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Introduction

Fuel	Designation	<input type="text"/>		
Engine oil	Grade	<input type="text"/>		
	Viscosity	<input type="text"/>		
Tyre pressure	Tyre size		Front	Rear
	Summer tyres	<input type="text"/>	<input type="text"/>	<input type="text"/>
	Winter tyres	<input type="text"/>	<input type="text"/>	<input type="text"/>
Weights	Gross vehicle weight rating	<input type="text"/>		
	- Kerb weight, basic model	<input type="text"/>		
	= Loading	<input type="text"/>		

Vehicle specific data

Please enter your vehicle's data on the previous page to keep it easily accessible. This information is available in the sections "Service and maintenance" and "Technical data" as well as on the identification plate.

Introduction

Your vehicle is a designed combination of advanced technology, safety, environmental friendliness and economy.

This Owner's Manual provides you with all the necessary information to enable you to drive your vehicle safely and efficiently.

Make sure your passengers are aware of the possible risk of accident and injury which may result from improper use of the vehicle.

You must always comply with the specific laws and regulations of the country that you are in. These laws may differ from the information in this Owner's Manual.

When this Owner's Manual refers to a workshop visit, we recommend your Saab Service Partner.

All Saab Service Partners provide first-class service at reasonable prices. Experienced mechanics trained by Saab work according to specific Saab instructions.

The customer literature pack should always be kept ready to hand in the vehicle.


Using this manual

- This manual describes all options and features available for this model. **Certain descriptions, including those for display and menu functions, may not apply to your vehicle due to model variant, country specifications, special equipment or accessories.**
- The "In brief" section will give you an initial overview.
- The table of contents at the beginning of this manual and within each chapter shows where the information is located.

- The index will enable you to search for specific information.
- This Owner's Manual depicts left-hand drive vehicles. Operation is similar for right-hand drive vehicles.
- The Owner's Manual uses the factory engine designations. The corresponding sales designations can be found in the chapter "Technical data".
- Directional data, e.g. left or right, or front or back, always relate to the direction of travel.
- The vehicle display screens may not support your specific language.
- Display messages and interior labelling are written in **bold** letters.

Danger, Warnings and Cautions

Danger

Text marked  **Danger** provides information on risk of fatal injury. Disregarding this information may endanger life.

⚠ Warning

Text marked **⚠ Warning** provides information on risk of accident or injury. Disregarding this information may lead to injury.

Caution

Text marked **Caution** provides information on possible damage to the vehicle. Disregarding this information may lead to vehicle damage.

Symbols

Page references are indicated with ↗. ↗ means "see page".

Thank you for choosing a Saab.

We wish you many hours of pleasurable driving.

Your Saab Team

Saab Automobile AB


In brief

Initial drive information

Vehicle unlocking

Remote control system



Press button  to unlock the doors and load compartment. Open the doors by pulling the handles. To open the tailgate, press the button under the tailgate moulding.

Press button ; only the load compartment is unlocked and opens.

Remote control ↗ 18, Central locking system ↗ 21, Load compartment ↗ 25.

Passive entry system



Pull the door handle to unlock the vehicle and to open the door. To open the tailgate, press the button under the moulding. The remote control needs to be on the driver's person.

Passive entry system ↗ 21.

Seat adjustment

Power seat adjustment



Operate switches.

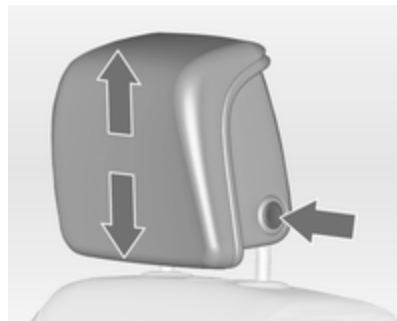
Legroom positioning = move switch (1) forwards/backwards

Height adjustment = move switch (1) upwards/downwards

Inclination adjustment = move switch (1) upwards/downwards at front

Backrest adjustment = turn switch (2) forwards/backwards

Head restraint adjustment



Press release button, adjust height, engage.

The headrest must not be in highest position, when seat is in highest position.

Head restraints ⇨ 37.

Seat belt



30049

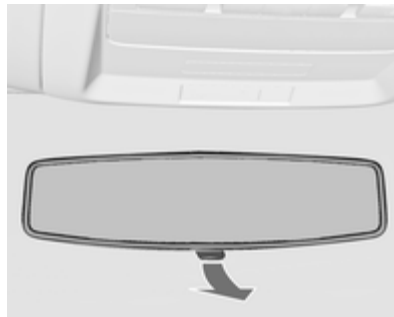
Pull out the seat belt and engage in belt buckle. The seat belt must not be twisted and must fit close against the body. The backrest should be adjusted to allow an upright driving position.

To release belt, press red button on belt buckle.

Seat position ↗ 38, Seat belts ↗ 43, Airbag system ↗ 47.

Mirror adjustment

Interior mirror



Adjust the lever on the underside of the manually adjustable mirror to reduce dazzle.

Mirror can also be adjusted in height.

Interior mirror ↗ 31, Automatic anti-dazzle interior mirror ↗ 31.

Exterior mirrors



Select the relevant exterior mirror and adjust.

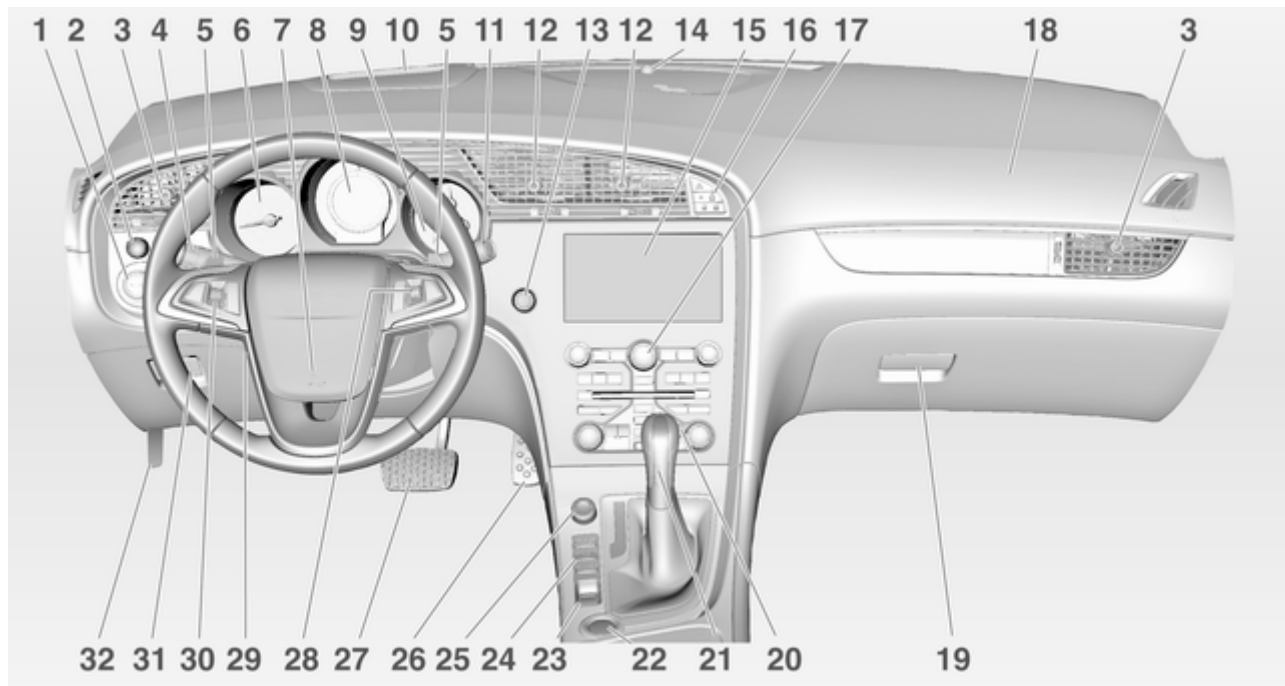
Exterior mirrors ↗ 29, Electric adjustment ↗ 29, Automatic dimming exterior mirrors ↗ 30, Folding exterior mirrors ↗ 29, Heated exterior mirrors ↗ 30.

Steering wheel adjustment



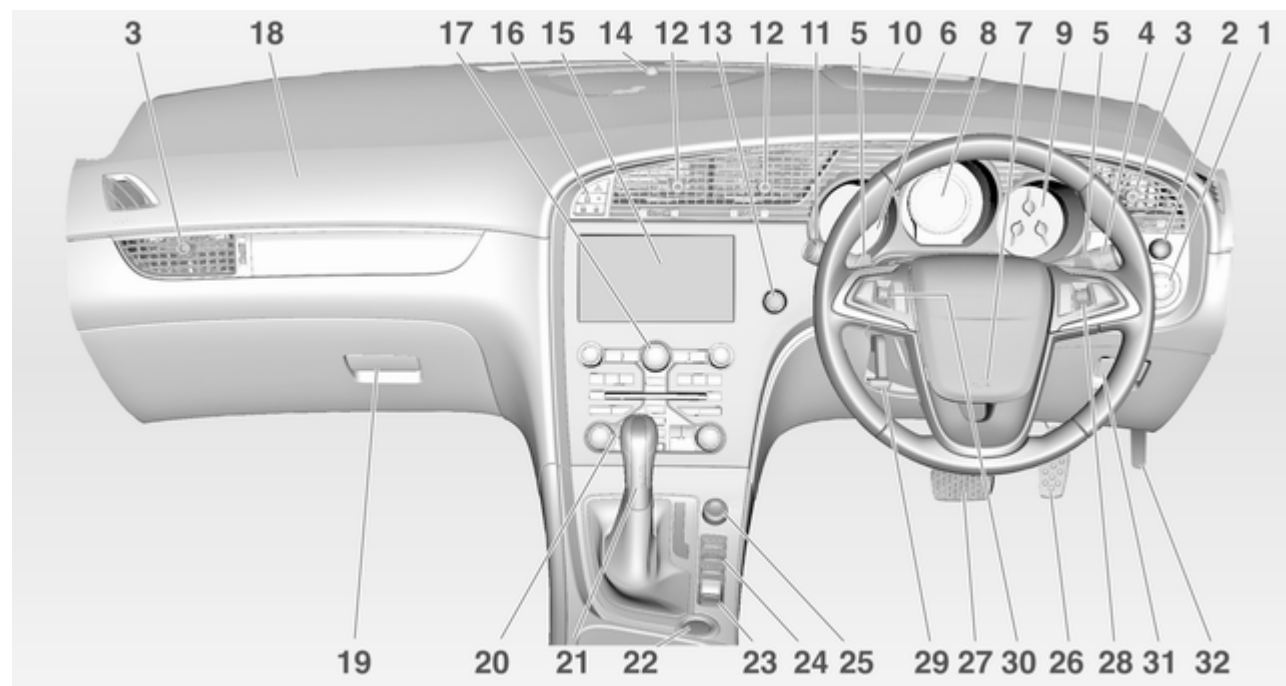
Unlock lever, adjust steering wheel, then engage lever and ensure it is fully locked. Do not adjust steering wheel unless vehicle is stationary and steering wheel lock has been released.

Airbag system ⇨ 47.



Instrument panel overview

1	Light switch	109	11	Windscreen wiper, windscreen washer system, headlight washer system	70	25	Traction Control system	139
	Front fog lights	113					Electronic stability program	135
	Instrument illumination	114	12	Center air vents	126		Drive sense	140
2	Head-Up display operation switch	90	13	Night panel	114	26	Accelerator pedal	129
3	Side air vents	126	14	Anti-theft alarm system status LED	27	27	Brake pedal	137
4	Turn and lane-change signals, headlight flash, low beam and high beam ...	112	15	Info-Display	87	28	Audio/Phone controls	69
	Exit lighting	117	16	Hazard warning flashers ...	112	29	Steering wheel adjustment ...	69
	Parking lights	113		Child locks	25	30	Cruise control	142
	Driver Information Center	85		Central locking system	21	31	Storage compartment, fuse box	172
5	Steering wheel shifter for automatic transmission	134	17	Infotainment system	10	32	Bonnet release lever	156
6	Tachometer	75	18	Front passenger airbag	49			
7	Horn	70	19	Glovebox	59			
	Driver airbag	49	20	Climate control system	119			
8	Speedometer	75	21	Selector lever, automatic transmission	133			
	Odometer	75	22	Start/Stop button	130			
	Driver Information Center	85	23	Parking brake	138			
9	Fuel gauge	76	24	Universal parking assist ...	143			
	Boost gauge	76		Advanced parking aid	143			
	Engine coolant temperature gauge	76		Lane departure warning ...	148			
10	Head-Up display	90						



Exterior lighting



Turn light switch

☉ = Activation or deactivation of the automatic light control

Auto = Automatic light control: Headlights are switched on and off automatically.

☉☉ = Parking lights

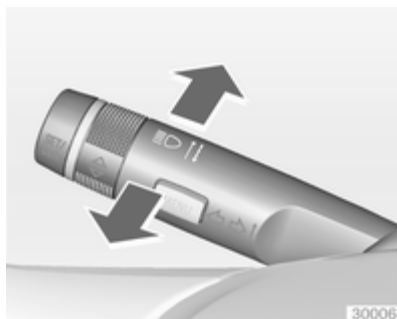
☉☉☉ = Headlights

Press

☉☉☉☉ = Front fog lights

Lighting ⇨ 109.

Headlight flash, high beam and low beam



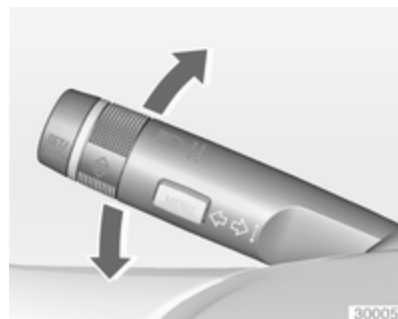
Headlight flash = pull lever

High beam = push lever

Low beam = push or pull lever

Automatic light control ⇨ 110, High beam ⇨ 110, Headlight flash ⇨ 110.

Turn and lane-change signals




Right = lever up

Left = lever down

Turn and lane-change signals
⇨ 112, Parking lights ⇨ 113.

Hazard warning flashers



Operated with the  button.
Hazard warning flashers ⇨ 112.

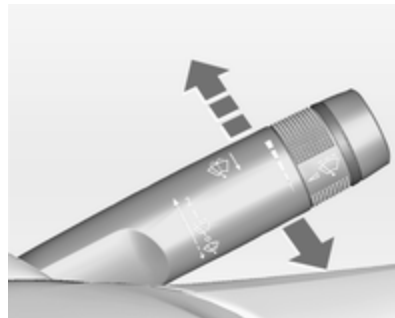
Horn




Press .

Washer and wiper systems

Windscreen wiper



- 2** = fast
- 1** = slow
-  = timed interval wiping or automatic wiping with rain sensor
- O** = off

For a single sweep when the windscreen wiper is off, press the lever down.

Windscreen wiper ⇨ 70, Wiper blade replacement ⇨ 162.

Windscreen and headlight washer systems

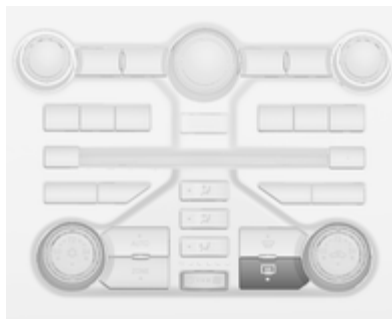



Pull lever.

Windscreen and headlight washer system ⇨ 70, Washer fluid ⇨ 160.

Climate control

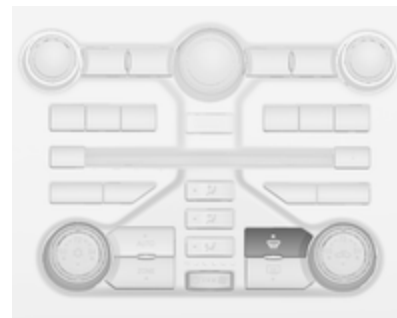
Heated rear window, heated exterior mirrors



Heating is operated by pressing the  button.


Heated rear window ⇨ 34.

Demisting and defrosting the windows



Press button .

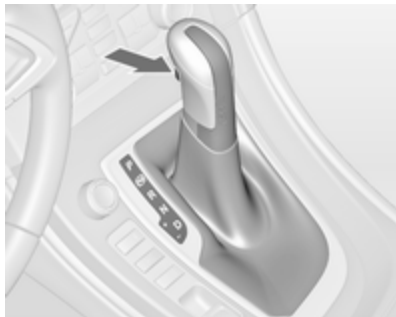
Temperature and air distribution are set automatically and the fan runs at high speed.

Press heated rear window button  as required.

Climate control system ⇨ 119.

Transmission

Automatic transmission



P = Park
R = Reverse
N = Neutral
D = Drive

Manual mode: move selector lever from **D** to the left.

+ = Higher gear
- = Lower gear

On some versions manual mode can be operated with shifters **+** **-** on the steering wheel.

The selector lever can only be moved out of **P** when the ignition is on and the brake pedal is applied. To engage **P** or **R**, push the release button.

Automatic transmission ⇨ 133.

Starting off

Check before starting off

- Tyre pressure and condition
⇨ 176.
- Engine oil level and fluid levels
⇨ 159.
- All windows, mirrors, exterior lighting and number plates are free from dirt, snow and ice and are operational.
- Proper position of mirrors, seats, and seat belts ⇨ 29, ⇨ 38, ⇨ 45.
- Brake function at low speed, particularly if the brakes are wet.

Starting the engine




- The remote control needs to be in the compartment.
- Press and hold brake pedal and move selector lever in **P** or **N**.
- Push **Start/Stop** button.


Push button again while engine is running to switch off the engine.

Starting the engine ⇨ 130.

Parking

- Always apply parking brake. Pull switch  on the center console.
- When the ignition has been switched off and the vehicle is stationary, the steering wheel lock activates automatically when the driver's door is opened.
- If the vehicle is on a level surface or uphill slope, set the selector lever to **P** before switching off the ignition. On an uphill slope, turn the front wheels away from the kerb.

If the vehicle is on a downhill slope, set the selector lever to **P** before switching off the ignition. Turn the front wheels towards the kerb.

- Lock the vehicle with button  on the remote control. Passive entry system: Touch the sensor field of the exterior door handle of one of the front doors to lock the vehicle. Activate the anti-theft alarm system ⇨ 27.

- Do not park the vehicle on an easily ignitable surface. The high temperature of the exhaust system could ignite the surface.
- Close windows and sunroof. Comfort operating ⇨ 21
- The engine cooling fans may run after the engine has been switched off ⇨ 156.
- After running at high engine speeds or with high engine loads, operate the engine briefly at a low load or run in neutral for approx. 30 seconds, before switching off in order to protect the turbocharger.

Remote control ⇨ 18, Store the vehicle for a long period of time ⇨ 155.

Keys, doors and windows

Keys, locks	18
Doors	25
Vehicle security	27
Exterior mirrors	29
Interior mirrors	31
Windows	32
Roof	34

Keys, locks

Radio remote control



Makes a keyless operation of the following functions possible

- Central locking system, remote controlled or passive entry function ⇨ 21
- Starting the engine ⇨ 130
- Anti-theft alarm system ⇨ 27
- Load compartment ⇨ 25

- Vehicle location/Panic alarm
- Comfort operating functions for
 - ◆ Mirror folding
 - ◆ Power windows
 - ◆ Sunroof

The remote control has an approximate range of up to 164 ft. It can be restricted by external influences. The hazard warning flashers confirm operation.



Handle with care, protect from moisture and high temperatures and avoid unnecessary operation.

Vehicle location/Panic alarm



Press button  once to locate the vehicle.

The parking lights, the front fog lights and the reverse lights illuminate for 30 seconds.

Press and hold button  for at least three seconds to activate the panic alarm. The horn sounds and the turn signals flash for 30 seconds or until  is pressed again or the ignition is switched on.


Memorised settings

Whenever the ignition is switched off and the driver's door will be opened, the following settings are automatically remembered by the remote control unit:

- Power seats
- Power mirrors
- Head up display settings

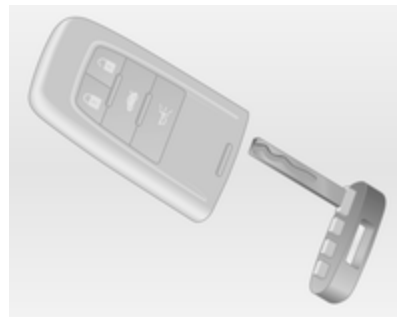
The saved settings are automatically used the next time the vehicle is unlocked and the ignition is switched on.

Power seats will move in the saved position by unlocking and opening the driver's door.

Precondition is, that **Personalization by driver**, or depending on the display type, **Personalization by remote control** in the personal settings of the Info-Display is activated. This must be set for each used remote control unit. Vehicle personalisation  99

Integrated mechanical key


The remote control unit contains an integrated mechanical key which can be used as an emergency key to unlock or lock driver's door, if the remote control or the passive entry system fails.



To remove the key, press the button at the bottom of the remote control unit. Extract cap with the key blade out of the remote control. Never pull the key out without pressing the button.

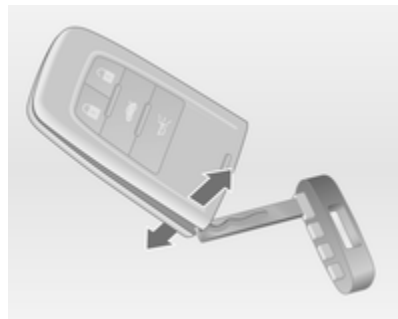
Fault in Remote Control system or Passive entry system  21.

Battery replacement of remote control

Replace the battery as soon as the range reduces. A necessary battery change is indicated as vehicle message in the Driver Information Center (DIC)  93.

Caution

When replacing the battery, do not touch any of the circuitry on the transmitter. Static from your body could damage the transmitter.



1. Press the button on the remote control and extract the key blade from the housing.
2. Open the unit by using the key blade to separate the two halves of the remote control housing.

3. Replace the battery (battery type CR2032), paying attention to the installation position (positive side facing down). Do not use a metal object.

4. Snap the halves of the housing back together to close the unit.

Synchronise the unit after battery change, see below .

Batteries do not belong in household waste. They must be disposed of at an appropriate recycling collection point.

Synchronisation of remote control

After replacing the battery, unlock the door with the mechanical key in the driver's door lock. The remote control will be synchronised when you switch on the ignition.

Fault

If the central locking system does not operate, it may be due to the following:

- Fault in remote control ⇨ 18
- Range exceeded
- Battery voltage too low
- Frequent, repeated operation of the remote control while not in range, which will require re-synchronisation
- Overload of the central locking system by operating at frequent intervals, the power supply is interrupted for a short time
- Interference from higher-power radio waves from other sources
- Passive entry: remote control out of reception range, change the position of the remote control

Unlocking ⇨ 21.

Replacement remote control unit

The remote control unit number is specified on a detachable tag.

This number must be quoted when ordering replacement remote control unit as it is a component of the immobiliser system.

Central locking system

Unlocks and locks doors, load compartment and fuel filler flap.

A pull on an interior door handle unlocks the respective door. Pulling the handle once more opens the door.

Note

In the event of an accident in which airbags or belt pretensioners are deployed, the vehicle is automatically unlocked.

There are two ways to operate the central locking system:


- Remote control system
- Passive entry system

Remote control system

Direct the remote control unit to the vehicle.

Unlocking



Press button  to unlock all doors, load compartment and fuel filler flap,

Locking

Close doors, load compartment and fuel filler flap.



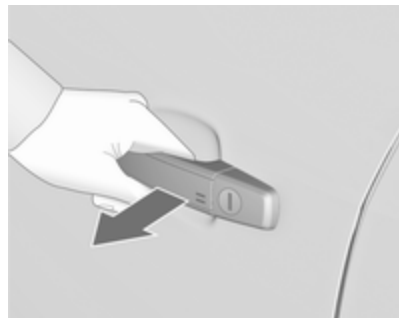
Press button .

If the driver's door is not closed properly, the central locking function will not work.

Passive entry system

The remote control must be outside the vehicle, within a range of approximately 3 ft.

Unlocking

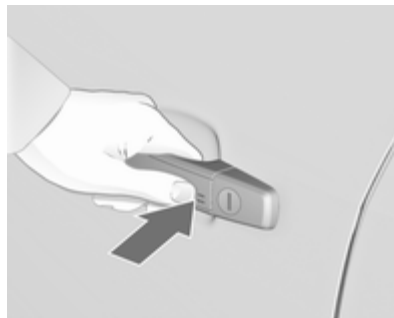


Pull an exterior door handle or press the button under the tailgate moulding.

All doors, load compartment and fuel filler flap are unlocked.

The thumb may not touch the sensor area on the door handle while unlocking.

Locking



Touch the sensor field of the exterior door handle on one of the front doors.

All doors, load compartment and fuel filler flap are locked.

If the driver's door is not closed properly, the central locking system will not work.

3 seconds must pass before the vehicle can be unlocked. Within this time, it is possible to check whether the vehicle is locked.

Note

The passive entry system does not lock the vehicle automatically.

The sensor fields in the door handles must be kept clean to ensure unrestricted functionality.

Unlocking and opening the tailgate



Press button . The tailgate opens. All other doors remain locked.

Remote control system: the tailgate can also be opened manually by pushing the button under the tailgate moulding, if the vehicle has been unlocked with the remote control.

Passive entry system: to open the tailgate push the button under the tailgate moulding. All doors will be unlocked.

Central locking buttons in the passenger compartment

Locks or unlocks all doors, the load compartment and fuel filler flap from the passenger compartment.



Press the  button to lock.
Press the  button to unlock.

Automatic locking after driving on

This security feature can be configured to automatically lock all doors, load compartment and fuel filler flap as soon as the vehicle starts to drive.

Activation or deactivation of automatic locking can be set in the menu **Settings** in the Graphic-Info-Display or **Vehicle** in the Colour-Info-Display. Vehicle personalisation ↗ 99.

Automatic locking when leaving the vehicle

This comfort feature can be configured to automatically lock all doors, load compartment and fuel filler flap a short time after the doors are closed when leaving the vehicle.

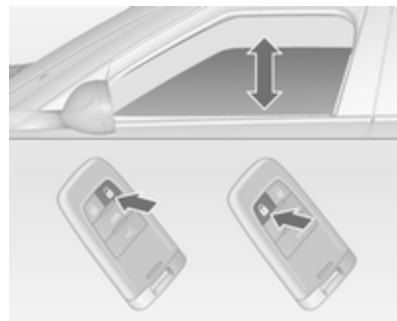
Activation or deactivation of automatic locking can be set in the menu **Settings** in the Graphic-Info-Display or **Vehicle** in the Colour-Info-Display. Vehicle personalisation ↗ 99.


Settings can be changed in the menu **Settings** in the Info-Display. Vehicle personalisation ↗ 99.


Comfort operating


(Only available, if vehicle is equipped with safety function for all power windows, ↗ 32.)

The windows, sunroof and foldable mirrors can be operated with the remote control from outside the vehicle.




Press and hold  button to open windows, sunroof and fold out outside mirrors.



Press and hold  button to close windows, sunroof and fold in outside mirrors.


Activation or deactivation of mirror folding settings can be set in the menu **Settings** in the Graphic-Info-Display or **Vehicle** in the Colour-Info-Display. Vehicle personalisation  99.

Basic settings

Some settings of the Central locking system can be changed in the menu **Settings** in the Graphic-Info-Display or **Vehicle** in the Colour-Info-Display. Vehicle personalisation  99.


Fault in remote control system or passive entry system


If either the remote control fails or the battery of the Remote Control is weak, the driver's door can be locked or unlocked with the mechanical key  18. The Driver Information Center may display **No Remote Detected** or **Replace Battery in Remote Key** when you try to start the vehicle. Starting the engine  130.

The following instructions are intended for emergencies only. Replace the remote control battery as soon as possible  18


Unlocking



Manually unlock the driver's door by turning the key in the lock, position **(1)** in graphic. Switch on the ignition and press the central locking button  to unlock all doors, load compartment and fuel filler flap. On vehicles with anti-theft alarm system, the alarm may be triggered when the

vehicle is unlocked. By switching on the ignition the alarm is deactivated  130.


Locking

Press the  button to lock all doors, load compartment and fuel filler flap.

Close and manually lock the driver's door by turning the key in the lock, position **(2)** in graphic.

Fault in central locking system

Unlocking

Manually unlock the driver's door by turning the mechanical key in the lock, position **(1)** in graphic. The other doors can be opened by pulling the interior handle twice. The load compartment and fuel filler flap cannot be opened. On vehicles with anti-theft alarm system, the alarm may be triggered when the vehicle is unlocked. Deactivate the alarm by switching on the ignition  130.

Locking


Push inside locking knob of all doors except driver's door. Then close the driver's door and lock it from the outside with the mechanical key, position (2) in graphic. The fuel filler flap and tailgate cannot be locked.


Child locks



Warning

Use the child locks whenever children are occupying the rear seats.

Press button  to activate child lock on rear doors. Activation is indicated by the LED in the button. The rear doors cannot be opened from the inside.

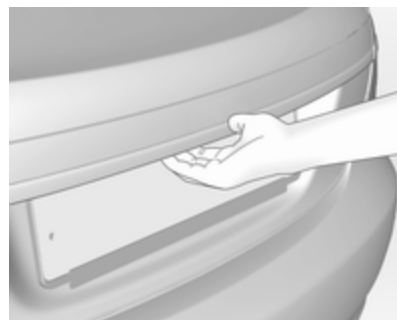
For deactivation press button  again, the LED will be off.


Doors

Load compartment

Tailgate


Opening



Remote control system: after unlocking the vehicle by pressing the button  push the button under the tailgate moulding. The tailgate opens.

Passive entry system: to open the tailgate push the button under the tailgate moulding. All doors will be unlocked.



With remote control press button . The tailgate opens.

Central locking system ⇨ 21.

Closing



Use the interior handle.

Central locking system ⇨ 21.

Emergency release handle for the tailgate



There is an emergency release handle located inside the load compartment above the latch of the tailgate. Pull the handle to open the tailgate from the inside.

The handle will glow following exposure to light.

Caution

The tailgate release handle is not designed to be used to tie down the tailgate or as anchor point for securing items in the load compartment. Improper use of the handle could damage it.

General hints for operating the tailgate**⚠ Warning**

Do not drive with the tailgate open or ajar, e.g. when transporting bulky objects, since toxic exhaust gases, which can not be seen or smelled, could enter the vehicle. This can cause unconsciousness and even death.

Note

The installation of certain heavy accessories onto the tailgate may affect its ability to remain open.

Vehicle security**Anti-theft alarm system**


The anti-theft alarm system monitors:

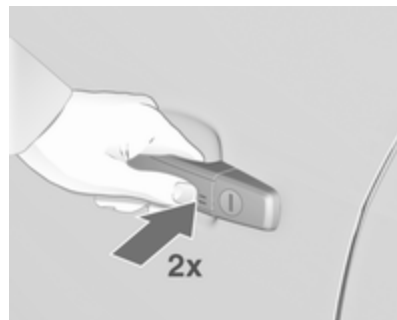
- Doors, tailgate, bonnet
- Ignition

Activation

Close doors, load compartment and fuel filler flap.



- Self-activated 30 seconds after locking the vehicle (initialisation of the system)
- Remote control: by pressing  once more immediately after locking
- Passive entry system: by touching the sensor field of the front door exterior handle once more immediately after locking.

**Note**

Changes to the vehicle interior such as the use of seat covers, and open windows or sunroof, could impair the function of passenger compartment monitoring.

Status LED



Status LED is integrated in the sensor on top of the instrument panel.

Status during the first 30 seconds of anti-theft alarm system activation:


- LED illuminates = test, arming delay.
- LED flashes quickly = doors, tailgate or bonnet not completely closed, or system fault.

Status after system is armed:

- LED flashes slowly = system is armed.
- LED flashes quickly 3 times after unlocking = system is disarmed.

Seek the assistance of a workshop in the event of faults.

Deactivation


Unlocking the vehicle by pressing button  on the remote control or, in case of passive entry system, by pulling the front door exterior handle, deactivates anti-theft alarm system.

Central locking system  21

Alarm

When triggered, the alarm sounds and the hazard warning lights flash simultaneously. The number and duration of alarm signals are stipulated by legislation.


The alarm can be silenced by pressing any button of the remote control or by switching on the ignition.

The anti-theft alarm system can be deactivated only by pressing button  or by switching on the ignition.

Immobiliser

The system is part of the engine electronics and checks whether the vehicle is allowed to be started with the remote control being on the driver's person or in the compartment.

The electronic immobiliser is going to be activated automatically after the ignition has been switched off.

If the control indicator  flashes when the ignition is on, there is a fault in the system; the engine cannot be started. Switch off the ignition and then repeat the start attempt.

If the control indicator continues flashing, attempt to start the engine using the other remote control and seek the assistance of a workshop.

Note

The immobiliser does not lock the doors. You should always lock the vehicle after leaving it and switch on the anti-theft alarm system ↗ 21, ↗ 27.

Do not leave the remote control unit in the vehicle.

Control indicator 🗑 ↗ 84.

Exterior mirrors

Convex shape

The convex exterior mirror reduces blind spots. The shape of the mirror makes objects appear smaller, which will affect the ability to estimate distances.

Electric adjustment



Select the relevant exterior mirror by turning the control to left **(L)** or right **(R)**. Then swivel the control to adjust the mirror.

In position **0** no mirror is selected.

Folding



For pedestrian safety, the exterior mirrors will swing out of their normal mounting position if they are struck with sufficient force. Reposition the mirror by applying slight pressure to the mirror housing.

Electric folding

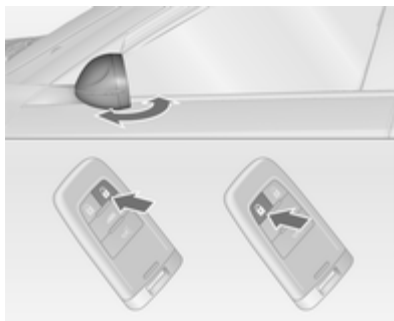


Turn control to **O**, then push the control down. Both exterior mirrors will fold.

Push the control down again - both exterior mirrors return to their original position.

If an electrically folded mirror is manually extended, pressing down the control will only electrically extend the other mirror.

Folding mirrors by comfort operating



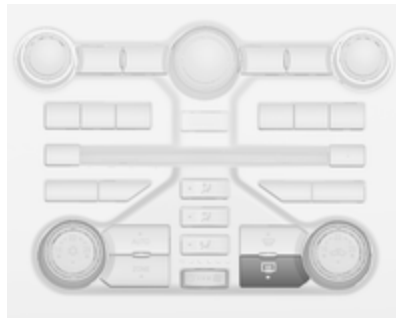
Press and hold  to fold in mirrors.


Press and hold  to fold out mirrors.

Simultaneously the windows and, if available, the sunroof will start to close/open.

This function can be activated or deactivated in the menu **Settings** in the Graphic-Info-Display or **Vehicle** in the Colour-Info-Display. Vehicle personalisation ↪ 99.

Heated



Heated mirrors are operated by pressing the  button.

Heating works with the engine running and is switched off automatically after a short time.

Automatic dimming

Dazzle from following vehicles at night is automatically reduced by dimming both exterior mirrors.

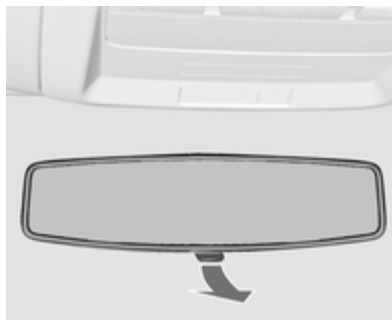
Parking assist

The exterior mirror on the passenger side is automatically aimed at the rear tyres as a parking aid when reverse gear is selected.

This function can be activated or deactivated in the menu **Settings** in the Graphic-Info-Display or **Vehicle** in the Colour-Info-Display. Vehicle personalisation ⇨ 99.

Interior mirrors

Manual anti-dazzle



To reduce dazzle, adjust the lever on the underside of the mirror housing.

Automatic anti-dazzle



Dazzle from following vehicles at night is automatically reduced.

Windows

Power windows

Warning

Take care when operating the power windows. Risk of injury, particularly to children.

If there are children on the rear seats, switch on the child safety system for the power windows.

Keep a close watch on the windows when closing them. Ensure that nothing becomes trapped in them as they move.

Switch on ignition mode to operate power windows.



Operate the switch for the respective window by pushing to open or pulling to close.

Operating front windows and rear windows with safety function

Pushing or pulling gently to the first detent: window moves up or down as long as the switch is operated.

Pushing or pulling firmly to the second detent and then releasing: window moves up or down automatically with enabled safety function. To stop movement, operate the switch once more in the same direction.

Operating rear windows without safety function

Pushing or pulling gently to the first detent: window moves up or down as long as the switch is operated.

Pushing firmly to the second detent and then releasing: window moves down automatically. To stop movement, push the switch once more. Hold switch pulled to close the window without safety function.

Safety function



If the window glass encounters resistance during automatic closing, it is immediately stopped and opened again.

Override safety function

In the event of closing difficulties due to frost or the like, pull and hold the switch. The window moves up without safety function. To stop movement, release and pull the switch once more.

Child safety system for rear windows

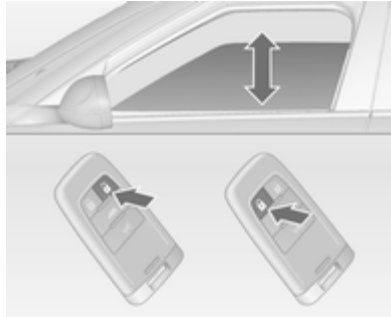


Press  to deactivate power switches in the rear doors, the LED illuminates. The rear windows are only operable by the switches in the driver's door. To activate, press  again.


Comfort operating

(Only available, if vehicle is equipped with safety function for all windows.)

The windows can be operated remotely from outside the vehicle.



Press and hold  button to open windows.

Press and hold  button to close windows.

Simultaneously, if available, the mirrors will start to fold in/out and the sunroof will start to close/open.

Activation or deactivation of mirror folding settings can be set in the menu **Settings** in the Graphic-Info-Display or **Vehicle** in the Colour-Info-Display. Vehicle personalisation ⇨ 99.

Overload

If the windows are repeatedly operated within short intervals, the window operation is disabled for some time.

Initialising the power windows

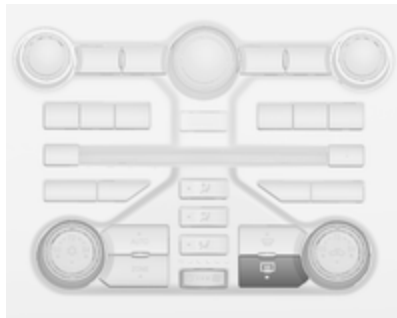
If the windows cannot be closed automatically (e.g. after disconnecting the vehicle battery), a warning message is displayed in the Driver Information Center.

Vehicle messages ⇨ 93.

Activate the window electronics as follows:

1. Close doors.
2. Switch on ignition.
3. Open the window completely.
4. Close the window completely and keep the switch pulled for additional 2 seconds.
5. Repeat for each window.

Heated rear window



Operated by pressing the  button.

Heating works with the engine running and is switched off automatically after a short time.

In the menu **Settings** in the Graphic-Info-Display the function **Auto rear demist** or in the menu **Vehicle** in the Colour-Info-Display the function **Auto rear demist** can be activated or deactivated. This function switches on the rear window heating automatically depending on the outside temperature. Vehicle personalisation ↪ 99.

Automatic rear window demist

↪ 119

Sun visors

The sun visors can be folded down or swivelled to the side to prevent dazzling.

Sun visors swivelled to the side can be adjusted in length.

If the sun visors have integral mirrors, the mirror covers should be closed when driving.

Roof

Sunroof


Warning


Take care when operating the sunroof. Risk of injury, particularly to children.

Keep a close eye on the movable parts when operating them. Ensure that nothing becomes trapped in them as they move.





Open

Press  gently to the first detent: sunroof is opened to the spoiler position.

Press  firmly to the second detent and then release: the sunroof is opened automatically with enabled safety function. To stop movement, operate the switch once more.

Close


Press  gently to the first detent: sunroof is closed from full open or spoiler position.

Press  firmly to the second detent and then release: the sunroof is completely closed automatically with enabled safety function. To stop movement, operate the switch once more.

Sunblind

The sunblind is power operated.



Close or open the sunblind by pressing button  or .

General hints


Function standby

Switch on ignition to operate the sunroof or sunblind.

Safety function

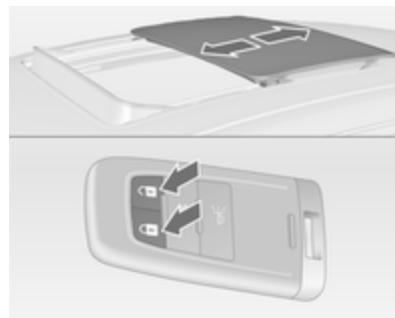
If the sunroof or sunblind encounters resistance during automatic closing, it is immediately stopped and opened again.

Override safety function

In the event of closing difficulties due to frost or the like, hold the switch  pressed. The sunroof closes without safety function. To stop movement, release the switch.

Comfort operating

The sunroof can be operated remotely from outside the vehicle.



Press and hold  button to close the sunroof.



Press and hold  button to tilt the sunroof.

Simultaneously, if available, the mirrors will start to fold in/out and the windows will start to close/open.

Activation or deactivation of mirror folding settings can be set in the menu **Settings** in the Graphic-Info-Display or **Vehicle** in the Colour-Info-Display. Vehicle personalisation ➤ 99.




Initialising of the roof

If the sunroof cannot be closed (e.g. after disconnecting the vehicle battery), activate the sunroof electronics as follows:



- If sunroof is closed, keep the switch  pressed for 10 seconds.
- If sunroof is open, keep the switch  pressed until sunroof is fully closed. Then release switch shortly and press it again for 10 seconds.

Relearning of safety function

If the sunroof does not close correctly after initialising:

1. Open sunroof fully by pressing switch .
2. Release switch and then press again switch  gently to the first detent for approx. 30 seconds. Then close sunroof by pressing switch  until the sunroof is fully closed.

Initialising and relearning of the power operated sun blind

Repeat the previous steps using the switches  for closing and  for opening.

Seats, restraints

Head restraints	37
Front seats	38
Rear seats	43
Seat belts	43
Airbag system	47
Child restraints	54

Head restraints

Active head restraints on front seats

The front seats are equipped with active head restraints, so-called **SAHR 3**.

In the event of a rear end collision the front part of head restraint is moved forward to support the head, so the risk of neck injury is reduced.

After a collision the head restraint automatically resets to original position.

Position

⚠ Warning

Only drive with the head restraint set to the proper position.

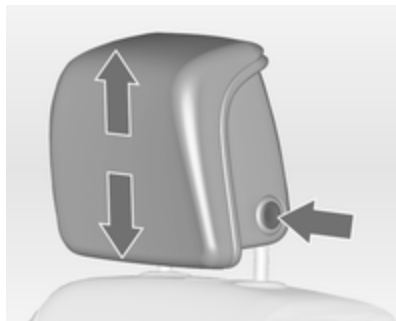
Adjust the head restraint so that the head is optimally supported and the center of the head restraint is at ear height, thus reducing the likelihood of neck injury in a crash.

Raise the head restraints in the seats that are occupied.



Adjustment

Head restraints on front seats



Height adjustment

Press the button, adjust height and engage.

Note

Approved accessories may only be attached, if the seat is not in use.

Head restraints on rear seats



Height adjustment

Pull the head restraint upwards or press the catch to release and push the head restraint downwards.

Front seats

Seat position

⚠ Warning

Only drive with the seat correctly adjusted.



- Sit with buttocks as far back against the backrest as possible. Adjust the distance between the seat and the pedals so that legs are slightly angled when pressing the pedals.

- Slide the front passenger seat as far back as possible while maintaining correct position for the safety belt ⇨ 43.
- Sit with shoulders as far back against the backrest as possible. Set the backrest rake so that it is possible to easily reach the steering wheel with arms slightly bent. Maintain contact between shoulders and the backrest when turning the steering wheel. The backrest should be adjusted to allow an upright driving position.
- Adjust the steering wheel ⇨ 69.
- Adjust the backrest upright during driving, so that the seat belt, airbag and backrest can provide optimum protection in the event of emergency braking or a crash, in particular a rear-end crash.
- Set seat height high enough to have a clear field of vision on all sides and of all display instruments. Your thighs should rest lightly on the seat without pressing into it.
- Adjust the head restraint ⇨ 37.
- Adjust the height of the seat belt ⇨ 45.
- Adjust the thigh support so that there is a space approx. two fingers wide between the edge of the seat and the hollow of the knee.
- Adjust the lumbar support so that it supports the natural shape of the spine.

Power seat adjustment

Warning

Care must be taken when operating the power seats. The seats are actuated by powerful motors. There is a risk of injury, particularly for children. Articles could become trapped.

Never leave the remote control in the vehicle when leaving the vehicle! Risk of injury to unsupervised persons in event of power seat adjustment.

Bear in mind that children can be injured if they play with the electrically operated seats.

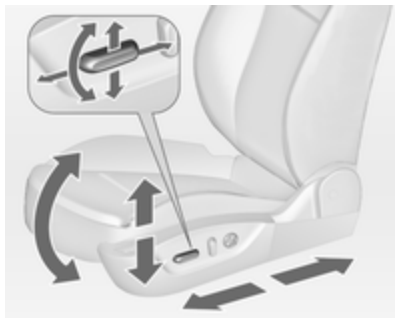
Keep a close watch on the seats when adjusting them. Vehicle passengers should be informed accordingly.

⚠ Danger

Do not sit nearer than 10 inches to the steering wheel, to permit safe airbag deployment.

Caution

When adjusting seat height, make sure that the head restraint is so adjusted, that the roof panel is not damaged.

**Legroom positioning**

Move switch forwards/backwards.

Seat height adjustment

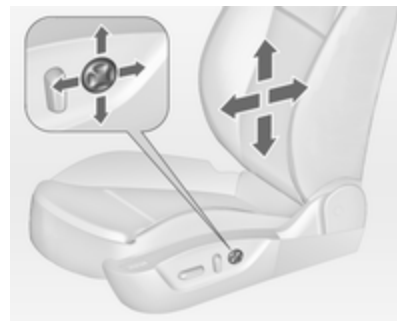
Move switch upwards/downwards at rear.

Seat inclination adjustment

Move switch upwards/downwards at front.

Seat backrests adjustment

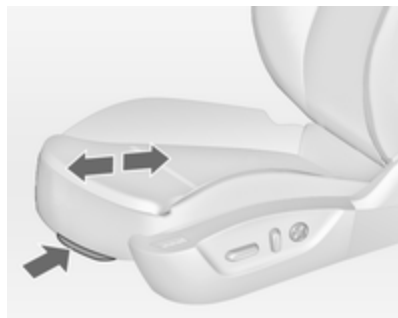
Turn switch forwards/backwards.

Lumbar support

Adjust lumbar support using four-way switch to suit personal requirements.

Moving support up and down: push switch up or down. Increasing and decreasing support: push switch forwards or backwards.

Adjustable thigh support



Pull the lever and slide the thigh support.

Memory function for front power seats adjustment and exterior mirrors

Two different seat and mirror settings can be stored.

Memorised settings ⇨ 18, Vehicle personalisation ⇨ 99.



Storing settings

- Adjust driver seat first and then exterior mirrors.
- Keep memory button **MEM** pressed and then press position button to be used (**1** or **2**). Storage is acknowledged by an acoustic signal.

Retrieving settings

- Keep position button **1** or **2** pressed until the stored seat and mirror positions have been reached.

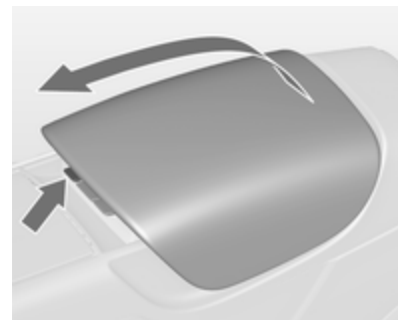
Overload

If the seat setting is electrically overloaded, the power supply is automatically cut off for a short time.

Note

After an accident in which airbags have been deployed, the position buttons will be deactivated.

Armrest

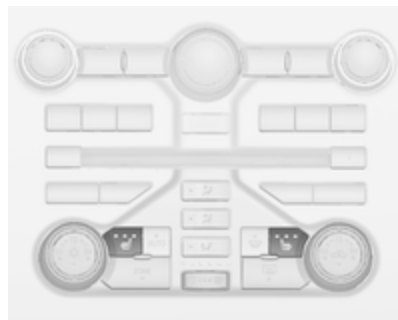



Push right button to swivel armrest front- or rearwards.

Under the armrest there is a storage compartment ➔ 60.

Auxiliary devices, see description for Infotainment system.

Heating



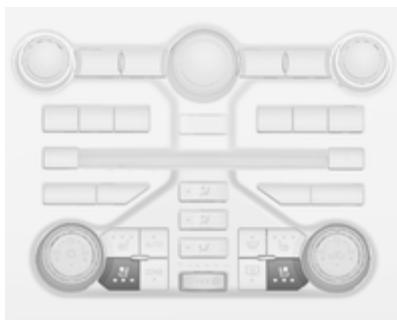
Adjust seat heating to the desired setting by pressing the  button for the respective front seat one or more times in **Ignition on** mode. The control indicator in the button indicates the setting.


Prolonged use of the highest setting for people with sensitive skin is not recommended.

Seat heating is operational when engine is running.

Seat heating and seat ventilation can not be used simultaneously.

Ventilating



Adjust seat ventilation to the desired setting by pressing the  button for the respective front seat one or more times in **Ignition on** mode.

The control indicator in the button indicates the setting.

Ventilated front seats are operational when engine is running.

Seat ventilation and seat heating can not be used simultaneously.

Rear seats

Armrest



Fold armrest down. The armrest contains cupholders and a storage box.

Seat belts

The seat belts are blocked during heavy acceleration or deceleration of the vehicle holding the occupants in the sitting position. Thereby the risk of injury is considerably reduced.

⚠ Warning

Buckle up and adjust your seat belt before driving off so that you can pay full attention to the traffic.

Seat belts must be worn at all times by all occupants and before each trip.

Child safety, ⇨ 54.

Check that the locking tongue is properly locked in the belt lock.

In the event of a crash, a rear-seat passenger not wearing a seat belt will be thrown forward against the front-seat backrests. The stresses imposed on the front seat passengers and belts are multiplied and can result in needless injury or even death for all car occupants.

Seat belts are designed to be used by only one person at a time.

Periodically check all parts of the belt system for damage and proper functionality.

Have damaged components replaced. After a crash, have the belts and triggered belt pretensioners replaced by a workshop.

⚠ Danger

If the car is involved in a crash, the safety belts, belt tensioners, airbags and other components must be inspected, preferably by your authorized dealer and replaced as necessary.

Never make alterations or repairs to the safety belts and airbags yourself. It is recommended that you visit your authorized dealer for any necessary repairs.

Note

Make sure that the belts are not damaged by shoes or sharp-edged objects or trapped. Prevent dirt from getting into the belt retractors.

Seat belt reminder  80.

Correct position for seat belt



⚠ Warning

Proper positioning of the seat belt is extremely important.

Position the lap strap snugly and low across the hips so that it just touches the thighs. The shoulder strap must be as far in on the shoulder as possible.

An out of position seat belt can result in the wearer sliding underneath the belt in a crash (submarining) and injury can result from the lap portion cutting into the abdomen.

Never fasten the seat belt with the shoulder belt behind the body or pull the belt off the shoulder and under the arm.

There should not be any slack in the belt. Pull the belt tight – particularly important when thick

outer clothing is worn. It is advisable to remove thick items of clothing.

Two people must never share one seat belt. In the event of a crash those sharing a belt risk being crushed together and injured.

Children up to 6 years of age must always be seated in a child seat. Saab recommends the use of a child seat for children up to the age of 10. Use a child seat that is approved for child's weight and height.

Children who have grown out of a child seat should be restrained by the car's standard three-point belts. Make sure that the shoulder belt is not in contact with the neck or throat. If it is, a booster seat/cushion may be necessary.


Belt pretensioners

In the event of a collision of a certain severity, the front seat belts are tightened.

Belt pretensioners are also available for the rear outboard seat belts.

⚠ Warning

Incorrect handling (e.g. removal or fitting of belts) can trigger the belt pretensioners.

Deployment of the belt pretensioners is indicated by illumination of control indicator  81.

Belt pretensioners can only be triggered once.

Note

Do not affix or install accessories or other objects that may interfere with the operation of the belt pretensioners.

Belt force limiters

On the front seats, stress on the body is reduced by the gradual release of the belt during a collision.

Belt force limiters are also available for the rear outboard seating positions.

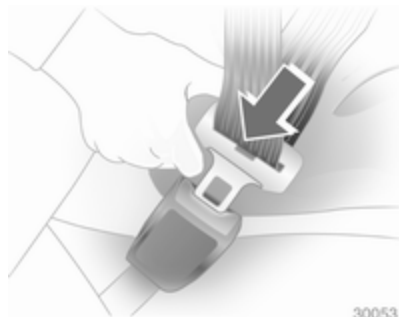
Three-point seat belt

Fastening



Withdraw the belt from the retractor, guide it untwisted across the body and insert the latch plate into the buckle. Position the lap strap tightly and low across the hips so that it just touches the thighs. The shoulder strap must be as far in the shoulder as possible. Tighten the lap strap regularly whilst driving by pulling the shoulder belt.

Seat belt reminder  80



Loose or bulky clothing prevents the belt from fitting snugly. Do not place objects such as handbags or mobile phones between the belt and your body.

⚠ Warning

The belt must not rest against hard or fragile objects in the pockets of your clothing.

Never fasten the safety belt with the shoulder belt behind the body or pull the belt off the shoulder or under the arm.

Height adjustment

Adjust the belt so that it is as high up as possible without rubbing against the neck. To avoid chafing in the case of a short person, the guide can be lowered until the belt comes about an inch (a few centimeters) from the throat but still provides safe restraint.



1. Pull belt out slightly.
2. Press button.
3. Adjust height and engage.



Do not adjust while driving.

Removing



To release belt, press red button on belt buckle.

Seat belts on the rear seats

The seat belt for the rear centre seat can only be withdrawn from the retractor if the backrest is in the upright position.

Make sure that the backrests are locked ➔ 62.

Seat belt use during pregnancy



Pregnant women must always wear a seat belt to protect both themselves and the unborn child.

⚠ Warning

The lap belt must be placed low, across the hips and over the upper thighs, to prevent pressure on the abdomen.

Airbag system

⚠ Warning

To reduce risk of death or serious injury:

Always wear your safety belt.

Always adjust your seat so that you are as far back as possible but still able to operate the pedals and reach the steering wheel and controls comfortably.

Passengers age 12 and under or shorter than 59 inches must always travel in the rear seat as the car is fitted with a passenger airbag.

Never fit a child seat on the front passenger seat with active passenger front Airbag.

The airbag system consists of a number of individual systems depending on the scope of equipment.

When triggered the airbags inflate within milliseconds. They also deflate so quickly that it is often unnoticeable during the collision.

Warning

If handled improperly the airbags may inflate unexpectedly.

Danger

If the car is involved in a crash, the safety belts, belt tensioners, airbags and other components must be inspected, preferably by your authorized dealer and replaced as necessary.

Never make alterations or repairs to the safety belts and airbags yourself. It is recommended that you visit your authorized dealer for any necessary repairs.

Note

Do not stick anything on the airbag covers and do not cover them with other materials.

Each airbag is triggered only once.

Control indicator  for airbag systems  81.



Seat occupancy recognition  51.

Airbag safety hints

Warning

- All car occupants must always wear a seatbelt, even if the car is equipped with airbags.
- Note that because the front and side airbags inflate and deflate extremely quickly, it will not provide protection against a second impact occurring in the same incident. Always wear your seatbelt.
- The gas that fills the airbag on inflation is quite hot. In some circumstances, this gas can cause minor burns on the arms when the airbag deflates.
- Fumes are generated by the chemical reaction that inflates the airbag. Skin surfaces that show signs of irritation should be washed with clean water and a mild soap as soon as possible. In the event of eye irritation, flush the eyes thoroughly with clean

water for at least 20 minutes. In case of persistent irritation, consult a doctor.

- Never attach anything to the steering wheel, fascia or roof pillars as this could cause personal injury when an airbag inflates. The same applies to anything you might have in your mouth, such as a pipe.
- Never rest your hands or forearms on the steering wheel where the airbag is fitted.
- If the airbag control indicator  in the main instrument panel does not extinguish after the car has been started, or comes on or flashes while driving, have the car checked immediately. We recommend that you contact an authorised Saab workshop. The airbag control indicator , when illuminating, indicates that the system may fail to function in a collision or could be activated erroneously.

Front airbag system

The front airbag system consists of one airbag in the steering wheel and one in the instrument panel on the front passenger side. These can be identified by the word **AIRBAG**.



There is also a warning label on the front passenger door frame, visible when the front passenger door is open. On some country-specific versions the warning label can also be located on the passenger sun visor.

Danger

Never fit a child seat in the front passenger seat when the airbag is **on**.

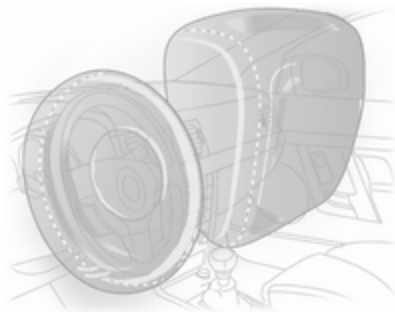
Death or serious injury can occur.

Children shorter than 5 ft should never sit in front of an active airbag.

Child safety ⇨ 54.

The front airbag system is triggered in the event of a front-end impact of a certain severity. The ignition needs to be switched on.

In a frontal collision of a certain severity the curtain airbags will also be triggered ⇨ 50.



The inflated airbags cushion the impact, thereby reducing the risk of injury to the upper body and head of the front seat occupants.

⚠ Warning

Always wear your safety belt.

Optimum protection is only provided when the seat is in the proper position ⇨ 38.

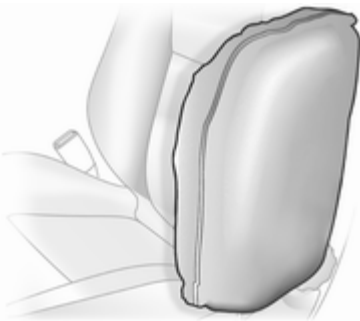
Keep the area in which the airbag inflates clear of obstructions.

Fit the seat belt correctly and engage securely.

Side airbag system

The side airbag system consists of an airbag in each front seat backrest and, if equipped, in the rear outboard seat backrests. This can be identified by the label **AIRBAG**.

The side airbag system is triggered in the event of a side impact of a certain severity. The ignition needs to be switched on.



The inflated airbags cushion the impact, thereby reducing the risk of injury to the upper body and pelvis in the event of a side-on collision.

⚠ Warning

Keep the area in which the airbag inflates clear of obstructions.

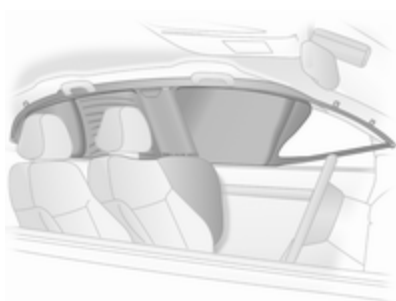
Caution

Never fit seat covers. Seat covers can prevent the side airbags from inflating correctly and providing the intended extra protection.

Curtain airbag system

The curtain airbag system consists of an airbag in the roof frame on each side. This can be identified by the label **AIRBAG** on the roof pillars.

The curtain airbag system is triggered in the event of a side, front or rollover impact of a certain severity. The ignition needs to be switched on.



The inflated airbags cushion the impact, thereby reducing the risk of injury to the head in the event of a side, front or rollover impact.

⚠ Warning

Keep the area in which the airbag inflates clear of obstructions.



The hooks on the handles in the roof frame are only suitable for hanging up light articles of clothing, without coat hangers. Do not keep any items in these clothes.

Do not sit with your head rested against the side window. The inflatable curtain is designed to inflate between the window and the head. Resting the head against the window could prevent the inflatable curtain from providing the intended protection.

Do not attach anything to the car's headlining, roof pillars or side panels as this could prevent the side impact protection from providing the intended protection.

Seat occupancy recognition

Passenger Sensing System

Vehicles with a passenger sensing system have indicator LEDs on the roof console. The indicators will both be lit during the system check when the ignition is switched on. When the system check is complete, either the control indicator  on or  off, will be lit.

The passenger sensing system will turn off the right front passenger's frontal airbag under certain conditions.

The driver's airbags are not part of the passenger sensing system.

The passenger sensing system works with sensors that are part of the right front passenger's seat and safety belt. The sensors are designed to detect the presence of a properly-seated occupant and determine if the passenger's frontal airbag should be enabled (may inflate) or not.

Accident statistics show that children are safer if they are restrained in the rear rather than the front seat.



Saab recommends that child restraints be secured in a rear seat, including an infant riding in a rear-facing infant seat, a child riding in a forward-facing child seat and an older child riding in a booster seat.

Your vehicle has a rear seat that will accommodate a rear-facing child restraint. A label on your sun visor says, "Never put a rear-facing child seat in the front." This is because the risk to the rear-facing child is so great, if the airbag deploys.

⚠ Warning

A child in a rear-facing child restraint can be seriously injured or killed if the right front passenger's airbag inflates. This is because the back of the rear-facing child restraint would be very close to the inflating airbag.

Even though the passenger sensing system is designed to turn off the passenger's frontal airbag if the system detects a rear-facing child restraint, no system is fail-safe, and no one can guarantee that an airbag will not deploy under some unusual circumstance, even though it is turned off. Saab recommends that rear-facing child restraints be secured in the rear seat, even if the airbag is off.

The passenger sensing system is designed to turn off the right front passenger's frontal airbag if:

- the right front passenger seat is unoccupied
- the system determines that an infant is present in a rear-facing infant seat
- the system determines that a small child is present in a forward-facing child restraint
- the system determines that a small child is present in a booster seat
- a right front passenger takes his/her weight off of the seat for a period of time
- the right front passenger seat is occupied by a smaller person, such as a child who has outgrown child restraints
- or if there is a critical problem with the airbag system or the passenger sensing system.

When the passenger sensing system has turned off the passenger's frontal airbag, the off indicator will light and stay lit to remind you that the airbag is off.

Saab recommends that child restraints be secured in a rear seat, but if a child restraint has been installed and the on indicator is lit, turn the vehicle off. Remove the child restraint from the vehicle and reinstall the child restraint following the child restraint manufacturer's directions and refer to installation of child restraint using the standard safety belt.

If after reinstalling the child restraint and restarting the vehicle, the on indicator is still lit, check to make sure that the vehicle's seatback is not pressing the child restraint into the seat cushion. If this happens, slightly recline the vehicle's seatback and adjust the seat cushion if possible. Also make sure the child restraint is not trapped under the vehicle head restraint. If this happens, adjust the head restraint.

If the on indicator is still lit, secure the child in the child restraint in a rear seat position in the vehicle and check with your dealer.

The passenger sensing system is designed to enable (may inflate) the right front passenger's frontal airbag anytime the system senses that a person of adult size is sitting properly in the right front passenger's seat. When the passenger sensing system has allowed the airbag to be enabled, the on indicator will light and stay lit to remind you that the airbag is active.

For some children who have outgrown child restraints and for very small adults, the passenger sensing system may or may not turn off the right front passenger's frontal airbag, depending upon the person's seating posture and body build. Everyone in your vehicle who has outgrown child restraints should wear a safety belt properly - whether or not there is an airbag for that person.

If a person of adult-size is sitting in the right front passenger's seat, but the off indicator is lit, it could be because that person is not sitting properly in the seat. If this happens, turn the vehicle off and ask the person to place the seatback in the fully upright position, then sit upright in the seat, centered on the seat cushion, with the person's legs comfortably extended. Restart the vehicle and have the person remain in this position for about two minutes. This will allow the system to detect that person and then enable the passenger's airbag.

Warning

If the airbag readiness light in the instrument panel cluster ever comes on and stays on, it means that something may be wrong with the airbag system. If this ever happens, have the vehicle serviced promptly, because an adult-size person sitting in the right front passenger's seat may not have the protection of the frontal airbag.

Aftermarket equipment, such as seat covers, can affect how well the passenger sensing system operates. You may want to consider not using seat covers or other aftermarket equipment if your vehicle has the passenger sensing system. See Adding Equipment to Your Airbag-Equipped Vehicle for more information about modifications that can affect how the system operates.

Warning

Stowing of articles under the passenger's seat or between the passenger's seat cushion and seatback may interfere with the proper operation of the passenger sensing system.

Child restraints

Child restraint systems

Child safety hints

Danger

- Children can be killed or seriously injured by the airbag.
- The rear seat is the **SAFEST** place for children age of 12 and under or shorter than 55 inches.
- **ALWAYS** use safety belts and child restraints.
- **NEVER** put a rear-facing child seat in the front.
- Sit as far back as possible from the airbag.

Seat occupancy recognition ⇨ 51.

Car safety hints

Warning

- Never leave children unattended in the car, not even for a short period of time. Children and animals can suffer heat stroke, and even die, in a very short space of time. Children can cause the car to move and injure themselves and others.
- Remove the remote control when refuelling.
- Do not let children climb onto or under the car.
- Make sure no children are standing behind the car when reversing into or out of a garage or driveway.
- Never let the car idle in a garage due to the risk of carbon monoxide poisoning.

- Keep an eye on children while washing the car. Small children can drown in a matter of minutes in only small quantities of water.
- Only allow children to enter and exit the car at the side facing away from the traffic.

Warning

- Make sure children do not get locked in the luggage compartment.
- Teach children not to play in or around cars.
- Keep an eye on children when loading or unloading the luggage compartment to prevent inadvertently locking children in the car.
- Always lock the car and keep the remote control out of reach of children.
- Keep the rear seat backrests raised to prevent children from crawling into the luggage compartment from the cabin.

General information on child safety

The same attention must be given to child safety in the car as is given to adults.

Children travel most safely when properly restrained. However, the type of restraint must be appropriate for the size of the child. We recommend that you always consult your Saab dealer before fitting a child seat, child restraint or booster cushion.

The backseat is the safest place for children.

Make sure you are acquainted with the legal requirements for seating children in the car.



When fitting child restraints in cars you must always read the instructions supplied by the child restraint manufacturer.

Make sure that it is possible to fit a child restraint in accordance with the manufacturer's child restraint instructions.

Saab recommends the use of a rear-facing child seat for as long as this is possible - for all children under 40 lbs as a minimum. Use a child seat approved for the weight of the child.

Saab recommends the use of a booster seat for children up to the length of 55 inches or the weight of 80 lbs.

Danger

When using a child restraint system on the front passenger seat, the front airbag for the front passenger seat must be turned off and the control indicator  **off** must be lit; if not, or if  **on** lits, the triggering of the front airbag poses a risk of fatal injury to the child.

This is especially the case if rear-facing child restraint systems are used on the front passenger seat.

Selecting the right system

The rear seats are the most convenient location to fasten a child restraint system.

Children up to 6 years of age must always be seated in a child seat. Saab recommends the use of a child seat

for children up to the age of 10. Use a child seat that is approved for child's weight and height.

Children who have grown out of a child seat should be restrained by the car's standard three-point belts. Make sure that the shoulder belt is not in contact with the neck or throat. If it is, a booster seat/cushion may be necessary.

Saab recommends that specially designed safety equipment is used for children shorter than 4.6 ft.

Children must use specially designed safety equipment. The safety equipment must be suitable for the size of the child.

Saab recommends to contact an authorised Saab dealer before fitting a carrycot, child seat or booster cushion.

Some rear-facing child seats require underside anchorage straps. Contact your authorised Saab dealer to find out how to attach the child seat in your car.

Ensure that the child restraint system to be installed is compatible with the vehicle type.

Ensure that the mounting location of the child restraint system within the vehicle is correct.

Allow children to enter and exit the vehicle only on the side facing away from the traffic.

When the child restraint system is not in use, secure the seat with a seat belt or remove it from the vehicle.

Note

Do not stick anything on the child restraint systems and do not cover them with any other materials.

A child restraint system which has been subjected to stress in an accident must be replaced.

Child restraint installation locations

Latch system

LATCH (Lower Anchorages & Top tethers for CHildren) is a US/ Canadian safety standard for a uniform method of fitting child restraints without using the standard safety belts. Only certain child restraints are equipped to utilize the LATCH system.

The LATCH system is installed in the car to facilitate proper fitting of child restraints designed for and equipped with LATCH attachments.

The LATCH system consists of top tether and lower anchorages.

The top tethers are located on top of the parcel shelf. The lower anchorages are located in the crease between the seatback and the seat cushion. There is a label above the anchorages. Label consists of a symbol of a child restrained in a seat inside a circle. Additionally there are lower anchorage points under the driver or passenger seat.

When fitting child restraints in cars you must always read the instructions supplied by the child restraint manufacturer. If you have any questions regarding LATCH please contact your Saab dealer.

Lower anchorage points

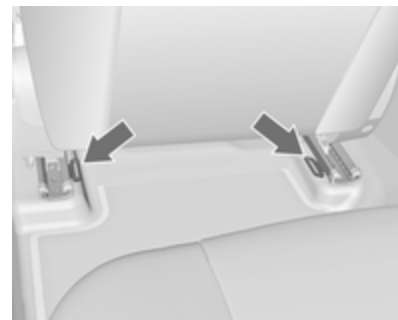
Rear facing child seats can be fastened on the outer rear seats or on the passenger seat, when the Airbag is turned off ⇨ 51.

Therefor the underside straps of the child seat must be additionally fixed and tensioned at the lower anchorage points.

Danger

Do not attach the child seat anchorage straps to the car seat release handle.



Fitting on the rear seat



The underside anchorage straps of a rear-facing child seat must be attached to the anchorage points under the driver or passenger seat.

Fitting on the passenger seat

⚠ Danger

When using a child restraint system on the front passenger seat, the front airbag for the front passenger seat must be turned off and the control indicator  **off** must be lit; if not, or if  **on** lits, the triggering of the front airbag poses a risk of fatal injury to the child.

Saab recommends that child restraints be secured in the rear seat, even if the airbag is turned off.



The underside anchorage straps of a rear-facing child seat must be attached to the anchorage points on the front edges of the passenger seat.

Use only these provided anchorage points when mounting a child seat which has underside anchorage straps.


Anchorage points on the rear seats



Fasten vehicle-approved child restraint systems to the mounting anchorages in the crease between the seatback and the seat cushion.

Mounting anchorages are indicated by a label on the backrest.

Top-tether anchorage points

Fasten Top-tether child restraint systems to the fastening anchorages behind the rear head restraints. Top-tether fastening anchorages are marked with the symbol .



Open the flap of the needed fastening anchorage.

In addition to the lower mounting fasten the Top-tether strap to the Top-tether fastening anchorage. The strap must run between the two guide rods of the head restraint.

Storage

Storage compartments	59
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Roof rack system	66
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Storage compartments

Glovebox



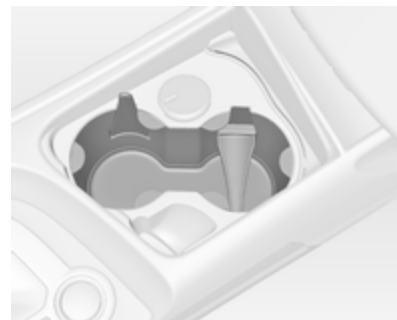
Pull the grip to open the glove box lid.
The glovebox should be closed whilst driving.

Cupholders

Cupholders are located in the front centre console.



To open the console push on the front end of the cover.

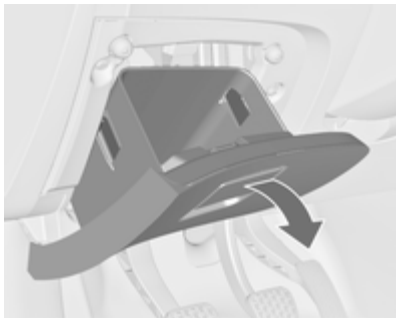


Fold in the bracket for the height adjustment before adopting a small cup in the cupholder.



Additional cupholders are located in the rear armrest, when it is folded down.

Front storage

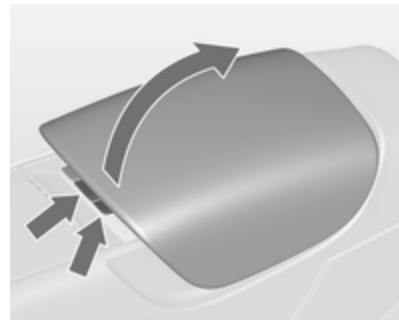


A storage compartment is located next to the steering wheel.

To open pull the grip.

Armrest storage

Storages in the front armrest

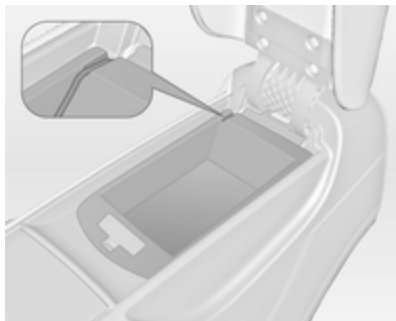


On some versions the front armrest contains two storages.

Pull left button to open a small storage.

Pull middle button to fold up the armrest containing a large storage.

Inside the large storage there is a CD slot.



The small storage contains a cable duct right from the hinge. If depositing a mobile phone or media player in the storage, put the cable inside the duct. Another cable duct is in the front part of the armrest.

Storage in the rear armrest



Fold down armrest and open cover.
Close cover before folding the armrest up.

Centre console storage

Rear console



There is a storage compartment in the rear center console in front of the rear seats.

Load compartment

Folding down rear seat backrests

The rear seat backrest is divided into two parts. Both parts can be folded down.

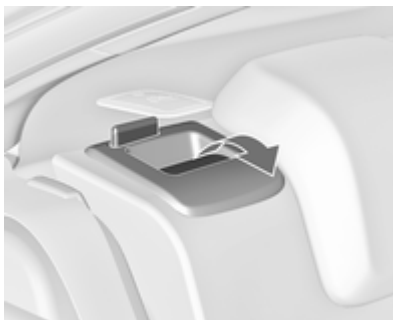
Press and hold the catch, then push the head restraints down.

Fold up the rear armrest.



Put the seat belts of the outboard seats into the belt guides.

Pull the release lever on one or both sides and fold down the backrests onto the seat cushion.



To fold up, raise backrests and guide them into an upright position until they engage audibly.

Ensure that the seat belts of the outboard seats are placed in the corresponding belt guides.



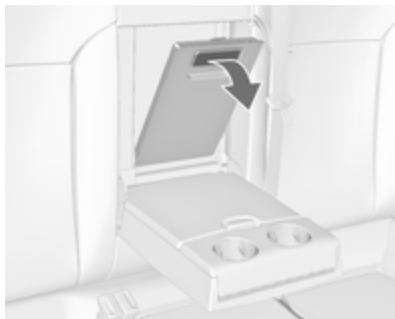
The backrests are properly engaged when both red marks on the side near the release lever are no longer visible.

Warning

Never drive the car if the backrests are not securely locked into position, as this increases the risk of personal injury or damage to the load or car in the event of heavy braking or a collision.

Opening the pass-through in the rear centre backrest

Fold down rear armrest.



Pull grip and open the cover.

Suitable for loading long, narrow objects.

Ensure the cover engages after folding up.



The closed cover can be secured from the side of the load compartment. Turn knob by 90°:

Knob horizontal = cover secured from the side of the passenger room

Knob vertical = cover not secured

Lashing eyes



The lashing eyes are designed to secure items against slippage, e.g. using lashing straps or luggage net.

Cargo management system

Load compartment divider

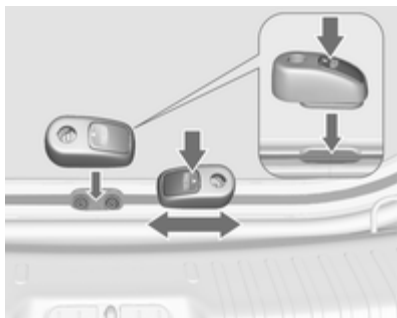
The vehicle can be equipped with a load compartment dividing system. It is a movable system that divides the load compartment into two flexible parts.

⚠ Warning

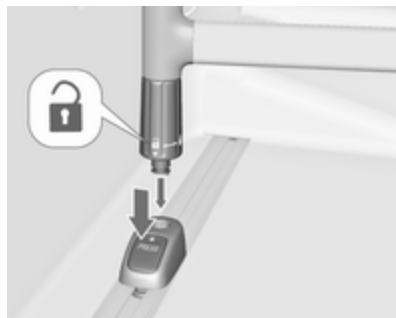
The load compartment divider system keeps luggage items in place during driving and is not designed to keep items in position during a collision.


Always make sure that the load is securely stowed. When securing heavy objects always use only the lashing eyes.

Do not use the load compartment divider components in combination with lashing straps attached to lashing eyes to secure heavy objects.

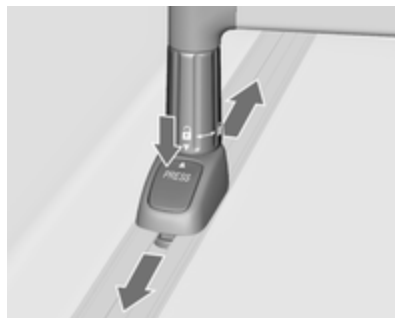
Mounting the divider in the rail

Insert both adapter with the small end mirrorwise into the rail in the load compartment bottom. Thereby use the entry in the rail and press the button in the adapter while inserting it.



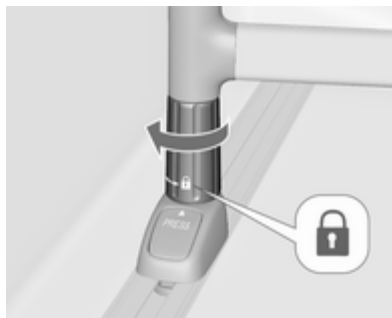
Insert the retainer into the adapter while pressing the button. Note that the arrow on the catch  is in accordance with the arrow on the adapter. Repeat the procedure with the retainer on the other side.

Sliding the divider



Press the button on each adapter one after another and slide the divider in the rail of the load compartment.

The catch must not be locked while sliding the divider in the rail.



After adjusting the divider, turn the catch of each retainer clockwise as firmly as possible.

Removing

Remove the load compartment divider in reverse order.

The button on the adapter must be pressed to release the divider from the adapter.

Umbrella and grocery-bag holder



Pull the hook from the holder. Put the umbrella into to the holder, pass the strap belt around it and fit the hook into the holder.

The hook can be hinged down. In this position grocery-bags can be hanged up.

There are two more grocery-bag holder on the left and right side of the load compartment.

Warning triangle



Stow the warning triangle in the space behind the straps on the inside of the tailgate.

First aid kit

Saloon



Remove the cover from the storage box on the right side of the load compartment. Stow the first aid kit in the box.

There is also place for the owner's manual next to the first aid kit.

On the left side of the load compartment there is also a storage box.

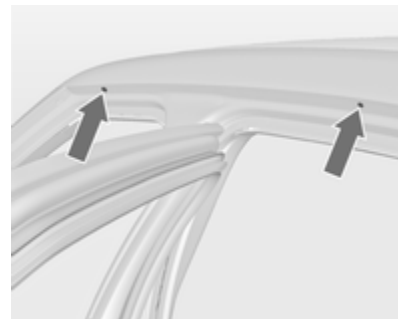
Roof rack system

Roof rack

For safety reasons and to avoid damage to the roof, the vehicle approved roof rack system is recommended.

Follow the installation instructions and remove the roof rack when not in use.

Mounting roof rack



Open all doors.

Mounting points are located in each door frame of the vehicle body.

Fasten the roof rack with the attached screws.

Loading information



- Heavy objects in the load compartment should be placed against the seat backrests. Make sure that the backrests are securely engaged, hence no longer showing the red markings on the side near the release lever. If objects can be stacked, heavier objects should be placed at the bottom.
- Secure objects with lashing straps attached to lashing eyes ➞ 63.
- Secure loose objects in the load compartment to prevent from sliding.
- When transporting objects in the load compartment, the backrests of the rear seats must not be angled forward.
- Do not place any objects behind the rear head restraints or the instrument panel, and do not cover the sensor on top of the instrument panel.
- The load must not obstruct the operation of the pedals, parking brake switch and gear selector, or hinder the freedom of movement of the driver. Do not place any unsecured objects in the interior.

- Do not drive with an open load compartment.

Warning

Always make sure that the load in the vehicle is securely stowed. Otherwise objects can be thrown around inside the car and cause personal injury or damage to the load or car.

- The payload is the difference between the permitted gross vehicle weight (see identification plate ⇨ 200) and the EC kerb weight.
To calculate the EC kerb weight, enter the data for your vehicle in the Weights table, on page ⇨ 3.
The EC kerb weight includes weights for the driver (150 lbs), luggage (15 lbs) and all fluids (tank 90 % full).
Optional equipment and accessories increase the kerb weight.

- Driving with a roof load increases the sensitivity of the vehicle to cross-winds and has a detrimental effect on vehicle handling due to the vehicle's higher centre of gravity. Distribute the load evenly and secure it properly with retaining straps. Adjust the tyre pressure and vehicle speed according to the load conditions. Check and retighten the straps frequently.

The permissible roof load is 220 lbs. The roof load is the combined weight of the roof rack and the load.

Instruments and controls

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Controls

Steering wheel adjustment



Unlock lever, adjust steering wheel, then engage lever and ensure it is fully locked.

Do not adjust steering wheel unless vehicle is stationary and steering wheel lock has been released.

Steering wheel controls



The Cruise control, the Infotainment system, settings for the OnStar® System and the Automatic transmission can be operated via the controls on the steering wheel.

Infotainment system: further information is available in the separate manual.

Cruise control ⇨ 142.

OnStar® ⇨ 104

Automatic transmission steering wheel shifter ⇨ 133.

Horn




Press .

Windscreen wiper/washer

Windscreen wiper



- 2** = fast
- 1** = slow
-  = timed interval wiping
- O** = off

For a single wipe when the windscreen wiper is off, press the lever down.

Do not use if the windscreen is frozen.

Switch off in car washes.

Adjustable wiper interval




Wiper lever in position .


Turn the adjuster wheel to adjust the desired wipe interval:

- | | |
|----------------|---------------------------------|
| Short interval | = turn adjuster wheel upwards |
| Long interval | = turn adjuster wheel downwards |

Automatic wiping with rain sensor



 = automatic wiping with rain sensor

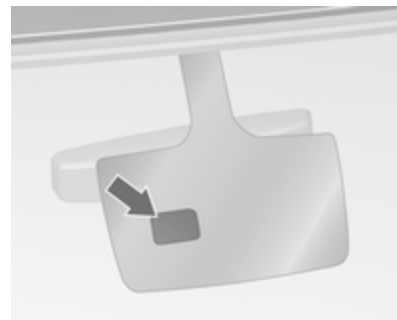
The rain sensor detects the amount of water on the windscreen and automatically regulates the frequency of the windscreen wiper. Activated rain sensor is indicated by  in the Driver Information Center.

Adjustable sensitivity of the rain sensor



Turn the adjuster wheel to adjust the sensitivity:

Low sensitivity = turn adjuster wheel downwards
High sensitivity = turn adjuster wheel upwards

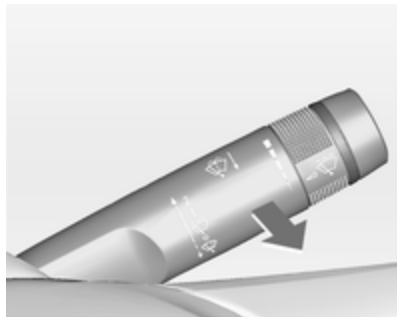


Keep the sensor free from dust, dirt and ice.

Caution

Set the lever in position  before clearing the windshield from ice.

Windscreen and headlight washer




Pull lever. Washer fluid is sprayed onto the windscreen and the wiper wipes a few times.
If the headlights are on, washer fluid is also sprayed onto the headlights.

Outside temperature



Temperature is displayed in the Info Display.

A drop in temperature is indicated immediately and a rise in temperature after a time delay.

If outside temperature is between 26 - 38 °F, a warning message  **Ice Possible Drive with Care** appears in the Driver Information Center as a warning for icy road conditions. The message can be cleared by pressing the **SET/CLR** button, or it disappears self-kindled after 10 seconds.

Warning

The road surface may already be icy even though the display indicates a few degrees above 32 °F

Compass

Compass information is displayed on the Driver Information Center (DIC) by a heading arrow and the global orientation (**North, East, South, West**).



The compass receives its heading and other information from Global Positioning System (GPS) antenna, Electronic Stability Control system and vehicle speed information. Avoid covering the GPS antenna for long periods of time with objects that may interfere with the antenna's ability to receive a satellite signal.

Compass messages

The compass system is designed to operate for a certain number of kilometres or degrees of turn before needing a signal from the GPS satellites.

When the compass display shows **CAL**, the compass needs to be calibrated. Drive the vehicle for a short distance in an open area where it can receive a GPS signal.

The compass system will automatically determine when GPS signal is restored and provide a heading again.

--- is indicated when the compass needs service. Seek the assistance of a workshop.

Compass settings ⇨ 85

Clock

Date and time are shown in the Info-Display.

Grafic-Info-Display

Set date and time

Press the **CONFIG** button. The menu **Settings** is displayed.

Select **Time & Date**.

Selectable setting options:

- **Set time:** Changes the time shown on the display.
- **Set date:** Changes the date shown on the display.
- **Set time format:** Changes indication of hours between **12 hours** and **24 hours**.
- **Set date format:** Changes indication of date between **MM/DD/YYYY** and **DD.MM.YYYY**.
- **RDS clock synchronization:** The RDS signal of most VHF transmitters automatically sets the

time. RDS time synchronisation can take a few minutes. Some transmitters do not send a correct time signal. In such cases, it is recommended to switch off automatic time synchronisation.

Colour-Info-Display with Touch Screen functionality

Set date and time

Press the **CONFIG** button.

To enter **Time** menu, press the **CONFIG** button repeatedly, or press one of the screen buttons at the top of the screen. Follow the menu instructions.

Vehicle personalisation ⇨ 99.

Power outlets

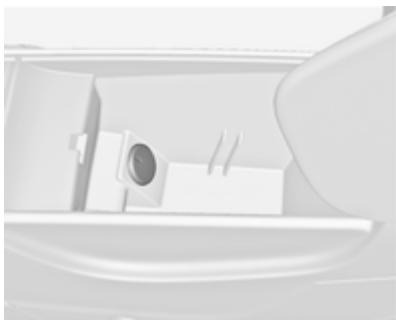
12 V power outlets are located in the front centre console, in the storage of the armrest and in the load compartment on the left side.



To open the front centre console push on the front end of the cover.



Pull middle button to fold up the armrest.



Do not exceed the maximum power consumption of 120 Watts.

With ignition off the power outlets are deactivated. Additionally the power outlets are deactivated in the event of low battery voltage.

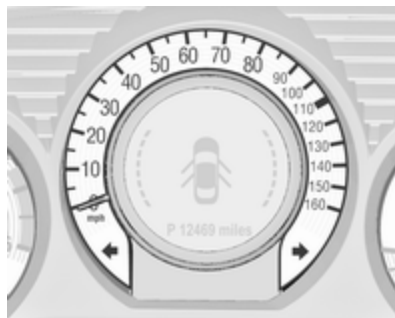
Electrical accessories that are connected must comply with the electromagnetic compatibility requirements.

Do not connect any current-delivering accessories, e.g. electrical charging devices or batteries.

Do not damage the outlets by using unsuitable plugs.

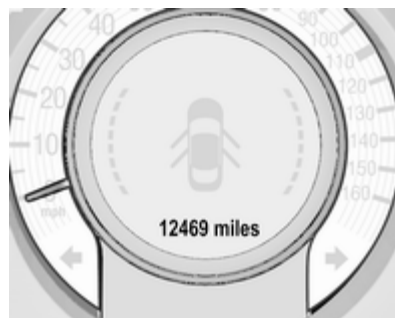
Warning lights, gauges and indicators

Speedometer



Indicates vehicle speed.

Odometer



The bottom line displays the total kilometers driven.

Tachometer




Displays the engine speed.
Drive in a low engine speed range for each gear as much as possible.

Caution

If the needle is in the red warning zone, the maximum permitted engine speed is exceeded. Engine at risk.



Fuel gauge



Displays the fuel level in the tank. Control indicator  illuminates if the level in the tank is low. Refuel immediately.

Never run the tank dry.

Because of the fuel remaining in the tank, the top-up quantity may be less than the specified tank capacity.

The arrow  near the symbol  indicates that the fuel filler flap is on the right side of the vehicle.

Boost gauge



The turbo gauge indicates the air volume for combustion, which is equivalent to the engine load.

Under certain barometric conditions, the needle may enter the first part of the red zone.

If the needle repeatedly enters the red zone and the engine loses power at the same time, seek the assistance of a workshop.

Engine coolant temperature gauge



Displays the coolant temperature.

Red area	= Temperature too high
Central area	= Normal operating temperature
Lower area	= Engine operating temperature not yet reached

Caution

If engine coolant temperature is too high, stop vehicle, switch off engine. Danger to engine. Check coolant level.

Service display

The engine oil life system lets you know when it is time for service. Based on driving conditions, the interval at which an engine oil and filter change will be indicated can vary considerably.



The remaining oil life duration is displayed in the **Vehicle Information Menu** in the Driver Information Menu.

The menu and function can be selected via the buttons on the turn signal lever.

To display the remaining engine oil duration:



Press the **MENU** button to select the **Vehicle Information Menu**.

Turn the adjuster wheel to select **Remaining Oil Life**.

For the system to work properly, it must be reset every time the engine oil is changed. Seek the assistance of a workshop.

Press the **SET/CLR** button to reset engine oil life system. Thereby the ignition has to be in **Ignition on** mode (green LED in **Start/Stop** button is on) but engine not running.

When the system has calculated that engine oil life has been diminished, **Change Engine Oil Soon** appears in the Driver Information Center.

Driver Information Center ⇨ 85.

Service information ⇨ 197.

Control indicators

The control indicators described are not present in all vehicles. The description includes all equipment levels. When the ignition mode is switched on by pressing **Start/Stop** button once, most control indicators will illuminate briefly as a functionality test.

The control indicator colours mean:

Red = Danger, Important
reminder

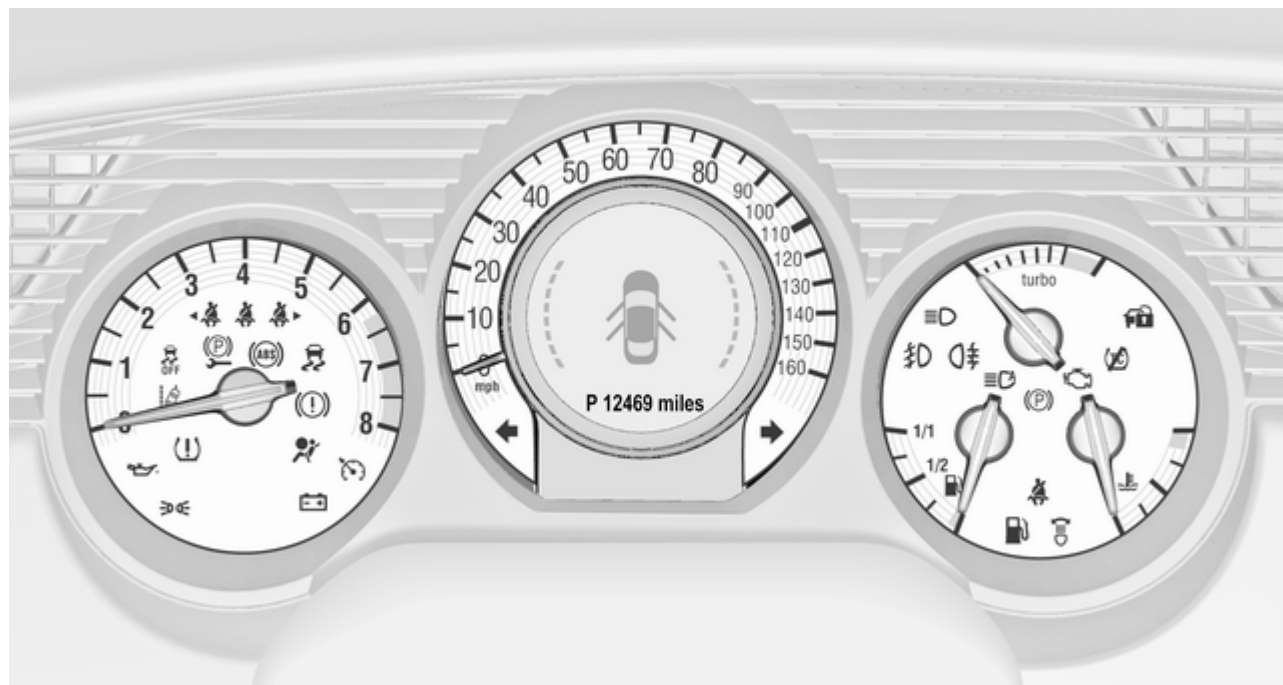
Yellow = Warning, Information,
Fault

Green = Confirmation of activation

Blue = Confirmation of activation

On some of the following control indicators appear an additional message in the Driver Information Center, when they are illuminating or flashing.

Control indicators in the instrument cluster



Control indicators in the roof console



Control indicators for rear seat belt reminder in the Driver Information Center



Turn signal

↔ flashes green.

Flashes

The control indicator flashes if a turn signal or the hazard warning flashers are activated.

Rapid flashing: failure of a turn signal light or associated fuse, failure of turn signal light on trailer.

Bulb replacement ↗ 162, Fuses ↗ 168.

Turn signals ↗ 112.

Seat belt reminder

Seat belt reminder on front seats

⚠ for driver's seat is located in main instrument and illuminates or flashes red.

⚠ for front passenger seat is located in the roof console and illuminates or flashes red.


When the engine is running, the seat belt reminder will initiate if the driver and/or the passenger have not buckled up. The associated display will flash for the first 100 seconds and then turn solid. It will light until the seat belt is fastened.

If not buckled up before driving off a reminder will be initiated when the vehicle speed exceeds 14 mph or the driving distance exceeds 820 ft. The associated display will flash and

a chime signal will sound for 100 seconds, or until the seat belt is fastened.

The associated symbol will always light when a seat belt is not used.

Seat belt reminder on rear seats


 flashes or illuminates in the Driver Information Center or in the tachometer.

The driver should ensure that all rear seat passengers wear the seat belts. The status of seat belt usage is then reflected.

Depending on the vehicle version, status is indicated as control indicators in the tachometer or as symbol in the Driver Information Center.


Control Indicators in the tachometer

Information mode when vehicle not driving

 lights red: passenger unbuckled or seat not occupied

 off: passenger buckled

Warning mode when vehicle driving

 flashes red: passenger unbuckled

 off: passenger buckled

Symbols in the Driver Information Center

Information mode when vehicle not driving

 lights grey: passenger unbuckled

 lights green: passenger buckled

Warning mode when vehicle driving

 flashes red: passenger unbuckled

 lights grey: belt not used

If any rear seat belt unbuckles during forward vehicle motion three chime signal will sound and a warning indication will flash until the belt is fastened.


Fastening the seat belt ⇨ 45.

Airbag and belt tensioners

 illuminates red.

When the ignition is switched on, the control indicator illuminates for approx. 4 seconds. If it does not illuminate, does not go out after 4 seconds or illuminates whilst

driving, there is a fault in the airbag system. Seek the assistance of a workshop. The airbags and belt pretensioners may fail to trigger in the event of an accident.

Deployment of the belt pretensioners or airbags is indicated by continuous illumination of .

Warning

Have the cause of the fault remedied immediately by a workshop.

Belt pretensioners, airbag system
⇨ 43, ⇨ 47.

Seat occupancy recognition

Control indicators in the roof console.

 on illuminates yellow.

When the control indicator illuminates the front passenger airbag is operational.

 off illuminates yellow.

When the control indicator illuminates the front passenger airbag is turned off ⇨ 51.

Charging system


 illuminates red.

Illuminates when the ignition is switched on and goes out shortly after the engine starts.

Illuminates when the engine is running

Stop, switch off engine. Battery is not charging. Engine cooling may be interrupted. The brake servo unit may cease to be effective. Seek the assistance of a workshop.

Malfunction indicator light

 illuminates or flashes yellow.

Illuminates when the ignition is switched on and goes out shortly after the engine starts.

Illuminates when the engine is running

Fault in the fuel, ignition or emission control system. The permitted emission limits may be exceeded. Seek the assistance of a workshop immediately.

Flashes when the engine is running

Fault that could lead to catalytic converter damage. Ease up on the accelerator until the flashing stops. Seek the immediate assistance of a workshop.

Brake system

 illuminates red.

Illuminates when the brake fluid level is too low ⇨ 161.

Warning

Stop. Do not continue your journey. Consult a workshop.


Electrical parking brake

 illuminates or flashes red.

Flashes twice and then illuminates

Electrical parking brake is applied ⇨ 138.

Flashes continuously

Electrical parking brake is not fully applied or released. Depress the foot brake pedal and attempt to reset the system by first releasing and then applying the electrical parking brake. If  remains flashing, do not drive and seek the assistance of a workshop.

Electrical parking brake fault

 illuminates or flashes yellow.

Illuminates

Electrical parking brake is operating with degraded performance ⇨ 138.

Flashes

Electrical parking brake is in service mode. Stop vehicle, apply and release the electrical parking brake to reset.

Warning

Have the cause of the fault remedied immediately by a workshop.

Antilock brake system (ABS)

 illuminates yellow.

Illuminates for a few seconds after the ignition is switched on. The system is ready for operation when the control indicator goes out.

If the control indicator does not go out after a few seconds, or if it illuminates while driving, there is a fault in the ABS. The brake system remains operational but without ABS regulation.

Antilock brake system ⇨ 137.

Lane departure warning

 illuminates green or flashes yellow.

Illuminates green

System is switched on and ready to operate.

Flashes yellow

System recognizes an unintended lane change.

Not illuminated, if no marking is detected or speed less than 37 mph.

Electronic Stability Program

 illuminates or flashes yellow.

Illuminates

A fault in the system is present. Continued driving is possible. Driving stability, however, may deteriorate depending on road surface conditions.

Have the cause of the fault remedied by a workshop.

Flashes

The system is actively engaged. Engine output may be reduced and the vehicle may be braked automatically to a small degree.

Electronic Stability Program off

 illuminates yellow.

Illuminates when the system is deactivated.

Deactivation ⇨ 140.


Traction Control system off

 illuminates yellow.

Illuminates when the system is deactivated.

Deactivation ⇨ 139.

Tyre pressure monitoring system

 illuminates or flashes yellow.

Illuminates

Tyre pressure below recommended placard value, check and adjust tyre pressure. Tyre pressure is also indicated in the Driver Information Center (DIC). The recommended tyre pressure is even stated on a label on the front left door frame.

Flashes

Fault in system or wheel without pressure sensor mounted (e.g. spare wheel). After 60 - 90 seconds the control indicator remains illuminated. Consult a workshop.

Engine oil pressure

 illuminates red.

Illuminates when the ignition is switched on and goes out shortly after the engine starts.

Illuminates when the engine is running

Caution

Engine lubrication may be interrupted. This may result in damage to the engine and/or locking of the drive wheels.

1. Set selector lever to **N**.
2. Move out of the flow of traffic as quickly as possible without impeding other vehicles.
3. Switch off ignition.

Warning

When the engine is off, considerably more force is needed to brake and steer.

Check oil level before seeking assistance of a workshop ⇨ 159.

Low fuel

 illuminates yellow.

Illuminates when level in fuel tank is too low.

Catalytic converter ⇨ 132.

Immobiliser

 flashes yellow.

Fault in the electronic immobiliser system. The engine cannot be started.

Exterior light

 illuminates green.

Illuminated when the exterior lights are on ⇨ 109.

 illuminates green.

Illuminated when the smart beam is switched on ⇨ 110.

High beam

 illuminates blue.

Illuminated when high beam is on and during headlight flash ⇨ 110.

Adaptive forward lighting

☞ illuminates or flashes yellow.

Illuminates

Fault in system.

Seek the assistance of a workshop.

Flashes

Control indicator ☞ flashes 3 times after the ignition is switched on as a reminder that the Tourist mode has been activated [Linktarget not found: y.target.id = OM_be7ec0fadcce5e3fc0a801ea00df0129_1_en_GB-ID_0220].

Automatic light control ☞ 110.

Fog light

☞D illuminates green.

Illuminated when the front fog lights are on ☞ 113.

Cruise control

☞ illuminates white or green.

Illuminates white

The system is on, but not activated.

Illuminates green

The system is activated.

Cruise control ☞ 142.

Door open

☞ illuminates in the display of the Driver Information Center.

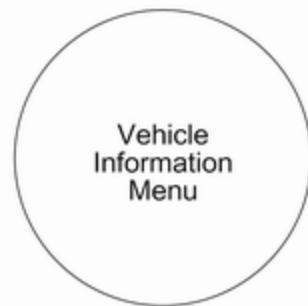
Illuminates as Popup warning when a door or the tailgate is open in driving mode.

With vehicle standing still, an open door will be indicated as a small symbol.

Information displays

Driver Information Center

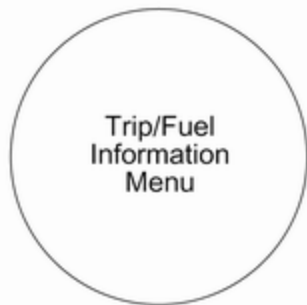
The Driver Information Center (DIC) is located in the instrument cluster in the middle of the speedometer. It is available as Monochrome- or Colour-Display. The following descriptions are valid for both versions.



The following main menus, depending on the vehicle configuration, can be selected:

- Trip/Fuel Information Menu
- Vehicle Information Menu

Some of the displayed functions differ between vehicle driving and standstill and some functions are only active when the vehicle is driving.



Vehicle personalisation ⇨ 99.
Memorised settings ⇨ 18.

Selecting menus and functions

The menus and functions can be selected via the buttons on the turn signal lever.



Press the **MENU** button to switch between the menus or to return from a submenu to the next higher menu level.



Turn the adjuster wheel to change a page or to set a numeric value.



Press the **SET/CLR** button to select a function or to confirm a message.

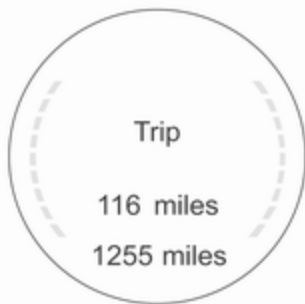
Trip/Fuel Information Menu

Switch on ignition.

If not displayed, press the **MENU** button to select the **Trip/Fuel Information Menu**.

Turn the adjuster wheel to select one of the Trip Computer submenus. Press the **SET/CLR** button to confirm if required.

Trip Computer submenus can be:



- Speed
- Trip
- Range
- Avg. Consumption / Inst. consumption
- Avg. Speed
- Distance / estimated time of arrival
- Navigation
- Traffic sign ⇨ 94
- "Blank page" without information, only kilometrage/mileage shown

Trip Computer ⇨ 97.

Advanced parking aid system
⇨ 143.

Indication can be different between Monochrome- and Colour-Display.

Vehicle Information Menu

Switching on the ignition **Trip/Fuel Information Menu** will always appear firstly.

Press the **MENU** button to select the **Vehicle Information Menu**.

Turn the adjuster wheel to select one of the subpages. Press the **SET/CLR** button to confirm.



Follow the instructions given in the pages.

Pages can be:

- **Unit:** Displayed units can be changed.
- **Speed Warning:** If exceeding the preset speed a warning chime will be activated.
- **Battery Voltage:** Display of battery voltage.
- **Remaining Oil Life:** Display of remaining oil life duration ⇨ 77.
- **Tire Pressure:** Displays tire pressure for all wheels ⇨ 177.
- **Compass:** Compass settings ⇨ 72.

Indication can be different between Monochrome- and Colour-Display.

Graphic-Info-Display, Colour-Info-Display

Depending on the vehicle configuration the vehicle has a Graphic-Info-Display or Colour-Info-Display with Touch-Screen functionality. The Display is located in the instrument panel above the faceplate of the Infotainment system.

To enter the Setup-Menu for both displays press the button **CONFIG**.



System Settings, Personalisation
 ⇨ 99.

Graphic-Info-Display

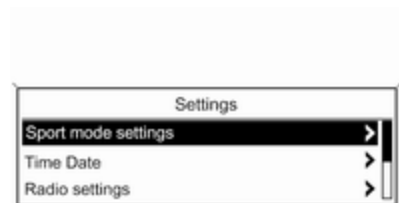


Graphic-Info-Display indicates:

- time ⇨ 73
- outside temperature ⇨ 72
- date ⇨ 73
- Infotainment system, see description for Infotainment system
- settings for vehicle personalisation ⇨ 99

Selecting menus and settings with the multifunction knob Menu/Select

Menus and settings are accessed via the display.



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Selections are made via:

- menus
- function buttons and multifunction knob of the Infotainment system

Multifunction knob Menu/Select



Select a function via the Infotainment system buttons. The menu of the selected function is displayed.

The multifunction knob is used to select an item and to confirm.

Turn the multifunction knob

- To mark a menu option
- To set a numeric value or to display a menu option

Press the multifunction knob

- To select or activate the marked option
- To confirm a set value

- To switch a system function on/off
- To bring forward a context sensitive menu.

BACK button

Press button to:

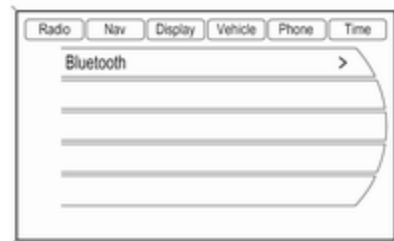
- exit a menu without changing settings
- return from a submenu to a higher menu level
- delete a last character in a character sequence

Press and hold the button for a few seconds to delete the entire entry.

Vehicle personalisation ⇨ 99.

Memorised settings in the remote control ⇨ 18.

Colour-Info-Display with Touch-Screen-functionality



The Colour-Information-Display is a touch screen display and indicates in colour:

- time ⇨ 73
- outside temperature ⇨ 72
- date ⇨ 73
- Infotainment system, see description for Infotainment system
- navigation, see description for Infotainment system
- system settings

- vehicle messages ⇨ 93
- settings for vehicle personalisation ⇨ 99

The type of information and how it is displayed depend on the equipment of the vehicle and the settings made.

Selecting menus and settings with the touch buttons on the display

To scroll through the available setup options, press the **CONFIG** button repeatedly, or touch the according buttons on the display.

Selecting menus and settings with the multifunction knob Menu/Select, see description for **Grafic-Info-Display** above.

Head-up display

The Head-up display (HUD) projects the following information concerning the operation of the vehicle onto the windshield:

- speedometer reading
- tachometer reading

- automatic transmission selector lever position
- tap shift gear
- outside air temperature
- compass heading
- turn-by-turn navigation information if the vehicle has a navigation radio.

The images are projected through the HUD lens located on the driver's side of the instrument panel.

Note

Do not try to use the HUD image as a parking aid, you may misjudge the distance and damage your vehicle.

The HUD information is displayed in the language which is set in the personal settings of the Info-Display. Vehicle personalisation ⇨ 99. Not all languages are included in the Head-up display.

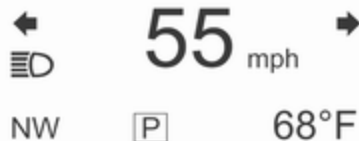
The speedometer reading and other numerical values can be displayed in either English or metric units. The language selection can be changed by the Infotainment System. The units of

measurement can be changed in the trip computer in the Driver Information Center (DIC) ⇨ 85.

⚠ Warning

If the HUD image is too bright or too high in your field of view, it may obstruct your view when it is dark outside. Be sure to keep the HUD image dim and placed low in your field of view.

Display on the vehicle windshield



The HUD information appears as an image focused out toward the front of the vehicle. When the ignition is switched on, the HUD will display an introductory message for a short time, until the HUD is ready. The following indicator lights come on the instrument panel when activated and also appear on the HUD:

- Turn signal indicators
- High-Beam indicator

The HUD temporarily displays some vehicle warnings and messages when these messages are on the DIC trip computer.

- Check tyre pressure
- Fuel level low
- Traction Control System
- Electronic Stability Control
- Front parking assist

The HUD control is located to the left of the steering wheel. To adjust the HUD image so that items are properly displayed, do the following steps:

1. Adjust the driver's seat to a comfortable position.
2. Start the engine.
3. Adjust the HUD controls, use the following settings:



OFF: To turn HUD off, turn the HUD dimming knob fully counterclockwise until the HUD display turns off.

Brightness: Turn the dimming knob clockwise or counterclockwise to brighten or dim the display.



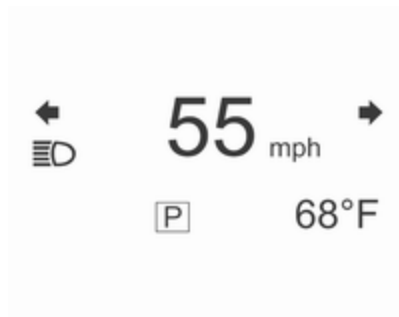
^ Up V Down:

Press the up or down arrows to center the HUD image in your view. The HUD image can only be adjusted up and down, not side to side.

PAGE: Press to select the display formats. Release the page button when the format number with the desired display is shown on the HUD. If vehicle messages are displayed, pressing **PAGE** may clear the message.

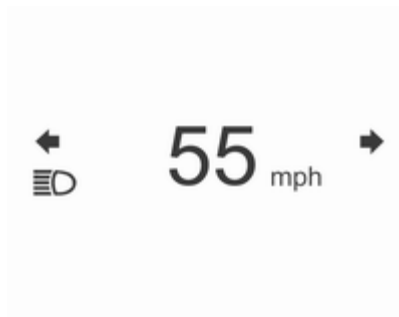
The three formats are as follows:

Format One



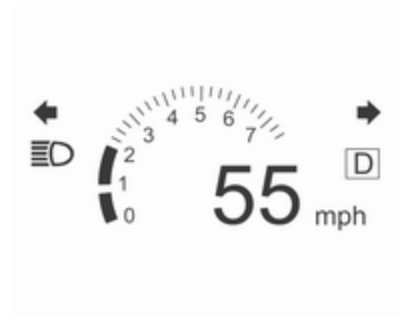
This display indicates the speedometer reading (in imperial or metric units), turn signal indication, high beam indication, transmission positions and outside air temperature and compass heading.

Format Two



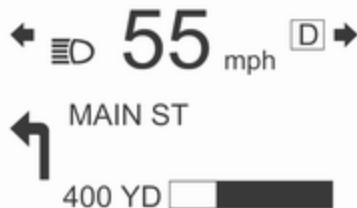
This display includes the information in Format One without the transmission information and outside air temperature and compass heading.

Format Three



This display includes all the information in Format One along with a circular tachometer, but without outside air temperature and compass heading.

All formats will show the turn-by-turn navigation information and provide details about the next driving maneuver to be made. The HUD will display a distance bar that will empty the closer you get to your maneuver. All navigation information is provided to the HUD by the navigation radio or OnStar® service, for vehicles that have these features.

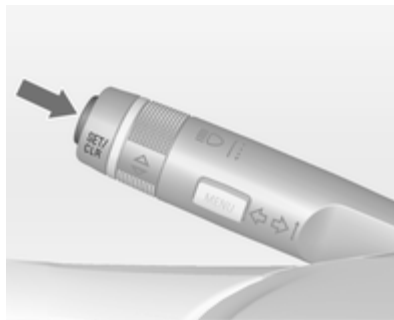


The HUD image displayed on the windshield will automatically dim and brighten to compensate for outside lighting. However, the HUD brightness can still be adjusted as needed.

The HUD image can temporarily light up depending on the angle and position of the sunlight on the HUD display. This is normal and will change when the angle of the sunlight on the HUD display changes. Polarized sunglasses could make the HUD image harder to see.

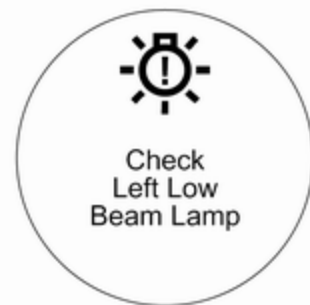
Vehicle messages

Messages are indicated in the Driver Information Center (DIC), in some cases together with a warning and an audible signal.



Press the **SET/CLR** button to confirm a message.

Vehicle messages on the Driver Information Center



The vehicle messages are displayed as text. Follow the instructions given in the messages.

The system displays messages regarding the following topics:

- Fluid levels
- Anti-theft alarm system
- Brakes
- Drive systems
- Ride control systems
- Cruise control

- Object detection systems
- Lighting, bulb replacement
- Wiper/washer system
- Doors, windows, engine hood open
- Remote control
- Seat belts
- Airbag systems
- Engine and transmission
- Tyre pressure
- Service vehicle soon
- Steering column lock
- Parking assist
- Apply footbrake
- Variable effort steering
- Remote control battery change

Warning chimes

When starting the engine or whilst driving

- If seat belt is not fastened
- If a door or the tailgate is not fully closed when starting off

- If a programmed speed is exceeded
- If a warning message appears in the Driver Information Center
- If the parking assist detects an object
- When remote control is missing in the vehicle

When the vehicle is parked and/or the driver's door is opened

- With exterior lights on
- When remote control is forgotten in the vehicle

Traffic sign assistant

Functionality

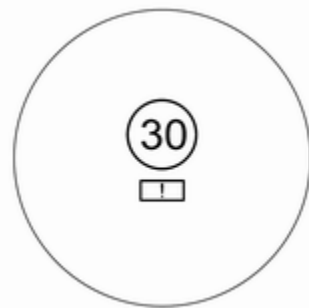
The traffic sign assistant system detects designated traffic signs via a front camera and displays them in the Driver Information Center.

Traffic signs, which will be detected, are

- speed limit
- no passing

- end of speed limit
- end of no passing

Speed limit signs are displayed in the Driver Information Center until the next speed limit sign or end of speed limit is detected.



No passing signs have priority above speed limits.

Combinations of both signs in the display are possible.



An exclamation mark in a frame indicates, that there is an additional sign detected which can not be recognized by the system.

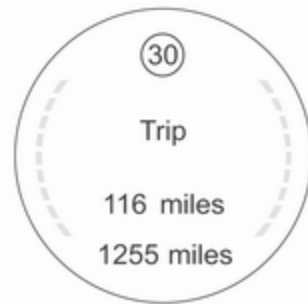
The system is active when driving above 9 mph and is active up to a speed of 124 mph depending on the lighting conditions. At night the system is active up to a speed of 99 mph. At a speed below 9 mph --- is indicated if traffic sign page is selected.

As soon as the speed becomes lower than 22 mph the display will be reset and the content of the traffic sign page will be cleared. The next recognized speed indication will be displayed.

Display indication



Traffic signs are displayed on the page **Traffic sign detection** in the **Trip/Fuel Information Menu**, chosen via the adjuster wheel on the turn signal lever ➞ 85.



In addition, recognized traffic signs are displayed in the top of each page of the Colour-Info-Display.

When another function on the Driver Information Center menu was selected and then **Traffic sign detection** page is chosen again, the last recognized traffic sign will be displayed.

If the system is deactivated, the content of the traffic sign page is cleared, indicated by the following symbol:



Pop-up function



To activate the pop-up function choose the page page **Traffic sign detection** in the **Trip/Fuel Information Menu**. The pop-up function can be selected by pushing the **SET/CLR** button on the turn signal lever. Activation will be indicated by the icon in the display.



Pop-up indication is displayed for approx. 8 seconds in the Driver Information Center.

Speed limits and no passing signs are displayed as pop-ups on each page of the menu.

Fault

The traffic sign assistant system may not operate correctly when:

- the area of the windscreen, where the front camera is located, is not clean
- traffic signs are completely or partially covered or difficult to discern
- there are adverse environmental conditions like heavy rain, snow, direct sunlight or shadows. In this case **No Traffic Sign Detection due to Weather** is indicated on the display
- traffic signs are incorrectly mounted or damaged
- traffic signs do not comply with the Wiener Übereinkommen über Straßenverkehrszeichen (Vienna Convention on traffic signs)

Caution

The system is intended to help the driver within a defined speed range to discern certain traffic signs. Do not ignore traffic signs which are not displayed by the system.

The system does not discern any other than the conventional traffic signs that might give or end a speed limit.

Do not let this special feature tempt you into taking risks when driving.

Always adapt speed to the road conditions.

The driver assistance systems do not relieve the driver from full responsibility for vehicle operation.

Battery voltage

In case of low battery voltage, the charging of the battery is monitored and continuously adapted to optimise battery state of charge, fuel economy,

head light and wiper performance. The current battery voltage is displayed on the Driver Information Center, **Vehicle Information Menu**, **Battery Voltage**, reflecting these charging cycles in different voltages.

If the battery voltage is running low, a warning message will appear in the Driver Information Center.

1. Switch off immediately electrical consumers which are not required for a safe ride, such as seat heating, heated rear window or other main consumers.
2. Charge the battery by driving continuously for a while or by using a charging device.

The warning message will disappear after the engine has been started two times running without voltage drop.

If the battery cannot be recharged, have the cause of the fault remedied by a workshop.

Trip computer

The menus and functions can be selected via the buttons on the turn signal lever.



Press the **MENU** button to select the **Trip/Fuel Information Menu**.



Turn the adjuster wheel to select a submenu.

Follow the instructions in the submenus:

Speed

Display of the current digital speed in the chosen unit.

Trip odometer



Displays the recorded distance since the last reset.

To reset, press the **SET/CLR** button for a few seconds.




Range

Range is calculated from current fuel tank content and current consumption. The display shows average values.

After refuelling, the range is updated automatically after a brief delay.

When the fuel level in the tank is low, a message appears in the Driver Information Center and in the Info-Display.

Additionally the control indicator  in the fuel gauge illuminates.

Average consumption / Instantaneous consumption

Display of average consumption and instantaneous consumption. The measurement of average consumption can be reset at any time.

To reset, press the **SET/CLR** button for a few seconds.

Average speed

Display of average speed. The measurement can be reset at any time.

To reset, press the **SET/CLR** button for a few seconds.

Distance and estimate time of arrival

Display of distance and accordant arrival time. The measurement can be reset at any time.

To use the Distance function and get a calculated Estimate time of arrival, press **SET/CLR** button shortly and turn the adjuster wheel to set the distance to the destination.

Press **SET/CLR** button to show estimate time of arrival.

Estimate time of arrival is updated during the journey based on the average speed since Distance was set.

When distance reaches zero, the function acts as trip meter. The trip meter starts from the distance, that was set previously.

To reset all values, press the **SET/CLR** button for a few seconds.

Navigation

Display of additional route guidance and hints to the navigation system.

Traffic sign assistant

Indicates detected traffic signs, ⇨ 94.

"Blank page"

indicates no further content except kilometrage/mileage.

Vehicle personalisation

The vehicle's behaviour can be personalised via changing the settings in the Info-Display.

Some of the personal settings for different drivers can be memorised individually for each remote control. Memorised settings ⇨ 18

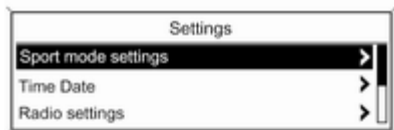
Depending on vehicle equipment and country-specific regulations some of the functions described below might not be available.

Vehicle information is only displayed in Ignition on mode (green LED in **Start/Stop** button illuminated).

Personal settings in the Graphic-Info-Display



Press the **CONFIG** button. The menu **Settings** is displayed.



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The following settings can be selected by turning and pushing the multifunction knob:

- **Sport mode settings**
- **Time Date**
- **Radio settings**
- **Phone settings**
- **Vehicle settings**
- **Restore factory settings**

In the corresponding submenus the following settings can be changed:

Sport mode settings

The functions which will be activated in Sport mode can be selected ⇨ 140.

- **Sport suspension:** Damping becomes harder.
- **Sport steering:** Steering support reduced.
- **Sport All-Wheel-Drive:** Engine torque is distributed to a greater extent to the rear axle.

Time Date

See Clock ⇨ 73.

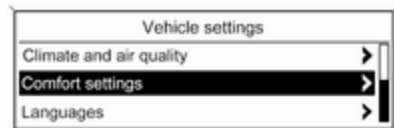
Radio settings

See description for Infotainment system.

Phone settings

See description for Infotainment system.

Vehicle settings



20326

■ Climate and air quality

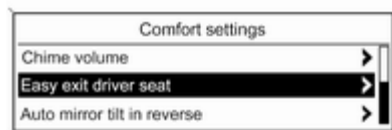
Auto fan speed: Modifies the fan regulation.

Climate control mode: Activate or deactivate cooling or select previous settings.

Temperature zone at start: Change between single zone or dual zone temperature setting.

Auto demist: Supports windscreen dehumidification by forcing outside air and auto air conditioning mode.

Auto rear demist: Automatic activation of rear heated window.



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■ Comfort settings

Chime volume: Change the volume of warning chimes.

Conf. closing mirror fold: Activate or deactivate the automatic mirror folding function whilst comfort closing.

Auto mirror tilt in reverse: Activate or deactivate the parking assist function of the exterior mirrors.

Personalization by driver: Activate or deactivate the personalisation function.

■ Languages

Selection of the desired language.

■ Exterior ambient lighting

Exterior lighting by unlocking:

Activate or deactivate the welcome lighting.

Duration upon exit of vehicle:

Activate or deactivate and change the duration of exit lighting.

■ Remote locking, unlocking, starting

Remote unlock feedback: Activate or deactivate the hazard warning flasher feedback whilst unlocking.

Remote door unlock: Change the configuration to unlock only the driver's door or the whole vehicle whilst unlocking.

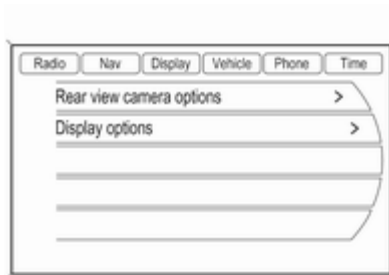
■ Restore factory settings

Restore factory settings: Reset all settings to the default settings.

Personal settings in the Colour-Info-Display with Touch-Screen-functionality



The setup menu is used for changing the screens for the audio, navigation display, phone, vehicle configuration, and time features. Press the **CONFIG** button to display the setup menu.



The following settings can be selected by scrolling through the setup options either by pressing one of the screen buttons at the top, or pressing the CONFIG button repeatedly, or turning and pushing the multifunction knob:

- **Sport**
- **Time**
- **Radio**
- **Phone**
- **Nav**
- **Vehicle**

- **Display**
- **Return to Factory Settings**

In the corresponding submenus the following settings can be changed:

Sport

The functions which will be activated in Sport mode can be selected
 ⇨ 140.

- **Sport suspension:** Damping becomes harder.
- **Sport steering:** Steering support reduced.
- **Sportive All-Wheel-Drive:** Engine torque is distributed to a greater extent to the rear axle.
- **Restore factory settings:** Reset all functions to factory settings.

Time

See Clock ⇨ 73.

Radio

See description for Infotainment system.

Phone

See description for Infotainment system.

Nav

See description for Infotainment system.

Vehicle

■ Climate and air quality

Auto fan speed: Modifies the fan regulation.

Climate control mode: Activate or deactivate cooling or select previous settings.

Auto demist: Supports windscreen dehumidification by forcing outside air and auto air conditioning mode.

Auto rear demist: Automatic activation of rear heated window.

■ Comfort & Convenience

Chime volume: Change the volume of warning chimes.

Comfort closing mirror fold: Activate or deactivate the automatic mirror folding function whilst comfort closing.

Auto mirror tilt in reverse: Activate or deactivate the parking assist function of the exterior mirrors.

■ Languages

Selection of the desired language.

■ Exterior ambient lighting

Exterior lighting by unlocking: Activate or deactivate the welcome lighting.

Duration upon exit of vehicle: Activate or deactivate and change the duration of exit lighting.

■ Remote Lock / Unlock / Start

Door unlock: Change the configuration to unlock only the driver's door or the whole vehicle whilst unlocking.

Personalization by remote control: Activate or deactivate the personalisation function.

■ Restore factory settings

Restore factory settings: Reset all settings to the default settings.

Display

Selectable display settings:

- **Day mode:** Optimisation for daylight conditions.
- **Night mode:** Optimisation for darkness.
- **Automatic mode:** The display changes mode depending on outside surrounding light or, on some versions, daylights / nightlights are always on

OnStar® system



OnStar® uses several innovative technologies and liveadvisors to provide a widerange of safety, security, navigation, diagnostics, and calling services.

Automatic Crash Response

In a crash,built in sensors can automatically alert an OnStar® advisor who is immediately connected to the vehicle to see if you need help.

How OnStar® Service Works

On: This blue button connects you to a specially trained OnStar® advisor to verify your account information and to answer questions.

☉: Push this red emergency button to get priority help from specially trained OnStar® emergency advisors.

☎: Push this button for hands-free, voice-activated calling and to give voice commands for turn-by-turn navigation.

Crisis Assist, Stolen Vehicle Assistance, Vehicle Diagnostics, Remote Door Unlock, Roadside Assistance, Turn-by-Turn Navigation and Hands-Free Calling are available on mostvehicles. Not all OnStar® services are available on all vehicles. For more information see the OnStar® Owner's Guide or visit www.onstar.com (U.S.) or www.onstar.ca (Canada), contact OnStar at 1-888-4-ONSTAR (1-888-466-7827) or TTY1-877-248-2080, or press **On** to speak with an OnStar® advisor 24 hours a day, 7 days a week.

For a full description of OnStar® services and system limitations, see the OnStar® Owner's Guide.

OnStar® service is subject to the OnStar terms and conditions included in the OnStar® Subscriber Information.

OnStar® service can not work unless the vehicle is in a place where OnStar® has an agreement with a wireless service provider for service in that area. OnStar® service also cannot work unless the vehicle is in a place where the wireless service provider OnStar® has hired for that area has coverage, network capacity and reception when the service is needed, and technology that is compatible with the OnStar® service. Not all services are available every where, particularly in remote or enclosed areas, or at all times.

The OnStar® system can record and transmit vehicle information. This information is automatically sent to an OnStar® call center when **On** is pressed, ☉ is pressed, or if the airbags or ACR system deploy. This

information usually includes the vehicle's GPS location and, in the event of a crash, additional information regarding the crash that the vehicle was involved in (e.g. the direction from which the vehicle was hit). When the virtual advisor feature of OnStar® hands-free calling is used, the vehicle also sends OnStar® the vehicle's GPS location so they can provide services where it is located.

Location information about the vehicle is only available if the GPS satellite signals are unobstructed and available.

The vehicle must have a working electrical system, including adequate battery power, for the OnStar® equipment to operate. There are other problems OnStar® cannot control that may prevent OnStar® from providing OnStar® service at any particular time or place. Some examples are damage to important parts of the vehicle in a crash, hills, tall buildings, tunnels, weather or wireless phone network congestion.

OnStar® Steering Wheel Controls

This vehicle may have a Talk/Mute button that can be used to interact with OnStar® hands-free calling ➔ 69.

On some vehicles, the mute button can be used to dial numbers into voice mail systems, or to dial phone extensions. See the OnStar® Owner's Guide for more information.

Your Responsibility

Increase the volume of the radio if the OnStar® advisor cannot be heard.

If the light next to the OnStar® buttons is red, the system may not be functioning properly. Press **On** and request a vehicle diagnostic. If the light appears clear (no light is appearing), your OnStar® subscription has expired and all services have been deactivated.

Press **On** to confirm that the OnStar® equipment is active.

Universal remote system

Universal Remote System Programming

If the vehicle has this feature, you will see these buttons with one square Light Emitting Diode (LED) indicator light next to them in the roof console.



This system provides a way to replace up to three remote control transmitters used to activate devices

such as garage door openers, security systems, and home automation devices.

Do not use the Universal Home Remote with any garage door opener that does not have the stop and reverse feature. This includes any garage door opener model manufactured before April 1, 1982.

Read the instructions completely before attempting to program the Universal Home Remote. Because of the steps involved, it may be helpful to have another person available to assist you with programming the Universal Home Remote.

Keep the original hand-held transmitter for use in other vehicles as well as for future Universal Home Remote programming. It is also recommended that upon the sale of the vehicle, the programmed Universal Home Remote buttons should be erased for security purposes. See "Erasing Universal Home Remote Buttons" later in this section.

When programming a garage door, park outside of the garage. Park directly in line with and facing the garage door opener motor-head or gate motor-head. Be sure that people and objects are clear of the garage door or gate that is being programmed.

It is recommended that a new battery be installed in your hand-held transmitter for quicker and more accurate transmission of the radio-frequency signal.

Programming the Universal Home Remote System

For questions or help programming the Universal Home Remote System, call 1-800-355-3515 or go to www.homelink.com.

Programming a garage door opener involves time-sensitive actions, so read the entire procedure before starting. Otherwise, the device will time out and the procedure will have to be repeated.

To program up to three devices:

1. Hold the end of your hand-held transmitter about 1 to 3 inches away from the Universal Home Remote buttons while keeping the indicator light in view. The hand-held transmitter was supplied by the manufacturer of your garage door opener receiver (motor-head unit).
2. At the same time, press and hold both the hand-held transmitter button and one of the three Universal Home Remote buttons to be used to operate the garage door. Do not release the Universal Home Remote button or the hand-held transmitter button until the indicator light changes from a slow to a rapidly flashing light. You now may release both buttons. Some entry gates and garage door openers may require substitution of Step 2 with the procedure noted in "Gate Operator and Canadian Programming" later in this section.

3. Press and hold for five seconds the newly-trained Universal Home Remote button (selected button from Step 2) while observing the indicator light and garage door activation.

If the indicator light stays on continuously or the garage door starts to move when the Universal Home Remote button is pressed and released, then the programming is complete. There is no need to continue programming Steps 4 through 6.

If the Universal Home Remote indicator light blinks rapidly for two seconds, then turns to a constant light and the garage door does not move, continue with the programming Steps 4 through 6. It may be helpful to have another person to assist with the remaining Steps 4 through 6.

4. After Steps 1 through 3 have been completed, locate the "Learn" or "Smart" button inside the garage on the garage door opener receiver (motor-head unit). The name and colour of the button may vary by manufacturer.
5. Firmly press and release the "Learn" or "Smart" button. After you press this button, you will have 30 seconds to complete Step 6.
6. Immediately return to the vehicle. Firmly press and hold for two seconds the Universal Home Remote button, selected in Step 2 to control the garage door, and then release it. If the garage door does not move or the lamp on the garage door opener receiver (motor-head unit) does not flash, press and hold the same button a second time for two seconds, and then release it. Again, if the door does not move or the garage door lamp does not flash, press and hold the same button a third time for two seconds, and then release.

The Universal Home Remote should now activate the garage door. To program the remaining two Universal Home Remote buttons, begin with Step 1 of "Programming the Universal Home Remote System".

Gate Operator and Canadian Programming

If you have questions or need help programming the Universal Home Remote System, call 1-800-355-3515 or go to www.homelink.com.

Canadian radio-frequency laws require transmitter signals to time out or quit after several seconds of transmission. This may not be long enough for Universal Home Remote to pick up the signal during programming. Similarly, some U.S. gate operators are manufactured to time out in the same manner.

If you live in Canada, or you are having difficulty programming a gate operator or garage door opener by using the "Programming Universal Home Remote" procedures,

regardless of where you live, replace Step 2 under “Programming Universal Home Remote” with the following:

2. Continue to press and hold the Universal Home Remote button while you press and release every two seconds (cycle) the hand-held transmitter button until the frequency signal has been successfully accepted by the Universal Home Remote. The Universal Home Remote indicator light will flash slowly at first and then rapidly. Proceed with Step 3 under “Programming Universal Home Remote” to complete.

Universal Remote System Operation

Using Universal Home Remote

Press and hold the appropriate Universal Home Remote button for at least half of a second. The indicator light will come on while the signal is being transmitted.

Erasing Universal Home Remote Buttons

All programmed buttons should be erased when the vehicle is sold or the lease ends. To erase all programmed buttons on the Universal Home Remote device:

1. Press and hold down the two outside buttons until the indicator light begins to flash, after 10 seconds.
2. Release both buttons.

Reprogramming a Single Universal Home Remote Button

To reprogram any of the three Universal Home Remote buttons:

1. Press and hold the desired Universal Home Remote button. Do not release the button.
2. The indicator light will begin to flash after 20 seconds. Without releasing the button, proceed with Step 1 of the section “Programming Universal Home Remote”.

If you have questions or need help programming the Universal Home Remote System, call 1-800-355-3515 or go to www.homelink.com.

Lighting

Exterior lighting	109
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Exterior lighting

Light switch



Turn light switch:

- ⏻ = Activation or deactivation of the automatic light control. Switch turns back to **AUTO**.
- AUTO** = Automatic light control: Headlights are switched on and off automatically depending on external light conditions.
- ⏻ = Parking lights
- ≡ = Headlights

The current status of the automatic light control system is displayed for 3 seconds in the Driver Information Center.

If light switch is turned to **AUTO**, automatic light control is active when switching on ignition.

Country specific version: In some countries the headlights are always on in position **AUTO**.

Control indicator ⏻ ⇨ 84.

Tail lights

Tail lights are on together with headlights and parking lights.

Automatic light control



Automatic light control function

When the automatic light control function is switched on and the engine is running, the system switches between daytime running light and headlight in dependence of the lighting conditions.

Daytime running light

Daytime running light increases visibility of the vehicle during daylight. Tail lights are not on.

Automatic headlight activation

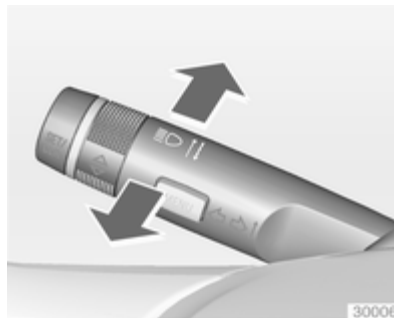
During poor lighting conditions the headlights are switched on.

Tunnel detection

When a tunnel is entered the headlights are switched on without delay.

Adaptive forward lighting ⇨ 110.

High beam



To switch from low to high beam, push lever.

To switch to low beam, push lever again or pull.

Headlight flash

To activate the headlight flash, pull lever.

Adaptive forward lighting

The Adaptive forward lighting is only available with Bi-Xenon Smartbeam. Light range, light distribution and intensity of light are variably triggered depending on the light conditions, weather and road type.

All lighting functions are available in light switch position **AUTO**. The lighting function

- Dynamic automatic headlight levelling

is also available in light switch position **D**.

Town lighting

Activated automatically at a speed range below approx. 31 mph. The light range is reduced to minimise glare and a wider light distribution is obtained.

Country lighting

Activated automatically at a speed range above approx. 31 mph. The cone of light and the brightness is different between left and right side, correspond to a normal low beam.

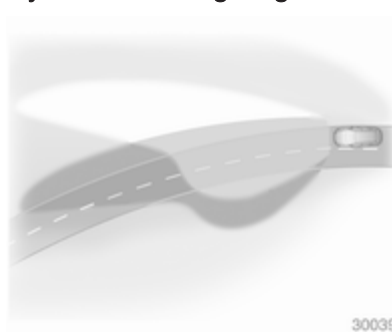
Motorway lighting

Activated automatically at a speed above approx. 62 mph and minimal steering movements. It switches on delayed or directly when vehicle is powerfully accelerated. The light cone is longer and brighter.



Adverse weather lighting

Activated automatically up to a speed of approx. 43 mph, when the rain sensor recognizes condensation or the wiper operates continuously. The range, distribution and intensity of light is regulated variably depending on visibility.

Dynamic curve lighting



The light beam pivots based on steering wheel angle and speed, improving lighting in curves.



Control indicator  illuminates in the case of a failure  85.

High Beam Assist

The high beam assist is activated by pushing the headlight lever twice.

This feature allows high beam as main driving light by night and when vehicle speed is faster than 25 mph and street lights are not detected. It switches to low beam when the

camera in the windscreen detects the lights of oncoming or preceding vehicles. If there are no restrictions detected, the system switches back to high beam.

The green control indicator  illuminates continuously when the assist is activated, the blue one  illuminates when high beam is on.

Control indicator   85.

If a headlight flash is activated when the high beam is on, the high beam assist will be deactivated.

If a headlight flash is activated when the high beam is off, the high beam assist will stay activated.

To deactivate push headlight lever once.

The latest setting of the high beam assist will remain after the ignition is switched on the next time.

Disabling High Beam assist under fog conditions

This feature disables the automatic control of high beam to avoid glaring of oncoming vehicles when fog is detected. It can last for up to 10 minutes until the system actually turns off.

Once it's turned off, switch on High beam assist manually by pushing the headlight lever twice.

Other bad weather conditions like rain can influence the performance of the system.

Dynamic automatic headlight levelling

To prevent oncoming traffic from dazzle, headlight levelling is automatically adjusted.

Fault in Adaptive forward lighting system

When the system detects a failure in the Adaptive forward lighting system, the system moves to a preset position to avoid dazzling of oncoming traffic. If this is not possible the affected

headlight will be automatically switched off. In any case one headlight will stay on. A warning is displayed in the Driver Information Center.

Control indicator   85.

Hazard warning flashers

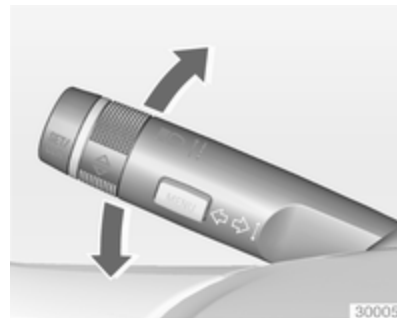


Operated with the  button.

Press again to turn the flashers off.

In the event of an accident with airbag deployment the hazard warning flashers are activated automatically.

Turn and lane-change signals



Lever up = right turn signal

Lever down = left turn signal

If the lever is moved past the resistance point, the turn signal is switched on constantly. When the steering wheel moves back, the turn signal is automatically deactivated.

For three flashes, e.g. when changing lanes, press the lever until resistance is felt and then release.

Having a trailer connected, turn signal flashes for six times when pressing the lever until resistance and then release.

Move the lever to the resistance point and hold for longer indication.

Switch the turn signal off manually by moving the lever to its original position.

Front fog lights



Operated with the ID button.

Light switch in position Auto: switching on front fog lights will switch headlights on automatically.

Parking lights



When ignition is switched off the parklight can be activated by turning the light switch to position P .

When opening the door a chime will remind the driver that park light is activated.

Reversing lights

The reversing light come on when the ignition is on and reverse gear is selected.

Misted light covers

The inside of the light housing may mist up briefly in poor, wet and cold weather conditions, in heavy rain or after washing. The mist disappears quickly by itself; to help switch on the headlights.

Interior lighting


Instrument panel illumination control



Brightness of the following lights can be adjusted when the exterior lights are on:

- Instrument panel illumination
- Steering wheel controls
- Info-Display
- Infotainment system operation elements

- Climate control operation elements
- Illuminated switches

Turn knob  and hold until the desired brightness is obtained.

Night Panel

To improve night driving conditions inside the car, select **Night Panel** mode by pressing the button **Night Panel**.



In this mode, the amount of information displayed is reduced, and only the most important instruments and displays will be illuminated. When the **Night Panel** button is

pressed, all gauges and indicators are set to zero. The speedometer remains lit. Backlighting is dimmed. The lighting in the Driver Information Center and Info display is extinguished.

Note

All indicators, warnings and CHECK messages continue to function as usual except for **Ice warning**.

The following conditions will wake up the respective displays in the **Night Panel** mode:

- If Infotainment system or Driver Information Center (DIC) is set, the display comes on for 10 seconds.
- If a warning message is indicated in the DIC.
- If the engine runs in high revs, the tachometer will be illuminated until the engine speed has fallen again.
- If the quantity of fuel remaining falls below 15 litres, the fuel gauge will be illuminated.
- If the engine temperature rises above normal, the temperature gauge will be illuminated.

- If the selector lever on automatic transmission is moved from D to position M, the selector indication on the automatic transmission display will be illuminated.

To restore the displays and lighting to the normal mode, press the **Night Panel** button.

Interior lights

During entry and exit of the vehicle, the front and rear courtesy lights automatically switch on and then off after a delay.


Note

In the event of an accident with airbag deployment the courtesy lights are turned on automatically.

Front courtesy light



Operate rocker switch:

 = automatic switching on and off.

press  = on.

press  = off.

Rear courtesy lights



Illuminate in conjunction with the front courtesy light depending on rocker switch position.

Reading lights



Operated with ☀ and 🌙 buttons in front and rear courtesy lights.

Sunvisor lights

Illuminates when the cover is opened.

Lighting features

Entry lighting

Lead me to the car lighting

Foglights, park lights and reversing lights are switched on for 30 seconds by pressing button 🚗 on the remote control once. This function facilitates locating the vehicle when it is dark.



Press 🚗 again or switch on ignition will deactivate this function previously.

Press and hold button 🚗 for at least three seconds will activate panic alarm, ➡ 18.

Welcome lighting

Headlights, tail lights, reversing lights, number plate lights, instrument panel light, interior lights and puddle lights are switched on for a short time by unlocking the vehicle with the button 🚗 on the remote control.

The lighting switches off immediately when the ignition is switched on or by pressing 🚗 again.

Activation or deactivation of this function can be changed in the menu Settings in the Info-Display. Vehicle personalisation ➡ 99.

The settings can be saved for the radio remote control being used ➡ 18.

Exit lighting

The following lights switch on if the ignition is switched off and driver's door is opened:

- Interior lights
- Puddle lights

They will switch off automatically after a delay. Theatre lighting is activated if the driver's door is opened during this time.



Headlights, tail lights, reversing lights and number plate lights illuminate the surrounding area for an adjustable time after leaving the vehicle.

Switching on

1. Switch off ignition.
2. Open driver's door.
3. Pull turn signal lever.
4. Close driver's door.

If the driver's door is not closed, the lights switch off after two minutes.

Exit lighting is switched off immediately if the turn signal lever is pulled a second time while the driver's door is open.

Activation, deactivation and duration of this function can be changed in the menu **Settings** in the Graphic-Info-Display or **Vehicle** in the Colour-Info-Display. Vehicle personalisation
↔ 99.

Theatre lighting

A soft light illumination is incorporated in the interior lighting and in the interior door opening handles. It comes on when the headlights are switched on. Depending on the version, softlights are also incorporated in the front footwell and in the door pockets.

Battery discharge protection

Battery state of charge function

The function guarantees longest battery life via a generator with controllable power output and optimised power distribution.

To prevent discharge of the battery when driving, following systems are reduced automatically in two stages and finally switched off:

- Auxiliary heater
- Heated rear window and mirrors
- Heated seats
- Fan

In the second stage a message which confirms the activation of the battery discharge protection will be displayed in the Driver Information Center.

Switching off electric lights

To prevent discharge of the battery when the ignition is switched off, some interior lights are switched off automatically after some time.

Climate control

Climate control systems	119
Air vents	126
Maintenance	127

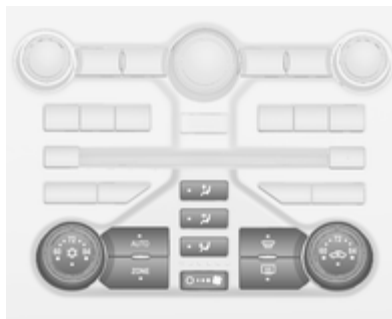
Climate control systems

Electronic climate control system

Heating, cooling and ventilation of the vehicle can be controlled by the system.

Dual zone automatic climate control system

The dual zone climate control allows different climatisation temperatures for driver and front passenger side.



Controls:

Lo	= driver's side
60..72..84 Hi	= temperature setting
	= cooling on/off
AUTO	= automatic mode on
ZONE	= various climate area setting
	= air distribution setting
	= fan speed setting
	= demisting and defrosting on/off
	= heated rear window on/off ⇄ 34.
	= manual air recirculation on/off
Lo	= passenger's side
60..72..84 Hi	= temperature setting

The preselected temperature is automatically regulated. In the automatic mode the fan speed and air distribution automatically regulate the air flow.

In automatic mode the LED in the button is on. The system can be manually adapted via the use of air

distribution and air flow controls as well as cooling button and manual air recirculation button.



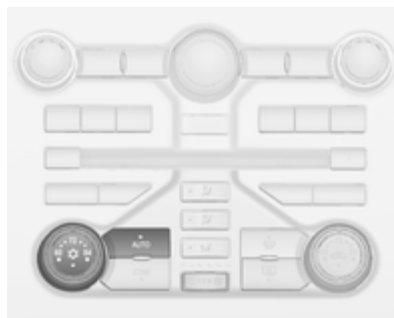
Each change of settings except heated rear window, is shown in the Info-Display for a few seconds.

Climate control system settings can be changed in the menu **Settings** in the Graphic-Info-Display or **Vehicle** in the Colour-Info-Display.

Vehicle personalisation ⇨ 99.

The electronic climate control system is only fully operational when the engine is running.

Automatic mode AUTO



Basic setting for maximum comfort:

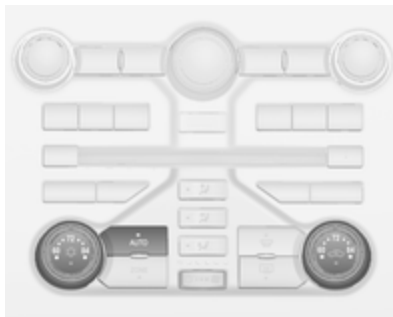
- Press **AUTO** button, the climate control system is activated automatically, indicated by the LED in the button.
- Open all air vents.
- Set the preselected temperatures for driver and front/rear passenger using the left and right rotary knob.
- The most usual temperature setting is between 64 - 75° F, depending on personal preference.

The fan speed regulation in automatic mode can be changed in the menu **Settings** in the Graphic-Info-Display or **Vehicle** in the Colour-Info-Display. Vehicle personalisation ⇨ 99.

All air vents are actuated automatically in automatic mode. The air vents should therefore always be open.

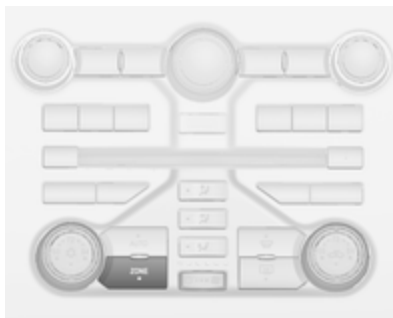
Temperature preselection

In dual zone mode the temperature can be adjusted separately for the driver and front/rear passenger. Turn the left and right temperature knob for adjusting temperature on the corresponding side. The rear seat temperature is connected to the front passenger side setting. Turn each side between 59° F and 85° F.



Zone selection **ZONE**

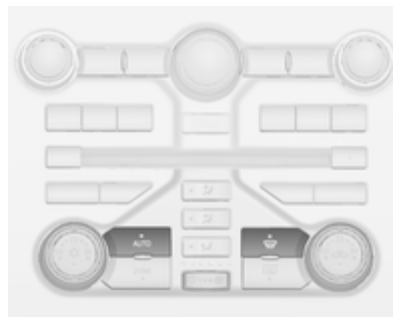
One or two respective three climate zones can be selected.






Press **ZONE** button to link all climate zone settings to the driver's settings. the LED in the **ZONE** button and on the passenger's temperature knob are off. A Pop-up message is indicated in the Info- Display. The temperature is set according the temperature knob for driver side.

To get back to multiple temperature zones, adjust the passenger temperature knobs. The LED in the **ZONE** button and on the passenger's temperature knob are on.

Demisting and defrosting the windows



- Press button .
- Temperature and air distribution are set automatically and the fan runs at high speed.
- Switch on heated rear window .
- To switch off demisting and defrosting mode press button **AUTO** to return to automatic mode. Press button  to return to the previous selected manual mode.



Heated rear window

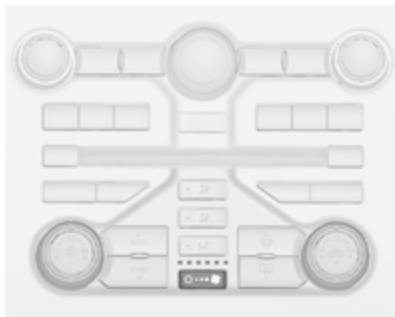
Operation ↷ 34.

Manual settings

Climate control system settings can be changed by activating the buttons as follows. Changing a setting will deactivate the automatic mode.

Fan speed

Press  on the rocker switch for increasing fan speed or  for decreasing. The fan speed is indicated by the number of LEDs above the rocker switch.






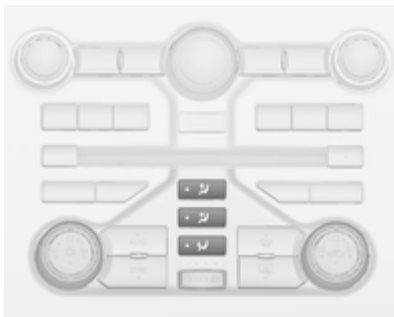
Pressing **O** longer or multiple, fan and cooling are switched off, the air conditioning system is also deactivated.


Pressing **✖** longer or multiple, the fan runs with maximum speed.


To return to automatic mode: Press **AUTO** button.


Air distribution

Press button ,  or  for desired adjustment. Activation is indicated by the LED in the button.



 = to windscreen and front door windows.


 = to head area via adjustable air vents

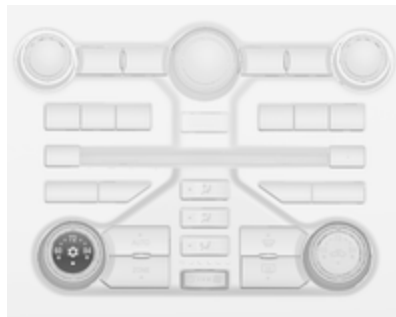
 = to foot well.

Combinations are possible.

Return to automatic air distribution:
Deactivate corresponding setting or
press button **AUTO**.

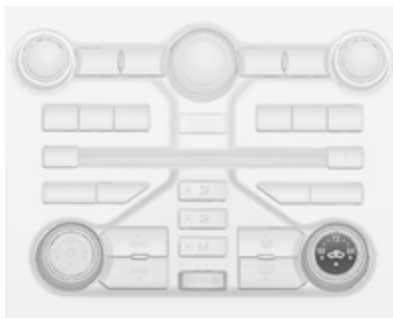
Cooling


Activate or deactivate with the  button. Activation is indicated by the LED in the button.



The air conditioning system cools and dehumidifies (dries) when outside temperature is above freezing point. Therefore condensation may form and drip from under the vehicle.

Manual air recirculation mode



Press  button to activate recirculation. Activation is indicated by the LED in the button.

Activated: Inside air is recirculated to prevent outside air and odors from entering.

Deactivated: Outside air is circulated through the vehicle.

Warning


The exchange of fresh air is reduced in air recirculation mode. In operation without cooling the air humidity increases, so the windows may mist up. The quality of the passenger compartment air deteriorates, which may cause the vehicle occupants to feel drowsy.

Automatic air recirculation

The climate control system has a sensor that detects air pollution. When the system is in the automatic mode **AUTO** (LED is on), the system switches automatically to inside recirculated air when air pollution is detected.

The sensitivity or deactivation of this function can be changed in the menu **Settings** in the Graphic-Info-Display or **Vehicle** in the Colour-Info-Display. Vehicle personalisation ⇨ 99.

Automatic defog

The system has a sensor that detects high humidity inside the vehicle. If internal air humidity is too high, the system switches automatically to external air. Switch on cooling , change the air distribution mode and increase fan speed and temperature.

If the humidity is reduced, the system returns to normal operation.

The automatic defog function can be deactivated in the menu **Settings** in the Graphic-Info-Display or **Vehicle** in the Colour-Info-Display.

Vehicle personalisation ⇨ 99.

Automatic rear window demist

The rear window defogger can be set to automatic operation when the interior temperature is cold and the outside temperature is below 39° F.

The rear window defogger switches of automatically after about 10 minutes.

The automatic rear window defog function can be activated or deactivated in the menu **Settings** in

the Graphic-Info-Display or **Vehicle** in the Colour-Info-Display. Vehicle personalisation ↷ 99.

Basic settings

Some settings can be changed in the menu **Settings** in the Graphic-Info-Display or **Vehicle** in the Colour-Info-Display in the Info-Display. Vehicle personalisation ↷ 99.

Solar sensor

The climate control system uses the sensor information to adapt temperature, fan speed, recirculation and air distribution for best comfort.



The sensor is located on top of the instrument panel behind the windshield. If the sensor is covered the climate control system may not work properly.

Rear air conditioning system

The rear air conditioning system provides an opportunity for a nearly independent climate on the rear seats by adapting the values for temperature, air distribution and fan speed.



Controls

- ✖ — or + ✖ = fan speed setting
- ↺ = air distribution setting / automatic mode
- or + = rear passenger's temperature setting

The preselected temperature is automatically regulated. In the automatic mode the fan speed and air distribution automatically regulate the air flow.

The system can be manually adapted via the use of air distribution and air flow controls.



Each change of settings is indicated in the rear climate control display. If rear audio is on the settings disappear after a few seconds.

Switching rear climate control system on or off

Switching on by pressing any rear climate control button.

When the rear climate control is switched on from the rear, the LED in the **ZONE** button in the front panel lights up.


Press **ZONE** button to switch off rear blower and match the rear settings to the front settings. The LED in the **ZONE** button and the rear climate control display will turn off.


Switch off the rear climate control by pressing button **✖** —. There is no air flow from rear vents or rear floor.

The rear climate control will not work if the front climate control is in defrost mode.

Automatic mode for rear climate control system





- Press button  until **AUTO** is indicated in the display.
- Open the rear air vents.
- Set the preselected temperature by pressing button **+** or **—**.

The air is only cooled if the button  in the front climate control panel is activated. Activation is indicated by the LED in the button.

Manual settings





Rear climate control system settings can be changed by activating the buttons as follows. Changing a setting will deactivate the automatic mode.




Fan speed

Press button  — for decreasing fan speed or **+**  for increasing. The fan speed is indicated in the display.

To return to automatic mode: press button  until **AUTO** is indicated in the display.

Air distribution

Press button  until  or  or  appears for desired adjustment. The mode is indicated in the display.

-  = to head area via adjustable air vents
-  = to foot well and rear fan will be shut off
-  = to head area and foot well similar

To return to automatic mode: press button  until **AUTO** is indicated in the display.

Temperature preselection **+** **-**

The temperature can be adjusted separately for the rear passenger. Press button **+** for warmer air or **-** for cooler air. The value is indicated in the display.

Auxiliary heater

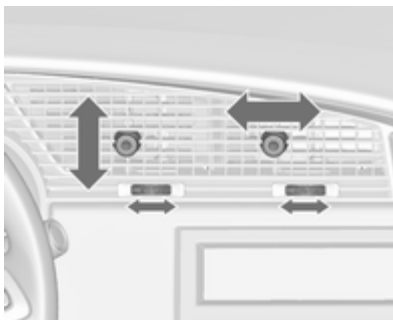
Air heater

Quickheat is an electric auxiliary air heater which warms up the passenger compartment more quickly.

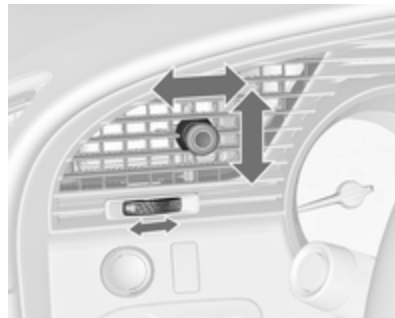
The system works automatically, it has not to be switched on or off.

Air vents

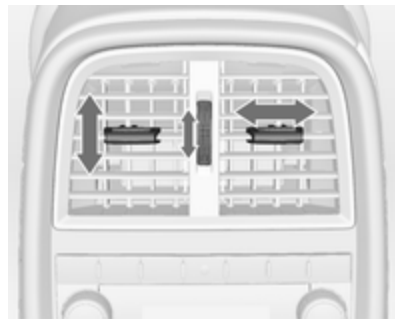
Adjustable air vents



Turn the adjuster wheel to open or close the vent or to adjust the air amount.



Direct the flow of air by tilting and swivelling the slats.

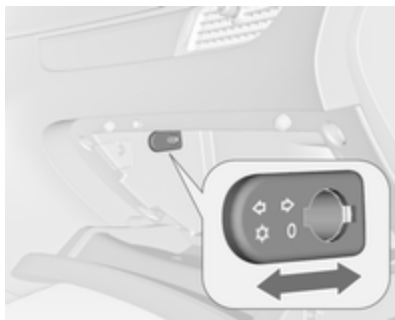


⚠ Warning

Do not attach any objects to the slats of the air vents. Risk of damage and injury in case of an accident.

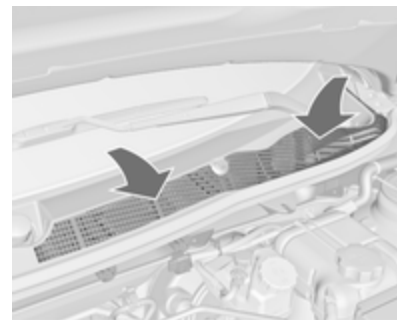
Fixed air vents

Additional air vents are located beneath the windscreen and door windows and in the front and rear foot wells.

Glovebox cooler

Cooled air is distributed into the glove box by a vent.

If glove box cooling is not required, close the vent by sliding.

Maintenance**Air intake**

The air intake in front of the windscreen in the engine compartment must be kept clear to allow air intake. Remove any leaves, dirt or snow.

Pollen filter**Cabin air filtration**

A particle filter cleans the cabin air from dust, soot, pollen and spores.

Active carbon filter

In addition to the particle filter the active carbon filter reduces odors.

Filter service has to be done during the regular service interval.

Air conditioning regular operation

In order to ensure continuously efficient performance, cooling must be operated for a few minutes once a month, irrespective of the weather and time of year. Operation with cooling is not possible when outside temperature is too low.

General hints

Clear away any ice, snow or leaves from air inlets at the base of the windshield that could block the flow of air into the vehicle.

Keep the path under the front seats clear of objects to help circulate the air inside of the vehicle more effectively.

Keep all outlets open whenever possible for best system performance.

Use of non-Saab approved hood deflectors can adversely affect the performance of the system.

Service

For optimal cooling performance, it is recommended to annually check the climate control system, starting three years after initial vehicle registration, including:

- Functionality and pressure test
- Heating functionality
- Leakage check
- Check of drive belts
- Cleaning of condenser and evaporator drainage
- Performance check

Driving and operating

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Driving hints

Control of the vehicle

Never coast with engine not running

Many systems will not function in this situation (e.g. brake servo unit, power steering). Driving in this manner is a danger to yourself and others.

Pedals

To ensure the pedal travel is uninhibited, there must be no mats in the area of the pedals.

Warning

Additional mats must always be thoroughly secured to the floor, otherwise they could slide forward. This is particularly important on the driver's side as the mat could otherwise slide under the pedals and interfere with driving. Never use additional mats on top of each other.

Starting and operating

New vehicle running-in

Do not brake unnecessarily hard for the first few journeys.

During the first drive, smoke may occur because of wax and oil evaporating off the exhaust system. Park the vehicle in the open for a while after the first drive and avoid inhaling the fumes.

During the running-in period fuel and engine oil consumption may be higher.

Starting the engine



- The remote control unit needs to be in the compartment.
- Press and hold brake pedal and move selector lever in **P** or **N**.
- Push **Start/Stop** button to start the engine.
- Do not press accelerator pedal while starting.

Switching off the engine

- Push **Start/Stop** button while engine is running and vehicle stationary to switch off the engine.
- In case of emergency the engine can be switched off while the vehicle is running: push **Start/Stop** button twice. When the engine is not running, considerably more force is needed to brake and steer.

Accessory power mode

Push **Start/Stop** button once without pressing brake pedal: **accessory power mode** is active, the yellow LED in the button illuminates. In this mode steering wheel lock is released and some electrical functions are operable.

Ignition on power mode

Push and hold **Start/Stop** button for 3 to 5 seconds without pressing brake pedal: **ignition on power mode** is active, the green LED in the button illuminates. In this mode all electrical functions are operable.

To start the engine from **Ignition on power mode**, press brake pedal and push **Start/Stop** button once more.

Note

Do not put the remote control in the luggage compartment or very close to the Info-Display.

Steering wheel lock

The steering wheel lock activates automatically when

- the vehicle is stationary and
- the ignition has been switched off and
- the driver's door is opened.

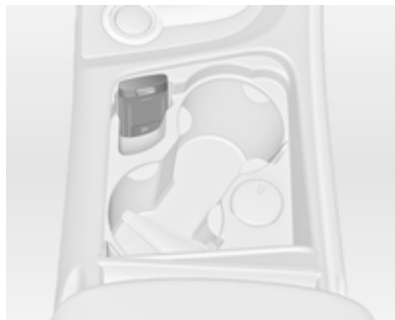
To release steering wheel lock, open and close driver's door and switch on accessory mode or start the engine directly.

Warning

If the battery is discharged, the vehicle must not be towed, tow-started or jump-started as the steering wheel lock cannot be disengaged.

Emergency operation

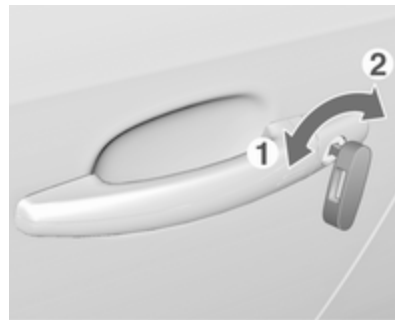
If either the remote control fails or the battery of the remote control is weak, unlock (1) the driver's door with the mechanical key ⇨ 18. The Driver Information Center may display **No Remote Detected** or **Replace Battery in Remote Key** when you try to start the vehicle.



Open the center console storage area. Place the Remote Control in the transmitter pocket near the cupholder. Depress the brake pedal and push the **Start/Stop** button.

To switch off the engine, push the **Start/Stop** button again. Remove the remote control of the transmitter pocket and push inside locking knob of all doors except driver's door. Then close the driver's door and lock it from the outside with the mechanical key (2).

Fault in remote control system or passive entry system ⇨ 21.



This option is intended for emergencies only. Replace the remote control battery as soon as possible ⇨ 18.

Parking

- Do not park the vehicle on an easily ignitable surface. The high temperature of the exhaust system could ignite the surface.
- Always apply electrical parking brake.
- If the vehicle is on a level surface or uphill slope, set the selector lever to **P** before switching off the engine.

On an uphill slope, turn the front wheels away from the kerb.

If the vehicle is on a downhill slope, set the selector lever to **P** before switching off the engine. Turn the front wheels towards the kerb.

- Lock the vehicle and activate the anti-theft alarm system.

Note

In the event of an accident with airbag deployment the engine is turned off automatically, if the vehicle is coming to a stillstand within a certain time.

Engine exhaust

⚠ Danger

Engine exhaust gases contain poisonous carbon monoxide, which is colourless and odourless and could be fatal if inhaled.

If exhaust gases enter the interior of the vehicle, open the windows. Have the cause of the fault rectified by a workshop.

Avoid driving with an open load compartment, otherwise exhaust gases could enter the vehicle.

Catalytic converter

The catalytic converter reduces the amount of harmful substances in the exhaust gases.

Caution

Fuel grades other than those listed on page ⇨ 149 could damage the catalytic converter or electronic components.

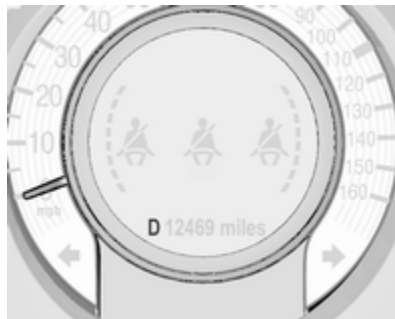
Unburnt petrol will overheat and damage the catalytic converter. Therefore avoid excessive use of the starter, running the fuel tank dry and starting the engine by pushing or towing.

In the event of misfiring, uneven engine running, a reduction in engine performance or other unusual problems, have the cause of the fault rectified by a workshop as soon as possible. In an emergency, driving can be continued for a short period, keeping vehicle speed and engine speed low.

Automatic transmission

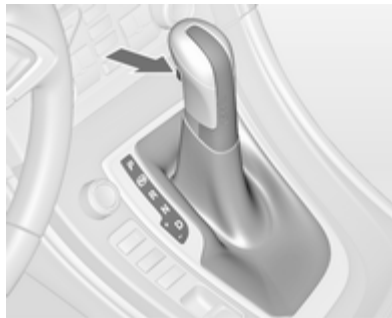
The automatic transmission permits automatic gearshifting (automatic mode) or manual gearshifting (manual mode).

Transmission display



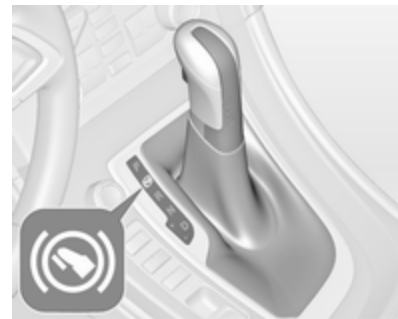
The mode or selected gear is shown in the transmission display.

Selector lever



- P** = park position, wheels are locked, engage only when the vehicle is stationary and the parking brake is applied
- R** = reverse gear, engage only when vehicle is stationary
- N** = neutral
- D** = automatic mode with all gears

The selector lever is locked in **P** and can only be moved when ignition mode is on, the brake pedal is applied and the release button on the selector lever is pressed.



Without applied brake pedal the control indicator (⚡) illuminates.

If the selector lever is not in **P** when the ignition is switched off, control indicator (⚡) and **P** flash.

To engage **P** or **R**, push the release button.

The engine can only be started with lever in position **P** or **N**. When position **N** is selected, press brake pedal.

Do not accelerate while engaging a gear. Never depress the accelerator pedal and brake pedal at the same time.

When a gear is engaged, the vehicle slowly begins to creep when the brake is released.

Engine braking

To utilise the engine braking effect, select a lower gear in good time when driving downhill, see manual mode.

Rocking the vehicle

Rocking the vehicle is only permissible if the vehicle is stuck in sand, mud or snow. Move the selector lever between **D** and **R** in a repeat pattern. Do not race the engine and avoid sudden acceleration.

Parking

Apply the parking brake and engage **P**.

Manual mode

Manual mode with selector lever



Move selector lever out of position **D** towards the left and then forwards or backwards.

M or the number of the selected gear is indicated in the transmission display.

+ = Shift to a higher gear.

- = Shift to a lower gear.

Manual mode with steering wheel shifter



Move selector lever out of position **D** towards the left.

M or the number of the selected gear is indicated in the transmission display.

Use steering wheel shifter to select gears manually.

+ = right shifter, pull for high shifting.

- = left shifter, pull for low shifting.

General

If a higher gear is selected when vehicle speed is too low, or a lower gear when vehicle speed is too high, the shift is not executed. This can cause a message in the Driver-Info-Display.

In manual mode no automatic shifting to a higher gear takes place at high engine revolutions.

Electronic driving programmes


- Following a cold start, the operating temperature programme increases engine speed to quickly bring the catalytic converter to the required temperature.
- The automatic neutral shift function automatically shifts to idling when the vehicle is stopped with a forward gear engaged and the brake pedal is pressed. This function is not available on all engines.

- When Sport mode is engaged, the vehicle shifts at higher engine speeds (unless cruise control is on) and some additional functionality, such as holding gears at accelerator pedal release and downshift earlier when braking, are enabled. Sport mode ⇨ 140.
- Special programmes automatically adapt the shifting points when driving up inclines or down hills.

Kickdown

If the accelerator pedal in automatic mode is pressed down completely, the transmission shifts to a lower gear depending on engine speed.

Fault

In the event of a fault,  together with a vehicle message is displayed in the Driver Information Center. Vehicle messages ⇨ 93.

The transmission no longer shifts automatically. Continued travel is possible with manual shifting.

Only the highest gear is available. Depending on the fault, 2nd gear may also be available in manual mode. Shift only when vehicle is in standstill. Have the cause of the fault remedied by a workshop.

Interruption of power supply

In the event of an interruption of power supply, the selector lever cannot be moved out of the **P** position.

If the battery is discharged, start the vehicle using jump leads ⇨ 190.

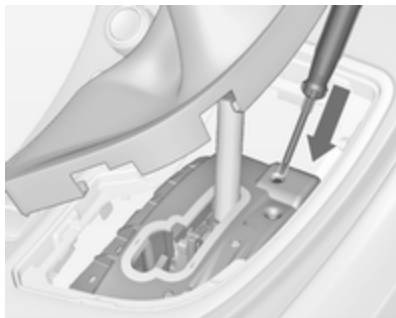
If the battery is not the cause of the fault, release the selector lever.

Release selector lever

1. Apply parking brake.



2. Release selector lever trim from centre console at rear, fold upwards and rotate to the left.



3. Insert a screwdriver into the opening as far as it will go and move the selector lever out of **P** or **N**. If **P** or **N** is engaged again, the selector lever will be locked in position again. Have the cause of the power supply interruption remedied by a workshop.
4. Mount the selector lever trim on the centre console and refit.

Drive systems

All-wheel drive

The All-wheel drive system enhances driving characteristics and stability, and helps to achieve the best possible driveability regardless of ground surface. The system is always active and cannot be deactivated.

The torque is distributed steplessly between the front and rear wheels, depending on the driving conditions.

For optimum system performance, the vehicle's tyres should not have varying degrees of wear.

If a message regarding All-wheel drive is displayed in the Driver Information Center, the system may have limited functionality (or be completely disabled in some cases, i.e. the vehicle switches to Front-wheel drive). Seek the assistance of a workshop if following messages are displayed:

- **Service All Wheel Drive System**
- **Service Rear Axle**

Towing the vehicle ⇨ 191.

Brakes

The brake system comprises two independent brake circuits.

If a brake circuit fails, the vehicle can still be braked using the other brake circuit. However, braking effect is achieved only when the brake pedal is depressed firmly. Considerably more force is needed for this. The braking distance is extended. Seek the assistance of a workshop before continuing your journey.

When the engine is not running, the support of the brake servo unit disappears once the brake pedal has been depressed once or twice. Braking effect is not reduced, but braking requires significantly greater force. It is especially important to bear this in mind when being towed.

Control indicator (C) ⇨ 82.

Antilock brake system

Antilock brake system (ABS) prevents the wheels from locking.

ABS starts to regulate brake pressure as soon as a wheel shows a tendency to lock. The vehicle remains steerable, even during hard braking.

ABS control is made apparent through a pulse in the brake pedal and the noise of the regulation process.

For optimum braking, keep the brake pedal fully depressed throughout the braking process, despite the fact that the pedal is pulsating. Do not reduce the pressure on the pedal.

Control indicator (ABS) ⇨ 83.

Adaptive brake light and hazard warning flashers

During full ABS braking, all three brake lights flash for the duration of ABS control.

Fault

Warning

If there is a fault in the ABS, the wheels may be liable to lock due to braking that is heavier than normal. The advantages of ABS are no longer available. During hard braking, the vehicle can no longer be steered and may swerve.

Have the cause of the fault remedied by a workshop.

Parking brake

Electrical parking brake



Applying when vehicle is stationary

Pull switch (P), the electrical parking brake operates automatically with an adequate force. For maximum force, e.g. parking with trailer or on inclines, pull switch (P) twice.

The electrical parking brake can always be activated, even if the ignition is off.

Do not operate electrical parking brake system too often without engine running because this will discharge the battery.

Before leaving the vehicle, check the electrical parking brake status.

Control indicator (P) ⇨ 82.

Releasing

Switch on ignition. Keep foot brake pedal depressed and then push switch (P).

Drive away function

Engaging drive gear and then depressing the accelerator pedal releases the electrical parking brake automatically. This is not possible when the switch is pulled at the same time.

This function also helps driving away on inclines.

Aggressive drive away may reduce life time of wear parts.

Dynamic braking when vehicle is moving

When the vehicle is moving and the switch (P) is kept pulled, the electrical parking brake system will decelerate the vehicle, but will not apply statically.


As soon as the switch (P) is released, dynamic braking will be stopped.


Fault

Failure mode of electrical parking brake is indicated by a control indicator (P) and a vehicle message in the Driver Information Center. Vehicle messages ⇨ 93.

Apply electrical parking brake: pull and hold the switch (P) for more than 5 seconds. If control indicator (P) illuminates, electrical parking brake is applied.

Release electrical parking brake: push and hold the switch (P) for more than 2 seconds. If control indicator (P) goes out, electrical parking brake is released.

Control indicator  flashes: electrical parking brake is not fully applied or released. When continuously flashing, release electrical parking brake and retry applying.

 flashes 2 times when park brake is applied.

Brake assist

If the brake pedal is depressed quickly and forcefully, maximum brake force is automatically applied (full braking).


Maintain steady pressure on the brake pedal for as long as full braking is required. Maximum brake force is automatically reduced when the brake pedal is released.

Ride control systems

Traction Control system

Traction Control System (TCS) improves driving stability when necessary, regardless of the type of road surface or tyre grip, by preventing the drive wheels from spinning.

As soon as the drive wheels starts to spin, engine output is reduced and the wheel spinning the most is braked individually. This considerably improves the driving stability of the vehicle on slippery road surfaces.

TCS is operational as soon as the control indicator  extinguishes.

When TCS is active  flashes.

Warning


Do not let this special safety feature tempt you into taking risks when driving.


Adapt speed to the road conditions.


Control indicator  83.

Deactivation



TCS can be switched off when spinning of drive wheels is required: press button  shortly.

Control indicator  illuminates and a message is indicated in the Driver Information Center.


TCS is reactivated by pressing the  button again.

TCS is also reactivated the next time the ignition is switched on.

Electronic stability program

Electronic Stability Program (ESP) improves driving stability when necessary, regardless of the type of road surface or tyre grip. It also prevents the drive wheels from spinning.

As soon as the vehicle starts to swerve (understeer/oversteer), engine output is reduced and the wheels are braked individually. This considerably improves the driving stability of the vehicle on slippery road surfaces.

ESP is operational as soon as the control indicator  extinguishes.

When ESP is active,  flashes.

Warning


Do not let this special safety feature tempt you into taking risks when driving.


Adapt speed to the road conditions.


Control indicator   83.

Deactivation



For very high-performance driving ESP can be deactivated: hold button  depressed for approx. 3 seconds.

Control indicator  illuminates and a message is indicated in the Driver Information Center.

ESP is reactivated by pressing the  button again. If the TC system was previously disabled, both TC and ESP are reactivated.

ESP is also reactivated the next time the ignition is switched on.

Interactive driving system

Drive Sense

Drive Sense driving system allows the driver to select between three driving modes:

- **COMFORT** mode: turn knob towards **C**, LED illuminates and a message is indicated in the Driver Information Center.
- **INTELLIGENT** mode: turn knob towards **I**, LED illuminates.
- **SPORT** mode: turn knob towards **S**, LED illuminates and a message is indicated in the Driver Information Center.

With each ignition switched on, the system starts in Intelligent mode.

Activated COMFORT or SPORT mode is indicated by a label in the Driver Information Display.

In each driving mode Drive Sense networks the following electronic systems:

- Continuous Damping Control.
- Accelerator Pedal Control.

- Steering Control.
- All-wheel drive Control.
- Automatic transmission.



COMFORT mode

The settings of the systems are adapted to a comfort driving style:

- Damping of shock absorbers reacts softer.
- Accelerator pedal reacts with standard settings.
- Steering support is in standard mode.

- Optimal amount of engine torque is distributed to the rear axle to get a more comfortable vehicle behavior.
- Shift points of automatic transmission occur in a comfort mode.

INTELLIGENT mode

All settings of the systems are adapted to standard values.

SPORT mode

The settings of the systems are adapted to a sportier driving style:

- Damping of shock absorbers reacts stiffer to provide better contact with the road surface.
- Steering support is reduced.
- Optimal amount of engine torque is distributed to the rear axle to get a sporty vehicle behavior.
- Shift points of automatic transmission occur later.

Drive mode control

In driving mode INTELLIGENT, the Drive Mode Control (DMC) detects and analyses continuously the real driving characteristic, responses by the driver, and the active dynamic state of the vehicle. If necessary the control unit of DMC automatically changes the settings within the INTELLIGENT driving mode or when recognising greater variations, the driving mode is changed in COMFORT or SPORT for the length of variation.

If, for example, INTELLIGENT mode is selected and DMC detects a sporty driving behaviour, DMC changes several settings of the Intelligent mode into sporty settings. The DMC changes to SPORT mode in case of very sporty driving behaviour.

If, for another example, INTELLIGENT mode is selected and whilst driving on a winding road a sudden hard brake is necessary, DMC will detect the dynamic vehicle

condition and changes the settings for suspension to SPORT mode to increase vehicle stability.

When the driving characteristic or the dynamic vehicle state returns to former state, DMC will change the settings to INTELLIGENT driving mode.

Personalised settings in the SPORT mode

The driver can select the functions of the SPORT mode when **SPORT** setting is selected. These settings can be changed in the menu **Settings** in the Graphic-Info-Display or **Sport** in the Colour-Info-Display. Vehicle personalisation ➔ 99.

Cruise control

The cruise control can store and maintain speeds of approx. 20 to 120 mph. Deviations from the stored speeds may occur when driving uphill or downhill.

For safety reasons the cruise control cannot be activated until the foot brake has been operated once. Activating in first gear is not possible.





Do not use the cruise control if it is not advisable to maintain a constant speed.


With automatic transmission, only activate cruise control in automatic mode.

Control indicator  ➔ 85.

Switching on

Press rocker switch  at the upper end, control indicator  illuminates white.

Activation

Accelerate to the desired speed and turn thumb wheel to **SET/-**, the current speed is stored and maintained. Control indicator  illuminates green. The stored speed is displayed as Popup Message **Cruise Set To ...** in the Driver Information Center. Accelerator pedal can be released.

Vehicle speed can be increased by depressing the accelerator pedal. When the accelerator pedal is released, the previously stored speed is resumed.

Increase speed



With cruise control active, hold thumb wheel turned to **RES/+** or briefly turn to **RES/+** repeatedly: speed increases continuously or in small increments.

Alternatively accelerate to the desired speed and store by turning to **SET/-**.

Reduce speed

With cruise control active, hold thumb wheel turned to **SET/-** or briefly turn to **SET/-** repeatedly: speed decreases continuously or in small increments.

Deactivation

Press button , control indicator  illuminates white. Cruise control is deactivated. The stored speed is maintained.

Automatic deactivation:



- vehicle speed below approx. 20 mph,
- the brake pedal is depressed,
- selector lever in **N**,

- the electrical park brake is applied,
- the Traction Control system or Electronic Stability Control is operating.

Resume stored speed

Turn thumb wheel to **RES/+** at a speed above 20 mph. The stored speed will be obtained.

Switching off

Press rocker switch  at the lower end, control indicator  is off. The stored speed is deleted. Switching off the ignition deletes also the stored speed.

Object detection systems

Parking assist



The parking assist makes parking easier by measuring the distance between the vehicle and obstacles, and giving acoustic signals. It is the driver, however, who bears full responsibility for the parking manoeuvre.

The system consists of four ultrasonic parking sensors in each of the front and rear bumpers.

Activation



When reverse gear is engaged, the system is activated automatically.

The front parking assist can also be activated at a low speed by pressing the **P** button.

An illuminated LED in the parking assist button indicates that the system is ready to operate.

An obstacle is indicated by a buzzing sound. The interval between the sounds becomes shorter as the vehicle gets closer to the obstacle. When the distance is less than 1 ft, the buzzing is continuous.

There are different sounds for the indication of front and rear obstacles, sounding from front and rear speakers.

Additionally the front distance to an obstacle is indicated in the Driver Information Center.

Deactivation

Deactivate the system by pressing the **P** button.

The LED in the button will go out and **Park Assist Off** will be displayed in the Driver Information Center.

The system is deactivated automatically when the vehicle is driven above a certain speed.

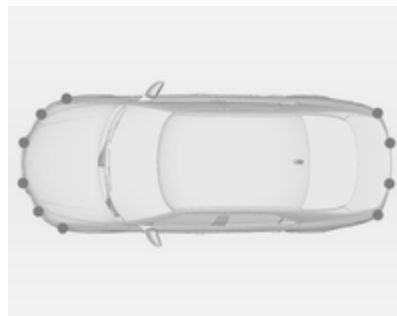
Fault

In the event of a fault in the system, a message is displayed in the Driver Information Center.

If the system does not work due to temporary conditions like snow covered sensors, a message is displayed in the Driver Information Center.

Vehicle messages ⇨ 93.

Advanced parking aid



The advanced parking aid system manoeuvres the driver into a parking slot by giving instructions on the Driver Information Center and acoustic signals. It is the driver, however, who bears full responsibility for accepting the parking slot suggested by the system and the parking manoeuvre.

The system uses the sensors of the parking assist system in combination with two additional sensors on both sides of the front bumper.

Activation



When looking for a parking slot, the system has to be activated by pressing the **P+R** button.

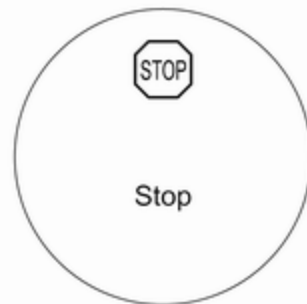
The system only operates at a speed up to 19 mph.

The maximum allowed parallel distance between the vehicle and a row of parking cars is 6 ft.

Functionality



When the vehicle passes a row of cars and the system is activated, the advanced parking aid system is looking for a suitable parking slot. When a suitable slot is detected, a visual feedback and acoustic signals are given on the Driver Information Center.



The suggestion of the system is accepted, when the vehicle is stopped by the driver within 33 ft after the message is given. The system calculates the optimal route into the parking slot. Then it manoeuvres the driver into the slot by giving detailed instructions.



The instructions show:


- a hint when driving faster than 19 mph,
- the demand to stop the vehicle, when a parking slot is detected,
- the direction of driving during the parking manoeuvre,
- the steering wheel position during parking,
- for some of the instructions a progress bar is shown.

A successful parking manoeuvre is indicated by the target symbol.




If the driver does not stop the vehicle within 33 ft after a parking slot is proposed, the system starts to search for another suitable parking slot.

Changing the parking side

The system is configured to detect parking slots on the passenger side. To detect parking slots on the driver side, push button  for approx. 2 seconds.


Display priorities

After activating the advanced parking aid, an information appears on the Driver Information Center. Indication of messages with higher priority like

Vehicle Messages  93 will be displayed. After approving the message by pressing the **SET/CLR** button, parking aid messages appear again and parking can be continued.

Deactivation

The system is deactivated by:

- pushing the  button
- parking manoeuvre successfully ended
- driving faster than 19 mph
- switching off the ignition


Deactivation by the driver or by the system during manoeuvring will be indicated by **Parking Deactivated** in the Driver Information Center.

Fault

A message appears in the Driver Information Center when:

- there is a fault in the system
- the driver did not successfully complete the parking manoeuvre
- the system is not operative



If an object is detected during parking instructions, **STOP** is indicated in the Driver Information Center. Removing the object will continue parking manoeuver. If the object is not removed, the system will be deactivated. Push button  to activate the system for searching a new parking slot.

Important hints for using the parking assist systems

Warning

Under certain circumstances, various reflective surfaces on objects or clothing as well as external noise sources may cause the system to fail to detect obstacles.

Caution

Performance of the sensor can be reduced when sensors are covered, e.g. by ice or snow.

Performance of the parking assist systems can be reduced by a level change of the sensors due to heavy loading.

Special conditions apply if there are taller vehicles involved (e.g. off-road vehicles, mini vans, vans). Object identification in the upper part of the vehicle cannot be guaranteed.

Objects with a very small reflection cross section, like objects of narrow size or soft materials, may not be detected by the system.

Parking assist systems are not effective in assisting drivers in avoiding a collision with unexpected objects.

Note

The parking assist system automatically detects factory-fitted towing equipment. It is deactivated when the connector is plugged in.

Sensor could detect a nonexisting object (echo disturbance) caused by external acoustical or mechanic disturbances.

Advanced parking aid system may not respond to changes in the parking space after initiating a parallel parking manoeuvre.

Lane departure warning

The Lane departure warning system observes the lane markings between which the vehicle is driving via a front camera. The system detects lane changes and warns the driver in the event of an unintended lane change by visual and acoustic signals.

Criteria for the detection of an unintended lane change are



- no operation of turn signals
- no brake pedal operation

- no active accelerator operation or speeding-up

- no active steering


If the driver is active, no warning will be issued.

Activation

The Lane departure warning system is activated by pressing the  button. The illuminated LED in the button indicates that the system is switched on. When the control indicator  in the instrument cluster illuminates green, the system is ready to operate.


The system is only operable at vehicle speeds above 37 mph and if lane markings are available.



When the system recognizes an unintended lane change, the control indicator  changes to yellow and flashes. Simultaneously a buzzing sound is activated.



Deactivation


The system is deactivated by pushing  button. Deactivation is indicated by a message in the Driver Information Center.

At speeds below 37 mph the system is inoperable.

Fault

The Lane departure warning system may not operate properly when:

- the windscreen is not clean
- there are adverse environmental conditions like heavy rain, snow, direct sunlight or shadows
- no lane marking can be detected

If the Lane departure warning system detects one of these conditions, the control indicator  will turn off.

Additionally a warning message is displayed in the Driver Information Center.

Fuel

Fuel for petrol engines

Only use unleaded fuel.

Use of the recommended fuel is an important part of the proper maintenance of this vehicle.

To help keep the engine clean and maintain optimum vehicle performance, we recommend the use of gasoline advertised as TOP TIER Detergent Gasoline. Look for the TOP TIER label on the fuel pump to ensure gasoline meets enhanced detergency standards developed by auto companies. A list of marketers providing TOP TIER Detergent Gasoline can be found at www.toptiergas.com.

Use fuel with the recommended octane rating. Use of fuel with too low an octane rating can reduce engine power and torque and slightly increases fuel consumption.

Caution

Use of fuel with too low an octane rating could lead to uncontrolled combustion and engine damage.

Gasoline Specifications

It is recommended that gasoline meet specifications which were developed by automobile manufacturers around the world and contained in the World-Wide Fuel Charter which is available from the Alliance of Automobile Manufacturers at www.autoalliance.org/fuel_charter.htm. Gasoline meeting these specifications could provide improved driveability and emission control system performance compared to other gasoline.

At a minimum, gasoline should meet ASTM specification D 4814 in the United States. Some gasolines contain an octane-enhancing additive called methylcyclopentadienyl manganese tricarbonyl (MMT). We recommend against the use of gasolines containing MMT.

Note

Gasolines containing oxygenates, such as ethers and ethanol, and reformulated gasolines may be available in your area. We recommend that you use these gasolines, if they comply with the specifications described earlier. However, E85 (85% ethanol) and other fuels containing more than 10% ethanol must not be used in vehicles that were not designed for those fuels.

California Fuel

If your vehicle is certified to meet California Emission Standards (see the under hood emission control label), it is designed to operate on fuels that meet California specifications. If this fuel is not available in states adopting California emissions standards, your vehicle will operate satisfactorily on fuels meeting federal specifications, but emission control system performance may be affected. The malfunction indicator lamp may turn on and your vehicle may fail a emission system inspection ⇨ 82.

If this occurs, return to your authorized Saab dealer for diagnosis. If it is determined that the condition is caused by the type of fuel used, repairs may not be covered by your warranty.

Fuel Additives

To provide cleaner air, all gasolines in the United States are now required to contain additives that help prevent engine and fuel system deposits from forming, allowing the emission control system to work properly. In most cases, you should not have to add anything to the fuel. However, some gasolines contain only the minimum amount of additive required to meet U.S. Environmental Protection Agency regulations. To help keep fuel injectors and intake valves clean, or if the vehicle experiences problems due to dirty injectors or valves, look for gasoline that is advertised as TOP TIER Detergent Gasoline. Look for the TOP TIER label on the fuel pump to ensure gasoline meets enhanced detergency standards developed by the auto companies. A list of

marketers providing TOP TIER Detergent Gasoline can be found at www.toptiergas.com.

For customers who do not use TOP TIER Detergent Gasoline regularly, one bottle of GM Fuel System Treatment PLUS, added to the fuel tank at every engine oil change, can help clean deposits from fuel injectors and intake valves. GM Fuel System Treatment PLUS is the only gasoline additive recommended by General Motors. It is available at your dealer/retailer.

Gasolines containing oxygenates, such as ethers and ethanol, and reformulated gasolines might be available in your area. We recommend that you use these gasolines, if they comply with the specifications described earlier.

This vehicle was not designed for fuel that contains methanol. Do not use fuel containing methanol. It can corrode metal parts in the fuel system and also damage plastic and rubber parts. That damage would not be covered under the vehicle warranty.

Some gasolines that are not reformulated for low emissions can contain an octane-enhancing additive called methylcyclopentadienyl manganese tricarbonyl (MMT); ask the attendant where you buy gasoline whether the fuel contains MMT. Saab does not recommend the use of such gasolines.

Fuels containing MMT can reduce the life of spark plugs and the performance of the emission control system may be affected. The malfunction indicator lamp may turn on. If this occurs, return to your Saab dealer/retailer for service.

Fuels in Foreign Countries

If you plan on driving in another country outside the United States or Canada, the proper fuel might be hard to find. Never use leaded gasoline or any other fuel not recommended in the previous text on fuel. Costly repairs caused by use of improper fuel would not be covered by the vehicle warranty.

To check the fuel availability, ask an auto club, or contact a major oil company that does business in the country where you will be driving.

Refuelling

Danger

Follow the operating and safety instructions of the filling station when refuelling.

If you spill fuel and then something ignites it, you could be badly burned. Fuel can spray out on you if you open the fuel cap too quickly. This spray can happen if your tank is nearly full, and is more likely in hot weather. Open the fuel cap slowly and wait for any "hiss" noise to stop. Then unscrew the cap all the way.

Gasoline fumes are highly explosive. Therefore:

- before refuelling, switch off engine and any external heaters with combustion chambers.
- never smoke while refueling.
- never use gasoline for any purpose other than as engine fuel.

- gasoline is extremely flammable and can cause severe burns. No open or exposed flames near gasoline.

- do not use a mobile phone at the same time as refueling.

- if you can smell fuel in your vehicle, have the cause of this remedied immediately by a workshop.

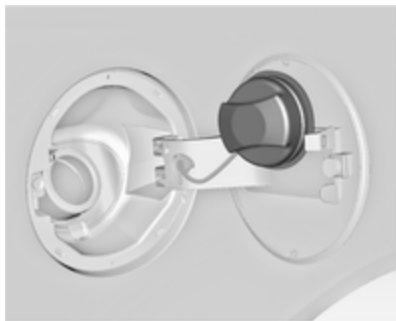
If a fire starts while you are refueling, do not remove the nozzle. Shut off the flow of fuel by shutting off the pump or by notifying the station attendant. Leave the area immediately.

Fuel filler flap is located at the right rear side of vehicle.



The fuel filler flap can only be opened if the vehicle is unlocked. Release the fuel filler flap by pushing the flap.

To open, turn the cap slowly to the left.



The fuel filler cap can be retained in the bracket on the fuel filler flap.

To close, turn the fuel filler cap to the right until it clicks three times.

Make sure that the cap is fully installed. The diagnostic system can determine if the fuel cap has been left off or is improperly installed. If the fuel cap has been left off or is improperly installed, a warning message is shown on the Driver Information Center.

Caution

Wipe off any overflowing fuel immediately.

Fuel filler cap

Only a genuine fuel filler cap provides full functionality.

Towing

General information

Entrust retrofitting of towing equipment to a workshop. It may be necessary to make changes that affect the cooling system, heat shields or other equipment. Only use towing equipment that has been approved for your vehicle.

Fitting of towing equipment could cover the opening of the towing eye. If this is the case use the coupling ball bar for towing.

Driving characteristics and towing tips

Before attaching a trailer, lubricate the coupling ball. However, do not do so if a stabiliser, which acts on the coupling ball, is being used to reduce snaking movements.

For trailers with low driving stability and trailers with a permitted gross vehicle weight of more than 3086 lbs

the use of a stabiliser is strongly recommended when driving above 50 mph.

If the trailer starts snaking, drive more slowly, do not attempt to correct the steering and brake sharply if necessary.

When driving downhill, drive in the same gear as if driving uphill and drive at a similar speed.

Adjust tyre pressure to the value specified for full load.

Trailer towing

Trailer loads

The permissible trailer loads are vehicle and engine-dependent maximum values which must not be exceeded. The actual trailer load is the difference between the actual gross weight of the trailer and the actual coupling socket load with the trailer coupled.

The permissible trailer loads are specified in the vehicle documents. In general, they are valid for gradients up to max. 12 %.

The permitted trailer load applies up to the specified incline and up to an altitude of 3300 ft above sea level. Since engine power decreases as altitude increases due to the air becoming thinner, therefore reducing climbing ability, the permissible gross train weight also decreases by 10 % for every 3300 ft of additional altitude. The gross train weight does not have to be reduced when driving on roads with slight inclines (less than 8 %, e.g. motorways).

The permissible gross train weight must not be exceeded. This weight is specified on the identification plate
⇨ 200.

Vertical coupling load

The vertical coupling load is the load exerted by the trailer on the coupling ball. It can be varied by changing the weight distribution when loading the trailer.

The maximum permissible vertical coupling load (187 lbs) is specified on the towing equipment identification plate and in the vehicle documents. Always aim for the maximum load, especially in the case of heavy trailers. The vertical coupling load should never fall below 55 lbs.

Vehicle care

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General Information

Accessories and vehicle modifications

We recommend using Genuine Parts and Accessories and factory approved parts specific for your vehicle type. We cannot assess or guarantee reliability of other products - even if they have a regulatory or otherwise granted approval.

Do not make any modifications to the electrical system, e.g. changes of electronic control units (chip tuning).

Vehicle storage

Storage for a long period of time

If the vehicle is to be stored for several months:

- Wash and wax the vehicle.
- Have the wax in the engine compartment and underbody checked.
- Clean and preserve rubber seals.
- Change engine oil.

- Drain washer fluid reservoir.
- Check coolant antifreeze and corrosion protection.
- Adjust tyre pressure to the value specified for full load.
- Park vehicle in dry, well ventilated place. Engage first or reverse gear or set selector lever to **P**. Prevent the vehicle from rolling.
- Do not apply parking brake.
- Open bonnet, close all doors and lock the vehicle.
- Disconnect the clamp from the negative terminal of the vehicle battery. Beware that all systems are not functional, e.g. anti-theft alarm system.

Putting back into operation

When the vehicle is to be put back into operation:

- Connect the clamp to the negative terminal of the vehicle battery. Activate the electronics of the power windows.
- Check tyre pressure.
- Fill up the washer fluid reservoir.

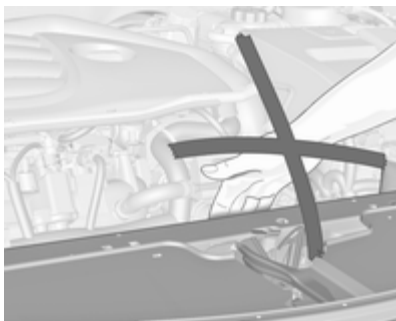
- Check the engine oil level.
- Check the coolant level.
- Fit the number plate if necessary.

End-of-life vehicle recovery

Information on end-of-life vehicle recovery centres and the recycling of end-of-life vehicles is available on our website. Only entrust this work to an authorised recycling centre.

Vehicle checks

Performing work



Warning

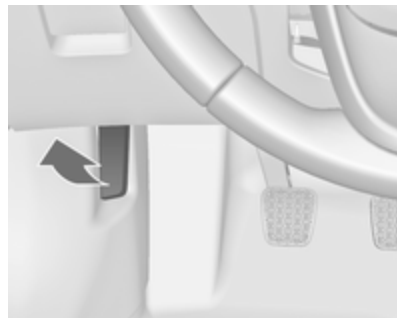
Only perform engine compartment checks when the ignition is off.
The cooling fan may start operating even if the ignition is off.

Danger

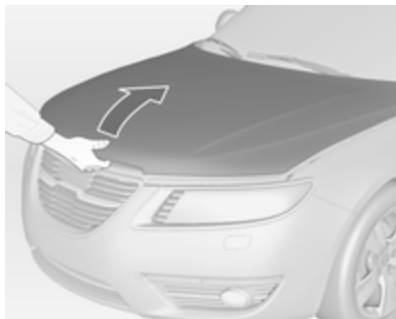
The ignition system and Xenon headlights use extremely high voltage. Do not touch.

Bonnet

Opening



Pull the release lever and return it to its original position.



Push the safety catch to the right and open the bonnet.

The bonnet is held open automatically.

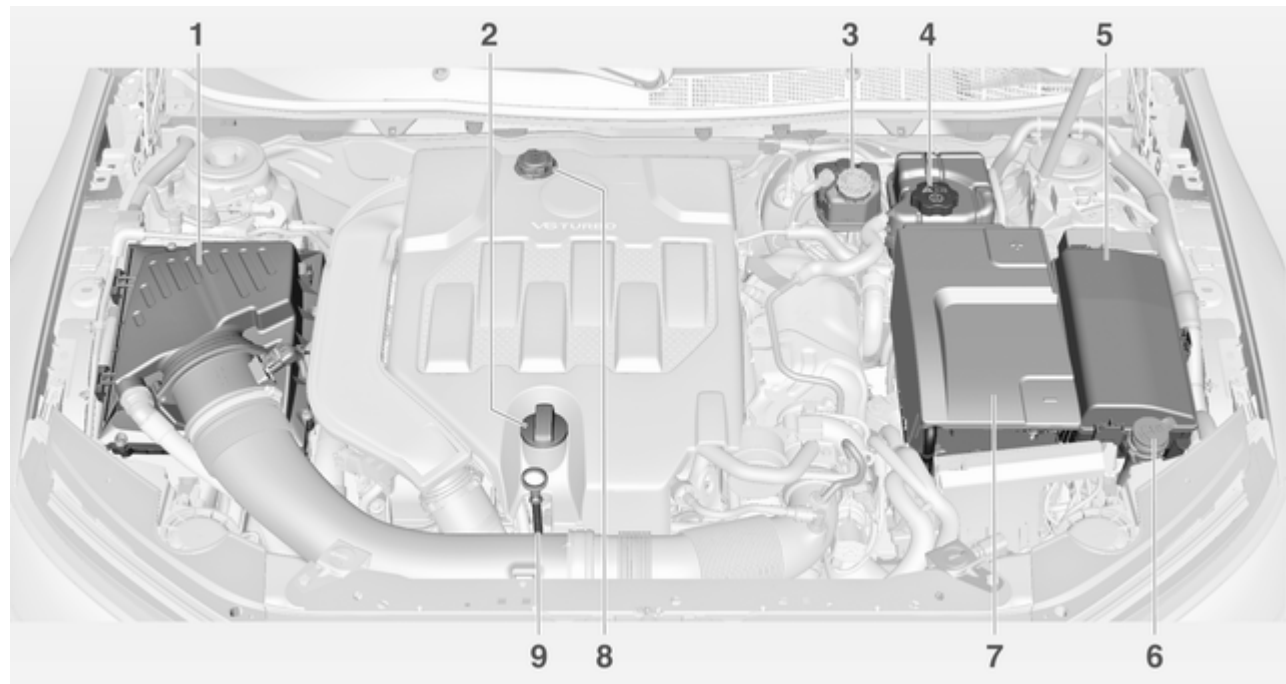
Air intake ⇨ 127.

Closing

Lower the bonnet and allow it to drop into the catch. Check that the bonnet is engaged.

Engine compartment overview

Petrol engine 2.8 Turbo



1. Engine air filter
2. Engine oil cap
3. Brake fluid container
4. Engine coolant container
5. Fuse box
6. Washer fluid container
7. Battery
8. Power steering fluid container
9. Dipstick for engine oil level

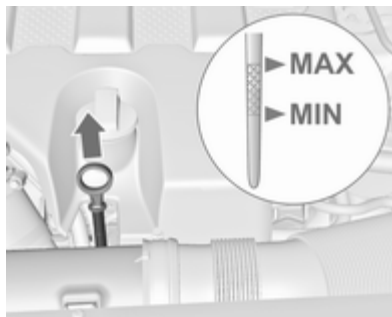
Engine oil

Engine oil level is checked automatically, Vehicle messages ↗ 93. However check the engine oil manually on a regular basis to prevent damage to the engine.

Check with the vehicle on a level surface. The engine must be at operating temperature and switched off for at least 5 minutes.

Pull out the dipstick, wipe it clean, insert it to the stop on the handle, pull out and read the engine oil level.

Insert dipstick to the stop on the handle and make half a turn.



When the engine oil level has dropped to the **MIN** mark, top up engine oil.



We recommend the use of the same grade of engine oil that was used at last change.

The engine oil level must not exceed the **MAX** mark on the dipstick.

Caution

Overfilled engine oil must be drained or suctioned out.

Fit the cap on straight and tighten it.

Engine coolant

The coolant provides freeze protection down to approx. -18°F.

Caution

Only use approved antifreeze.

Coolant level

Caution

Too low a coolant level can cause engine damage.

If the cooling system is cold, the coolant level should be above the filling line mark. Top up if the level is low.



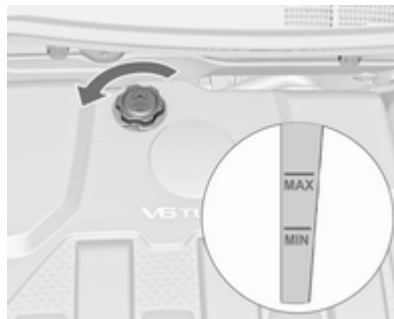
The filling line mark is inside the filler opening. To check open the cap.

⚠ Warning

Allow the engine to cool before opening the cap. Carefully open the cap, relieving the pressure slowly.

To top up use a 1:1 mixture of released coolant concentrate mixed with clean tap water. If no coolant concentrate is available, use clean tap water. Install the cap tightly. Have the coolant concentration checked and have the cause of the coolant loss remedied by a workshop.

Power steering fluid



Open the cap and remove it. Wipe the dipstick clean and insert the dipstick in the container. Open the cap again, remove it and read the power steering fluid level.

The power steering fluid level must be between the **MIN** and the **MAX** marks.

If the fluid level is too low, seek the assistance of a workshop.

Power steering fluid ⇨ 198.

Washer fluid



Fill with clean water mixed with a suitable quantity of windscreen washer fluid which contains antifreeze. For the correct mixing ratio refer to the washer fluid container.

Low washer fluid is indicated by a warning message in the Driver Information Center.

Caution

Only washer fluid with a sufficient antifreeze concentration provides protection at low temperatures or a sudden drop in temperature.

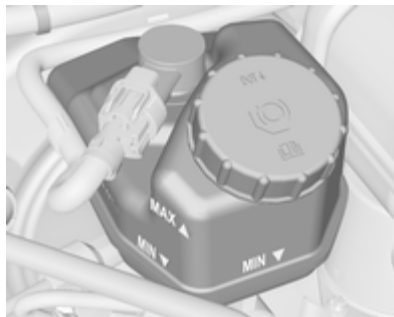
Brakes

Once new brake linings are installed, do not brake unnecessarily hard for the first few journeys.

Brake fluid

⚠ Warning

Brake fluid is poisonous and corrosive. Avoid contact with eyes, skin, fabrics and painted surfaces.



The brake fluid level must be between the **MIN** and the **MAX** marks.

When topping up, ensure maximum cleanliness as contamination of the brake fluid can lead to brake system malfunctions. Have the cause of the loss of brake fluid remedied by a workshop.

Only use high-performance brake fluid approved for the vehicle, Brake fluid ⇨ 198.

Battery

The vehicle battery is maintenance-free provided that the driving profile allows sufficient charging of the battery. Short-distance-driving and frequent engine starts can discharge the battery. Avoid the use of unnecessary electrical consumers.



Batteries do not belong in household waste. They must be disposed of at an appropriate recycling collection point.

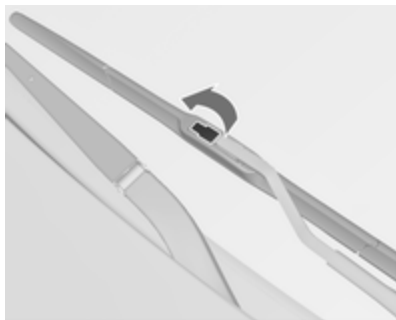
Laying up the vehicle for more than 4 weeks can lead to battery discharge. Disconnect the clamp from the negative terminal of the vehicle battery.

Ensure the ignition is switched off before connecting or disconnecting the vehicle battery.

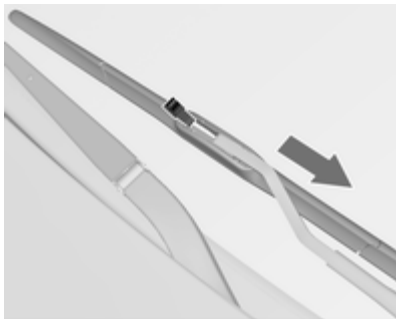
The anti-theft alarm siren must be deactivated as follows: Switch the ignition on then off, disconnect the vehicle's battery within 15 seconds. Battery discharge protection ⇨ 117.

Wiper blade replacement

Wiper blades on the windscreen



Lift the wiper arm, open the retaining clip.



Disengage the wiper blade and remove.

Check and clean all wiper blades regularly. We recommend washer fluid for cleaning. If poor wiper performance is experienced, clean the windscreen with washer fluid. This is particularly important if the car has been through an automatic car wash, as these sometimes leave a wax coating on the windscreen. If wiper performance is still unsatisfactory, fit new blades.

Bulb replacement

Switch off the ignition and switch off the relevant switch or close the doors.

Only hold a new bulb at the base! Do not touch the bulb glass with bare hands.

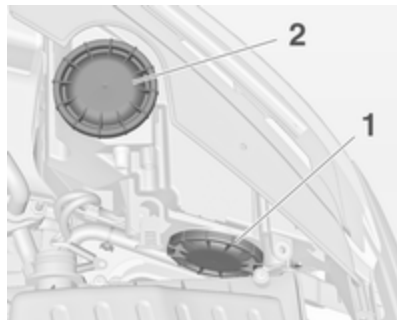
Use only the same bulb type for replacement.

Replace headlight bulbs from within the engine compartment.

Caution

Only on halogen headlight systems the bulbs can be replaced.

Halogen headlights



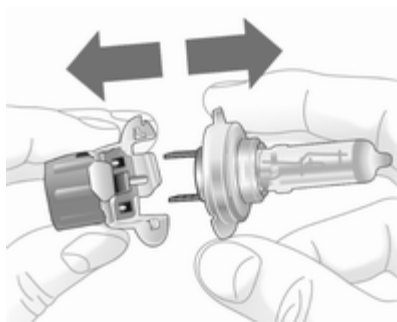
Headlights have separate systems for high beam 2 (inner bulbs) and low beam 1 (outer bulbs).

Low beam

1. Rotate cap 1 anti-clockwise and remove.

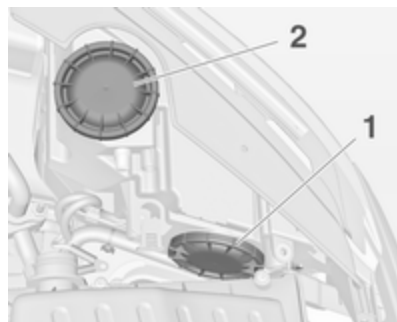


2. Rotate bulb holder anti-clockwise to disengage. Withdraw the bulb holder from the reflector.

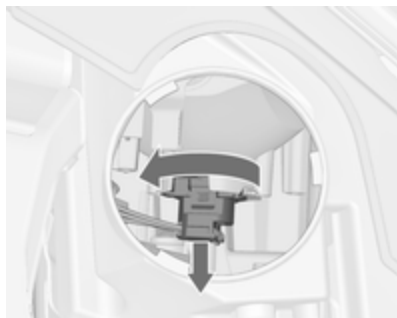


3. Detach bulb from bulb holder and renew the bulb.
4. Insert the bulb holder, engaging the two lugs into the reflector.
5. Rotate bulb carrier clockwise as far as it will go.
6. Fit cap and rotate clockwise.

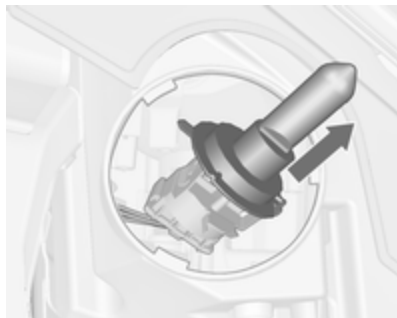
High beam



1. Rotate cap 2 anti-clockwise and remove.



2. Rotate bulb holder anti-clockwise to disengage. Withdraw the bulb holder from the reflector.

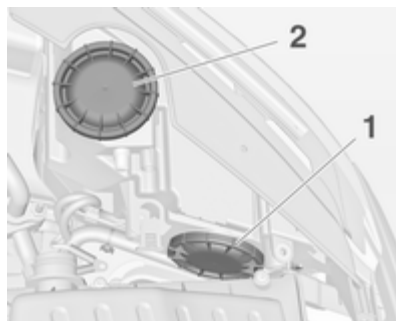


3. Detach bulb from bulb holder and renew the bulb.
4. Insert the bulb holder, engaging the two lugs into the reflector.
5. Rotate bulb carrier clockwise as far as it will go.
6. Fit cap and rotate clockwise.

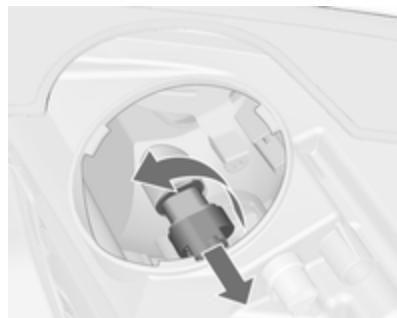
Front turn signal

Have bulbs replaced by a workshop.

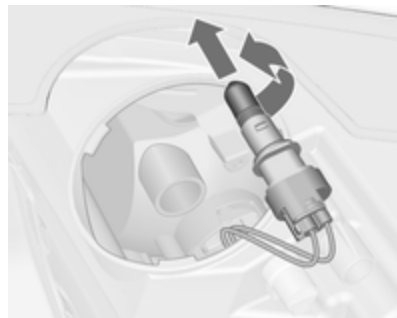
Parking lights



1. Rotate cap **2** anti-clockwise and remove.



2. Rotate bulb holder anti-clockwise to disengage. Withdraw the bulb holder from the reflector.



3. Push bulb into socket slightly, rotate anti-clockwise, remove and renew bulb.
4. Insert bulb holder in reflector, rotate clockwise to engage.
5. Fit cap and rotate clockwise.

Xenon headlights

Danger

Xenon headlights work under extremely high electrical voltage. Do not touch. Have bulbs replaced by a workshop.

Fog lights

Front fog lights

Have bulbs replaced by a workshop.

Tail lights

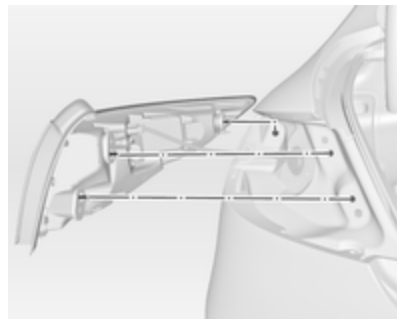
Saloon



1. Release cover and remove.



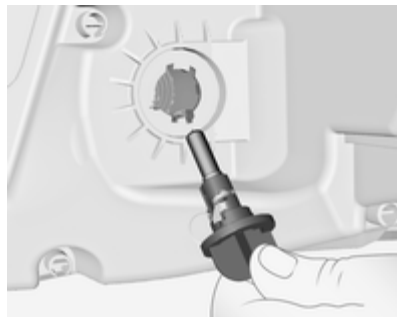
2. Unscrew three plastic securing nuts from the inside by hand.



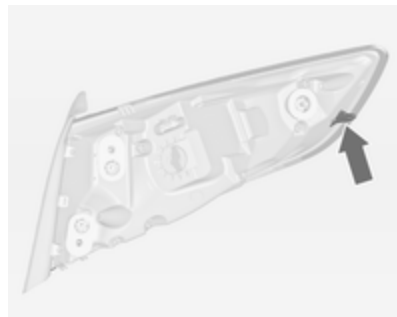
3. Remove tail light assembly. Take care that the cable duct remains in position.
Detach wiring plug from tail light housing.



4. Only turn signal light 1 can be changed, all other lights are non exchangeable LEDs.
- Rotate bulb holder anti-clockwise to disengage. Withdraw the bulb holder from the housing.



5. Push bulb into socket slightly, rotate anti-clockwise, remove and renew bulb.
6. Insert bulb holder into the tail light assembly, rotate clockwise to engage. Connect wiring plug.



7. Install tail light assembly in body. Note that the assembly engages in the body correctly. Tighten securing nuts. Close cover and engage.
8. Switch on ignition, operate and check all lights.

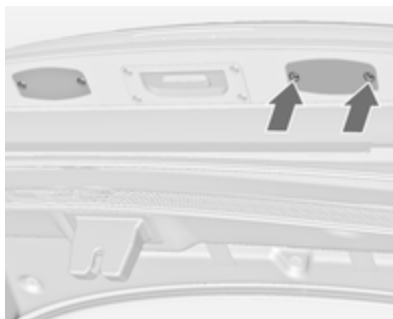
Side turn signal lights

There are side turn signal lights in the housing of the exterior mirrors. These lights are non exchangeable LEDs. Consult a workshop in the case of a defect.

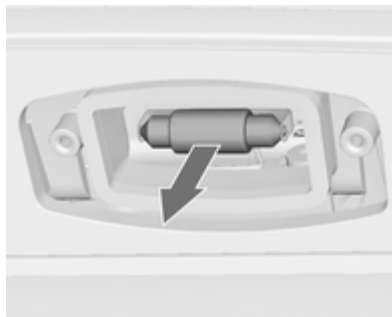
Puddle lights in exterior mirrors

Have the bulbs replaced by a workshop.

Number plate light



1. Turn out both screws.



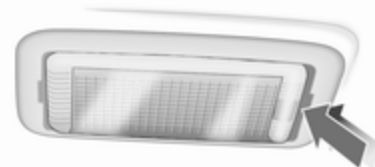
2. Press bulb slightly towards spring clip and remove.
3. Insert new bulb.
4. Install lamp.

Interior lights

Courtesy light, reading lights

Have bulbs replaced by a workshop.

Load compartment light



1. Prise the lamp out with a screwdriver.



2. Press bulb slightly towards spring clip and remove.
3. Insert new bulb.
4. Install lamp.

Instrument panel illumination

Have bulbs replaced by a workshop.

Electrical system

Fuses

Data on the replacement fuse must match the data on the defective fuse.

There are three fuse boxes in the vehicle:

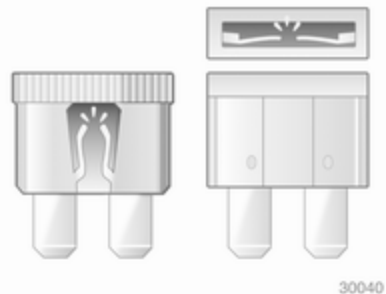
- in the front left of the engine compartment,
- in the interior behind the storage compartment, or, in right-hand drive vehicles, behind the glovebox,
- behind a cover on the left side of the load compartment.

Before replacing a fuse, turn off the respective switch and the ignition.

A blown fuse can be recognized by its melted wire. Do not replace the fuse until the cause of the fault has been remedied.

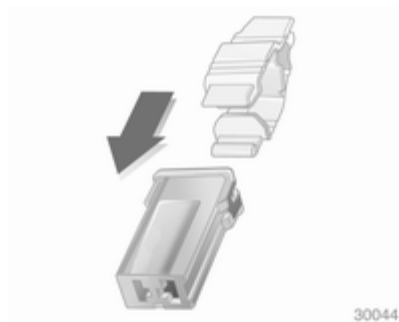
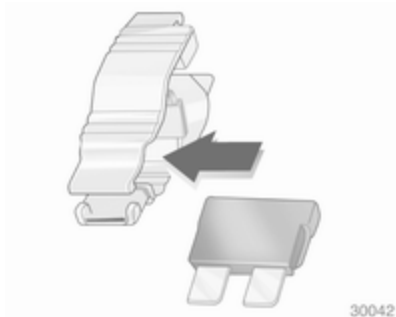
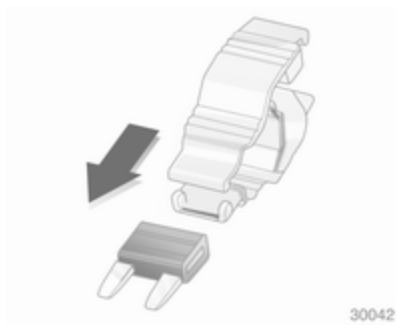
Some functions are protected by several fuses.

Fuses may also be inserted without existence of a function.



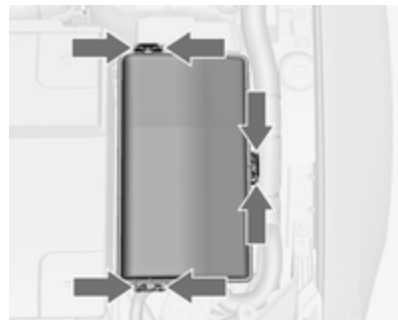
Fuse extractor

A fuse extractor may be located in the fuse box in the engine compartment.



Place the fuse extractor on the various types of fuse from the top or side, and withdraw fuse.

Engine compartment fuse box



The fuse box is in the front left of the engine compartment.

Disengage the cover, lift it upwards and remove.



No. Circuit

- 1 Transmission control module
- 2 Engine control module
- 3 –
- 4 –
- 5 Ignition, Transmission control module, Engine control module
- 6 Windscreen wiper
- 7 –
- 8 Fuel injection, ignition system
- 9 Fuel injection, ignition system
- 10 Engine control module
- 11 Lambda probe
- 12 Starter
- 13 Sensor throttle heating
- 14 Lighting
- 15 –

No. Circuit

- 16 Vacuum pump, Compass module
- 17 Ignition, Airbag
- 18 Adaptive forward lighting
- 19 Adaptive forward lighting
- 20 Ignition
- 21 Rear power windows
- 22 ABS
- 23 Variable effort steering
- 24 Front power windows
- 25 Power outlets
- 26 ABS
- 27 Electrical parking brake
- 28 Heated rear window
- 29 Left power seat
- 30 Right power seat
- 31 Air conditioning system

No. Circuit

- 32 Body control module
- 33 Heated front seats
- 34 Sunroof
- 35 Infotainment system
- 36 –
- 37 Right high beam
- 38 Left high beam
- 39 –
- 40 After boil pump
- 41 Vacuum pump
- 42 Radiator fan
- 43 –
- 44 Headlamp washer system
- 45 Radiator fan
- 46 Terminal 87, main relay
- 47 Lambda probe
- 48 Fog lights

No. Circuit

- 49 Right low beam
- 50 Left low beam
- 51 Horn
- 52 Ignition
- 53 Ignition, ventilated front seats
- 54 Ignition
- 55 Power windows, mirror folding
- 56 Windscreen washer
- 57 Ignition
- 58 –
- 59 –
- 60 Mirror heating
- 61 Mirror heating
- 62 Canister Vent Solenoid
- 63 Rear window sensor
- 64 Adaptive forward lighting
- 65 Horn

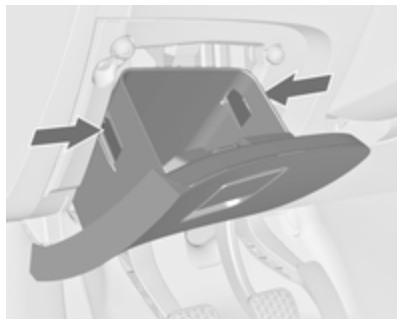
No. Circuit

- 66 –
- 67 Fuel system control module
- 68 –
- 69 Battery sensor
- 70 Rain sensor
- 71 Body electronic supply

After changing of defective fuses close the fuse box cover and let it engage by pressing.

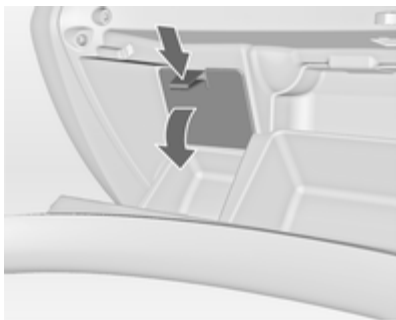
If the fuse box cover is not closed correctly, malfunction may occur.

Instrument panel fuse box



The fuse box is behind the storage compartment in the instrument panel.

Open compartment, compress the locking tabs, fold compartment down and remove.



In right-hand drive vehicles, the fuse box is located behind a cover in the glovebox. Open the glovebox and remove the cover.



No. Circuit

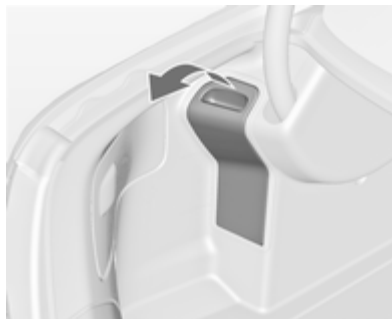
- | No. | Circuit |
|-----|-----------------------------------|
| 1 | Infotainment system, Info display |
| 2 | Body control unit |
| 3 | Body control unit |
| 4 | Infotainment system, Info display |
| 5 | Infotainment system, Info display |
| 6 | – |
| 7 | Power outlet |

No. Circuit

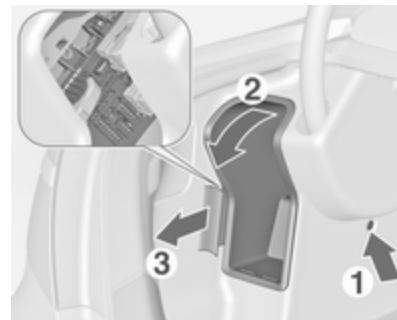
- 8 Body control unit
- 9 Body control unit
- 10 Body control unit
- 11 Interior fan
- 12 –
- 13 –
- 14 Diagnostic connector
- 15 Airbag
- 16 Central locking system
- 17 Air conditioning system
- 18 Transportation fuse
- 19 Memory
- 20 –
- 21 Instrument
- 22 Ignition
- 23 Body control unit
- 24 Body control unit

No. Circuit

- 25 –
- 26 Power outlet load compartment

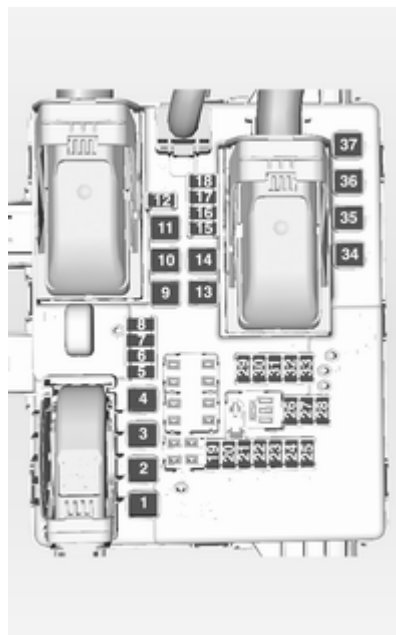
Load compartment fuse box

The fuse box is on the left side of the load compartment behind the storage box. Remove the cover of the storage box.



To remove the storage box,

- pull out the center part of the rivet and then pull out the complete rivet (1)
- pull out the storage box while tilting downwards (2)
- to get full access to the fuse box, fold out the pre-cut flap (3).



No. Circuit

- 1 Central locking system
- 2 Air conditioning system
- 3 –
- 4 –
- 5 –
- 6 –
- 7 –
- 8 –
- 9 –
- 10 Coolant heater
- 11 Power seats
- 12 Memory seat
- 13 –
- 14 –
- 15 –
- 16 –
- 17 Seat heating

No. Circuit

- 18 –
- 19 –
- 20 Cooling fan driver seat
- 21 Ignition
- 22 –
- 23 Anti-theft alarm system
- 24 Parking light left
- 25 Parking light right
- 26 Lighting
- 27 Lighting
- 28 –
- 29 Transportation fuse
- 30 Transportation fuse
- 31 Suspension system, High beam assist, Cruise control, Traffic sign assistant, Lane departure warning
- 32 Side obstacle detector

No. Circuit

- 33** All-wheel drive
- 34** Sunroof
- 35** Central locking system
- 36** Power seats
- 37** –

Vehicle tools**Tools****Vehicles with tyre repair kit**

The tools and tyre repair kit are in a storage compartment below the floor cover in the load compartment.

Vehicles with spare wheel

The jack and the tools are in a stowage compartment in the load compartment below the spare wheel. Spare wheel ⇨ 188.

Wheels and tyres

Tyre condition, wheel condition

Drive over edges slowly and at right angles if possible. Driving over sharp edges can cause tyre and wheel damage. Do not trap tyres on the kerb when parking.

Regularly check the wheels for damage. Seek the assistance of a workshop in the event of damage or unusual wear.

Tyres

If snow chains will be used, only use tyre sizes 225/50 R 17 or 235/45 R 18.

Winter tyres

Winter tyres improve driving safety at temperatures below 45° F and should therefore be fitted on all wheels.

Tyres of size 225/55 R 17, 225/50 R 17, 235/45 R 18, 245/40 R 18 and 245/45 R 18 can be used as winter tyres.

Tyres of size 245/40 R 19 must not be used as winter tyres.

In accordance with country-specific regulations, affix the speed sticker in the driver's field of view.

Tyre chains ⇨ 183.

Tyre designations

E.g. **225/55 R 17 95 W**

225 = Tyre width, mm

55 = Cross-section ratio (tyre height to tyre width), %

R = Belt type: Radial

17 = Wheel diameter, inches

95 = Load index e.g. 95 is equivalent to 690 kg

W = Speed code letter

Speed code letter:

Q = up to 100 mph

S = up to 112 mph

T = up to 118 mph

H = up to 130 mph

V = up to 150 mph

W = up to 168 mph

Tyre pressure

Check the pressure of cold tyres at least every 14 days and before any long journey. Do not forget the spare wheel. This also applies to vehicles with tyre pressure monitoring system.



Tyre pressure on the label on the front left door frame.

The tyre pressure data refers to cold tyres. It applies to summer and winter tyres.

Always inflate the spare tyre to the pressure specified for full load.

The ECO tyre pressure serves to achieve the smallest amount of fuel consumption possible.

Incorrect tyre pressures will impair safety, vehicle handling, comfort and fuel economy and will increase tyre wear.

Warning

If the pressure is too low, this can result in considerable tyre warm-up and internal damage, leading to tread separation and even to tyre blow-out at high speeds.

If the tyre pressure shall be reduced or increased on a vehicle with tyre pressure monitoring system, switch off ignition.

Tyre pressure monitoring system

The tyre pressure monitor system (TPMS) uses radio and sensor technology to check tyre pressure levels. The TPMS sensors monitor

the air pressure in your vehicle's tyres and transmit tyre pressure readings to a receiver located in the vehicle.

Each tyre, including the spare (if provided), should be checked monthly when cold and inflated to the inflation pressure recommended by the vehicle manufacturer on the vehicle placard or tyre inflation pressure label (If your vehicle has tyres of a different size than the size indicated on the vehicle placard or tyre inflation pressure label, you should determine the proper tyre inflation pressure for those tyres).

As an added safety feature, your vehicle has been equipped with a tyre pressure monitoring system (TPMS) that illuminates a low tyre pressure telltale when one or more of your tyres is significantly under-inflated.

Accordingly, when the low tyre pressure telltale illuminates, you should stop and check your tyres as soon as possible, and inflate them to the proper pressure. Driving on a significantly under-inflated tyre causes the tyre to overheat and can

lead to tyre failure. Under-inflation also reduces fuel efficiency and tyre tread life, and may affect the vehicle's handling and stopping ability.

Please note that the TPMS is not a substitute for proper tyre maintenance, and it is the driver's responsibility to maintain correct tyre pressure, even if under-inflation has not reached the level to trigger illumination of the TPMS low tyre pressure telltale.

Your vehicle has also been equipped with a TPMS malfunction indicator to indicate when the system is not operating properly. The TPMS malfunction indicator is combined with the low tyre pressure telltale. When the system detects a malfunction, the telltale will flash for approximately one minute and then remain continuously illuminated. This sequence will continue upon subsequent vehicle start-ups as long as the malfunction exists ⇨ 83.

When the malfunction indicator is illuminated, the system may not be able to detect or signal low tyre

pressure as intended. TPMS malfunctions may occur for a variety of reasons, including the installation of replacement or alternate tyres or wheels on the vehicle that prevent the TPMS from functioning properly. Always check the TPMS malfunction telltale after replacing one or more tyres or wheels on your vehicle to ensure that the replacement or alternate tyres and wheels allow the TPMS to continue to function properly.

Tyre pressure monitor operation

This vehicle may have a tyre pressure monitor system (TPMS). The TPMS is designed to warn the driver when a low tyre pressure condition exists. TPMS sensors are mounted onto each tyre and wheel assembly, excluding the spare tyre and wheel assembly. The TPMS sensors monitor the air pressure in the vehicle's tyres and transmits the tyre pressure readings to a receiver located in the vehicle.↗ 83

When a low tyre pressure condition is detected, the TPMS illuminates the low tyre pressure warning light located on the instrument panel cluster.



At the same time a message to check the pressure in a specific tyre appears on the Driver Information Center (DIC) display. The low tyre pressure warning light and the DIC warning message come on at each ignition cycle until the tyres are inflated to the correct inflation pressure. Using the DIC, tyre pressure levels can be viewed by the driver.

The low tyre pressure warning light may come on in cool weather when the vehicle is first started, and then turn off as you start to drive. This could be an early indicator that the air pressure in the tyre(s) are getting low and need to be inflated to the proper pressure.

A tyre and loading Information label, attached to your vehicle, shows the size of your vehicle's original equipment tyres and the correct inflation pressure for your vehicle's tyres when they are cold.

Your vehicle's TPMS can warn you about a low tyre pressure condition but it does not replace normal tyre maintenance.

Note

Liquid tyre sealants could damage the tyre pressure monitor system (TPMS) sensors. Sensor damage caused by using a tyre sealant is not covered by your warranty. Do not use liquid tyre sealants.

TPMS Malfunction Light and Message

The TPMS will not function properly if one or more of the TPMS sensors are missing or inoperable. When the system detects a malfunction, the low tyre warning light flashes for about one minute and then stays on for the remainder of the ignition cycle. A DIC warning message is also displayed. The low tyre warning light and DIC warning message come on at each ignition cycle until the problem is corrected. Some of the conditions that can cause the malfunction light and DIC message to come on are:

- One of the road tyres has been replaced with the spare tyre. The spare tyre does not have a TPMS sensor. The TPMS malfunction light and DIC message should go off once you re-install the road tyre containing the TPMS sensor.
- The TPMS sensor matching process was started but not completed or not completed successfully after rotating the vehicle's tyres. The DIC message

and TPMS malfunction light should go off once the TPMS sensor matching process is performed successfully. See "TPMS Sensor Matching Process" later in this section.

- One or more TPMS sensors are missing or damaged. The DIC message and the TPMS malfunction light should go off when the TPMS sensors are installed and the sensor matching process is performed successfully. See your dealer/ retailer for service.

- Replacement tyres or wheels do not match your vehicle's original equipment tyres or wheels. Tyres and wheels other than those recommended for your vehicle could prevent the TPMS from functioning properly.
- Operating electronic devices or being near facilities using radio wave frequencies similar to the TPMS could cause the TPMS sensors to malfunction.

If the TPMS is not functioning it cannot detect or signal a low tyre condition. Seek the assistance of a workshop if the TPMS malfunction light and DIC message comes on and stays on.

TPMS sensor matching process

Each TPMS sensor has a unique identification code. Any time you rotate your vehicle's tyres or replace one or more of the TPMS sensors, the identification codes will need to be matched to the new tyre/wheel position. The sensors are matched to the tyre/wheel positions in the following order: driver side front tyre,

passenger side front tyre, passenger side rear tyre, and driver side rear tyre using a TPMS diagnostic tool. Seek the assistance of a workshop.

The TPMS sensors can also be matched to each tyre/wheel position by increasing or decreasing the tyre's air pressure. If increasing the tyre's air pressure, do not exceed the maximum inflation pressure indicated on the tyre's sidewall.

To decrease air-pressure out of a tyre you can use the pointed end of the valve cap, a pencil-style air pressure gage, or a key.

You have two minutes to match the first tyre/wheel position, and five minutes overall to match all four tyre/wheel positions. If it takes longer than two minutes, to match the first tyre and wheel, or more than five minutes to match all four tyre and wheel positions the matching process stops and you need to start over.



The TPMS sensor matching process is outlined below:

1. Set the parking brake.
2. Turn the ignition on.
3. Press the **MENU** button to select the **Vehicle Information Menu**.
4. Turn the adjuster wheel to select the tyre pressure monitoring system.
5. Press the **SET/CLR** button to begin the sensor matching process.

A message asking if you are sure you want to begin this process should appear.

6. Press the **SET/CLR** button again to confirm the selection.

The horn sounds twice to signal the receiver is in relearn mode and **Tyre Learning Active** appears in the Driver Information Center.

7. Start with the driver side front tyre.
8. Remove the valve cap from the valve cap stem. Activate the TPMS sensor by increasing or decreasing the tyre's air pressure for five seconds, or until a horn chirp sounds. The horn chirp, which may take up to 30 seconds to sound, confirms that the sensor identification code has been matched to this tyre and wheel position.
9. Proceed to the passenger side front tyre, and repeat the procedure in step 8.
10. Proceed to the passenger side rear tyre, and repeat the procedure in step 8.
11. Proceed to the driver side rear tyre, and repeat the procedure in step 8. The horn sounds two times

to indicate the sensor identification code has been matched to the driver side rear tyre, and the TPMS sensor matching process is no longer active. **Tyre Learning Active** in the Driver Information Center goes out.

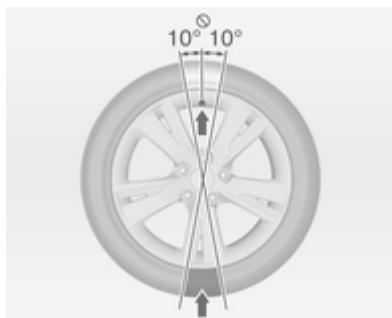
12. Turn the ignition off.
13. Set all four tyres to the recommended air pressure level as indicated on the tyre and loading Information label.
14. Put the valve caps back on the valve stems.

Temperature compensation

Cold tyres decrease the tyre pressure, warm tyres increase the tyre pressure. The tyre pressure monitoring system considers this effect for the warning messages.

The tyre pressure value displayed in the Driver Information Center shows the actual tyre pressure. Therefore it is important to check tyre pressure with cold tyres.

Removing a tyre



Remove the tyre with a tyre machine. It is important to follow the instructions for the tyre machine as well.

- Do not fit the tyre tool in an area $\pm 10^\circ$ from the valve.
- Start removing opposite the valve.
- Remove the rear side first.

Fitting a tyre



Fit the tyre with a tyre machine. It is important to follow the instructions for the tyre machine as well.

- Start to fit about 20° after the valve.
- Finish fitting before an area 20° from the valve.
- Do not inflate the tyre to a pressure higher than 102 psi.

Tread depth

Check tread depth at regular intervals.

Tyres should be replaced for safety reasons at a tread depth of 0.08-0.1 inches (0.16 inches for winter tyres).



The legally permissible minimum tread depth (0.06 inches) has been reached when the tread has worn down as far as one of the tread wear indicators (TWI). Their position is indicated by markings on the sidewall.

If there is more wear at the front than the rear, swap round front wheels and rear wheels. Ensure that the direction of rotation of the wheels is the same as before.

Tyres age, even if they are not used. We recommend tyre replacement every 6 years.

Changing tyre and wheel size

If tyres of a different size than those fitted at the factory are used, it may be necessary to reprogramme the speedometer as well as the nominal tyre pressure and make other vehicle modifications.

After converting to a different tyre size, have the label with tyre pressures replaced.

Warning

Use of unsuitable tyres or wheels may lead to accidents and will invalidate the vehicle type approval.

Wheel covers

Wheel covers and tyres that are factory approved for the respective vehicle and comply with all of the relevant wheel and tyre combination requirements must be used.

If the wheel covers and tyres used are not factory approved, the tyres must not have a rim protection ridge.

Wheel covers must not impair brake cooling.

Warning

Use of unsuitable tyres or wheel covers could lead to sudden pressure loss and thereby accidents.

Tyre chains



Tyre chains are only permitted on the front wheels together with tyre size 225/50 R 17 and 235/45 R 18.

Always use fine mesh chains that add no more than 0.4 inches to the tyre tread and the inboard sides (including chain lock).

⚠ Warning

Damage may lead to tyre blowout.

The use of tyre chains is not permitted on the temporary spare wheel.

Tyre repair kit

Minor damage to the tyre tread or sidewall can be repaired with the tyre repair kit.

Do not remove foreign bodies from the tyres.

Tyre damage exceeding 0.16 inches or that is at tyre's side wall near the rim cannot be repaired with the tyre repair kit.

⚠ Warning

Do not drive faster than 50 mph.

Do not use for a lengthy period.

Steering and handling may be affected.

If you have a flat tyre:

Apply the parking brake and engage first gear, reverse gear or **P**.



The tyre repair kit is in a compartment under the floor cover in the load compartment.

1. Take the tyre repair kit from the compartment.
2. Remove the compressor.



30057

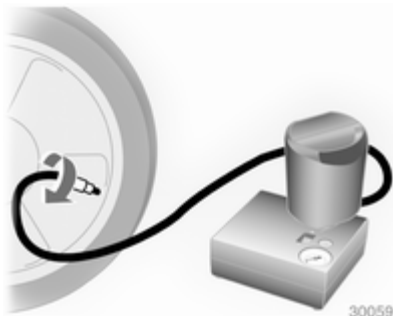
3. Remove the electrical connection cable and air hose from the stowage compartments on the underside of the compressor.



30058

4. Screw the compressor air hose to the connection on the sealant bottle.
5. Fit the sealant bottle into the retainer on the compressor.

Set the compressor near the tyre in such a way that the sealant bottle is upright.

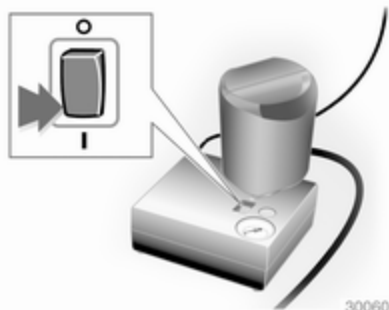


30059

6. Unscrew valve cap from defective tyre.
7. Screw the filler hose to the tyre valve.
8. The switch on the compressor must be set to O.

9. Connect the compressor plug to the power outlet socket.

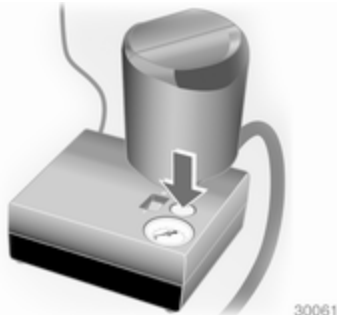
To avoid discharging the battery, we recommend running the engine.



30060

10. Set the rocker switch on the compressor to I. The tyre is filled with sealant.
11. The compressor pressure gauge briefly indicates up to 87 psi whilst the sealant bottle is emptying (approx. 30 seconds). Then the pressure starts to drop.
12. All of the sealant is pumped into the tyre. Then the tyre is inflated.

13. The prescribed tyre pressure should be obtained within 10 minutes. When the correct pressure is obtained, switch off the compressor.

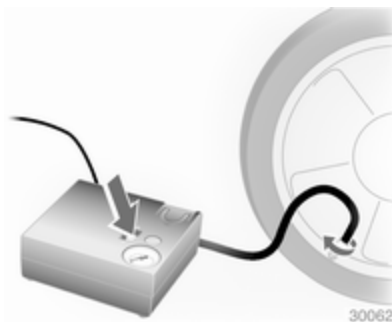


If the prescribed tyre pressure is not obtained within 10 minutes, remove the tyre repair kit. Move the vehicle one tyre rotation. Reattach the tyre repair kit and continue the filling procedure for 10 minutes. If the prescribed tyre pressure is still not obtained, the tyre is too badly damaged. Seek the assistance of a workshop.

Drain excess tyre pressure with the button over the pressure indicator.

Do not run the compressor longer than 10 minutes.

14. Detach the tyre repair kit. Push catch on bracket to remove sealant bottle from bracket. Screw tyre inflation hose to the free connection of sealant bottle. This prevents sealant from escaping. Stow tyre repair kit in load compartment.
15. Remove any excess sealant using a cloth.
16. Take the label indicating maximum permitted speed from the sealant bottle and affix in the driver's field of view.
17. Continue driving immediately so that sealant is evenly distributed in the tyre. After driving approx. 6 miles (but no more than 10 minutes), stop and check tyre pressure. Screw compressor air hose directly onto tyre valve and compressor when doing this.



If tyre pressure is more than 19 psi, set it to the correct value. Repeat the procedure until there is no more loss of pressure.

If the tyre pressure has fallen below 19 psi, the vehicle must not be used. Seek the assistance of a workshop.

18. Stow away tyre repair kit in load compartment.

Note

The driving comfort of the repaired tyre is severely affected, therefore have this tyre replaced. If unusual noise is heard or the compressor becomes hot, turn compressor off for at least 30 minutes. The built-in safety valve opens at a pressure of 102 psi. The sealant can only be stored for approximately 4 years, after which time its sealing capability is not longer guaranteed. Pay attention to storage information on sealant bottle. Replace the used sealant bottle. Dispose of the bottle as prescribed by applicable laws. The compressor and sealant can be used from approx. -22° F. The adapters supplied can be used to pump up other items e.g. footballs, air mattresses, inflatable dinghies etc.

Wheel changing

Some vehicles are equipped with a tyre repair kit instead of a spare wheel ⇨ 183.

Make the following preparations and observe the following information:

- Park the vehicle on a level, firm and non-skid surface. The front wheels must be in the straight-ahead position.
- Apply the parking brake and engage first gear, reverse gear or P.
- Remove the spare wheel ⇨ 188.
- Never change more than one wheel at once.
- Use the jack only to change wheels in case of puncture, not for seasonal winter or summer tyre change.
- If the ground on which the vehicle is standing is soft, a solid board (max. 0.4 inches thick) should be placed under the jack.
- No people or animals may be in the vehicle when it is jacked-up.
- Never crawl under a jacked-up vehicle.
- Do not start the vehicle when it is raised on the jack.

- Clean wheel nuts and thread with a clean cloth before mounting the wheel.

Warning

Do not grease wheel bolt, wheel nut and wheel nut cone.



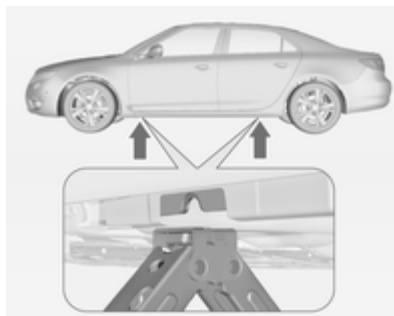
1. Disengage wheel nut caps with a screwdriver and remove. Pull off the wheel cover with the hook. Vehicle tools ⇨ 175.

Alloy wheels: Disengage wheel nut caps with a screwdriver and remove. To protect the wheel,

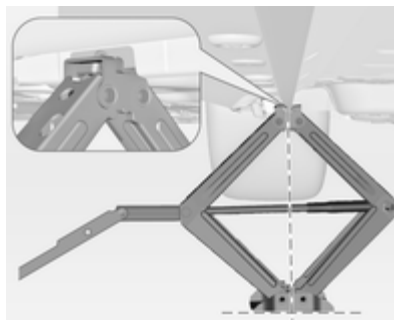
place a soft cloth between the screwdriver and the alloy wheel.



2. Fold out the wheel wrench and install ensuring that it locates securely and loosen each wheel nut by half a turn.



3. Ensure the jack is positioned correctly with the vehicle jacking points.



4. Set the jack to the necessary height before positioning it directly below the jacking point in a manner that prevents it from slipping.



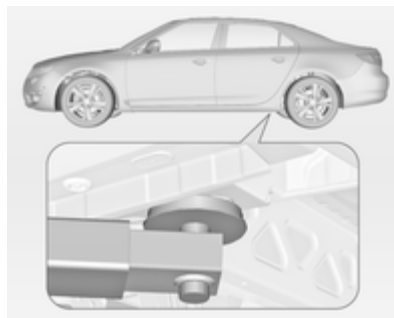
Attach jack handle and with the jack correctly aligned rotate handle until wheel is clear of the ground.

5. Unscrew the wheel nuts.
6. Change the wheel.
7. Screw on the wheel nuts.
8. Lower vehicle.

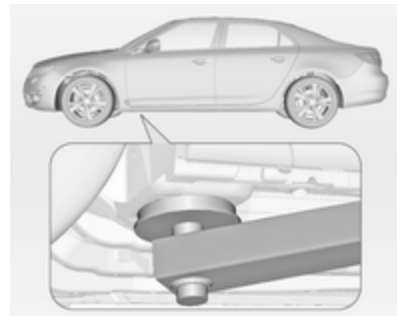
9. Install the wheel wrench ensuring that it locates securely and tighten each nut in a crosswise sequence. Tightening torque is 150 Nm.
10. Align the valve hole in the wheel cover with the tyre valve before installing.
Install wheel nut caps.
11. Stow the replaced wheel ↗ 183 and the vehicle tools ↗ 175.
12. Check the tyre pressure of the installed tyre and also the wheel nut torque as soon as possible.

Have the defective tyre renewed or repaired.

Jacking position for lifting platform



Rear arm position of the lifting platform at the underbody.



Front arm position of the lifting platform at the underbody.

Spare wheel

Some vehicles are equipped with a tyre repair kit instead of a spare wheel.

The spare wheel can be classified as a temporary spare wheel depending on the size compared to the other mounted wheels and country regulations.

The spare wheel has a steel rim.

Use of a spare wheel that is smaller than the other wheels or together with winter tyres could affect driveability. Have the defective tyre replaced as soon as possible.



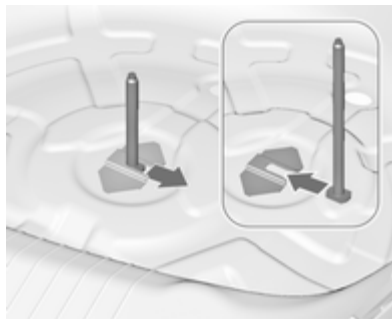
The spare wheel is located in the load compartment beneath the floor covering. It is secured in the recess with a wing nut.

Storing the replaced wheel in the load compartment

The spare wheel well is not designed for all permitted tyre sizes. If a wheel wider than the spare must be stowed

in the spare wheel well, the thread bolt for mounting the wheel must be replaced by a longer one.

- Remove temporary spare wheel after turning the wing nut anticlockwise.
- Remove tool box and wheel nut wrench bag from spare wheel well.
- Move the bolt sideways out of the adapter on the floor.



- Insert the longer thread bolt from the tool box into the adapter on the floor. ⇨ 175

- Put the wheel nut wrench bag and tool box back in the spare wheel well.
- Store the wheel with the outside upturned and secure by turning the wing nut clockwise.

The floor cover can be placed on the projecting wheel.

To fit the spare wheel in the well after renewing the defective wheel use the short thread bolt again.

⚠ Warning

Storing a jack, a tire or other equipment in the load compartment could cause injury if they are not fixed. In a sudden stop or a collision, loose equipment could strike someone.

Store wheel, jack and tools always in the original storage location and secure them by fixing.

Place the flat tire always in the spare wheel well and secure it by turning the wing nut clockwise.

Temporary spare wheel

Use of the temporary spare wheel could affect driveability. Have the defective tyre renewed or repaired as soon as possible.

Only mount one temporary spare wheel. Do not drive faster than 50 mph. Take curves slowly. Do not use for a long period of time.

Tyre chains ⇨ 183.

Directional tyres

Fit directional tyres such that they roll in the direction of travel. The rolling direction is indicated by a symbol (e.g. an arrow) on the sidewall.

The following applies to tyres fitted opposing the rolling direction:

- Driveability may be affected. Have the defective tyre renewed or repaired as soon as possible.
- Do not drive faster than 50 mph.
- Drive particularly carefully on wet and snow-covered road surfaces.

Jump starting

Do not start with quick charger.

A vehicle with a discharged battery can be started using jump leads and the battery of another vehicle.

Warning

Be extremely careful when starting with jump leads. Any deviation from the following instructions can lead to injuries or damage caused by battery explosion or damage to the electrical systems of both vehicles.

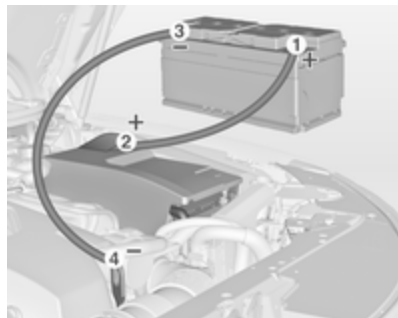
Warning

Avoid contact with eyes, skin, fabrics and painted surfaces. The fluid contains sulphuric acid which can cause injuries and damage in the event of direct contact.

- Never expose the battery to naked flames or sparks.

- A discharged battery can already freeze at a temperature of 32° F. Defrost the frozen battery before connecting jump leads.
- Wear eye protection and protective clothing when handling a battery.
- Use a booster battery with the same voltage (12 Volts). Its capacity (Ah) must not be much less than that of the discharged battery.
- Use jump leads with insulated terminals and a cross section of at least 0.6 inch².
- Do not disconnect the discharged battery from the vehicle.
- Switch off all unnecessary electrical consumers.
- Do not lean over the battery during jump starting.
- Do not allow the terminals of one lead to touch those of the other lead.

- The vehicles must not come into contact with each other during the jump starting process.
- Apply the parking brake, automatic transmission in **P**.



Lead connection order:

1. Connect the red lead to the positive terminal of the booster battery.
2. Connect the other end of the red lead to the positive terminal of the discharged battery.
3. Connect the black lead to the negative terminal of the booster battery.

4. Connect the other end of the black lead to a vehicle grounding point, such as the engine block or an engine mounting bolt. Connect as far away from the discharged battery as possible, however at least 2 ft.

Route the leads so that they cannot catch on rotating parts in the engine compartment.

To start the engine:

1. Start the engine of the vehicle providing the jump.
2. After 5 minutes, start the other engine. Start attempts should be made for no longer than 15 seconds at an interval of 1 minute.
3. Allow both engines to idle for approx. 3 minutes with the leads connected.
4. Switch on electrical consumers (e.g. headlights, heated rear window) of the vehicle receiving the jump start.
5. Reverse above sequence exactly when removing leads.

Towing

Towing the vehicle



Disengage cap at bottom and remove downwards.

The towing eye is stowed with the vehicle tools ⇨ 175.



Screw in the towing eye as far as it will go until it stops in a horizontal position.

Attach a tow rope – or better still a tow rod – to the towing eye.

The towing eye must only be used for towing and not for recovering the vehicle.

Switch on ignition to release steering wheel lock and to permit operation of brake lights, horn and windscreen wiper.

Transmission in neutral.

Caution

Drive slowly. Do not drive jerkily. Excessive tractive force can damage the vehicle.

When the engine is not running, considerably more force is needed to brake and steer.

To prevent the entry of exhaust gases from the towing vehicle, switch on the air recirculation and close the windows.

Vehicles with automatic transmission and All-wheel drive: The vehicle must be towed facing forwards. If the vehicle is towed with all four wheels on the ground, the maximum speed is 50 mph and for a maximum of 62 miles. If the front axle has been raised, the maximum speed is 30 mph. There is no distance limitation.

Seek the assistance of a workshop.

After towing, unscrew the towing eye.



Insert cap below, turn slightly clockwise and close cap.

Towing another vehicle



Disengage cap at bottom and remove downwards.

The towing eye is stowed with the vehicle tools ➔ 175.



Screw in the towing eye as far as it will go until it stops in a horizontal position.

The lashing eye at the rear underneath the vehicle must never be used as a towing eye.

Attach a tow rope – or better still a tow rod – to the towing eye.

The towing eye must only be used for towing and not for recovering a vehicle.

Caution

Drive slowly. Do not drive jerkily. Excessive tractive force can damage the vehicle.

After towing, unscrew the towing eye. Insert cap below and engage it.

Appearance care

Exterior care

Locks

The locks are lubricated at the factory using a high quality lock cylinder grease. Use de-icing agent only when absolutely necessary, as this has a degreasing effect and impairs lock function. After using de-icing agent, have the locks regreased by a workshop.

Washing

The paintwork of your vehicle is exposed to environmental influences. Wash and wax your vehicle regularly. When using automatic vehicle washes, select a programme that includes waxing.

Bird droppings, dead insects, resin, pollen and the like should be cleaned off immediately, as they contain aggressive constituents which can cause paint damage.

If using a vehicle wash, comply with the vehicle wash manufacturer's instructions. The windscreen wipers must be switched off. Remove antenna and external accessories such as roof racks etc.

If you wash your vehicle by hand, make sure that the insides of the wheel housings are also thoroughly rinsed out.

Clean edges and folds on opened doors and the bonnet as well as the areas they cover.

Have the door hinges of all doors greased by a workshop.

Do not clean the engine compartment with a steam-jet or high-pressure jet cleaner.

Thoroughly rinse and leather-off the vehicle. Rinse leather frequently. Use separate leathers for painted and glass surfaces: remnants of wax on the windows will impair vision.

Do not use hard objects to remove spots of tar. Use tar removal spray on painted surfaces.

Exterior lights

Headlights, rear lights and other light covers are made of plastic. Only use liquid detergent when cleaning the plastic lenses. Do not use mechanical cleaning, any abrasive or caustic agents, do not use an ice scraper, and do not clean them dry. Rinse off the detergent immediately, otherwise cracks may form in the plastic lenses.

Polishing and waxing

Wax the vehicle regularly (at the latest when water no longer beads). Otherwise, the paintwork will dry out.

Polishing is necessary only if the paint has become dull or if solid deposits have become attached to it.

Paintwork polish with silicone forms a protective film, making waxing unnecessary.

Plastic body parts must not be treated with wax or polishing agents.

Windows and windscreen wiper blades

Use a soft lint-free cloth or chamois leather together with window cleaner and insect remover.

When cleaning the rear window, make sure the heating element inside is not damaged.

For mechanical removal of ice, use a sharp-edged ice scraper. Press the scraper firmly against the glass so that no dirt can get under it and scratch the glass.

Clean smearing wiper blades with a soft cloth and window cleaner.

Sunroof

Never clean with solvents or abrasive agents, fuels, aggressive media (e.g. paint cleaner, acetone-containing solutions etc.), acidic or highly alkaline media or abrasive pads. Do not apply wax or polishing agents to the middle part of the sunroof.

Wheels and tyres

Do not use high-pressure jet cleaners.

Clean rims with a pH-neutral wheel cleaner.

Rims are painted and can be treated with the same agents as the body.

Paintwork damage

Rectify minor paintwork damage with a touch-up pen before rust forms.

Have more extensive damage or rust areas repaired by a workshop.

Underbody

Some areas of the vehicle underbody have a PVC undercoating while other critical areas have a durable protective wax coating.

After the underbody is washed, check the underbody and have it waxed if necessary.

Bitumen/rubber materials could damage the PVC coating. Have underbody work carried out by a workshop.

Before and after winter, wash the underbody and have the protective wax coating checked.

Towing equipment

Do not clean the coupling ball bar with a steam-jet or high-pressure jet cleaner.

Interior care

Interior and upholstery

Only clean the vehicle interior, including the instrument panel fascia and panelling, with a dry cloth or interior cleaner.

The instrument panel should only be cleaned using a soft damp cloth.

Clean fabric upholstery with a vacuum cleaner and brush. Remove stains with an upholstery cleaner.

Clean seat belts with lukewarm water or interior cleaner.

Caution

Close Velcro fasteners as open Velcro fasteners on clothing could damage seat upholstery.

The same applies to clothing with sharp-edged objects, like zips or belts or studded jeans.

Plastic and rubber parts

Plastic and rubber parts can be cleaned with the same cleaner as used to clean the body. Use interior cleaner if necessary. Do not use any other agent. Avoid solvents and petrol in particular. Do not use high-pressure jet cleaners.

Care of the Head-up Display, Driver Information Center and Infotainment Display

Clean the inside of the windshield as needed to remove any dirt or film that could reduce the sharpness or clarity of the HUD image.

To clean the HUD lens and the displays, use a soft, clean cloth that has household glass cleaner or alcohol sprayed on it. Wipe the HUD lens and the displays gently, then dry it. Do not spray cleaner directly on the lens or the displays because the cleaner could leak into the unit.

If the panel or the displays are dusty, wipe them with a dry, soft cloth.

Do not wipe the panel with a hard cloth or use a volatile liquid such as thinner, it could scratch the surface or erase the characters on the buttons.

Caution

Never use abrasive cleaners when cleaning glass surfaces, you would scratch the glass.

Service and maintenance

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General information

Service information

Your car comes with a display which shows you when a service is due. The time at which this message appears is first of all based on driving conditions, such as cold starts, stop and go, towing, hill driving and a lot of idling. The distance travelled and the elapsed time since the last service set the limit between service occasions.

As a result, the intervals between services may vary considerably depending on how you drive and on external conditions. In order to ensure economical and safe vehicle operation and to maintain the value of your vehicle, it is of vital importance that all maintenance work is carried out at the proper intervals as specified. The detailed, up-to-date service schedule for your vehicle is covered in the Service and Warranty Booklet.

Service display ⇨ 77.

Service intervals

The maximum interval between service occasions is 10,000 miles or 1 year, whichever comes first.

Confirmations

Confirmation of service is recorded in the Service and Warranty Booklet. The date and mileage is completed with the stamp and signature of the servicing workshop.

Make sure that the Service and Warranty Booklet is completed correctly as continuous proof of service is essential if any warranty or goodwill claims are to be met, and is also a benefit when selling the vehicle.

Recommended fluids, lubricants and parts

Recommended fluids and lubricants

Only use products that have been tested and approved. Damage resulting from the use of non-approved materials will not be covered by the warranty.

Warning

Operating materials are hazardous and could be poisonous. Handle with care. Pay attention to information given on the containers.

Engine oil

Engine oil is identified by its quality and its viscosity. Quality is more important than viscosity when selecting which engine oil to use. The oil quality ensures e.g. engine cleanliness, wear protection and oil aging control, whereas viscosity grade gives information on the oil's thickness over a temperature range.

Engine oil quality

GM-LL-A-025 = Petrol engines

Alternative qualities if GM-LL-A-025 is not available:

ACEA-A3/B3 or A3/ = Petrol
B4 engines

Topping up engine oil

Engine oils of different manufacturers and brands can be mixed as long as they comply with the required engine oil quality and viscosity.

If engine oil of the required quality is not available, a maximum of 1 litre of ACEA C3 grade may be used (only

once between each oil change). The viscosity should be of one of the below listed viscosity grades.

Use of engine oil of only ACEA A1/B1 or only A5/B5 quality is prohibited, since it can cause long-term engine damage under certain operating conditions.

Additional engine oil additives

The use of additional engine oil additives could cause damage and invalidate the warranty.

Engine oil viscosity grades

Use only engine oil viscosity grades SAE 5W-30 or 5W-40, 0W-30 or 0W-40.

The SAE viscosity grade gives information of the thickness of the oil.

Multigrade oil is indicated by two figures. The first figure, followed by a W, indicates the low temperature viscosity and the second figure the high temperature viscosity.

Select the appropriate viscosity grade depending on the minimum ambient temperature. All of the recommended viscosity grades are suitable for high ambient temperatures.

- down to -13° F:
SAE 5W-30 or SAE 5W-40
- below -13° F:
SAE 0W-30 or SAE 0W-40

Coolant and antifreeze

Use only silicate-free long life coolant (LLC) antifreeze.

The system is factory filled with coolant designed for excellent corrosion protection and frost protection down to approx. - 18° F. This concentration should be maintained all year round. The use of additional coolant additives that intend to give additional corrosion protection or seal against minor leaks can cause function problems. Liability for consequences resulting from the use of additional coolant additives will be rejected.

Brake fluid

Only use high-performance brake fluid approved for the vehicle, consult your workshop.

Over time, brake fluid absorbs moisture which will reduce braking effectiveness. The brake fluid should therefore be replaced at the specified interval.

Brake fluid should be stored in a sealed container to avoid water absorption.

Ensure brake fluid does not become contaminated.

Power steering fluid

Use only Dextron VI, consult your workshop.

Technical data

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Vehicle identification

Vehicle Identification Number

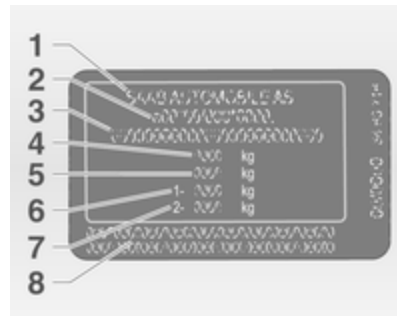


The Vehicle Identification Number is visible through the windscreen.

Identification plate



The identification label is located on the front left door frame.



Information on identification plate:

- 1 = Manufacturer
- 2 = Type approval number
- 3 = Vehicle Identification Number
- 4 = Permissible gross vehicle weight rating
- 5 = Permissible gross train weight
- 6 = Maximum permissible front axle load
- 7 = Maximum permissible rear axle load
- 8 = Vehicle-specific or country specific data

The combined total of front and rear axle loads must not exceed the permissible gross vehicle weight. For example, if the front axle is bearing its maximum permissible load, the rear axle can only bear a load that is equal to the gross vehicle weight minus the front axle load.

The technical data is determined in accordance with European Community standards. We reserve the right to make modifications. Specifications in the vehicle documents always have priority over those given in this manual.

Vehicle data
Engine data

Sales designation	Turbo6
Engine identifier code	A28NER
Number of cylinders	6
Piston displacement [cm ³]	2792
Engine power [kW]	221
at rpm	5500
Torque [Nm]	400
at rpm	2000 – 4500
Fuel type	Petrol
Octane rating RON	
recommended	98
possible	95
possible	91 ¹⁾
Oil consumption [l/1000 km]	0.6

1) Possible only if high engine load, full load or driving in mountainous terrain is avoided.

Performance

Sedan

Engine

A28NER

Top speed²⁾ [mph]

Automatic transmission

155

Fuel consumption - CO₂-emissions

Sedan

Engine

A28NER

urban [l/100 km]

extra-urban [l/100 km]

total [l/100 km]

CO₂ [g/km]

²⁾ The maximum speed indicated is achievable at kerb weight (without driver) plus 440 lbs payload. Optional equipment could reduce the specified maximum speed of the vehicle.

Vehicle weight

Kerb weight, basic model without any optional equipment

Saab 9-5 sedan	Engine	Automatic transmission
with air conditioning [lbs]	A28NER All wheel drive	4250

Vehicle dimensions

	Sedan 4-door
Length [inches]	197
Width without exterior mirrors [inches]	74
Width with two exterior mirrors [inches]	83
Height (without antenna) [inches]	58
Length of load compartment floor [inches]	44
Length of load compartment with folded rear seats [inches]	77
Load compartment width [inches]	41
Load compartment height [inches]	19

Sedan 4-door

Wheelbase [inches]

112

Turning circle diameter [ft]

39

Capacities

Engine oil

Engine**A28NER**

including Filter [l]

6.3

between MIN and MAX [l]

1.0

Fuel tank

Petrol, nominal capacity [l]

70

Tyre pressures

Tyre pressures for vehicles with all-wheel drive

Sedan

Engine	Tyres	Comfort with up to 3 people		ECO with up to 3 people		With full load	
		front [kPa/bar] ([psi])	rear [kPa/bar] ([psi])	front [kPa/bar] ([psi])	rear [kPa/bar] ([psi])	front [kPa/bar] ([psi])	rear [kPa/bar] ([psi])
A28NER	225/50 R17, 235/45 R18	270/2.7 (39)	270/2.7 (39)	–	–	280/2.8 (41)	320/3.2 (46)
	225/55 R17	280/2.8 (41)	280/2.8 (41)	300/3.0 (43)	300/3.0 (43)	280/2.8 (41)	330/3.3 (47)
	245/45 R18, 245/40 R18	280/2.8 (41)	280/2.8 (41)	310/3.1 (45)	310/3.1 (45)	290/2.9 (41)	330/3.3 (47)
	245/40 R19	260/2.6 (38)	260/2.6 (38)	310/3.1 (45)	310/3.1 (45)	280/2.8 (41)	310/3.1 (45)
	Temporary spare wheel	420/4.2 (61)	420/4.2 (61)	–	–	420/4.2 (61)	420/4.2 (61)

Customer information

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Reporting safety defects

Reporting safety defects to the United States Government

If you believe that your vehicle has a defect which could cause a crash or could cause injury or death, you should immediately inform the National Highway Traffic Safety Administration (NHTSA) in addition to notifying Saab Cars USA, Inc.

If NHTSA receives similar complaints, it may open an investigation, and if it finds that a safety defect exists in a group of vehicles, it may order a recall and remedy campaign. However, NHTSA cannot become involved in individual problems between you, your dealer, or Saab Cars USA, Inc.

To contact NHTSA, you may call the toll-free Vehicle Safety Hotline at 1-888-327-4236 (TTY: 1-800-424-9153; go to <http://www.safercar.gov>; or write to:

Administrator, NHTSA, 400 Seventh Street, SW., Washington D.C. 20590. You can also obtain other information about motor vehicle safety from <http://www.safercar.gov>.

Reporting safety defects to the Canadian Government

If you live in Canada, and believe that your vehicle has a safety defect, you should immediately notify Transport Canada, in addition to notifying General Motors of Canada Limited.

You may write to Transport Canada at Box 8880, Ottawa, Ontario, K1G 3J2.

In addition to notifying Transport Canada in a situation like this, we certainly hope you will notify us. In Canada, please call our Saab Customer Assistance Center at 1-800-263-1999.

Or write:

General Motors of Canada Limited
Customer Assistance Center,
1908 Colonel Sam Drive,
Oshawa, Ontario, L1H 8P7.

Vehicle data recording and privacy

Event data recorders

The vehicle has a number of sophisticated systems that monitor and control several vehicle data. Some data may be stored during regular operation to facilitate repair of detected malfunctions, other data is stored only in a crash or near crash event by systems commonly called event data recorders (EDR).

The systems may record data about the condition of the vehicle and how it was operated (e.g. engine speed, brake application, seat belt usage). To read this data special equipment and access to the vehicle is required. This will take place when the vehicle is serviced in a workshop. Some data is electronically fed into GM global diagnostic systems. The manufacturer will not access information about a crash event or share it with others except

- with the consent of the vehicle owner or, if the vehicle is leased, with the consent of the lessee,
- in response to an official request of police or similar government office,
- as part of the manufacturer's defense in case of legal proceedings,
- as required by law.

In addition, the manufacturer may use the collected or received data

- for the manufacturer's research needs,
- to make it available for research needs where appropriate confidentiality is maintained and need is shown,
- to share summary data which is not tied to a specific vehicle with other organisations for research purposes.



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