

Functional description
FBSB802 BCM2 B8 315 MHz

Technical Data

LF-Part

BCM2 Audi B8

Software: Version: 2.33
Hardware: Version: H36

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Erstfassung :	19.01.2007
Änderungsstand :	19.01.2007
Version :	01

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Functional description:

The LF-Transmitter in the BCM2 is part of a driving authorisation system with the following function:

Car access by sending LF-Signals for Passive Entry and Passive Start function.

General Technical Data:

Temperature range:

Working temperature: -40 ...+85 ° C

Data of LF-Part

Kind of data transmission: simplex

Transmitter:

Center frequency: 21,85 kHz

Transmitter power < 6mA/m @ 3m distance(free space)

Modulation: BPSK-signal (phase shift keying)

Modulation content: digital data

Data rate: 5,4 kBit/s ; 2,7 kBit/s

Data content: Wake Pattern 4 Byte (5,4 Kbit/s);
Data 19Byte (2,7kbit/s)
Field no Modulation (3 to 6 times 3ms)
WP-Field (0 to 4 times 2Byte with 5,4kBit/s)

Antenna: Serial capacity and inductivity resonance circuit
C = 150nF, L = 160µH, Q ≈ 80
3 (to 5) Antenna

Antenna connection: twisted pair

Antenna position in the car: Rear antenna: trunk border (inside car)
Inside antenna: center console
Side antenna: inside door covering

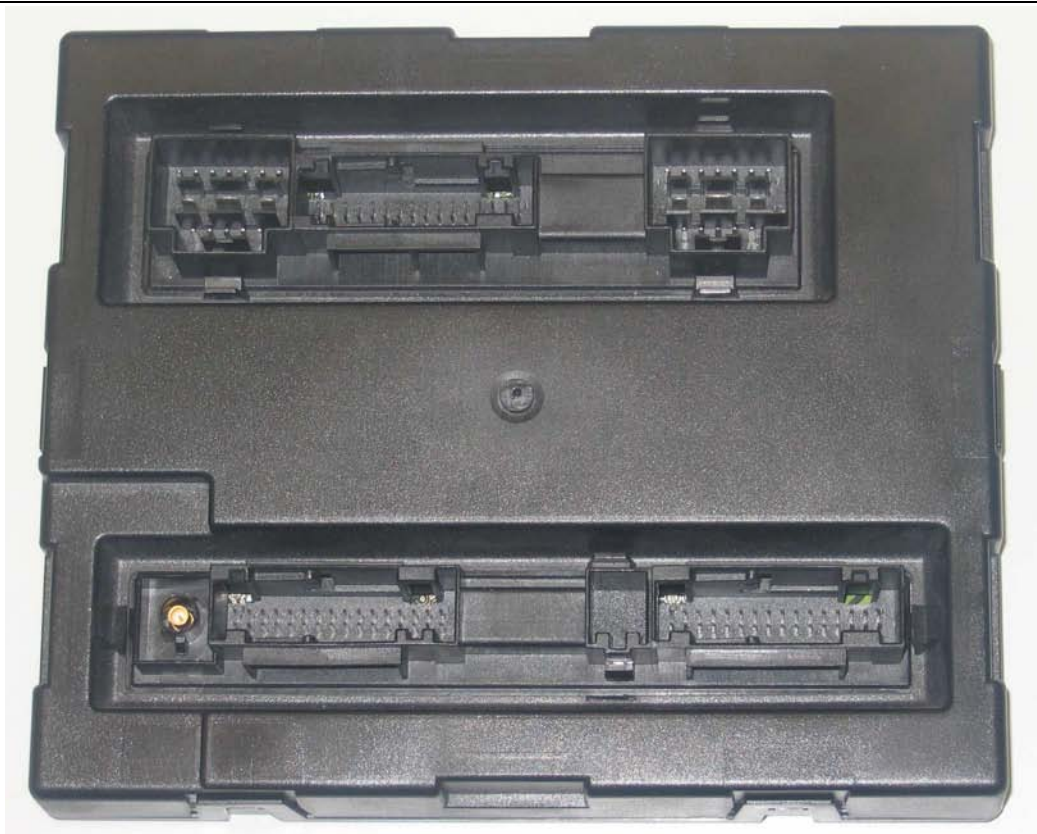
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	Datum	19.01.2007	Seite	Seite 2 von 3

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Picture 1: BCM2

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Technical Data

RF-Part

BCM2 Audi B8

Software: Version: 2.33
Hardware: Version: H36

Bearbeiter :	R.Obergfell
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Erstfassung :	15.01.2007
Änderungsstand :	15.01.2007
Version :	01

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Functional description:

The Receiver in the BCM2 is part of a driving authorisation system with the following function:
Remote control for car access by receiving RF- Signals and optional with Passive Entry function

General Technical Data:

Temperature range:

Working temperature: -40 ...+85 ° C

Data of RF-Part

Kind of data transmission: simplex

Receiver:

Center frequency: 315,00 MHz
433,92 MHz
868,30 MHz

3 dB bandwidth >300 kHz

Frequency tolerance: +/- 80 ppm
(production, aging, temperature)

Sensitivity typ. -95 dBm @315,00 MHz
typ. -95 dBm @433,92 MHz
typ. -95 dBm @868,30 MHz

Modulation: 2-FSK (frequency shift keying)

Frequency deviation: +/- 16 kHz @ 315 MHz (+/-50%)
+/- 16 kHz @ 433,92 MHz (+/-50%)
+/- 25 kHz @ 868,3 MHz (+/-50%)

Modulation content: digital data
Data rate: 1,3 kBit/s ; 10 kBit/s
Coding: Manchester

Data content: Remote control value (1,3 Kbit/s):
130 Zero-Bits preamble + 96 data bits

Antenna: Window antenna connected with a coax cable

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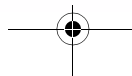


Picture 1: BCM2 with RF-connector down to the left

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Audi A5
Owner's Manual

Audi A5 englisch 04.07




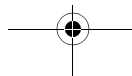
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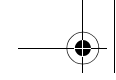
AUDI AG works continuously to develop and further improve all models. You will appreciate that we must therefore reserve the right to alter any part of the vehicle and its equipment or technical specifications at any time. No legal commitment can therefore be implied by the information, illustrations or descriptions in this Manual.

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Date of publication: 09.03.07

 **For the sake of the environment**
This paper was bleached without the use of chlorine.





Foreword

Thank you for choosing the Audi A5.

The new Audi A5 combines the latest technology with numerous features for your comfort and convenience. To help you get the best out of these features in everyday use, we recommend that you read this Manual carefully so you can quickly become familiar with your vehicle in detail.

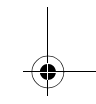
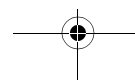
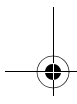
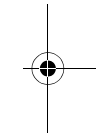
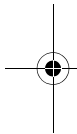
As well as information on how to use the controls and equipment, the Owner's Manual contains important notes on care and maintenance. These are relevant to your safety and will help preserve your car's value. The Manual also offers useful driving tips and advice, together with some suggestions on how to drive your car with minimum impact on the environment.

In addition to this Owner's Manual, the Service Wallet also includes the Service Schedule for your vehicle. This booklet contains important information on Audi service requirements and lists the vehicle's fuel consumption figures. The Service Wallet also includes operating manuals for optional on-board systems such as the radio, navigation and telephone. We recommend that you keep the Service Wallet in the car at all times.

Should you have any further questions regarding your car or if you suspect that your owner's literature is not complete, please contact your Audi dealer or importer. They are always glad to answer your queries and note any suggestions you may have.

We wish you safe and enjoyable motoring with your Audi A5.

AUDI AG



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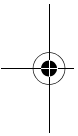
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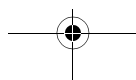
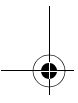
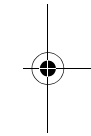
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Notes on this Owner's Manual

This Owner's Manual contains important information, tips, suggestions and warnings.

Please ensure that this Owner's Manual is always kept in the vehicle. It should always be available to anyone else driving the vehicle, i.e. anyone renting, borrowing or buying the vehicle from you.

This manual describes **the equipment available for the vehicle at the time of going to print**. Some of the equipment described here will not be available until a later date, or may only be available in certain markets.

Some sections of this Owner's Manual do not apply to all vehicles. If this is the case, a text at the start of the section indicates which vehicles it applies to, e. g. "Applies to vehicles: with auxiliary heater". This optional equipment is also marked with an asterisk "*".

Illustrations are intended as a general guide, and may vary from the equipment fitted in your vehicle in some details.

At the beginning of this Owner's Manual, you will find a **table of contents** showing all the items described in this manual in the order in which they appear. An **alphabetical index** is included at the end of the Owner's Manual.

All references to **positions** such as "left", "right", "front" or "rear" are given as seen facing in the direction of travel.

* optional equipment

► The section is continued on the following page.

■ Denotes the **end of a section**.

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⇒ ⚠ Refers to a "WARNING" within the same section. If the WARNING symbol is followed by a page number the warning text referred to is included in a different section.

WARNING

Texts with this symbol contain safety information. They warn you of serious dangers, possibly involving accident or injury.

Caution

Texts with this symbol draw your attention to a possible risk of damage to your vehicle.

For the sake of the environment

Texts with this symbol refer to points relevant to the protection of the environment.

Note

Texts with this symbol contain additional information of a more general nature. ■

Controls

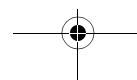
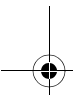
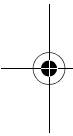
Safety

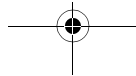
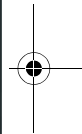
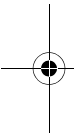
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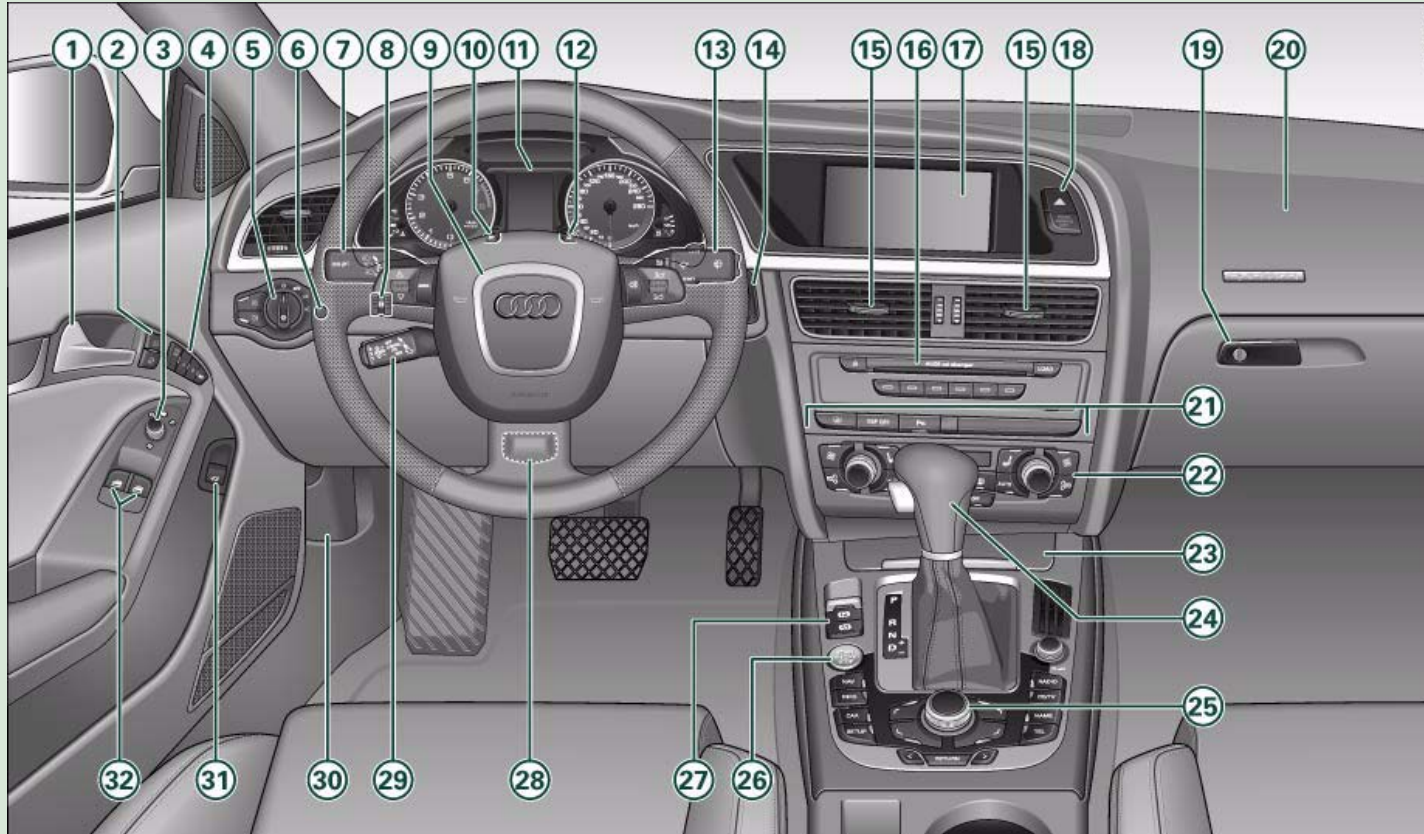


Fig. 1 Some of the items of equipment listed in this section are only fitted on certain models or are optional extras.

Controls and displays

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¹⁾ Depending on the MMI system fitted in your vehicle the display screen is either two-coloured or multi-coloured. As the two displays are more or less identical this Owner's Manual uses the multi-coloured displays for illustration purposes.



Controls and displays

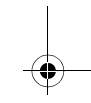
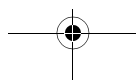
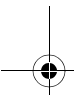
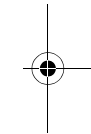
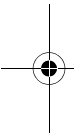


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Note

- Please refer to the separate operating manual for instructions on using the Multi Media Interface (MMI).
- The arrangement of switches and controls on right-hand drive models* may be slightly different from the layout shown in the illustration => page 8, fig. 1. However, the symbols used to identify the controls are the same. ■



Instruments and warning/indicator lamps

Instruments

Instrument cluster overview

The instrument cluster is the driver's information centre.

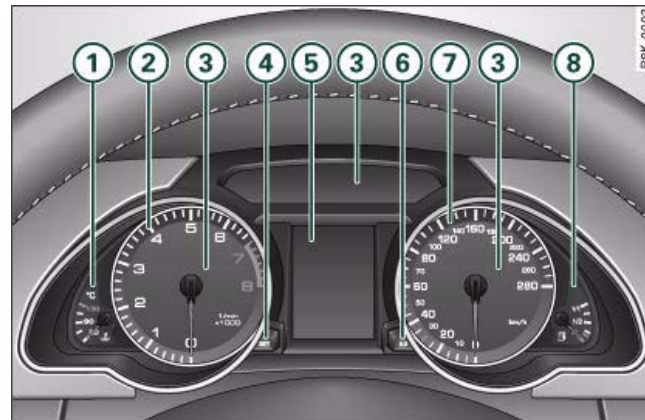


Fig. 2 Overview of instrument cluster

① Coolant temperature gauge	11
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Note

- The needles in the instrument cluster will sweep across the dials when you switch on the ignition.
- The instrument lighting (illumination of dials and needles) is switched on when the ignition is on and the **vehicle's lights are off**. The instrument lighting is dimmed automatically as the daylight starts to fade. This function is intended to remind the driver to switch on the dipped-beam headlights in good time when light conditions become poor. ■

Coolant temperature gauge

The coolant temperature gauge ① ⇒ fig. 2 only works when the ignition is switched on. In order to avoid possible damage to the engine, please read the following notes for the different temperature ranges.


Engine cold

If the needle is still in the lower range of the dial, this indicates that the engine has not yet reached operating temperature. Avoid high engine speeds, full acceleration and heavy engine loads.

Normal temperature

In normal operation the needle will settle somewhere in the centre of the dial once the engine has reached operating temperature. The needle may also go further up when the engine is working hard at high outside temperatures. This is no cause for concern provided the warning symbol ⚠ in the display does not start flashing. ▶

Warning symbol in instrument cluster 

If the symbol  lights up in the display, this means that either the coolant *temperature* is too high or the coolant *level* is too low
⇒ *page 32*.

If the needle is at the top end of the dial, this means the coolant temperature is too high. **Stop the vehicle, switch off the engine and wait for it to cool down.** If the warning lamp starts flashing again after just a short distance, contact a qualified workshop.

WARNING

- Before opening the bonnet and checking the coolant level, please observe the warning information on ⇒ *page 231*, "Working on components in the engine compartment".
- Never open the bonnet if you can see or hear steam or coolant escaping from the engine compartment; there is a risk of being scalded. Wait until you can no longer see or hear escaping steam or coolant.

Caution


- Additional lights and other accessories in front of the air inlet reduce the cooling effect of the radiator. At high outside temperatures and high engine loads, there is a risk of the engine overheating.
- The front spoiler also ensures proper distribution of the cooling air when the vehicle is moving. If the spoiler is damaged this can reduce the cooling effect, which could cause the engine to overheat. You should obtain professional assistance. ■

Rev counter

The rev counter indicates the number of engine revolutions per minute.

You should select a lower gear if the engine speed drops below 1500 rpm. The start of the red zone on the dial indicates the maximum engine speed which may be used briefly when the engine is warm and after it has been run in properly. However, it is advisable to change up a gear or move the selector lever to "D" (or lift your foot off the accelerator) before the needle reaches the red zone.

Caution

Never allow the rev counter needle  ⇒ *page 11*, fig. 2 to go into the red zone on the dial for more than a very brief period: there is a risk of damaging the engine. The start of the red zone on the dial is different for some engine versions.

For the sake of the environment

Changing up a gear early will help you to save fuel and minimise engine noise. ■

SET button

This button has a number of different functions.



Fig. 3 Instrument cluster: SET button ►

The **SET** button has the following functions:

Activating clock, date, temperature and mileage recorder displays

The display will appear for about 30 seconds if you press the **SET** button ⇒ *page 12*, *fig. 3* when the ignition is switched off.

Starting check procedure (auto-check control)

The auto-check control checks important components and vehicle systems. These background checks are run constantly, as long as the ignition is switched on ⇒ *page 29*.

You can start the "check procedure" manually by pressing the **SET** button with the ignition switched on. This function check can be started at road speeds up to 5 km/h.

Calling up driver messages again

A red or yellow symbol appearing in the instrument cluster display is normally accompanied by a corresponding message. The message will disappear from the display after about 5 seconds. If required, you can call up the message again by briefly pressing the **SET** button.

Setting speed warning

You can press the **SET** button briefly to set speed limit warning 1 **while the vehicle is moving** ⇒ *page 28*. If you press **and hold** the **SET** button, this will cancel the speed warning. ■

Time and date display



Fig. 4 Instrument cluster: Time and date display

Quartz clock

The date, time and display format can be changed using the sound system or MMI* control console. Please refer to the Operating Manual for the MMI or sound system for more details.

Radio-controlled clock*

When the clock is in "radio-control" mode the signal reception symbol (a radio tower with radio waves) appears in the display ⇒ *fig. 4*. It is then not possible to change the minutes or the date manually.

Note

- The digital clock and mileage recorder displays are switched on for about 30 seconds when the driver's door is opened.
- When the ignition is switched off, the clock and date display can be switched on for about 30 seconds by pressing the **SET** button ⇒ *page 12*, *fig. 3* ⇒ *page 12*. ■

Mileage recorder

The instrument shows how far you have travelled.



Fig. 5 Instrument cluster: Mileage recorder



Fig. 6 Instrument cluster: Reset button

The mileage is stated in kilometres ("km") or "miles".

You can switch the display from kilometres to miles and vice versa via the MMI or the **CAR** button on the sound system control console.

Odometer / trip recorder

The odometer records the vehicle's total mileage.

The trip recorder shows the distance that has been travelled since it was last reset. It is used to measure individual journeys. The last digit of the trip recorder indicates distances of 100 metres or tenths of a mile.

The trip recorder can be reset to zero by pressing the reset button **0.0** ⇒ fig. 6.

Fault display

If there is a fault in the instruments, the letters **dEF** appear permanently in the trip recorder display. Please have the fault rectified as soon as possible.

Immobiliser

When the ignition is switched on, the security programming of the ignition key is verified electronically.

If an uncoded key is used, **SAFE** will appear continuously in the mileage recorder display. The vehicle cannot then be driven ⇒ page 39.

Note

- The date, time and recorded mileage will continue to be displayed for about 30 seconds after you switch off the ignition.
- The digital clock and mileage recorder displays are switched on for about 30 seconds when the driver's door is opened.
- When the ignition is switched off, the mileage recorder can be switched on for about 30 seconds by pressing the **SET** button ⇒ page 12, fig. 3 ⇒ page 12. ■

Warning and indicator lamps

Overview

The warning and indicator lamps indicate a number of different functions and possible faults.



Fig. 7 Instrument cluster with warning and indicator lamps

	Engine management (alternative to)	⇒ page 15
	(alternative to EPC)	⇒ page 16
	Electronic stabilisation program (ESP)	⇒ page 16
	Airbag system	⇒ page 16
	Left turn signals	⇒ page 17

	Trailer turn signals*	⇒ page 17
	Seat belt warning lamp	⇒ page 17
	Emission control system	⇒ page 17
	Main beam headlights	⇒ page 17
	Right turn signals	⇒ page 17
	Cruise control system*	⇒ page 17
	Anti-lock brake system (ABS)	⇒ page 18
	Electro-mechanical parking brake/Audi hold assist*	⇒ page 19
	Fault in brake system	⇒ page 19

Note

A number of functions are monitored by the auto-check control ⇒ page 20. If a malfunction should occur, this will be shown by the display in the instrument cluster either with a red symbol (priority 1 – serious malfunction) or a yellow symbol (priority 2 – other malfunction or item requiring attention). ■

Applies to vehicles: with petrol engine

Engine management **EPC**

This warning lamp monitors the engine management system on petrol engines.

The **EPC** warning lamp (Electronic Power Control) lights up when the ignition is switched on to show that the lamp is working properly. ►

Note


If the warning lamp lights up while the vehicle is moving, this indicates a fault in the engine management system. The engine should be serviced by a qualified workshop without delay. ■

Applies to vehicles: with diesel engine

Glow plug system 

The indicator lamp lights up to show that the glow plugs are preheating.

Your vehicle is equipped with an automatic glow plug system.


The indicator lamp  lights up while the glow plugs are preheating. If the engine fails to start immediately, the glow plugs have not finished preheating. In this case, keep the clutch pedal depressed (or keep your foot on the brake if your vehicle has an automatic gearbox) until the engine starts.

Note

- If the glow plug indicator lamp should start flashing while the vehicle is moving, this indicates a fault in the engine management system. The engine should be serviced without delay.
- If the indicator lamp fails to light up when the ignition is switched on, this can mean that the glow plug system is defective. The engine should be serviced. ■

Electronic stabilisation program (ESP) 

This warning lamp monitors the electronic stabilisation program.

The warning lamp  has the following functions:

- It flashes when the ESP or traction control system (ASR) intervenes while the vehicle is in motion.

- The warning lamp will light up continuously if the ESP or the traction control system (ASR) has been switched off using the ESP OFF button ⇒ *page 196*.
- It lights up when the ignition is switched on and should go out again after about 2 seconds. This signals that the lamp is working properly.
- It will light up continuously if there is a malfunction in the ESP.
- It will also come on if a fault should occur in the ABS because the ESP operates in conjunction with the ABS.


If the battery has been disconnected, if the battery voltage is very low, or if the engine has been started from an outside power source, the ESP system will perform an initialisation of the various on-board sensors while you drive the first few metres. The warning lamp will light up during this period. It will go out when the initialisation has been completed.

If the warning lamp lights up and stays on after the engine is started, this may mean that the control system has temporarily switched off the ESP. In this case the ESP can be reactivated by switching the ignition off and then on again. If the warning lamp goes out, this means the system is fully functional.

For further information on the ESP ⇒ *page 196*. ■

Airbag system 

This warning lamp monitors the airbag and seat belt tensioner system.

The warning lamp  should light up for a few seconds when the ignition is switched on.

If the warning lamp does not go out, or if it lights up, flashes or flickers when the vehicle is moving, this indicates a malfunction in the system. This is also the case if the warning lamp does not light up when the ignition is switched on. ►

WARNING

If a malfunction should occur, have the system checked immediately by a qualified workshop. If this is neglected, there is a risk that the airbag system and/or belt tensioners may not be activated in an accident. ■

Turn signals ⇄

Depending on which turn signal is operated, either the left ⇄ or right ⇄ indicator lamp flashes. Both indicator lamps will flash when the hazard warning lights are switched on.

If one turn signal should fail, the indicator lamp will start flashing twice as fast.

This does not apply when towing a caravan or trailer. The indicator lamp will stop flashing if one of the turn signals on the vehicle or the caravan/trailer should fail. For further information on the turn signals ⇒ *page 59*. ■

Applies to vehicles: with towing bracket

Trailer turn signals ⇄

The indicator lamp flashes when the turn signals are operated while towing a caravan or trailer.

The indicator lamp ⇄ flashes when the turn signals are operated, provided a caravan or trailer is correctly attached and connected to the vehicle.

The indicator lamp will not flash if one of the turn signals on the trailer fails. ■

Seat belt warning lamp 🚗

The warning lamp acts as a reminder to fasten the seat belts.

After switching on the ignition, the warning lamp 🚗 will remain lit until the driver and front passenger (if applicable) have fastened their seat belts. When the vehicle has gathered speed you will also hear a warning chime.

For further information on the seat belts ⇒ *page 170*. ■

Emission control system 🚗

If the warning lamp **lights up continuously** you should take your vehicle to a qualified workshop as soon as possible in order to have the fault rectified.

If the warning lamp **flashes** drive on at reduced speed and seek professional help in order to avoid damage to the catalytic converter.

For further information on the catalytic converter ⇒ *page 205*. ■

Main beam headlights 🚗

The indicator lamp 🚗 lights up when the main beams are on or when the headlight flasher is operated.

For further information on the main beam headlights ⇒ *page 59*. ■


Applies to vehicles: with cruise control system

Cruise control 🚗


The indicator lamp 🚗 in the instrument cluster lights up when the cruise control system is operating. ■

Anti-lock brake system (ABS)

The warning lamp monitors the ABS and the electronic differential lock (EDL).

The warning lamp  lights up for a few seconds when the ignition is switched on and while the engine is being started. The lamp goes out again once the system has run through an automatic test sequence.




There is a fault in the ABS if:


- the warning lamp  does not light up when the ignition is switched on,
- the warning lamp does not go out again after a few seconds,
- the warning lamp lights up when the vehicle is moving.

The vehicle can still be braked in the normal way (except that the ABS control function is out of action). Please take the vehicle to a qualified workshop as soon as possible. For further information on the ABS ⇒ *page 197*.


If a fault occurs in the ABS, the ESP warning lamp will also light up.

Fault in the main brake system



If the ABS warning lamp  lights up together with the brake warning lamp  ⇒ *page 31*, this indicates a fault in the ABS function, and possibly a malfunction in the main brake system as well ⇒ .

If there is a **malfunction in the brake system** the symbol  will light up in the instrument cluster. Please refer to ⇒ *page 31*.

Fault on the electronic differential lock (EDL)

The EDL works in conjunction with the ABS. If a malfunction should occur in the EDL, this is indicated by the ABS warning lamp . Please take the vehicle to a qualified workshop as soon as possible. For further information on the EDL ⇒ *page 199*.


WARNING



- Before opening the bonnet and checking the brake fluid level, observe the warning information on ⇒ *page 231*, "Working on components in the engine compartment".
- If the brake warning lamp  should light up together with the ABS warning lamp , stop the vehicle immediately and check the brake fluid level in the reservoir. If the fluid level has dropped below the "MIN" mark you must not drive on - otherwise there may be an increased accident risk. You should obtain professional assistance.
- If the brake fluid level is OK, the fault in the brake system may have been caused by a failure of the ABS control function. As a result the rear wheels can lock relatively easily when braking. This could cause the tail of the vehicle to skid sideways. Drive carefully to the nearest qualified workshop and have the fault rectified. ■

Applies to vehicles: with Audi hold assist

Audi hold assist


This warning lamp monitors the Audi hold assist function.

Audi hold assist helps the driver to keep the vehicle stationary while the engine is running, for instance on steep gradients, at traffic lights or in stop-and-go traffic. When the Audi hold assist function is on, you don't have to keep your foot on the brake to prevent the vehicle from accidentally rolling away. Once it detects that the vehicle is stopped, Audi hold assist keeps the vehicle stationary. The green symbol  in the instrument cluster indicates that the function is activated. You can now take your foot off the brake pedal.

When the vehicle has been stationary for an extended period, Audi hold assist will automatically apply the parking brake. In this case, the green symbol  will change to red . ■


Electro-mechanical parking brake

This warning lamp monitors the electro-mechanical parking brake.

The warning lamp  lights up when the parking brake is applied with the ignition on. After the ignition has been switched off the lamp will stay on for about 30 seconds. The warning lamp will light up for about 30 seconds if the parking brake is applied with the ignition switched off.



The warning lamp should go out when the parking brake is released.




If the warning lamp flashes continuously **after the parking brake has been applied**, the brake may not be strong enough to hold the vehicle on a slope. This may be due to the brakes overheating. Please note the following points:

- If the gradient is too steep to park the vehicle safely, the display will show the message **Caution: Vehicle parked too steep**.
- In the event of a fault in the parking brake system the symbol  will also appear in the instrument cluster display together with the message **Parking brake!** You should have the fault corrected by a qualified workshop without delay. ■

Brake system

The warning lamp flashes if the brake fluid level is too low or if there is a fault in the ABS system or the parking brake.

If the warning lamp  flashes, there is a fault in the brake system. The symbol  in the instrument cluster display will flash at the same time. You can press the **SET** button to obtain a message explaining the fault ⇒ [page 31](#).


If a failure should occur in the ABS, the ABS warning lamp  will light up together with the brake warning lamp  ⇒ .

WARNING

- Before opening the bonnet and checking the brake fluid level, observe the warning information on ⇒ [page 231](#), “Working on components in the engine compartment”.
- If the brake warning lamp does not go out, or if it lights up when driving, the brake fluid level in the reservoir is too low – this may cause an increased accident risk. Stop the vehicle and do not drive on. You should obtain professional assistance.
- If the brake warning lamp lights up together with the ABS warning lamp, this can mean that the control function of the ABS is out of action. As a result the rear wheels can lock relatively easily when braking. This could cause the tail of the vehicle to skid sideways. Drive carefully to the nearest qualified workshop and have the fault rectified. ■

Fuel gauge

The gauge only works when the ignition is switched on.

When the needle reaches the reserve zone, the symbol  lights up in the instrument cluster display ⇒ [page 36](#) together with the message **Please refuel**. At this point there are still about 8 litres of fuel left in the tank. This is your reminder **to fill up soon**.

The tank capacity of your vehicle is given in the **Technical data** section ⇒ [page 293](#).

Caution

Never run the tank completely dry. If there is an irregular fuel supply, misfiring can occur. This allows unburnt fuel to enter the exhaust system, which could cause overheating and damage the catalytic converter. ■

Driver information system

Introduction

General notes

The driver information system in the instrument cluster shows you the status of various on-board systems at a glance.



Fig. 8 Dashboard: Display in instrument cluster (automatic gearbox)

The display for the driver information system is in the centre of the instrument cluster.

The system runs a check on certain components and functions when the ignition is switched on and while the vehicle is moving. It gives an audible warning if a fault should occur or if servicing is required, and a red or yellow warning symbol (in some cases with a corresponding driver message) appears in the dashboard display.

The system will also display information for the radio and CD player and (if fitted) the route guidance directions from the **navigation system***. For further information on these systems, please refer to the MMI operating manual.

On some models the display of information shown in the instrument cluster differs from the illustrations used here.

The driver information system includes the following functions:

CD and radio display	⇒ page 21
Outside temperature	⇒ page 21
Gear-change indicator	⇒ page 21
Digital speedometer*	⇒ page 22
Door catches/boot lid warning	⇒ page 23
Service interval display	⇒ page 23
Auto-check control*	⇒ page 29
Driver messages	⇒ page 30
Speed warning	⇒ page 28
On-board computer*	⇒ page 25
Selector lever positions for automatic gearbox*	⇒ page 131

Note

If a fault should occur, the display will show a red or yellow warning symbol. A red warning symbol indicates a **serious malfunction** ⇒ page 30. A yellow warning symbol indicates a less serious **malfunction**, or other item requiring attention ⇒ page 34. ■

CD and radio display



Fig. 9 Display: Radio information

If no priority 1 or 2 faults have been detected by the auto-check control, the name or frequency of the current radio station and the selected waveband will appear the upper part of the display.

When a CD is playing, the display will show the current title. If the vehicle is equipped with a CD changer* the display will also show the number of the CD being played (CD1 to CD6). ■

Outside temperature display

The outside temperature is shown when the display is activated.



Fig. 10 Display: Outside temperature

At temperatures below +5°C a snowflake symbol appears next to the temperature display. This is to warn the driver to take extra care when there is a risk of ice on the road.

When the vehicle is stationary or travelling at very low speeds, the temperature displayed may be slightly higher than the actual outside temperature as a result of the heat radiated from the engine.

The temperature units can be set to °F or °C on the MMI* or sound system control console. The outside temperature is automatically displayed in the units you have selected. Please refer to the Operating Manual for the MMI* or sound system.

WARNING

Do not rely on the outside temperature display as an ice warning. Please bear in mind that there may be patches of ice on the roads even at outside temperatures around +5°C. ■

Applies to vehicles: with manual gearbox and gear-change indicator

Gear-change indicator

This additional indicator function can help to save fuel.



Fig. 11 Display: Gear-change indicator



Fig. 12 MMI display: Switching the suggested gear on and off

You can deactivate the gear-change indicator on the sound system or MMI.

Switching the gear-change indicator on and off

- Select: Function selector button **CAR** > Instrument cluster > **Suggested gear** ⇒ fig. 12.

To familiarise yourself with the gear-change indicator, we recommend driving in the normal way to start with. A gear change will be recommended if the gear you are in is not the most economical choice for the current driving conditions. The gear you are currently in and the recommended gear will be displayed ⇒ *page 21*, fig. 11.

- **Shifting up a gear:** The suggested gear appears to the **right** of the current gear when a higher gear is recommended.
- **Shifting down a gear:** The suggested gear appears to the **left** of the current gear when a lower gear is recommended.

Gears may occasionally be skipped (3 > 5).

If no gear change is recommended, you are already in the most economical gear.

Note

- The gear-change indicator is intended to help save fuel. It is not intended to recommend the right gear for all driving situations. For

example, the display may not recommend a gear change while you are overtaking, driving up a steep gradient or towing a trailer.

- The gear-change indicator goes out when you press the clutch pedal. ■

Applies to vehicles: with on-board computer

Digital speedometer



Fig. 13 Display: Digital speedometer

The display shows the current speed. The speed is displayed in increments of 1 km/h. ■

Door catches / boot lid warning

The pictogram shows whether the doors and the boot lid, etc. are properly closed when driving off.

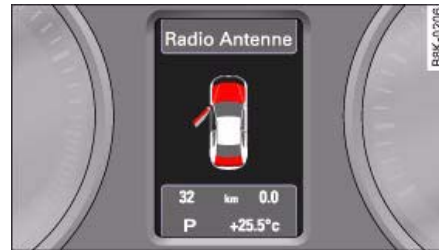


Fig. 14 Display: Door catches/boot lid warning

The door catches/boot lid warning symbol lights up if *one or more* of the doors, or the bonnet or boot lid are not properly closed when the ignition is on. The symbol also indicates *which* of these is not properly closed ⇒ fig. 14.

The warning symbol disappears when all the doors, the bonnet and the boot lid are completely closed, and the driver information functions selected will then be displayed again. ■

Service interval display

This display reminds the driver when the next routine service is due and is called up using the MMI or the sound system control console.



Fig. 15 MMI display: Service interval display



Fig. 16 Instrument cluster display: Service interval display

The date when the next service is due is calculated automatically and the driver is reminded accordingly.

Service reminder

- When the next service date is approaching, **SERVICE IN - --- KM --- DAYS** ⇒ fig. 16 will be shown in the display each time you switch on the ignition. ►

- The remaining time and distance to the next service are indicated every time the ignition is switched on, until the service becomes due.

Service due

- When a service is due, **Service!** will appear in the display as soon as you switch on the ignition. The display reverts back to the standard display after about 5 seconds.

Displaying the service interval

- Select: Function selector button **CAR** > **Service interval display** ⇒ *page 23*, fig. 15.

Resetting the oil change interval display

- Select: Function selector button **CAR** > **Service interval display** > **Reset oil change interval**.

Displaying distance to next service

You can have the distance to the next service displayed on the MMI screen ⇒ *page 23*, fig. 15. The remaining distance to the next service is updated every time the ignition is switched on (starting at 500 km after a service has been performed).

On a new vehicle, the display will always show the following message for the first 500 km.

SERVICE IN ----- KM --- DAYS

Caution

The system cannot calculate the figures for the service indicator if the battery is disconnected from the vehicle, so no service reminder can be displayed during this time. Please remember that keeping to the correct service intervals is most important for the service life and residual value of the vehicle (and especially for the life of the engine). The period between two services must never be longer

than the time specified in the Service Schedule, even if you only cover a low mileage during this time.

Note

- Do not reset the display between oil changes - otherwise the display will be incorrect.
- The information in the service interval display remains intact if the battery is disconnected.
- The distance to the next service cannot be called up if the system has detected a Priority 1 fault (red symbol).
- If the service was not performed by a qualified workshop, the oil change interval display can only be set to “fixed service intervals” of 15,000 km. If you wish to continue with the “LongLife” service, you will need to have the oil change interval display reset by a qualified workshop. ■

On-board computer

Applies to vehicles: with on-board computer

Introduction

The on-board computer provides you with useful information during a journey, including average and current fuel consumption, average speed, fuel range and driving time.



Fig. 17 On-board computer: Fuel range



Fig. 18 On-board computer: Average fuel consumption

The following items of information are processed by the on-board computer and can be shown one after the other on the display in the instrument cluster.

Fuel range

The estimated fuel range is displayed in km. It shows how far the vehicle can be driven with the amount of fuel left in the tank, assuming the same style of driving. The fuel range is displayed in increments of 10 km.

The fuel range is calculated on the basis of the fuel consumption over the last 30 kilometres. The fuel range will increase accordingly if you drive in a more economical manner.

Average fuel consumption

This mode displays the average fuel consumption since the memory was last cancelled in litres/100 km. If required, you can use this display to adjust your driving style to achieve the desired fuel consumption.

Current fuel consumption

The display shows the current fuel consumption in litres/100 km. If required, you can use this display to adjust your driving style to achieve the desired fuel consumption.

The computer calculates the fuel consumption every 30 metres. The display switches to l/h (litres per hour) when the vehicle is stationary.

Average speed

This mode shows the average speed driven since the memory was last cancelled (in km/h).

Driving time

This display shows the period of time which has elapsed since the memory was last cancelled.

Distance covered

This display shows the distance you have covered since the memory was last cancelled.

Note

- The displays for fuel consumption (average and current consumption), fuel range and speed are shown in metric units. You can change the measurement units on the MMI display.
- The information in the memory is cancelled if the battery is disconnected. ■

Applies to vehicles: with on-board computer

Memory

The on-board computer has two automatic journey memories.



Fig. 19 On-board computer: Memory 1

Press RESET button (B) ⇒ fig. 20 to switch back and forward between the functions of on-board computers 1 and 2.

The number in the display ⇒ fig. 19 indicates which of the two memories is currently in use. The figure 1 means that the display is showing the information in the single journey memory (on-board computer 1). The figure 2 means that the display is showing the information in the total journey memory (on-board computer 2).

Single journey memory (on-board computer 1)

The single journey memory processes the information on a journey from the time the ignition is switched on until it is switched off. If

the journey is resumed **within two hours** after the ignition is switched off, the new figures are automatically included in the calculation. The memory is automatically deleted when you resume driving, if the journey is interrupted for **more than two hours**.

Total journey memory (on-board computer 2)

Unlike the single journey memory, the total journey memory is not erased automatically. In this way, you can determine the period for which you wish the on-board computer to supply figures. ■

Applies to vehicles: with on-board computer

Controls

The on-board computer is controlled by means of two switches on the windscreen wiper lever.



Fig. 20 Windscreen wiper lever: On-board computer controls

- Press the top or bottom of the function selector switch (A) ⇒ fig. 20. This displays the on-board computer read-outs one after the other.

The on-board computer can only be operated while the ignition is switched on. When the ignition is switched on, the display shows the function that was last selected.

As well as the figures from the on-board computer (computer 1 or 2), the display can also show information from the digital speedom-▶

eter and navigation system*. Press the Reset button **(B)** briefly to switch back and forward between these displays.

Resetting figures to zero

To cancel one of the computer readings **individually**, select the required function and press the RESET button **(B)** for at least one second. The following values can be reset to zero **individually** using the Reset button:

- Average fuel consumption
- Average speed
- Driving time
- Distance covered

You can also cancel **all** the values in the single journey memory or the total journey memory at the same time ⇒ *page 27*.

i Note

The information in the memory is cancelled if the battery is disconnected. ■

Applies to vehicles: with on-board computer

Basic settings for the on-board computer

You can change the basic settings for the on-board computer on the MMI* or on the sound system control console.



Fig. 21 MMI display: On-board computer

- Select: Function selector button **(CAR)** > **Instrument cluster** > **On-board computer 1** or **On-board computer 2**.

You can zero all the values in the single journey memory or the total journey memory at the same time by selecting the **Reset** menu item.

You can also define which items of information you wish to have displayed by the on-board computer. If one of these items is switched **off**, it will not appear in the display. However, the corresponding figures will still be registered by the on-board computer and can be switched back **on** at any time so that they again appear in the display. ■

Speed warning function

Applies to vehicles: with speed warning function

Introduction


The speed warning function can help you keep below a pre-set maximum speed.

The speed warning function will warn you if the vehicle exceeds the pre-set maximum speed. The system gives an audible warning signal if the set speed is exceeded by about 3 km/h. A warning symbol will also appear in the display. On some models the symbol may look slightly different.

The speed warning function has **two** different warning speeds, which operate independently and serve slightly different purposes:

Speed limit warning 1

With speed limit warning 1, the maximum speed can be changed while driving. The speed limit that has been set remains stored until the ignition is switched off, or until it is changed or cleared.


The speed limit warning symbol  for speed limit warning 1 will appear in the display if you exceed the pre-set speed. It goes out again if the speed is reduced below the set speed limit.

The symbol also goes out if the speed is *increased* to more than about 40 km/h above the set speed for at least 10 seconds. This cancels the speed limit that was originally set.

Setting speed limit warning 1 ⇒ [page 28](#).

Speed limit warning 2

You are recommended to store this speed limit warning if you *always* wish to be reminded of a particular speed limit. This could be when driving in countries with general speed limits, or if you need to keep below a particular speed when winter tyres are fitted, etc.

The speed limit warning symbol  for speed warning 2 will appear in the display if you exceed the pre-set speed. Unlike speed limit warning 1, the warning symbol only goes out once the road speed has dropped below the stored value again.

Setting speed limit warning 2 ⇒ [page 29](#).

Note

Please bear in mind that, even with the speed warning function, it is still important to keep a check on the car's speed with the speedometer and to observe the statutory speed limits. ■

Applies to vehicles: with speed warning function

Setting speed limit warning 1

You can use the **SET** button to set, alter or cancel speed limit warning 1.




Fig. 22 Detail of the instrument cluster: SET button


Selecting speed limit

- Drive at the desired maximum speed.
- Press the **SET** button in the instrument cluster ⇒ [fig. 22](#) for one second. ▶

Clearing speed limit

- Drive the vehicle at a minimum of 5 km/h.
- Press the **(SET)** button for at least 2 seconds.

The speed warning symbol  lights up briefly in the display to confirm that the selected speed has been stored. The speed limit that has been set remains stored until another speed is set with a brief push of the button, or until the memory is cleared with a long push of the button.

When the speed limit has been cleared, the display will show a crossed-out warning symbol . ■

Applies to vehicles: with speed warning function

Setting speed limit warning 2

You can use the MMI or sound system control console to set, alter or cancel speed limit warning 2.*



Fig. 23 MMI display: Setting speed limit warning 2

- Select: Function selector button **(CAR)** > Instrument cluster > Speed warning.
- **Speed warning on/off** - to activate or deactivate the speed warning function ⇒ fig. 23.

- **Speed warning** - to set the speed above which a warning signal will sound.

Speed limit warning 2 can be adjusted in increments of 10 km/h between 30 and 240 km/h. ■

Auto-check control

Introduction

The auto-check control checks important components and vehicle systems. These background checks are run constantly, as long as the ignition is switched on.

A message is displayed in the instrument cluster if a fault should occur or if any maintenance or repairs are urgently required. This is accompanied by an audible warning signal. Depending on the priority of the fault, a red or yellow warning symbol lights up in the display.

The red symbols indicate a **serious malfunction**, whereas the yellow ones represent other **malfunctions** or items requiring attention. Additional messages to assist the driver may be shown with the red or yellow symbols.

Automatic gearbox* function test

The auto-check control automatically checks the vehicle systems when the ignition is switched on. If the selector lever is in position P or N, the following instruction will appear:

When stationary apply footbrake while selecting gear

When a gear (R, D etc.) is selected, this message disappears and the auto-check control function is displayed.

The driver message will disappear 30 seconds after switching on the ignition or earlier, if there are other driver messages or malfunctions. ►

If one or more faults are detected, the driver information message (as above) will disappear about 15 seconds after the engine has been started and the appropriate fault symbol(s) will appear in the display. The warning display will be accompanied by the corresponding warning chime. ■

Driver messages

Additional messages to assist the driver are displayed together with the warning symbols in the instrument cluster.



Fig. 24 Instrument cluster: SET button


For example, the following driver message will appear if the selector lever for the automatic gearbox* is not in position P when you switch off the engine:

Shift to P, otherwise vehicle can roll away. Doors do not lock if lever is not in P

The ignition key can only be withdrawn when the selector lever is in this position. Similar messages will be displayed if other functions of this kind cannot be carried out.

Driver messages and red symbols

If a red warning symbol appears in the display, it will automatically be accompanied by the corresponding driver message.


For example, in the event of an oil pressure malfunction the oil pressure symbol  will appear in the display. In addition, the following message will appear:

Switch off engine and check oil level

The message will disappear from the display after about 5 seconds. If required, the message can be called up again by briefly pressing the **(SET)** button ⇒ fig. 24.

Driver messages and yellow symbols

If a yellow warning symbol appears in the display, it will automatically be accompanied by the corresponding driver message.

For example, if the symbol  appears (windscreen washer fluid low), the display will also show the message:

Please top up washer fluid

The message will disappear after a few seconds. If required, the message can be called up again by briefly pressing the **(SET)** button. ■

Red symbols

A red symbol warns of a serious malfunction.



Fig. 25 Display: Symbol for serious malfunction

- Stop the vehicle. ▶







- Switch off the engine.
- Check the function displayed. Obtain professional assistance if necessary.

The red symbols indicate a Priority 1 fault (serious malfunction).


Should a Priority 1 fault occur, a red warning symbol will appear at the top of the display ⇒ *page 30*, fig. 25. The symbol is accompanied by a driver message giving you more information about the fault. This symbol is accompanied by *three* warning chimes. The symbol will keep flashing until the fault is corrected.

If *several* Priority 1 faults are detected at the same time, the symbols are displayed one after the other for about 2 seconds at a time.

This message will disappear after about 5 seconds, but you can call it up again at any time by pressing the **SET** button ⇒ *page 30*.

	Alternator fault	⇒ <i>page 31</i>
	Fault in brake system/ parking brake	⇒ <i>page 31</i>
	Coolant level too low / coolant temperature too high	⇒ <i>page 32</i>
	Engine oil pressure too low	⇒ <i>page 33</i>
	Fault in the steering system	⇒ <i>page 33</i>
	Ignition lock defective	⇒ <i>page 34</i>


Alternator fault

If the symbol  flashes in the instrument cluster display, there is an alternator fault or a fault in the vehicle's electrical system. In addition, a message will appear. This message will disappear after about

5 seconds, but you can call it up again at any time by pressing the **SET** button.


You should normally be able to drive to the next available qualified workshop. However, you should avoid using electrical equipment that is not absolutely necessary because this will drain the battery.

Caution

If the coolant warning lamp  in the instrument display lights up as well as the alternator warning lamp while driving ⇒ *page 32*, stop the vehicle immediately and switch off the engine. In this case the coolant pump is no longer being driven, and there is a risk of engine damage. ■

Fault in the brake system


A fault in the brake system should be corrected as soon as possible.

If the symbol  flashes in the display, there is a fault in the brake system. The symbol is accompanied by a driver message giving you more information about the fault. This message will disappear after about 5 seconds, but you can call it up again at any time by pressing the **SET** button:

Stop vehicle and check brake fluid level




- Stop the vehicle.
- Check the brake fluid level ⇒ *page 238*.
- Obtain professional assistance if necessary.

Warning! Fault in ABS brake system. Contact workshop

- Drive carefully to the nearest qualified workshop and have the fault rectified ⇒ .

Parking brake ! Please contact workshop


- If the symbol appears after you switch on the ignition when the vehicle is stationary, please check whether you can release the parking brake. If this is possible, you should drive without delay to the nearest qualified workshop and have the fault rectified. If the parking brake cannot be released you should obtain professional assistance.
- If this symbol should appear while driving, there may be a malfunction in the drive-away assist or the emergency brake functions. You may not be able to apply the parking brake. It is also possible that you cannot release the parking brake after it has been applied. Drive the vehicle to a qualified workshop and have the fault repaired.

If the ABS fails, the ABS warning lamp  will light up together with the brake warning symbol  ⇒ .

 WARNING


- Before opening the bonnet and checking the brake fluid level, observe the warning information on ⇒ *page 231*, "Working on components in the engine compartment".
- If the brake fluid level in the reservoir is too low, this could result in an accident. Do not drive on. You should obtain professional assistance.
- If the brake warning lamp lights up together with the ABS warning lamp, this can mean that the control function of the ABS is out of action. As a result the rear wheels can lock relatively easily when braking. This could cause the tail of the vehicle to skid sideways. Drive carefully to the nearest qualified workshop and have the fault rectified.

 Note

The warning lamp  in the instrument cluster will start flashing as well if there is a fault in the brake system. ■

Fault in the cooling system 

Faults in the cooling system must be rectified immediately.

If the  symbol flashes in the display, this means that either the coolant *temperature* is too high or the coolant *level* is too low. The symbol is accompanied by a driver message giving you more information about the fault. This message will disappear after about 5 seconds, but you can call it up again at any time by pressing the **SET** button:

Switch off engine, check coolant level

- Stop the vehicle.
- Switch off the engine.
- Check the coolant level ⇒ *page 236*.
- Add more coolant if necessary ⇒ *page 236*.
- Wait for the symbol to go out before driving on.
- Obtain professional assistance if necessary.


If the coolant level is correct, the overheating may be caused by a malfunction of the radiator fan.

If the alternator warning lamp lights up as well ⇒ *page 31*, it is possible that the drive belt has broken. ►

WARNING


- If your vehicle should break down for technical reasons, stop it at a safe distance away from moving traffic, switch off the engine and turn on the hazard warning lights ⇒ *page 58*, "Hazard warning lights ▲".
- Never open the bonnet if you can see or hear steam or coolant escaping from the engine compartment; there is a risk of being scalded. Wait until you can no longer see or hear escaping steam or coolant.
- The engine compartment of any motor vehicle is a dangerous place. Before carrying out any work in the engine compartment, switch off the engine and allow it to cool down. Please observe the important safety warnings ⇒ *page 231*, "Working on components in the engine compartment".

Caution

Do not drive on if the symbol  has come on to indicate a fault in the cooling system, otherwise there is a risk of damaging the engine. ■

Engine oil pressure too low

If the engine oil pressure is too low the fault must be rectified immediately.

If the  symbol flashes in the display, the oil pressure is too low. The symbol is accompanied by a driver message giving you more information about the fault. This message will disappear after about 5 seconds, but you can call it up again at any time by pressing the **SET** button:

Switch off engine and check oil level


- Stop the vehicle.

- Switch off the engine.
- Check the engine oil level ⇒ *page 234*.
- Obtain professional assistance if necessary.


If the engine oil level is too low

If the engine oil level is too low, add more oil ⇒ *page 234*.

If the engine oil level is correct


If the  symbol flashes and the engine oil level is correct, obtain professional assistance. Do not drive on. Do not continue to run the engine, **not even at idle speed**.

Note

The oil pressure warning lamp  is not an indicator for the oil level. The oil level should therefore be checked regularly. ■

Fault in the steering system

The steering wheel cannot be unlocked if there is a fault in the electronic steering lock.

If the symbol  flashes in the display, there is a malfunction in the electronic steering lock. The symbol is accompanied by a driver message giving you more information about the fault. This message will disappear after about 5 seconds, but you can call it up again at any time by pressing the **SET** button:

Do not drive vehicle. Steering defective

- You should obtain professional assistance.
- **Do not** have the vehicle towed away. ►

WARNING


The vehicle must not be towed if there is a fault in the electronic steering lock: the steering will be locked and the vehicle cannot be steered. Towing a vehicle with locked steering can cause an accident.

Note

On some models the symbol may look slightly different. ■

Ignition lock defective 

A fault in the ignition lock must be rectified immediately.

If the symbol  flashes in the display, there is a malfunction in the electronic ignition lock. The symbol is accompanied by a driver message giving you more information about the fault. This message will disappear after about 5 seconds, but you can call it up again at any time by pressing the **SET** button:

Ignition lock defective. Contact workshop!

- Do not switch off the engine.
- Drive the vehicle without delay to a qualified workshop and have the fault repaired.

The ignition cannot be switched off if there is a fault in the electronic ignition lock. For this reason, you should drive the vehicle without delay to a qualified workshop and have the cause of the fault repaired.

If the vehicle is equipped with the advanced key* feature, you should not switch off the engine with the Stop/Start button because it cannot be started again after the ignition has been switched off.

Note

On some models the symbol may look slightly different. ■

Yellow symbols

A yellow symbol indicates a malfunction or other item requiring attention.



















Fig. 26 Display: Yellow warning symbol

Yellow symbols indicate a Priority 2 fault.



Yellow symbols are accompanied by *one* warning chime. The symbol is accompanied by a driver message giving you more information about the fault. This message will disappear after about 5 seconds, but you can call it up again at any time by pressing the **SET** button.

The function indicated should be checked as soon as possible. The yellow symbol will only go out when the fault has been rectified.

If several Priority 2 faults are detected at the same time, the symbols are displayed one after the other for about 2 seconds at a time. ►


	Brake pads worn	⇒ page 36
	Battery power*	⇒ page 36
	Bulb monitor* Bulb failure*	⇒ page 36
	Check engine oil level	⇒ page 37
	Engine oil sensor defective	⇒ page 37
	Fuel level low	⇒ page 36
	Washer fluid level low*	⇒ page 36
	advanced key* Key not in vehicle	⇒ page 35
	Light sensor/ rain sensor defective	⇒ page 35
	Diesel particulate filter* obstructed	⇒ page 37
	Dynamic headlight range control* defective	⇒ page 37
	Battery in remote control key	⇒ page 40
	Electro-mechanical parking brake	⇒ page 123
	adaptive light* defective	⇒ page 37
	Ignition lock defective	⇒ page 37
	Windscreen wiper defective	⇒ page 38

Note

On some models the speed limit warning 1  and speed limit warning 2  will also be displayed as yellow symbols. These always appear as a small symbol at the top of the display ⇒ page 28. ■


Applies to vehicles: with advanced key

Key not in vehicle **Key not in vehicle**

This message will appear together with the symbol  if the remote control key is removed from the vehicle while the engine is running. This is to remind you not to continue driving without the key (for example if you change drivers).


If the remote control key is not in the vehicle you will not be able to switch on the ignition or restart the engine after it has been switched off. You will also not be able to lock the vehicle from the outside. ■

Light sensor/ rain sensor defective **Automatic headlights/ automatic wipers defective**

If the  symbol appears, this means that the light sensor/ rain sensor is not functioning. For safety reasons, the dipped beam headlights will then be switched on permanently when the light switch is set to the **AUTO** position. However, you can still switch the lights on and off in the normal way with the light switch. If the rain sensor is defective, the functions operated via the windscreen wiper lever will still be available. You should have the light sensor/ rain sensor checked by a qualified workshop as soon as possible. ■

Brake pads worn

Brake pads!

If the  symbol lights up, have the front brake pads (and, for safety's sake the rear pads as well) inspected by a qualified workshop. ■


Applies to vehicles: with bulb monitor

Bulb monitor

The bulb monitor checks whether the lights on the vehicle are working.

The bulb monitor checks whether the lights on the vehicle are working. If it detects a defective bulb on the vehicle it will show a yellow warning symbol together with a message indicating which light is not working.

Bulb failure

If the symbol  lights up, this means that one of the turn signals (front or rear), headlights, brake lights, rear lights, fog lights or the rear fog light is not working.

WARNING

- **Bulbs are sensitive to pressure. The glass can break when you touch the bulb, causing injury.**
- **Incorrect handling of the high-voltage element of xenon gas-discharge bulbs* can have potentially fatal consequences.**


Note

Have the components repaired or replaced by a qualified workshop. ■

Applies to vehicles: with washer fluid warning system


Washer fluid level low

Please top up washer fluid

If the  symbol lights up, top up the fluid for the windscreen washer and headlight washer system* ⇒ *page 242*. ■

Fuel level low


Please refuel

When this symbol  comes on for the first time, there are about 8 litres of fuel left in the tank. You should fill up as soon as possible ⇒ *page 228*.

If this warning symbol lights up although the fuel tank is sufficiently filled, there is a malfunction in the fuel tank system. The display will also show the driver message **Tank system malfunction ! Contact workshop**. Please contact a qualified workshop. ■

Applies to vehicles: with battery power warning system

Battery power

If battery power drops to a level at which you may encounter problems when starting the engine, the display will show the symbol  and the driver message **Low battery charge: Battery will be charged while driving**.


Please bear in mind that the starting ability of the engine may be impaired while this message is shown.


Message comes on and goes out again

If the message appears in the display after the ignition is switched on or while driving, and goes out again after a period of time, the battery has been charged up again sufficiently while the vehicle was being driven. ►


Message comes on and does not go out

If the message appears in the display after the ignition is switched on or while driving, and does not go out again, the battery is not being maintained at the proper power level. Starting reliability may be impaired. You should have the battery checked by a qualified workshop as soon as possible. ■

Check engine oil level ** Please check oil level**


If the  symbol lights up, check the engine oil level as soon as possible ⇒ *page 234*. Top up the oil at the next opportunity ⇒ *page 234*. ■


Engine oil sensor defective ** Oil level ! Sensor defective**

If the  symbol lights up, take the vehicle to a qualified workshop and have the oil level sensor checked. Until then it is advisable to check the oil level every time you fill up with fuel ⇒ *page 234*. ■

Applies to vehicles: with diesel engine and diesel particulate filter

Diesel particulate filter obstructed ** Particle filter. See Owner's Manual**

When the symbol  lights up you can assist the self-cleaning function of the filter by driving accordingly. You should drive at a speed of at least 60 km/h (engine speed about 2,000 rpm) for about 15 minutes in 4th or 5th gear, or with the selector lever in position S on vehicles with automatic gearbox*. As a result of the increase in temperature the soot in the filter will be burned off. The symbol will disappear once the cleaning process has been completed successfully.

If the symbol  does not go out, please contact a qualified workshop and have the fault rectified.


For further information on the diesel particulate filter ⇒ *page 205*.

 WARNING


It is essential that you adjust your speed to suit the weather, road, terrain and traffic conditions. The recommended driving speed must never lead to the driver disregarding the traffic regulations. ■


Applies to vehicles: with dynamic headlight range control

Headlight range control defective ** Headlight range control defective**


This symbol  indicates a malfunction in the dynamic headlight range control. Take the vehicle to a qualified workshop to have the dynamic headlight range control function repaired. ■

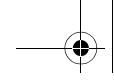
Applies to vehicles: with adaptive light

adaptive light defective ** adaptive light defective**

This symbol  indicates that the adaptive light is defective. Take the vehicle to a qualified workshop to have the headlights and/or the control unit for the adaptive light repaired. ■


Ignition lock defective ** Ignition lock defective**

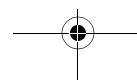
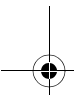
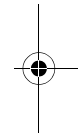
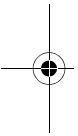
If the symbol  lights up in the display, there is a malfunction in the electronic ignition lock. Take the vehicle to a qualified workshop to have the problem remedied. ■



Windscreen wipers defective

Windscreen wipers defective

This symbol  indicates a malfunction in the electronics for the windscreen wipers. Take the vehicle to a qualified workshop to have the windscreen wiper system repaired. ■



Opening and closing

Keys

Key set

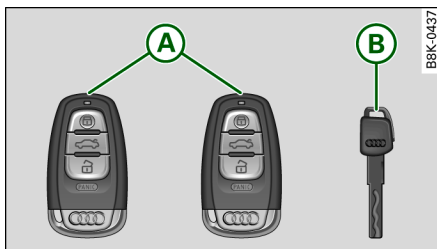


Fig. 1 Key set

A Master key with remote control

You can centrally lock and unlock your vehicle and start the engine with the master key with remote control.

B Emergency key

The emergency key is not intended for constant use. It should only be used in an emergency. Keep it in a safe place and do not carry it on your key ring.

Key replacement

If you lose a key, contact your authorized Audi dealer immediately to have the *lost* key disabled. Be sure to bring all your keys with you.

Personal comfort settings

If two people use one vehicle, it is recommended that each person always uses “their own” master key. When the ignition is turned off or when the vehicle is locked, personal convenience settings for the following systems are stored and assigned to the remote master key.

- Climate control
- Central locking system
- Ambient lighting
- Windows
- Audi parking system*
- Seat memory*

The stored settings are automatically recalled when you unlock the vehicle, when you open the doors or when you turn on the ignition.

WARNING

- **Do not leave your vehicle unattended with the key in the ignition lock. Entry by unauthorized persons could endanger you or result in theft or damage the vehicle. Always lock all doors and take the key.**
- **Do not leave children unattended in the vehicle, especially with access to vehicle keys. Unguarded access to the keys provides children the opportunity to start the engine and/or activate vehicle systems such as the power windows etc. Unsupervised operation of any vehicle system by children can result in serious injury.**
- **Do not remove the key from the ignition lock until the vehicle has come to a complete stop. Otherwise the steering column lock could suddenly engage - causing the risk of an accident.**



Tips

- The operation of the remote control key can be temporarily disrupted by interference from transmitters in the vicinity of the vehicle working in the same frequency range (e.g. a cell phone, radio equipment).

- If you open the driver's door with the key left in the ignition lock, a chime will sound. This is your reminder to remove the key and lock the door.
- For security reasons, replacement keys are only available from Audi dealers. ■

Check light in the master key

The check light in the master key provides information about different conditions.

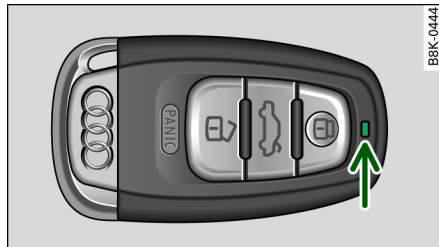



Fig. 2 Check light in the master key

The check light comes on briefly once when a button is pressed, and during an "inquiry" by the advanced key system.

If the check light does not come on, the battery is dead and has to be replaced. In addition, when the battery is dead the  symbol appears in the instrument cluster display as well as the message:

Please change key battery

Battery replacement ⇒ page 2. ■

Master key battery replacement

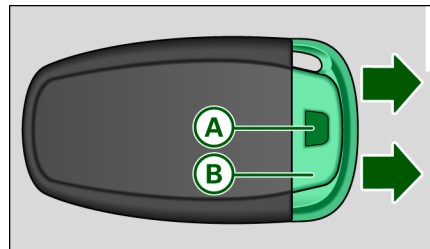


Fig. 3 Remote master key: Removing the mechanical key

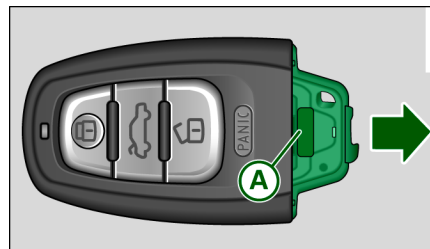


Fig. 4 Remote master key: Removing the battery holder

We recommend having the battery changed by an authorized Audi dealer. However, if you wish to replace the dead battery yourself, proceed as follows:

- Press the release button (A) ⇒ fig. 3.
- Pull the mechanical key (B) out of the master key.
- Press the release button (A) ⇒ fig. 4 on the battery holder and at the same time pull the battery holder out of the master key in the direction of the arrow.
- Install the new battery CR 2032 with the "+" sign facing down.

- Push the battery holder carefully into the master key.
- Install the mechanical key.



For the sake of the environment

Dispose of dead batteries properly so as not to pollute the environment.



Tips

The replacement battery must be the same specification as the original. ■

Removing the mechanical key

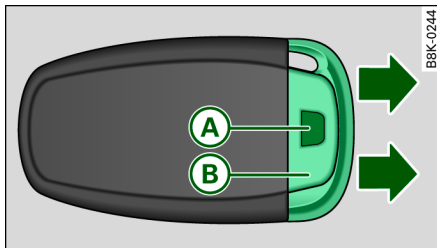


Fig. 5 Remote master key: Removing the mechanical key

- Press the release button (A) ⇒ fig. 5.
- Pull the mechanical key (B) out of the master key.

Using the mechanical key, you can

- Lock and unlock* the storage compartment on the passenger's side [Cross reference error: reference link ID='Handsuhfach' not found].
- Lock and unlock the lockable rear seat [Cross reference error: reference link ID='Rueckenlehne-abschliessen' not found].

- Lock and unlock the vehicle manually ⇒ page 9 if this should not be possible with the master key. ■

Emergency unlocking of the ignition key

In the event of malfunctions in the electrical system, it may happen that you cannot remove the ignition key.

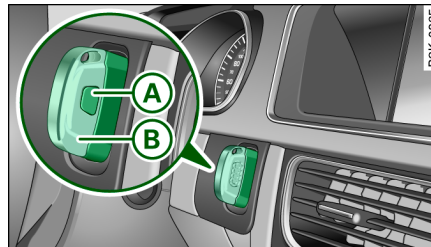


Fig. 6 Ignition switch with ignition key

If you are unable to remove the ignition key, for example because the vehicle battery is discharged, proceed as follows:

- Press the release button (A) ⇒ fig. 6 for example with a ball point pen and pull the mechanical key (B) out of the master key.
- Lock the vehicle using the mechanical key ⇒ page 9.
- Have the electrical system inspected by an authorized Audi dealership. ■

Starting the vehicle with the emergency key

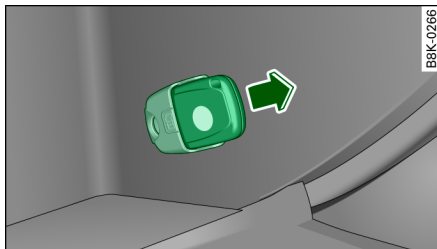


Fig. 7 Glove compartment: Adapter for emergency key

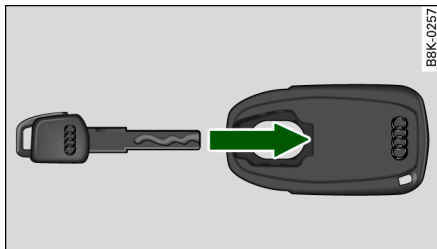


Fig. 8 Insert emergency key into the adapter

- Take the adapter for the emergency key out of the glove box ⇒ fig. 7.
- Push the emergency key ⇒ fig. 8 fully into the adapter. Make sure that the Audi rings are facing up.
- Press the emergency key in the adapter down until it latches audibly.
- Insert the adapter with the emergency key forward into the ignition switch. The engine can now be started as usual. ■

Electronic immobilizer

The immobilizer prevents your vehicle from being started by unauthorized persons.

Inside the key there is a computer chip. This chip automatically deactivates the electronic immobilizer when you insert the key in the ignition lock. When you remove the key from the ignition lock, the electronic immobilizer is automatically activated once again.

If an unauthorized key was used, **SAFE** is displayed continuously in the odometer display field.

Tips

- Your engine can only be started using the factory-equipped key.
- You may not be able to start your vehicle if an ignition key of a different vehicle make is also located on your set of keys. ■

Certification

The remote control device complies with

- **USA models:** Part 15 of the FCC Rules.
- **Canada models:** RSS-210 of Industry Canada.

Operation is subject to the following conditions:

- this device may not cause harmful interference, and
- this device must accept any interference received, including interference that may cause undesired operation.

Note

The manufacturer is not responsible for ANY RADIO OR TV interference caused by unauthorized modifications to this equipment. Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. ■

Power locking system

General description

The power locking system locks or unlocks all doors and the rear lid simultaneously.

You can lock and unlock the vehicle centrally. You have the following choices:

- Remote master key ⇒ *page 6*
- Door handles with advanced key* ⇒ *page 7*,
- Lock cylinder at the driver's door ⇒ *page 9*, or
- Power window switch inside ⇒ *page 9*.

Selective unlocking

When they are closed, the door and rear lid are locked. When unlocking, you can set in the radio or in the MMI* whether *only* the driver's door or the entire vehicle should be unlocked ⇒ *page 6*.

Automatic locking

The automatic locking feature locks all the vehicle doors and the rear lid when you drive faster than 9 mph (15 km/h).

The car is unlocked again once the ignition key is removed. In addition, the vehicle can be unlocked if the opening function in the power locking system switch or at one of the door levers is actuated. The Auto Lock function can be turned on and off in the radio or in the MMI* ⇒ *page 6*.

Additionally, in the event of a crash with airbag deployment the doors are automatically unlocked to allow access to the vehicle.

Anti-theft alarm warning system

If the anti-theft alarm warning system detects a break-in into the vehicle, acoustic and visual warning signals are triggered.

The anti-theft warning system is activated automatically when you lock the vehicle. It is deactivated when unlocking using the **remote key**, with the **mechanical key**, and when you switch on the ignition.

The alarm also turns off when the alarm cycle has expired.

Turn signals

When you unlock the vehicle, the turn signals flash twice, when you lock it once. If they do not flash, one of the doors, the rear lid or the hood is not locked.

Unintentionally locking yourself out

In the following cases there are safeguards to prevent you locking your remote master key in the vehicle:

- If a door is open, the vehicle cannot be locked using the central locking system switch ⇒ *page 9*.
- On vehicles with advanced key*, if the most recently used master key is in the luggage compartment, the rear lid is automatically unlocked again after it is closed ⇒ *page 11*.

Do not lock your vehicle with the **remote master key** until all doors and the rear lid are closed. In this way you avoid locking yourself out accidentally.

WARNING

- **When you leave the vehicle, always remove the ignition key and take it with you. This will prevent passengers (children, for example) from accidentally being locked in the vehicle should they accidentally press the power locking switch in the front doors.**
- **Do not leave children inside the vehicle unsupervised. In an emergency it would be impossible to open the doors from the outside without the key.**

Tips

- In the event of a crash with airbag deployment all locked doors will be automatically unlocked to give access to the vehicle occupants from the outside.
- If the power locking system should malfunction, you can lock the driver's door using the mechanical key ⇒ *page 10*.
- If the power locking system should fail, you can still open the fuel tank flap in an emergency [Cross reference error: reference link ID='Tankklappe-not' not found].
- You are well advised not to keep valuables inside an unattended vehicle, visible or not. Even a properly locked vehicle cannot provide the security of a safe.
- If the LED in the upper edge of the driver's door panel comes on for about 30 seconds after the vehicle is locked, there is a malfunction in the power locking or the anti-theft warning system. Have the malfunction corrected by an authorized Audi dealership or qualified repair facility. ■

Setting power locking

The driver can determine the functions for power locking in the radio or in the MMI*.

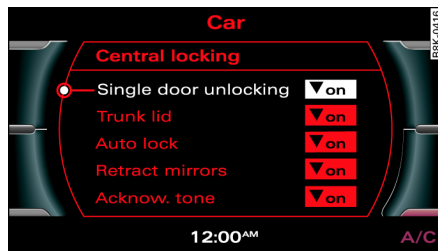



Fig. 9 MMI display: Central locking menu


In the **Central locking** menu you can decide which doors should be unlocked with the remote key, and/or the advanced key* when opening the vehicle.

- Press the  function button.
- Select **Central locking**. The **Central locking** menu appears ⇒ fig. 9.

For example, if you switch the item “Single door unlocking” **on**, the passenger's door is no longer included in the power locking system, and will not be unlocked by pressing the unlock button on the master key remote control.

You can continue to unlock all the doors and the rear lid as before. Press the opening button on the master key twice.

When locking the vehicle, all doors and the trunk lid are locked automatically.

If you switch “Trunk lid” **off**, opening the rear lid at the handle ⇒ *page 11*, fig. 17 is blocked. In this case the rear lid can be opened with the button  on the master key ⇒ fig. 10 or with the unlocking button in the driver's door ⇒ *page 11*, fig. 16. ■

Unlocking and locking the vehicle with the remote control

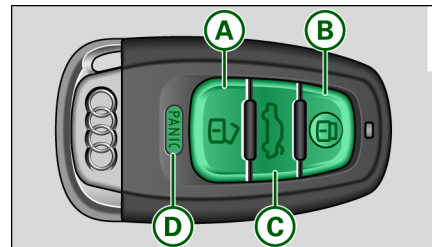







Fig. 10 Remote control: function buttons

Either the driver's door only or the entire vehicle will unlock when the unlock button (A) is pressed once, depending on the settings in the MMI **Central locking** menu ⇒ *page 6*.

- Press button  (A) to unlock the vehicle ⇒ *page 6*, fig. 10.
- Press button  (B) to lock the vehicle ⇒  in “General description” on *page 5*.
- Press button  (C) briefly to unlock the rear lid.
- Press the button  for at least one second to open the rear lid.
- Push the red **PANIC** button (D) to activate the panic function. The horn sounds and the turn signals flash. Push the red **PANIC** button again to deactivate the panic function.

If the vehicle is unlocked and no door, the rear lid or the hood is opened within 60 seconds, the vehicle locks itself again automatically. This feature prevents the vehicle from being accidentally left unlocked over a long period of time.


It depends on the settings in the radio or in the MMI* whether the entire vehicle is unlocked or only certain doors ⇒ *page 6*.

On vehicles with advanced key*, the selector lever must be in the P position, otherwise the vehicle cannot be locked.

WARNING

Read and follow all WARNINGS ⇒  in “General description” on *page 5*.

Tips

- In order to make sure the locking function is working, you should always keep your eye on the vehicle to make sure it is properly locked.
- Do not use the remote control if you are inside the car, otherwise you may unintentionally lock the vehicle, and then you would set off the anti-theft alarm when you try to start the engine or open a door. In case this happens anyhow, push the unlock button .
- Use the panic function only if you are in an emergency situation. ■

Applies to vehicles: with advanced key

Locking and unlocking with advanced key

The doors and the rear lid can be unlocked and locked without operating the master key.

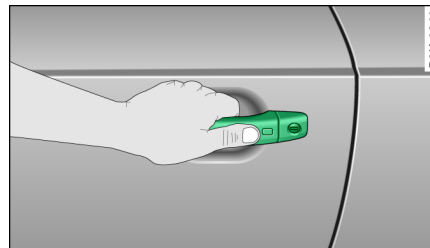


Fig. 11 Advanced key:
Unlocking vehicle door ►



Fig. 12 Advanced key:
Locking the vehicle

Unlocking vehicle

- Take hold of the door handle. The door is unlocked automatically.
- Pull the handle to open the door.

Locking vehicle

- Move the selector lever to the P position (automatic transmission), otherwise the vehicle cannot be locked.
- Touch the sensor at the door handle **once** ⇒ fig. 12 to lock the vehicle ⇒ ⚠ in “General description” on *page 5*.

The vehicle can be locked and unlocked at any door. It depends on the settings in the radio or in the MMI* whether the entire vehicle is unlocked or one of the doors ⇒ *page 6*. The master key must be within a range of about 1.5 m from the appropriate door or the rear lid. It makes no difference whether the master key is in your jacket pocket or in your brief case.

If the area of the sensor in the door handle is touched while unlocking ⇒ fig. 12, this may adversely affect the opening function.

If you grip the door handle while locking, this can adversely affect the locking function.

It is not possible to re-open the door for a brief period directly after closing it. This allows you to ensure that the doors are properly locked.

⚠ WARNING

Read and follow all WARNINGS ⇒ ⚠ in “General description” on *page 5*.

ℹ Tips

If your vehicle has been standing for an extended period, please note the following:

- The proximity sensors are deactivated after a few days to save power. You then have to pull on the door handle once to unlock the vehicle and a second time to open the vehicle.
- To prevent the battery from being discharged and to preserve your vehicle's ability to start for as long as possible, the energy management system gradually switches off unnecessary convenience functions. It is possible that you will not be able to unlock your vehicle using these convenience functions. ■

Operating locks with the mechanical key

In the event of a failure of the power locking system, the driver's door can be locked and unlocked with the mechanical key at the lock cylinder.

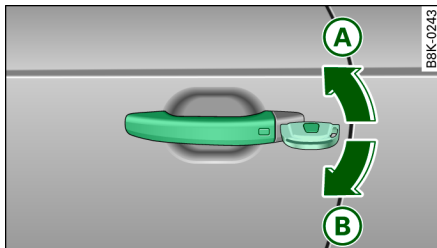


Fig. 13 Key turns for opening and closing

To unlock the vehicle

- Insert the mechanical key into the lock of the driver's door.
- Turn the mechanical key to position **A** ⇒ fig. 13.

To lock the vehicle


- Move the selector lever to the P position (automatic transmission).
- Close all windows and doors properly.
- Turn the mechanical key in the lock of the driver's door to the lock position **B** ⇒ ⚠ in "General description" on page 5.

If the power locking system fails, there is emergency locking for the passenger's door ⇒ page 10.

⚠ WARNING

Read and follow all WARNINGS ⇒ ⚠ in "General description" on page 5.



👤 Tips

- After the ignition is switched on, the power locking system switch and the unlocking button for the rear lid  in the door are enabled. ■

Locking and unlocking the vehicle from inside



Fig. 14 Drive's door: power locking switch

- Press the button  to unlock the vehicle ⇒ fig. 14.
- Press the button  to lock the vehicle ⇒ ⚠.

If you lock the vehicle using the **power locking switch**, please note the following:

- If a door is open, the vehicle cannot be locked using the power locking system switch.
- You cannot open the doors or the rear lid from the *outside* (increased security, for example when you are stopped at a red light).

- The diodes in the power locking switch illuminate when all the doors are closed and locked.
- You can unlock and open the doors from the inside by pulling on the door handle.
- If you have a crash and the airbag is activated, the doors automatically unlock.

WARNING

- **The power locking switch works with the ignition off and automatically locks the entire vehicle when it is actuated.**
- **On a vehicle locked from the outside the power locking system switch is inoperative.**
- **Locking doors from the inside can help prevent inadvertent door opening during an accident and can also prevent unwanted entry from the outside. Locked doors can, however, delay assistance to vehicle occupants and hold up rescue efforts from the outside in an accident or other emergency.**

Tips

Your vehicle is locked automatically at a speed of 9 mph (15 km/h) (Auto Lock) ⇒ *page 5*. You can unlock the vehicle again using the opening function in the power locking system switch. ■

Emergency locking of the passenger's door

If the power locking system fails (power failure), you will need to lock the passenger door separately.

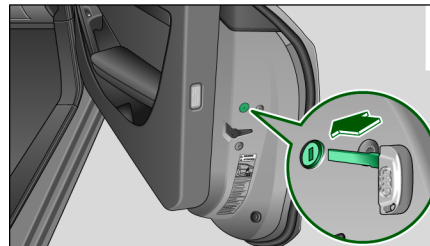


Fig. 15 Emergency locking of the passenger's door

An emergency locking mechanism is integrated in the edge of the passenger's door (only visible when the door is open).

- Take the mechanical key out of the master key ⇒ *page 3*.
- Open the door.
- Pull the protective cover out of the hole ⇒ *fig. 15*.
- Insert the mechanical key into the inner slot and turn it to the right as far as it can go.

After you close the door, you will no longer be able to open it from the outside. The door can be opened from the inside by pulling once on the door handle. ■

Opening and closing rear lid/trunk lid





Fig. 16 Driver's door: remote rear lid release




Fig. 17 Position of handle in the rear lid

Opening the rear lid

- Press the middle button  on the remote control master key for at least one second, or
- Pull the release button  in the driver's door ⇒ fig. 16. The rear lid unlocks and opens, or
- Press the handle on the rear lid ⇒ fig. 17.


Closing the rear lid

- Pull the rear lid down at the grip on the inside and allow it to drop gently to close it ⇒ .

WARNING

- After closing the rear lid, always pull up on it to make sure that it is properly closed. Otherwise it could open suddenly when the vehicle is moving.
- To help prevent poisonous exhaust gas from being drawn into the vehicle, always keep the rear lid closed while driving. Never transport objects larger than those which fit completely into the luggage area, because then the rear lid cannot be fully closed.
- Never leave your vehicle unattended especially with the rear lid left open. A child could crawl into the car through the luggage compartment and pull the lid shut, becoming trapped and unable to get out. To reduce the risk of personal injury, never let children play in or around your vehicle. Always keep the rear lid as well as the vehicle doors closed when not in use.
- Always ensure that no one is within range of the rear lid when it is moving, in particular close to the hinges - fingers or hands can be pinched.

Tips

- When the vehicle is locked, the rear lid can be opened separately by pressing the button  on the master key. When you close the rear lid again, it locks automatically.
- If the rear lid is open or not properly closed when the ignition is turned on, the door and rear lid warning [Cross reference error: reference link ID='Tuerwarnung' not found] appears in the instrument cluster display. ■

Power windows

Controls

The driver can operate the window regulator for the driver's door with the left switch and the window regulator for the passenger's door with the right switch.

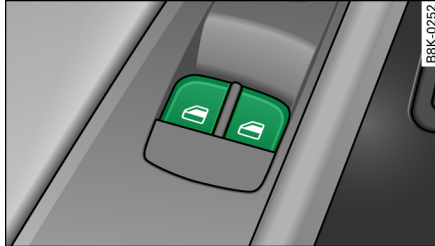


Fig. 18 Driver's door: power window switches

If the respective switch is pushed or pulled the window will open or close. The power window switches have a **two-position function**:

Opening the windows

- Push the switch to the **first stop** and hold it there until the window has lowered to the desired position.
- Push the switch briefly to the **second stop**: the window will automatically open all the way.

Closing the windows

- Pull the switch up to the **first stop** and hold it there until the window has risen to the desired position.
- Pull the switch quickly to the **second position**: the window will automatically close all the way.

WARNING

- Do not leave children unattended in the vehicle, especially with access to vehicle keys. Unsupervised use of the keys can result in starting of the engine and use of vehicle systems such as power windows, etc. which could result in serious injury.
- Remember – you can still open or close the power windows for about ten minutes after the ignition is switched off. Only when either of the doors are opened are the power windows switched off.
- Be careful when closing the windows. Check to see that no one is in the way, or serious injury could result!
- Always remove the ignition key whenever you leave your vehicle.
- If you lock your vehicle from the outside, no one, especially children, should remain in the vehicle.
- Do not stick anything on the windows or the windshield that may interfere with the driver's field of vision.

Tips

- When you open the doors, the windows automatically lower about 10 mm.
- After the ignition has been switched off, the windows can still be opened or closed for about 10 minutes. The window regulators are not switched until the driver's or passenger's door is opened. ■