKE213E1 (locking system)	2016-02-I-0000038

Philippines

Manufacturer	Model designation	Radio equipment approval number
Bosch	MRR1Rear (radar sensor)	ESD-1408917C
Bosch	MRRe14FCR (radar sensor)	ESD-1716172C
ADC	ARS4-A (radar sensor)	ESD-1409466C
ADC	ARS4-B (radar sensor)	ESD-1409834C

Manufacturer	Model designation	Radio equipment approval number
Huf Baolong	TSSRE4A (tyre pressure monitoring sensor)	ESD-1715393C
Schrader	AG5SP4-D (tyre pressure monitoring sensor)	ESD-1510376C
MARQUARDT	DC12A (locking system)	ESD-1714489C
MARQUARDT	DC12B (locking system)	ESD-1105216C

Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	DC12K (locking system)	ESD-1105215C
MARQUARDT	MS2 (locking system)	ESD-1715652C
MARQUARDT	MK1 (locking system)	ESD-1510644C
MARQUARDT	MK2 (locking system)	ESD-1510645C
MARQUARDT	3350.38 (locking system)	ESD-1919198C

Manufacturer	Model designation	Radio equipment approval number
HELLA	DM4 (locking system)	ESD-1715539C
HELLA	MARSKEY-LESS (locking system)	ESD-1714865C
HUF	HUF14632 (locking system)	ESD-1511236C
HUF	HUF4761 (locking system)	ESD-1206521C
LEOPOLD KOSTAL	KK1 (locking system)	ESD-1510698C

Manufacturer	Model designation	Radio equipment approval number
Hirschmann	920287A (locking system)	ESD-1105246C
Hirschmann	920287B (locking system)	ESD-1206044C
KATHREIN	RKE213E1 (locking system)	ESD-1511856C

Russia

Manufacturer	Model designation	Radio equipment approval number
Huf Baolong	TSSRE4A (tyre pressure monitoring sensor)	–
Huf Baolong	TSSSG4G6 (tyre pressure monitoring sensor)	–

Manufacturer	Model designation	Radio equipment approval number
Huf Baolong	TSSSG4G6b (tyre pressure monitoring sensor)	–
Schrader	AG5SP4-D (tyre pressure monitoring sensor)	–

Zambia

Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	DC12A (locking system)	ZMB/ZICTA/TA/2019/5/16
MARQUARDT	DC12B (locking system)	ZMB/ZICTA/TA/2019/5/17
MARQUARDT	DC12K (locking system)	ZMB/ZICTA/TA/2019/5/18
MARQUARDT	MS2 (locking system)	ZMB/ZICTA/TA/2018/9/30

Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	MK1 (locking system)	ZMB/ZICTA/TA/2019/3/20
MARQUARDT	MK2 (locking system)	ZMB/ZICTA/TA/2019/3/21
MARQUARDT	3350.38 (locking system)	ZMB/ZICTA/TA/2019/3/6
HELLA	DM4 (locking system)	ZMB/ZICTA/TA/2019/3/4

Manufacturer	Model designation	Radio equipment approval number
HELLA	MARSKEY-LESS (locking system)	ZMB/ZICTA/TA/2019/3/3
HUF	HUF4761 (locking system)	ZMB/ZICTA/TA/2018/12/18
LEOPOLD KOSTAL	KK1 (locking system)	ZMB/ZICTA/TA/2019/3/48
Hirschmann	920287A (locking system)	ZMB/ZICTA/TA/2019/7/12

Manufacturer	Model designation	Radio equipment approval number
Hirschmann	920287B (locking system)	ZMB/ZICTA/TA/2019/7/11
KATHREIN	RKE213E1 (locking system)	ZMB/ZICTA/TA/2019/3/11

Singapore

Manufacturer	Model designation	Radio equipment approval number
Bosch	LRR3 (radar sensor)	N0380-15
Bosch	MRR1Rear (radar sensor)	N0871-19
Bosch	MRRe14FCR (radar sensor)	N1699-17
ADC	ARS4-A (radar sensor)	DA103365
ADC	ARS4-B (radar sensor)	DA103365
HUF Baolong	TSSRE4A (tyre pressure monitoring sensor)	DA103787
HUF Baolong	TSSSG4G6 (tyre pressure monitoring sensor)	DA103787
HUF Baolong	TSSSG4G6b (tyre pressure monitoring sensor)	DA28467
Schrader	AG5SP4-D (tyre pressure monitoring sensor)	DA105282
MARQUARDT	DC12A (locking system)	N1138-17 DA103787
MARQUARDT	DC12B (locking system)	N0793-16 DA103787
MARQUARDT	DC12K (locking system)	N0726-16 DA103787
MARQUARDT	MS2 (locking system)	N1067-17 DA103787
MARQUARDT	MK1 (locking system)	N2522-15 DA103787
MARQUARDT	MK2 (locking system)	N2523-15 DA103787

Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	3350.38 (locking system)	N0506-19 DA103787
HELLA	DM4 (locking system)	N3010-17 DA 103365
HELLA	MARSKEY-LESS (locking system)	N1298-17 DA103365
HUF	HUF14632 (locking system)	N2147-15 DA103787
HUF	HUF4761 (locking system)	N2797-12 DA103365
LEOPOLD KOSTAL	KK1 (locking system)	N2292-15
Hirschmann	920287A (locking system)	N0812-11
Hirschmann	920287B (locking system)	N1231-12
KATHREIN	RKE213E1 (locking system)	N2225-15
Meta System	ITS/TPS (interior protection)	N2215-11
Meta System	MUW II	N2216-11

Serbia

Manufacturer	Model designation	Radio equipment approval number
Bosch	LRR3 (radar sensor)	1-06-3454-19 0/09
Bosch	MRR1Rear (radar sensor)	34540-840/ 17-3
Bosch	MRRe14FCR (radar sensor)	P1617068100
ADC	ADC – ARS4-A (radar sensor)	И011 14

Manufacturer	Model designation	Radio equipment approval number
ADC	ADC – ARS4-B (radar sensor)	И011 14
Huf Baolong	TSSRE4A (tyre pressure monitoring sensor)	И005 17
Huf Baolong	TSSSG4G6 (tyre pressure monitoring sensor)	И005 17

Manufacturer	Model designation	Radio equipment approval number
Huf Baolong	TSSSG4G6b (tyre pressure monitoring sensor)	И005 19
Schrader	AG5SP4-D (tyre pressure monitoring sensor)	И005 15
Schrader	MFR (tyre pressure monitoring sensor)	И005 19

Manufacturer	Model designation	Radio equipment approval number
Schrader	GG4T (tyre pressure monitoring sensor)	И005 17
Schrader	DG6W2D4 (tyre pressure monitoring sensor)	И005 18
Schrader	MC34MA4 (tyre pressure monitoring sensor)	И011 11

Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	DC12A (locking system)	И005 17 P1617045200
MARQUARDT	DC12B (locking system)	И011 11
MARQUARDT	DC12K (locking system)	И011 11
MARQUARDT	MS2 (locking system)	И011 17
HELLA	DM4 (locking system)	И005 17 P1617108200

Manufacturer	Model designation	Radio equipment approval number
HELLA	MARSKEY-LESS (locking system)	И005 17 P1617052600
HUF	HUF14632 (locking system)	И005 18 P1618104600
HUF	HUF4761 (locking system)	И005 18 P1618156300
LEOPOLD KOSTAL	KK1 (locking system)	И005 18 P1618080200

Manufacturer	Model designation	Radio equipment approval number
Hirschmann	920287A (locking system)	И005 18 P1618084500
Hirschmann	920287B (locking system)	И005 18 P1618084400
KATHREIN	RKE213E1 (locking system)	И005 18 P1618107600

Manufacturer	Model designation	Radio equipment approval number
Gentex	EURO II (locking system)	И005 14 P1614085200
Meta System	MUW II (interior protection)	И011 19 P1619045500

South Africa

Manufacturer	Model designation	Radio equipment approval number
Bosch	MRR1Rear (radar sensor)	TA-2014/212
Bosch	MRRe14FCR (radar sensor)	TA-2017/2013
Bosch	LRR3 (radar sensor)	1965/007009/07
ADC	ARS4-A (radar sensor)	TA-2014/1637

Manufacturer	Model designation	Radio equipment approval number
ADC	ARS4-B (radar sensor)	TA-2014/1783
Huf Baolong	TSSRE4A (tyre pressure monitoring sensor)	TA-2017/1393
Huf Baolong	TSSSG4G6 (control unit) (tyre pressure monitoring sensor)	TA-2017/1391

Manufacturer	Model designation	Radio equipment approval number
Huf Baolong	TSSSG4G6b (tyre pressure monitoring sensor)	TA-2019/1440
Schrader	AG5SP4-D (tyre pressure monitoring sensor)	TA-2015/072 Approved
Schrader	MFR (tyre pressure monitoring sensor)	TA-2019/273 Approved

Manufacturer	Model designation	Radio equipment approval number
Schrader	GG4T (tyre pressure monitoring sensor)	TA-2017/3884 Approved
Schrader	DG6W2D4 (tyre pressure monitoring sensor)	TA-2017/2933 Approved
Schrader	MC34MA4 (tyre pressure monitoring sensor)	TA-2011/1370 Approved
MARQUARDT	DC12A (locking system)	TA-2017/312

Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	DC12B (locking system)	TA-2011/370
MARQUARDT	DC12K (locking system)	TA-2012/1542
MARQUARDT	MS2 (locking system)	TA-2016/3314
MARQUARDT	MK1 (locking system)	TA-2015/179
MARQUARDT	MK2 (locking system)	TA-2015/180

Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	3 350.38 (locking system)	TA-2018/3985
HELLA	DM4 (locking system)	TA-2017/2518
HELLA	MARSKEY-LESS (locking system)	TA-2016/3500
HUF	HUF14632 (locking system)	TA-2015/1077

Manufacturer	Model designation	Radio equipment approval number
HUF	HUF4761 (locking system)	TA-2012/1543
LEOPOLD KOSTAL	KK1 (locking system)	TA-2015/595
Hirschmann	920287A (locking system)	TA-2011/374
Hirschmann	920287B (locking system)	TA-2013/1262

Manufacturer	Model designation	Radio equipment approval number
KATHREIN	RKE213E1 (locking system)	TA-2015/1438
Gentex	EURO II (locking system)	TA-2005/614
Gentex	MUAHL 5 (locking system)	TA-2015/1386
Meta System	ITS Master (interior protection)	TA-2011/1636

Manufacturer	Model designation	Radio equipment approval number
Meta System	ITS Sensor (interior protection)	TA-2011/1227
Meta System	MUW II (interior protection)	TA-2019/261

Oman

Manufacturer	Model designation	Radio equipment approval number
Bosch	LRR3	TRA/TA-R/1049/09
Bosch	MRR1Rear (radar sensor)	TRA/TA-R/1849/14
Bosch	MRRe14FCR (radar sensor)	TRA/TA-R/4353/17
ADC	ARS4-A (radar sensor)	R/2016/14 D080134
ADC	ARS4-B (radar sensor)	R/2210/14 D080134
Huf Baolong	TSSRE4A (tyre pressure monitoring sensor)	TRA R/4516/17 D100428
Huf Baolong	TSSSG4G6 (tyre pressure monitoring sensor)	TRA R/4515/17 D100428
Huf Baolong	TSSSG4G6b (tyre pressure monitoring sensor)	TRA R/7506/19 D100428
Schrader	AG5SP4-D (tyre pressure monitoring sensor)	TRA R/2380/15 D080134
Schrader	MFR (tyre pressure monitoring sensor)	TRA R/7464/19 D090258

Manufacturer	Model designation	Radio equipment approval number
Schrader	GG4T (tyre pressure monitoring sensor)	TRA TA-R/4686/17 D080134
Schrader	DG6W2D4 (tyre pressure monitoring sensor)	TRA TA-R/5511/18 D172249
MARQUARDT	DC12A (locking system)	TRA/TA-RD100428
MARQUARDT	DC12B (locking system)	TRA/TA-R/0227/11
MARQUARDT	DC12K (locking system)	TRA/TA-R/0228/11
MARQUARDT	MS2 (locking system)	TRA/TA-R/4136/17
MARQUARDT	MK1 (locking system)	TRA/TA-R/2848/15
MARQUARDT	MK2 (locking system)	TRA/TA-R/2900/15
MARQUARDT	3 350.38 (locking system)	TRA/TA-R/7051/19
HELLA	DM4 (locking system)	TRA/TA-R/4548/17
HELLA	MARSKEYLESS (locking system)	TRA/TA-R/4158/17
HUF	HUF14632 (locking system)	TRA/TA-R/2665/15
HUF	HUF4761 (locking system)	TRA/TA-R/0920/12
LEOPOLD KOSTAL	KK1 (locking system)	TRA/TA-R/3129/16
Hirschmann	920287A (locking system)	TRA/TA-R/0210/11

Manufacturer	Model designation	Radio equipment approval number
Hirschmann	920287B (locking system)	TRA/TA-R/0655/12
KATHREIN	RKE213E1 (locking system)	TRA/TA-R/2715/15

Thailand

Manufacturer	Model designation	Radio equipment approval number
Bosch	LRR3 (radar sensor)	A57006-15
Bosch	MRR1Rear (radar sensor)	A57005-14
Bosch	MRRe14FCR (radar sensor)	A57003-17

Manufacturer	Model designation	Radio equipment approval number
Meta System	ITS/TPS (interior protection)	RF test report: 166683TRFWL EMC test report: 166683TRF EMC Safety report: 149852TRFSAF

Manufacturer	Model designation	Radio equipment approval number
Meta System	MUW II (interior protection)	RF test report: 149852-2R1TRFEMC EMC test report: 149852-1R1TRFEMC Safety report:

Manufacturer	Model designation	Radio equipment approval number
		149852TRFSAF

Togo

Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	DC12A (locking system)	No. 055/19
MARQUARDT	DC12B (locking system)	No. 057/19
MARQUARDT	DC12K (locking system)	No. 056/19
MARQUARDT	MS2 (locking system)	No. 008/19
MARQUARDT	MK1 (locking system)	No. 021/19
MARQUARDT	MK2 (locking system)	No. 020/19
HELLA	DM4 (locking system)	No. 039/19
HELLA	MARSKEYLESS (locking system)	No. 040/19
HUF	HUF4761 (locking system)	No. 041/19

Manufacturer	Model designation	Radio equipment approval number
LEOPOLD KOSTAL	KK1 (locking system)	No. 060/19
KATHREIN	RKE213E1 (locking system)	No. 024/19

Ukraine

Manufacturer	Model designation	Radio equipment approval number
Bosch	LRR3 (radar sensor)	UA.TR.109.R.0031-19
Bosch	MRR1Rear (radar sensor)	UA.TR.109.R.0598-18
Bosch	MRRe14FCR (radar sensor)	UA.TR.109.R.0030-19
ADC	ARS4-A (radar sensor)	UA RF: 1CONT0004

Manufacturer	Model designation	Radio equipment approval number
ADC	ARS4-B (radar sensor)	UA RF: 1CONT0001
Huf Baolong	TSSRE4A (tyre pressure monitoring sensor)	UA 1.001.018 568-19-TE
Huf Baolong	TSSSG4G6 (control unit) (tyre pressure monitoring sensor)	UA 1.001.018 586-19-TE

Manufacturer	Model designation	Radio equipment approval number
Huf Baolong	TSSSG4G6b (control unit) (tyre pressure monitoring sensor)	UA 1.001.019 289-19-TE
Schrader	AG5SP4 (tyre pressure monitoring sensor)	UA.TR. 028
MARQUARDT	DC12A (locking system)	UA1O094 . 004789-17

Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	DC12B (locking system)	UA.R.TR. 052.308-19
MARQUARDT	DC12K (locking system)	UA.R.TR. 052.309-19
MARQUARDT	MS2 (locking system)	UA1.001. 019129-19-TE
MARQUARDT	MK1 (locking system)	UA1.001. 019233-19-TE

Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	MK2 (locking system)	UA1.001. 019234-19-TE
MARQUARDT	3 350.38 (locking system)	UA1.001. 018888-19-TE
HELLA	DM4 (locking system)	UA.TR. 109.R. 0325-18
HELLA	MARSKEYLESS (locking system)	RTS.UKR. 355-34/ 18

Manufacturer	Model designation	Radio equipment approval number
HUF	HUF14632 (locking system)	1O094.0 04959-17
HUF	HUF4761 (locking system)	UA1.001. 018653-1 9-TE
LEOPOLD KOSTAL	KK1 (locking system)	1O094.0 06682-19
Hirsch-mann	920287A (locking system)	1O094.0 05751-17
Hirsch-mann	920287B (locking system)	1O094.0 04974-17

Manufacturer	Model designation	Radio equipment approval number
KATHREIN	RKE213E1 (locking system)	1O094.0 05308-17
Gentex	EURO II (locking system)	UA1.001. 008806-15

United Arab Emirates

Manufacturer	Model designation	Radio equipment approval number
ADC	ARS4-A (radar sensor)	TRA ER58296 /17, DA40068
ADC	ARS4-B (radar sensor)	TRA ER61136 /18, DA40068

Manufacturer	Model designation	Radio equipment approval number
Huf Baolong	TSSRE4A (tyre pressure monitoring sensor)	TRA ER57806/17, DA36976/14
Huf Baolong	TSSSG4G6 (control unit) (tyre pressure monitoring sensor)	TRA ER57807/17, DA36976/14

Manufacturer	Model designation	Radio equipment approval number
Huf Baolong	TSSSG4G6b (control unit) (tyre pressure monitoring sensor)	TRA ER7307/19, DA00862 37/12
Schrader	AG5SP4-D (tyre pressure monitoring sensor)	TRA ER37156/15, DA00470 74/10

Manufacturer	Model designation	Radio equipment approval number
Schrader	GG4T (tyre pressure monitoring sensor)	TRA ER57985/17, DA00470 74/10
Schrader	DG6W2D4 (tyre pressure monitoring sensor)	TRA ER96052 8/18, DA00470 74/10

Manufacturer	Model designation	Radio equipment approval number
Schrader	MC34MA4 (tyre pressure monitoring sensor)	TRA ER37066/15, DA00470 74/10
MARQUARDT	DC12A (locking system)	TRA ER53465/17, DA00189 94/09

Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	DC12B (locking system)	TRA ER00678 28/11, DA00189 94/09
MARQUARDT	DC12K (locking system)	TRA ER00678 29/11, DA00189 94/09

Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	MS2 (locking system)	TRA ER52668/17, DA00189 94/09
MARQUARDT	MK1 (locking system)	TRA ER40046/15, DA00189 94/09

Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	MK2 (locking system)	TRA ER40047/15, DA0018994/09
MARQUARDT	3350.38 (locking system)	TRA ER69280/19, 0018994/09

Manufacturer	Model designation	Radio equipment approval number
HELLA	DM4 (locking system)	TRA ER56616/15, DA44932/15
HELLA	MARSKEYLESS (locking system)	TRA ER56005/15, DA44932/15

Manufacturer	Model designation	Radio equipment approval number
HUF	HUF14632 (locking system)	TRA ER63716/18, DA36976/14
HUF	HUF4761 (locking system)	TRA ER55496/17, DA36976/14
LEOPOLD KOSTAL	KK1 (locking system)	ER62622/18

Manufacturer	Model designation	Radio equipment approval number
Hirschmann	920287A (locking system)	TRA ER52213/17, DA35219/14
Hirschmann	920287B (locking system)	TRA ER42011/5, DA35219/14

Manufacturer	Model designation	Radio equipment approval number
KATHREIN	RKE213E1 (locking system)	TRA ER64693/18, DA36975/14
Gentex	MUAHL 5 (locking system)	TRA ER41849/15, DA35176/14

Vietnam

Manufacturer	Model designation	Radio equipment approval number
Huf Baolong	TSSRE4A (tyre pressure monitoring sensor)	C0112200717AF04A2
Schrader	AG5SP4 (tyre pressure monitoring sensor)	C0002050119AF042A
Schrader	GG4T (tyre pressure monitoring sensor)	C0170191017AF04A2
Schrader	DG6W2D4 (tyre pressure monitoring sensor)	C0078070518AF04A2

The Eurasian Economic Union

Manufacturer	Model designation	Radio equipment approval number
Bosch	LRR3 (radar sensor)	–
Bosch	MRR1Rear (radar sensor)	–
Bosch	MRRe14FCR (radar sensor)	–
ADC	ARS4-A (radar sensor)	–
ADC	ARS4-B (radar sensor)	–

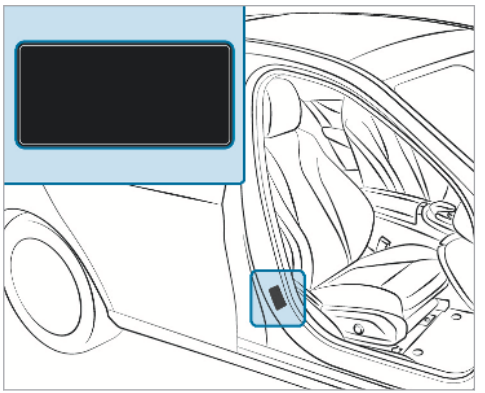
Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	DC12A (locking system)	–
MARQUARDT	DC12B (locking system)	–
MARQUARDT	DC12K (locking system)	–
MARQUARDT	MS2 (locking system)	–
MARQUARDT	MK1 (locking system)	–

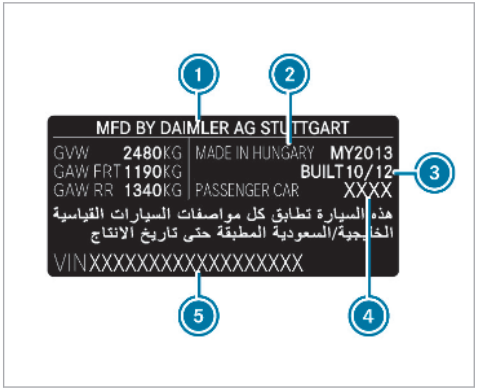
Manufacturer	Model designation	Radio equipment approval number
MARQUARDT	MK2 (locking system)	–
MARQUARDT	3350.38 (locking system)	–
HELLA	DM4 (locking system)	–
HELLA	MARSKEYLESS (locking system)	–
HUF	HUF4761 (locking system)	–
HUF	HUF14632 (locking system)	–

Manufacturer	Model designation	Radio equipment approval number
LEOPOLD KOSTAL	KK1 (locking system)	–
Hirschmann	920287A (locking system)	–
Hirschmann	920287B (locking system)	–
KATHREIN	RKE213E1 (locking system)	–

Vehicle identification plate, VIN and engine number overview

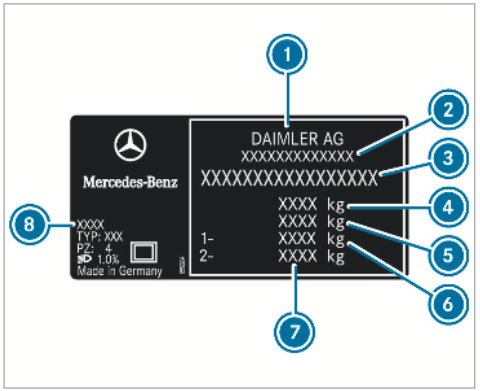
Vehicle identification plate





Vehicle identification plate (example: Kuwait)

1. Vehicle manufacturer
2. Place of manufacture
3. Manufacturing date
4. Paint code
5. VIN

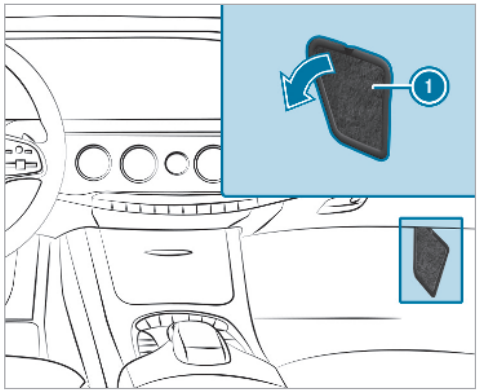


Vehicle identification plate (example: all other countries)

1. Vehicle manufacturer
2. EU general operating permit number (only for certain countries)
3. VIN (vehicle identification number)
4. Maximum permissible gross vehicle weight (kg)
5. Permissible gross mass of vehicle combination (kg) (for certain countries only, optional)
6. Maximum permissible front axle load (kg)
7. Maximum permissible rear axle load (kg)
8. Paint code

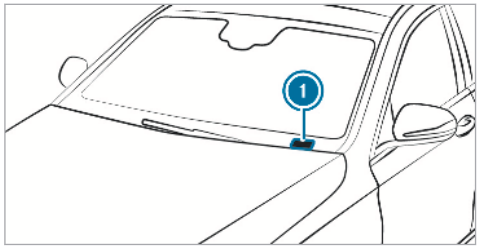
ⓘ The data shown in the illustration is example data.

VIN in front of the front seat



1. VIN (vehicle identification number)

VIN at the lower edge of the windscreen



① VIN (vehicle identification number)

The VIN at the lower edge of the windscreen is only available in some countries.

Engine number

The engine number is stamped into the crankcase.

ⓘ Further information can be obtained at a qualified specialist workshop.

Operating fluids

Notes on operating fluids

⚠ WARNING Risk of injury from operating fluids harmful to your health

Operating fluids may be poisonous and harmful to your health.

- Observe the text on the original containers when using, storing or disposing of operating fluids.
- Always store operating fluids sealed in their original containers.
- Always keep children away from operating fluids.

⚠ WARNING Risk of fire or explosion from fuel

Fuels are highly flammable.

- Fire, naked flames, smoking and creation of sparks must be avoided.
- Switch off the ignition and, if available, the stationary heater, before and while refuelling the vehicle.

⚠ WARNING Risk of injury from fuels

Fuels are poisonous and hazardous to your health.

- Do not swallow fuel or let it come into contact with skin, eyes or clothing.
- Do not inhale fuel vapour.
- Keep children away from fuel.
- Keep doors and windows closed during the refuelling process.

If you or other people come into contact with fuel, observe the following:

- Immediately rinse fuel off your skin with soap and water.
- If fuel comes into contact with your eyes, immediately rinse them thoroughly with clean water. Seek medical attention immediately.

- If you swallow fuel, seek medical attention immediately. Do not induce vomiting.
- Change immediately out of clothing that has come into contact with fuel.

ENVIRONMENTAL NOTE Environmental pollution caused by environmentally irresponsible disposal

- Dispose of operating fluids in an environmentally responsible manner.

Operating fluids include the following:

- fuels
- exhaust gas aftertreatment additives, e.g. DeNOx agent AdBlue®, diesel exhaust fluid
- lubricants
- coolant
- brake fluid
- windscreen washer fluid
- climate control system refrigerant

Only use products approved by Mercedes-Benz. Damage caused by the use of products that have not been approved is not covered by the Mercedes-Benz warranty or goodwill gestures.

You can identify operating fluids approved by Mercedes-Benz by the following inscriptions on the container:

- MB-Freigabe (e.g. MB-Freigabe 229.51)
- MB-Approval (e.g. MB-Approval 229.51)

Further information on approved operating fluids:

- in the Mercedes-Benz Specifications for Operating Fluids at http://bevo.mercedes-benz.com (by entering the designation)
- in the Mercedes-Benz Specifications for Operating Fluids in the Mercedes-Benz BeVo app (by entering the designation)
- at a qualified specialist workshop

Fuel

Information on fuel grades for vehicles with petrol engines

Observe the notes on operating fluids (→ page 564).

NOTE Damage caused by the wrong fuel

Even small amounts of the wrong fuel could result in damage to the fuel system, the engine and the emission control system.

- Only refuel using unleaded, sulphur-free fuel that conforms to European EN 228, or an equivalent specification.

Fuel of this specification may contain up to 10% ethanol by volume. Your vehicle is suitable for use with E10 fuel.

Never refuel with one of the following fuels:

- diesel
- regular petrol with an octane number lower than 91 RON

- petrol with more than 10% ethanol by volume, e.g. E15, E20, E85, E100
- petrol with more than 3% methanol by volume, e.g. M15, M30
- petrol with additives containing metal

If you have accidentally refuelled with the wrong fuel:

▶ do not switch on the ignition.

▶ consult a qualified specialist workshop.

According to European standard EN 16942 you can find the following compatibility indications for fuel:

- on the instruction label on the fuel filler flap of your vehicle
- on the fuel pump or pump nozzle suitable for your vehicle throughout Europe

① For petrol with maximum 5% ethanol by volume

② For petrol with maximum 10% ethanol by volume

If the available fuel is not sufficiently low in sulphur, this can produce unpleasant odours.

Recommended fuel: the recommended octane number for your vehicle can be found in the instruction label in the fuel filler flap (→ page 190).

All models: if you wish to achieve maximum engine output, refuel using only super unleaded petrol with at least 98 RON. Alternatively, you can also refuel using premium grade petrol with at least 95 RON.

All models: as a temporary measure, if the recommended fuel is not available, you may also use regular unleaded petrol with an octane number of at least 91 RON. This may reduce engine output and increase fuel consumption.

Never refuel using petrol with a lower RON.

Further information on fuel can be found:

- at a filling station
- at a qualified specialist workshop

Information on additives in petrol

Observe the notes on operating fluids (→ page 564).

! NOTE Damage from use of unsuitable additives

Even small amounts of the wrong additive may lead to malfunctions occurring.

▶ Only add cleaning additives recommended by Mercedes-Benz to the fuel.

Mercedes-Benz recommends that you use fuel brands that have additives.

In some countries, the fuel available may not have sufficient additives. Residue could build up in the fuel injection system as a result. In this case, in consultation with a Mercedes-Benz service centre, the fuel may be mixed with the cleaning additive recommended by Mercedes-Benz. Be sure to observe the notes and mixing ratios specified on the container.

Information on fuel grades for vehicles with a diesel engine

General notes

Observe the notes on operating fluids (→ page 564).

⚠ WARNING Risk of fire from fuel mixture

If you mix diesel fuel with petrol, the flash point of the fuel mixture is lower than that of pure diesel fuel.

- ▶ Never refuel using petrol in diesel engines.
- ▶ Never mix petrol with diesel fuel.

! NOTE Damage caused by the wrong fuel

Even small amounts of the wrong fuel could result in damage to the fuel system, the engine and the emission control system.

- ▶ Only refuel using sulphur-free diesel fuel that conforms to European standard EN 590, or an equivalent specification.
  In countries without sulphur-free diesel fuel, refuel using only low-sulphur diesel fuel with a sulphur content less than 50 ppm.

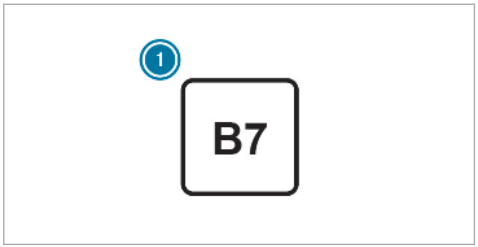
Never refuel with one of the following fuels:

- petrol
- marine diesel
- heating oil
- pure bio-diesel fuel or vegetable oil
- paraffin or kerosene

If you have accidentally refuelled with the wrong fuel:

- ▶ Do not switch the ignition on.
- ▶ Consult a qualified specialist workshop.

The following compatibility indication for fuel applies to your vehicle:



① For diesel fuel with a maximum of 7% by volume bio-diesel (fatty acid methyl ester)

According to European standard EN 16942 you can find the compatibility indications at the following locations:

- on the vehicle on the information label in the fuel filler flap (→ page 190)
- on the fuel pump or pump nozzle suitable for your vehicle throughout Europe

Information on low outside temperatures
Refuel your vehicle with as much winter diesel fuel as possible at the beginning of winter.

Before changing over to winter diesel fuel, the fuel tank should be empty, if possible. When first refuelling with winter diesel fuel, only refuel using a small amount, e.g. to reserve level. The fuel tank can be filled as usual when next refuelling.

Further information on fuel can be obtained at a filling station or a qualified specialist workshop.

Tank content and fuel reserve
Missing values were not available at the time of going to press.

The total capacity of the fuel tank may vary, depending on the vehicle equipment.

Model	Total capacity
All models	
	of which reserve fuel
All models	

AdBlue®

Notes on AdBlue®
Observe the notes on operating fluids (→ page 564).

AdBlue® is a water-soluble fluid for the NOx exhaust gas aftertreatment of diesel engines.

It may be improper or punishable in some countries to operate a vehicle that uses no AdBlue® or one that does not comply with the specifications of these operating instructions.

! **NOTE** Malfunctions due to the dilution of AdBlue® or the use of additive-enhanced AdBlue®

The function of the NOx exhaust gas aftertreatment can be impaired by the use of unsuitable denoxification agents.

- ▶ Only use AdBlue® in accordance with ISO 22241.
- ▶ Do not dilute AdBlue® with water.
- ▶ Do not use additive-enhanced AdBlue®.

! **NOTE** Damage and malfunctions due to impurities in AdBlue®

Consequences of impurities in AdBlue®:

- increased emission values
- damage to the catalytic converter
- NOx exhaust gas aftertreatment malfunctions

- ▶ Avoid impurities in AdBlue®.

AdBlue® residues crystallise after a period of time, and contaminate the surfaces with which they come into contact. Clean the dirty surfaces with water as soon as possible.

When you open the AdBlue® tank, small amounts of ammonia vapour may escape. Do not inhale any ammonia vapours that may be released. Only fill the AdBlue® tank in well-ventilated areas.

AdBlue® capacity
Missing values were not available at the time of going to press.

Total capacity of AdBlue® tank

Model	Total capacity
All models	

AdBlue® consumption

The average AdBlue® consumption is between 1% and 5% of fuel consumption. Like fuel consumption, AdBlue® consumption is highly dependent upon driving style and operating conditions. For this reason, your vehicle's actual consumption figures under day-to-day operating conditions may differ from the consumption figures calculated. The frequency at which you will have to top up AdBlue® will also vary. Have the AdBlue® supply checked at a qualified specialist workshop before making journeys outside of Europe. Before a longer stay outside of Europe, consult a qualified specialist workshop.

AdBlue® range and fill level

The AdBlue® fill level and range can be displayed via the on-board computer. The AdBlue® range shown depends strongly on the driving style and operating conditions. The actual range can therefore deviate from the range currently displayed in the on-board computer. The information supplied in the Owner's Manual regarding the reserve quantity at the first display warning and on the minimum top-up quantity when the tank is empty is also to be understood as guide values.

Display the AdBlue® range and level (→ page 278).

Display the AdBlue® fill level and range (see vehicle Owner's Manual).

Engine oil

Notes on engine oil

Observe the notes on operating fluids (→ page 564).

! **NOTE** Engine damage caused by an incorrect oil filter, incorrect oil or additives

- Do not use engine oils or oil filters which do not correspond to the specifications explicitly prescribed for the service intervals.
- Do not alter the engine oil or oil filter in order to achieve longer change intervals than prescribed.
- Do not use additives.
- Have the engine oil renewed at regular intervals.

Mercedes-Benz recommends that you have the oil change carried out at a qualified specialist workshop.

Only use engine oils approved by Mercedes-Benz.

Petrol engines: for certain countries, different engine oils can be used in conjunction with reduced maintenance intervals.

ⓘ Further information on different engine oils can be obtained at a qualified specialist workshop.

Quality and capacity of engine oil

Missing values were not available at the time of going to press.

MB-Freigabe or MB-Approval (petrol engines)

Model	Engine oil specifications
All models	

MB-Freigabe or MB-Approval (diesel engines)

Model	Engine oil specifications
All models	

* recommended for lowest possible fuel consumption (lowest SAE viscosity class in each case; observe possible restrictions of the approved SAE viscosity classes)

To achieve the lowest possible fuel consumption, it is recommended to use the engine oil specifications marked in the table for the lowest SAE viscosity class. Possible restrictions of the approved SAE viscosity classes must be observed.

If the engine oils listed in the table are not available, you may add a maximum of 1.0 litre of the following engine oils once only:

- **petrol engines:** MB-Freigabe or MB-Approval
- **diesel engines:** MB-Freigabe or MB-Approval

The following values refer to an oil change, including the oil filter.

Missing values were not available at the time of going to press.

Replacement amount

Model	Replacement amount
All models	

Notes on brake fluid

Observe the notes on operating fluids (→ page 564).

⚠ **WARNING** Risk of an accident due to vapour pockets forming in the brake system

The brake fluid constantly absorbs moisture from the air. This lowers the boiling point of the brake fluid. If the boiling point is too low, vapour pockets may form in the brake system when the brakes are applied hard.

This impairs the braking effect.

▶ Have the brake fluid renewed at the specified intervals.

Have the brake fluid regularly replaced at a qualified specialist workshop.
Only use a brake fluid approved by Mercedes-Benz according to MB-Freigabe or MB-Approval 331.0.

Coolant

Notes on coolant
Observe the notes on operating fluids (→ page 564).

⚠ **WARNING** Risk of fire- and injury from antifreeze

If antifreeze comes into contact with hot component parts in the engine compartment, it may ignite.

▶ Allow the engine to cool down before you top up the antifreeze.

▶ Make sure that no antifreeze spills out next to the filler opening.

▶ Thoroughly clean the antifreeze from component parts before starting the vehicle.

! **NOTE** Damage caused by incorrect coolant

▶ Only add coolant that has been premixed with the required antifreeze protection.

Information on coolant is available at the following locations:

- in the Mercedes-Benz Specifications for Operating Fluids 310.1
  - at https://bevo.mercedes-benz.com
  - in the Mercedes-Benz BeVo App
- at a qualified specialist workshop

! **NOTE** Overheating at high outside temperatures

If an inappropriate coolant is used, the engine cooling system is not sufficiently protected against overheating and corrosion at high outside temperatures.

▶ Always use coolant approved by Mercedes-Benz.

▶ Observe the instructions in the Mercedes-Benz Specifications for Operating Fluids 310.1.

Have the coolant regularly replaced at a qualified specialist workshop.

The proportion of corrosion inhibitor/antifreeze concentrate in the engine cooling system should be:

- a minimum of 50% (antifreeze protection down to approximately -37 °C)
- a maximum of 55% (antifreeze protection down to -45 °C)

Notes on windscreen washer fluid

Observe the notes on operating fluids (→ page 564).

WARNING - Risk of fire and injury due to windscreen washer concentrate

Windscreen washer concentrate is highly flammable. It could ignite if it comes into contact with hot engine component parts or the exhaust system.

- Make sure that no windscreen washer concentrate spills out next to the filler opening.

NOTE Damage to the exterior lighting due to unsuitable windscreen washer fluid

Unsuitable windscreen washer fluids may damage the plastic surface of the exterior lighting.

- Only use windscreen washer fluids which are also suitable for use on plastic surfaces, e.g. MB SummerFit or MB WinterFit.

NOTE Blocked spray nozzles caused by mixing windscreen washer fluids

- Do not mix MB SummerFit and MB WinterFit with other windscreen washer fluids.

Do not use distilled or de-ionised water as the fill level sensor may be triggered erroneously.

Recommended windscreen washer fluid:

- Above freezing point: e.g. MB SummerFit
- Below freezing point: e.g. MB WinterFit

For the correct mixing ratio, refer to the information on the antifreeze container.

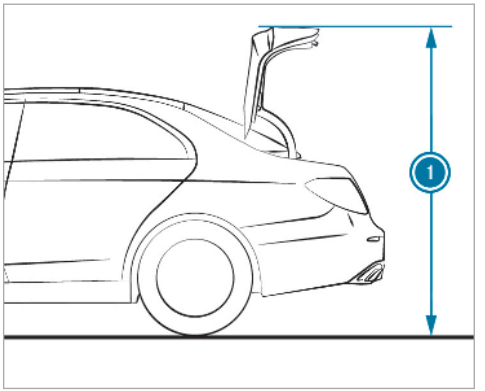
Mix the washer fluid with the windscreen washer fluid all year round.

Vehicle data

Vehicle dimensions

The heights specified may vary as a result of:

- tyres
- load
- condition of the suspension
- optional equipment



Missing values were not available at the time of going to press.

Height when opened

Model	① Height when opened
All models	

Vehicle dimensions

All models	
Vehicle length	
Vehicle width including outside mirrors	
Vehicle width excluding outside mirrors	
Wheelbase	

Vehicle height

Model	
All models	

Weights and loads

Please note that for the specified vehicle data:

- Items of optional equipment increase the unladen weight and reduce the payload.
- Vehicle-specific weight information can be found on the vehicle identification plate (→ page 562).

Missing values were not available at the time of going to press.

Roof load

All models	
Maximum roof load	

Trailer hitch

General notes on the trailer hitch

Modifications to the engine cooling system may be necessary, depending on the vehicle model. The retrofitting of a trailer hitch is only permissible if a towing capacity is specified in your vehicle documents.

Further information can be obtained at a qualified specialist workshop.

Display messages

Introduction

Information about display messages

Display messages appear on the driver display.

Display messages with graphic symbols are simplified in the Owner's Manual and may differ from the symbols on the driver display. The driver display shows high-priority display messages in red. Certain display messages are accompanied by a warning tone.

Please act in accordance with the display messages and follow the additional notes in the Owner's Manual.

For some display messages, a symbol will also be shown:

- ⓘ Further information
- × Hide display message

You can select the desired symbol by swiping left or right on the left-hand Touch Control. Press the ⓘ symbol to show further information on the driver display. Press the × symbol to hide the display message.

You can hide low-priority display messages by pressing the ↩ button or the left-hand Touch Control. The display messages will then be saved in the message memory.

Rectify the cause of a display message as quickly as possible.

High-priority display messages cannot be hidden. The driver display will show these display messages continuously until the cause of the display message has been rectified.

Calling up saved display messages

On-board computer:

→ Service ›› Message memory: XX

If there are no display messages, Keine Meldungen vorhanden will appear on the driver display.

▶ Scroll through the display messages by swiping upwards or downwards on the left-hand Touch Control.

▶ **To exit the message memory:** press the ↩ button.

Occupant safety

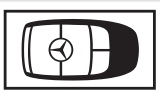
Display messages	Possible causes/consequences and ▶ Solutions
Restraint system malfunction Consult workshop	* The restraint system is malfunctioning (→ page 36). ⚠ **WARNING** Risk of injury due to malfunctions in the restraint system Components in the restraint system may be activated unintentionally or not deploy as intended in an accident. ▶ Have the restraint system checked and repaired immediately at a qualified specialist workshop.
Front left malfunction Consult workshop (example)	* The corresponding restraint system is malfunctioning (→ page 36). ⚠ **WARNING** Risk of injury due to malfunctions in the restraint system Components in the restraint system may be activated unintentionally or not deploy as intended in an accident. ▶ Have the restraint system checked and repaired immediately at a qualified specialist workshop.
Left windowbag malfunction Consult workshop (example)	* The corresponding window airbag is malfunctioning (→ page 36). ⚠ **WARNING** Risk of injury or fatal injury due to a malfunction in the windowbag The windowbag might be triggered unintentionally or might not be triggered at all in the event of an accident. ▶ Have the windowbag checked and repaired immediately at a qualified specialist workshop.

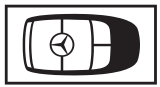
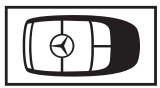
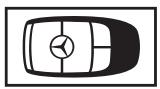
Display messages	Possible causes/consequences and ▶ Solutions
Push rear left seat belt extender back manually See Owner's Manual (example)	* The corresponding seat belt extender is malfunctioning. ▶ Slide the seat belt extender back into its original position manually. ▶ If the malfunction occurs again, consult a qualified specialist workshop.
Front passenger airbag disabled See Owner's Manual	* The front passenger airbag has been disabled even though an adult or a person with an adult stature is on the front passenger seat. If additional forces are applied to the seat, the weight the system detects may be too low. ⚠ **WARNING** - Risk of injury or even fatal injury when the front passenger airbag is disabled If the front passenger airbag is disabled, It will not be deployed in the event of an accident and cannot perform its intended protective function. A person in the front passenger seat could then, for example, come into contact with the vehicle interior, especially if the person is sitting too close to the dashboard. ▶ Be aware of the status of the front passenger airbag both before and during the journey. ▶ Stop the vehicle immediately in accordance with the traffic conditions. ▶ Check the status of the automatic front passenger airbag actuation (→ page 47). ▶ If necessary, consult a qualified specialist workshop immediately.
Front passenger airbag enabled See Owner's Manual	* The front passenger airbag is enabled while the vehicle is in motion: • even when a child, a small adult or an object weighing less than the system weight threshold is located on the front passenger seat

Display messages	Possible causes/consequences and ▶ Solutions
	• even when the front passenger seat is not occupied The system may detect objects or forces that are adding to the weight applied to the seat. ⚠ **WARNING** Risk of injury or fatal injury when using a child restraint system while the front passenger airbag is enabled If you secure a child in a child restraint system on the front passenger seat and the front passenger airbag is enabled, the front passenger airbag may deploy in the event of an accident. The child could be struck by the airbag. ▶ Both before and during the journey, ensure that the status of the front passenger airbag is correct. NEVER use a rearward facing child restraint on a seat protected by an ACTIVE AIRBAG in front of it, DEATH or SERIOUS INJURY to the child can occur. ▶ Stop the vehicle immediately in accordance with the traffic conditions. ▶ Check the status of the automatic front passenger airbag actuation (→ page 47). ▶ If necessary, consult a qualified specialist workshop immediately.
PRE-SAFE inoperative See Owner's Manual	* The PRE-SAFE® functions are malfunctioning. ▶ Consult a qualified specialist workshop.

Display messages	Possible causes/consequences and ▶ Solutions
PRE-SAFE impulse side inoperative See Owner's Manual	* The PRE-SAFE® Impulse Side system is malfunctioning or inoperative after having already been triggered. ▶ Consult a qualified specialist workshop.

Key

Display messages	Possible causes/consequences and ▶ Solutions
 Replace key See Owner's Manual	* **Vehicles with a digital vehicle key :** only a few or no authorisations remain for starting the engine. ▶ Make sure that the internet connection is not restricted by certain mobile phone settings. ▶ Open Mercedes me connect https://www.mercedes.me and call up the Digital Vehicle Key service. ▶ Deactivate the service first and then activate it again. ▶ If the display message still appears, contact the Mercedes-Benz Customer Assistance Center (CAC). * **Vehicles with a digital vehicle key sticker:** only a few or no authorisations remain for starting the engine. ▶ Order a new digital vehicle key sticker from a Mercedes-Benz Service Centre or at the https://www.mercedes-benz-mobile.com/.
 Replace key	* The key needs to be replaced. ▶ Consult a qualified specialist workshop.

Display messages	Possible causes/consequences and ▶ Solutions
 Change key batteries	* The key battery is discharged. ▶ Replace the battery (→ page 69).
 Key not detected (white display message)	* The key is currently undetected. ▶ Change the location of the key in the vehicle. ▶ If the key is still not recognised, place it in the slot for starting with the key (→ page 175).
 Key not detected (red display message)	* The key cannot be detected and may no longer be in the vehicle. The key is no longer in the vehicle and you switch off the engine: • You can no longer start the engine. • You cannot centrally lock the vehicle. ▶ Ensure that the key is in the vehicle. If the key detection function has a malfunction due to a strong radio signal source: ▶ Stop the vehicle immediately in accordance with the traffic conditions. ▶ Place the key in the slot for starting the engine with the key (→ page 175).

Display messages	Possible causes/consequences and ▶ Solutions
Place the key in the marked space See Owner's Manual	* Key detection is malfunctioning. ▶ Change the location of the key in the vehicle. ▶ Place the key in the slot for starting the engine with the key (→ page 175).

Lights

Display messages	Possible causes/consequences and ▶ Solutions
 Left dipped beam (example)	* The corresponding light source is defective. ▶ Drive on carefully. ▶ Consult a qualified specialist workshop immediately. ⓘ LED light sources: the display message for the corresponding light appears only when all the light-emitting diodes in the light are faulty.
 Malfunction See Owner's Manual	* The exterior lighting is malfunctioning. ▶ Consult a qualified specialist workshop. * **Vehicles with a trailer hitch:** a fuse may have blown. ▶ Stop the vehicle in accordance with the traffic conditions. ▶ Check the fuses and replace them if necessary (→ page 486).

Display messages	Possible causes/consequences and ▶ Solutions
Automatic driving lights inoperative	* The light sensor is malfunctioning. ▶ Consult a qualified specialist workshop.
Active Light System inoperative	* The active headlamps are malfunctioning. ▶ Consult a qualified specialist workshop.
Switch on headlamps	* You are driving without low-beam headlamps. ▶ Turn the light switch to the ≡D or AUTO position.
Switch off lights	* You are leaving the vehicle and the lights are still switched on. ▶ Turn the light switch to the AUTO position.

Display messages	Possible causes/consequences and ▶ Solutions
DIGITAL LIGHT Functions limited	* The DIGITAL LIGHT system is malfunctioning. The lighting system will continue to function without the functions of the DIGITAL LIGHT system. ▶ Consult a qualified specialist workshop.
MULTIBEAM LED Functions limited	* The MULTIBEAM LED system is malfunctioning. The lighting system will continue to function without the functions of the MULTIBEAM LED system. ▶ Consult a qualified specialist workshop.
Adaptive Highbeam Assist Plus currently unavailable See Owner's Manual	* Adaptive Highbeam Assist Plus is temporarily unavailable. The system limits have been reached (⟶ page 148). ▶ Drive on. Once the cause of the problem is no longer present, the system will be available again. The Adaptive Highbeam Assist Plus available again display message will appear.
Adaptive Highbeam Assist Plus inoperative	* Adaptive Highbeam Assist Plus is malfunctioning. ▶ Consult a qualified specialist workshop.
Hazard warning lamp system Malfunction	* The hazard warning lamp switch is malfunctioning. ▶ Consult a qualified specialist workshop.

Climate control

Display messages	Possible causes/consequences and ▶ Solutions
inoperative See Owner's Man.	* The stationary heater is temporarily malfunctioning. ▶ When the vehicle is stationary on a level surface and the engine has cooled down, make up to four attempts to switch on the stationary heater, waiting several minutes between each attempt. ▶ If the stationary heater does not switch on, consult a qualified specialist workshop.
inoperative Battery low	* The on-board electrical system voltage is too low. The stationary heater has switched itself off. ▶ Drive an extended distance until the battery has reached a sufficient charge level again.
Inoperative Refuel vehicle	* There is too little fuel in the fuel tank. The stationary heater cannot be switched on. ▶ Refuel the vehicle.

Vehicle

Display messages	Possible causes/consequences and ▶ Solutions
 Vehicle is operational Switch off ignition before exiting	* You are leaving the vehicle when it is in a ready-to-drive state. ▶ When you leave the vehicle, switch off the ignition, secure the vehicle against rolling away and take the key with you. ▶ If you do not leave the vehicle, switch off the electrical consumers, e.g. the seat heating. Otherwise, the 12 V battery may discharge and it will then be possible to start the vehicle only with the aid of a second battery (starting assistance).
 Operation only possible in transmission position P	* The ball neck will not swivel because transmission position D, R or neutral N is selected. ▶ Depress the brake pedal. ▶ Engage park position P.
 Trailer coupling in motion	* The ball neck will retract/extend. Do not attempt to speed up, slow down or initiate the swivel movement using your hand, foot or other aids. During the swivel movement, do not couple a trailer. When the ball neck has reached an operational position, the display message will disappear.

Display messages	Possible causes/consequences and ▶ Solutions
Check trailer hitch lock (white display message)	* The trailer hitch is not operational during a journey with a trailer. ⚠ **WARNING** Risk of an accident if the ball neck is not locked The trailer may become detached. ▶ Stop the vehicle immediately in accordance with the traffic conditions. Do not continue driving. ▶ Uncouple the trailer and secure it against rolling away. ▶ Initiate a new swivel movement and do not re-couple the trailer until the warning/indicator lamp goes out. ▶ Initiate a new swivel movement and, at the same time, pull and hold the button on the boot lid until the ball neck engages beneath the bumper (→ page 266). ▶ When the display message disappears, couple up the trailer and drive on. If the display message does not disappear, the trailer hitch is malfunctioning and the ball neck is not locked. ▶ Do not couple up the trailer. Drive on without the trailer. Note the reduced ground clearance due to the unlocked ball neck. ▶ Consult a qualified specialist workshop. * The trailer hitch will not be operational when the vehicle is stationary. ▶ Uncouple the coupled trailer and secure it against rolling away.

Display messages	Possible causes/consequences and ▶ Solutions
	▶ **If the ball neck is retracted:** initiate a new swivel movement and, at the same time, pull and hold the button on the boot lid until the ball neck engages vertically in the locked position and then engages beneath the bumper (⟶ page 266). ▶ **If the ball neck is extended:** pull and hold the button on the boot lid until the ball neck engages beneath the bumper. If the display message does not disappear, the trailer hitch is malfunctioning and the ball neck is not locked. ▶ Do not couple up the trailer. Drive on without the trailer. Note the reduced ground clearance due to the unlocked ball neck. ▶ Consult a qualified specialist workshop.
 Steering malfunction Drive carefully Visit workshop	* An electric power steering malfunction has occurred. Steering characteristics may be restricted as a result. ▶ Drive on carefully. ▶ Consult a qualified specialist workshop.

Display messages	Possible causes/consequences and ▶ Solutions
 Steering malfunction Increased physical effort See Owner's Manual	* The power steering assistance is malfunctioning. **⚠ WARNING** Risk of an accident due to altered steering characteristics If the power assistance of the steering fails partially or completely, you will need to use more force to steer. ▶ If safe steering is possible, drive on carefully. ▶ Visit or consult a qualified specialist workshop immediately.
 Steering malfunction Stop immediately See Owner's Manual	* The steering is malfunctioning. Steering capability is significantly impaired. **⚠ WARNING** Risk of accident if steering capability is impaired If the steering does not function as intended, the vehicle's operating safety is jeopardised. ▶ Pull over and stop the vehicle safely as soon as possible, paying attention to road and traffic conditions. Do not continue driving under any circumstances. ▶ Consult a qualified specialist workshop.
 Rear axle steering currently malfunctioning	* The rear axle steering is temporarily unavailable. The turning circle may become wider. ▶ Stop the vehicle in accordance with the traffic conditions and restart the engine. If the display message does not disappear: ▶ Drive on carefully. ▶ Consult a qualified specialist workshop.

Display messages	Possible causes/consequences and ▶ Solutions
 Rear axle steering Malfunction Visit workshop	* The rear axle steering is malfunctioning. The rear axle has no steering capability. The steering wheel may be tilted when you drive in a straight line. ▶ Adapt your speed and drive on carefully. ▶ Consult a qualified specialist workshop immediately.
 Rear axle steering Malfunction Stop immediately	* The rear axle steering is malfunctioning. The rear axle has no steering capability. The steering wheel may tilt considerably when you drive in a straight line. Depending on the steering wheel's tilting position, the steering wheel will also vibrate and a continuous warning tone will sound. **⚠ WARNING** Risk of accident if steering capability is impaired If the steering does not function as intended, the vehicle's operating safety is jeopardised. ▶ Pull over and stop the vehicle safely as soon as possible, paying attention to road and traffic conditions. Do not continue driving under any circumstances. ▶ Consult a qualified specialist workshop. ▶ Stop the vehicle immediately in accordance with the traffic conditions. Do not continue driving. ▶ When stopping, bear the enlarged vehicle width in mind.

Display messages	Possible causes/consequences and ▶ Solutions
	▶ Consult a qualified specialist workshop.
Snow chain mode Maximum speed exceeded	* The maximum permissible speed for snow chain mode has been exceeded. ▶ Drive more slowly.
Active bonnet malfunction See Owner's Manual	* The active bonnet (pedestrian protection) is malfunctioning or inoperative after having already been triggered. ▶ Consult a qualified specialist workshop.
	* At least one door is open. ▶ Close all doors.
	* The bonnet is open. ⚠ **WARNING** Risk of accident due to driving with the bonnet unlocked The bonnet may open and block your view. ▶ Never release the bonnet when driving. ▶ Before every trip, ensure that the engine bonnet is locked. ▶ Stop the vehicle immediately, paying attention to road and traffic conditions. ▶ Close the bonnet.

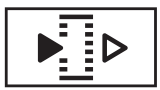
Display messages	Possible causes/consequences and ▶ Solutions
	* The boot lid is open. **⚠ DANGER** Risk of exhaust gas poisoning Combustion engines emit poisonous exhaust gases such as carbon monoxide. Exhaust gases can enter the vehicle interior if the boot lid is open when the engine is running, especially if the vehicle is in motion. ▶ Always switch off the engine before opening the boot lid. ▶ Never drive with the boot lid open. ▶ Close the boot lid.
 Rear left seat backrest not locked (example)	* The seat backrest of the corresponding seat is not engaged. ▶ Fold the seat backrest back until it engages.
Anti-theft alarm system Malfunction	* The anti-theft alarm system is malfunctioning. ▶ Consult a qualified specialist workshop.

Display messages	Possible causes/consequences and ▶ Solutions
Top up washer fluid	* The washer fluid level in the washer fluid reservoir has dropped below the minimum. ▶ Top up the washer fluid (→ page 461).
Intensive cleaning activated for 30 s	* Vehicles with MAGIC VISION CONTROL: intensive cleaning of the windscreen has been activated (→ page 152).

Engine

Display messages	Possible causes/consequences and ▶ Solutions
To switch off the engine, press the Start/Stop button for at least 3 seconds or 3 times.	* You have pressed the start/stop button while the vehicle is in motion. ▶ Information about switching off the engine while driving (→ page 174).

Display messages	Possible causes/consequences and ▶ Solutions
 Top up coolant See Owner's Manual	* The coolant level is too low. **! NOTE** Engine damage due to insufficient coolant ▶ Avoid long journeys with insufficient coolant. ▶ Add coolant (→ page 460). ▶ Have the engine cooling system checked at a qualified specialist workshop.
 Coolant Stop vehicle Switch engine off	* The coolant is too hot. ▶ Stop the vehicle immediately in accordance with the traffic conditions and switch off the engine. **⚠ WARNING** Danger of burns when opening the bonnet If you open the engine bonnet when the engine has overheated or during a fire in the engine compartment, you could come into contact with hot gases or other escaping operating fluids. ▶ Before opening the bonnet, allow the engine to cool down. ▶ In the event of a fire in the engine compartment, keep the engine bonnet closed and call the fire service. ▶ Wait until the engine has cooled down. ▶ Make sure that the air supply to the radiator is not obstructed. ▶ Avoiding high loads on the engine, drive to the nearest qualified specialist workshop. In doing so, ensure that the coolant temperature display remains below 120 °C.

Display messages	Possible causes/consequences and ▶ Solutions
	* The fan motor is defective. ▶ Avoiding high loads on the engine, drive to the nearest qualified specialist workshop. In doing so, ensure that the coolant temperature display remains below 120 °C.
 Reserve fuel level	* The fuel supply has dropped into the reserve range. ▶ Refuel.
 Clean the fuel filter	* **Vehicles with diesel engines:** the fuel filter is dirty or the water in the fuel filter needs to be drained. ▶ Consult a qualified specialist workshop.
 Replace air cleaner	* **Vehicles with diesel engines:** the engine air filter is dirty and must be replaced. ▶ Consult a qualified specialist workshop.

Transmission

Display messages	Possible causes/consequences and ▶ Solutions
Only select P when vehicle is stationary	* Park position P can be engaged only when the vehicle is stationary. ▶ To stop, depress the brake pedal. ▶ Shift the transmission to park position P while the vehicle is stationary.
Apply brake to deselect P position	* You have attempted to shift the transmission out of park position P and into another transmission position. ▶ Depress the brake pedal. ▶ Select transmission position D, R or neutral N.
Apply brake and start engine to shift out of P or N	* You have attempted to shift the transmission out of park position P or neutral N and into another transmission position. ▶ Depress the brake pedal. ▶ Change the transmission position. ▶ Start the engine.
Apply brake to select D or R	* You have attempted to select transmission position D or R. ▶ Depress the brake pedal. ▶ Select transmission position D or R.
Apply brake to select R	* You have attempted to select transmission position R. ▶ Depress the brake pedal. ▶ Select transmission position R.

Display messages	Possible causes/consequences and ▶ Solutions
Apply parking brake to park Visit workshop	* A malfunction has occurred in the emergency power supply to park position P. ▶ Consult a qualified specialist workshop. ▶ Until then, always select park position P manually before you switch off the engine. ▶ Before leaving the vehicle, apply the electric parking brake.
Risk of vehicle rolling away Driver's door open Transmission not in P	* The driver's door is not fully closed and transmission position D, R or neutral N is selected. ▶ Select park position P when switching off the vehicle.
Risk of vehicle rolling away Apply parking brake to park	* The transmission is malfunctioning. Park position P cannot be selected. ▶ Park the vehicle safely. ▶ Use the electric parking brake to secure the vehicle against rolling away. ▶ On gradients, turn the front wheels so that the vehicle will roll towards the kerb if it starts moving.
Risk of vehicle rolling away N activated manually No automatic switch to P	* While the vehicle was at a standstill or driving at very low speed, neutral N was engaged with the engine running or the ignition switched on. **! NOTE** Damage to the vehicle due to it rolling away When the ignition is being switched off or the driver's door opened, automatic engagement of park position P is deactivated. The vehicle may roll away.

Display messages	Possible causes/consequences and ▶ Solutions
	▶ Be ready to brake. ▶ Do not leave the vehicle unattended. ▶ Depress the brake pedal until the vehicle is stationary. ▶ Engage park position P when the vehicle is stationary with the brake pedal depressed. ▶ To continue driving with the brake pedal depressed, select transmission position D or R.
N automatically activated Please select transmission position again	* Neutral N was automatically engaged when the vehicle was rolling or driving. ▶ Depress the brake pedal until the vehicle is stationary. ▶ Engage park position P when the vehicle is stationary with the brake pedal depressed. ▶ To continue driving with the brake pedal depressed, select transmission position D or R.
Reversing not poss. Consult workshop	* The transmission is malfunctioning. The transmission position R cannot be selected. ▶ Consult a qualified specialist workshop.
Transmission Malfunction Stop	* The transmission is malfunctioning. The transmission shifts to neutral N automatically. ▶ Stop the vehicle immediately in accordance with the traffic conditions. ▶ Depress the brake pedal. ▶ Engage park position P. ▶ Consult a qualified specialist workshop.

Display messages	Possible causes/consequences and ▶ Solutions
Consult workshop without changing the transmission position	* The transmission is malfunctioning. The transmission position can no longer be changed. ▶ If transmission position D is selected, consult a qualified specialist workshop and do not change the transmission position. ▶ For all other transmission positions, park the vehicle safely. ▶ Consult a qualified specialist workshop.
Stop vehicle Leave engine running Wait Transmission cooling	* The transmission is overheating. Pulling away may be temporarily impaired or not possible. ▶ Stop the vehicle immediately in accordance with the traffic conditions. Do not continue driving. ▶ Leave the engine running. ▶ Wait until the display message disappears before pulling away.
Auxiliary battery malfunction	* There is a malfunction in the auxiliary battery. ▶ Consult a qualified specialist workshop. ▶ Until then, always select park position P manually before you switch off the engine. ▶ Before leaving the vehicle, apply the electric parking brake.

Brakes

Display messages	Possible causes/consequences and ▶ Solutions
Parking brake See Owner's Manual	* The yellow (P) indicator lamp is lit. The electric parking brake is malfunctioning. **To apply:** ▶ Switch the ignition off and switch it back on. ▶ Apply the electric parking brake manually (→ page 201). If it is not possible to apply the electric parking brake: ▶ Consult a qualified specialist workshop. ▶ Where necessary, also secure the parked vehicle against rolling away. * The yellow (P) indicator lamp and the red (P) indicator lamp are lit. The electric parking brake is malfunctioning. **To release:** ▶ Switch the ignition off and switch it back on. ▶ Release the electric parking brake manually (→ page 201). or ▶ Release the electric parking brake automatically (→ page 201). If it is still not possible to release the electric parking brake: ▶ Do not continue driving. Consult a qualified specialist workshop.

Display messages	Possible causes/consequences and ▶ Solutions
	* The yellow (P) indicator lamp is lit and the red (P) indicator lamp is flashing. The electric parking brake is malfunctioning. The electric parking brake could not be applied or released. ▶ Switch the ignition off and switch it back on. **To apply:** ▶ Release and then apply the electric parking brake manually (→ page 201). **To release:** ▶ Apply and then release the electric parking brake manually. If it is not possible to apply the electric parking brake or the red (P) indicator lamp continues to flash: ▶ Do not continue driving. Consult a qualified specialist workshop. ▶ Where necessary, also secure the parked vehicle against rolling away. * The yellow (P) indicator lamp is lit and the red (P) indicator lamp flashes for approximately ten seconds after the electric parking brake has been applied or released. It then remains lit or goes out. The electric parking brake is malfunctioning. **If the charge level is too low:** ▶ Charge the 12 V battery. **To apply:**

Display messages	Possible causes/consequences and ▶ Solutions
	▶ Apply the electric parking brake manually. If it is not possible to apply the electric parking brake: ▶ Consult a qualified specialist workshop. ▶ Where necessary, also secure the parked vehicle against rolling away. **To release:** ▶ If the conditions for automatic release are fulfilled and the electric parking brake is not released automatically, release the electric parking brake manually (→ page 201). If it is still not possible to release the electric parking brake: ▶ Do not continue driving. Consult a qualified specialist workshop.
 Release parking brake	* The red (P) indicator lamp is flashing. The electric parking brake is applied while you are driving: • A condition for automatic release of the electric parking brake has not been fulfilled (→ page 201). • You are performing emergency braking using the electric parking brake (→ page 201). ▶ Check the conditions for automatic release of the electric parking brake. ▶ Release the electric parking brake manually.

Display messages	Possible causes/consequences and ▶ Solutions
 Turn on the ignition to release the parking brake	* The red (P) indicator lamp is lit. You have attempted to release the electric parking brake with the ignition switched off. ▶ Switch on the ignition.
 Brake immediately	* A malfunction has occurred while the HOLD function was activated. A horn may also sound at regular intervals. You cannot start the engine. ▶ Immediately depress the brake pedal firmly until the display message disappears. You can restart the engine.
 Check brake fluid level	* There is insufficient brake fluid in the brake fluid reservoir. ⚠ **WARNING** Risk of an accident due to low brake fluid level If the brake fluid level is too low, the braking effect and the braking characteristics may be impaired. ▶ Stop the vehicle as soon as possible, paying attention to road and traffic conditions. Do not continue driving. ▶ Consult a qualified specialist workshop. ▶ Do not top up the brake fluid.

Display messages	Possible causes/consequences and ▶ Solutions
Check brake pads See Owner's Manual	* The brakepads have reached the wear limit. ▶ Consult a qualified specialist workshop.

Driving systems

Display messages	Possible causes/consequences and ▶ Solutions
ATTENTION ASSIST inoperative	* ATTENTION ASSIST is malfunctioning. ▶ Consult a qualified specialist workshop.
ATTENTION ASSIST: Take a break!	* ATTENTION ASSIST has detected fatigue or an increasing lack of concentration on the part of the driver (→ page 253). ▶ If necessary, take a break.

Display messages	Possible causes/consequences and ▶ Solutions
 ATTENTION ASSIST Microsleep Take a break!	* ATTENTION ASSIST has detected indicators of microsleep (→ page 253). ▶ It is recommended that you take a break immediately. ▶ Press the left-hand Touch Control and acknowledge the display message.
Driver camera view currently restricted See Owner's Manual	* The view of the driver camera is reduced. Possible causes: • Objects or stickers project into the driver camera's field of vision • The driver camera is dirty ▶ Keep the driver camera's field of vision free. ▶ Clean the driver camera if necessary.
Change steering wheel/seat position until 6 dots are visible on the upper edge of the screen	* The driver camera cannot capture your line of sight. ▶ Change the steering wheel and seat position until six dots are visible on the top edge of the screen.
Driver camera inoperative See Owner's Manual	* The driver camera is malfunctioning. ▶ Consult a qualified specialist workshop.

Display messages	Possible causes/consequences and ▶ Solutions
Active Emergency Stop Assist currently unavailable See Owner's Manual	* Active Emergency Stop Assist is temporarily unavailable. ▶ Consult a qualified specialist workshop.
Active Emergency Stop Assist inoperative	* Active Emergency Stop Assist is malfunctioning. ▶ Consult a qualified specialist workshop.
Beginning emergency stop	* Your hands are not on the steering wheel. An emergency stop is initiated (→ page 230). ▶ Put your hands back on the steering wheel. You can cancel the deceleration at any time by performing one of the following actions: • Steering • Braking or accelerating • Pressing a steering-wheel button • Operating Touch Control • Deactivating Active Distance Assist DISTRONIC
Limited availability of Active Parking Assist manoeuvring assistant See Owner's Manual	* Active Parking Assist's collision avoidance is temporarily unavailable or only partially available. ▶ Clean all sensors of the parking and camera system (→ page 465). ▶ If the display message still appears, consult a qualified specialist workshop.

Display messages	Possible causes/consequences and ▶ Solutions
PARKTRONIC and manoeuvring assistant not available at rear when towing a trailer	* When you establish the electrical connection to the trailer, the rear Parking Assist PARKTRONIC is unavailable. ▶ Press the left-hand Touch Control and acknowledge the display message.
PARKTRONIC inoperative See Owner's Manual	* Parking Assist PARKTRONIC is malfunctioning. ▶ Continue driving while paying attention to the vehicle's surroundings. Once the cause of the problem is no longer present, the system will be available again. or ▶ Stop the vehicle in accordance with the traffic conditions and restart the engine. ▶ If the display message still appears, consult a qualified specialist workshop.
 Fault Drive at max. 80 km/h	* AIRMATIC is functioning only to a limited extent. The vehicle's handling characteristics may be affected. ! **NOTE** The tyres on the front axle or the fenders could be damaged by large steering movements ▶ Avoid large steering movements while driving and listen for scraping sounds. ▶ If you hear scraping sounds, pull over and stop the vehicle in accordance with the traffic conditions, and set a higher vehicle level if possible. ▶ Drive in a manner appropriate for the current level, but do not exceed 80 km/h. ▶ Consult a qualified specialist workshop.

Display messages	Possible causes/consequences and ▶ Solutions
E-ACTIVE BODY CONTROL Function limited See Owner's Manual	* At least one main function of the E-ACTIVE BODY CONTROL system is malfunctioning. The system is outside the operating temperature range or the on-board electrical system voltage is too low. **! NOTE** The vehicle's suspension and damping behaviour is restricted. The vehicle body may tilt heavily to the side during cornering. ▶ Drive on carefully. ▶ Reduce speed considerably before taking a bend. ▶ Avoid sudden steering movements. ▶ Drive on carefully. ▶ Reduce speed considerably before taking a bend. ▶ Avoid sudden steering movements. Once the cause of the problem is no longer present, the system will be available again.
 Fault Drive at max. 80 km/h	* At least one main function of the E-ACTIVE BODY CONTROL system is malfunctioning. The system is deactivated. **! NOTE** The vehicle's suspension and damping behaviour has changed significantly, the vehicle body may tilt heavily to the side during cornering. ▶ Reduce vehicle speed. Drive on carefully.

Display messages	Possible causes/consequences and ▶ Solutions
	▶ Reduce the vehicle speed considerably before taking a curve. ▶ Avoid sudden steering movements. ▶ Continue driving carefully and do not exceed 80 km/h. ▶ If possible, stop the vehicle in accordance with the traffic conditions and switch the ignition off and on again. ▶ If the display message still appears, consult a qualified specialist workshop.
 Fault Stop	* There is a serious malfunction affecting the hydraulics of the E-ACTIVE BODY CONTROL system. The system is deactivated. ! **NOTE** The vehicle's driving characteristics have changed significantly. ▶ Stop the vehicle immediately in accordance with the traffic conditions. Do not continue driving. ▶ Stop the vehicle immediately in accordance with the traffic conditions. Do not continue driving. ▶ Consult a qualified specialist workshop.
 STOP Vehicle level too low	* You have pulled away despite the vehicle level being too low. ▶ Stop the vehicle in accordance with the traffic conditions. The vehicle will be raised to the selected vehicle level. ▶ Wait until the display message disappears before pulling away. If the display message does not disappear and a warning tone also sounds, AIRMATIC is malfunctioning:

Display messages	Possible causes/consequences and ▶ Solutions
	▶ Do not drive at speeds greater than 80 km/h and consult a qualified specialist workshop immediately. **!** **NOTE** The tyres on the front axle or the fenders could be damaged by large steering movements ▶ Avoid large steering movements while driving and listen for scraping sounds. ▶ If you hear scraping sounds, pull over and stop the vehicle in accordance with the traffic conditions, and set a higher vehicle level if possible. ▶ Set a higher vehicle level (⟶ page 234). Depending on the malfunction, the vehicle will be raised.
 Vehicle rising Please wait	* The vehicle level is too low. The vehicle will be raised to the selected vehicle level. ▶ Wait until the display message disappears before pulling away.
 Compressor is cooling	* Due to frequent level changes within a short space of time, the compressor first needs to cool down in order to set the selected vehicle level. ▶ Drive on in a manner appropriate for the current level. Make sure that there is sufficient ground clearance. When the compressor has cooled down, the vehicle will continue rising to the selected vehicle level.

Display messages	Possible causes/consequences and ▶ Solutions
Active Steering Assist currently unavailable See Owner's Manual	* Active Steering Assist is temporarily unavailable. The ambient conditions are outside the system limits (→ page 225). ▶ Drive on. As soon as the ambient conditions are within the system limits, the system will become available again. ▶ If necessary, clean the windscreen in the camera's field of vision. ▶ Check the tyre pressure if necessary.
Active Steering Assist inoperative	* Active Steering Assist is malfunctioning. Active Distance Assist DISTRONIC remains available. ▶ Consult a qualified specialist workshop.
	* Active Steering Assist has reached the system limits(→ page 225). You have not steered independently for a considerable period of time. ▶ Take over the steering and drive on in accordance with the traffic conditions.
Active Steering Assist currently unavailable due to multiple emergency stops	* Active Steering Assist is temporarily unavailable due to multiple emergency stops. ▶ Take over the steering and stop in accordance with the traffic conditions. ▶ Switch the ignition off and switch it back on. Active Steering Assist is available once more.
Active Lane Keeping Assist currently unavailable See Owner's Manual	* Active Lane Keeping Assist is temporarily unavailable. The ambient conditions are outside the system limits (→ page 263).

Display messages	Possible causes/consequences and ▶ Solutions
	▶ Drive on. As soon as the ambient conditions are within the system limits, the system will become available again.
Active Lane Keeping Assist inoperative	* Active Lane Keeping Assist is malfunctioning. ▶ Consult a qualified specialist workshop.
Active Stop-and-Go Assist currently unavailable see Owner's Manual	* Active Stop-and-Go Assist is temporarily unavailable. Active Distance Assist DISTRONIC and Active Steering Assist are still available. The ambient conditions are outside the system limits (→ page 231). ▶ Drive on. As soon as the ambient conditions are within the system limits, the system will become available again.
Active Stop-and-Go Assist inoperative See Owner's Manual	* Active Stop-and-Go Assist is malfunctioning. Active Stop-and-Go Assist is deactivated. Active Distance Assist DISTRONIC and Active Steering Assist are still available. ▶ Consult a qualified specialist workshop.
Blind Spot Assist currently unavailable See Owner's Manual	* Blind Spot Assist is temporarily unavailable. The system limits have been reached (→ page 260). ▶ Drive on. Once the cause of the problem is no longer present, the system will be available again. or

Display messages	Possible causes/consequences and ▶ Solutions
	▶ If the display message does not disappear, stop the vehicle in accordance with the traffic conditions and restart the engine.
Blind Spot Assist inoperative	* Blind Spot Assist is malfunctioning. ▶ Consult a qualified specialist workshop.
Blind Spot Assist not available when towing a trailer See Owner's Manual	* When you establish the electrical connection to the trailer, Blind Spot Assist is unavailable. ▶ Press the left-hand Touch Control and acknowledge the display message.
Active Blind Spot Assist currently unavailable See Owner's Manual	* Active Blind Spot Assist is temporarily unavailable. The system limits have been reached (→ page 260). ▶ Drive on. Once the cause of the problem is no longer present, the system will be available again. or ▶ If the display message does not disappear, stop the vehicle in accordance with the traffic conditions and restart the engine.
Active Blind Spot Assist inoperative	* Active Blind Spot Assist is malfunctioning. ▶ Consult a qualified specialist workshop.

Display messages	Possible causes/consequences and ▶ Solutions
Active Blind Spot Assist not available when towing a trailer See Owner's Manual	* When you establish the electrical connection to the trailer, Active Blind Spot Assist is unavailable. ▶ Press the left-hand Touch Control and acknowledge the display message.
Active Parking Assist and PARKTRONIC inoperative See Owner's Manual	* Active Parking Assist and Parking Assist PARKTRONIC are malfunctioning. ▶ Stop the vehicle in accordance with the traffic conditions and restart the engine. ▶ If the display message still appears, consult a qualified specialist workshop.
Traffic Sign Assist currently unavailable See Owner's Manual	* Traffic Sign Assist is temporarily unavailable. ▶ Drive on. Once the cause of the problem is no longer present, the system will be available again.
Traffic Sign Assist inoperative	* Traffic Sign Assist is malfunctioning. ▶ Stop the vehicle in accordance with the traffic conditions and restart the engine. ▶ If the display message still appears, consult a qualified specialist workshop.

Display messages	Possible causes/consequences and ▶ Solutions
 Currently unavailable Radar dirty	* The radar sensor system is malfunctioning. Possible causes: • dirt on the sensors • heavy rain or snow • extended country driving without other traffic, e.g. in the desert Driving systems and driving safety systems may be malfunctioning or temporarily unavailable. Once the cause of the problem is no longer present, the driving systems and driving safety systems will be available again. If the display message does not disappear: ▶ Stop the vehicle in accordance with the traffic conditions. ▶ Clean all sensors (→ page 465). ▶ Restart the engine.

Display messages	Possible causes/consequences and ▶ Solutions
 currently unavailable Camera dirty	* The camera view is restricted. Possible causes: • Dirt on the windscreen in the camera's field of vision • Heavy rain, snow or fog • Mist on the windscreen in front of the camera ⓘ Mist detected on the windscreen will be automatically removed using a built-in heater within approximately 12 minutes. Driving systems and driving safety systems may be malfunctioning or temporarily unavailable. Once the cause of the problem is no longer present, the driving systems and driving safety systems will be available again. If the display message does not disappear: ▶ Stop the vehicle in accordance with the traffic conditions. ▶ Clean the windscreen if necessary.
 Off	* The HOLD function is deactivated because the vehicle is slipping or a condition for activation is not fulfilled. ▶ Reactivate the HOLD function later or check the activation conditions for the HOLD function (→ page 232).

Display messages	Possible causes/consequences and ▶ Solutions
--- km/h	* Active Distance Assist DISTRONIC cannot be activated as not all activation conditions are fulfilled. ▶ Comply with the activation conditions of Active Distance Assist DISTRONIC (→ page 221).
suspended	* If you depress the accelerator pedal beyond the Active Distance Assist DISTRONIC setting, the system will switch to passive mode (→ page 219).
Off	* Active Distance Assist DISTRONIC was deactivated. If a warning tone also sounds, Active Distance Assist DISTRONIC has deactivated automatically (→ page 221).
Active Distance Assist currently unavailable See Owner's Manual	* Active Distance Assist DISTRONIC is temporarily unavailable. The ambient conditions are outside the system limits (→ page 219). ▶ Drive on. As soon as the ambient conditions are within the system limits, the system will become available again.
Active Distance Assist inoperative	* Active Distance Assist DISTRONIC is malfunctioning. Other driving systems and driving safety systems may also be malfunctioning.

Display messages	Possible causes/consequences and ▶ Solutions
	▶ Consult a qualified specialist workshop.
Active Distance Assist available again	* Active Distance Assist DISTRONIC is operational again and can be activated (→ page 221).
- - - km/h	* Cruise control cannot be activated as not all activation conditions are fulfilled. ▶ Observe the activation conditions for cruise control (→ page 217).
Cruise control inoperative	* Cruise control is malfunctioning. ▶ Consult a qualified specialist workshop.
Cruise control and Limiter inoperative	* Cruise control and the limiter are malfunctioning. ▶ Consult a qualified specialist workshop.
Cruise control off	* Cruise control has been deactivated. If there is an additional warning tone, cruise control has been deactivated automatically (→ page 215).
passive	* If you depress the accelerator pedal beyond the point of resistance (kickdown), the limiter will be switched to passive mode (→ page 217).

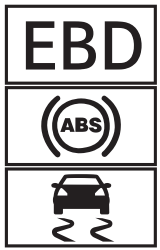
Display messages	Possible causes/consequences and ▶ Solutions
LIM - - - km/h	* The limiter cannot be activated as not all activation conditions have been fulfilled. ▶ Observe the activation conditions of the limiter (→ page 217).
Limiter inoperative	* The limiter is malfunctioning. ▶ Consult a qualified specialist workshop.
Speed limit (winter tyres) XXX km/h	* You have reached the maximum permissible stored speed for winter tyres. It is not possible to exceed this speed.
120 km/h! Maximum speed exceeded	* You have exceeded the maximum permissible speed (for certain countries only). ▶ Drive more slowly.

Driving safety systems

Display messages	Possible causes/consequences and ▶ Solutions
currently unavailable See Owner's Manual	* ABS and ESP® are temporarily unavailable. Other driving systems and driving safety systems (e.g. BAS) may also be temporarily unavailable. The brake system will continue to operate normally. Braking distance may increase in an emergency braking situation. **⚠ WARNING** Risk of skidding if ABS and ESP® are malfunctioning The wheels may block during braking and ESP® does not perform any vehicle stabilization. The steerability and braking characteristics are heavily impaired and the braking distance may increase. In addition, other driving safety systems are switched off. ▶ Drive on carefully. ▶ Have ABS and ESP® checked immediately at a qualified specialist workshop. ▶ Drive carefully on a suitable stretch of road, making slight steering movements at a speed above 30 km/h. ▶ If the display message does not disappear, consult a qualified specialist workshop immediately. Drive carefully.

Display messages	Possible causes/consequences and ▶ Solutions
inoperative See Owner's Manual	* ABS and ESP® are malfunctioning. Other driving systems and driving safety systems (e.g. BAS) may also be malfunctioning. The brake system will continue to operate normally. Braking distance may increase in an emergency braking situation. ⚠ **WARNING** Risk of skidding if ABS and ESP® are malfunctioning The wheels may block during braking and ESP® does not perform any vehicle stabilization. The steerability and braking characteristics are heavily impaired and the braking distance may increase. In addition, other driving safety systems are switched off. ▶ Drive on carefully. ▶ Have ABS and ESP® checked immediately at a qualified specialist workshop.
currently unavailable See Owner's Manual	* ESP® is temporarily unavailable. Other driving systems and driving safety systems (e.g. BAS) may also be malfunctioning. ⚠ **WARNING** Risk of skidding if ESP® is malfunctioning If ESP® is malfunctioning, ESP® cannot carry out vehicle stabilisation. In addition, other driving safety systems are switched off. ▶ Drive on carefully.

Display messages	Possible causes/consequences and ▶ Solutions
	▶ Have ESP® checked at a qualified specialist workshop. ▶ Drive carefully on a suitable stretch of road, making slight steering movements at a speed above 30 km/h. ▶ If the display message does not disappear, consult a qualified specialist workshop immediately. Drive carefully.
 inoperative See Owner's Manual	* ESP® is malfunctioning. Other driving systems and driving safety systems (e.g. the BAS) may also be malfunctioning. The brake system will continue to operate normally. Braking distance may increase in an emergency braking situation. ⚠ **WARNING** Risk of skidding if ESP® is malfunctioning If ESP® is malfunctioning, ESP® cannot carry out vehicle stabilisation. In addition, other driving safety systems are switched off. ▶ Drive on carefully. ▶ Have ESP® checked at a qualified specialist workshop.

Display messages	Possible causes/consequences and ▶ Solutions
 inoperative See Owner's Manual	* EBD, ABS and ESP® are malfunctioning. Other driving systems and driving safety systems (e.g. BAS) may also be malfunctioning. ⚠ **WARNING** Risk of skidding if EBD, ABS and ESP® are malfunctioning The wheels may block during braking and ESP® does not perform any vehicle stabilization. The steerability and braking characteristics are heavily impaired and the braking distance may increase. In addition, other driving safety systems are switched off. ▶ Drive on carefully. ▶ Have the brake system checked immediately at a qualified specialist workshop.
Active Brake Assist Functions currently limited See Owner's Manual	* **Vehicles with the Driving Assistance Package:** Active Brake Assist with cross-traffic function, Evasive Steering Assist or PRE-SAFE® PLUS are temporarily unavailable or only partially available. **Vehicles without the Driving Assistance Package:** Active Brake Assist is temporarily unavailable or only partially available. The ambient conditions are outside the system limits (→ page 208). ▶ Drive on. As soon as the ambient conditions are within the system limits, the system will become available again.

Display messages	Possible causes/consequences and ▶ Solutions
Active Brake Assist Functions limited See Owner's Manual	* **Vehicles with Driving Assistance Package:** Active Brake Assist with cross-traffic function, Evasive Steering Assist or PRE-SAFE® PLUS is malfunctioning. **Vehicles without Driving Assistance Package:** Active Brake Assist is malfunctioning. ▶ Consult a qualified specialist workshop.

Mercedes me connect

Display messages	Possible causes/consequences and ▶ Solutions
Device detected at diagnostics connection See Owner's Manual	* The vehicle functions for fault detection are restricted. At least one of the main functions of the Mercedes me connect system is malfunctioning. ▶ Observe the notes on the diagnostics connection (→ page 29). ▶ Consult a qualified specialist workshop.
 Inoperative	* At least one of the main functions of the Mercedes me connect system or of the SOS emergency call system is malfunctioning. ▶ Consult a qualified specialist workshop.

Battery

Display messages	Possible causes/consequences and ▶ Solutions
 12 V on-board electrical system Visit workshop	* The 12 V on-board electrical system is malfunctioning. ▶ Consult a qualified specialist workshop immediately.
 Stop vehicle See Owner's Manual	* The battery is no longer being charged and the charge level is too low. **NOTE** Possible engine damage if you continue driving ▶ Do not continue driving under any circumstances. ▶ Consult a qualified specialist workshop. ▶ Stop the vehicle immediately in accordance with the traffic conditions. Do not continue driving. ▶ Switch off the engine. ▶ Consult a qualified specialist workshop.

Display messages	Possible causes/consequences and ▶ Solutions
 Switch on the engine to charge the 12 V battery	* The engine is off and the charge level of the 12 V battery is too low. ▶ Switch off electrical consumers that are not required. To charge the 12 V battery: ▶ Leave the engine running for a few minutes, or drive an extended distance.
 Stop the vehicle Leave the engine running to charge the 12 V battery	* The battery charge level is too low. ▶ Stop the vehicle immediately in accordance with the traffic conditions. Do not continue driving. ▶ Leave the engine running. ▶ Wait until the display message disappears before pulling away. ▶ **If the display message does not disappear:** consult a qualified specialist workshop.
 Stop vehicle See Owner's Manual	* The 48 V on-board electrical system is malfunctioning. ▶ Stop the vehicle immediately in accordance with the traffic conditions. Do not continue driving. ▶ Switch off the engine. ▶ Consult a qualified specialist workshop.

Display messages	Possible causes/consequences and ▶ Solutions
 48 V battery See Owner's Manual	* The 48 V on-board electrical system has function restrictions. Convenience functions may be restricted. ▶ Consult a qualified specialist workshop immediately.
 Please wait 48 V battery charging	* The 48 V battery is discharged. You have switched on the ignition while the 12 V battery was being charged with a suitable charger or while another vehicle was providing starting assistance. The discharged 48 V battery is charged automatically via the voltage converter. After a few minutes, the driver's display will show the display message Motor can be started again. ▶ Start the engine. ▶ Drive the vehicle for a while to charge the 12 V battery and the 48 V battery after disconnecting the charger from the vehicle. If the Motor can be started again display message does not appear after a few minutes: ▶ Try to start the engine again. ▶ If the engine does not start, consult a qualified specialist workshop.
Cannot start engine See Owner's Manual	* The charge level of the 48 V battery is too low. You can no longer start the engine. ▶ Switch off electrical consumers that are not required.

Display messages	Possible causes/consequences and ▶ Solutions
	▶ Connect a suitable charger approved for Mercedes-Benz with sufficient charge output to the jump-start connection point of the 12 V battery (→ page 480). The 48 V battery is charged via the voltage converter in the vehicle.
Motor can be started again	* The 48 V battery has been charged automatically via the voltage converter. ▶ Start the engine and drive the vehicle for a while to charge the 12 V battery and the 48 V battery.

Tyre pressure monitor

Display messages	Possible causes/consequences and ▶ Solutions
Tyre press. monitor currently unavailable	* There is interference from a powerful radio signal source. As a result, no signals from the tyre pressure sensors are being received. The tyre pressure monitor is temporarily unavailable. ▶ Drive on. The tyre pressure monitor will restart automatically as soon as the cause has been rectified.
Tyre press. monitor inoperative	* The tyre pressure monitor is malfunctioning. ⚠ **WARNING** There is a risk of an accident if the tyre pressure monitoring system is malfunctioning The tyre pressure monitoring system cannot issue a warning if there is pressure loss in one or more of the tyres. Tyres with insufficient tyre pressure may impair the driving characteristics as well as steering and braking.

Display messages	Possible causes/consequences and ▶ Solutions
	▶ Have the tyre pressure monitoring system checked at a qualified specialist workshop.
Tyre press. monitor inoperative No wheel sensors	* The wheels fitted do not have suitable tyre pressure sensors. The tyre pressure monitor is deactivated. ▶ Fit wheels with suitable tyre pressure sensors.
 Wheel sensor(s) missing	* There is no signal from the tyre pressure sensor of one or more wheels. No pressure value is displayed for the affected tyre. ▶ Have the faulty tyre pressure sensor replaced at a qualified specialist workshop.
 Check tyre(s)	* The tyre pressure in one or more tyres has dropped significantly. The wheel position will be displayed. ⚠ **WARNING** Risk of an accident due to insufficient tyre pressure • The tyres can burst. • The tyres can wear excessively and/or unevenly. • The driving characteristics as well as the steering and braking may be greatly impaired. You could then lose control of the vehicle. ▶ Observe the recommended tyre pressures. ▶ Adjust the tyre pressure if necessary. ▶ Stop the vehicle in accordance with the traffic conditions.

Display messages	Possible causes/consequences and ▶ Solutions
	▶ Check the tyre pressure (→ page 492) and the tyres.
Rectify tyre pressure	* The tyre pressure is too low in at least one of the tyres, or the difference in tyre pressure between the individual wheels is too great. ▶ Check the tyre pressure and add air, if necessary. ▶ When the tyre pressure is correct, restart the tyre pressure monitoring system (→ page 495).
Warning tyre defect	* The tyre pressure in one or more tyres has dropped suddenly. The wheel position will be displayed. ⚠ **WARNING** Risk of an accident from driving with a flat tyre • The tyres can overheat and cause a fire. • The driving characteristics as well as the steering and braking may be greatly impaired. You could then lose control of the vehicle. ▶ Do not drive on with a flat tyre. ▶ Observe the notes on flat tyres. Notes on flat tyres (→ page 470). ▶ Stop the vehicle in accordance with the traffic conditions. ▶ Check the tyres.
Tyre(s) overheated	* At least one tyre is overheating. The affected tyres are displayed in red. At temperatures close to the limit value, the tyres are displayed in yellow.

Display messages	Possible causes/consequences and ▶ Solutions
	⚠ **WARNING** Risk of an accident from driving with overheated tyres Overheated tyres can burst. ▶ Reduce speed so that the tyres cool down.
Reduce speed	* At least one tyre is overheating. The affected tyres are displayed in red. At temperatures close to the limit value, the tyres are displayed in yellow. ⚠ **WARNING** Risk of an accident from driving with overheated tyres Overheated tyres can burst. ▶ Reduce speed so that the tyres cool down.

Exhaust gas aftertreatment

Display messages	Possible causes/consequences and ▶ Solutions
 Refill AdBlue See Owner's Manual	* The AdBlue® level has fallen below the reserve range. ▶ Top up AdBlue® immediately (→ page 194).

Display messages	Possible causes/consequences and ▶ Solutions
 Top up AdBlue Emergency op. in XXX km See Owner's Manual	* The low AdBlue® level will lead to limited performance after the remaining distance displayed has been driven. ▶ Top up AdBlue® immediately (→ page 194).
 XX,X l Top up AdBlue Emerg. op.: max. XXX km/h Start not poss. in XXX km	* The low AdBlue® level will lead to limited performance starting from the speed displayed. After the remaining distance displayed has been covered, it will no longer be possible to start the engine. ▶ Add at least the amount of AdBlue® displayed (→ page 194).
 XX,X l Top up AdBlue Switch on ignition, wait 60 sec. or eng. start not poss.	* The AdBlue® tank is empty. You can no longer start the engine. ▶ Add at least the amount of AdBlue® displayed (→ page 194). ▶ Switch on the ignition and wait for approximately 60 seconds. ▶ Start the engine.

Display messages	Possible causes/consequences and ▶ Solutions
 AdBlue system fault See Owner's Manual	* The AdBlue® system is malfunctioning. ▶ Consult a qualified specialist workshop immediately.
 AdBlue system malfunction Emergency op. in XXX km See Owner's Manual	* The AdBlue® system is malfunctioning. Performance will be reduced once the remaining distance displayed has been covered. ▶ Consult a qualified specialist workshop immediately.
 AdBlue system malfunction Emerg. op.: max. XXX km/h Start not poss. in XXX km	* Power restriction due to the AdBlue® system fault. After the distance displayed has been covered, it will no longer be possible to start the engine. ▶ Consult a qualified specialist workshop immediately.

Display messages	Possible causes/consequences and ▶ Solutions
 AdBlue system fault Engine start not possible	* The AdBlue® system is malfunctioning. You can no longer start the engine. ▶ Consult a qualified specialist workshop immediately.

Engine oil

Display messages	Possible causes/consequences and ▶ Solutions
 Add 1 litre engine oil when next refuelling	* Display message only for certain engines: The engine oil level has dropped to the minimum level. **! NOTE** Engine damage caused by driving with insufficient engine oil ▶ Avoid long journeys with insufficient engine oil. ▶ When next refuelling, add 1 litre of engine oil (→ page 459). Notes on engine oil (→ page 569).

Display messages	Possible causes/consequences and ▶ Solutions
 Engine oil level Reduce oil level	* Display message only for certain engines: The engine oil level is too high. **!** **NOTE** Engine damage caused by driving with excess engine oil ▶ Avoid long journeys with excess engine oil. ▶ Consult a qualified specialist workshop immediately and have the engine oil level reduced.
 Engine oil level Stop vehicle Switch engine off	* Display message only for certain engines: The engine oil level is too low. **!** **NOTE** Engine damage caused by driving with insufficient engine oil ▶ Avoid long journeys with insufficient engine oil. ▶ Stop the vehicle immediately in accordance with the traffic conditions. Do not continue driving. ▶ Switch off the engine. ▶ Add 1 l of engine oil (→ page 459). ▶ Check the engine oil level. Notes on engine oil (→ page 569).

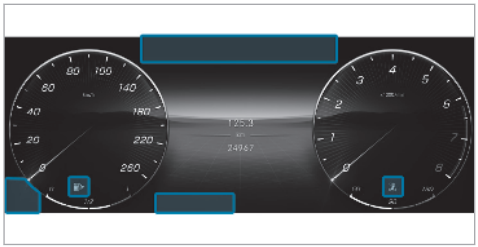
Display messages	Possible causes/consequences and ▶ Solutions
 Engine oil pressure Stop Switch off engine	* Display message only for certain engines: The oil pressure is too low. **! NOTE** Engine damage caused by driving with insufficient oil pressure ▶ Avoid driving with insufficient oil pressure. ▶ Stop the vehicle immediately in accordance with the traffic conditions. Do not continue driving. ▶ Consult a qualified specialist workshop.
 Engine oil level cannot be measured	* The electrical connection to the oil level sensor has been interrupted or the oil level sensor is faulty. ▶ Consult a qualified specialist workshop.

Warning and indicator lamps

Overview of indicator and warning lamps

Some systems will perform a self-test when the ignition is switched on. Some indicator and warning lamps may briefly light up or flash. This behaviour is non-critical. These indicator and warning lamps indicate a malfunction only if they light up or flash after the engine has been started or during a journey.

Driver's display



Indicator and warning lamps:

- Restraint system (→ page 636)
- Seat belt (→ page 636)
- Trailer hitch (→ page 637)
- Electric power steering (yellow) (→ page 637)
- Electric power steering (red) (→ page 637)
- Rear axle steering (yellow) (→ page 637)
- Rear axle steering (red) (→ page 637)
- Coolant temperature (→ page 640)
- Engine diagnostics (→ page 640)
- Preglow
- Electrical fault (→ page 640)
- Reserve fuel with fuel filler flap location indicator (→ page 640)
- Electric parking brake (red) (→ page 643)
- Electric parking brake (yellow) (→ page 643)
- Brakes (yellow) (→ page 643)
- Brakes (red) (→ page 643)
- Distance warning (→ page 645)
- AIRMATIC / E-ACTIVE BODY CONTROL (→ page 645)
- ABS (→ page 646)
- ESP®(→ page 646)
- ESP® OFF (→ page 646)
- Tyre pressure monitor (→ page 649)
- Standing lights (→ page 143)
- Low beam (→ page 143)
- High beam (→ page 145)
- Turn signal lights (→ page 145)
- Rear fog light (→ page 143)

Occupant safety

Warning/indicator lamp	Possible causes/consequences and ▶ Solutions
Restraint system warning lamp	The red restraint system warning lamp is lit while the engine is running. *The restraint system is malfunctioning (→ page 36). ⚠ **WARNING** Risk of injury due to malfunctions in the restraint system Components in the restraint system may be activated unintentionally or not deploy as intended in an accident. ▶ Have the restraint system checked and repaired immediately at a qualified specialist workshop. ▶ Drive on carefully. ▶ Note the messages on the driver's display. ▶ Consult a qualified specialist workshop immediately.
Seat belt warning lamp flashes	The red seat belt warning lamp flashes and an intermittent warning tone sounds. *The driver or front passenger has not fastened their seat belt while the vehicle is in motion. ▶ Fasten your seat belt(→ page 40). *There are objects on the front passenger seat. ▶ Remove the objects from the front passenger seat.

Warning/indicator lamp	Possible causes/consequences and ▶ Solutions
Seat belt warning lamp lights up	The red seat belt warning lamp will light up once the engine has started. In addition, a warning tone may sound. *The seat belt warning lamp reminds the driver and front passenger to fasten their seat belts. ▶ Fasten your seat belt (→ page 40). If you have placed objects on the front passenger seat, the seat belt warning lamp may remain lit.

Vehicle

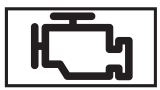
Warning/indicator lamp	Possible causes/consequences and ▶ Solutions
Trailer tow hitch warning lamp	The red trailer hitch warning lamp is lit. *The trailer hitch is not operational or is swivelling. ⚠ **WARNING** Risk of an accident if the ball neck is not locked The trailer may become detached. ▶ Stop the vehicle immediately in accordance with the traffic conditions. Do not continue driving. ▶ Uncouple the trailer and secure it against rolling away. ▶ Initiate a new swivel movement and do not re-couple the trailer until the warning/indicator lamp goes out. ▶ Note the messages on the driver's display.

Warning/indicator lamp	Possible causes/consequences and ▶ Solutions
	If the trailer hitch is swivelling: ▶ Wait until the ball neck has reached the operational position.
 Warning lamp for electric power steering	The yellow electric power steering warning lamp is lit while the engine is running. * The power-assisted steering or the steering itself is malfunctioning. ▶ Note the messages on the driver's display.
 Warning lamp for electric power steering	The red electric power steering warning lamp is lit while the engine is running. *The power-assisted steering or the steering itself is malfunctioning. ⚠ **WARNING** Risk of accident if steering capability is impaired If the steering does not function as intended, the vehicle's operating safety is jeopardised. ▶ Pull over and stop the vehicle safely as soon as possible, paying attention to road and traffic conditions. Do not continue driving under any circumstances. ▶ Consult a qualified specialist workshop. ▶ Note the messages on the driver's display.

Warning/indicator lamp	Possible causes/consequences and ▶ Solutions
Rear axle steering warning lamp	The yellow rear axle steering warning lamp is lit while the engine is running. * The rear axle steering is malfunctioning. ▶ Note the messages on the driver's display.
Rear axle steering warning lamp	The red rear axle steering warning lamp is lit while the engine is running. *The rear axle steering is malfunctioning. ⚠ **WARNING** Risk of accident if steering capability is impaired If the steering does not function as intended, the vehicle's operating safety is jeopardised. ▶ Pull over and stop the vehicle safely as soon as possible, paying attention to road and traffic conditions. Do not continue driving under any circumstances. ▶ Consult a qualified specialist workshop. ▶ Note the messages on the driver's display.

Engine

Warning/indicator lamp	Possible causes/consequences and ▶ Solutions
Coolant warning lamp	The red coolant warning lamp is lit while the engine is running. *Possible causes: • The temperature sensor is malfunctioning • The coolant level is too low • The air supply to the radiator is obstructed • The radiator fan is faulty If there is an additional warning tone, the coolant temperature has exceeded 120 °C. ⚠ **WARNING** Danger of burns when opening the bonnet If you open the engine bonnet when the engine has overheated or during a fire in the engine compartment, you could come into contact with hot gases or other escaping operating fluids. ▶ Before opening the bonnet, allow the engine to cool down. ▶ In the event of a fire in the engine compartment, keep the engine bonnet closed and call the fire service. ▶ Stop the vehicle immediately in accordance with the traffic conditions and switch off the engine. Do not continue driving. ▶ Note the messages on the driver's display. If the coolant temperature display is at the lower end of the temperature scale:

Warning/indicator lamp	Possible causes/consequences and ▶ Solutions
	▶ Consult a qualified specialist workshop. or ▶ Exit the vehicle and keep a safe distance from it until the engine has cooled down. ▶ Check the coolant level (→ page 460). ▶ Make sure that the air supply to the radiator is not obstructed. ▶ Avoiding high loads on the engine, drive to the nearest qualified specialist workshop. In doing so, ensure that the coolant temperature display remains below 120 °C.
 Engine diagnosis warning lamp	The yellow engine diagnostics warning lamp is lit while the engine is running. *A malfunction has occurred in the engine, the exhaust system or the fuel system. The emissions limit value may have been exceeded and the engine may be running in emergency operation mode. ▶ Have the vehicle checked as soon as possible at a qualified specialist workshop. ***Vehicles with a diesel engine:** the fuel tank may have been run dry. ▶ Start the engine three to four times after refuelling. If the yellow engine diagnosis warning lamp goes out, emergency operation mode is cancelled. The vehicle need not be checked.

Warning/indicator lamp	Possible causes/consequences and ▶ Solutions
Electrical fault warning lamp	The red electrical fault warning lamp is lit. * There is a fault in the electrics. ▶ Note the messages on the driver's display.
Fuel reserve warning lamp lights up	The yellow fuel reserve warning lamp lights up while the engine is running. * The fuel supply has dropped into the reserve range. ▶ Refuel.

Brakes

Warning/indicator lamp	Possible causes/consequences and ▶ Solutions
 Electric parking brake indicator lamp (red) The electric parking brake (yellow) indicator lamp	The red electric parking brake indicator lamp flashes or is lit. The yellow electric parking brake indicator lamp also lights up in the event of a malfunction. * ▶ Note the messages on the driver's display.
 Brake system warning lamp (yellow)	The yellow brake system warning lamp is lit while the engine is running. * ⚠ **WARNING** Risk of an accident due to a brake system malfunction If the brake system is malfunctioning, braking characteristics may be impaired. ▶ Drive on carefully. ▶ Have the brake system checked immediately at a qualified specialist workshop. ▶ Adjust your speed and drive on carefully, leaving a suitable distance to the vehicle in front. ▶ If the driver display shows a display message, observe it.

Warning/indicator lamp	Possible causes/consequences and ▶ Solutions
	▶ Consult a qualified specialist workshop.
Brake system warning lamp (red)	The red brake system warning lamp is lit while the engine is running. *Possible causes: • The brake force boosting is malfunctioning and the braking characteristics may be affected. • There is insufficient brake fluid in the brake fluid reservoir. ▶ Note the messages on the driver's display. **⚠ WARNING** Risk of accident and injury if brake force boosting is malfunctioning If brake force boosting is malfunctioning, increased brake pedal force may be necessary for braking. The braking characteristics may be impaired. The braking distance can increase in emergency braking situations. ▶ Stop in a safe location immediately. Do not continue driving! ▶ Consult a qualified specialist workshop. **⚠ WARNING** Risk of an accident due to low brake fluid level If the brake fluid level is too low, the braking effect and the braking characteristics may be impaired. ▶ Stop the vehicle as soon as possible, paying attention to road and traffic conditions. Do not continue driving. ▶ Consult a qualified specialist workshop.

Warning/indicator lamp	Possible causes/consequences and ▶ Solutions
	▶ Do not top up the brake fluid.

Driving systems

Warning/indicator lamp	Possible causes/consequences and ▶ Solutions
Warning lamp for distance warning function	The red distance warning lamp lights up while the vehicle is in motion. * The distance to the vehicle in front is too small for the speed selected. If there is an additional warning tone, you are approaching an obstacle at too high a speed. ▶ Be prepared to brake immediately. ▶ Increase the distance. Function of Active Brake Assist (→ page 208).
Suspension warning lamp	The yellow AIRMATIC/E-ACTIVE BODY CONTROL warning lamp is lit. * A fault has occurred in the AIRMATIC/E-ACTIVE BODY CONTROL. ▶ Note the messages on the driver's display.

Warning/indicator lamp	Possible causes/consequences and ▶ Solutions
Suspension warning lamp	The red E-ACTIVE BODY CONTROL warning lamp is on. *There is a fault in the E-ACTIVE BODY CONTROL. **! NOTE** The vehicle's driving characteristics have changed significantly. ▶ Stop the vehicle immediately in accordance with the traffic conditions. Do not continue driving. ▶ Note the messages on the driver's display. ▶ Stop the vehicle immediately in accordance with the traffic conditions. Do not continue driving. ▶ Consult a qualified specialist workshop.

Driving safety systems

Warning/indicator lamp	Possible causes/consequences and ▶ Solutions
ABS warning lamp	The yellow ABS warning lamp is lit while the engine is running. *ABS is malfunctioning. If there is an additional warning tone, EBD is malfunctioning. Other driving systems and driving safety systems may also be malfunctioning. ▶ Note the messages on the driver's display.

Warning/indicator lamp	Possible causes/consequences and ▶ Solutions
	⚠ **WARNING** There is a risk of skidding if EBD or ABS is malfunctioning The wheels may lock during braking. The steerability and braking characteristics are heavily impaired and the braking distance may increase. In addition, other driving safety systems are switched off. ▶ Drive on carefully. ▶ Have the brake system checked immediately at a qualified specialist workshop.
 ESP® warning lamp flashes	The yellow ESP® warning lamp flashes while the vehicle is in motion. * One or more wheels has reached its grip limit (→ page 205). ▶ Adapt your driving style to suit the road and weather conditions.
 ESP® warning lamp lights up	The yellow ESP® warning lamp is lit while the engine is running. *ESP® is malfunctioning. Other driving systems and driving safety systems (e.g. BAS) may also be malfunctioning. ▶ Note the messages on the driver's display. ⚠ **WARNING** Risk of skidding if ESP® is malfunctioning If ESP® is malfunctioning, ESP® cannot carry out vehicle stabilisation. In addition, other driving safety systems are switched off.

Warning/indicator lamp	Possible causes/consequences and ▶ Solutions
	▶ Drive on carefully. ▶ Have ESP® checked at a qualified specialist workshop.
  ESP® OFF warning lamp	The yellow ESP® OFF warning lamp is lit while the engine is running. *ESP® is deactivated. Other driving systems and driving safety systems may also be inoperative. ⚠ **WARNING** Risk of skidding when driving with ESP® deactivated ESP® does not act to stabilise the vehicle. The availability of further driving safety systems is also limited. ▶ Drive on carefully. ▶ Deactivate ESP® only for as long as the situation requires. If ESP® cannot be activated, ESP® is malfunctioning. ▶ Have ESP® checked immediately at a qualified specialist workshop. ▶ Observe the notes on deactivating ESP® (→ page 205).

Tyre pressure monitor

Warning/indicator lamp	Possible causes/consequences and ▶ Solutions
Tyre pressure monitoring system warning lamp flashes	The yellow tyre pressure monitor warning lamp (pressure loss/malfunction) flashes for approximately one minute and then remains lit. *The tyre pressure monitor is malfunctioning. ⚠ **WARNING** There is a risk of an accident if the tyre pressure monitoring system is malfunctioning The tyre pressure monitoring system cannot issue a warning if there is pressure loss in one or more of the tyres. Tyres with insufficient tyre pressure may impair the driving characteristics as well as steering and braking. ▶ Have the tyre pressure monitoring system checked at a qualified specialist workshop.
Tyre pressure monitoring system warning lamp lights up	The yellow tyre pressure monitoring system warning lamp (pressure loss/malfunction) is lit. *The tyre pressure monitoring system has detected tyre pressure loss in at least one of the tyres. ⚠ **WARNING** Risk of an accident due to insufficient tyre pressure • The tyres can burst. • The tyres can wear excessively and/or unevenly. • The driving characteristics as well as the steering and braking may be greatly impaired. You could then lose control of the vehicle. ▶ Observe the recommended tyre pressures.

Warning/indicator lamp	Possible causes/consequences and ▶ Solutions
	▶ Adjust the tyre pressure if necessary. ▶ Stop the vehicle in accordance with the traffic conditions. ▶ Check the tyre pressure and the tyres.

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Internet
Further information about Mercedes-Benz vehicles and about Mercedes-Benz AG can be found on the following websites:

https://www.mercedes-benz.com

https://www.daimler.com

Documentation team
You are welcome to forward any queries or suggestions you may have regarding this Owner's Manual to the technical documentation team at the following address:

Mercedes-Benz AG, HPC: CAC, Customer Service, 70546 Stuttgart, Germany

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Vehicle manufacturer
Mercedes-Benz AG

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Germany

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Vehicle document wallet

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